

**GORDIAN**<sup>®</sup>

# **Job Order Contract Construction Task Catalog<sup>®</sup>**

CSI Division 01-43 November 2023

**County of San Mateo**

**Mechanical**





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**41 Material Processing and Handling Equipment 1**

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## CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2023.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

## MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



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## The Unit Prices Include:

### LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

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- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

### EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

### MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

## Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

### Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

### The Adjustment Factors Include:

#### BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
  - home office overhead
  - insurance, bonds, and indemnification
  - project meetings, training, management and supervision
  - mobilization and close-out for the contract and each Job Order and
  - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

### **CONSTRUCTION RELATED COSTS:**

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

### **PRICE VARIATIONS:**

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

### **GENERAL COSTS:**

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:



## Using The Construction Task Catalog®

| Published Unit Price | X | Installation (or Demolition) Quantity | X | Appropriate Adjustment Factor |
|----------------------|---|---------------------------------------|---|-------------------------------|
|----------------------|---|---------------------------------------|---|-------------------------------|

- ☑ No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

## General Interpretations:

### WORKING HEIGHT:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

### FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

### ASSEMBLIES:

- ☑ Assembly unit prices take precedence over individual component pricing.

### TESTING:

- ☑ Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

### MISCELLANEOUS:

- ☑ For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- ☑ Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- ☑ Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- ☑ Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- ☑ Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

**SPECIFICATIONS:**

- Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

**Useful Information:**

**UNIT OF MEASURE DEFINITIONS:**

**ACR** – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

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Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

**MATERIAL WEIGHTS:**

**EARTHEN MATERIAL**

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

| Material                        | Material Weight (Lbs Per CY) |                             |           |
|---------------------------------|------------------------------|-----------------------------|-----------|
|                                 | In-place (Bank)              | Loose (Excavated Materials) | Compacted |
| Earth, Common (Average)         | 3170                         | 2536                        | 3520      |
| Sand                            | 2880                         | 2590                        | 3240      |
| Earth, Rock Mix. (75% E/ 25% R) | 3380                         | 2370                        | 3720      |
| Earth, Rock Mix. (50% E/50% R)  | 3750                         | 2710                        | 4000      |
| Earth, Rock Mix. (25% E/ 75% R) | 4120                         | 3140                        | 3680      |
| Gravel (Average)                | 3280                         | 2730                        | 3570      |
| Limestone                       | 4380                         | 2690                        | 3220      |
| Riprap Rock (Average)           | 4500                         | 2610                        | 3150      |
| Granite                         | 4540                         | 2640                        | 3170      |

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## Using The Construction Task Catalog®

|        |      |      |      |
|--------|------|------|------|
| Basalt | 4950 | 3020 | 3640 |
| Clay   | 3220 | 2150 | 3570 |
| Gneiss | 4550 | 2720 | 3180 |

**1 Ton** = 2000 Pounds = 907.185 Kilograms

**1 Yard** = 3 Feet = 0.9144 Meters

### BULK FACTORS FOR DEMOLITION:

The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

### CONVERSIONS:

**1 Acre** = 43,560 Square Feet = 4046.8 Square Meters

**1 Board Foot** = 12" x 12" x 1" = 144 Cubic Inches

**1 Centimeter** = 0.3937 Inches = 0.0328 Feet

**1 Cubic Foot** = 0.03704 Cubic Yards = 0.02832 Cubic Meters

**1 Cubic Meter** = 1.3080 Cubic Yards = 35.3147 Cubic Feet

**1 Cubic Yard** = 27 Cubic Feet = 0.7646 Cubic Meters

**1 Foot** = 12 Inches = 0.3048 Meters

**1 Inch** = 2.54 Centimeters = 0.0254 Meters

**1 Kilogram** = 2.2046 Pounds

**1 Kilometer** = 0.6214 Miles = 3280 Feet

**1 Meter** = 100 Centimeters = 3.2808 Feet

**1 Mile** = 5280 Feet = 1.6093 Kilometers

**1 Pound** = 0.4536 Kilograms

**1 Square Foot** = 144 Square Inches = .0929 Square Meters

**1 Square Meter** = 1.1960 Square Yards = 10.7639 Square Feet

**1 Square Yard** = 9 Square Feet = 0.8361 Square Meters

| Gage No. | Sheet Metal Thickness (inches) |                        |                       |                |
|----------|--------------------------------|------------------------|-----------------------|----------------|
|          | Steel Sheet                    | Galvanized Steel Sheet | Stainless Steel Sheet | Aluminum Sheet |
| 10       | .135                           | .138                   | .141                  |                |
| 11       | .120                           | .123                   | .125                  |                |
| 12       | .105                           | .108                   | .109                  |                |
| 13       | .090                           | .093                   | .094                  | .072           |
| 14       | .075                           | .079                   | .078                  | .064           |
| 15       | .067                           | .071                   | .070                  | .057           |
| 16       | .060                           | .064                   | .063                  | .051           |
| 17       | .054                           | .058                   | .056                  | .045           |
| 18       | .048                           | .052                   | .050                  | .040           |
| 19       | .042                           | .046                   | .044                  | .036           |
| 20       | .036                           | .040                   | .038                  | .032           |
| 21       | .033                           | .037                   | .034                  | .028           |
| 22       | .030                           | .034                   | .031                  | .025           |
| 23       | .027                           | .031                   | .028                  | .023           |
| 24       | .024                           | .028                   | .025                  | .020           |
| 25       | .021                           | .025                   | .022                  | .018           |
| 26       | .018                           | .022                   | .019                  | .017           |

### STANDARD GEOMETRY:

#### Circle

- Circumference =  $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area =  $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

#### Cylinder

- Volume =  $(\pi \text{ radius}^2) \text{height}$
- Surface Area =  $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{height}$

#### Sphere

- Volume =  $(4 \pi \text{ radius}^3) / 3$
- Surface Area =  $4 \pi \text{ radius}^2$

**$\pi = 3.14159$**

#### United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

## **TRADEMARKS**

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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| <b>General Requirements</b>  |  | <b>01</b> |
| Price and Payment Procedures |  | 01 20     |
| Unit Prices                  |  | 01 22     |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 01 General Requirements

### 01 20 Price and Payment Procedures <sup>(01)</sup>

#### 01 22 Unit Prices <sup>(01 20)</sup>

Note: Provide digital copies of photographs.

#### 01 22 16 Unit Price Payment <sup>(01 22)</sup>

##### 01 22 16 00-0001 Reimbursable Fees <sup>(01 22 16)</sup>

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

|                  |    |  |      |
|------------------|----|--|------|
| 01 22 16 00-0002 | EA | Reimbursable Fees.....   | 1.00 |
|                  |    | Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal. |      |

##### 01 22 16 00-0003 Negotiated Travel Costs <sup>(01 22 16)</sup>

Note: To be used only at the request of authorized personal for non-commuting travel costs.

|                  |    |   |      |
|------------------|----|---|------|
| 01 22 16 00-0004 | EA | Negotiated Travel Costs.....  | 1.00 |
|                  |    | Note: Supporting documentation must be included with each Work Order. |      |

#### 01 22 20 Wage Rates <sup>(01 22)</sup>

##### 01 22 20 00-0001 Local Labor/Wage Rates <sup>(01 22 20)</sup>

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

|                  |    |   |        |
|------------------|----|---|--------|
| 01 22 20 00-0002 | HR | Asbestos Removal Worker.....  | 86.30  |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 4.32   |
|                  |    | For Apprentice, Deduct  | -17.26 |
| 01 22 20 00-0003 | HR | Insulator.....  | 144.31 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 7.22   |
|                  |    | For Apprentice, Deduct  | -28.86 |
| 01 22 20 00-0004 | HR | Boilermaker.....  | 107.64 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 5.38   |
|                  |    | For Apprentice, Deduct  | -21.53 |
| 01 22 20 00-0005 | HR | Brick Layer.....  | 109.05 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 5.45   |
|                  |    | For Apprentice, Deduct  | -21.81 |
| 01 22 20 00-0006 | HR | Carpenter.....  | 125.77 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 6.29   |
|                  |    | For Apprentice, Deduct  | -25.15 |
| 01 22 20 00-0007 | HR | Carpet, Linoleum.....   | 121.84 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 6.09   |
|                  |    | For Apprentice, Deduct  | -24.37 |
| 01 22 20 00-0008 | HR | Cement Mason.....   | 90.34  |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 4.52   |
|                  |    | For Apprentice, Deduct  | -18.07 |
| 01 22 20 00-0009 | HR | Drywall Finisher.....   | 121.06 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 6.05   |
|                  |    | For Apprentice, Deduct  | -24.21 |
| 01 22 20 00-0010 | HR | Electrician.....  | 153.05 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 7.65   |
|                  |    | For Apprentice, Deduct  | -30.61 |
| 01 22 20 00-0011 | HR | Equipment Operator, Crane (Group 1-A).....  | 117.37 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
| 01 22 20 00-0012 | HR | Equipment Operator, Crane (Group 2-A).....  | 115.00 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 5.75   |
| 01 22 20 00-0013 | HR | Equipment Operator, Crane (Group 3-A).....  | 109.07 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
| 01 22 20 00-0014 | HR | Equipment Operator, Medium (Group 3).....   | 112.17 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
|                  |    | For Foreperson, Add   | 5.61   |
|                  |    | For Apprentice, Deduct  | -22.43 |
| 01 22 20 00-0015 | HR | Equipment Operator, Medium (Group 4).....   | 110.31 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |
| 01 22 20 00-0016 | HR | Equipment Operator, Medium (Group 5).....   | 108.61 |
|                  |    | Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |        |

|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 20 00-0017 HR Equipment Operator, Light (Group 6) .....                                 | 106.83                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.34                      |                         |
| For Apprentice, Deduct  | -21.37                    |                         |
| 01 22 20 00-0018 HR Equipment Operator, Light (Group 7) .....                                 | 105.30                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| 01 22 20 00-0019 HR Equipment Operator, Light (Group 8) .....                                 | 103.78                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| 01 22 20 00-0020 HR Glazier .....   | 115.78                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.79                      |                         |
| For Apprentice, Deduct  | -23.16                    |                         |
| 01 22 20 00-0021 HR Laborer .....   | 83.76                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| 01 22 20 00-0022 HR Lather.....   | 118.17                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.91                      |                         |
| For Apprentice, Deduct  | -23.63                    |                         |
| 01 22 20 00-0023 HR Marble Setter .....   | 118.17                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.91                      |                         |
| For Apprentice, Deduct  | -23.63                    |                         |
| 01 22 20 00-0024 HR Millwright.....   | 117.70                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.89                      |                         |
| For Apprentice, Deduct  | -23.54                    |                         |
| 01 22 20 00-0025 HR Mold Removal Worker .....   | 87.79                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 4.39                      |                         |
| For Apprentice, Deduct  | -17.56                    |                         |
| 01 22 20 00-0026 HR Painter, Ordinary.....  | 97.52                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 4.88                      |                         |
| For Apprentice, Deduct  | -19.50                    |                         |
| 01 22 20 00-0027 HR Painter, Structural Steel.....  | 100.90                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.05                      |                         |
| For Apprentice, Deduct  | -20.18                    |                         |
| 01 22 20 00-0028 HR Paperhanger.....  | 97.52                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 4.88                      |                         |
| For Apprentice, Deduct  | -19.50                    |                         |
| 01 22 20 00-0029 HR Pile Drivers .....  | 127.20                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 6.36                      |                         |
| For Apprentice, Deduct  | -25.44                    |                         |
| 01 22 20 00-0030 HR Plasterer .....   | 109.55                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.48                      |                         |
| For Apprentice, Deduct  | -21.91                    |                         |
| 01 22 20 00-0031 HR Plumber .....   | 151.74                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 7.59                      |                         |
| For Apprentice, Deduct  | -30.35                    |                         |
| 01 22 20 00-0032 HR Powderman.....  | 88.15                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 4.41                      |                         |
| For Apprentice, Deduct  | -17.63                    |                         |
| 01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker .....                        | 107.91                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.40                      |                         |
| For Apprentice, Deduct  | -21.58                    |                         |
| 01 22 20 00-0034 HR Roofer, Composite.....  | 116.37                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.82                      |                         |
| For Apprentice, Deduct  | -23.27                    |                         |
| 01 22 20 00-0035 HR Roofer, Tile/Slate.....   | 112.76                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.64                      |                         |
| For Apprentice, Deduct  | -22.55                    |                         |
| 01 22 20 00-0036 HR Sheet Metal Worker .....  | 152.29                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 7.61                      |                         |
| For Apprentice, Deduct  | -30.46                    |                         |
| 01 22 20 00-0037 HR Sprinkler Installer.....  | 142.06                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 7.10                      |                         |
| For Apprentice, Deduct  | -28.41                    |                         |
| 01 22 20 00-0038 HR Steam / Pipe Fitter .....   | 151.74                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 7.59                      |                         |
| For Apprentice, Deduct  | -30.35                    |                         |
| 01 22 20 00-0039 HR Stone Mason.....  | 109.05                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. |                           |                         |
| For Foreperson, Add   | 5.45                      |                         |
| For Apprentice, Deduct  | -21.81                    |                         |





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| <b>General Requirements</b>  |  | <b>01</b> |
| Price and Payment Procedures |  | 01 20     |
| Unit Prices                  |  | 01 22     |

10

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 20 00-0040 HR Iron Worker (Structural) .....   | 111.60                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| For Foreperson, Add  | 5.58                      |                         |
| For Apprentice, Deduct   | -22.32                    |                         |
| 01 22 20 00-0041 HR Tile Layer .....   | 100.90                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| For Foreperson, Add  | 5.05                      |                         |
| For Apprentice, Deduct   | -20.18                    |                         |
| 01 22 20 00-0042 HR Terrazzo Worker .....  | 110.24                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| For Foreperson, Add  | 5.51                      |                         |
| For Apprentice, Deduct   | -22.05                    |                         |
| 01 22 20 00-0043 HR Truck Driver, Light (Group 1) .....  | 90.04                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| For Foreperson, Add  | 4.50                      |                         |
| For Apprentice, Deduct   | -18.01                    |                         |
| 01 22 20 00-0044 HR Truck Driver, Medium (Group 2) .....   | 90.47                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| 01 22 20 00-0045 HR Truck Driver, Heavy (Group 3) .....  | 90.90                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| For Foreperson, Add  | 4.55                      |                         |
| For Apprentice, Deduct   | -18.18                    |                         |
| 01 22 20 00-0046 HR Truck Driver, Heavy (Group 4) .....  | 91.40                     |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| 01 22 20 00-0047 HR Class I Diver .....  | 209.51                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| 01 22 20 00-0048 HR Class III Diver Tender .....   | 138.83                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| 01 22 20 00-0049 HR D1 Certified Welder .....  | 118.96                    |                         |
| Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.  |                           |                         |
| <b>01 22 20 00-0050 Rates For Services (01 22 20)</b>  |                           |                         |
| 01 22 20 00-0051 HR Watch/Guard Person, Unarmed .....  | 35.33                     |                         |
| 01 22 20 00-0052 HR Watch/Guard Person, Armed .....  | 44.36                     |                         |
| 01 22 20 00-0053 HR Surveyor (Rod Person) .....  | 109.63                    |                         |
| 01 22 20 00-0054 HR Senior Surveyor (Party Chief) .....  | 120.74                    |                         |
| 01 22 20 00-0055 HR Surveyor (Instrument person) .....   | 114.01                    |                         |
| 01 22 20 00-0056 HR On-Site Certified Materials Testing Technician .....   | 82.92                     |                         |
| 01 22 20 00-0057 HR Certified Industrial Hygienist .....   | 133.60                    |                         |
| 01 22 20 00-0058 MI Mileage For Professional Services (Engineering, Surveying, Etcetera) .....   | 0.66                      |                         |
| Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.  |                           |                         |
| 01 22 20 00-0059 HR Fire Watch Laborer .....   | 83.76                     |                         |
| Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation. |                           |                         |
| <b>01 22 20 00-0060 Rates For Project Management Services (01 22 20)</b>   |                           |                         |
| 01 22 20 00-0061 HR Project Manager .....  | 161.25                    |                         |
| <b>01 22 20 00-0062 Rates For Architectural And Engineering Services (01 22 20)</b>  |                           |                         |
| Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.  |                           |                         |
| 01 22 20 00-0063 HR Principal Architect .....  | 225.00                    |                         |
| 01 22 20 00-0064 HR Senior Architect .....   | 200.00                    |                         |
| 01 22 20 00-0065 HR Architect .....  | 150.00                    |                         |
| 01 22 20 00-0066 HR Principal Engineer .....   | 222.50                    |                         |
| 01 22 20 00-0067 HR Senior Engineer .....  | 172.50                    |                         |
| 01 22 20 00-0068 HR Engineer .....   | 135.00                    |                         |
| 01 22 20 00-0069 HR Draft Person .....   | 80.00                     |                         |
| <b>01 22 20 00-0070 Rates For Traffic Control (01 22 20)</b>   |                           |                         |
| 01 22 20 00-0071 DAY Pilot Vehicle With Driver .....   | 1,067.13                  |                         |
| Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.   |                           |                         |
| 01 22 20 00-0072 HR Flagperson For Traffic Control .....   | 83.76                     |                         |
| <b>01 22 20 00-0073 Mobilize Equipment (01 22 20)</b>  |                           |                         |
| 01 22 20 00-0074 HR Escort Vehicle With Driver .....   | 96.38                     |                         |
| 01 22 20 00-0075 HR Transport Vehicle With Driver .....  | 139.03                    |                         |
| <b>01 22 23 Equipment Usage (01 22)</b>  |                           |                         |
| Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0070 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization   |                           |                         |

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|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

and demobilization.

|                  |   |  |
|------------------|---|--|
| 01 22 23 00-0001 | <b>Aerial Equipment</b> <small>(01 22 23)</small>   |  |
| 01 22 23 00-0002 | <b>Man Lifts</b> <small>(01 22 23 00-0001)</small><br>Note: Excludes operator, delivery, set-up, and removal.   |  |
| 01 22 23 00-0003 | <b>Telescoping Boom Man Lifts With Platform</b> <small>(01 22 23 00-0002)</small>   |  |
| 01 22 23 00-0004 | <b>Engine Powered, Telescoping Boom Man Lifts With Platform</b> <small>(01 22 23 00-0003)</small><br>Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.             |  |
| 01 22 23 00-0005 | DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform .....489.86<br><i>For Four-Wheel Drive, Add</i> ..... 110.22  |  |
| 01 22 23 00-0006 | WK 40' Engine Powered, Telescoping Boom Man Lift With Platform ..... 1,232.56<br><i>For Four-Wheel Drive, Add</i> ..... 277.33  |  |
| 01 22 23 00-0007 | MO 40' Engine Powered, Telescoping Boom Man Lift With Platform ..... 2,765.35<br><i>For Four-Wheel Drive, Add</i> ..... 622.20  |  |
| 01 22 23 00-0008 | DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform ..... 718.99<br><i>For Four-Wheel Drive, Add</i> ..... 161.77   |  |
| 01 22 23 00-0009 | WK 60' Engine Powered, Telescoping Boom Man Lift With Platform ..... 1,714.52<br><i>For Four-Wheel Drive, Add</i> ..... 385.77  |  |
| 01 22 23 00-0010 | MO 60' Engine Powered, Telescoping Boom Man Lift With Platform ..... 3,752.98<br><i>For Four-Wheel Drive, Add</i> ..... 844.42  |  |
| 01 22 23 00-0011 | DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform ..... 1,398.48<br><i>For Four-Wheel Drive, Add</i> ..... 314.66   |  |
| 01 22 23 00-0012 | WK 80' Engine Powered, Telescoping Boom Man Lift With Platform ..... 3,389.53<br><i>For Four-Wheel Drive, Add</i> ..... 762.64  |  |
| 01 22 23 00-0013 | MO 80' Engine Powered, Telescoping Boom Man Lift With Platform ..... 7,110.90<br><i>For Four-Wheel Drive, Add</i> ..... 1,599.95  |  |
| 01 22 23 00-0014 | DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform ..... 1,991.05<br><i>For Four-Wheel Drive, Add</i> ..... 447.99  |  |
| 01 22 23 00-0015 | WK 110' Engine Powered, Telescoping Boom Man Lift With Platform ..... 4,794.33<br><i>For Four-Wheel Drive, Add</i> ..... 1,078.72   |  |
| 01 22 23 00-0016 | MO 110' Engine Powered, Telescoping Boom Man Lift With Platform ..... 11,946.31<br><i>For Four-Wheel Drive, Add</i> ..... 2,687.92  |  |
| 01 22 23 00-0017 | DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform ..... 2,425.61<br><i>For Four-Wheel Drive, Add</i> ..... 545.76  |  |
| 01 22 23 00-0018 | WK 120' Engine Powered, Telescoping Boom Man Lift With Platform ..... 6,186.48<br><i>For Four-Wheel Drive, Add</i> ..... 1,391.96   |  |
| 01 22 23 00-0019 | MO 120' Engine Powered, Telescoping Boom Man Lift With Platform ..... 14,063.78<br><i>For Four-Wheel Drive, Add</i> ..... 3,164.35  |  |
| 01 22 23 00-0020 | <b>Articulating (Up/Over) Boom Man Lifts With Platform</b> <small>(01 22 23 00-0002)</small>  |  |
| 01 22 23 00-0021 | <b>Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform</b> <small>(01 22 23 00-0020)</small><br>Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces. |  |
| 01 22 23 00-0022 | DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform .....434.36  |  |
| 01 22 23 00-0023 | WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,089.86  |  |
| 01 22 23 00-0024 | MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,621.97  |  |
| 01 22 23 00-0025 | DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 552.82   |  |
| 01 22 23 00-0026 | WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,208.32  |  |
| 01 22 23 00-0027 | MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,999.47  |  |
| 01 22 23 00-0028 | DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 710.78   |  |
| 01 22 23 00-0029 | WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,642.68  |  |
| 01 22 23 00-0030 | MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 3,672.34  |  |
| 01 22 23 00-0031 | DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,239.91   |  |
| 01 22 23 00-0032 | WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,922.08  |  |
| 01 22 23 00-0033 | MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 7,106.17  |  |
| 01 22 23 00-0034 | DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,408.74  |  |
| 01 22 23 00-0035 | WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 5,686.20   |  |
| 01 22 23 00-0036 | MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform ..... 13,899.60  |  |
| 01 22 23 00-0037 | <b>Electric, Articulating (Up/Over) Boom Man Lifts With Platform</b> <small>(01 22 23 00-0020)</small><br>Note: For use on paved surfaces.  |  |
| 01 22 23 00-0038 | DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 434.36   |  |
| 01 22 23 00-0039 | WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,089.86  |  |
| 01 22 23 00-0040 | MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,621.97  |  |
| 01 22 23 00-0041 | DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 434.36   |  |
| 01 22 23 00-0042 | WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,089.86  |  |
| 01 22 23 00-0043 | MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,621.97  |  |
| 01 22 23 00-0044 | DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 537.03   |  |
| 01 22 23 00-0045 | WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,160.93  |  |
| 01 22 23 00-0046 | MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,882.59  |  |
| 01 22 23 00-0047 | DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 537.03   |  |
| 01 22 23 00-0048 | WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 1,160.93  |  |
| 01 22 23 00-0049 | MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform ..... 2,882.59  |  |
| 01 22 23 00-0050 | <b>Platform Lifts</b> <small>(01 22 23 00-0001)</small><br>Note: Excludes operator, delivery, set-up, and removal.  |  |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
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| <b>01 22 23 00-0051</b> | <b>Electric, Scissor Platform Lifts</b> (01 22 23 00-0050) |          |
|                         | Note: For use on paved surfaces.                           |          |
| 01 22 23 00-0052        | DAY 17' Electric, Scissor Platform Lift .....              | 182.64   |
| 01 22 23 00-0053        | WK 17' Electric, Scissor Platform Lift .....               | 365.29   |
| 01 22 23 00-0054        | MO 17' Electric, Scissor Platform Lift .....               | 747.18   |
| 01 22 23 00-0055        | DAY 20' Electric, Scissor Platform Lift .....              | 199.25   |
| 01 22 23 00-0056        | WK 20' Electric, Scissor Platform Lift .....               | 398.50   |
| 01 22 23 00-0057        | MO 20' Electric, Scissor Platform Lift .....               | 796.99   |
| 01 22 23 00-0058        | DAY 25' Electric, Scissor Platform Lift .....              | 257.36   |
| 01 22 23 00-0059        | WK 25' Electric, Scissor Platform Lift .....               | 514.72   |
| 01 22 23 00-0060        | MO 25' Electric, Scissor Platform Lift .....               | 1,104.17 |
| 01 22 23 00-0061        | DAY 30' Electric, Scissor Platform Lift .....              | 332.08   |
| 01 22 23 00-0062        | WK 30' Electric, Scissor Platform Lift .....               | 655.86   |
| 01 22 23 00-0063        | MO 30' Electric, Scissor Platform Lift .....               | 1,452.85 |
| 01 22 23 00-0064        | DAY 33' Electric, Scissor Platform Lift .....              | 356.99   |
| 01 22 23 00-0065        | WK 33' Electric, Scissor Platform Lift .....               | 697.37   |
| 01 22 23 00-0066        | MO 33' Electric, Scissor Platform Lift .....               | 1,577.38 |
| 01 22 23 00-0067        | DAY 40' Electric, Scissor Platform Lift .....              | 464.91   |
| 01 22 23 00-0068        | WK 40' Electric, Scissor Platform Lift .....               | 1,153.98 |
| 01 22 23 00-0069        | MO 40' Electric, Scissor Platform Lift .....               | 3,212.87 |

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| <b>01 22 23 00-0070</b> | <b>Engine Powered, Scissor Platform Lifts</b> (01 22 23 00-0050)   |          |
|                         | Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces. |          |
| 01 22 23 00-0071        | DAY 25' Engine Powered, Scissor Platform Lift .....  | 431.82   |
|                         | <i>For Four-Wheel Drive, Add</i>   | 86.36    |
| 01 22 23 00-0072        | WK 25' Engine Powered, Scissor Platform Lift .....   | 844.45   |
|                         | <i>For Four-Wheel Drive, Add</i>   | 168.89   |
| 01 22 23 00-0073        | MO 25' Engine Powered, Scissor Platform Lift .....   | 2,063.14 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 412.63   |
| 01 22 23 00-0074        | DAY 33' Engine Powered, Scissor Platform Lift .....  | 441.42   |
|                         | <i>For Four-Wheel Drive, Add</i>   | 88.28    |
| 01 22 23 00-0075        | WK 33' Engine Powered, Scissor Platform Lift .....   | 1,007.58 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 201.52   |
| 01 22 23 00-0076        | MO 33' Engine Powered, Scissor Platform Lift .....   | 2,207.08 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 441.42   |
| 01 22 23 00-0077        | DAY 40' Engine Powered, Scissor Platform Lift .....  | 489.40   |
|                         | <i>For Four-Wheel Drive, Add</i>   | 97.88    |
| 01 22 23 00-0078        | WK 40' Engine Powered, Scissor Platform Lift .....   | 1,122.73 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 224.55   |
| 01 22 23 00-0079        | MO 40' Engine Powered, Scissor Platform Lift .....   | 2,494.96 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 498.99   |
| 01 22 23 00-0080        | DAY 43' Engine Powered, Scissor Platform Lift .....  | 518.18   |
|                         | <i>For Four-Wheel Drive, Add</i>   | 103.64   |
| 01 22 23 00-0081        | WK 43' Engine Powered, Scissor Platform Lift .....   | 1,209.10 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 241.82   |
| 01 22 23 00-0082        | MO 43' Engine Powered, Scissor Platform Lift .....   | 2,974.76 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 594.95   |
| 01 22 23 00-0083        | DAY 50' Engine Powered, Scissor Platform Lift .....  | 969.20   |
|                         | <i>For Four-Wheel Drive, Add</i>   | 193.84   |
| 01 22 23 00-0084        | WK 50' Engine Powered, Scissor Platform Lift .....   | 2,130.31 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 426.06   |
| 01 22 23 00-0085        | MO 50' Engine Powered, Scissor Platform Lift .....   | 5,239.42 |
|                         | <i>For Four-Wheel Drive, Add</i>   | 1,047.88 |

|                         |  |          |
|-------------------------|--|----------|
| <b>01 22 23 00-0086</b> | <b>Personnel Lifts</b> (01 22 23 00-0001)  |          |
|                         | Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces. |          |
| 01 22 23 00-0087        | DAY 24', Push-Type, Electric Single Man Personnel Lift .....   | 162.30   |
| 01 22 23 00-0088        | WK 24', Push-Type, Electric Single Man Personnel Lift .....  | 459.84   |
| 01 22 23 00-0089        | MO 24', Push-Type, Electric Single Man Personnel Lift .....  | 928.70   |
| 01 22 23 00-0090        | DAY 30', Push-Type, Electric Single Man Personnel Lift .....   | 225.41   |
| 01 22 23 00-0091        | WK 30', Push-Type, Electric Single Man Personnel Lift .....  | 477.87   |
| 01 22 23 00-0092        | MO 30', Push-Type, Electric Single Man Personnel Lift .....  | 1,622.97 |
| 01 22 23 00-0093        | DAY 36', Push-Type, Electric Single Man Personnel Lift .....   | 378.69   |
| 01 22 23 00-0094        | WK 36', Push-Type, Electric Single Man Personnel Lift .....  | 919.68   |
| 01 22 23 00-0095        | MO 36', Push-Type, Electric Single Man Personnel Lift .....  | 2,686.92 |
| 01 22 23 00-0096        | DAY 40', Push-Type, Electric Single Man Personnel Lift .....   | 405.74   |
| 01 22 23 00-0097        | WK 40', Push-Type, Electric Single Man Personnel Lift .....  | 1,009.85 |
| 01 22 23 00-0098        | MO 40', Push-Type, Electric Single Man Personnel Lift .....  | 3,038.56 |
| 01 22 23 00-0099        | DAY 15', Self-Propelled, Electric Single Man Personnel Lift .....  | 216.40   |
| 01 22 23 00-0100        | WK 15', Self-Propelled, Electric Single Man Personnel Lift .....   | 432.79   |
| 01 22 23 00-0101        | MO 15', Self-Propelled, Electric Single Man Personnel Lift .....   | 865.58   |
| 01 22 23 00-0102        | DAY 20', Self-Propelled, Electric Single Man Personnel Lift .....  | 216.40   |
| 01 22 23 00-0103        | WK 20', Self-Propelled, Electric Single Man Personnel Lift .....   | 432.79   |
| 01 22 23 00-0104        | MO 20', Self-Propelled, Electric Single Man Personnel Lift .....   | 899.85   |

|                         |   |  |
|-------------------------|---|--|
| <b>01 22 23 00-0105</b> | <b>Bucket Trucks</b> (01 22 23 00-0001)                   |  |
|                         | Note: Includes full-time operator, delivery, and removal. |  |

|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0106 DAY 29' To 33' Bucket Truck With Full-Time Operator .....  | 1,426.10                  |                         |
| For Equipment Without Operator, Deduct .....  | -727.16                   |                         |
| 01 22 23 00-0107 WK 29' To 33' Bucket Truck With Full-Time Operator .....   | 5,732.63                  |                         |
| For Equipment Without Operator, Deduct .....  | -3,635.81                 |                         |
| 01 22 23 00-0108 MO 29' To 33' Bucket Truck With Full-Time Operator .....   | 21,092.55                 |                         |
| For Equipment Without Operator, Deduct .....  | -15,755.19                |                         |
| 01 22 23 00-0109 DAY 38' To 41' Bucket Truck With Full-Time Operator .....  | 1,515.06                  |                         |
| For Equipment Without Operator, Deduct .....  | -727.16                   |                         |
| 01 22 23 00-0110 WK 38' To 41' Bucket Truck With Full-Time Operator .....   | 6,018.56                  |                         |
| For Equipment Without Operator, Deduct .....  | -3,635.81                 |                         |
| 01 22 23 00-0111 MO 38' To 41' Bucket Truck With Full-Time Operator .....   | 21,855.03                 |                         |
| For Equipment Without Operator, Deduct .....  | -15,755.19                |                         |
| 01 22 23 00-0112 DAY 45' To 48' Bucket Truck With Full-Time Operator .....  | 1,743.80                  |                         |
| For Equipment Without Operator, Deduct .....  | -727.16                   |                         |
| 01 22 23 00-0113 WK 45' To 48' Bucket Truck With Full-Time Operator .....   | 6,431.57                  |                         |
| For Equipment Without Operator, Deduct .....  | -3,635.81                 |                         |
| 01 22 23 00-0114 MO 45' To 48' Bucket Truck With Full-Time Operator .....   | 22,744.59                 |                         |
| For Equipment Without Operator, Deduct .....  | -15,755.19                |                         |
| 01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator .....   | 2,252.12                  |                         |
| For Equipment Without Operator, Deduct .....  | -727.16                   |                         |
| 01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator .....  | 8,083.61                  |                         |
| For Equipment Without Operator, Deduct .....  | -3,635.81                 |                         |
| 01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator .....  | 27,192.39                 |                         |
| For Equipment Without Operator, Deduct .....  | -15,755.19                |                         |
| 01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator .....   | 2,506.28                  |                         |
| For Equipment Without Operator, Deduct .....  | -727.16                   |                         |
| 01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator .....  | 8,973.17                  |                         |
| For Equipment Without Operator, Deduct .....  | -3,635.81                 |                         |
| 01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator .....  | 30,369.39                 |                         |
| For Equipment Without Operator, Deduct .....  | -15,755.19                |                         |
| <b>01 22 23 00-0121 Air Equipment</b> <small>(01 22 23)</small>   |                           |                         |
| <b>01 22 23 00-0122 Air Compressors</b> <small>(01 22 23 00-0121)</small>   |                           |                         |
| Note: Includes delivery, set-up, and removal. Excludes operator.  |                           |                         |
| 01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor .....   | 175.84                    |                         |
| 01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor .....  | 527.51                    |                         |
| 01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor .....  | 1,465.31                  |                         |
| 01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor .....   | 211.00                    |                         |
| 01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor .....  | 621.29                    |                         |
| 01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor .....  | 1,758.38                  |                         |
| 01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor .....   | 281.34                    |                         |
| 01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor .....  | 633.02                    |                         |
| 01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor .....  | 1,394.98                  |                         |
| 01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor .....   | 398.56                    |                         |
| 01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor .....  | 1,008.14                  |                         |
| 01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor .....  | 2,403.11                  |                         |
| 01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor .....   | 886.22                    |                         |
| 01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor .....  | 2,133.50                  |                         |
| 01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor .....  | 5,317.33                  |                         |
| 01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor .....   | 1,066.75                  |                         |
| 01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor .....  | 2,625.84                  |                         |
| 01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor .....  | 6,447.38                  |                         |
| 01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor .....   | 1,066.75                  |                         |
| 01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor .....  | 2,625.84                  |                         |
| 01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor .....  | 6,447.38                  |                         |
| 01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor .....   | 1,242.58                  |                         |
| 01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor .....  | 2,785.27                  |                         |
| 01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor .....  | 7,427.38                  |                         |
| 01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor .....   | 1,547.37                  |                         |
| 01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor .....  | 3,481.58                  |                         |
| 01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor .....  | 9,284.22                  |                         |
| <b>01 22 23 00-0150 Portable Negative Air Machines</b> <small>(01 22 23 00-0121)</small>  |                           |                         |
| Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct. |                           |                         |
| 01 22 23 00-0151 DAY Up To 2,000 CFM, Portable Negative Air Machine .....   | 120.46                    |                         |
| 01 22 23 00-0152 WK Up To 2,000 CFM, Portable Negative Air Machine .....  | 494.73                    |                         |
| 01 22 23 00-0153 MO Up To 2,000 CFM, Portable Negative Air Machine .....  | 1,494.94                  |                         |
| 01 22 23 00-0154 EA First Stage Pre-Filter For Portable Negative Air Machines .....   | 15.71                     |                         |
| 01 22 23 00-0155 EA Second Stage Pre-Filter For Portable Negative Air Machines .....  | 38.73                     |                         |
| 01 22 23 00-0156 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines .....  | 208.37                    |                         |
| 01 22 23 00-0157 LF Flexible Exhaust Duct For Portable Negative Air Machines .....  | 2.32                      |                         |
| <b>01 22 23 00-0158 Portable Air Scrubbers</b> <small>(01 22 23 00-0121)</small>  |                           |                         |
| Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.                |                           |                         |
| 01 22 23 00-0159 DAY Up To 1,000 CFM, Portable Air Scrubber .....   | 100.57                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0160 WK Up To 1,000 CFM, Portable Air Scrubber .....  | 418.04                    |                         |
| 01 22 23 00-0161 MO Up To 1,000 CFM, Portable Air Scrubber .....  | 1,157.17                  |                         |
| 01 22 23 00-0162 DAY >1,000 to 2,000 CFM, Portable Air Scrubber .....   | 127.23                    |                         |
| 01 22 23 00-0163 WK >1,000 to 2,000 CFM, Portable Air Scrubber .....  | 527.09                    |                         |
| 01 22 23 00-0164 MO >1,000 to 2,000 CFM, Portable Air Scrubber .....  | 1,544.92                  |                         |
| 01 22 23 00-0165 DAY >2,000 To 5,000 CFM, Portable Air Scrubber.....  | 163.58                    |                         |
| 01 22 23 00-0166 WK >2,000 To 5,000 CFM, Portable Air Scrubber.....   | 696.73                    |                         |
| 01 22 23 00-0167 MO >2,000 To 5,000 CFM, Portable Air Scrubber.....   | 1,950.84                  |                         |
| 01 22 23 00-0168 EA First Stage Pre-Filter For Portable Air Scrubbers .....   | 22.98                     |                         |
| 01 22 23 00-0169 EA Second Stage Pre-Filter For Portable Air Scrubbers .....  | 32.67                     |                         |
| 01 22 23 00-0170 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers..... | 353.77                    |                         |
| <br><b>01 22 23 00-0171    <b>Compaction And Paving Equipment</b></b> <small>(01 22 23)</small>                                   |                           |                         |
| <b>01 22 23 00-0172    <b>Pavers And Rollers</b></b> <small>(01 22 23 00-0171)</small>  |                           |                         |
| <i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>   |                           |                         |
| <b>01 22 23 00-0173    <b>Pavers</b></b> <small>(01 22 23 00-0172)</small>  |                           |                         |
| 01 22 23 00-0174 DAY 10' Wide Paving Machine With Full-Time Operator .....  | 4,302.90                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0175 WK 10' Wide Paving Machine With Full-Time Operator .....   | 18,108.99                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0176 MO 10' Wide Paving Machine With Full-Time Operator .....   | 68,094.47                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| <br><b>01 22 23 00-0177    <b>Ride-On Self-Propelled, Rubber Tire Rollers</b></b> <small>(01 22 23 00-0172)</small>               |                           |                         |
| 01 22 23 00-0178 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....               | 1,296.88                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0179 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....                | 5,695.25                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0180 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....                | 22,723.56                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| 01 22 23 00-0181 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....                     | 1,451.07                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0182 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....                      | 6,841.84                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0183 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator .....                      | 24,454.66                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| 01 22 23 00-0184 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator .....                    | 1,458.08                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0185 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator .....                     | 6,386.28                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0186 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator .....                     | 24,791.07                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| <br><b>01 22 23 00-0187    <b>Ride-On Self-Propelled, Padfoot Rollers</b></b> <small>(01 22 23 00-0172)</small>                   |                           |                         |
| 01 22 23 00-0188 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....            | 1,359.96                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0189 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....             | 5,769.54                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0190 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....             | 23,151.08                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| 01 22 23 00-0191 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....            | 1,654.32                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0192 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....             | 6,365.26                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0193 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....             | 25,029.35                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| 01 22 23 00-0194 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....     | 1,724.40                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0195 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....      | 6,806.79                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |
| 01 22 23 00-0196 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....      | 26,262.85                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -19,443.58              |
| <br><b>01 22 23 00-0197    <b>Towed, Padfoot Rollers</b></b> <small>(01 22 23 00-0172)</small>                                    |                           |                         |
| 01 22 23 00-0198 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller .....   | 133.16                    |                         |
| 01 22 23 00-0199 WK 48" Wide, 40" Diameter, Towed Padfoot Roller .....  | 385.47                    |                         |
| 01 22 23 00-0200 MO 48" Wide, 40" Diameter, Towed Padfoot Roller .....  | 1,135.38                  |                         |
| 01 22 23 00-0201 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller .....   | 168.20                    |                         |
| 01 22 23 00-0202 WK 60" Wide, 60" Diameter, Towed Padfoot Roller .....  | 469.57                    |                         |
| 01 22 23 00-0203 MO 60" Wide, 60" Diameter, Towed Padfoot Roller .....  | 1,997.42                  |                         |
| <br><b>01 22 23 00-0204    <b>Static Rollers</b></b> <small>(01 22 23 00-0172)</small>  |                           |                         |
| 01 22 23 00-0205 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator .....   | 1,395.00                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -897.40                 |
| 01 22 23 00-0206 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator .....  | 6,070.90                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -4,486.98               |

|           |              |                                     |
|-----------|--------------|-------------------------------------|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>         |
|           | <b>01 20</b> | <b>Price and Payment Procedures</b> |
|           | <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0207 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....<br><i>For Equipment Without Operator, Deduct</i>   | 24,139.28<br>-19,443.58   |                         |
| 01 22 23 00-0208 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 1,549.19<br>-897.40       |                         |
| 01 22 23 00-0209 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 6,491.41<br>-4,486.98     |                         |
| 01 22 23 00-0210 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 25,302.69<br>-19,443.58   |                         |
| <b>01 22 23 00-0211 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers</b> <small>(01 22 23 00-0172)</small>  |                           |                         |
| 01 22 23 00-0212 DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,170.73<br>-897.40       |                         |
| 01 22 23 00-0213 WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 5,285.95<br>-4,486.98     |                         |
| 01 22 23 00-0214 MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 21,546.13<br>-19,443.58   |                         |
| 01 22 23 00-0215 DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,275.86<br>-897.40       |                         |
| 01 22 23 00-0216 WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 5,601.33<br>-4,486.98     |                         |
| 01 22 23 00-0217 MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 22,387.15<br>-19,443.58   |                         |
| 01 22 23 00-0218 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 1,345.94<br>-897.40       |                         |
| 01 22 23 00-0219 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 5,811.59<br>-4,486.98     |                         |
| 01 22 23 00-0220 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 22,947.83<br>-19,443.58   |                         |
| 01 22 23 00-0221 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 1,437.05<br>-897.40       |                         |
| 01 22 23 00-0222 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 6,077.91<br>-4,486.98     |                         |
| 01 22 23 00-0223 MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 23,641.67<br>-19,443.58   |                         |
| 01 22 23 00-0224 DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,619.28<br>-897.40       |                         |
| 01 22 23 00-0225 WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 6,610.56<br>-4,486.98     |                         |
| 01 22 23 00-0226 MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 25,050.38<br>-19,443.58   |                         |
| <b>01 22 23 00-0227 Steel Roadway Plates</b> <small>(01 22 23 00-0171)</small>   |                           |                         |
| Note: 3 day minimum. Excludes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0228 for placement (set-up) from truck and removal from ground (load on truck), 01 71 13 00-0001 for material delivery on truck. |                           |                         |
| 01 22 23 00-0228 EA Placement And Removal Of Steel Roadway Plates.....   | 55.18                     |                         |
| 01 22 23 00-0229 DAY 1" x 4' x 8' Steel Plate .....  | 44.12                     |                         |
| 01 22 23 00-0230 WK 1" x 4' x 8' Steel Plate .....   | 104.18                    |                         |
| 01 22 23 00-0231 MO 1" x 4' x 8' Steel Plate .....   | 137.10                    |                         |
| 01 22 23 00-0232 DAY 1" x 4' x 10' Steel Plate .....   | 58.83                     |                         |
| 01 22 23 00-0233 WK 1" x 4' x 10' Steel Plate .....  | 132.36                    |                         |
| 01 22 23 00-0234 MO 1" x 4' x 10' Steel Plate .....  | 161.78                    |                         |
| 01 22 23 00-0235 DAY 1" x 5' x 10' Steel Plate .....   | 61.28                     |                         |
| 01 22 23 00-0236 WK 1" x 5' x 10' Steel Plate .....  | 138.49                    |                         |
| 01 22 23 00-0237 MO 1" x 5' x 10' Steel Plate .....  | 367.68                    |                         |
| 01 22 23 00-0238 DAY 1" x 6' x 8' Steel Plate .....  | 39.22                     |                         |
| 01 22 23 00-0239 WK 1" x 6' x 8' Steel Plate .....   | 88.24                     |                         |
| 01 22 23 00-0240 MO 1" x 6' x 8' Steel Plate .....   | 235.32                    |                         |
| 01 22 23 00-0241 DAY 1" x 6' x 10' Steel Plate .....   | 73.54                     |                         |
| 01 22 23 00-0242 WK 1" x 6' x 10' Steel Plate .....  | 96.82                     |                         |
| 01 22 23 00-0243 MO 1" x 6' x 10' Steel Plate .....  | 258.60                    |                         |
| 01 22 23 00-0244 DAY 1" x 6' x 12' Steel Plate .....   | 102.95                    |                         |
| 01 22 23 00-0245 WK 1" x 6' x 12' Steel Plate .....  | 131.75                    |                         |
| 01 22 23 00-0246 MO 1" x 6' x 12' Steel Plate .....  | 356.65                    |                         |
| 01 22 23 00-0247 DAY 1" x 8' x 10' Steel Plate .....   | 64.96                     |                         |
| 01 22 23 00-0248 WK 1" x 8' x 10' Steel Plate .....  | 145.85                    |                         |
| 01 22 23 00-0249 MO 1" x 8' x 10' Steel Plate .....  | 388.52                    |                         |
| 01 22 23 00-0250 DAY 1" x 8' x 12' Steel Plate .....   | 117.66                    |                         |
| 01 22 23 00-0251 WK 1" x 8' x 12' Steel Plate .....  | 145.85                    |                         |
| 01 22 23 00-0252 MO 1" x 8' x 12' Steel Plate .....  | 705.95                    |                         |
| 01 22 23 00-0253 DAY 1" x 8' x 16' Steel Plate .....   | 156.88                    |                         |
| 01 22 23 00-0254 WK 1" x 8' x 16' Steel Plate .....  | 352.97                    |                         |
| 01 22 23 00-0255 MO 1" x 8' x 16' Steel Plate .....  | 941.26                    |                         |
| 01 22 23 00-0256 LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....  | 2.45                      | 1.04                    |
| 01 22 23 00-0257 EA Removal And Resetting Of Steel Roadway Plate .....   | 30.65                     |                         |
| <b>01 22 23 00-0258 Street Sweepers</b> <small>(01 22 23 00-0171)</small>  |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-0259 DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 1,070.48<br>-854.61       |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0260 WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 5,128.45<br>-4,273.04     |                         |
| 01 22 23 00-0261 MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 21,564.16<br>-18,516.51   |                         |
| 01 22 23 00-0262 DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator .....<br>Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.<br><i>For Equipment Without Operator, Deduct</i> | 1,898.67<br>-854.61       |                         |
| 01 22 23 00-0263 WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator .....<br>Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.<br><i>For Equipment Without Operator, Deduct</i>  | 8,455.05<br>-4,273.04     |                         |
| 01 22 23 00-0264 MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator .....<br>Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.<br><i>For Equipment Without Operator, Deduct</i>  | 33,441.11<br>-18,516.51   |                         |
| <b>01 22 23 00-0265 Earthmoving Equipment (01 22 23)</b>   |                           |                         |
| <b>01 22 23 00-0266 Skid-Steer Loaders (01 22 23 00-0265)</b>  |                           |                         |
| Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-0267 DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 1,183.81<br>-854.61       |                         |
| 01 22 23 00-0268 WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 5,136.67<br>-4,273.04     |                         |
| 01 22 23 00-0269 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 20,596.38<br>-18,516.51   |                         |
| 01 22 23 00-0270 DAY 1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,270.58<br>-854.61       |                         |
| 01 22 23 00-0271 WK 1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 5,293.69<br>-4,273.04     |                         |
| 01 22 23 00-0272 MO 1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 20,940.73<br>-18,516.51   |                         |
| 01 22 23 00-0273 DAY 2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,295.38<br>-854.61       |                         |
| 01 22 23 00-0274 WK 2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 5,519.59<br>-4,273.04     |                         |
| 01 22 23 00-0275 MO 2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 21,539.90<br>-18,516.51   |                         |
| 01 22 23 00-0276 DAY 2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,391.80<br>-854.61       |                         |
| 01 22 23 00-0277 WK 2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 5,836.39<br>-4,273.04     |                         |
| 01 22 23 00-0278 MO 2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 22,586.73<br>-18,516.51   |                         |
| 01 22 23 00-0279 DAY 3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,557.08<br>-854.61       |                         |
| 01 22 23 00-0280 WK 3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 6,463.11<br>-4,273.04     |                         |
| 01 22 23 00-0281 MO 3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 24,129.41<br>-18,516.51   |                         |
| 01 22 23 00-0282 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders .....  | 275.48                    |                         |
| 01 22 23 00-0283 WK Hydraulic Hammer Attachment For Skid-Steer Loaders .....   | 915.97                    |                         |
| 01 22 23 00-0284 MO Hydraulic Hammer Attachment For Skid-Steer Loaders .....   | 2,438.00                  |                         |
| 01 22 23 00-0285 DAY Forklift Attachment For Skid-Steer Loaders .....  | 59.23                     |                         |
| 01 22 23 00-0286 WK Forklift Attachment For Skid-Steer Loaders .....   | 158.40                    |                         |
| 01 22 23 00-0287 MO Forklift Attachment For Skid-Steer Loaders .....   | 447.66                    |                         |
| 01 22 23 00-0288 DAY Backhoe Attachment For Skid-Steer Loaders .....   | 130.85                    |                         |
| 01 22 23 00-0289 WK Backhoe Attachment For Skid-Steer Loaders .....  | 314.05                    |                         |
| 01 22 23 00-0290 MO Backhoe Attachment For Skid-Steer Loaders .....  | 780.99                    |                         |
| 01 22 23 00-0291 DAY Broom Attachment For Skid-Steer Loaders .....   | 129.48                    |                         |
| 01 22 23 00-0292 WK Broom Attachment For Skid-Steer Loaders .....  | 351.24                    |                         |
| 01 22 23 00-0293 MO Broom Attachment For Skid-Steer Loaders .....  | 929.74                    |                         |
| 01 22 23 00-0294 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....  | 112.95                    |                         |
| 01 22 23 00-0295 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....   | 311.29                    |                         |
| 01 22 23 00-0296 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....   | 849.86                    |                         |
| 01 22 23 00-0297 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....   | 31.13                     |                         |
| 01 22 23 00-0298 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....  | 81.45                     |                         |
| 01 22 23 00-0299 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....  | 239.54                    |                         |
| 01 22 23 00-0300 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....   | 41.91                     |                         |
| 01 22 23 00-0301 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....  | 104.20                    |                         |
| 01 22 23 00-0302 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....  | 311.42                    |                         |
| 01 22 23 00-0303 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....  | 61.07                     |                         |
| 01 22 23 00-0304 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....   | 185.66                    |                         |
| 01 22 23 00-0305 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....   | 550.96                    |                         |
| 01 22 23 00-0306 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....   | 12.40                     |                         |
| 01 22 23 00-0307 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....  | 28.93                     |                         |
| 01 22 23 00-0308 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....  | 77.13                     |                         |
| <b>01 22 23 00-0309 Bulldozers (01 22 23 00-0265)</b>  |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-0310 DAY 70 HP, D3 Bulldozer With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 1,369.60<br>-897.40       |                         |



|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0311 WK 70 HP, D3 Bulldozer With Full-Time Operator .....               | 6,349.07                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0312 MO 70 HP, D3 Bulldozer With Full-Time Operator .....               | 24,967.47                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0313 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator ..... | 1,592.34                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0314 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....  | 7,248.92                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0315 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....  | 27,729.42                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0316 DAY 140 HP, D6 Bulldozer With Full-Time Operator .....             | 2,224.92                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0317 WK 140 HP, D6 Bulldozer With Full-Time Operator .....              | 9,779.22                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0318 MO 140 HP, D6 Bulldozer With Full-Time Operator .....              | 35,302.49                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0319 DAY 200 HP, D7 Bulldozer With Full-Time Operator .....             | 2,786.21                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0320 WK 200 HP, D7 Bulldozer With Full-Time Operator .....              | 12,033.33                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0321 MO 200 HP, D7 Bulldozer With Full-Time Operator .....              | 42,073.71                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0322 DAY 335 HP, D8 Bulldozer With Full-Time Operator .....             | 3,454.43                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0323 WK 335 HP, D8 Bulldozer With Full-Time Operator .....              | 14,706.18                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0324 MO 335 HP, D8 Bulldozer With Full-Time Operator .....              | 50,092.26                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0325 DAY 460 HP, D9 Bulldozer With Full-Time Operator .....             | 3,828.63                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0326 WK 460 HP, D9 Bulldozer With Full-Time Operator .....              | 16,194.06                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0327 MO 460 HP, D9 Bulldozer With Full-Time Operator .....              | 54,547.01                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| <b>01 22 23 00-0328 Motor Scraper</b> <small>(01 22 23 00-0265)</small>             |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.          |                           |                         |
| 01 22 23 00-0329 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator .....       | 3,231.06                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0330 WK 11 CY Motor Scraper-Hauler With Full-Time Operator .....        | 13,821.64                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0331 MO 11 CY Motor Scraper-Hauler With Full-Time Operator .....        | 47,415.58                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0332 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator .....       | 4,174.12                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0333 WK 18 CY Motor Scraper-Hauler With Full-Time Operator .....        | 17,593.86                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0334 MO 18 CY Motor Scraper-Hauler With Full-Time Operator .....        | 58,764.22                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0335 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator .....       | 5,085.21                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0336 WK 24 CY Motor Scraper-Hauler With Full-Time Operator .....        | 21,222.23                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0337 MO 24 CY Motor Scraper-Hauler With Full-Time Operator .....        | 69,633.34                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| <b>01 22 23 00-0338 Hydraulic Excavators</b> <small>(01 22 23 00-0265)</small>      |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.          |                           |                         |
| 01 22 23 00-0339 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator .....       | 1,262.41                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0340 WK 3/8 CY Hydraulic Excavator With Full-Time Operator .....        | 5,778.04                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0341 MO 3/8 CY Hydraulic Excavator With Full-Time Operator .....        | 23,769.66                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0342 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator .....       | 1,365.16                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0343 WK 1/2 CY Hydraulic Excavator With Full-Time Operator .....        | 6,230.93                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0344 MO 1/2 CY Hydraulic Excavator With Full-Time Operator .....        | 25,581.21                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0345 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator .....       | 1,397.60                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0346 WK 5/8 CY Hydraulic Excavator With Full-Time Operator .....        | 6,399.92                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0347 MO 5/8 CY Hydraulic Excavator With Full-Time Operator .....        | 25,878.62                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |
| 01 22 23 00-0348 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator .....       | 1,431.40                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -897.40                   |                         |
| 01 22 23 00-0349 WK 3/4 CY Hydraulic Excavator With Full-Time Operator .....        | 6,555.39                  |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -4,486.98                 |                         |
| 01 22 23 00-0350 MO 3/4 CY Hydraulic Excavator With Full-Time Operator .....        | 26,176.04                 |                         |
| <i>For Equipment Without Operator, Deduct</i>                                       | -19,443.58                |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0351 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....          | 1,458.44                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0352 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....           | 6,717.62                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0353 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....           | 26,473.46                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0354 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....    | 1,823.45                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0355 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....     | 8,170.91                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0356 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....     | 30,495.36                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0357 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....    | 1,877.53                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0358 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....     | 8,407.49                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0359 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....     | 31,205.11                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0360 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....    | 8,179.92                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0361 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....     | 8,813.06                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0362 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....     | 32,421.82                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0363 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....        | 2,093.83                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0364 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....         | 9,265.95                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0365 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....         | 33,773.72                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0366 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....    | 2,127.63                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0367 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....     | 9,401.14                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0368 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....     | 34,179.29                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0369 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....        | 2,452.08                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0370 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....         | 10,705.72                 |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0371 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....         | 38,099.80                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0372 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....        | 2,918.49                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0373 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....         | 12,557.82                 |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0374 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....         | 43,642.59                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0375 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....           | 3,493.05                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0376 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....            | 14,856.05                 |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |
| 01 22 23 00-0377 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....            | 50,537.28                 |                         |
| For Equipment Without Operator, Deduct   | -19,443.58                |                         |
| 01 22 23 00-0378 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators.....            | 94.63                     |                         |
| 01 22 23 00-0379 WK Thumbs Or Grapple Attachment For Hydraulic Excavators.....             | 365.01                    |                         |
| 01 22 23 00-0380 MO Thumbs Or Grapple Attachment For Hydraulic Excavators.....             | 1,081.52                  |                         |
| 01 22 23 00-0381 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators..... | 419.09                    |                         |
| 01 22 23 00-0382 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....  | 1,108.56                  |                         |
| 01 22 23 00-0383 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....  | 3,102.61                  |                         |
| 01 22 23 00-0384 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators..... | 648.91                    |                         |
| 01 22 23 00-0385 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....  | 1,656.08                  |                         |
| 01 22 23 00-0386 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....  | 4,305.80                  |                         |
| 01 22 23 00-0387 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators..... | 905.77                    |                         |
| 01 22 23 00-0388 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....  | 2,440.18                  |                         |
| 01 22 23 00-0389 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....  | 6,840.61                  |                         |
| 01 22 23 00-0390 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators.....         | 189.27                    |                         |
| 01 22 23 00-0391 WK 24" Compaction Wheel Attachment For Hydraulic Excavators.....          | 757.06                    |                         |
| 01 22 23 00-0392 MO 24" Compaction Wheel Attachment For Hydraulic Excavators.....          | 2,271.19                  |                         |
| 01 22 23 00-0393 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators.....         | 270.38                    |                         |
| 01 22 23 00-0394 WK 36" Compaction Wheel Attachment For Hydraulic Excavators.....          | 1,081.52                  |                         |
| 01 22 23 00-0395 MO 36" Compaction Wheel Attachment For Hydraulic Excavators.....          | 3,244.56                  |                         |
| 01 22 23 00-0396 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators.....         | 297.42                    |                         |
| 01 22 23 00-0397 WK 48" Compaction Wheel Attachment For Hydraulic Excavators.....          | 1,176.15                  |                         |
| 01 22 23 00-0398 MO 48" Compaction Wheel Attachment For Hydraulic Excavators.....          | 3,514.94                  |                         |
| <br>   |                           |                         |
| 01 22 23 00-0399 Mini-Excavators <small>(01 22 23 00-0265)</small>                         |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.                 |                           |                         |
| 01 22 23 00-0400 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....                  | 1,181.30                  |                         |
| For Equipment Without Operator, Deduct   | -897.40                   |                         |
| 01 22 23 00-0401 WK 2,000 LB Mini-Excavator With Full-Time Operator.....                   | 5,291.36                  |                         |
| For Equipment Without Operator, Deduct   | -4,486.98                 |                         |

|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0402 MO 2,000 LB Mini-Excavator With Full-Time Operator.....                                    | 21,214.57                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0403 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....                                   | 1,188.06                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0404 WK 3,500 LB Mini-Excavator With Full-Time Operator.....                                    | 5,311.64                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0405 MO 3,500 LB Mini-Excavator With Full-Time Operator.....                                    | 21,640.42                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0406 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....                                   | 1,221.86                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0407 WK 6,000 LB Mini-Excavator With Full-Time Operator.....                                    | 5,406.27                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0408 MO 6,000 LB Mini-Excavator With Full-Time Operator.....                                    | 21,701.25                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0409 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....                                   | 1,235.38                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0410 WK 7,500 LB Mini-Excavator With Full-Time Operator.....                                    | 5,453.59                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0411 MO 7,500 LB Mini-Excavator With Full-Time Operator.....                                    | 1,228.29                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0412 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....                                   | 1,316.49                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0413 WK 9,500 LB Mini-Excavator With Full-Time Operator.....                                    | 5,521.18                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0414 MO 9,500 LB Mini-Excavator With Full-Time Operator.....                                    | 22,512.39                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0415 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....                                  | 1,323.25                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0416 WK 11,000 LB Mini-Excavator With Full-Time Operator.....                                   | 5,859.16                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0417 MO 11,000 LB Mini-Excavator With Full-Time Operator.....                                   | 22,546.19                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| <b>01 22 23 00-0418 Road Graders</b> (01 22 23 00-0265)   |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.                                  |                           |                         |
| 01 22 23 00-0419 DAY 60 HP Road Grader With Full-Time Operator.....   | 2,218.96                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0420 WK 60 HP Road Grader With Full-Time Operator.....  | 8,061.96                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0421 MO 60 HP Road Grader With Full-Time Operator.....  | 30,134.64                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0422 DAY 80 HP Road Grader With Full-Time Operator.....   | 2,608.65                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0423 WK 80 HP Road Grader With Full-Time Operator.....  | 9,146.32                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0424 MO 80 HP Road Grader With Full-Time Operator.....  | 33,421.59                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0425 DAY 130 HP Road Grader With Full-Time Operator.....  | 2,344.75                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0426 WK 130 HP Road Grader With Full-Time Operator.....   | 10,276.42                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0427 MO 130 HP Road Grader With Full-Time Operator.....   | 40,133.21                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| <b>01 22 23 00-0428 Loader-Backhoes With Standard Bucket</b> (01 22 23 00-0265)                             |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.                                  |                           |                         |
| 01 22 23 00-0429 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....  | 1,352.23                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0430 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....   | 5,567.21                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0431 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....   | 21,985.77                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0432 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....      | 1,400.96                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0433 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....       | 5,737.77                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0434 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....       | 23,025.38                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0435 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....  | 1,476.09                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0436 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....   | 5,924.57                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0437 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....   | 23,561.43                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |
| 01 22 23 00-0438 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... | 1,811.12                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -897.40                   |                         |
| 01 22 23 00-0439 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....  | 6,923.58                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,486.98                 |                         |
| 01 22 23 00-0440 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....  | 26,420.38                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,443.58                |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>01 22 23 00-0441 Heavy Duty Construction Loaders</b> <small>(01 22 23 00-0265)</small>  |                           |                         |
| <small>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</small>  |                           |                         |
| 01 22 23 00-0442 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 1,404.95                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| 01 22 23 00-0443 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 6,493.76                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| 01 22 23 00-0444 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 25,456.12                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| 01 22 23 00-0445 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 1,826.61                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| 01 22 23 00-0446 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 6,954.47                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| 01 22 23 00-0447 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 25,690.38                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| 01 22 23 00-0448 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 1,920.31                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| 01 22 23 00-0449 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 7,204.34                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| 01 22 23 00-0450 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 26,315.06                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| 01 22 23 00-0451 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 2,177.99                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| 01 22 23 00-0452 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 7,883.68                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| 01 22 23 00-0453 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 28,032.93                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| 01 22 23 00-0454 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 2,841.72                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| 01 22 23 00-0455 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 12,248.63                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| 01 22 23 00-0456 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 42,712.91                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| 01 22 23 00-0457 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator .....   | 7,214.40                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| 01 22 23 00-0458 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 24,999.69                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| 01 22 23 00-0459 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator .....  | 75,346.27                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| <b>01 22 23 00-0460 Telescopic Hydraulic Excavators (Gradall)</b> <small>(01 22 23 00-0265)</small>  |                           |                         |
| <small>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</small>  |                           |                         |
| 01 22 23 00-0461 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator .....   | 4,465.51                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -897.40                   |                         |
| <i>For Track Gradall, Add</i>  | 428.17                    |                         |
| 01 22 23 00-0462 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator .....  | 18,743.46                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,486.98                 |                         |
| <i>For Track Gradall, Add</i>  | 1,710.78                  |                         |
| 01 22 23 00-0463 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator .....  | 70,326.98                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,443.58                |                         |
| <i>For Track Gradall, Add</i>  | 6,106.01                  |                         |
| <b>01 22 23 00-0464 Shoring</b> <small>(01 22 23 00-0265)</small>  |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete.</small>  |                           |                         |
| <b>01 22 23 00-0465 Aluminum Hydraulic Shoring</b> <small>(01 22 23 00-0464)</small>   |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.</small>   |                           |                         |
| 01 22 23 00-0466 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring .....   | 114.71                    |                         |
| <small>Note: Up to 88" spread width.</small>   |                           |                         |
| 01 22 23 00-0467 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring .....   | 338.35                    |                         |
| <small>Note: Up to 88" spread width.</small>   |                           |                         |
| 01 22 23 00-0468 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring .....   | 153.88                    |                         |
| <small>Note: Up to 88" spread width.</small>   |                           |                         |
| 01 22 23 00-0469 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring .....   | 453.89                    |                         |
| <small>Note: Up to 88" spread width.</small>   |                           |                         |
| 01 22 23 00-0470 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring .....   | 285.34                    |                         |
| <small>Note: Up to 88" spread width.</small>   |                           |                         |
| 01 22 23 00-0471 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring .....   | 841.75                    |                         |
| <small>Note: Up to 88" spread width.</small>   |                           |                         |
| 01 22 23 00-0472 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores .....   | 26.37                     |                         |
| 01 22 23 00-0473 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores .....  | 42.19                     |                         |
| 01 22 23 00-0474 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores .....  | 70.31                     |                         |
| <b>01 22 23 00-0475 Trench Boxes/Trench Shields</b> <small>(01 22 23 00-0265)</small>  |                           |                         |
| <small>Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.</small> |                           |                         |
| 01 22 23 00-0476 WK 4' x 6' Trench Box With Up To 48" Spreaders .....  | 256.08                    |                         |
| 01 22 23 00-0477 MO 4' x 6' Trench Box With Up To 48" Spreaders .....  | 768.23                    |                         |
| 01 22 23 00-0478 WK 6' x 6' Trench Box With Up To 48" Spreaders .....  | 289.12                    |                         |
| 01 22 23 00-0479 MO 6' x 6' Trench Box With Up To 48" Spreaders .....  | 867.35                    |                         |
| 01 22 23 00-0480 WK 8' x 6' Trench Box With Up To 48" Spreaders .....  | 305.64                    |                         |
| 01 22 23 00-0481 MO 8' x 6' Trench Box With Up To 48" Spreaders .....  | 916.92                    |                         |



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|---|------------------------|----------------------|
| 01 22 23 00-0482  | WK  |     | 4' x 8' Trench Box With Up To 48" Spreaders.....                              | 280.86                 |                      |
| 01 22 23 00-0483  | MO  |     | 4' x 8' Trench Box With Up To 48" Spreaders.....                              | 842.57                 |                      |
| 01 22 23 00-0484  | WK  |     | 6' x 8' Trench Box With Up To 48" Spreaders.....                              | 330.42                 |                      |
| 01 22 23 00-0485  | MO  |     | 6' x 8' Trench Box With Up To 48" Spreaders.....                              | 991.26                 |                      |
| 01 22 23 00-0486  | WK  |     | 8' x 8' Trench Box With Up To 48" Spreaders.....                              | 371.72                 |                      |
| 01 22 23 00-0487  | MO  |     | 8' x 8' Trench Box With Up To 48" Spreaders.....                              | 1,115.17               |                      |
| 01 22 23 00-0488  | WK  |     | 4' x 10' Trench Box With Up To 48" Spreaders.....                             | 313.90                 |                      |
| 01 22 23 00-0489  | MO  |     | 4' x 10' Trench Box With Up To 48" Spreaders.....                             | 941.70                 |                      |
| 01 22 23 00-0490  | WK  |     | 6' x 10' Trench Box With Up To 48" Spreaders.....                             | 371.72                 |                      |
| 01 22 23 00-0491  | MO  |     | 6' x 10' Trench Box With Up To 48" Spreaders.....                             | 1,115.17               |                      |
| 01 22 23 00-0492  | WK  |     | 8' x 10' Trench Box With Up To 48" Spreaders.....                             | 454.33                 |                      |
| 01 22 23 00-0493  | MO  |     | 8' x 10' Trench Box With Up To 48" Spreaders.....                             | 1,354.72               |                      |
| 01 22 23 00-0494  | WK  |     | 4' x 12' Trench Box With Up To 48" Spreaders.....                             | 371.72                 |                      |
| 01 22 23 00-0495  | MO  |     | 4' x 12' Trench Box With Up To 48" Spreaders.....                             | 1,115.17               |                      |
| 01 22 23 00-0496  | WK  |     | 6' x 12' Trench Box With Up To 48" Spreaders.....                             | 454.33                 |                      |
| 01 22 23 00-0497  | MO  |     | 6' x 12' Trench Box With Up To 48" Spreaders.....                             | 1,362.98               |                      |
| 01 22 23 00-0498  | WK  |     | 8' x 12' Trench Box With Up To 48" Spreaders.....                             | 578.24                 |                      |
| 01 22 23 00-0499  | MO  |     | 8' x 12' Trench Box With Up To 48" Spreaders.....                             | 1,734.70               |                      |
| 01 22 23 00-0500  | WK  |     | 4' x 14' Trench Box With Up To 48" Spreaders.....                             | 413.02                 |                      |
| 01 22 23 00-0501  | MO  |     | 4' x 14' Trench Box With Up To 48" Spreaders.....                             | 1,239.08               |                      |
| 01 22 23 00-0502  | WK  |     | 6' x 14' Trench Box With Up To 48" Spreaders.....                             | 536.93                 |                      |
| 01 22 23 00-0503  | MO  |     | 6' x 14' Trench Box With Up To 48" Spreaders.....                             | 1,610.80               |                      |
| 01 22 23 00-0504  | WK  |     | 8' x 14' Trench Box With Up To 48" Spreaders.....                             | 660.84                 |                      |
| 01 22 23 00-0505  | MO  |     | 8' x 14' Trench Box With Up To 48" Spreaders.....                             | 1,982.52               |                      |
| 01 22 23 00-0506  | WK  |     | 4' x 16' Trench Box With Up To 48" Spreaders.....                             | 454.33                 |                      |
| 01 22 23 00-0507  | MO  |     | 4' x 16' Trench Box With Up To 48" Spreaders.....                             | 1,362.98               |                      |
| 01 22 23 00-0508  | WK  |     | 6' x 16' Trench Box With Up To 48" Spreaders.....                             | 619.54                 |                      |
| 01 22 23 00-0509  | MO  |     | 6' x 16' Trench Box With Up To 48" Spreaders.....                             | 1,858.61               |                      |
| 01 22 23 00-0510  | WK  |     | 8' x 16' Trench Box With Up To 48" Spreaders.....                             | 743.44                 |                      |
| 01 22 23 00-0511  | MO  |     | 8' x 16' Trench Box With Up To 48" Spreaders.....                             | 2,230.34               |                      |
| 01 22 23 00-0512  | WK  |     | 4' x 20' Trench Box With Up To 48" Spreaders.....                             | 536.93                 |                      |
| 01 22 23 00-0513  | MO  |     | 4' x 20' Trench Box With Up To 48" Spreaders.....                             | 1,610.80               |                      |
| 01 22 23 00-0514  | WK  |     | 6' x 20' Trench Box With Up To 48" Spreaders.....                             | 743.44                 |                      |
| 01 22 23 00-0515  | MO  |     | 6' x 20' Trench Box With Up To 48" Spreaders.....                             | 2,230.34               |                      |
| 01 22 23 00-0516  | WK  |     | 8' x 20' Trench Box With Up To 48" Spreaders.....                             | 867.35                 |                      |
| 01 22 23 00-0517  | MO  |     | 8' x 20' Trench Box With Up To 48" Spreaders.....                             | 2,602.06               |                      |
| 01 22 23 00-0518  | WK  |     | 4' x 24' Trench Box With Up To 48" Spreaders.....                             | 743.44                 |                      |
| 01 22 23 00-0519  | MO  |     | 4' x 24' Trench Box With Up To 48" Spreaders.....                             | 2,230.34               |                      |
| 01 22 23 00-0520  | WK  |     | 6' x 24' Trench Box With Up To 48" Spreaders.....                             | 908.66                 |                      |
| 01 22 23 00-0521  | MO  |     | 6' x 24' Trench Box With Up To 48" Spreaders.....                             | 2,725.96               |                      |
| 01 22 23 00-0522  | WK  |     | 8' x 24' Trench Box With Up To 48" Spreaders.....                             | 991.26                 |                      |
| 01 22 23 00-0523  | MO  |     | 8' x 24' Trench Box With Up To 48" Spreaders.....                             | 2,973.78               |                      |
| 01 22 23 00-0524  | WK  |     | For Spreaders >48" To 84", Add.....   | 24.78                  |                      |
| 01 22 23 00-0525  | MO  |     | For Spreaders >48" To 84", Add.....   | 74.34                  |                      |
| 01 22 23 00-0526  | WK  |     | For Spreaders >84" To 120", Add.....  | 148.69                 |                      |
| 01 22 23 00-0527  | MO  |     | For Spreaders >84" To 120", Add.....  | 446.07                 |                      |
| 01 22 23 00-0528  | WK  |     | For Spreaders >120", Add.....   | 313.90                 |                      |
| 01 22 23 00-0529  | MO  |     | For Spreaders >120", Add.....   | 941.70                 |                      |
| 01 22 23 00-0530  | WK  |     | 8' x 4' Manhole Box.....  | 390.31                 |                      |
| 01 22 23 00-0531  | MO  |     | 8' x 4' Manhole Box.....  | 1,170.93               |                      |
| 01 22 23 00-0532  | WK  |     | 8' x 8' Manhole Box.....  | 557.58                 |                      |
| 01 22 23 00-0533  | MO  |     | 8' x 8' Manhole Box.....  | 1,672.75               |                      |
| <b>01 22 23 00-0534 Trenchers (01 22 23 00-0265)</b>  |     |     |   |                        |                      |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.  |     |     |   |                        |                      |
| 01 22 23 00-0535  | DAY |     | 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....        | 1,226.23               |                      |
|   |     |     | <i>For Equipment Without Operator, Deduct</i>                                 | <i>-854.61</i>         |                      |
| 01 22 23 00-0536  | WK  |     | 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....        | 5,538.86               |                      |
|   |     |     | <i>For Equipment Without Operator, Deduct</i>                                 | <i>-4,273.04</i>       |                      |
| 01 22 23 00-0537  | MO  |     | 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....        | 22,000.41              |                      |
|   |     |     | <i>For Equipment Without Operator, Deduct</i>                                 | <i>-18,516.51</i>      |                      |
| 01 22 23 00-0538  | DAY |     | 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....        | 1,853.33               |                      |
|   |     |     | <i>For Equipment Without Operator, Deduct</i>                                 | <i>-854.61</i>         |                      |
| 01 22 23 00-0539  | WK  |     | 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....        | 7,652.42               |                      |
|   |     |     | <i>For Equipment Without Operator, Deduct</i>                                 | <i>-4,273.04</i>       |                      |
| 01 22 23 00-0540  | MO  |     | 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....        | 27,806.91              |                      |
|   |     |     | <i>For Equipment Without Operator, Deduct</i>                                 | <i>-18,516.51</i>      |                      |
| <b>01 22 23 00-0541 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0265)</b>   |     |     |   |                        |                      |
| Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0265 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization. |     |     |   |                        |                      |
| 01 22 23 00-0542  | DAY |     | 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....     | 30.37                  |                      |
| 01 22 23 00-0543  | WK  |     | 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....     | 72.32                  |                      |
| 01 22 23 00-0544  | MO  |     | 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....     | 151.87                 |                      |
| 01 22 23 00-0545  | DAY |     | 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....     | 31.89                  |                      |
| 01 22 23 00-0546  | WK  |     | 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....     | 75.94                  |                      |
| 01 22 23 00-0547  | MO  |     | 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....     | 159.46                 |                      |
| 01 22 23 00-0548  | Day |     | 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat..... | 25.82                  |                      |
| 01 22 23 00-0549  | WK  |     | 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat..... | 60.75                  |                      |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 01 22 23 00-0550 | MO  |     | 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 129.09                 |                      |
| 01 22 23 00-0551 | Day |     | 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 28.86                  |                      |
| 01 22 23 00-0552 | WK  |     | 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 68.34                  |                      |
| 01 22 23 00-0553 | MO  |     | 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 144.28                 |                      |
| 01 22 23 00-0554 | Day |     | 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 31.89                  |                      |
| 01 22 23 00-0555 | WK  |     | 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 75.94                  |                      |
| 01 22 23 00-0556 | MO  |     | 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 159.46                 |                      |
| 01 22 23 00-0557 | Day |     | 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 34.93                  |                      |
| 01 22 23 00-0558 | WK  |     | 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 83.17                  |                      |
| 01 22 23 00-0559 | MO  |     | 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat    | 174.65                 |                      |
| 01 22 23 00-0560 | Day |     | 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 27.34                  |                      |
| 01 22 23 00-0561 | WK  |     | 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 75.94                  |                      |
| 01 22 23 00-0562 | MO  |     | 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 136.68                 |                      |
| 01 22 23 00-0563 | Day |     | 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 31.89                  |                      |
| 01 22 23 00-0564 | WK  |     | 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 75.94                  |                      |
| 01 22 23 00-0565 | MO  |     | 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 159.46                 |                      |
| 01 22 23 00-0566 | Day |     | 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 37.97                  |                      |
| 01 22 23 00-0567 | WK  |     | 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 83.53                  |                      |
| 01 22 23 00-0568 | MO  |     | 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 189.84                 |                      |
| 01 22 23 00-0569 | Day |     | 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 41.00                  |                      |
| 01 22 23 00-0570 | WK  |     | 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 97.63                  |                      |
| 01 22 23 00-0571 | MO  |     | 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 205.02                 |                      |
| 01 22 23 00-0572 | Day |     | 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 44.04                  |                      |
| 01 22 23 00-0573 | WK  |     | 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 104.86                 |                      |
| 01 22 23 00-0574 | MO  |     | 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 220.21                 |                      |
| 01 22 23 00-0575 | Day |     | 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 45.56                  |                      |
| 01 22 23 00-0576 | WK  |     | 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 108.48                 |                      |
| 01 22 23 00-0577 | MO  |     | 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat                | 227.80                 |                      |
| 01 22 23 00-0578 | Day |     | 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) | 14.61                  |                      |
| 01 22 23 00-0579 | WK  |     | 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) | 36.52                  |                      |
| 01 22 23 00-0580 | MO  |     | 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) | 109.57                 |                      |
| 01 22 23 00-0581 | Day |     | 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 17.46                  |                      |
| 01 22 23 00-0582 | WK  |     | 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 43.66                  |                      |
| 01 22 23 00-0583 | MO  |     | 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 130.99                 |                      |
| 01 22 23 00-0584 | Day |     | 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 19.95                  |                      |
| 01 22 23 00-0585 | WK  |     | 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 49.86                  |                      |
| 01 22 23 00-0586 | MO  |     | 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 149.59                 |                      |
| 01 22 23 00-0587 | Day |     | 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 21.26                  |                      |
| 01 22 23 00-0588 | WK  |     | 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 53.15                  |                      |
| 01 22 23 00-0589 | MO  |     | 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 159.46                 |                      |
| 01 22 23 00-0590 | Day |     | 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 24.30                  |                      |
| 01 22 23 00-0591 | WK  |     | 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 60.75                  |                      |
| 01 22 23 00-0592 | MO  |     | 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 182.24                 |                      |
| 01 22 23 00-0593 | Day |     | 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 27.92                  |                      |
| 01 22 23 00-0594 | WK  |     | 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 69.81                  |                      |
| 01 22 23 00-0595 | MO  |     | 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 209.43                 |                      |
| 01 22 23 00-0596 | Day |     | 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)     | 21.48                  |                      |
| 01 22 23 00-0597 | WK  |     | 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)     | 53.71                  |                      |
| 01 22 23 00-0598 | MO  |     | 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)     | 161.13                 |                      |
| 01 22 23 00-0599 | Day |     | 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 29.09                  |                      |
| 01 22 23 00-0600 | WK  |     | 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 72.72                  |                      |
| 01 22 23 00-0601 | MO  |     | 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 218.16                 |                      |
| 01 22 23 00-0602 | Day |     | 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 25.15                  |                      |
| 01 22 23 00-0603 | WK  |     | 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 62.87                  |                      |
| 01 22 23 00-0604 | MO  |     | 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 188.62                 |                      |
| 01 22 23 00-0605 | Day |     | 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 41.94                  |                      |
| 01 22 23 00-0606 | WK  |     | 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 104.86                 |                      |
| 01 22 23 00-0607 | MO  |     | 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) | 314.58                 |                      |
| 01 22 23 00-0608 | Day |     | 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)     | 44.71                  |                      |
| 01 22 23 00-0609 | WK  |     | 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)     | 111.78                 |                      |
| 01 22 23 00-0610 | MO  |     | 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)     | 335.33                 |                      |

01 22 23 00-0611 **Electrical Equipment** (01 22 23)

01 22 23 00-0612 **Tripod Mounted Floodlights** (01 22 23 00-0611)

Note: Includes delivery to job site and pick-up when complete.

|                  |     |  |  |        |  |
|------------------|-----|--|--|--------|--|
| 01 22 23 00-0613 | DAY |  | 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod   | 72.01  |  |
| 01 22 23 00-0614 | WK  |  | 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod   | 170.36 |  |
| 01 22 23 00-0615 | MO  |  | 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod   | 360.04 |  |
| 01 22 23 00-0616 | DAY |  | 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod | 72.01  |  |
| 01 22 23 00-0617 | WK  |  | 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod | 210.76 |  |
| 01 22 23 00-0618 | MO  |  | 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod | 623.49 |  |
| 01 22 23 00-0619 | DAY |  | 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod | 80.79  |  |
| 01 22 23 00-0620 | WK  |  | 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod | 219.54 |  |
| 01 22 23 00-0621 | MO  |  | 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod | 535.67 |  |

01 22 23 00-0622 **Trailer Mounted Floodlights** (01 22 23 00-0611)

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

|                  |     |  |   |        |  |
|------------------|-----|--|---|--------|--|
| 01 22 23 00-0623 | DAY |  | 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower | 201.97 |  |
|------------------|-----|--|---|--------|--|

|           |              |                                     |
|-----------|--------------|-------------------------------------|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>         |
|           | <b>01 20</b> | <b>Price and Payment Procedures</b> |
|           | <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0624 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....   | 447.86                    |                         |
| 01 22 23 00-0625 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....   | 965.96                    |                         |
| <b>01 22 23 00-0626 Generator Sets <small>(01 22 23 00-0611)</small></b>   |                           |                         |
| <b>01 22 23 00-0627 Portable, Gas Powered Generator Sets <small>(01 22 23 00-0626)</small></b>   |                           |                         |
| Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0769 for reimbursable fuel fees.   |                           |                         |
| 01 22 23 00-0628 DAY 3.6 KW, 8 HP Gas Powered Generator Set.....   | 51.09                     |                         |
| Note: Fuel consumption: 100% load – 0.54 gallons per hour  |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 6.39                    |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>   |                           |                         |
|  |                           | 25.55                   |
| 01 22 23 00-0629 WK 3.6 KW, 8 HP Gas Powered Generator Set.....  | 184.17                    |                         |
| Note: Fuel consumption: 100% load – 0.54 gallons per hour  |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 23.02                   |
| 01 22 23 00-0630 MO 3.6 KW, 8 HP Gas Powered Generator Set.....  | 510.93                    |                         |
| Note: Fuel consumption: 100% load – 0.54 gallons per hour  |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 63.87                   |
| 01 22 23 00-0631 DAY 5 KW, 11 HP Gas Powered Generator Set.....  | 72.48                     |                         |
| Note: Fuel consumption: 100% load – 0.75 gallons per hour  |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 9.06                    |
| 01 22 23 00-0632 WK 5 KW, 11 HP Gas Powered Generator Set.....   | 231.70                    |                         |
| Note: Fuel consumption: 100% load – 0.75 gallons per hour  |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 28.96                   |
| 01 22 23 00-0633 MO 5 KW, 11 HP Gas Powered Generator Set.....   | 528.75                    |                         |
| Note: Fuel consumption: 100% load – 0.75 gallons per hour  |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 66.09                   |
| 01 22 23 00-0634 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....  | 92.68                     |                         |
| Note: Fuel consumption: 100% load – 0.975 gallons per hour   |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 11.59                   |
| 01 22 23 00-0635 WK 6.5 KW, 13 HP Gas Powered Generator Set.....   | 249.52                    |                         |
| Note: Fuel consumption: 100% load – 0.975 gallons per hour   |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 31.19                   |
| 01 22 23 00-0636 MO 6.5 KW, 13 HP Gas Powered Generator Set.....   | 689.16                    |                         |
| Note: Fuel consumption: 100% load – 0.975 gallons per hour   |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 86.15                   |
| 01 22 23 00-0637 DAY 10 KW, 18 HP Gas Powered Generator Set.....   | 103.37                    |                         |
| Note: Fuel consumption: 100% load – 1.5 gallons per hour   |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 12.92                   |
| 01 22 23 00-0638 WK 10 KW, 18 HP Gas Powered Generator Set.....  | 279.23                    |                         |
| Note: Fuel consumption: 100% load – 1.5 gallons per hour   |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 34.90                   |
| 01 22 23 00-0639 MO 10 KW, 18 HP Gas Powered Generator Set.....  | 802.04                    |                         |
| Note: Fuel consumption: 100% load – 1.5 gallons per hour   |                           |                         |
| <i>For LP Or NG Gas, Add</i>   |                           |                         |
|  |                           | 100.26                  |
| <b>01 22 23 00-0640 Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0626)</small></b>   |                           |                         |
| Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0769 for reimbursable fuel fees. |                           |                         |
| 01 22 23 00-0641 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 212.69                    |                         |
| Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.  |                           |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>  |                           |                         |
|  |                           | 106.35                  |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>   |                           |                         |
|  |                           | 212.69                  |
| 01 22 23 00-0642 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 556.08                    |                         |
| Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.  |                           |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>  |                           |                         |
|  |                           | 278.04                  |
| <i>For &gt;80 Hours Usage Per Week, Add</i>  |                           |                         |
|  |                           | 556.08                  |
| 01 22 23 00-0643 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 1,514.96                  |                         |
| Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.  |                           |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>   |                           |                         |
|  |                           | 757.48                  |
| <i>For &gt;320 Hours Usage Per Month, Add</i>  |                           |                         |
|  |                           | 1,514.96                |
| 01 22 23 00-0644 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 361.30                    |                         |
| Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.  |                           |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>  |                           |                         |
|  |                           | 180.65                  |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>   |                           |                         |
|  |                           | 361.30                  |
| 01 22 23 00-0645 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 1,072.26                  |                         |
| Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.  |                           |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>  |                           |                         |
|  |                           | 536.13                  |
| <i>For &gt;80 Hours Usage Per Week, Add</i>  |                           |                         |
|  |                           | 1,072.26                |
| 01 22 23 00-0646 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 2,214.45                  |                         |
| Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.  |                           |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>   |                           |                         |
|  |                           | 1,107.23                |
| <i>For &gt;320 Hours Usage Per Month, Add</i>  |                           |                         |
|  |                           | 2,214.45                |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0647 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.  | 396.27                    |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>   | 198.14                    |                         |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>  | 396.27                    |                         |
| 01 22 23 00-0648 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.   | 1,107.22                  |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>   | 553.61                    |                         |
| <i>For &gt;80 Hours Usage Per Week, Add</i>   | 1,107.22                  |                         |
| 01 22 23 00-0649 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.   | 2,447.55                  |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>  | 1,223.78                  |                         |
| <i>For &gt;320 Hours Usage Per Month, Add</i>   | 2,447.55                  |                         |
| 01 22 23 00-0650 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.  | 425.41                    |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>   | 212.71                    |                         |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>  | 425.41                    |                         |
| 01 22 23 00-0651 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.   | 1,165.50                  |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>   | 582.75                    |                         |
| <i>For &gt;80 Hours Usage Per Week, Add</i>   | 1,165.50                  |                         |
| 01 22 23 00-0652 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.   | 2,797.20                  |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>  | 1,398.60                  |                         |
| <i>For &gt;320 Hours Usage Per Month, Add</i>   | 2,797.20                  |                         |
| 01 22 23 00-0653 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.  | 466.20                    |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>   | 233.10                    |                         |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>  | 466.20                    |                         |
| 01 22 23 00-0654 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.   | 1,322.84                  |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>   | 661.42                    |                         |
| <i>For &gt;80 Hours Usage Per Week, Add</i>   | 1,322.84                  |                         |
| 01 22 23 00-0655 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.   | 3,146.85                  |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>  | 1,573.43                  |                         |
| <i>For &gt;320 Hours Usage Per Month, Add</i>   | 3,146.85                  |                         |
| 01 22 23 00-0656 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.  | 524.48                    |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>   | 262.24                    |                         |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>  | 524.48                    |                         |
| 01 22 23 00-0657 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.   | 1,398.60                  |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>   | 699.30                    |                         |
| <i>For &gt;80 Hours Usage Per Week, Add</i>   | 1,398.60                  |                         |
| 01 22 23 00-0658 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.   | 3,496.50                  |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>  | 1,748.25                  |                         |
| <i>For &gt;320 Hours Usage Per Month, Add</i>   | 3,496.50                  |                         |
| 01 22 23 00-0659 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. | 541.96                    |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>   | 270.98                    |                         |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>  | 541.96                    |                         |
| 01 22 23 00-0660 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.  | 1,456.88                  |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>   | 728.44                    |                         |
| <i>For &gt;80 Hours Usage Per Week, Add</i>   | 1,456.88                  |                         |
| 01 22 23 00-0661 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.  | 3,962.70                  |                         |
| <i>For &gt;160 To 320 Hours Usage Per Month, Add</i>  | 1,981.35                  |                         |
| <i>For &gt;320 Hours Usage Per Month, Add</i>   | 3,962.70                  |                         |
| 01 22 23 00-0662 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. | 611.89                    |                         |
| <i>For &gt;8 To 16 Hours Usage Per Day, Add</i>   | 305.95                    |                         |
| <i>For &gt;16 To 24 Hours Usage Per Day, Add</i>  | 611.89                    |                         |
| 01 22 23 00-0663 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....<br>Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.  | 1,689.98                  |                         |
| <i>For &gt;40 To 80 Hours Usage Per Week, Add</i>   | 844.99                    |                         |
| <i>For &gt;80 Hours Usage Per Week, Add</i>   | 1,689.98                  |                         |

|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0664 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 4,545.45                  |                         |
| Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.   |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add  | 2,272.73                  |                         |
| For >320 Hours Usage Per Month, Add   | 4,545.45                  |                         |
| 01 22 23 00-0665 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 641.02                    |                         |
| Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.  |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add   | 320.51                    |                         |
| For >16 To 24 Hours Usage Per Day, Add  | 641.02                    |                         |
| 01 22 23 00-0666 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 1,777.39                  |                         |
| Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.  |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add   | 888.70                    |                         |
| For >80 Hours Usage Per Week, Add   | 1,777.39                  |                         |
| 01 22 23 00-0667 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 5,011.65                  |                         |
| Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.  |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add  | 2,505.83                  |                         |
| For >320 Hours Usage Per Month, Add   | 5,011.65                  |                         |
| 01 22 23 00-0668 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 670.16                    |                         |
| Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.  |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add   | 335.08                    |                         |
| For >16 To 24 Hours Usage Per Day, Add  | 670.16                    |                         |
| 01 22 23 00-0669 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 1,923.08                  |                         |
| Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.  |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add   | 961.54                    |                         |
| For >80 Hours Usage Per Week, Add   | 1,923.08                  |                         |
| 01 22 23 00-0670 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 5,244.75                  |                         |
| Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.  |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add  | 2,622.38                  |                         |
| For >320 Hours Usage Per Month, Add   | 5,244.75                  |                         |
| 01 22 23 00-0671 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 699.30                    |                         |
| Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.  |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add   | 349.65                    |                         |
| For >16 To 24 Hours Usage Per Day, Add  | 699.30                    |                         |
| 01 22 23 00-0672 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 2,039.62                  |                         |
| Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.  |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add   | 1,019.81                  |                         |
| For >80 Hours Usage Per Week, Add   | 2,039.62                  |                         |
| 01 22 23 00-0673 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 5,477.85                  |                         |
| Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.  |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add  | 2,738.93                  |                         |
| For >320 Hours Usage Per Month, Add   | 5,477.85                  |                         |
| 01 22 23 00-0674 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 699.30                    |                         |
| Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.  |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add   | 349.65                    |                         |
| For >16 To 24 Hours Usage Per Day, Add  | 699.30                    |                         |
| 01 22 23 00-0675 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 2,039.62                  |                         |
| Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.  |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add   | 1,019.81                  |                         |
| For >80 Hours Usage Per Week, Add   | 2,039.62                  |                         |
| 01 22 23 00-0676 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 5,477.85                  |                         |
| Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.  |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add  | 2,738.93                  |                         |
| For >320 Hours Usage Per Month, Add   | 5,477.85                  |                         |
| 01 22 23 00-0677 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 961.54                    |                         |
| Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add   | 480.77                    |                         |
| For >16 To 24 Hours Usage Per Day, Add  | 961.54                    |                         |
| 01 22 23 00-0678 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 2,389.28                  |                         |
| Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add   | 1,194.64                  |                         |
| For >80 Hours Usage Per Week, Add   | 2,389.28                  |                         |
| 01 22 23 00-0679 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....  | 6,993.00                  |                         |
| Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add  | 3,496.50                  |                         |
| For >320 Hours Usage Per Month, Add   | 6,993.00                  |                         |
| 01 22 23 00-0680 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....   | 1,019.81                  |                         |
| Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add   | 509.91                    |                         |
| For >16 To 24 Hours Usage Per Day, Add  | 1,019.81                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0681 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,447.55<br>Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.<br><i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,223.78<br><i>For &gt;80 Hours Usage Per Week, Add</i> 2,447.55           | 2,447.55                  |                         |
| 01 22 23 00-0682 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,226.10<br>Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.<br><i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,613.05<br><i>For &gt;320 Hours Usage Per Month, Add</i> 7,226.10      | 7,226.10                  |                         |
| 01 22 23 00-0683 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,078.09<br>Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.<br><i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 539.05<br><i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,078.09         | 1,078.09                  |                         |
| 01 22 23 00-0684 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,505.82<br>Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.<br><i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,252.91<br><i>For &gt;80 Hours Usage Per Week, Add</i> 2,505.82           | 2,505.82                  |                         |
| 01 22 23 00-0685 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,459.20<br>Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.<br><i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,729.60<br><i>For &gt;320 Hours Usage Per Month, Add</i> 7,459.20      | 7,459.20                  |                         |
| 01 22 23 00-0686 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,113.05<br>Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.<br><i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 556.53<br><i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,113.05        | 1,113.05                  |                         |
| 01 22 23 00-0687 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,680.65<br>Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.<br><i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,340.33<br><i>For &gt;80 Hours Usage Per Week, Add</i> 2,680.65          | 2,680.65                  |                         |
| 01 22 23 00-0688 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,925.40<br>Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.<br><i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,962.70<br><i>For &gt;320 Hours Usage Per Month, Add</i> 7,925.40     | 7,925.40                  |                         |
| 01 22 23 00-0689 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,165.50<br>Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.<br><i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 582.75<br><i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,165.50        | 1,165.50                  |                         |
| 01 22 23 00-0690 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....3,030.30<br>Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.<br><i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,515.15<br><i>For &gt;80 Hours Usage Per Week, Add</i> 3,030.30          | 3,030.30                  |                         |
| 01 22 23 00-0691 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....8,741.25<br>Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.<br><i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 4,370.63<br><i>For &gt;320 Hours Usage Per Month, Add</i> 8,741.25     | 8,741.25                  |                         |
| 01 22 23 00-0692 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,108.92<br>Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.<br><i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 1,054.46<br><i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 2,108.92      | 2,108.92                  |                         |
| 01 22 23 00-0693 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,452.56<br>Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.<br><i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 2,726.28<br><i>For &gt;80 Hours Usage Per Week, Add</i> 5,452.56          | 5,452.56                  |                         |
| 01 22 23 00-0694 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....14,420.00<br>Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.<br><i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 7,210.00<br><i>For &gt;320 Hours Usage Per Month, Add</i> 14,420.00   | 14,420.00                 |                         |
| 01 22 23 00-0695 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set .....2,703.75<br>Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.<br><i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 1,351.88<br><i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 2,703.75    | 2,703.75                  |                         |
| 01 22 23 00-0696 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set .....7,029.75<br>Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.<br><i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 3,514.88<br><i>For &gt;80 Hours Usage Per Week, Add</i> 7,029.75        | 7,029.75                  |                         |
| 01 22 23 00-0697 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set .....16,222.50<br>Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.<br><i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 8,111.25<br><i>For &gt;320 Hours Usage Per Month, Add</i> 16,222.50 | 16,222.50                 |                         |

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| <b>01</b> | <b>01</b>    | <b>General Requirements</b>         |
|           | <b>01 20</b> | <b>Price and Payment Procedures</b> |
|           | <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0698 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....  | 3,343.64                  |                         |
| Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add  | 1,671.82                  |                         |
| For >16 To 24 Hours Usage Per Day, Add   | 3,343.64                  |                         |
| 01 22 23 00-0699 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....   | 8,832.25                  |                         |
| Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add  | 4,416.13                  |                         |
| For >80 Hours Usage Per Week, Add  | 8,832.25                  |                         |
| 01 22 23 00-0700 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....   | 21,630.00                 |                         |
| Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add   | 10,815.00                 |                         |
| For >320 Hours Usage Per Month, Add  | 21,630.00                 |                         |
| 01 22 23 00-0701 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....  | 3,614.01                  |                         |
| Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. |                           |                         |
| For >8 To 16 Hours Usage Per Day, Add  | 1,807.01                  |                         |
| For >16 To 24 Hours Usage Per Day, Add   | 3,614.01                  |                         |
| 01 22 23 00-0702 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....   | 8,327.55                  |                         |
| Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. |                           |                         |
| For >40 To 80 Hours Usage Per Week, Add  | 4,163.78                  |                         |
| For >80 Hours Usage Per Week, Add  | 8,327.55                  |                         |
| 01 22 23 00-0703 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....   | 24,982.65                 |                         |
| Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. |                           |                         |
| For >160 To 320 Hours Usage Per Month, Add   | 12,491.33                 |                         |
| For >320 Hours Usage Per Month, Add  | 24,982.65                 |                         |
| 01 22 23 00-0704 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....                                      | 926.18                    |                         |
| 01 22 23 00-0705 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....                                     | 1,502.72                  |                         |
| <b>01 22 23 00-0706 Cabling For Generator Sets (01 22 23 00-0626)</b>  |                           |                         |
| Note: Includes delivery to job site and pick-up when complete.   |                           |                         |
| 01 22 23 00-0707 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set.....   | 25.64                     |                         |
| 01 22 23 00-0708 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set.....  | 44.87                     |                         |
| 01 22 23 00-0709 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set.....  | 134.62                    |                         |
| 01 22 23 00-0710 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....   | 12.82                     |                         |
| 01 22 23 00-0711 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....  | 37.30                     |                         |
| 01 22 23 00-0712 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....  | 103.73                    |                         |
| <b>01 22 23 00-0713 Generator Accessories (01 22 23 00-0626)</b>   |                           |                         |
| Note: Includes delivery to job site and pick-up when complete.   |                           |                         |
| <b>01 22 23 00-0714 Step Down Transformer (01 22 23 00-0713)</b>   |                           |                         |
| 01 22 23 00-0715 WK 75 KVA, 480-208 Volt, Step Down Transformer.....   | 343.82                    |                         |
| 01 22 23 00-0716 MO 75 KVA, 480-208 Volt, Step Down Transformer.....   | 961.54                    |                         |
| 01 22 23 00-0717 WK 150 KVA, 480-208 Volt, Step Down Transformer.....  | 551.28                    |                         |
| 01 22 23 00-0718 MO 150 KVA, 480-208 Volt, Step Down Transformer.....  | 1,652.68                  |                         |
| 01 22 23 00-0719 WK 225 KVA, 480-208 Volt, Step Down Transformer.....  | 734.26                    |                         |
| 01 22 23 00-0720 MO 225 KVA, 480-208 Volt, Step Down Transformer.....  | 2,202.80                  |                         |
| 01 22 23 00-0721 WK 500 KVA, 480-208 Volt, Step Down Transformer.....  | 874.12                    |                         |
| 01 22 23 00-0722 MO 500 KVA, 480-208 Volt, Step Down Transformer.....  | 2,622.38                  |                         |
| 01 22 23 00-0723 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....  | 1,305.36                  |                         |
| 01 22 23 00-0724 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....  | 3,898.60                  |                         |
| 01 22 23 00-0725 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....  | 2,121.21                  |                         |
| 01 22 23 00-0726 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....  | 6,357.80                  |                         |
| 01 22 23 00-0727 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....   | 2,447.55                  |                         |
| 01 22 23 00-0728 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....   | 7,342.65                  |                         |
| <b>01 22 23 00-0729 Portable Panel (01 22 23 00-0713)</b>  |                           |                         |
| 01 22 23 00-0730 WK 100 Amperes, Portable Panel.....   | 273.89                    |                         |
| 01 22 23 00-0731 MO 100 Amperes, Portable Panel.....   | 699.30                    |                         |
| 01 22 23 00-0732 WK 200 Amperes, Portable Panel.....   | 327.51                    |                         |
| 01 22 23 00-0733 MO 200 Amperes, Portable Panel.....   | 874.12                    |                         |
| 01 22 23 00-0734 WK 400 Amperes, Portable Panel.....   | 349.65                    |                         |
| 01 22 23 00-0735 MO 400 Amperes, Portable Panel.....   | 1,048.95                  |                         |
| <b>01 22 23 00-0736 Portable Fusible Disconnect (01 22 23 00-0713)</b>   |                           |                         |
| 01 22 23 00-0737 WK 100 - 200 Amperes, Portable Fusible Disconnect.....  | 122.38                    |                         |
| 01 22 23 00-0738 MO 100 - 200 Amperes, Portable Fusible Disconnect.....  | 367.13                    |                         |
| 01 22 23 00-0739 WK 300 - 400 Amperes, Portable Fusible Disconnect.....  | 244.76                    |                         |
| 01 22 23 00-0740 MO 300 - 400 Amperes, Portable Fusible Disconnect.....  | 734.26                    |                         |
| <b>01 22 23 00-0741 Portable Transfer Switch (01 22 23 00-0713)</b>  |                           |                         |
| 01 22 23 00-0742 WK 100 Amperes, 480 Volt, Portable Transfer Switch.....   | 367.13                    |                         |
| 01 22 23 00-0743 MO 100 Amperes, 480 Volt, Portable Transfer Switch.....   | 1,101.40                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0744 WK 200 Amperes, 480 Volt, Portable Transfer Switch .....   | 489.51                    |                         |
| 01 22 23 00-0745 MO 200 Amperes, 480 Volt, Portable Transfer Switch .....   | 1,468.53                  |                         |
| 01 22 23 00-0746 WK 400 Amperes, 480 Volt, Portable Transfer Switch .....   | 611.89                    |                         |
| 01 22 23 00-0747 MO 400 Amperes, 480 Volt, Portable Transfer Switch .....   | 1,835.66                  |                         |
| <b>01 22 23 00-0748 Resistive Loadbanks For Generator Sets</b> <small>(01 22 23 00-0626)</small>  |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0769 for reimbursable fuel fees.</small>  |                           |                         |
| 01 22 23 00-0749 DAY 100 KW A/C Resistive Loadbank .....  | 358.17                    |                         |
| 01 22 23 00-0750 WK 100 KW A/C Resistive Loadbank .....   | 681.23                    |                         |
| 01 22 23 00-0751 MO 100 KW A/C Resistive Loadbank .....   | 1,861.08                  |                         |
| 01 22 23 00-0752 DAY 650 KW A/C Resistive Loadbank .....  | 765.04                    |                         |
| 01 22 23 00-0753 WK 650 KW A/C Resistive Loadbank .....   | 2,045.91                  |                         |
| 01 22 23 00-0754 MO 650 KW A/C Resistive Loadbank .....   | 5,216.21                  |                         |
| <b>01 22 23 00-0755 Sub-Distribution Panels (Spider Box) For Generator Sets</b> <small>(01 22 23 00-0626)</small>   |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete.</small>   |                           |                         |
| 01 22 23 00-0756 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box) .....  | 62.94                     |                         |
| 01 22 23 00-0757 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box) .....   | 163.17                    |                         |
| 01 22 23 00-0758 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box) .....   | 460.37                    |                         |
| <b>01 22 23 00-0759 Portable Distribution Panels For Generator Sets</b> <small>(01 22 23 00-0626)</small>   |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete.</small>   |                           |                         |
| 01 22 23 00-0760 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel .....   | 139.86                    |                         |
| 01 22 23 00-0761 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel .....  | 378.79                    |                         |
| 01 22 23 00-0762 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel .....  | 1,060.60                  |                         |
| 01 22 23 00-0763 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel .....  | 114.22                    |                         |
| 01 22 23 00-0764 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel .....   | 297.20                    |                         |
| 01 22 23 00-0765 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel .....   | 844.99                    |                         |
| 01 22 23 00-0766 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel .....  | 145.69                    |                         |
| 01 22 23 00-0767 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel .....   | 367.13                    |                         |
| 01 22 23 00-0768 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel .....   | 996.50                    |                         |
| <b>01 22 23 00-0769 Fuel Reimbursement For Generators</b> <small>(01 22 23 00-0626)</small>   |                           |                         |
| 01 22 23 00-0770 EA Fuel Reimbursement For Generators .....   | 1.00                      |                         |
| <small>Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.</small> |                           |                         |
| <b>01 22 23 00-0771 Portable Floor Drying Fans</b> <small>(01 22 23 00-0611)</small>  |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete. Excludes operator.</small>  |                           |                         |
| 01 22 23 00-0772 DAY 2,250 CFM Portable Floor Drying Fan .....  | 31.35                     |                         |
| 01 22 23 00-0773 WK 2,250 CFM Portable Floor Drying Fan .....   | 144.97                    |                         |
| 01 22 23 00-0774 MO 2,250 CFM Portable Floor Drying Fan .....   | 479.98                    |                         |
| <b>01 22 23 00-0775 Welding Machines</b> <small>(01 22 23 00-0611)</small>  |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete. Excludes operator.</small>  |                           |                         |
| <b>01 22 23 00-0776 CC/CV Inverter Welder</b> <small>(01 22 23 00-0775)</small>   |                           |                         |
| <small>Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0769 for reimbursable fuel fees.</small>   |                           |                         |
| 01 22 23 00-0777 DAY 250 Amperes, CC Inverter Welder .....  | 43.29                     |                         |
| 01 22 23 00-0778 WK 250 Amperes, CC Inverter Welder .....   | 94.30                     |                         |
| 01 22 23 00-0779 MO 250 Amperes, CC Inverter Welder .....   | 285.99                    |                         |
| 01 22 23 00-0780 DAY 300 Amperes, CC/CV Inverter Welder .....   | 49.47                     |                         |
| 01 22 23 00-0781 WK 300 Amperes, CC/CV Inverter Welder .....  | 131.40                    |                         |
| 01 22 23 00-0782 MO 300 Amperes, CC/CV Inverter Welder .....  | 347.83                    |                         |
| 01 22 23 00-0783 DAY 350 Amperes, CC/CV Inverter Welder .....   | 51.01                     |                         |
| 01 22 23 00-0784 WK 350 Amperes, CC/CV Inverter Welder .....  | 134.49                    |                         |
| 01 22 23 00-0785 MO 350 Amperes, CC/CV Inverter Welder .....  | 378.75                    |                         |
| <b>01 22 23 00-0786 MIG Welder</b> <small>(01 22 23 00-0775)</small>  |                           |                         |
| <small>Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0769 for reimbursable fuel fees.</small>   |                           |                         |
| 01 22 23 00-0787 DAY 115 Volt MIG Welder .....  | 74.20                     |                         |
| 01 22 23 00-0788 WK 115 Volt MIG Welder .....   | 193.24                    |                         |
| 01 22 23 00-0789 MO 115 Volt MIG Welder .....   | 525.61                    |                         |
| <b>01 22 23 00-0790 Diesel Powered Towable Welding Machines</b> <small>(01 22 23 00-0775)</small>   |                           |                         |
| <small>Note: Includes delivery to job site and pick-up when complete. Excludes operator.</small>  |                           |                         |
| 01 22 23 00-0791 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine .....   | 139.13                    |                         |
| 01 22 23 00-0792 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine .....  | 340.10                    |                         |
| 01 22 23 00-0793 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine .....  | 811.60                    |                         |
| 01 22 23 00-0794 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine .....   | 185.51                    |                         |

|           |              |                                     |
|-----------|--------------|-------------------------------------|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>         |
|           | <b>01 20</b> | <b>Price and Payment Procedures</b> |
|           | <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0795 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine .....                        | 363.29                    |                         |
| 01 22 23 00-0796 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine .....                        | 848.70                    |                         |
| 01 22 23 00-0797 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine .....                       | 193.24                    |                         |
| 01 22 23 00-0798 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine .....                        | 386.48                    |                         |
| 01 22 23 00-0799 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine .....                        | 943.00                    |                         |
| <b>01 22 23 00-0800 General Equipment</b> <small>(01 22 23)</small>   |                           |                         |
| <b>01 22 23 00-0801 Jacks And Bracing</b> <small>(01 22 23 00-0800)</small>                                 |                           |                         |
| Note: Includes delivery to job site and pick-up when complete.  |                           |                         |
| <b>01 22 23 00-0802 Manual Hydraulic Jacks</b> <small>(01 22 23 00-0801)</small>                            |                           |                         |
| 01 22 23 00-0803 DAY 12 Ton Manual Hydraulic Bottle Jack .....  | 1.67                      |                         |
| 01 22 23 00-0804 WK 12 Ton Manual Hydraulic Bottle Jack .....   | 7.93                      |                         |
| 01 22 23 00-0805 MO 12 Ton Manual Hydraulic Bottle Jack .....   | 28.50                     |                         |
| 01 22 23 00-0806 DAY 20 Ton Manual Hydraulic Bottle Jack .....  | 2.92                      |                         |
| 01 22 23 00-0807 WK 20 Ton Manual Hydraulic Bottle Jack .....   | 9.18                      |                         |
| 01 22 23 00-0808 MO 20 Ton Manual Hydraulic Bottle Jack .....   | 34.76                     |                         |
| 01 22 23 00-0809 DAY 50 Ton Manual Hydraulic Bottle Jack .....  | 10.43                     |                         |
| 01 22 23 00-0810 WK 50 Ton Manual Hydraulic Bottle Jack .....   | 40.49                     |                         |
| 01 22 23 00-0811 MO 50 Ton Manual Hydraulic Bottle Jack .....   | 145.66                    |                         |
| 01 22 23 00-0812 DAY 100 Ton Manual Hydraulic Bottle Jack .....   | 14.61                     |                         |
| 01 22 23 00-0813 WK 100 Ton Manual Hydraulic Bottle Jack .....  | 58.43                     |                         |
| 01 22 23 00-0814 MO 100 Ton Manual Hydraulic Bottle Jack .....  | 210.46                    |                         |
| <b>01 22 23 00-0815 Manual Screw Jacks</b> <small>(01 22 23 00-0801)</small>                                |                           |                         |
| 01 22 23 00-0816 DAY 10 To 20 Ton Manual Screw Jack .....   | 17.63                     |                         |
| 01 22 23 00-0817 WK 10 To 20 Ton Manual Screw Jack .....  | 46.66                     |                         |
| 01 22 23 00-0818 MO 10 To 20 Ton Manual Screw Jack .....  | 139.98                    |                         |
| <b>01 22 23 00-0819 Pressure Washers</b> <small>(01 22 23 00-0800)</small>                                  |                           |                         |
| Note: Includes delivery to job site, pick-up when complete and full time operator.                          |                           |                         |
| 01 22 23 00-0820 DAY 2,000 PSI Pressure Washer With Full-Time Operator .....                                | 830.52                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -670.06                 |
| 01 22 23 00-0821 WK 2,000 PSI Pressure Washer With Full-Time Operator .....                                 | 3,757.64                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -3,350.32               |
| 01 22 23 00-0822 MO 2,000 PSI Pressure Washer With Full-Time Operator .....                                 | 15,554.85                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -14,518.04              |
| 01 22 23 00-0823 DAY 2,500 PSI Pressure Washer With Full-Time Operator .....                                | 830.52                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -670.06                 |
| 01 22 23 00-0824 WK 2,500 PSI Pressure Washer With Full-Time Operator .....                                 | 3,757.64                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -3,350.32               |
| 01 22 23 00-0825 MO 2,500 PSI Pressure Washer With Full-Time Operator .....                                 | 15,554.85                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -14,518.04              |
| 01 22 23 00-0826 DAY 3,000 PSI Pressure Washer With Full-Time Operator .....                                | 830.52                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -670.06                 |
| 01 22 23 00-0827 WK 3,000 PSI Pressure Washer With Full-Time Operator .....                                 | 3,757.64                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -3,350.32               |
| 01 22 23 00-0828 MO 3,000 PSI Pressure Washer With Full-Time Operator .....                                 | 15,554.85                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -14,518.04              |
| 01 22 23 00-0829 DAY 3,500 PSI Pressure Washer With Full-Time Operator .....                                | 842.86                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -670.06                 |
| 01 22 23 00-0830 WK 3,500 PSI Pressure Washer With Full-Time Operator .....                                 | 3,794.67                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -3,350.32               |
| 01 22 23 00-0831 MO 3,500 PSI Pressure Washer With Full-Time Operator .....                                 | 15,653.60                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -14,518.04              |
| 01 22 23 00-0832 DAY 4,000 PSI Pressure Washer With Full-Time Operator .....                                | 892.23                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -670.06                 |
| 01 22 23 00-0833 WK 4,000 PSI Pressure Washer With Full-Time Operator .....                                 | 3,955.13                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -3,350.32               |
| 01 22 23 00-0834 MO 4,000 PSI Pressure Washer With Full-Time Operator .....                                 | 16,209.03                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -14,518.04              |
| 01 22 23 00-0835 DAY 5,000 PSI Pressure Washer With Full-Time Operator .....                                | 916.92                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -670.06                 |
| 01 22 23 00-0836 WK 5,000 PSI Pressure Washer With Full-Time Operator .....                                 | 4,016.84                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -3,350.32               |
| 01 22 23 00-0837 MO 5,000 PSI Pressure Washer With Full-Time Operator .....                                 | 16,394.18                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   |                           | -14,518.04              |
| <b>01 22 23 00-0838 Confined Space Entry Equipment</b> <small>(01 22 23 00-0800)</small>                    |                           |                         |
| Note: Includes delivery to job site, set-up, and pick-up when complete.                                     |                           |                         |
| 01 22 23 00-0839 DAY Ventilation Equipment For Confined Space .....   | 43.67                     |                         |
| Note: Includes electric or gas blower and ventilation duct up to 25'.                                       |                           |                         |
| 01 22 23 00-0840 WK Ventilation Equipment For Confined Space .....  | 131.01                    |                         |
| Note: Includes electric or gas blower and ventilation duct up to 25'.                                       |                           |                         |
| 01 22 23 00-0841 MO Ventilation Equipment For Confined Space .....  | 390.96                    |                         |
| Note: Includes electric or gas blower and ventilation duct up to 25'.                                       |                           |                         |
| 01 22 23 00-0842 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly ..... | 63.75                     |                         |
| 01 22 23 00-0843 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....  | 191.26                    |                         |



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|---|------------------------|----------------------|
| 01 22 23 00-0844  | MO  |     | Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly..... | 573.79                 |                      |
| 01 22 23 00-0845  | DAY |     | Confined Space Air Monitor Personnel.....   | 854.61                 |                      |
| Note: Per person day.   |     |     |   |                        |                      |
| <b>01 22 23 00-0846</b>   |     |     | <b>Direct Fired Space Heaters</b> (01 22 23 00-0800)                                  |                        |                      |
| Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.  |     |     |   |                        |                      |
| 01 22 23 00-0847  | DAY |     | 150,000 BTU/Hour Space Heater.....  | 75.08                  |                      |
| 01 22 23 00-0848  | WK  |     | 150,000 BTU/Hour Space Heater.....  | 215.84                 |                      |
| 01 22 23 00-0849  | MO  |     | 150,000 BTU/Hour Space Heater.....  | 609.99                 |                      |
| 01 22 23 00-0850  | DAY |     | 500,000 BTU/Hour Space Heater.....  | 159.54                 |                      |
| 01 22 23 00-0851  | WK  |     | 500,000 BTU/Hour Space Heater.....  | 394.15                 |                      |
| 01 22 23 00-0852  | MO  |     | 500,000 BTU/Hour Space Heater.....  | 996.63                 |                      |
| <b>01 22 23 00-0853</b>   |     |     | <b>Trailer Mounted Brush Chipper</b> (01 22 23 00-0800)                               |                        |                      |
| Note: Includes delivery to job site and pick-up when complete.  |     |     |   |                        |                      |
| 01 22 23 00-0854  | DAY |     | 4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 236.59                 |                      |
| 01 22 23 00-0855  | WK  |     | 4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 565.76                 |                      |
| 01 22 23 00-0856  | MO  |     | 4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 1,738.42               |                      |
| 01 22 23 00-0857  | DAY |     | 6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 308.60                 |                      |
| 01 22 23 00-0858  | WK  |     | 6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 695.37                 |                      |
| 01 22 23 00-0859  | MO  |     | 6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 1,851.57               |                      |
| 01 22 23 00-0860  | DAY |     | 9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 576.04                 |                      |
| 01 22 23 00-0861  | WK  |     | 9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 1,296.10               |                      |
| 01 22 23 00-0862  | MO  |     | 9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....                | 3,456.26               |                      |
| 01 22 23 00-0863  | DAY |     | 12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....               | 562.21                 |                      |
| 01 22 23 00-0864  | WK  |     | 12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....               | 1,264.98               |                      |
| 01 22 23 00-0865  | MO  |     | 12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....               | 3,373.27               |                      |
| <b>01 22 23 00-0866</b>   |     |     | <b>Material Handling Equipment</b> (01 22 23)   |                        |                      |
| <b>01 22 23 00-0867</b>   |     |     | <b>Truck Mounted Hydraulic Cranes</b> (01 22 23 00-0866)                              |                        |                      |
| Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension. |     |     |   |                        |                      |
| 01 22 23 00-0868  | DAY |     | 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....                | 1,357.04               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0869  | WK  |     | 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....                | 5,923.91               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0870  | MO  |     | 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....                | 23,917.73              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0871  | DAY |     | 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....           | 1,472.73               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0872  | WK  |     | 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....           | 6,267.79               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0873  | MO  |     | 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....           | 24,946.13              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0874  | DAY |     | 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 1,588.43               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0875  | WK  |     | 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 6,611.66               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0876  | MO  |     | 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 25,974.53              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0877  | DAY |     | 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 1,742.69               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0878  | WK  |     | 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 7,074.44               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0879  | MO  |     | 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 27,356.44              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0880  | DAY |     | 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 1,884.09               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0881  | WK  |     | 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 8,032.13               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0882  | MO  |     | 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 30,226.96              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0883  | DAY |     | 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 2,218.33               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0884  | WK  |     | 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 9,227.65               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0885  | MO  |     | 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 33,816.08              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0886  | DAY |     | 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 2,430.43               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0887  | WK  |     | 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 9,973.24               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0888  | MO  |     | 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 36,057.99              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |
| 01 22 23 00-0889  | DAY |     | 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 2,597.55               |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -919.97                |                      |
| 01 22 23 00-0890  | WK  |     | 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 10,577.43              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -4,599.85              |                      |
| 01 22 23 00-0891  | MO  |     | 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....         | 37,867.98              |                      |
| For Equipment Without Operator, Deduct  |     |     |   | -19,932.68             |                      |



|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-0892 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 2,764.66                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0893 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 11,181.61                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0894 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 39,677.96                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0895 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 2,873.93                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0896 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 11,554.41                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0897 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 40,809.20                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0898 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 3,021.76                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0899 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 12,107.17                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0900 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 42,454.64                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0901 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 3,497.40                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| <i>For Half Day Usage, Deduct</i>  | -1,030.97                 |                         |
| 01 22 23 00-0902 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 13,620.85                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0903 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 46,995.67                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0904 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 3,825.20                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| <i>For Half Day Usage, Deduct</i>  | -1,162.09                 |                         |
| 01 22 23 00-0905 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 14,768.15                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0906 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 50,437.60                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0907 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 4,416.53                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| <i>For Half Day Usage, Deduct</i>  | -1,398.62                 |                         |
| 01 22 23 00-0908 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 16,837.81                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0909 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 56,646.56                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0910 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....  | 4,827.89                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| <i>For Half Day Usage, Deduct</i>  | -1,563.17                 |                         |
| 01 22 23 00-0911 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 18,277.57                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0912 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....   | 60,965.84                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| <br>   |                           |                         |
| <b>01 22 23 00-0913 Cable Controlled Lattice Boom, Mechanical Cranes</b> <small>(01 22 23 00-0866)</small>   |                           |                         |
| Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery. |                           |                         |
| 01 22 23 00-0914 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....                         | 2,462.57                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0915 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....                          | 10,101.79                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0916 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....                          | 36,438.50                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0917 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....                       | 3,651.66                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0918 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....                        | 12,081.46                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0919 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....                        | 42,377.51                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0920 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....                  | 3,844.48                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0921 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....                   | 13,489.08                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0922 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....                   | 46,599.09                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0923 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....                  | 4,230.13                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0924 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....                   | 14,896.71                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |
| 01 22 23 00-0925 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....                   | 50,815.53                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -19,932.68                |                         |
| 01 22 23 00-0926 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....                                   | 4,413.32                  |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -919.97                   |                         |
| 01 22 23 00-0927 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....                                    | 16,304.33                 |                         |
| <i>For Equipment Without Operator, Deduct</i>  | -4,599.85                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0928 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 55,042.26                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,932.68                |                         |
| 01 22 23 00-0929 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....    | 4,596.50                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -919.97                   |                         |
| 01 22 23 00-0930 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 17,711.95                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,599.85                 |                         |
| 01 22 23 00-0931 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 59,268.98                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,932.68                |                         |
| 01 22 23 00-0932 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....    | 5,200.69                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -919.97                   |                         |
| 01 22 23 00-0933 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 19,878.02                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,599.85                 |                         |
| 01 22 23 00-0934 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 65,758.18                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,932.68                |                         |
| 01 22 23 00-0935 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....    | 8,915.78                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -919.97                   |                         |
| 01 22 23 00-0936 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 33,118.67                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,599.85                 |                         |
| 01 22 23 00-0937 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....     | 105,495.56                |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -19,932.68                |                         |
| <br>  |                           |                         |
| <b>01 22 23 00-0938 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts</b> <small>(01 22 23 00-0866)</small>   |                           |                         |
| <i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>   |                           |                         |
| 01 22 23 00-0939 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....  | 1,508.67                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| 01 22 23 00-0940 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....   | 5,873.76                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| 01 22 23 00-0941 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....   | 21,958.91                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| 01 22 23 00-0942 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....  | 1,577.51                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| 01 22 23 00-0943 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....   | 6,028.66                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| 01 22 23 00-0944 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....   | 22,303.15                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| 01 22 23 00-0945 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....  | 1,560.30                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| 01 22 23 00-0946 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....   | 6,106.12                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| 01 22 23 00-0947 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....   | 22,819.51                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| 01 22 23 00-0948 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator ..... | 1,758.24                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| 01 22 23 00-0949 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....  | 6,622.48                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| 01 22 23 00-0950 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....  | 24,024.35                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <br>  |                           |                         |
| <b>01 22 23 00-0951 Straight Mast, Rough Terrain Construction Forklifts</b> <small>(01 22 23 00-0866)</small>               |                           |                         |
| <i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>   |                           |                         |
| 01 22 23 00-0952 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....              | 1,279.75                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 85.03                     |                         |
| 01 22 23 00-0953 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....               | 5,433.99                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 232.19                    |                         |
| 01 22 23 00-0954 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....               | 21,173.61                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 531.42                    |                         |
| 01 22 23 00-0955 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....              | 1,302.12                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 89.50                     |                         |
| 01 22 23 00-0956 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....               | 5,495.09                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 244.41                    |                         |
| 01 22 23 00-0957 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....               | 21,313.46                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 559.39                    |                         |
| 01 22 23 00-0958 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....              | 1,422.61                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 113.60                    |                         |
| 01 22 23 00-0959 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....               | 5,830.73                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 311.54                    |                         |
| 01 22 23 00-0960 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....               | 22,088.00                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 714.30                    |                         |
| 01 22 23 00-0961 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....             | 1,488.96                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 126.87                    |                         |
| 01 22 23 00-0962 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator .....              | 5,801.98                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 305.79                    |                         |

|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-0963 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator..... | 22,322.60                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 761.22                    |                         |
| <b>01 22 23 00-0964 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0866)</b>                      |                           |                         |
| Note: Includes full-time operator. Excludes delivery, set-up, and removal.                                    |                           |                         |
| 01 22 23 00-0965 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 1,216.06                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 72.29                     |                         |
| 01 22 23 00-0966 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....        | 5,099.22                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 165.24                    |                         |
| 01 22 23 00-0967 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....        | 20,495.89                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 395.88                    |                         |
| 01 22 23 00-0968 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 1,224.67                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 74.01                     |                         |
| 01 22 23 00-0969 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....        | 5,125.03                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 170.40                    |                         |
| 01 22 23 00-0970 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....        | 20,556.13                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 407.92                    |                         |
| 01 22 23 00-0971 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 1,405.39                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 110.16                    |                         |
| 01 22 23 00-0972 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....        | 5,520.91                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 249.57                    |                         |
| 01 22 23 00-0973 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....        | 21,528.61                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 602.42                    |                         |
| 01 22 23 00-0974 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....      | 1,422.61                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 113.60                    |                         |
| 01 22 23 00-0975 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 5,667.21                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 278.83                    |                         |
| 01 22 23 00-0976 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 22,044.97                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 705.69                    |                         |
| 01 22 23 00-0977 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....      | 1,577.51                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -854.61                   |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 144.58                    |                         |
| 01 22 23 00-0978 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 5,916.79                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -4,273.04                 |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 328.75                    |                         |
| 01 22 23 00-0979 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....       | 22,475.27                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -18,516.51                |                         |
| <i>For Propane Instead Of Gas Or Diesel, Add</i>  | 791.75                    |                         |
| <b>01 22 23 00-0980 Chain Hoists (01 22 23 00-0866)</b>   |                           |                         |
| Note: Includes delivery to job site and pick-up when complete.  |                           |                         |
| 01 22 23 00-0981 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....   | 12.52                     |                         |
| 01 22 23 00-0982 WK 1 Ton, 20' Lift, Manual Chain Hoist.....  | 32.55                     |                         |
| 01 22 23 00-0983 MO 1 Ton, 20' Lift, Manual Chain Hoist.....  | 96.40                     |                         |
| 01 22 23 00-0984 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....   | 35.06                     |                         |
| 01 22 23 00-0985 WK 3 Ton, 20' Lift, Manual Chain Hoist.....  | 82.63                     |                         |
| 01 22 23 00-0986 MO 3 Ton, 20' Lift, Manual Chain Hoist.....  | 231.62                    |                         |
| 01 22 23 00-0987 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....   | 45.07                     |                         |
| 01 22 23 00-0988 WK 5 Ton, 20' Lift, Manual Chain Hoist.....  | 121.44                    |                         |
| 01 22 23 00-0989 MO 5 Ton, 20' Lift, Manual Chain Hoist.....  | 338.04                    |                         |
| 01 22 23 00-0990 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....              | 88.89                     |                         |
| 01 22 23 00-0991 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....               | 231.62                    |                         |
| 01 22 23 00-0992 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....               | 626.00                    |                         |
| 01 22 23 00-0993 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....              | 90.14                     |                         |
| 01 22 23 00-0994 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....               | 241.01                    |                         |
| 01 22 23 00-0995 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....               | 657.30                    |                         |
| 01 22 23 00-0996 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....              | 92.65                     |                         |
| 01 22 23 00-0997 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....               | 259.79                    |                         |
| 01 22 23 00-0998 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....               | 719.90                    |                         |
| <b>01 22 23 00-0999 Roof Swing Hoist (01 22 23 00-0866)</b>   |                           |                         |
| Note: Includes delivery to job site and pick-up when complete.  |                           |                         |
| 01 22 23 00-1000 DAY Up To 400 Lbs, Manual Swing Roof Hoist.....  | 99.66                     |                         |
| 01 22 23 00-1001 WK Up To 400 Lbs, Manual Swing Roof Hoist.....   | 348.83                    |                         |
| 01 22 23 00-1002 MO Up To 400 Lbs, Manual Swing Roof Hoist.....   | 1,195.98                  |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 01 22 23 00-1003 |       |     |     | <b>Truck Mounted Digger Derrick</b> (01 22 23 00-0866)<br>Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.                              |                        |                      |
| 01 22 23 00-1004 | DAY   |     |     | Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 1,528.50<br>Note: Includes lifting boom, grapple arm and auger drill.  | 1,528.50               |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -919.97   | -919.97                |                      |
| 01 22 23 00-1005 | WK    |     |     | Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 6,425.44<br>Note: Includes lifting boom, grapple arm and auger drill.  | 6,425.44               |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -4,599.85   | -4,599.85              |                      |
| 01 22 23 00-1006 | MO    |     |     | Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 24,800.91<br>Note: Includes lifting boom, grapple arm and auger drill. | 24,800.91              |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -19,932.68  | -19,932.68             |                      |
| 01 22 23 00-1007 | DAY   |     |     | Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 1,653.58<br>Note: Includes lifting boom, grapple arm and auger drill.  | 1,653.58               |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -919.97   | -919.97                |                      |
| 01 22 23 00-1008 | WK    |     |     | Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 6,800.67<br>Note: Includes lifting boom, grapple arm and auger drill.  | 6,800.67               |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -4,599.85   | -4,599.85              |                      |
| 01 22 23 00-1009 | MO    |     |     | Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 25,801.54<br>Note: Includes lifting boom, grapple arm and auger drill. | 25,801.54              |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -19,932.68  | -19,932.68             |                      |
| 01 22 23 00-1010 | DAY   |     |     | Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 2,426.49<br>Note: Includes lifting boom, grapple arm and auger drill.  | 2,426.49               |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -919.97   | -919.97                |                      |
| 01 22 23 00-1011 | WK    |     |     | Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 9,119.40<br>Note: Includes lifting boom, grapple arm and auger drill.  | 9,119.40               |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -4,599.85   | -4,599.85              |                      |
| 01 22 23 00-1012 | MO    |     |     | Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator ..... 31,984.82<br>Note: Includes lifting boom, grapple arm and auger drill. | 31,984.82              |                      |
|                  |       |     |     | <i>For Equipment Without Operator, Deduct</i> ..... -19,932.68  | -19,932.68             |                      |
| 01 22 23 00-1013 |       |     |     | <b>Pumping Equipment</b> (01 22 23)   |                        |                      |
| 01 22 23 00-1014 |       |     |     | <b>Gas Powered Portable Centrifugal Pumps</b> (01 22 23 00-1013)<br>Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1038 for larger diameter pumps.            |                        |                      |
| 01 22 23 00-1015 | DAY   |     |     | 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump ..... 72.56   | 72.56                  |                      |
| 01 22 23 00-1016 | WK    |     |     | 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump ..... 163.27  | 163.27                 |                      |
| 01 22 23 00-1017 | MO    |     |     | 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump ..... 435.38  | 435.38                 |                      |
| 01 22 23 00-1018 | DAY   |     |     | 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump ..... 87.08   | 87.08                  |                      |
| 01 22 23 00-1019 | WK    |     |     | 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump ..... 195.92  | 195.92                 |                      |
| 01 22 23 00-1020 | MO    |     |     | 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump ..... 522.46  | 522.46                 |                      |
| 01 22 23 00-1021 |       |     |     | <b>Gas Powered Portable Diaphragm Pumps</b> (01 22 23 00-1013)<br>Note: Includes delivery, set-up, and removal. Excludes operator.  |                        |                      |
| 01 22 23 00-1022 | DAY   |     |     | 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump ..... 83.45  | 83.45                  |                      |
| 01 22 23 00-1023 | WK    |     |     | 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump ..... 235.83   | 235.83                 |                      |
| 01 22 23 00-1024 | MO    |     |     | 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump ..... 598.65   | 598.65                 |                      |
| 01 22 23 00-1025 | DAY   |     |     | 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump ..... 101.59   | 101.59                 |                      |
| 01 22 23 00-1026 | WK    |     |     | 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump ..... 272.12   | 272.12                 |                      |
| 01 22 23 00-1027 | MO    |     |     | 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump ..... 770.99   | 770.99                 |                      |
| 01 22 23 00-1028 |       |     |     | <b>Gas Powered Portable Trash Pumps</b> (01 22 23 00-1013)<br>Note: Includes delivery, set-up, and removal. Excludes operator.  |                        |                      |
| 01 22 23 00-1029 | DAY   |     |     | 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump ..... 105.22   | 105.22                 |                      |
| 01 22 23 00-1030 | WK    |     |     | 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump ..... 217.69   | 217.69                 |                      |
| 01 22 23 00-1031 | MO    |     |     | 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump ..... 653.08   | 653.08                 |                      |
| 01 22 23 00-1032 | DAY   |     |     | 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump ..... 105.22  | 105.22                 |                      |
| 01 22 23 00-1033 | WK    |     |     | 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump ..... 281.19  | 281.19                 |                      |
| 01 22 23 00-1034 | MO    |     |     | 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump ..... 770.99  | 770.99                 |                      |
| 01 22 23 00-1035 | DAY   |     |     | 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump ..... 166.90   | 166.90                 |                      |
| 01 22 23 00-1036 | WK    |     |     | 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump ..... 471.67   | 471.67                 |                      |
| 01 22 23 00-1037 | MO    |     |     | 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump ..... 1,369.65   | 1,369.65               |                      |
| 01 22 23 00-1038 |       |     |     | <b>Diesel Powered Portable Trash Pumps</b> (01 22 23 00-1013)<br>Note: Includes delivery, set-up, and removal. Excludes operator.   |                        |                      |
| 01 22 23 00-1039 | DAY   |     |     | 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump ..... 326.54  | 326.54                 |                      |
| 01 22 23 00-1040 | WK    |     |     | 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump ..... 888.91  | 888.91                 |                      |
| 01 22 23 00-1041 | MO    |     |     | 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump ..... 3,873.10  | 3,873.10               |                      |
| 01 22 23 00-1042 | DAY   |     |     | 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump ..... 498.88   | 498.88                 |                      |
| 01 22 23 00-1043 | WK    |     |     | 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump ..... 1,306.15   | 1,306.15               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-1044 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....                          | 3,474.00                  |                         |
| 01 22 23 00-1045 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....                        | 678.47                    |                         |
| 01 22 23 00-1046 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....                         | 1,815.91                  |                         |
| 01 22 23 00-1047 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump .....                         | 4,858.16                  |                         |
| 01 22 23 00-1048 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump .....                        | 878.02                    |                         |
| 01 22 23 00-1049 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump .....                         | 2,242.23                  |                         |
| 01 22 23 00-1050 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump .....                         | 6,585.18                  |                         |
| <b>01 22 23 00-1051 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1013)</b>                               |                           |                         |
| Note: Includes delivery, set-up, and removal. Excludes operator.  |                           |                         |
| 01 22 23 00-1052 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....   | 466.22                    |                         |
| 01 22 23 00-1053 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....    | 1,061.25                  |                         |
| 01 22 23 00-1054 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....    | 3,308.92                  |                         |
| 01 22 23 00-1055 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....  | 571.44                    |                         |
| 01 22 23 00-1056 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....   | 1,424.07                  |                         |
| 01 22 23 00-1057 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....   | 3,873.10                  |                         |
| 01 22 23 00-1058 DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump ..... | 689.36                    |                         |
| 01 22 23 00-1059 WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....  | 2,039.05                  |                         |
| 01 22 23 00-1060 MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....  | 5,687.20                  |                         |
| 01 22 23 00-1061 DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump ..... | 1,037.67                  |                         |
| 01 22 23 00-1062 WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....  | 2,650.40                  |                         |
| 01 22 23 00-1063 MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump .....  | 7,782.49                  |                         |
| <b>01 22 23 00-1064 3 Phase Electric Submersible Pumps (01 22 23 00-1013)</b>   |                           |                         |
| Note: Includes delivery, set-up, and removal. Excludes operator.  |                           |                         |
| 01 22 23 00-1065 DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump .....                            | 181.41                    |                         |
| 01 22 23 00-1066 WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump .....                             | 453.52                    |                         |
| 01 22 23 00-1067 MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump .....                             | 1,360.58                  |                         |
| 01 22 23 00-1068 DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump .....                            | 239.46                    |                         |
| 01 22 23 00-1069 WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump .....                             | 598.65                    |                         |
| 01 22 23 00-1070 MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump .....                             | 1,795.96                  |                         |
| <b>01 22 23 00-1071 Suction Hose With Couplings (01 22 23 00-1013)</b>  |                           |                         |
| Note: Includes delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-1072 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 5.28                      |                         |
| 01 22 23 00-1073 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 13.20                     |                         |
| 01 22 23 00-1074 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 40.48                     |                         |
| 01 22 23 00-1075 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 14.08                     |                         |
| 01 22 23 00-1076 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 36.08                     |                         |
| 01 22 23 00-1077 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 110.00                    |                         |
| 01 22 23 00-1078 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 21.12                     |                         |
| 01 22 23 00-1079 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 53.68                     |                         |
| 01 22 23 00-1080 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 162.80                    |                         |
| 01 22 23 00-1081 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 26.40                     |                         |
| 01 22 23 00-1082 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 66.00                     |                         |
| 01 22 23 00-1083 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 193.60                    |                         |
| 01 22 23 00-1084 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 61.60                     |                         |
| 01 22 23 00-1085 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 158.40                    |                         |
| 01 22 23 00-1086 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 466.40                    |                         |
| 01 22 23 00-1087 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings .....   | 82.72                     |                         |
| 01 22 23 00-1088 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 180.40                    |                         |
| 01 22 23 00-1089 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings .....  | 541.20                    |                         |
| <b>01 22 23 00-1090 Discharge Hose With Couplings (01 22 23 00-1013)</b>  |                           |                         |
| Note: Includes delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-1091 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....  | 5.28                      |                         |
| 01 22 23 00-1092 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 13.20                     |                         |
| 01 22 23 00-1093 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 40.48                     |                         |
| 01 22 23 00-1094 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....  | 6.16                      |                         |
| 01 22 23 00-1095 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 14.96                     |                         |
| 01 22 23 00-1096 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 46.64                     |                         |
| 01 22 23 00-1097 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings .....  | 7.04                      |                         |
| 01 22 23 00-1098 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 17.60                     |                         |
| 01 22 23 00-1099 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 53.68                     |                         |
| 01 22 23 00-1100 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings .....  | 18.48                     |                         |
| 01 22 23 00-1101 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 47.52                     |                         |
| 01 22 23 00-1102 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 136.40                    |                         |
| 01 22 23 00-1103 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings .....  | 22.88                     |                         |
| 01 22 23 00-1104 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 62.48                     |                         |
| 01 22 23 00-1105 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings .....   | 171.60                    |                         |
| 01 22 23 00-1106 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings .....   | 17.60                     |                         |
| 01 22 23 00-1107 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings .....  | 44.00                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-1108 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings .....   | 132.00                    |                         |
| 01 22 23 00-1109 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings .....  | 44.88                     |                         |
| 01 22 23 00-1110 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings .....   | 114.40                    |                         |
| 01 22 23 00-1111 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings .....   | 338.80                    |                         |
| <b>01 22 23 00-1112 Hydraulic Submersible Pumps (01 22 23 00-1013)</b><br>Note: Includes delivery, set-up, and removal. Excludes operator.                   |                           |                         |
| <b>01 22 23 00-1113 Hydraulic Submersible Pumps (01 22 23 00-1112)</b><br>Note: Includes delivery, set-up, and removal. Excludes operator.                   |                           |                         |
| 01 22 23 00-1114 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....   | 119.73                    |                         |
| 01 22 23 00-1115 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....  | 321.10                    |                         |
| 01 22 23 00-1116 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....  | 897.98                    |                         |
| 01 22 23 00-1117 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....   | 152.38                    |                         |
| 01 22 23 00-1118 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....  | 391.85                    |                         |
| 01 22 23 00-1119 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....  | 1,197.31                  |                         |
| <b>01 22 23 00-1120 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1112)</b><br>Note: Includes delivery, set-up, and removal. Excludes operator. |                           |                         |
| 01 22 23 00-1121 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack .....  | 276.65                    |                         |
| 01 22 23 00-1122 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack .....   | 825.42                    |                         |
| 01 22 23 00-1123 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack .....   | 2,176.92                  |                         |
| <b>01 22 23 00-1124 HDPE Pipe With Couplings (01 22 23 00-1013)</b><br>Note: Includes delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-1125 DAY 4" x 20' HDPE Pipe With Couplings .....   | 16.48                     |                         |
| 01 22 23 00-1126 WK 4" x 20' HDPE Pipe With Couplings .....  | 39.55                     |                         |
| 01 22 23 00-1127 MO 4" x 20' HDPE Pipe With Couplings .....  | 121.95                    |                         |
| 01 22 23 00-1128 DAY 6" x 20' HDPE Pipe With Couplings .....   | 26.37                     |                         |
| 01 22 23 00-1129 WK 6" x 20' HDPE Pipe With Couplings .....  | 65.92                     |                         |
| 01 22 23 00-1130 MO 6" x 20' HDPE Pipe With Couplings .....  | 201.05                    |                         |
| 01 22 23 00-1131 DAY 8" x 20' HDPE Pipe With Couplings .....   | 42.85                     |                         |
| 01 22 23 00-1132 WK 8" x 20' HDPE Pipe With Couplings .....  | 112.06                    |                         |
| 01 22 23 00-1133 MO 8" x 20' HDPE Pipe With Couplings .....  | 332.89                    |                         |
| 01 22 23 00-1134 DAY 10" x 20' HDPE Pipe With Couplings .....  | 52.73                     |                         |
| 01 22 23 00-1135 WK 10" x 20' HDPE Pipe With Couplings .....   | 135.13                    |                         |
| 01 22 23 00-1136 MO 10" x 20' HDPE Pipe With Couplings .....   | 411.99                    |                         |
| 01 22 23 00-1137 DAY 12" x 10' HDPE Pipe With Couplings .....  | 39.55                     |                         |
| 01 22 23 00-1138 WK 12" x 10' HDPE Pipe With Couplings .....   | 108.76                    |                         |
| 01 22 23 00-1139 MO 12" x 10' HDPE Pipe With Couplings .....   | 329.59                    |                         |
| 01 22 23 00-1140 DAY 4" Elbow For HDPE Pipe, Quick Connect .....   | 39.55                     |                         |
| 01 22 23 00-1141 WK 4" Elbow For HDPE Pipe, Quick Connect .....  | 102.17                    |                         |
| 01 22 23 00-1142 MO 4" Elbow For HDPE Pipe, Quick Connect .....  | 303.22                    |                         |
| 01 22 23 00-1143 DAY 6" Elbow For HDPE Pipe, Quick Connect .....   | 46.14                     |                         |
| 01 22 23 00-1144 WK 6" Elbow For HDPE Pipe, Quick Connect .....  | 118.65                    |                         |
| 01 22 23 00-1145 MO 6" Elbow For HDPE Pipe, Quick Connect .....  | 362.55                    |                         |
| 01 22 23 00-1146 DAY 8" Elbow For HDPE Pipe, Quick Connect .....   | 52.73                     |                         |
| 01 22 23 00-1147 WK 8" Elbow For HDPE Pipe, Quick Connect .....  | 135.13                    |                         |
| 01 22 23 00-1148 MO 8" Elbow For HDPE Pipe, Quick Connect .....  | 411.99                    |                         |
| 01 22 23 00-1149 DAY 10" Elbow For HDPE Pipe, Quick Connect .....  | 65.92                     |                         |
| 01 22 23 00-1150 WK 10" Elbow For HDPE Pipe, Quick Connect .....   | 168.09                    |                         |
| 01 22 23 00-1151 MO 10" Elbow For HDPE Pipe, Quick Connect .....   | 510.86                    |                         |
| 01 22 23 00-1152 DAY 12" Elbow For HDPE Pipe, Quick Connect .....  | 65.92                     |                         |
| 01 22 23 00-1153 WK 12" Elbow For HDPE Pipe, Quick Connect .....   | 168.09                    |                         |
| 01 22 23 00-1154 MO 12" Elbow For HDPE Pipe, Quick Connect .....   | 510.86                    |                         |
| 01 22 23 00-1155 DAY 4" Tee For HDPE Pipe, Quick Connect .....   | 39.55                     |                         |
| 01 22 23 00-1156 WK 4" Tee For HDPE Pipe, Quick Connect .....  | 102.17                    |                         |
| 01 22 23 00-1157 MO 4" Tee For HDPE Pipe, Quick Connect .....  | 303.22                    |                         |
| 01 22 23 00-1158 DAY 6" Tee For HDPE Pipe, Quick Connect .....   | 52.73                     |                         |
| 01 22 23 00-1159 WK 6" Tee For HDPE Pipe, Quick Connect .....  | 135.13                    |                         |
| 01 22 23 00-1160 MO 6" Tee For HDPE Pipe, Quick Connect .....  | 411.99                    |                         |
| 01 22 23 00-1161 DAY 8" Tee For HDPE Pipe, Quick Connect .....   | 65.92                     |                         |
| 01 22 23 00-1162 WK 8" Tee For HDPE Pipe, Quick Connect .....  | 168.09                    |                         |
| 01 22 23 00-1163 MO 8" Tee For HDPE Pipe, Quick Connect .....  | 510.86                    |                         |
| 01 22 23 00-1164 DAY 10" Tee For HDPE Pipe, Quick Connect .....  | 79.10                     |                         |
| 01 22 23 00-1165 WK 10" Tee For HDPE Pipe, Quick Connect .....   | 201.05                    |                         |
| 01 22 23 00-1166 MO 10" Tee For HDPE Pipe, Quick Connect .....   | 609.74                    |                         |
| 01 22 23 00-1167 DAY 12" Tee For HDPE Pipe, Quick Connect .....  | 79.10                     |                         |
| 01 22 23 00-1168 WK 12" Tee For HDPE Pipe, Quick Connect .....   | 201.05                    |                         |
| 01 22 23 00-1169 MO 12" Tee For HDPE Pipe, Quick Connect .....   | 609.74                    |                         |
| 01 22 23 00-1170 DAY 4" Cap For HDPE Pipe, Quick Connect .....   | 6.59                      |                         |
| 01 22 23 00-1171 WK 4" Cap For HDPE Pipe, Quick Connect .....  | 19.78                     |                         |
| 01 22 23 00-1172 MO 4" Cap For HDPE Pipe, Quick Connect .....  | 59.33                     |                         |
| 01 22 23 00-1173 DAY 6" Cap For HDPE Pipe, Quick Connect .....   | 6.59                      |                         |
| 01 22 23 00-1174 WK 6" Cap For HDPE Pipe, Quick Connect .....  | 19.78                     |                         |
| 01 22 23 00-1175 MO 6" Cap For HDPE Pipe, Quick Connect .....  | 59.33                     |                         |
| 01 22 23 00-1176 DAY 8" Cap For HDPE Pipe, Quick Connect .....   | 6.59                      |                         |
| 01 22 23 00-1177 WK 8" Cap For HDPE Pipe, Quick Connect .....  | 19.78                     |                         |
| 01 22 23 00-1178 MO 8" Cap For HDPE Pipe, Quick Connect .....  | 59.33                     |                         |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |     |                                      |        |  |
|------------------|-----|--------------------------------------|--------|--|
| 01 22 23 00-1179 | DAY | 10" Cap For HDPE Pipe, Quick Connect | 6.59   |  |
| 01 22 23 00-1180 | WK  | 10" Cap For HDPE Pipe, Quick Connect | 19.78  |  |
| 01 22 23 00-1181 | MO  | 10" Cap For HDPE Pipe, Quick Connect | 59.33  |  |
| 01 22 23 00-1182 | DAY | 12" Cap For HDPE Pipe, Quick Connect | 6.59   |  |
| 01 22 23 00-1183 | WK  | 12" Cap For HDPE Pipe, Quick Connect | 19.78  |  |
| 01 22 23 00-1184 | MO  | 12" Cap For HDPE Pipe, Quick Connect | 59.33  |  |
| 01 22 23 00-1185 | DAY | 4" Wye For HDPE Pipe, Quick Connect  | 19.78  |  |
| 01 22 23 00-1186 | WK  | 4" Wye For HDPE Pipe, Quick Connect  | 49.44  |  |
| 01 22 23 00-1187 | MO  | 4" Wye For HDPE Pipe, Quick Connect  | 151.61 |  |
| 01 22 23 00-1188 | DAY | 6" Wye For HDPE Pipe, Quick Connect  | 23.07  |  |
| 01 22 23 00-1189 | WK  | 6" Wye For HDPE Pipe, Quick Connect  | 59.33  |  |
| 01 22 23 00-1190 | MO  | 6" Wye For HDPE Pipe, Quick Connect  | 181.27 |  |
| 01 22 23 00-1191 | DAY | 8" Wye For HDPE Pipe, Quick Connect  | 39.55  |  |
| 01 22 23 00-1192 | WK  | 8" Wye For HDPE Pipe, Quick Connect  | 102.17 |  |
| 01 22 23 00-1193 | MO  | 8" Wye For HDPE Pipe, Quick Connect  | 303.22 |  |
| 01 22 23 00-1194 | DAY | 10" Wye For HDPE Pipe, Quick Connect | 59.33  |  |
| 01 22 23 00-1195 | WK  | 10" Wye For HDPE Pipe, Quick Connect | 151.61 |  |
| 01 22 23 00-1196 | MO  | 10" Wye For HDPE Pipe, Quick Connect | 461.43 |  |
| 01 22 23 00-1197 | DAY | 12" Wye For HDPE Pipe, Quick Connect | 59.33  |  |
| 01 22 23 00-1198 | WK  | 12" Wye For HDPE Pipe, Quick Connect | 151.61 |  |
| 01 22 23 00-1199 | MO  | 12" Wye For HDPE Pipe, Quick Connect | 461.43 |  |

**01 22 23 00-1200 Temporary Building Services (01 22 23)**

**01 22 23 00-1201 Boilers (01 22 23 00-1200)**

Note: Excludes operator, delivery, set-up, and removal.

**01 22 23 00-1202 Electric Boilers (01 22 23 00-1201)**

|                  |    |  |          |  |
|------------------|----|--|----------|--|
| 01 22 23 00-1203 | MO | 40 MBH, 12 KW Electric Boiler Rental   | 2,596.99 |  |
| 01 22 23 00-1204 | MO | 60 MBH, 20 KW Electric Boiler Rental   | 2,833.12 |  |
| 01 22 23 00-1205 | MO | 95 MBH, 30 KW Electric Boiler Rental   | 2,951.18 |  |
| 01 22 23 00-1206 | MO | 135 MBH, 40 KW Electric Boiler Rental  | 3,305.26 |  |
| 01 22 23 00-1207 | MO | 165 MBH, 50 KW Electric Boiler Rental  | 4,603.76 |  |
| 01 22 23 00-1208 | MO | 215 MBH, 60 KW Electric Boiler Rental  | 5,312.05 |  |
| 01 22 23 00-1209 | MO | 365 MBH, 100 KW Electric Boiler Rental | 6,964.74 |  |
| 01 22 23 00-1210 | MO | 510 MBH, 150 KW Electric Boiler Rental | 8,499.35 |  |

**01 22 23 00-1211 Oil/Gas Fired Boilers (01 22 23 00-1201)**

|                  |    |  |           |  |
|------------------|----|--|-----------|--|
| 01 22 23 00-1212 | MO | Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental      | 2,479.00  |  |
|                  |    | <i>For &gt;3 Months Rental, Deduct</i>             | -371.85   |  |
| 01 22 23 00-1213 | MO | >100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental | 3,222.70  |  |
|                  |    | <i>For &gt;3 Months Rental, Deduct</i>             | -483.41   |  |
| 01 22 23 00-1214 | MO | >250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental | 5,205.90  |  |
|                  |    | <i>For &gt;3 Months Rental, Deduct</i>             | -780.89   |  |
| 01 22 23 00-1215 | MO | >500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental | 7,189.10  |  |
|                  |    | <i>For &gt;3 Months Rental, Deduct</i>             | -1,078.37 |  |

**01 22 23 00-1216 Oil Fired Boilers (01 22 23 00-1201)**

|                  |    |                                |           |  |
|------------------|----|--------------------------------|-----------|--|
| 01 22 23 00-1217 | MO | 250 HP Oil Fired Boiler Rental | 7,293.67  |  |
| 01 22 23 00-1218 | MO | 350 HP Oil Fired Boiler Rental | 9,724.90  |  |
| 01 22 23 00-1219 | MO | 500 HP Oil Fired Boiler Rental | 12,156.12 |  |
| 01 22 23 00-1220 | MO | 600 HP Oil Fired Boiler Rental | 13,371.73 |  |

**01 22 23 00-1221 Boilers Setup (01 22 23 00-1201)**

|                  |    |   |          |  |
|------------------|----|---|----------|--|
| 01 22 23 00-1222 | EA | Setup Rental Boiler   | 7,720.14 |  |
|                  |    | Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane. |          |  |

**01 22 23 00-1223 Chillers (01 22 23 00-1200)**

Note: Excludes operator, delivery, set-up, and removal.

**01 22 23 00-1224 Air Cooled Chillers (01 22 23 00-1223)**

|                  |    |  |           |  |
|------------------|----|--|-----------|--|
| 01 22 23 00-1225 | MO | 25 Ton Air Cooled Chiller Rental           | 2,494.67  |  |
|                  |    | <i>For &gt;3 To 6 Month Rental, Deduct</i> | -374.20   |  |
|                  |    | <i>For &gt;6 Month Rental, Deduct</i>      | -623.67   |  |
| 01 22 23 00-1226 | MO | 40 Ton Air Cooled Chiller Rental           | 3,991.48  |  |
|                  |    | <i>For &gt;3 To 6 Month Rental, Deduct</i> | -598.72   |  |
|                  |    | <i>For &gt;6 Month Rental, Deduct</i>      | -997.87   |  |
| 01 22 23 00-1227 | MO | 60 Ton Air Cooled Chiller Rental           | 4,882.03  |  |
|                  |    | <i>For &gt;3 To 6 Month Rental, Deduct</i> | -732.30   |  |
|                  |    | <i>For &gt;6 Month Rental, Deduct</i>      | -1,220.51 |  |
| 01 22 23 00-1228 | MO | 80 Ton Air Cooled Chiller Rental           | 5,772.58  |  |
|                  |    | <i>For &gt;3 To 6 Month Rental, Deduct</i> | -865.89   |  |
|                  |    | <i>For &gt;6 Month Rental, Deduct</i>      | -1,443.15 |  |
| 01 22 23 00-1229 | MO | 100 Ton Air Cooled Chiller Rental          | 6,663.13  |  |
|                  |    | <i>For &gt;3 To 6 Month Rental, Deduct</i> | -999.47   |  |
|                  |    | <i>For &gt;6 Month Rental, Deduct</i>      | -1,665.78 |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-1230 MO 125 Ton Air Cooled Chiller Rental .....   | 7,719.37                  |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -1,157.91                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -1,929.84                 |                         |
| 01 22 23 00-1231 MO 155 Ton Air Cooled Chiller Rental .....   | 9,338.54                  |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -1,400.78                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -2,334.64                 |                         |
| 01 22 23 00-1232 MO 170 Ton Air Cooled Chiller Rental .....   | 9,986.22                  |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -1,497.93                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -2,496.56                 |                         |
| 01 22 23 00-1233 MO 200 Ton Air Cooled Chiller Rental .....   | 11,471.73                 |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -1,720.76                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -2,867.93                 |                         |
| 01 22 23 00-1234 MO 250 Ton Air Cooled Chiller Rental .....   | 13,650.10                 |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -2,047.52                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -3,412.53                 |                         |
| 01 22 23 00-1235 MO 300 Ton Air Cooled Chiller Rental .....   | 15,928.25                 |                         |
| Note: Includes trailer.   |                           |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -2,389.24                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -3,982.06                 |                         |
| 01 22 23 00-1236 MO 400 Ton Air Cooled Chiller Rental .....   | 21,011.74                 |                         |
| Note: Includes trailer, pump and 200' of 6" hose.   |                           |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -3,151.76                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -5,252.94                 |                         |
| 01 22 23 00-1237 MO 500 Ton Air Cooled Chiller Rental .....   | 26,008.61                 |                         |
| Note: Includes trailer, pump and 200' of 6" hose.   |                           |                         |
| <i>For &gt;3 To 6 Month Rental, Deduct</i>  | -3,901.29                 |                         |
| <i>For &gt;6 Month Rental, Deduct</i>   | -6,502.15                 |                         |
| 01 22 23 00-1238 EA Setup Air Cooled Chiller Rental Unit.....   | 5,366.44                  |                         |
| Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded. |                           |                         |
| <b>01 22 23 00-1239 Chiller Rental Accessories (01 22 23 00-1233)</b>   |                           |                         |
| 01 22 23 00-1240 MO 4" x 25' Flexible Water Hose For Chiller Rental .....   | 44.45                     |                         |
| 01 22 23 00-1241 MO 6" x 25' Flexible Water Hose For Chiller Rental .....   | 55.56                     |                         |
| <b>01 22 23 00-1242 Cooling Tower (01 22 23 00-1200)</b>  |                           |                         |
| Note: Excludes operator, delivery, set-up, and removal.   |                           |                         |
| 01 22 23 00-1243 MO 100 Ton Cooling Tower Rental .....  | 2,289.28                  |                         |
| <i>For &gt;3 To 6 Months Rental, Deduct</i>   | -343.39                   |                         |
| <i>For &gt;6 Months Rental, Deduct</i>  | -572.32                   |                         |
| 01 22 23 00-1244 MO 200 Ton Cooling Tower Rental .....  | 4,167.38                  |                         |
| <i>For &gt;3 To 6 Months Rental, Deduct</i>   | -625.11                   |                         |
| <i>For &gt;6 Months Rental, Deduct</i>  | -1,041.85                 |                         |
| 01 22 23 00-1245 MO 250 Ton Cooling Tower Rental .....  | 4,719.36                  |                         |
| <i>For &gt;3 To 6 Months Rental, Deduct</i>   | -707.90                   |                         |
| <i>For &gt;6 Months Rental, Deduct</i>  | -1,179.84                 |                         |
| 01 22 23 00-1246 MO 300 Ton Cooling Tower Rental .....  | 5,334.24                  |                         |
| <i>For &gt;3 To 6 Months Rental, Deduct</i>   | -800.14                   |                         |
| <i>For &gt;6 Months Rental, Deduct</i>  | -1,333.56                 |                         |
| 01 22 23 00-1247 MO 400 Ton Cooling Tower Rental .....  | 6,667.80                  |                         |
| <i>For &gt;3 To 6 Months Rental, Deduct</i>   | -1,000.17                 |                         |
| <i>For &gt;6 Months Rental, Deduct</i>  | -1,666.95                 |                         |
| 01 22 23 00-1248 MO 500 Ton Cooling Tower Rental .....  | 7,795.80                  |                         |
| <i>For &gt;3 To 6 Months Rental, Deduct</i>   | -1,169.37                 |                         |
| <i>For &gt;6 Months Rental, Deduct</i>  | -1,948.95                 |                         |
| 01 22 23 00-1249 MO Setup Rental Cooling Tower.....   | 5,366.44                  |                         |
| Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.   |                           |                         |
| <b>01 22 23 00-1250 Emergency Cooler/Freezer (01 22 23 00-1200)</b>   |                           |                         |
| Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.  |                           |                         |
| 01 22 23 00-1251 DAY 8 x 6 x 7 Emergency Cooler Rental .....  | 126.92                    |                         |
| 01 22 23 00-1252 WK 8 x 6 x 7 Emergency Cooler Rental .....   | 676.88                    |                         |
| 01 22 23 00-1253 DAY 10 x 7 x 7 Emergency Cooler Rental .....   | 253.83                    |                         |
| 01 22 23 00-1254 WK 10 x 7 x 7 Emergency Cooler Rental .....  | 1,015.32                  |                         |
| 01 22 23 00-1255 MO 10 x 7 x 7 Emergency Cooler Rental .....  | 2,538.30                  |                         |
| 01 22 23 00-1256 DAY 10 x 7 x 7 Emergency Freezer Rental .....  | 296.14                    |                         |
| 01 22 23 00-1257 WK 10 x 7 x 7 Emergency Freezer Rental .....   | 1,184.54                  |                         |
| 01 22 23 00-1258 MO 10 x 7 x 7 Emergency Freezer Rental .....   | 3,045.96                  |                         |
| 01 22 23 00-1259 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....  | 338.44                    |                         |
| 01 22 23 00-1260 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....   | 1,353.76                  |                         |
| 01 22 23 00-1261 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....   | 3,384.40                  |                         |
| <b>01 22 23 00-1262 Portable Spot Cooling Units (01 22 23 00-1200)</b>  |                           |                         |
| Note: Includes up to 20' duct. Excludes operator, delivery, set-up, and removal.  |                           |                         |
| 01 22 23 00-1263 DAY 1 Ton Portable Spot Cooling Unit .....   | 186.84                    |                         |
| 01 22 23 00-1264 WK 1 Ton Portable Spot Cooling Unit .....  | 404.82                    |                         |
| 01 22 23 00-1265 MO 1 Ton Portable Spot Cooling Unit .....  | 956.96                    |                         |
| 01 22 23 00-1266 DAY 1.5 Ton Portable Spot Cooling Unit .....   | 244.33                    |                         |



|              |                                     |
|--------------|-------------------------------------|
| <b>01</b>    | <b>General Requirements</b>         |
| <b>01 20</b> | <b>Price and Payment Procedures</b> |
| <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-1267 WK 1.5 Ton Portable Spot Cooling Unit .....  | 501.84                    |                         |
| 01 22 23 00-1268 MO 1.5 Ton Portable Spot Cooling Unit .....  | 1,177.34                  |                         |
| 01 22 23 00-1269 DAY 2 Ton Portable Spot Cooling Unit .....   | 329.37                    |                         |
| 01 22 23 00-1270 WK 2 Ton Portable Spot Cooling Unit .....  | 688.68                    |                         |
| 01 22 23 00-1271 MO 2 Ton Portable Spot Cooling Unit .....  | 1,275.55                  |                         |
| 01 22 23 00-1272 DAY 3 Ton Portable Spot Cooling Unit .....   | 344.94                    |                         |
| 01 22 23 00-1273 WK 3 Ton Portable Spot Cooling Unit .....  | 730.60                    |                         |
| 01 22 23 00-1274 MO 3 Ton Portable Spot Cooling Unit .....  | 1,614.50                  |                         |
| 01 22 23 00-1275 DAY 5 Ton Portable Spot Cooling Unit .....   | 538.96                    |                         |
| 01 22 23 00-1276 WK 5 Ton Portable Spot Cooling Unit .....  | 1,089.91                  |                         |
| 01 22 23 00-1277 MO 5 Ton Portable Spot Cooling Unit .....  | 2,264.85                  |                         |
| 01 22 23 00-1278 DAY 10 To 12 Ton Portable Spot Cooling Unit .....  | 704.25                    |                         |
| 01 22 23 00-1279 WK 10 To 12 Ton Portable Spot Cooling Unit .....   | 1,586.95                  |                         |
| 01 22 23 00-1280 MO 10 To 12 Ton Portable Spot Cooling Unit .....   | 3,830.24                  |                         |
| 01 22 23 00-1281 DAY 20 Ton Portable Spot Cooling Unit .....  | 808.45                    |                         |
| 01 22 23 00-1282 WK 20 Ton Portable Spot Cooling Unit .....   | 1,856.44                  |                         |
| 01 22 23 00-1283 MO 20 Ton Portable Spot Cooling Unit .....   | 5,174.06                  |                         |
| 01 22 23 00-1284 DAY 25 Ton Portable Spot Cooling Unit .....  | 1,149.79                  |                         |
| 01 22 23 00-1285 WK 25 Ton Portable Spot Cooling Unit .....   | 2,329.53                  |                         |
| 01 22 23 00-1286 MO 25 Ton Portable Spot Cooling Unit .....   | 5,419.59                  |                         |
| 01 22 23 00-1287 EA Setup Rental Of Up To 5 Ton Portable Spot Cooler .....  | 243.20                    |                         |
| Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.                                |                           |                         |
| 01 22 23 00-1288 EA Setup Rental Of 10 To 15 Ton Portable Spot Cooler .....   | 560.84                    |                         |
| Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.                                |                           |                         |
| 01 22 23 00-1289 EA Setup Rental Of 20 To 25 Ton Portable Spot Cooler .....   | 826.82                    |                         |
| Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.                                |                           |                         |
| <b>01 22 23 00-1290 Fuel Oil Tank</b> <small>(01 22 23 00-1200)</small>   |                           |                         |
| Note: Excludes delivery to job site and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0769 for reimbursable fuel fees. |                           |                         |
| 01 22 23 00-1291 MO 100 Gallon Portable Double Wall Fuel Oil Tank Rental .....  | 392.12                    |                         |
| 01 22 23 00-1292 MO 275 Gallon Portable Double Wall Fuel Oil Tank Rental .....  | 609.97                    |                         |
| 01 22 23 00-1293 MO 500 Gallon Portable Double Wall Fuel Oil Tank Rental .....  | 1,524.92                  |                         |
| 01 22 23 00-1294 MO 1,000 Gallon Portable Double Wall Fuel Oil Tank Rental .....  | 2,541.52                  |                         |
| 01 22 23 00-1295 MO 2,300 Gallon Portable Double Wall Fuel Oil Tank Rental .....  | 3,354.81                  |                         |
| 01 22 23 00-1296 MO 5,000 Gallon Portable Double Wall Fuel Oil Tank Rental .....  | 5,993.16                  |                         |
| <b>01 22 23 00-1297 Truck And Trailer Equipment</b> <small>(01 22 23)</small>   |                           |                         |
| <b>01 22 23 00-1298 Trucks</b> <small>(01 22 23 00-1297)</small>  |                           |                         |
| Note: Includes driver, delivery, and removal.   |                           |                         |
| <b>01 22 23 00-1299 Flat Bed Trucks</b> <small>(01 22 23 00-1298)</small>   |                           |                         |
| Note: Includes hydraulic tilt bed.  |                           |                         |
| 01 22 23 00-1300 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....  | 1,032.74                  |                         |
| For Equipment Without Operator, Deduct  | -727.16                   |                         |
| 01 22 23 00-1301 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....   | 4,436.93                  |                         |
| For Equipment Without Operator, Deduct  | -3,635.81                 |                         |
| 01 22 23 00-1302 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....   | 17,778.65                 |                         |
| For Equipment Without Operator, Deduct  | -15,755.19                |                         |
| 01 22 23 00-1303 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....   | 1,164.89                  |                         |
| For Equipment Without Operator, Deduct  | -727.16                   |                         |
| 01 22 23 00-1304 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....  | 4,775.55                  |                         |
| For Equipment Without Operator, Deduct  | -3,635.81                 |                         |
| 01 22 23 00-1305 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....  | 18,645.84                 |                         |
| For Equipment Without Operator, Deduct  | -15,755.19                |                         |
| 01 22 23 00-1306 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....   | 1,259.70                  |                         |
| For Equipment Without Operator, Deduct  | -727.16                   |                         |
| 01 22 23 00-1307 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....  | 5,137.96                  |                         |
| For Equipment Without Operator, Deduct  | -3,635.81                 |                         |
| 01 22 23 00-1308 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....  | 20,025.09                 |                         |
| For Equipment Without Operator, Deduct  | -15,755.19                |                         |
| <b>01 22 23 00-1309 Boom Trucks</b> <small>(01 22 23 00-1298)</small>   |                           |                         |
| 01 22 23 00-1310 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver .....  | 1,296.21                  |                         |
| For Equipment Without Operator, Deduct  | -727.16                   |                         |
| For High Rail Equipment, Add  | 199.17                    |                         |
| 01 22 23 00-1311 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver .....   | 5,117.47                  |                         |
| For Equipment Without Operator, Deduct  | -3,635.81                 |                         |
| For High Rail Equipment, Add  | 518.58                    |                         |
| 01 22 23 00-1312 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver .....   | 19,513.03                 |                         |
| For Equipment Without Operator, Deduct  | -15,755.19                |                         |
| For High Rail Equipment, Add  | 1,315.24                  |                         |
| <b>01 22 23 00-1313 Light Off-Road Utility Passenger Vehicles</b> <small>(01 22 23 00-1298)</small>   |                           |                         |
| 01 22 23 00-1314 DAY 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle .....  | 298.72                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 22 23 00-1315 WK 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....  | 690.79                    |                         |
| 01 22 23 00-1316 MO 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....  | 1,493.60                  |                         |
| 01 22 23 00-1317 DAY 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....   | 308.06                    |                         |
| 01 22 23 00-1318 WK 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....  | 718.80                    |                         |
| 01 22 23 00-1319 MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....  | 1,586.95                  |                         |
| <br>  |                           |                         |
| <b>01 22 23 00-1320 Light Duty Trucks (01 22 23 00-1298)</b>  |                           |                         |
| 01 22 23 00-1321 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....  | 950.07                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -720.29                   |                         |
| 01 22 23 00-1322 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....   | 4,355.40                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,601.45                 |                         |
| 01 22 23 00-1323 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....   | 17,185.99                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,606.28                |                         |
| 01 22 23 00-1324 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....  | 993.15                    |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -720.29                   |                         |
| 01 22 23 00-1325 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....   | 4,484.65                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,601.45                 |                         |
| 01 22 23 00-1326 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....   | 17,473.21                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,606.28                |                         |
| <br>  |                           |                         |
| <b>01 22 23 00-1327 Rear Dump Trucks (01 22 23 00-1298)</b>   |                           |                         |
| 01 22 23 00-1328 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver.....  | 1,117.53                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| 01 22 23 00-1329 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver.....   | 4,666.91                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| 01 22 23 00-1330 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver.....   | 18,912.13                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| 01 22 23 00-1331 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver.....  | 1,246.95                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| 01 22 23 00-1332 WK 4 CY Rear Dump Truck With Full-Time Truck Driver.....   | 5,067.89                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| 01 22 23 00-1333 MO 4 CY Rear Dump Truck With Full-Time Truck Driver.....   | 19,467.99                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| 01 22 23 00-1334 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver.....  | 1,321.21                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| 01 22 23 00-1335 WK 6 CY Rear Dump Truck With Full-Time Truck Driver.....   | 5,227.01                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| 01 22 23 00-1336 MO 6 CY Rear Dump Truck With Full-Time Truck Driver.....   | 19,574.07                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| 01 22 23 00-1337 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver.....   | 2,201.67                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| 01 22 23 00-1338 WK 13 CY Rear Dump Truck With Full-Time Truck Driver.....  | 7,040.98                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| 01 22 23 00-1339 MO 13 CY Rear Dump Truck With Full-Time Truck Driver.....  | 24,665.91                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| 01 22 23 00-1340 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver.....   | 2,349.12                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| 01 22 23 00-1341 WK 18 CY Rear Dump Truck With Full-Time Truck Driver.....  | 7,381.49                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| 01 22 23 00-1342 MO 18 CY Rear Dump Truck With Full-Time Truck Driver.....  | 25,556.98                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| <br>  |                           |                         |
| <b>01 22 23 00-1343 Vacuum Trucks (01 22 23 00-1298)</b>  |                           |                         |
| 01 22 23 00-1344 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver.....   | 2,191.06                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| 01 22 23 00-1345 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver.....  | 8,044.49                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| 01 22 23 00-1346 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver.....  | 28,764.84                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| <br>  |                           |                         |
| <b>01 22 23 00-1347 Water Trucks (01 22 23 00-1298)</b>   |                           |                         |
| Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1090 for additional discharge hose, 01 22 23 00-1374 for water trailer. |                           |                         |
| 01 22 23 00-1348 DAY 2,000 Gallon Water Truck With Full-Time Driver.....  | 1,410.66                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| <i>For Each 1,000 Gallon Of Purchased Water, Add</i>  | 14.40                     |                         |
| 01 22 23 00-1349 WK 2,000 Gallon Water Truck With Full-Time Driver.....   | 5,435.71                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| <i>For Each 1,000 Gallon Of Purchased Water, Add</i>  | 14.40                     |                         |
| 01 22 23 00-1350 MO 2,000 Gallon Water Truck With Full-Time Driver.....   | 20,008.11                 |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -15,755.19                |                         |
| <i>For Each 1,000 Gallon Of Purchased Water, Add</i>  | 14.40                     |                         |
| 01 22 23 00-1351 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver.....   | 1,744.82                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -727.16                   |                         |
| <i>For Each 1,000 Gallon Of Purchased Water, Add</i>  | 14.40                     |                         |
| 01 22 23 00-1352 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver.....  | 6,438.18                  |                         |
| <i>For Equipment Without Operator, Deduct</i>   | -3,635.81                 |                         |
| <i>For Each 1,000 Gallon Of Purchased Water, Add</i>  | 14.40                     |                         |

|           |              |                                     |
|-----------|--------------|-------------------------------------|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>         |
|           | <b>01 20</b> | <b>Price and Payment Procedures</b> |
|           | <b>01 22</b> | <b>Unit Prices</b>                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST        | DEMOLITION<br>UNIT COST |
|--|----------------------------------|-------------------------|
| 01 22 23 00-1353 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....<br><i>For Equipment Without Operator, Deduct</i><br><i>For Each 1,000 Gallon Of Purchased Water, Add</i>                         | 22,590.24<br>-15,755.19<br>14.40 |                         |
| <b>01 22 23 00-1354 Asphalt Distribution Trucks (01 22 23 00-1298)</b>   |                                  |                         |
| 01 22 23 00-1355 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>   | 2,142.75<br>-727.16              |                         |
| 01 22 23 00-1356 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>  | 7,864.42<br>-3,635.81            |                         |
| 01 22 23 00-1357 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>  | 28,256.01<br>-15,755.19          |                         |
| <b>01 22 23 00-1358 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions<br/>And Arrow Board (01 22 23 00-1298)</b>  |                                  |                         |
| 01 22 23 00-1359 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck<br>Driver .....<br><i>For Equipment Without Operator, Deduct</i>                      | 1,465.70<br>-720.29              |                         |
| 01 22 23 00-1360 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck<br>Driver .....<br><i>For Equipment Without Operator, Deduct</i>                       | 5,801.37<br>-3,601.45            |                         |
| 01 22 23 00-1361 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck<br>Driver .....<br><i>For Equipment Without Operator, Deduct</i>                       | 20,948.71<br>-15,606.28          |                         |
| <b>01 22 23 00-1362 Combination Jet/Vacuum Trucks (01 22 23 00-1298)</b>   |                                  |                         |
| 01 22 23 00-1363 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>  | 3,179.46<br>-727.16              |                         |
| 01 22 23 00-1364 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>   | 15,115.54<br>-3,635.81           |                         |
| 01 22 23 00-1365 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>   | 3,607.38<br>-727.16              |                         |
| 01 22 23 00-1366 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>  | 17,604.88<br>-3,635.81           |                         |
| 01 22 23 00-1367 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>   | 4,018.84<br>-727.16              |                         |
| 01 22 23 00-1368 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....<br><i>For Equipment Without Operator, Deduct</i>  | 20,094.21<br>-3,635.81           |                         |
| <b>01 22 23 00-1369 Straight/Box Trucks (01 22 23 00-1298)</b>   |                                  |                         |
| 01 22 23 00-1370 DAY 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver .....<br>Note: Includes 2,500 LB lift gate.<br><i>For Equipment Without Operator, Deduct</i>                           | 857.65<br>-727.16                |                         |
| 01 22 23 00-1371 WK 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver .....<br>Note: Includes 2,500 LB lift gate.<br><i>For Equipment Without Operator, Deduct</i>                            | 4,288.27<br>-3,635.81            |                         |
| 01 22 23 00-1372 MO 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver .....<br>Note: Includes 2,500 LB lift gate.<br><i>For Equipment Without Operator, Deduct</i>                            | 17,681.19<br>-15,755.19          |                         |
| <b>01 22 23 00-1373 Trailers (01 22 23 00-1297)</b>  |                                  |                         |
| Note: Includes delivery to job site and pick-up when complete.   |                                  |                         |
| <b>01 22 23 00-1374 Water Trailers With Pump (01 22 23 00-1373)</b>  |                                  |                         |
| 01 22 23 00-1375 DAY 500 To 600 Gallon Water Trailer With Pump .....<br>01 22 23 00-1376 WK 500 To 600 Gallon Water Trailer With Pump .....<br>01 22 23 00-1377 MO 500 To 600 Gallon Water Trailer With Pump ..... | 174.67<br>448.08<br>1,199.93     |                         |
| <b>01 22 23 00-1378 Trailer Mounted Equipment (01 22 23 00-1297)</b>   |                                  |                         |
| <b>01 22 23 00-1379 Trailer Mounted Under-Bridge Aerial Access Platform (01 22 23 00-1378)</b>   |                                  |                         |
| Note: Includes full-time operator. Excludes truck.   |                                  |                         |
| 01 22 23 00-1380 DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 2,859.27<br>-727.16              |                         |
| 01 22 23 00-1381 WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 10,032.14<br>-3,635.81           |                         |
| 01 22 23 00-1382 MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 33,522.78<br>-15,755.19          |                         |
| 01 22 23 00-1383 DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>   | 3,072.48<br>-727.16              |                         |
| 01 22 23 00-1384 WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 10,671.78<br>-3,635.81           |                         |
| 01 22 23 00-1385 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator .....<br><i>For Equipment Without Operator, Deduct</i>  | 35,299.54<br>-15,755.19          |                         |
| <b>01 22 23 00-1386 Trailer Mounted Bridge Stripping Buggy (01 22 23 00-1378)</b>  |                                  |                         |
| 01 22 23 00-1387 DAY Trailer Mounted Bridge Overhang Stripping Buggy .....   | 241.94                           |                         |



|                              |  |  |           |
|------------------------------|--|--|-----------|
| <b>General Requirements</b>  |  |  | <b>01</b> |
| Price and Payment Procedures |  |  | 01 20     |
| Unit Prices                  |  |  | 01 22     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 22 23 00-1388 WK Trailer Mounted Bridge Overhang Stripping Buggy .....  | 725.84                    |                         |
| 01 22 23 00-1389 MO Trailer Mounted Bridge Overhang Stripping Buggy .....  | 2,016.15                  |                         |
| <b>01 22 23 00-1390</b> Portable Trailer Mounted, CCTV Camera Systems <i>(01 22 23 00-1378)</i><br>Note: Includes trailer. Excludes truck. |                           |                         |
| 01 22 23 00-1391 MO Portable Trailer Mounted, Single Camera, CCTV Camera System .....  | 2,800.50                  |                         |
| 01 22 23 00-1392 MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System .....  | 4,854.20                  |                         |

**01 30 Administrative Requirements** *(01)*

**01 31 Project Management and Coordination** *(01 30)*

**01 31 33 Project Minimum Labor Costs** *(01 31)*

**01 31 33 00-0001** Minimum Charge *(01 31 33)*

Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.

|  |          |
|--|----------|
| 01 31 33 00-0002 EA Carpenter Minimum Charge .....   | 1,131.13 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0003 EA Carpet, Linoleum Minimum Charge .....  | 1,074.75 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0004 EA Cement Mason Minimum Charge .....  | 772.71   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0005 EA Drywall Finisher Minimum Charge .....  | 1,043.50 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0006 EA Drywall Installer Minimum Charge .....   | 1,095.37 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0007 EA Electrician Minimum Charge .....   | 1,374.43 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0008 EA Glazier Minimum Charge .....   | 976.24   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0009 EA Insulator Minimum Charge .....   | 1,179.50 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0010 EA Laborer Minimum Charge .....   | 695.06   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0011 EA Landscape Maintenance Worker Minimum Charge .....  | 820.06   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0012 EA Ornamental Metal Worker Minimum Charge .....   | 1,042.82 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0013 EA Painter, Ordinary Minimum Charge .....   | 830.13   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0014 EA Plasterer Minimum Charge .....   | 976.38   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0015 EA Plumber Minimum Charge .....   | 1,413.90 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0016 EA Roofer, Tile/Slate Minimum Charge .....  | 1,052.09 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0017 EA Roofer, Composite Built-Up Minimum Charge .....  | 1,080.99 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0018 EA Sheet Metal Worker Minimum Charge .....  | 1,318.35 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0019 EA Sprinkler Installer Minimum Charge .....   | 1,336.45 |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |
| 01 31 33 00-0020 EA Tile Layer (Floor) Minimum Charge .....  | 907.21   |
| Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner. |          |

**01 35 Special Procedures** *(01 30)*

**01 35 29 Health, Safety, and Emergency Response Procedures** *(01 35)*

See CSI section 02 90 00 00-0000 for disaster recovery task.

|           |              |                                    |
|-----------|--------------|------------------------------------|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>        |
|           | <b>01 30</b> | <b>Administrative Requirements</b> |
|           | <b>01 35</b> | <b>Special Procedures</b>          |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|------------------------------|--|-------------------------|
| <b>01 35 29 00-0001</b>      | <b>Emergency Response</b> <small>(01 35 29)</small>  |                         |
|                              | See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0050 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.                            |                         |
| 01 35 29 00-0002 MI          | Trucking Delivery Of 20' Shipping Container .....  | 2.60                    |
| 01 35 29 00-0003 MI          | Trucking Delivery Of 40' Shipping Container .....  | 5.21                    |
| <b>01 35 33</b>              | <b>Infection Control Procedures</b> <small>(01 35)</small>   |                         |
|                              | See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.  |                         |
| <b>01 40</b>                 | <b>Quality Requirements</b> <small>(01)</small>  |                         |
| <b>01 41</b>                 | <b>Regulatory Requirements</b> <small>(01 40)</small>  |                         |
| <b>01 41 26</b>              | <b>Permit Requirements</b> <small>(01 41)</small>  |                         |
|                              | See CSI section 01 22 16 00-0001 for reimbursable fees.  |                         |
| <b>01 42</b>                 | <b>References</b> <small>(01 40)</small>   |                         |
| <b>01 42 13</b>              | <b>Abbreviations and Acronyms</b> <small>(01 42)</small>   |                         |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| 01 42 13 00-0001 NTE         | Abbreviations And Acronyms .....   | 0.00                    |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| <b>01 42 16</b>              | <b>Definitions</b> <small>(01 42)</small>  |                         |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| 01 42 16 00-0001 NTE         | Definitions .....  | 0.00                    |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| <b>01 42 19</b>              | <b>Reference Standards</b> <small>(01 42)</small>  |                         |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| 01 42 19 00-0001 NTE         | Reference Standards .....  | 0.00                    |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| <b>01 42 21</b>              | <b>Construction Suppliers or Venor List</b> <small>(01 42)</small>   |                         |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| 01 42 21 00-0001 NTE         | Construction Suppliers or Venor List .....   | 0.00                    |
|                              | Note: For specification publishing. Review specifications for requirements.  |                         |
| <b>01 45</b>                 | <b>Quality Control</b> <small>(01 40)</small>  |                         |
|                              | Note: Refer to section specifications for testing included with other sections.  |                         |
| <b>01 45 23</b>              | <b>Testing and Inspecting Services</b> <small>(01 45)</small>  |                         |
|                              | Note: For application to existing materials/site conditions or additional testing over specifications stated tests. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports. |                         |
| 01 45 23 00-0001             | <b>Soils/Aggregate Testing</b> <small>(01 45 23)</small>   |                         |
| 01 45 23 00-0002             | <b>Field Soils Tests</b> <small>(01 45 23 00-0001)</small>   |                         |
| 01 45 23 00-0003 EA          | Plasticity Index Soils Test, ASTM D-4318, Field Soils Test .....   | 341.17                  |
| 01 45 23 00-0004 EA          | 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test .....   | 484.24                  |
| 01 45 23 00-0005 EA          | 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test .....   | 550.28                  |
| 01 45 23 00-0006 EA          | Resistance (R) Value Soils Test, CA 301, Field Soils Test .....  | 440.22                  |
| 01 45 23 00-0007 EA          | Soils Classification Test, ASTM D-2487, Field Soils Test .....   | 660.33                  |
| 01 45 23 00-0008 SET         | Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....  | 1,320.19                |
| 01 45 23 00-0009 EA          | Moisture Content, Field Soils Test.....  | 49.51                   |
| 01 45 23 00-0010 EA          | UBC Or Swell Test, Field Soils Test .....  | 132.07                  |
| 01 45 23 00-0011 EA          | Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....   | 330.05                  |
| 01 45 23 00-0012 EA          | Proctor Compaction 6" Standard Mold, Field Soils Test .....  | 412.56                  |
| 01 45 23 00-0013 EA          | Density And Classification Test, Field Soils Test .....  | 100.53                  |
| 01 45 23 00-0014 EA          | Percolation Test, Field Soils Test .....   | 251.32                  |
| 01 45 23 00-0015 EA          | Infiltration Test, Field Soils Test.....   | 502.64                  |
| 01 45 23 00-0016             | <b>Aggregate Testing</b> <small>(01 45 23 00-0001)</small>   |                         |
| 01 45 23 00-0017 EA          | Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....   | 110.06                  |
| 01 45 23 00-0018 EA          | Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....   | 198.10                  |
| 01 45 23 00-0019 EA          | Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....   | 275.14                  |
| 01 45 23 00-0020 EA          | Sieve Analysis, Pit Run, ASTM C136 .....   | 163.36                  |
|                              | Note: Includes wash.   |                         |
| 01 45 23 00-0021 EA          | Specific Special Gravity, Course, ASTM C127 .....  | 174.86                  |
|                              | Note: Includes absorption test.  |                         |
| 01 45 23 00-0022 EA          | Special Gravity, Fine, ASTM C127 .....   | 156.77                  |
|                              | Note: Includes absorption test.  |                         |
| 01 45 23 00-0023 EA          | Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128 .....  | 233.15                  |
| 01 45 23 00-0024 EA          | Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....   | 220.11                  |
| 01 45 23 00-0025 EA          | Aggregate Cleanness Value, ASTM C-128, CA 227 .....  | 220.11                  |



|  |  |                             |           |
|--|--|-----------------------------|-----------|
|  |  | <b>General Requirements</b> | <b>01</b> |
|  |  | Quality Requirements        | 01 40     |
|  |  | Quality Control             | 01 45     |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 01 45 23 00-0026        | EA  |     | Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217 .....                    | 165.08                 |                      |
| 01 45 23 00-0027        | EA  |     | Fine Aggregate Durability Index, CA 229.....                                     | 176.09                 |                      |
| 01 45 23 00-0028        | EA  |     | Sodium And Magnesium Soundness, ASTM C88 .....                                   | 462.07                 |                      |
| 01 45 23 00-0029        | EA  |     | Los Angeles Rattler, ASTM C-131, CA 211.....                                     | 352.18                 |                      |
| 01 45 23 00-0030        | EA  |     | Los Angeles Rattler, ASTM C-535.....   | 352.18                 |                      |
| 01 45 23 00-0031        | EA  |     | Unit Weight Of Aggregates, ASTM C29.....   | 99.05                  |                      |
| 01 45 23 00-0032        | EA  |     | Organic Impurities In Sand, ASTM C40.....  | 99.01                  |                      |
| 01 45 23 00-0033        | EA  |     | Crushed Particle, ASTM California Test Method .....                              | 99.01                  |                      |
| 01 45 23 00-0034        | EA  |     | Clay Lump And Friable Particles, ASTM C142 .....                                 | 198.03                 |                      |
| <b>01 45 23 00-0035</b> |     |     | <b>Permeability Tests (01 45 23 00-0001)</b>                                     |                        |                      |
| <b>01 45 23 00-0036</b> |     |     | <b>In-Place Tests (01 45 23 00-0035)</b>   |                        |                      |
| 01 45 23 00-0037        | EA  |     | Double Ring Infiltrometer Test, ASTM D3385.....                                  | 1,748.62               |                      |
| 01 45 23 00-0038        | EA  |     | Unconfined Compressive Strength (Pocket Penetrometer) Test .....                 | 82.51                  |                      |
| <b>01 45 23 00-0039</b> |     |     | <b>Lab Tests (01 45 23 00-0035)</b>  |                        |                      |
| 01 45 23 00-0040        | EA  |     | Falling Head Rigid Wall Consolidometer Technique CAE .....                       | 816.02                 |                      |
| 01 45 23 00-0041        | EA  |     | Falling Head Permeability Test EPA-9100.....                                     | 816.02                 |                      |
| 01 45 23 00-0042        | EA  |     | Constant Head Permeability Test For Granular Soils, ASTM D2432.....              | 466.30                 |                      |
| <b>01 45 23 00-0043</b> |     |     | <b>Concrete/Cement/Asphalt Testing (01 45 23)</b>                                |                        |                      |
| <b>01 45 23 00-0044</b> |     |     | <b>Concrete Testing (01 45 23 00-0043)</b>                                       |                        |                      |
| 01 45 23 00-0045        | EA  |     | Prepare 6 x 12 Concrete Cylinder And Deliver To Lab .....                        | 24.39                  |                      |
| 01 45 23 00-0046        | EA  |     | 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633 .....         | 69.94                  |                      |
| 01 45 23 00-0047        | EA  |     | Concrete Cores Compression Test, ASTM C-42 .....                                 | 143.07                 |                      |
| 01 45 23 00-0048        | EA  |     | 6 x 6 x 18 Concrete Flexural Test, ASTM C-78 .....                               | 209.10                 |                      |
| 01 45 23 00-0049        | EA  |     | Unit Weight Of Concrete Cylinder, ASTM C-567 .....                               | 77.04                  |                      |
| 01 45 23 00-0050        | EA  |     | Concrete Mix Design Review.....  | 418.21                 |                      |
| 01 45 23 00-0051        | EA  |     | Trial Concrete Batch Prepared In Laboratory .....                                | 990.50                 |                      |
| 01 45 23 00-0052        | EA  |     | Concrete Shrinkage, ASTM C-157 Modified .....                                    | 770.38                 |                      |
| 01 45 23 00-0053        | EA  |     | 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496 .....                | 118.86                 |                      |
| 01 45 23 00-0054        | EA  |     | Concrete Slump Test, ASTM C143.....  | 55.03                  |                      |
| 01 45 23 00-0055        | EA  |     | Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231 .....              | 55.03                  |                      |
| <b>01 45 23 00-0056</b> |     |     | <b>Cement Testing (01 45 23 00-0043)</b>   |                        |                      |
| 01 45 23 00-0057        | EA  |     | Cement Grab Sample (CCR Title 24) .....  | 55.03                  |                      |
|                         |     |     | Note: Includes sealing and storing 1 year.                                       |                        |                      |
| 01 45 23 00-0058        | EA  |     | 2" x 2" x 2" Cube Compression Test, All Type Materials .....                     | 88.04                  |                      |
| <b>01 45 23 00-0059</b> |     |     | <b>Asphaltic Concrete Testing (01 45 23 00-0043)</b>                             |                        |                      |
| 01 45 23 00-0060        | EA  |     | Hveem Asphaltic Concrete Stability Test, CA 366.....                             | 110.06                 |                      |
| 01 45 23 00-0061        | EA  |     | Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927 ..... | 286.14                 |                      |
| 01 45 23 00-0062        | EA  |     | Stability Tests, Premixed, ASTM D1559 .....                                      | 110.06                 |                      |
| 01 45 23 00-0063        | EA  |     | Stability Tests, Lab. Mixed, ASTM D1559 .....                                    | 286.14                 |                      |
| 01 45 23 00-0064        | EA  |     | Swell Test, CA 305 .....   | 132.07                 |                      |
|                         |     |     | Note: Includes compaction.   |                        |                      |
| 01 45 23 00-0065        | EA  |     | % Asphalt Extraction Test, ASTM D-2172 B.....                                    | 330.16                 |                      |
| 01 45 23 00-0066        | EA  |     | Maximum Theoretical Unit Weight, ASTM C2041.....                                 | 209.84                 |                      |
| 01 45 23 00-0067        | EA  |     | Unit Weight Sample Requiring Compaction, California Test Method 308.....         | 44.02                  |                      |
| 01 45 23 00-0068        | EA  |     | Asphalt Unit Weight On Core Test, CA 308C .....                                  | 44.02                  |                      |
| 01 45 23 00-0069        | HR  |     | Nuclear Field Density Testing, 4 Hour Minimum.....                               | 226.71                 |                      |
| 01 45 23 00-0070        | EA  |     | Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664 .....                | 113.09                 |                      |
| 01 45 23 00-0071        | EA  |     | Penetration, ASTM D5.....  | 158.98                 |                      |
| <b>01 45 23 00-0072</b> |     |     | <b>Masonry/Concrete Block/Tile Testing (01 45 23)</b>                            |                        |                      |
| <b>01 45 23 00-0073</b> |     |     | <b>Masonry Testing (01 45 23 00-0072)</b>  |                        |                      |
| 01 45 23 00-0074        | EA  |     | 2" x 4" Cylinder Mortar Compression Test.....                                    | 72.64                  |                      |
| 01 45 23 00-0075        | EA  |     | 4" x 4" x 8" Grout Prisms Compression Test .....                                 | 72.64                  |                      |
| 01 45 23 00-0076        | EA  |     | Masonry Cores Compression Test .....   | 143.07                 |                      |
| 01 45 23 00-0077        | EA  |     | Composite Grouted Prism Compression Test.....                                    | 275.14                 |                      |
| <b>01 45 23 00-0078</b> |     |     | <b>Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)</b> |                        |                      |
| 01 45 23 00-0079        | EA  |     | Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....             | 176.09                 |                      |
| 01 45 23 00-0080        | EA  |     | Absorption Test, Moisture Content And Unit Weight.....                           | 121.06                 |                      |
| 01 45 23 00-0081        | EA  |     | First Unit, Moisture Condition By Relative Humidity, ASTM C427 .....             | 462.07                 |                      |
| 01 45 23 00-0082        | EA  |     | Moisture Condition By Relative Humidity, ASTM C427, Additional Unit .....        | 231.03                 |                      |
| <b>01 45 23 00-0083</b> |     |     | <b>Metals Testing (01 45 23)</b>   |                        |                      |
| <b>01 45 23 00-0084</b> |     |     | <b>Tank Line Tightness Testing (01 45 23 00-0083)</b>                            |                        |                      |

|           |              |                             |
|-----------|--------------|-----------------------------|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b> |
|           | <b>01 40</b> | <b>Quality Requirements</b> |
|           | <b>01 45</b> | <b>Quality Control</b>      |



| MINOR                   | CSI              | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|------------------|-----|---|------------------------|----------------------|
|                         | 01 45 23 00-0085 | EA  | Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing .....  | 581.98                 |                      |
|                         | 01 45 23 00-0086 | EA  | >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....  | 646.24                 |                      |
|                         | 01 45 23 00-0087 | EA  | >29,999 Gallons, Tank Line Volumetric Tightness Testing.....  | 710.26                 |                      |
| <b>01 45 23 00-0088</b> |                  |     | <b>Other Testing</b> <small>(01 45 23)</small>  |                        |                      |
| <b>01 45 23 00-0089</b> |                  |     | <b>Special Testing</b> <small>(01 45 23 00-0088)</small>  |                        |                      |
|                         | 01 45 23 00-0090 | EA  | Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....  | 165.02                 |                      |
|                         | 01 45 23 00-0091 | EA  | Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617 .....   | 990.15                 |                      |
|                         | 01 45 23 00-0092 | EA  | Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....   | 51.43                  |                      |
|                         | 01 45 23 00-0093 | EA  | Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....   | 213.35                 |                      |
|                         | 01 45 23 00-0094 | EA  | Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....  | 213.35                 |                      |
|                         | 01 45 23 00-0095 | EA  | Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....  | 213.35                 |                      |
|                         | 01 45 23 00-0096 | EA  | Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....   | 1,173.42               |                      |
|                         | 01 45 23 00-0097 | EA  | Testing And Certification Of Backflow Valves.....   | 687.04                 |                      |
| <b>01 45 23 00-0098</b> |                  |     | <b>Non-destructive Field Testing Services</b> <small>(01 45 23 00-0088)</small>   |                        |                      |
| <b>01 45 23 00-0099</b> |                  |     | <b>Infrared Thermography</b> <small>(01 45 23 00-0098)</small>  |                        |                      |
|                         |                  |     | Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task. |                        |                      |
| <b>01 45 23 00-0100</b> |                  |     | <b>Roof Investigation And Moisture Survey Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>   |                        |                      |
|                         |                  |     | Note: For on the roof surveys.  |                        |                      |
|                         | 01 45 23 00-0101 | EA  | Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....  | 3,840.30               |                      |
|                         | 01 45 23 00-0102 | CSF | Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography .....   | 6.40                   |                      |
|                         |                  |     | <i>For CADD Drawings, Add</i>   | 1.28                   |                      |
|                         | 01 45 23 00-0103 | CSF | >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....   | 4.27                   |                      |
|                         |                  |     | <i>For CADD Drawings, Add</i>   | 0.85                   |                      |
|                         | 01 45 23 00-0104 | CSF | >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....  | 3.20                   |                      |
|                         |                  |     | <i>For CADD Drawings, Add</i>   | 0.64                   |                      |
|                         |                  |     | <i>For Elevated Infrared Thermography Roof Investigation, Add</i>   | 0.80                   |                      |
|                         |                  |     | <i>For Aerial Infrared Thermography Roof Investigation, Add</i>   | 0.80                   |                      |
|                         | 01 45 23 00-0105 | CSF | >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....  | 2.13                   |                      |
|                         |                  |     | <i>For CADD Drawings, Add</i>   | 0.43                   |                      |
|                         |                  |     | <i>For Elevated Infrared Thermography Roof Investigation, Add</i>   | 0.53                   |                      |
|                         |                  |     | <i>For Aerial Infrared Thermography Roof Investigation, Add</i>   | 0.53                   |                      |
| <b>01 45 23 00-0106</b> |                  |     | <b>Building Moisture Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>  |                        |                      |
|                         |                  |     | Note: For finding moisture in walls and windows.  |                        |                      |
|                         | 01 45 23 00-0107 | EA  | Building Moisture Investigation Using Infrared Thermography, Mobilization Charge .....  | 2,026.82               |                      |
|                         | 01 45 23 00-0108 | CSF | Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography .....   | 6.40                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 3.20                   |                      |
|                         | 01 45 23 00-0109 | CSF | >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography .....   | 4.27                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 2.14                   |                      |
|                         | 01 45 23 00-0110 | CSF | >5,000 SF, Building Moisture Investigation Using Infrared Thermography .....  | 2.13                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 1.07                   |                      |
| <b>01 45 23 00-0111</b> |                  |     | <b>General Building Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>   |                        |                      |
|                         |                  |     | Note: For finding missing or misplaced insulation, air leakage and delamination.  |                        |                      |
|                         | 01 45 23 00-0112 | EA  | General Building Investigation Using Infrared Thermography, Mobilization Charge.....  | 4,160.32               |                      |
|                         | 01 45 23 00-0113 | CSF | Up To 1,000 SF, General Building Investigation Using Infrared Thermography .....  | 6.40                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 3.20                   |                      |
|                         | 01 45 23 00-0114 | CSF | >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography.....   | 4.27                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 2.14                   |                      |
|                         | 01 45 23 00-0115 | CSF | >5,000 SF, General Building Investigation Using Infrared Thermography.....  | 2.13                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 1.07                   |                      |
| <b>01 45 23 00-0116</b> |                  |     | <b>Electrical /Mechanical Equipment Scanning Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>  |                        |                      |
|                         |                  |     | Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.  |                        |                      |
|                         | 01 45 23 00-0117 | EA  | Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge.....   | 2,026.82               |                      |
|                         | 01 45 23 00-0118 | HR  | Electrical /Mechanical Equipment Scanning Using Infrared Thermography.....  | 273.80                 |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 41.00                  |                      |
| <b>01 45 23 00-0119</b> |                  |     | <b>Concrete Block Wall Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>  |                        |                      |
|                         |                  |     | Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.  |                        |                      |
|                         | 01 45 23 00-0120 | EA  | Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge .....  | 2,026.82               |                      |
|                         | 01 45 23 00-0121 | CSF | Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....   | 6.40                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 0.96                   |                      |
|                         | 01 45 23 00-0122 | CSF | >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....   | 4.27                   |                      |
|                         |                  |     | <i>For Digital Or Analog Recording Of All Items, Add</i>  | 0.64                   |                      |



|                             |  |           |
|-----------------------------|--|-----------|
| <b>General Requirements</b> |  | <b>01</b> |
| Quality Requirements        |  | 01 40     |
| Quality Control             |  | 01 45     |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |  |        |
|-------------------------|--|--------|
| <b>01 45 23 00-0123</b> | <b>Other Non-destructive Field Testing Services</b> (01 45 23 00-0098) |        |
| 01 45 23 00-0124        | HR ASNT Certified Level I NDT Consultant.....                          | 98.10  |
| 01 45 23 00-0125        | HR ASNT Certified Level II NDT Consultant.....                         | 122.40 |
| 01 45 23 00-0126        | HR ASNT Certified Level III NDT Consultant.....                        | 140.55 |
| 01 45 23 00-0127        | HR Certified Industrial Radiography Radiation Safety Personnel.....    | 146.90 |

|                         |   |        |
|-------------------------|---|--------|
| <b>01 45 23 00-0128</b> | <b>Testing Professional Services</b> (01 45 23 00-0088)                 |        |
| 01 45 23 00-0129        | HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection..... | 204.70 |
| 01 45 23 00-0130        | HR Laboratory Technician.....   | 198.10 |
| 01 45 23 00-0131        | HR Portable Digital Reinforcement Scanner.....                          | 286.14 |
| 01 45 23 00-0132        | HR Subsurface Detection Radar System.....                               | 484.24 |
| 01 45 23 00-0133        | HR Pavement Rehabilitation Analysis Using Deflectors.....               | 550.28 |

**01 45 29 Testing Laboratory Services** (01 45)

Note: For application to existing materials/site conditions or additional testing over specifications stated tests.

|                         |   |        |
|-------------------------|---|--------|
| <b>01 45 29 00-0001</b> | <b>Soil Borings Laboratory Tests</b> (01 45 29)   |        |
| 01 45 29 00-0002        | EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test..... | 151.55 |
| 01 45 29 00-0003        | EA Shrinkage Limit, Soil Borings Laboratory Test.....   | 48.35  |
| 01 45 29 00-0004        | EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....                                   | 116.58 |
| 01 45 29 00-0005        | EA Consolidation, Soil Borings Laboratory Test.....   | 816.02 |
| 01 45 29 00-0006        | EA Swell Test, Soil Borings Laboratory Test.....  | 127.94 |
| 01 45 29 00-0007        | EA In Place Density, Soil Borings Laboratory Test.....  | 34.97  |
| 01 45 29 00-0008        | EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....  | 21.72  |
| 01 45 29 00-0009        | EA Hydrometer Analysis, Soil Borings Laboratory Test.....   | 280.50 |
| 01 45 29 00-0010        | EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....   | 97.79  |
| 01 45 29 00-0011        | EA Partial Sieve Analysis, Soil Borings Laboratory Test.....  | 19.34  |
| 01 45 29 00-0012        | EA Laboratory Permeability, Soil Borings Laboratory Test.....   | 966.98 |
| 01 45 29 00-0013        | EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....   | 195.59 |
| 01 45 29 00-0014        | EA Sulfate Soundness, Soil Borings Laboratory Test.....   | 241.74 |
| 01 45 29 00-0015        | EA Los Angeles Abrasion, Soil Borings Laboratory Test.....  | 447.49 |
| 01 45 29 00-0016        | EA Soil Bearing Ratio, ASTM D1883.....  | 495.25 |
| 01 45 29 00-0017        | EA Compaction Test Subgrade, Soil Borings Laboratory Test.....  | 145.05 |
| 01 45 29 00-0018        | EA Compaction Test Base Course, Soil Borings Laboratory Test.....   | 161.16 |
| 01 45 29 00-0019        | EA In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....              | 345.89 |
| 01 45 29 00-0020        | EA Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....                                   | 74.13  |

**01 50 Temporary Facilities and Controls** (01)

Note: Tasks in this section shall be used as directed by owner.

**01 51 Temporary Utilities** (01 50)

**01 51 13 Temporary Electricity** (01 51)

**01 51 13 00-0001 Temporary Service Switch And/or Building Feeder Switch** (01 51 13)

Note: Includes all connections and removal after use.

|                  |  |          |
|------------------|--|----------|
| 01 51 13 00-0002 | EA Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....      | 1,749.61 |
| 01 51 13 00-0003 | EA Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....      | 2,739.40 |
| 01 51 13 00-0004 | EA Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses..... | 4,936.32 |
| 01 51 13 00-0005 | EA Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses..... | 7,852.29 |

**01 51 13 00-0006 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch**

**Fuses** (01 51 13)

Note: Includes mounting on wall and removal after use.

|                  |   |          |
|------------------|---|----------|
| 01 51 13 00-0007 | EA Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers..... | 1,712.22 |
| 01 51 13 00-0008 | EA Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers..... | 2,488.30 |
| 01 51 13 00-0009 | EA Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers..... | 3,866.90 |
| 01 51 13 00-0010 | EA Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers..... | 5,647.07 |

**01 51 13 00-0011 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards** (01 51 13)

Note: Includes all connections, fittings, supports and removal after use.

|                  |   |       |
|------------------|---|-------|
| 01 51 13 00-0012 | LF Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....   | 11.75 |
| 01 51 13 00-0013 | LF Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards..... | 12.87 |

**01 51 26 Temporary Lighting** (01 51)

**01 51 26 00-0001 Temporary Lighting Devices** (01 51 26)

Note: Includes removal after use.

|                  |  |        |
|------------------|--|--------|
| 01 51 26 00-0002 | EA Temporary Exit Light.....                 | 334.61 |
| 01 51 26 00-0003 | EA Temporary 10 Light String With Cages..... | 126.71 |
| 01 51 26 00-0004 | EA Temporary High Bay Light.....             | 485.07 |



|           |              |  |
|-----------|--------------|--|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>              |
|           | <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
|           | <b>01 52</b> | <b>Construction Facilities</b>           |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**01 52 Construction Facilities** (01 50)

Note: In this section shall be used as directed by owner for owner's use.

**01 52 13 Field Offices and Sheds** (01 52)

**01 52 13 00-0001 Field Offices and Office Trailers** (01 52 13)

Note: Excludes furniture, utility connections and service. Minimum 6 months rental. See CSI section 01 52 13 00-0015 for furniture, skirting, and steps.

|                  |    |  |          |
|------------------|----|--|----------|
| 01 52 13 00-0002 | MO | 8' x 24' Mobile Office, With Toilet.....                   | 184.67   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,242.34 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 430.60   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
|                  |    | <i>For Office Trailer Without Toilet, Deduct</i>           | -36.93   |
| 01 52 13 00-0003 | MO | 8' x 32' Mobile Office, With Toilet.....                   | 209.29   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,242.34 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 430.60   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
|                  |    | <i>For Office Trailer Without Toilet, Deduct</i>           | -41.86   |
| 01 52 13 00-0004 | MO | 10' x 36' Mobile Office, With Toilet.....                  | 283.16   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
|                  |    | <i>For Office Trailer Without Toilet, Deduct</i>           | -56.63   |
| 01 52 13 00-0005 | MO | 10' x 40' Mobile Office, With Toilet.....                  | 301.63   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
|                  |    | <i>For Office Trailer Without Toilet, Deduct</i>           | -60.33   |
| 01 52 13 00-0006 | MO | 10' x 44' Mobile Office, With Toilet.....                  | 332.40   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0007 | MO | 10' x 50' Mobile Office, With Toilet.....                  | 350.87   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0008 | MO | 12' x 32' Mobile Office, With Toilet.....                  | 271.46   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 723.04   |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 566.58   |
| 01 52 13 00-0009 | MO | 12' x 44' Mobile Office, With Toilet.....                  | 362.94   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0010 | MO | 12' x 50' Mobile Office, With Toilet.....                  | 412.43   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0011 | MO | 12' x 60' Mobile Office, With Toilet.....                  | 449.36   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 1,863.51 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 702.55   |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0012 | MO | 24' x 60' Modular Office, With Toilet.....                 | 984.89   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 3,727.01 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 1,133.15 |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0013 | MO | 24' x 72' Modular Office, With Toilet.....                 | 1,181.87 |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 3,727.01 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 1,133.15 |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |
| 01 52 13 00-0014 | MO | 30' x 30' Modular Office, With Toilet.....                 | 561.70   |
|                  |    | <i>For Each Delivery And Removal, Two Round Trips, Add</i> | 3,727.01 |
|                  |    | <i>For Each Set-Up (Block And Level), Add</i>              | 1,133.15 |
|                  |    | <i>For Each Anchoring Into Dirt, Add</i>                   | 131.31   |
|                  |    | <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>    | 196.96   |

**01 52 13 00-0015 Accessories For Field Office Trailers** (01 52 13)

Note: Costs includes installation or placement in trailer.

|                  |    |  |       |
|------------------|----|--|-------|
| 01 52 13 00-0016 | MO | Desk For Field Office Trailer.....               | 56.78 |
| 01 52 13 00-0017 | MO | Rolling Desk Chair For Field Office Trailer..... | 35.49 |
| 01 52 13 00-0018 | MO | File Cabinet For Field Office Trailer.....       | 42.59 |
| 01 52 13 00-0019 | MO | Table For Field Office Trailer.....              | 28.39 |
| 01 52 13 00-0020 | MO | Folding Chair For Field Office Trailer.....      | 13.45 |



|  |  |  |              |
|--|--|--|--------------|
|  |  | <b>General Requirements</b>              | <b>01</b>    |
|  |  | <b>Temporary Facilities and Controls</b> | <b>01 50</b> |
|  |  | <b>Construction Facilities</b>           | <b>01 52</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....  | 156.15                    |                         |
| 01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....   | 99.37                     |                         |
| 01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....  | 178.91                    |                         |
| 01 52 13 00-0024 LF Perimeter Trailer Vinyl Skirting For Field Office Trailer.....   | 15.76                     |                         |
| 01 52 13 00-0025 LF Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer.....   | 37.33                     |                         |
| 01 52 13 00-0026 MO Steps For Field Office Trailer.....  | 45.96                     |                         |
| 01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....  | 70.98                     |                         |
| 01 52 13 00-0028 MO Copier For Field Office Trailer.....   | 113.56                    |                         |
| <br>   |                           |                         |
| <b>01 52 13 00-0029 Storage Containers (01 52 13)</b>  |                           |                         |
| 01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....   | 252.35                    |                         |
| For Each Delivery And Removal, Two Round Trips, Add  | 185.78                    |                         |
| For >12 Months, Deduct   | -75.71                    |                         |
| 01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....   | 263.82                    |                         |
| For Each Delivery And Removal, Two Round Trips, Add  | 204.36                    |                         |
| For >12 Months, Deduct   | -79.15                    |                         |
| 01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....   | 312.00                    |                         |
| For Each Delivery And Removal, Two Round Trips, Add  | 411.58                    |                         |
| For >12 Months, Deduct   | -93.60                    |                         |
| <br>   |                           |                         |
| <b>01 52 19 Sanitary Facilities (01 52)</b>  |                           |                         |
| <b>01 52 19 00-0001 Portable Toilets (01 52 19)</b>  |                           |                         |
| Note: Includes set-up, servicing once per week (unless task states otherwise) and removal.   |                           |                         |
| 01 52 19 00-0002 WK Portable Chemical Toilet.....  | 67.83                     |                         |
| For Each Additional Servicing Per Unit Per Week, Add   | 25.00                     |                         |
| For Each Delivery And Set-up, Add  | 52.00                     |                         |
| 01 52 19 00-0003 MO Portable Chemical Toilet.....  | 203.49                    |                         |
| For Each Additional Servicing Per Unit Per Week, Add   | 25.00                     |                         |
| For Each Delivery And Set-up, Add  | 52.00                     |                         |
| 01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet.....  | 80.90                     |                         |
| For Each Additional Servicing Per Unit Per Week, Add   | 25.00                     |                         |
| For Each Delivery And Set-up, Add  | 52.00                     |                         |
| 01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet.....  | 237.41                    |                         |
| For Each Additional Servicing Per Unit Per Week, Add   | 25.00                     |                         |
| For Each Delivery And Set-up, Add  | 52.00                     |                         |
| 01 52 19 00-0006 WK Two Station Portable Handwash.....   | 54.40                     |                         |
| For Each Delivery And Set-up, Add  | 52.00                     |                         |
| 01 52 19 00-0007 MO Two Station Portable Handwash.....   | 165.03                    |                         |
| For Each Delivery And Set-up, Add  | 52.00                     |                         |
| 01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer.....  | 4,582.08                  |                         |
| Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing.   |                           |                         |
| For Each Delivery, Set-up And Removal, Two Round Trips, Add  | 1,242.34                  |                         |
| 01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week.....   | 2,029.66                  |                         |
| For One Additional Service Per Week, Add   | 676.56                    |                         |
| Note: For one less service per week, UOM to be negative one (-1)   |                           |                         |
| <br>   |                           |                         |
| <b>01 53 Temporary Construction (01 50)</b>  |                           |                         |
| <b>01 53 16 Temporary Decking (01 53)</b>  |                           |                         |
| <b>01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)</b>   |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| 01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers.....   | 8.11                      |                         |
| 01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail.....  | 36.41                     |                         |
| 01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....  | 15.15                     |                         |
| 01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....   | 27.42                     |                         |
| <br>   |                           |                         |
| <b>01 53 23 Temporary Ramps (01 53)</b>  |                           |                         |
| <b>01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)</b>   |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| 01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access.....   | 1.68                      | 0.55                    |
| <br>   |                           |                         |
| <b>01 54 Construction Aids (01 50)</b>   |                           |                         |
| <b>01 54 09 Personnel Protection Equipment (01 54)</b>   |                           |                         |
| <b>01 54 09 00-0001 Personnel Protection Equipment (01 54 09)</b>  |                           |                         |
| Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements. |                           |                         |
| 01 54 09 00-0002 NTE Personnel Protection Equipment.....   | 0.00                      |                         |
| Note: For specification publishing. Review specifications for requirements.  |                           |                         |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

### 01 54 23 Temporary Scaffolding and Platforms (01 54)

|                  |   |        |
|------------------|---|--------|
| 01 54 23 00-0001 | <b>Scaffolding</b> <small>(01 54 23)</small><br>Note: Additional scaffolding rental for work above the normal working height.   |        |
| 01 54 23 00-0002 | <b>Scaffolding Rental - Rental Only</b> <small>(01 54 23 00-0001)</small><br>Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.   |        |
| 01 54 23 00-0003 | CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....  | 29.48  |
|                  | For Up To 25, Add   | 11.79  |
|                  | For >25 To 50, Add  | 7.37   |
|                  | For >50 To 150, Add   | 2.95   |
| 01 54 23 00-0004 | CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....  | 33.15  |
|                  | For Up To 25, Add   | 13.26  |
|                  | For >25 To 50, Add  | 8.29   |
|                  | For >50 To 150, Add   | 3.32   |
| 01 54 23 00-0005 | CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....  | 44.22  |
|                  | For Up To 25, Add   | 17.69  |
|                  | For >25 To 50, Add  | 11.06  |
|                  | For >50 To 150, Add   | 4.42   |
| 01 54 23 00-0006 | <b>Scaffolding Erection And Dismantling - Labor Only</b> <small>(01 54 23 00-0001)</small><br>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.   |        |
| 01 54 23 00-0007 | CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....   | 48.51  |
| 01 54 23 00-0008 | CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....   | 63.61  |
| 01 54 23 00-0009 | CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....   | 84.89  |
| 01 54 23 00-0010 | CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....   | 93.38  |
| 01 54 23 00-0011 | CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....  | 107.53 |
| 01 54 23 00-0012 | CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories .....  | 67.92  |
| 01 54 23 00-0013 | <b>Heavy Duty Masonry Scaffolding Rental - Rental Only</b> <small>(01 54 23 00-0001)</small><br>Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection. |        |
| 01 54 23 00-0014 | CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....   | 67.90  |
| 01 54 23 00-0015 | CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....   | 124.49 |
| 01 54 23 00-0016 | LF Aluminum Joists (LF / Month) .....   | 11.04  |
| 01 54 23 00-0017 | LF Aluminum Stringers (LF / Month) .....  | 15.83  |
| 01 54 23 00-0018 | EA Screw Jack With U-Plate For Stringers (EA / Month).....  | 19.95  |
| 01 54 23 00-0019 | <b>Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only</b> <small>(01 54 23 00-0001)</small><br>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.  |        |
| 01 54 23 00-0020 | CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....   | 90.55  |
| 01 54 23 00-0021 | CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....  | 113.19 |
| 01 54 23 00-0022 | CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....   | 135.83 |
| 01 54 23 00-0023 | CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....  | 147.15 |
| 01 54 23 00-0024 | CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....   | 164.12 |
| 01 54 23 00-0025 | <b>Scaffolding Accessories</b> <small>(01 54 23 00-0001)</small><br>See CSI section 01 54 23 00-0019 for erection.  |        |
| 01 54 23 00-0026 | CSF Netting for Exterior Building Scaffolding.....<br>Note: Includes removal after use.   | 41.41  |
| 01 54 23 00-0027 | <b>Rolling Scaffolding</b> <small>(01 54 23)</small><br>Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.  |        |
| 01 54 23 00-0028 | DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....   | 12.58  |
| 01 54 23 00-0029 | WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....  | 50.41  |
| 01 54 23 00-0030 | MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....  | 201.63 |
| 01 54 23 00-0031 | DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....   | 21.06  |
| 01 54 23 00-0032 | WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....  | 84.35  |
| 01 54 23 00-0033 | MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....  | 337.44 |
| 01 54 23 00-0034 | EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold .....  | 105.39 |
| 01 54 23 00-0035 | EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold .....  | 131.73 |
| 01 54 23 00-0036 | <b>Shoring Posts</b> <small>(01 54 23)</small>  |        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post .....  | 2.07                      |                         |
| 01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post .....   | 8.30                      |                         |
| 01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post .....   | 24.89                     |                         |
| 01 54 23 00-0040 EA Initial Erection And Final Dismantling For Each Shoring Post .....  | 8.44                      |                         |
| For >20 To 50, Deduct   | -1.27                     |                         |
| For >50 To 100, Deduct  | -2.95                     |                         |
| For >100, Deduct  | -4.64                     |                         |
| <br><b>01 54 23 00-0041 Temporary Lumber, Single Use</b> (01 54 23)   |                           |                         |
| Note: Includes removal after use.   |                           |                         |
| 01 54 23 00-0042 SF 5/16" CD Grade Plywood, Temporary Lumber .....  | 2.64                      |                         |
| 01 54 23 00-0043 SF 1/2" CD Grade Plywood, Temporary Lumber .....   | 2.98                      |                         |
| 01 54 23 00-0044 SF 5/8" CD Grade Plywood, Temporary Lumber .....   | 3.28                      |                         |
| 01 54 23 00-0045 SF 3/4" CD Grade Plywood, Temporary Lumber .....   | 3.58                      |                         |
| 01 54 23 00-0046 SF 1" CD Grade Plywood, Temporary Lumber .....   | 5.19                      |                         |
| 01 54 23 00-0047 LF 2" x 4" Temporary Lumber .....  | 3.47                      |                         |
| 01 54 23 00-0048 LF 2" x 6" Temporary Lumber .....  | 4.40                      |                         |
| 01 54 23 00-0049 LF 2" x 8" Temporary Lumber .....  | 5.33                      |                         |
| 01 54 23 00-0050 LF 2" x 10" Temporary Lumber .....   | 6.27                      |                         |
| 01 54 23 00-0051 LF 2" x 12" Temporary Lumber .....   | 7.20                      |                         |
| 01 54 23 00-0052 LF 3" x 8" Temporary Lumber .....  | 7.20                      |                         |
| 01 54 23 00-0053 LF 3" x 10" Temporary Lumber .....   | 8.60                      |                         |
| 01 54 23 00-0054 LF 3" x 12" Temporary Lumber .....   | 10.01                     |                         |
| 01 54 23 00-0055 LF 4" x 4" Temporary Lumber .....  | 4.70                      |                         |
| 01 54 23 00-0056 LF 4" x 6" Temporary Lumber .....  | 6.75                      |                         |
| 01 54 23 00-0057 LF 6" x 6" Temporary Lumber .....  | 8.80                      |                         |
| 01 54 23 00-0058 LF 6" x 8" Temporary Lumber .....  | 11.43                     |                         |
| 01 54 23 00-0059 LF 12" x 12" Temporary Lumber .....  | 28.03                     |                         |
| <br><b>01 54 23 00-0060 Temporary Precast Concrete Blocks</b> (01 54 23)  |                           |                         |
| Note: Includes removal after use.   |                           |                         |
| 01 54 23 00-0061 EA 2' x 2' x 2' Temporary Precast Concrete (Ecology) Block .....   | 130.73                    |                         |
| Note: Includes removal after use.   |                           |                         |
| 01 54 23 00-0062 EA 2' x 2' x 4' Temporary Precast Concrete (Ecology) Block .....   | 163.41                    |                         |
| Note: Includes removal after use.   |                           |                         |
| 01 54 23 00-0063 EA 2' x 2' x 8' Temporary Precast Concrete (Ecology) Block .....   | 219.72                    |                         |
| Note: Includes removal after use.   |                           |                         |
| <br><b>01 54 26 Temporary Swing Staging</b> (01 54)   |                           |                         |
| Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors. |                           |                         |
| <b>01 54 26 00-0001 Swing Stage</b> (01 54 26)  |                           |                         |
| Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.                                    |                           |                         |
| 01 54 26 00-0002 MO 7' Swing Stage, Electric Operated .....   | 2,984.71                  |                         |
| 01 54 26 00-0003 MO 10' Swing Stage, Electric Operated .....  | 3,133.94                  |                         |
| 01 54 26 00-0004 MO 14' Swing Stage, Electric Operated .....  | 3,283.18                  |                         |
| 01 54 26 00-0005 MO 20' Swing Stage, Electric Operated .....  | 3,432.41                  |                         |
| 01 54 26 00-0006 MO 24' Swing Stage, Electric Operated .....  | 3,581.65                  |                         |
| 01 54 26 00-0007 MO 30' Swing Stage, Electric Operated .....  | 3,730.88                  |                         |
| 01 54 26 00-0008 MO 42' Swing Stage, Electric Operated .....  | 3,880.12                  |                         |
| 01 54 26 00-0009 MO 12' Swing Stage, Manually Operated .....  | 860.69                    |                         |
| 01 54 26 00-0010 MO 24' Swing Stage, Manually Operated .....  | 1,075.86                  |                         |
| 01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling .....   | 4,492.85                  |                         |
| Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.  |                           |                         |
| 01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling .....   | 6,243.60                  |                         |
| Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.  |                           |                         |
| 01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof .....   | 2,362.44                  |                         |
| 01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof .....  | 3,290.54                  |                         |
| <br><b>01 55 Vehicular Access and Parking</b> (01 55)   |                           |                         |
| <b>01 55 23 Temporary Roads</b> (01 55)   |                           |                         |
| <b>01 55 23 00-0001 Temporary Stabilized Construction Entrance</b> (01 55 23)   |                           |                         |
| Note: As per Caltrans detail.   |                           |                         |
| 01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly .....   | 4.17                      |                         |
| Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.  |                           |                         |
| 01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly .....  | 5.65                      |                         |
| Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.  |                           |                         |
| <br><b>01 55 23 00-0004 Rumble Trench Plate</b> (01 55 23)  |                           |                         |
| 01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental .....   | 398.66                    |                         |

|              |  |
|--------------|--|
| <b>01</b>    | <b>General Requirements</b>              |
| <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
| <b>01 55</b> | <b>Vehicular Access and Parking</b>      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 55 23 00-0006 EA Placement And Removal Of Rumble Plate.....  | 94.00                     |                         |
| Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks. |                           |                         |
| 01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....   | 23.50                     |                         |
| Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks. |                           |                         |
| <b>01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)</b>  |                           |                         |
| Note: Excludes asphalt and gravel.  |                           |                         |
| 01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....  | 4,871.98                  | 208.67                  |
| 01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....  | 6,630.09                  | 313.01                  |
| 01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....  | 9,162.92                  | 417.34                  |
| 01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....   | 19,055.60                 | 521.67                  |
| 01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....   | 27,979.86                 | 626.01                  |
| <b>01 55 26 Traffic Control (01 55)</b>   |                           |                         |
| <b>01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask (01 55 26)</b>  |                           |                         |
| Note: Includes installation and removal after use.  |                           |                         |
| 01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask.....   | 5.11                      |                         |
| 01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask.....   | 6.19                      |                         |
| <b>01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)</b>  |                           |                         |
| Note: Includes installation and removal after use.  |                           |                         |
| 01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....  | 5.17                      |                         |
| 01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....  | 7.07                      |                         |
| 01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....  | 8.88                      |                         |
| <b>01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)</b>  |                           |                         |
| Note: Includes installation and removal after use.  |                           |                         |
| 01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....   | 2.35                      |                         |
| <i>For Not Removed, Deduct</i>  |                           |                         |
|   | -1.59                     |                         |
| 01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....   | 3.09                      |                         |
| <i>For Not Removed, Deduct</i>  |                           |                         |
|   | -2.14                     |                         |
| 01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines.....   | 3.86                      |                         |
| <i>For Not Removed, Deduct</i>  |                           |                         |
|   | -2.71                     |                         |
| 01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....                              | 3.33                      |                         |
| 01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....                              | 3.36                      |                         |
| <b>01 55 26 00-0014 Temporary Pedestrian Traffic Control (01 55 26)</b>   |                           |                         |
| 01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....   | 9.72                      |                         |
| 01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....   | 12.64                     |                         |
| 01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....   | 7.72                      |                         |
| 01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....   | 9.43                      |                         |
| 01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent.....  | 10.21                     |                         |
| 01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent.....  | 13.90                     |                         |
| 01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape).....   | 11.44                     |                         |
| 01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape).....   | 15.91                     |                         |
| 01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape).....   | 19.83                     |                         |
| 01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape).....   | 23.19                     |                         |
| <b>01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)</b>  |                           |                         |
| Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.   |                           |                         |
| 01 55 26 00-0026 LF 4" Linear Delineation System.....   | 11.18                     |                         |
| 01 55 26 00-0027 LF 6" Linear Delineation System.....   | 15.17                     |                         |
| <b>01 55 26 00-0028 Temporary Traffic Protection (01 55 26)</b>   |                           |                         |
| <b>01 55 26 00-0029 Temporary Portable Traffic Control Device Usage (01 55 26 00-0028)</b>  |                           |                         |
| Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.                                  |                           |                         |
| 01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....   | 0.86                      |                         |
| 01 55 26 00-0031 WK 28" Cone With Reflective Collar.....  | 2.57                      |                         |
| 01 55 26 00-0032 MO 28" Cone With Reflective Collar.....  | 7.70                      |                         |
| 01 55 26 00-0033 DAY Vertical Panel.....  | 2.59                      |                         |
| 01 55 26 00-0034 WK Vertical Panel.....   | 7.76                      |                         |
| 01 55 26 00-0035 MO Vertical Panel.....   | 23.27                     |                         |
| 01 55 26 00-0036 DAY Channelizer Drum.....  | 2.81                      |                         |
| 01 55 26 00-0037 WK Channelizer Drum.....   | 8.42                      |                         |
| 01 55 26 00-0038 MO Channelizer Drum.....   | 25.26                     |                         |
| 01 55 26 00-0039 DAY Stackable Channelizer Panel.....   | 1.33                      |                         |
| 01 55 26 00-0040 WK Stackable Channelizer Panel.....  | 3.98                      |                         |
| 01 55 26 00-0041 MO Stackable Channelizer Panel.....  | 11.95                     |                         |
| 01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....  | 1.84                      |                         |
| 01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....   | 5.51                      |                         |



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |     |  |   |       |  |
|------------------|-----|--|---|-------|--|
| 01 55 26 00-0044 | MO  |  | Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....       | 16.54 |  |
| 01 55 26 00-0045 | DAY |  | Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side..... | 4.07  |  |
| 01 55 26 00-0046 | WK  |  | Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side..... | 12.22 |  |
| 01 55 26 00-0047 | MO  |  | Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side..... | 36.66 |  |
| 01 55 26 00-0048 | DAY |  | Type III Barricade, Up To 5' Wide With Three Reflective Rails.....        | 4.64  |  |
| 01 55 26 00-0049 | WK  |  | Type III Barricade, Up To 5' Wide With Three Reflective Rails.....        | 13.93 |  |
| 01 55 26 00-0050 | MO  |  | Type III Barricade, Up To 5' Wide With Three Reflective Rails.....        | 41.79 |  |
| 01 55 26 00-0051 | DAY |  | Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....      | 8.49  |  |
| 01 55 26 00-0052 | WK  |  | Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....      | 25.48 |  |
| 01 55 26 00-0053 | MO  |  | Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....      | 76.43 |  |
| 01 55 26 00-0054 | DAY |  | Up To 10' Wide A Frame Barricade.....                                     | 4.66  |  |
| 01 55 26 00-0055 | WK  |  | Up To 10' Wide A Frame Barricade.....                                     | 13.97 |  |
| 01 55 26 00-0056 | MO  |  | Up To 10' Wide A Frame Barricade.....                                     | 41.92 |  |
| 01 55 26 00-0057 | DAY |  | Type A Or C Flasher.....  | 0.95  |  |
| 01 55 26 00-0058 | WK  |  | Type A Or C Flasher.....  | 2.85  |  |
| 01 55 26 00-0059 | MO  |  | Type A Or C Flasher.....  | 8.54  |  |
| 01 55 26 00-0060 | DAY |  | Type B Flasher (High Intensity).....                                      | 5.15  |  |
| 01 55 26 00-0061 | WK  |  | Type B Flasher (High Intensity).....                                      | 15.45 |  |
| 01 55 26 00-0062 | MO  |  | Type B Flasher (High Intensity).....                                      | 46.35 |  |

**01 55 26 00-0063 Temporary Traffic Barriers Usage (01 55 26 00-0028)**

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.

|                  |     |  |   |        |  |
|------------------|-----|--|---|--------|--|
| 01 55 26 00-0064 | DAY |  | 6' Long Portable Parking Curbs.....         | 2.22   |  |
| 01 55 26 00-0065 | WK  |  | 6' Long Portable Parking Curbs.....         | 6.65   |  |
| 01 55 26 00-0066 | MO  |  | 6' Long Portable Parking Curbs.....         | 19.96  |  |
| 01 55 26 00-0067 | DAY |  | 6' Long Portable Speed Bumps.....           | 6.56   |  |
| 01 55 26 00-0068 | WK  |  | 6' Long Portable Speed Bumps.....           | 19.69  |  |
| 01 55 26 00-0069 | MO  |  | 6' Long Portable Speed Bumps.....           | 59.08  |  |
| 01 55 26 00-0070 | DAY |  | Up To 12.5' Concrete Traffic Barrier.....   | 15.77  |  |
| 01 55 26 00-0071 | WK  |  | Up To 12.5' Concrete Traffic Barrier.....   | 47.31  |  |
| 01 55 26 00-0072 | MO  |  | Up To 12.5' Concrete Traffic Barrier.....   | 141.93 |  |
| 01 55 26 00-0073 | DAY |  | >12.5' To 20' Concrete Traffic Barrier..... | 31.54  |  |
| 01 55 26 00-0074 | WK  |  | >12.5' To 20' Concrete Traffic Barrier..... | 94.62  |  |
| 01 55 26 00-0075 | MO  |  | >12.5' To 20' Concrete Traffic Barrier..... | 283.86 |  |
| 01 55 26 00-0076 | DAY |  | 6' x 32" Tall Plastic Water Barrier.....    | 18.83  |  |
| 01 55 26 00-0077 | WK  |  | 6' x 32" Tall Plastic Water Barrier.....    | 56.50  |  |
| 01 55 26 00-0078 | MO  |  | 6' x 32" Tall Plastic Water Barrier.....    | 169.49 |  |
| 01 55 26 00-0079 | DAY |  | 6' x 46" Tall Plastic Water Barrier.....    | 26.89  |  |
| 01 55 26 00-0080 | WK  |  | 6' x 46" Tall Plastic Water Barrier.....    | 80.67  |  |
| 01 55 26 00-0081 | MO  |  | 6' x 46" Tall Plastic Water Barrier.....    | 242.01 |  |
| 01 55 26 00-0082 | DAY |  | Sand Filled Crash Attenuator Barrels.....   | 10.53  |  |
| 01 55 26 00-0083 | WK  |  | Sand Filled Crash Attenuator Barrels.....   | 31.58  |  |
| 01 55 26 00-0084 | MO  |  | Sand Filled Crash Attenuator Barrels.....   | 94.73  |  |

**01 55 26 00-0085 Temporary Portable Signs And Message Displays Usage (01 55 26 00-0028)**

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.

|                  |     |  |  |           |  |
|------------------|-----|--|--|-----------|--|
| 01 55 26 00-0086 | DAY |  | Mesh Or Vinyl Roll-up Sign With Stand.....   | 8.26      |  |
| 01 55 26 00-0087 | WK  |  | Mesh Or Vinyl Roll-up Sign With Stand.....   | 24.79     |  |
| 01 55 26 00-0088 | MO  |  | Mesh Or Vinyl Roll-up Sign With Stand.....   | 74.37     |  |
| 01 55 26 00-0089 | DAY |  | Aluminum Sign And Post.....  | 4.12      |  |
| 01 55 26 00-0090 | WK  |  | Aluminum Sign And Post.....  | 12.35     |  |
| 01 55 26 00-0091 | MO  |  | Aluminum Sign And Post.....  | 37.06     |  |
| 01 55 26 00-0092 | DAY |  | Aluminum Sign And A Frame Stand.....   | 6.25      |  |
| 01 55 26 00-0093 | WK  |  | Aluminum Sign And A Frame Stand.....   | 18.74     |  |
| 01 55 26 00-0094 | MO  |  | Aluminum Sign And A Frame Stand.....   | 56.23     |  |
| 01 55 26 00-0095 | DAY |  | Trailer Mounted Flashing Arrow Board.....  | 149.00    |  |
| 01 55 26 00-0096 | WK  |  | Trailer Mounted Flashing Arrow Board.....  | 412.41    |  |
| 01 55 26 00-0097 | MO  |  | Trailer Mounted Flashing Arrow Board.....  | 1,090.89  |  |
| 01 55 26 00-0098 | DAY |  | Trailer Mounted Portable Variable Message Sign (PVMS).....   | 388.98    |  |
| 01 55 26 00-0099 | WK  |  | Trailer Mounted Portable Variable Message Sign (PVMS).....   | 1,037.28  |  |
| 01 55 26 00-0100 | MO  |  | Trailer Mounted Portable Variable Message Sign (PVMS).....   | 2,074.56  |  |
| 01 55 26 00-0101 | DAY |  | Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....  | 1,405.67  |  |
|                  |     |  | Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer. |           |  |
| 01 55 26 00-0102 | WK  |  | Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....  | 4,217.01  |  |
|                  |     |  | Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer. |           |  |
| 01 55 26 00-0103 | MO  |  | Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....  | 12,651.03 |  |
|                  |     |  | Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer. |           |  |

**01 55 26 00-0104 Place And Remove Temporary Traffic Protection Using Truck (01 55 26 00-0028)**

Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.

|                  |    |  |   |      |  |
|------------------|----|--|---|------|--|
| 01 55 26 00-0105 | EA |  | Placement And Removal Of Up To 250 Cones Using Truck.....               | 3.68 |  |
| 01 55 26 00-0106 | EA |  | Placement And Removal Of >250 Cones Using Truck.....                    | 3.22 |  |
| 01 55 26 00-0107 | EA |  | Placement And Removal Of Up To 250 Panels/Channelizers Using Truck..... | 6.08 |  |
| 01 55 26 00-0108 | EA |  | Placement And Removal Of >250 Panels/Channelizers Using Truck.....      | 5.07 |  |

**01 General Requirements****01 50 Temporary Facilities and Controls****01 55 Vehicular Access and Parking**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck.....   | 9.22                      |                         |
| 01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck.....  | 7.37                      |                         |
| 01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....  | 9.22                      |                         |
| 01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck.....  | 5.53                      |                         |
| 01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck.....   | 23.04                     |                         |
| 01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck.....   | 69.11                     |                         |
| 01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier.....   | 94.00                     |                         |
| Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.                  |                           |                         |
| For 1 Barrier, Add   | 235.00                    |                         |
| For 2 Barriers, Add  | 84.60                     |                         |
| For 3 Barriers, Add  | 28.20                     |                         |
| 01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....  | 141.00                    |                         |
| Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.                  |                           |                         |
| For 1 Barrier, Add   | 352.50                    |                         |
| For 2 Barriers, Add  | 126.90                    |                         |
| For 3 Barriers, Add  | 42.30                     |                         |
| 01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier.....  | 54.20                     |                         |
| Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.   |                           |                         |
| For 1 Barrier, Add   | 117.50                    |                         |
| For 2 Barriers, Add  | 42.30                     |                         |
| For 3 Barriers, Add  | 14.10                     |                         |
| 01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels.....   | 70.50                     |                         |
| Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.                  |                           |                         |
| For 1 Barrier, Add   | 176.25                    |                         |
| For 2 Barriers, Add  | 63.45                     |                         |
| For 3 Barriers, Add  | 21.15                     |                         |
| <b>01 55 26 00-0119 Place And Remove Temporary Traffic Protection From Roadside (Daily)</b> (01 55 26 00-0028)   |                           |                         |
| 01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....  | 2.30                      |                         |
| 01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside.....   | 1.85                      |                         |
| 01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside.....  | 3.07                      |                         |
| 01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....   | 2.44                      |                         |
| 01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....   | 4.61                      |                         |
| 01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside.....  | 3.68                      |                         |
| 01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside.....  | 2.73                      |                         |
| 01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....   | 34.56                     |                         |
| 01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier.....   | 47.00                     |                         |
| Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization. |                           |                         |
| <b>01 55 26 00-0129 Temporary Rumble Strips</b> (01 55 26)   |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| 01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....   | 13.37                     |                         |
| 01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....  | 9.58                      |                         |
| <b>01 56 Temporary Barriers and Enclosures</b> (01 50)   |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| <b>01 56 16 Temporary Dust Barriers</b> (01 56)  |                           |                         |
| <b>01 56 16 00-0001 Temporary Sheeting For Protection</b> (01 56 16)   |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| 01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors.....  | 0.36                      |                         |
| 01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....   | 0.47                      |                         |
| 01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....  | 0.62                      |                         |
| 01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....   | 0.62                      |                         |
| 01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....  | 0.45                      |                         |
| 01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....   | 0.56                      |                         |
| 01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....  | 0.71                      |                         |
| 01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....   | 0.67                      |                         |
| 01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....  | 0.87                      |                         |
| 01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors.....   | 0.47                      |                         |
| 01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls.....  | 0.58                      |                         |
| 01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings.....   | 0.73                      |                         |
| 01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding.....  | 0.69                      |                         |
| 01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....  | 0.46                      |                         |
| 01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....   | 0.57                      |                         |
| 01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....  | 0.72                      |                         |
| 01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....   | 0.68                      |                         |
| 01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....  | 0.54                      |                         |
| 01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....   | 0.65                      |                         |
| 01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....  | 0.80                      |                         |
| 01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....   | 0.76                      |                         |



|  |  |  |                                   |           |
|--|--|--|-----------------------------------|-----------|
|  |  |  | <b>General Requirements</b>       | <b>01</b> |
|  |  |  | Temporary Facilities and Controls | 01 50     |
|  |  |  | Temporary Barriers and Enclosures | 01 56     |

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |  |       |  |
|------------------|----|--|--|-------|--|
| 01 56 16 00-0023 |    |  | <b>Accessories For Temporary Sheeting</b> <small>(01 56 16)</small><br>Note: Includes removal after use.   |       |  |
| 01 56 16 00-0024 | EA |  | 7' Zipper Door For Plastic Sheeting .....  | 23.80 |  |
| 01 56 16 00-0025 | LF |  | Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....<br>Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors. | 9.55  |  |

|                  |    |  |  |       |  |
|------------------|----|--|--|-------|--|
| 01 56 16 00-0026 |    |  | <b>Temporary Critical Barriers For Protection</b> <small>(01 56 16)</small><br>Note: Includes removal after use. See CSI section 02 89 00 00-0002 for Other barriers for infectious control. |       |  |
| 01 56 16 00-0027 | EA |  | Up To 1 SF Individual Critical Barriers .....  | 12.86 |  |
| 01 56 16 00-0028 | EA |  | >1 To 4 SF Individual Critical Barriers .....  | 19.51 |  |
| 01 56 16 00-0029 | EA |  | >4 To 8 SF Individual Critical Barriers .....  | 26.23 |  |
| 01 56 16 00-0030 | EA |  | >8 To 32 SF Individual Critical Barriers .....   | 40.96 |  |

|                  |  |  |   |  |  |
|------------------|--|--|---|--|--|
| 01 56 16 00-0031 |  |  | <b>Temporary Stud Wall</b> <small>(01 56 16)</small><br>Note: Includes removal after use. |  |  |
|------------------|--|--|---|--|--|

|                  |  |  |   |  |  |
|------------------|--|--|---|--|--|
| 01 56 16 00-0032 |  |  | <b>Temporary Stud Wall With Drywall</b> <small>(01 56 16 00-0031)</small><br>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint. |  |  |
|------------------|--|--|---|--|--|

|                  |    |  |  |      |  |
|------------------|----|--|--|------|--|
| 01 56 16 00-0033 |    |  | <b>Temporary Stud Wall With Drywall</b> <small>(01 56 16 00-0032)</small>      |      |  |
| 01 56 16 00-0034 | SF |  | 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 6.89 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>                               | 0.44 |  |
| 01 56 16 00-0035 | SF |  | 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 6.89 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>                               | 0.44 |  |
| 01 56 16 00-0036 | SF |  | 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 7.00 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>                               | 0.44 |  |
| 01 56 16 00-0037 | SF |  | 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... | 9.53 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>                               | 0.55 |  |
| 01 56 16 00-0038 | SF |  | 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... | 9.53 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>                               | 0.55 |  |
| 01 56 16 00-0039 | SF |  | 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... | 9.75 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>                               | 0.55 |  |

|                  |    |  |   |       |  |
|------------------|----|--|---|-------|--|
| 01 56 16 00-0040 |    |  | <b>Temporary Stud Wall With Fire Rated Drywall</b> <small>(01 56 16 00-0032)</small>                              |       |  |
| 01 56 16 00-0041 | SF |  | 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....                    | 7.02  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0042 | SF |  | 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....                    | 7.06  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0043 | SF |  | 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....                    | 6.99  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0044 | SF |  | 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 7.84  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0045 | SF |  | 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....                  | 9.78  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |
| 01 56 16 00-0046 | SF |  | 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....                  | 9.86  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |
| 01 56 16 00-0047 | SF |  | 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....                  | 9.73  |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |
| 01 56 16 00-0048 | SF |  | 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... | 11.43 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |

|                  |    |  |  |      |  |
|------------------|----|--|--|------|--|
| 01 56 16 00-0049 |    |  | <b>Temporary Stud Wall With Oriented Strand Board (OSB)</b> <small>(01 56 16 00-0031)</small><br>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint. |      |  |
| 01 56 16 00-0050 | SF |  | 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....  | 6.72 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.44 |  |
| 01 56 16 00-0051 | SF |  | 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 6.76 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.44 |  |
| 01 56 16 00-0052 | SF |  | 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 6.89 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.44 |  |
| 01 56 16 00-0053 | SF |  | 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center .....   | 6.96 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.44 |  |
| 01 56 16 00-0054 | SF |  | 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....  | 9.18 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.55 |  |
| 01 56 16 00-0055 | SF |  | 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....   | 9.27 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.55 |  |
| 01 56 16 00-0056 | SF |  | 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....   | 9.53 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.55 |  |
| 01 56 16 00-0057 | SF |  | 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center .....   | 9.66 |  |
|                  |    |  | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.55 |  |



|           |              |  |
|-----------|--------------|--|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>              |
|           | <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
|           | <b>01 56</b> | <b>Temporary Barriers and Enclosures</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |   |       |  |
|-------------------------|---|-------|--|
| <b>01 56 16 00-0058</b> | <b>Temporary Stud Wall With BC Plywood</b> <small>(01 56 16 00-0031)</small>  |       |  |
|                         | <small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.</small> |       |  |
| 01 56 16 00-0059        | SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center  | 7.02  |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0060        | SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center  | 7.19  |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0061        | SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center  | 7.37  |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0062        | SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center  | 7.51  |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.44  |  |
| 01 56 16 00-0063        | SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center  | 9.79  |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |
| 01 56 16 00-0064        | SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center  | 10.12 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |
| 01 56 16 00-0065        | SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center  | 10.49 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |
| 01 56 16 00-0066        | SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center  | 10.77 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>  | 0.55  |  |

|                         |  |      |  |
|-------------------------|--|------|--|
| <b>01 56 16 00-0067</b> | <b>Temporary Stud Wall With Plastic Sheeting</b> <small>(01 56 16 00-0031)</small>   |      |  |
|                         | <small>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.</small> |      |  |
| 01 56 16 00-0068        | SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center  | 3.98 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.32 |  |
| 01 56 16 00-0069        | SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center  | 4.06 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.32 |  |
| 01 56 16 00-0070        | SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center   | 4.08 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.32 |  |
| 01 56 16 00-0071        | SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center  | 4.08 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.32 |  |
| 01 56 16 00-0072        | SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center  | 4.15 |  |
|                         | <i>For Metal Studs 24" On Center, Add/Deduct</i>   | 0.32 |  |

|                         |   |        |  |
|-------------------------|---|--------|--|
| <b>01 56 16 00-0073</b> | <b>Temporary Doors</b> <small>(01 56 16 00-0031)</small>  |        |  |
|                         | <small>Note: For temporary stud walls. Includes removal after use.</small>                              |        |  |
| 01 56 16 00-0074        | EA Temporary Metal Door And Frame   | 673.82 |  |
|                         | <small>Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.</small> |        |  |

|                         |  |       |  |
|-------------------------|--|-------|--|
| <b>01 56 16 00-0075</b> | <b>Temporary Floor Protection</b> <small>(01 56 16)</small>                        |       |  |
|                         | <small>Note: Includes removal after use.</small>                                   |       |  |
| 01 56 16 00-0076        | SF 1/8" Thick, Masonite For Temporary Floor Protection                             | 1.73  |  |
| 01 56 16 00-0077        | SF 1/2" Thick, Plywood For Temporary Floor Protection                              | 1.75  |  |
| 01 56 16 00-0078        | SF 3/4" Thick, Plywood For Temporary Floor Protection                              | 2.06  |  |
| 01 56 16 00-0079        | LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection          | 1.04  |  |
| 01 56 16 00-0080        | LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection | 0.33  |  |
| 01 56 16 00-0081        | CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film                          | 26.63 |  |
| 01 56 16 00-0082        | SF Burlap For Temporary Floor Protection   | 0.69  |  |

|                         |  |        |  |
|-------------------------|--|--------|--|
| <b>01 56 16 00-0083</b> | <b>Sticky Mats</b> <small>(01 56 16)</small>     |        |  |
|                         | <small>Note: Includes removal after use.</small> |        |  |
| 01 56 16 00-0084        | EA 18" x 36", 30 Layer Sticky Mat                | 37.11  |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 24.67  |  |
| 01 56 16 00-0085        | EA 18" x 46", 30 Layer Sticky Mat                | 42.59  |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 28.78  |  |
| 01 56 16 00-0086        | EA 24" x 36", 30 Layer Sticky Mat                | 42.59  |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 28.78  |  |
| 01 56 16 00-0087        | EA 25" x 45", 30 Layer Sticky Mat                | 56.30  |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 39.06  |  |
| 01 56 16 00-0088        | EA 36" x 36", 30 Layer Sticky Mat                | 61.78  |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 43.17  |  |
| 01 56 16 00-0089        | EA 36" x 46", 30 Layer Sticky Mat                | 67.26  |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 47.28  |  |
| 01 56 16 00-0090        | EA 36" x 60", 30 Layer Sticky Mat                | 135.78 |  |
|                         | <i>For 60 Layers Instead Of 30, Add</i>          | 98.67  |  |
| 01 56 16 00-0091        | EA 36" x 72", 30 Layer Sticky Mat                | 162.09 |  |

**01 56 26 Temporary Fencing** (01 56)

|                         |   |  |  |
|-------------------------|---|--|--|
| <b>01 56 26 00-0001</b> | <b>Temporary Fencing</b> <small>(01 56 26)</small>  |  |  |
|                         | <small>Note: Per ASTM A392-06 Standards</small>   |  |  |
| <b>01 56 26 00-0002</b> | <b>Temporary Chain Link Fence</b> <small>(01 56 26 00-0001)</small>   |  |  |
|                         | <small>Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts.</small> |  |  |
| <b>01 56 26 00-0003</b> | <b>Temporary Chain Link Fence, Up To 6 Months</b> <small>(01 56 26 00-0002)</small>                               |  |  |



|  |  |                                   |           |
|--|--|-----------------------------------|-----------|
|  |  | <b>General Requirements</b>       | <b>01</b> |
|  |  | Temporary Facilities and Controls | 01 50     |
|  |  | Temporary Barriers and Enclosures | 01 56     |

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| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months .....     | 6.36                      |                         |
| For >100 To 250, Deduct  | -0.15                     |                         |
| For >250 To 500, Deduct  | -0.30                     |                         |
| For >500, Deduct   | -0.45                     |                         |
| For Each LF Shade Cloth, Add   | 1.60                      |                         |
| 01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months .....     | 7.08                      |                         |
| For >100 To 250, Deduct  | -0.17                     |                         |
| For >250 To 500, Deduct  | -0.34                     |                         |
| For >500, Deduct   | -0.51                     |                         |
| For Each LF Shade Cloth, Add   | 2.55                      |                         |
| 01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months .....     | 9.75                      |                         |
| For >100 To 250, Deduct  | -0.29                     |                         |
| For >250 To 500, Deduct  | -0.57                     |                         |
| For >500, Deduct   | -0.86                     |                         |
| For Each LF Shade Cloth, Add   | 3.60                      |                         |
| 01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months .....    | 21.43                     |                         |
| For >100 To 250, Deduct  | -0.85                     |                         |
| For >250 To 500, Deduct  | -1.70                     |                         |
| For >500, Deduct   | -2.54                     |                         |
| For Each LF Shade Cloth, Add   | 4.75                      |                         |
| <b>01 56 26 00-0008 Temporary Chain Link Fence, &gt;6 To 12 Months (01 56 26 00-0002)</b>  |                           |                         |
| 01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months .....    | 6.67                      |                         |
| For >100 To 250, Deduct  | -0.17                     |                         |
| For >250 To 500, Deduct  | -0.33                     |                         |
| For >500, Deduct   | -0.50                     |                         |
| For Each LF Shade Cloth, Add   | 1.60                      |                         |
| 01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months .....    | 7.42                      |                         |
| For >100 To 250, Deduct  | -0.19                     |                         |
| For >250 To 500, Deduct  | -0.37                     |                         |
| For >500, Deduct   | -0.56                     |                         |
| For Each LF Shade Cloth, Add   | 2.55                      |                         |
| 01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months .....    | 10.31                     |                         |
| For >100 To 250, Deduct  | -0.31                     |                         |
| For >250 To 500, Deduct  | -0.63                     |                         |
| For >500, Deduct   | -0.94                     |                         |
| For Each LF Shade Cloth, Add   | 3.60                      |                         |
| 01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months .....   | 23.12                     |                         |
| For >100 To 250, Deduct  | -0.93                     |                         |
| For >250 To 500, Deduct  | -1.86                     |                         |
| For >500, Deduct   | -2.80                     |                         |
| For Each LF Shade Cloth, Add   | 4.75                      |                         |
| <b>01 56 26 00-0013 Temporary Chain Link Fence, &gt;12 To 18 Months (01 56 26 00-0002)</b> |                           |                         |
| 01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months .....   | 7.00                      |                         |
| For >100 To 250, Deduct  | -0.18                     |                         |
| For >250 To 500, Deduct  | -0.36                     |                         |
| For >500, Deduct   | -0.54                     |                         |
| For Each LF Shade Cloth, Add   | 1.60                      |                         |
| 01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months .....   | 7.80                      |                         |
| For >100 To 250, Deduct  | -0.20                     |                         |
| For >250 To 500, Deduct  | -0.41                     |                         |
| For >500, Deduct   | -0.61                     |                         |
| For Each LF Shade Cloth, Add   | 2.55                      |                         |
| 01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months .....   | 10.95                     |                         |
| For >100 To 250, Deduct  | -0.35                     |                         |
| For >250 To 500, Deduct  | -0.69                     |                         |
| For >500, Deduct   | -1.04                     |                         |
| For Each LF Shade Cloth, Add   | 3.60                      |                         |
| 01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months .....  | 24.98                     |                         |
| For >100 To 250, Deduct  | -1.03                     |                         |
| For >250 To 500, Deduct  | -2.05                     |                         |
| For >500, Deduct   | -3.08                     |                         |
| For Each LF Shade Cloth, Add   | 4.75                      |                         |
| <b>01 56 26 00-0018 Temporary Chain Link Fence, &gt;18 Months (01 56 26 00-0002)</b>       |                           |                         |
| 01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months .....         | 7.36                      |                         |
| For >100 To 250, Deduct  | -0.20                     |                         |
| For >250 To 500, Deduct  | -0.40                     |                         |
| For >500, Deduct   | -0.60                     |                         |
| For Each LF Shade Cloth, Add   | 1.60                      |                         |
| 01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months .....         | 8.18                      |                         |
| For >100 To 250, Deduct  | -0.22                     |                         |
| For >250 To 500, Deduct  | -0.45                     |                         |
| For >500, Deduct   | -0.67                     |                         |
| For Each LF Shade Cloth, Add   | 2.55                      |                         |
| 01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months .....         | 11.63                     |                         |
| For >100 To 250, Deduct  | -0.38                     |                         |
| For >250 To 500, Deduct  | -0.76                     |                         |
| For >500, Deduct   | -1.14                     |                         |
| For Each LF Shade Cloth, Add   | 3.60                      |                         |

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|--------------|--|
| <b>01</b>    | <b>General Requirements</b>              |
| <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
| <b>01 56</b> | <b>Temporary Barriers and Enclosures</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....  | 27.03                     |                         |
| For >100 To 250, Deduct   | -1.13                     |                         |
| For >250 To 500, Deduct   | -2.26                     |                         |
| For >500, Deduct  | -3.38                     |                         |
| For Each LF Shade Cloth, Add  | 4.75                      |                         |
| <b>01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)</b>   |                           |                         |
| Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0018 for core drilling in asphalt or concrete. |                           |                         |
| <b>01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)</b>   |                           |                         |
| <b>01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>  |                           |                         |
| 01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 253.82                    |                         |
| For Each LF Shade Cloth, Add  | 14.23                     |                         |
| 01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 431.39                    |                         |
| For Each LF Shade Cloth, Add  | 35.57                     |                         |
| 01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 483.02                    |                         |
| For Each LF Shade Cloth, Add  | 42.68                     |                         |
| 01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 549.83                    |                         |
| For Each LF Shade Cloth, Add  | 53.35                     |                         |
| 01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 658.55                    |                         |
| For Each LF Shade Cloth, Add  | 71.14                     |                         |
| 01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 733.06                    |                         |
| For Each LF Shade Cloth, Add  | 85.36                     |                         |
| <b>01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>  |                           |                         |
| 01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 271.77                    |                         |
| For Each LF Shade Cloth, Add  | 22.67                     |                         |
| 01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 465.96                    |                         |
| For Each LF Shade Cloth, Add  | 56.69                     |                         |
| 01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 522.88                    |                         |
| For Each LF Shade Cloth, Add  | 68.02                     |                         |
| 01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 605.97                    |                         |
| For Each LF Shade Cloth, Add  | 85.03                     |                         |
| 01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 732.47                    |                         |
| For Each LF Shade Cloth, Add  | 113.37                    |                         |
| 01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 831.24                    |                         |
| For Each LF Shade Cloth, Add  | 136.05                    |                         |
| <b>01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>  |                           |                         |
| 01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 303.50                    |                         |
| For Each LF Shade Cloth, Add  | 32.01                     |                         |
| 01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 534.07                    |                         |
| For Shade Cloth, Add  | 80.03                     |                         |
| 01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 597.28                    |                         |
| For Shade Cloth, Add  | 96.03                     |                         |
| 01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 683.78                    |                         |
| For Shade Cloth, Add  | 120.04                    |                         |
| 01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 835.67                    |                         |
| For Shade Cloth, Add  | 160.06                    |                         |
| 01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 970.00                    |                         |
| For Shade Cloth, Add  | 192.07                    |                         |
| <b>01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>   |                           |                         |
| 01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....   | 367.65                    |                         |
| For Each LF Shade Cloth, Add  | 42.24                     |                         |
| 01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 640.39                    |                         |
| For Each LF Shade Cloth, Add  | 105.59                    |                         |
| 01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 717.61                    |                         |
| For Each LF Shade Cloth, Add  | 126.71                    |                         |
| 01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 820.34                    |                         |
| For Each LF Shade Cloth, Add  | 158.39                    |                         |
| 01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 1,002.82                  |                         |
| For Each LF Shade Cloth, Add  | 211.18                    |                         |
| 01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....  | 1,158.69                  |                         |
| For Each LF Shade Cloth, Add  | 253.42                    |                         |
| <b>01 56 26 00-0053 Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0023)</b>   |                           |                         |
| <b>01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0053)</b>  |                           |                         |
| 01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....   | 263.35                    |                         |
| For Each LF Shade Cloth, Add  | 14.23                     |                         |
| 01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....  | 446.21                    |                         |
| For Each LF Shade Cloth, Add  | 35.57                     |                         |
| 01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....  | 499.96                    |                         |
| For Each LF Shade Cloth, Add  | 42.68                     |                         |
| 01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....  | 568.89                    |                         |
| For Each LF Shade Cloth, Add  | 53.35                     |                         |



|  |  |  |              |
|--|--|--|--------------|
|  |  | <b>General Requirements</b>              | <b>01</b>    |
|  |  | <b>Temporary Facilities and Controls</b> | <b>01 50</b> |
|  |  | <b>Temporary Barriers and Enclosures</b> | <b>01 56</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 681.84<br>71.14           |                         |
| 01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 758.47<br>85.36           |                         |
| <b>01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>         |                           |                         |
| 01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>   | 281.73<br>22.67           |                         |
| 01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 481.45<br>56.69           |                         |
| 01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 540.59<br>68.02           |                         |
| 01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 625.89<br>85.03           |                         |
| 01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 756.82<br>113.37          |                         |
| 01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 857.80<br>136.05          |                         |
| <b>01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>         |                           |                         |
| 01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>   | 314.46<br>32.01           |                         |
| 01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Shade Cloth, Add</i>          | 551.11<br>80.03           |                         |
| 01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Shade Cloth, Add</i>          | 616.76<br>96.03           |                         |
| 01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Shade Cloth, Add</i>          | 705.69<br>120.04          |                         |
| 01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Shade Cloth, Add</i>          | 862.45<br>160.06          |                         |
| 01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Shade Cloth, Add</i>          | 999.22<br>192.07          |                         |
| <b>01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>        |                           |                         |
| 01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i>  | 381.34<br>42.24           |                         |
| 01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i> | 661.69<br>105.59          |                         |
| 01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i> | 741.96<br>126.71          |                         |
| 01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i> | 847.73<br>158.39          |                         |
| 01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i> | 1,036.29<br>211.18        |                         |
| 01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months<br><i>For Each LF Shade Cloth, Add</i> | 1,195.22<br>253.42        |                         |
| <b>01 56 26 00-0082 Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0023)</small>                 |                           |                         |
| <b>01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>        |                           |                         |
| 01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i>  | 273.35<br>14.23           |                         |
| 01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 461.77<br>35.57           |                         |
| 01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 517.74<br>42.68           |                         |
| 01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 588.89<br>53.35           |                         |
| 01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 706.29<br>71.14           |                         |
| 01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 785.15<br>85.36           |                         |
| <b>01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>        |                           |                         |
| 01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i>  | 292.19<br>22.67           |                         |
| 01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 497.72<br>56.69           |                         |
| 01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 559.18<br>68.02           |                         |
| 01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 646.80<br>85.03           |                         |
| 01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 782.38<br>113.37          |                         |
| 01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months<br><i>For Each LF Shade Cloth, Add</i> | 885.68<br>136.05          |                         |

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| <b>01</b>    | <b>General Requirements</b>              |
| <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
| <b>01 56</b> | <b>Temporary Barriers and Enclosures</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>01 56 26 00-0097</b> 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>  |                           |                         |
| 01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                          | 325.96                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 32.01                     |                         |
| 01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                         | 569.01                    |                         |
| <i>For Shade Cloth, Add</i>  | 80.03                     |                         |
| 01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                         | 637.21                    |                         |
| <i>For Shade Cloth, Add</i>  | 96.03                     |                         |
| 01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                         | 728.70                    |                         |
| <i>For Shade Cloth, Add</i>  | 120.04                    |                         |
| 01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                         | 890.57                    |                         |
| <i>For Shade Cloth, Add</i>  | 160.06                    |                         |
| 01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                         | 1,029.90                  |                         |
| <i>For Shade Cloth, Add</i>  | 192.07                    |                         |
| <b>01 56 26 00-0104</b> 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small> |                           |                         |
| 01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                         | 395.72                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 42.24                     |                         |
| 01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                        | 684.06                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 105.59                    |                         |
| 01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                        | 767.52                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 126.71                    |                         |
| 01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                        | 876.49                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 158.39                    |                         |
| 01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                        | 1,071.44                  |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 211.18                    |                         |
| 01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....                        | 1,233.56                  |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 253.42                    |                         |
| <b>01 56 26 00-0111</b> Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0023)</small>                 |                           |                         |
| <b>01 56 26 00-0112</b> 4' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>        |                           |                         |
| 01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....                                | 283.35                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 14.23                     |                         |
| 01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 477.33                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 35.57                     |                         |
| 01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 535.53                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 42.68                     |                         |
| 01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 608.90                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 53.35                     |                         |
| 01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 730.74                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 71.14                     |                         |
| 01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 811.82                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 85.36                     |                         |
| <b>01 56 26 00-0119</b> 6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>        |                           |                         |
| 01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....                                | 302.65                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 22.67                     |                         |
| 01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 513.99                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 56.69                     |                         |
| 01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 577.77                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 68.02                     |                         |
| 01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 667.72                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 85.03                     |                         |
| 01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 807.95                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 113.37                    |                         |
| 01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 913.57                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 136.05                    |                         |
| <b>01 56 26 00-0126</b> 8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>        |                           |                         |
| 01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....                                | 337.47                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 32.01                     |                         |
| 01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 586.90                    |                         |
| <i>For Shade Cloth, Add</i>  | 80.03                     |                         |
| 01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 657.67                    |                         |
| <i>For Shade Cloth, Add</i>  | 96.03                     |                         |
| 01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 751.71                    |                         |
| <i>For Shade Cloth, Add</i>  | 120.04                    |                         |
| 01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 918.69                    |                         |
| <i>For Shade Cloth, Add</i>  | 160.06                    |                         |
| 01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 1,060.57                  |                         |
| <i>For Shade Cloth, Add</i>  | 192.07                    |                         |
| <b>01 56 26 00-0133</b> 10' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>       |                           |                         |
| 01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....                               | 410.10                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 42.24                     |                         |
| 01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....                              | 706.43                    |                         |
| <i>For Each LF Shade Cloth, Add</i>  | 105.59                    |                         |



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|  |  | <b>General Requirements</b>              | <b>01</b>    |
|  |  | <b>Temporary Facilities and Controls</b> | <b>01 50</b> |
|  |  | <b>Temporary Barriers and Enclosures</b> | <b>01 56</b> |

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| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                   | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|--|----------------------|
| 01 56 26 00-0136        | EA  |     | 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....<br><i>For Each LF Shade Cloth, Add</i>   | 793.09<br>126.71                         |                      |
| 01 56 26 00-0137        | EA  |     | 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....<br><i>For Each LF Shade Cloth, Add</i>   | 905.25<br>158.39                         |                      |
| 01 56 26 00-0138        | EA  |     | 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....<br><i>For Each LF Shade Cloth, Add</i>   | 1,106.60<br>211.18                       |                      |
| 01 56 26 00-0139        | EA  |     | 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....<br><i>For Each LF Shade Cloth, Add</i>   | 1,271.91<br>253.42                       |                      |
| <b>01 56 26 00-0140</b> |     |     | <b>Temporary Chain Link Fence Panels (Portable)</b> (01 56 26 00-0001)<br>Note: Includes delivery, set-up and removal. Excludes sandbags.  |  |                      |
| <b>01 56 26 00-0141</b> |     |     | <b>Temporary Chain Link Fence Panels (Portable), Up To 6 Months</b> (01 56 26 00-0140)   |  |                      |
| 01 56 26 00-0142        | LF  |     | Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>   | 6.95<br>-0.18<br>-0.36<br>-0.54<br>1.60  |                      |
| 01 56 26 00-0143        | LF  |     | Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>   | 7.72<br>-0.20<br>-0.40<br>-0.60<br>2.55  |                      |
| 01 56 26 00-0144        | LF  |     | Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>   | 10.52<br>-0.32<br>-0.65<br>-0.97<br>3.60 |                      |
| <b>01 56 26 00-0145</b> |     |     | <b>Temporary Chain Link Fence Panels (Portable), &gt;6 To 12 Months</b> (01 56 26 00-0140)   |  |                      |
| 01 56 26 00-0146        | LF  |     | Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>  | 7.26<br>-0.19<br>-0.39<br>-0.58<br>1.60  |                      |
| 01 56 26 00-0147        | LF  |     | Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>  | 8.06<br>-0.22<br>-0.44<br>-0.65<br>2.55  |                      |
| 01 56 26 00-0148        | LF  |     | Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>  | 11.08<br>-0.35<br>-0.70<br>-1.05<br>3.60 |                      |
| <b>01 56 26 00-0149</b> |     |     | <b>Temporary Chain Link Fence Panels (Portable), &gt;12 To 18 Months</b> (01 56 26 00-0140)  |  |                      |
| 01 56 26 00-0150        | LF  |     | Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i> | 7.56<br>-0.21<br>-0.42<br>-0.63<br>1.60  |                      |
| 01 56 26 00-0151        | LF  |     | Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i> | 8.44<br>-0.24<br>-0.47<br>-0.71<br>2.55  |                      |
| 01 56 26 00-0152        | LF  |     | Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i> | 11.72<br>-0.38<br>-0.77<br>-1.15<br>3.60 |                      |
| <b>01 56 26 00-0153</b> |     |     | <b>Temporary Chain Link Fence Panels (Portable), &gt;18 Months</b> (01 56 26 00-0140)  |  |                      |
| 01 56 26 00-0154        | LF  |     | Temporary 4' High Chain Link Fence Panels (Portable), >18 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>       | 7.95<br>-0.23<br>-0.46<br>-0.69<br>1.60  |                      |
| 01 56 26 00-0155        | LF  |     | Temporary 6' High Chain Link Fence Panels (Portable), >18 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>       | 8.82<br>-0.26<br>-0.51<br>-0.77<br>2.55  |                      |
| 01 56 26 00-0156        | LF  |     | Temporary 8' High Chain Link Fence Panels (Portable), >18 Months.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i><br><i>For Each LF Shade Cloth, Add</i>       | 12.38<br>-0.42<br>-0.83<br>-1.25<br>3.60 |                      |

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| <b>01</b>    | <b>General Requirements</b>              |
| <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
| <b>01 56</b> | <b>Temporary Barriers and Enclosures</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>01 56 26 00-0157</b> Temporary Chain Link Fence Panels (Portable) Sandbags <small>(01 56 26 00-0140)</small>                                      |                           |                         |
| 01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag.....<br>Note: Includes placement and removal.                              | 6.51                      |                         |
| <b>01 56 26 00-0159</b> Relocate Chain Link Fence, Gates And Panels <small>(01 56 26 00-0001)</small><br>Note: Excludes auguring/drilling for posts. |                           |                         |
| <b>01 56 26 00-0160</b> Relocate Temporary Chain Link Fence On Site <small>(01 56 26 00-0159)</small>  |                           |                         |
| 01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts .....  | 3.78                      |                         |
| 01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts .....  | 5.67                      |                         |
| 01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts .....  | 8.19                      |                         |
| 01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts .....   | 10.08                     |                         |
| <b>01 56 26 00-0165</b> Relocate Temporary Chain Link Fence Panels On Site <small>(01 56 26 00-0159)</small>   |                           |                         |
| 01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing .....   | 0.84                      |                         |
| 01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing .....   | 1.01                      |                         |
| 01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing .....   | 1.13                      |                         |
| <b>01 56 26 00-0169</b> Relocate Temporary Chain Link Gates On Site <small>(01 56 26 00-0159)</small>  |                           |                         |
| 01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts .....   | 109.67                    |                         |
| 01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts .....   | 126.55                    |                         |
| 01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts .....   | 156.07                    |                         |
| 01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts .....  | 168.73                    |                         |
| <b>01 56 26 00-0174</b> Temporary Safety Fence <small>(01 56 26)</small><br>Note: Includes removal after use.  |                           |                         |
| 01 56 26 00-0175 LF 48" High With Posts At 8" On Center, Plastic Mesh Temporary Safety Fence .....   | 3.35                      |                         |
| <b>01 56 29</b> Temporary Protective Walkways <small>(01 56)</small>   |                           |                         |
| <b>01 56 29 00-0001</b> Temporary Sidewalk Bridge Protection <small>(01 56 29)</small>   |                           |                         |
| <b>01 56 29 00-0002</b> Installation of Sidewalk Bridge <small>(01 56 29 00-0001)</small>  |                           |                         |
| 01 56 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....  | 181.10                    |                         |
| Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.                                       |                           |                         |
| For 3 Post System, Add   | 6.00                      |                         |
| For Each Additional Foot Over 8' Wide, Add   | 3.00                      |                         |
| For Each Additional Foot Over 8' High, Add   | 2.00                      |                         |
| 01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge.....   | 4.61                      |                         |
| <b>01 56 29 00-0005</b> Monthly Rental of Sidewalk Bridge <small>(01 56 29 00-0001)</small>  |                           |                         |
| 01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge<br>Assembly.....      | 14.94                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 2.24                      |                         |
| 01 56 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk<br>Bridge Assembly.....   | 16.82                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 2.52                      |                         |
| 01 56 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk<br>Bridge Assembly.....   | 18.69                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 2.80                      |                         |
| 01 56 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge<br>Assembly.....      | 18.69                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 2.80                      |                         |
| 01 56 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge<br>Assembly.....   | 20.54                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 3.08                      |                         |
| 01 56 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk<br>Bridge Assembly.....   | 24.31                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 3.65                      |                         |
| 01 56 29 00-0012 LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge<br>Assembly.....      | 22.44                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 3.37                      |                         |
| 01 56 29 00-0013 LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk<br>Bridge Assembly.....   | 26.18                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 3.93                      |                         |
| 01 56 29 00-0014 LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk<br>Bridge Assembly.....   | 28.00                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting and maintenance.  |                           |                         |
| For 3 Post System, Add   | 4.20                      |                         |



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|--|--|-----------------------------------|-----------|
|  |  | <b>General Requirements</b>       | <b>01</b> |
|  |  | Temporary Facilities and Controls | 01 50     |
|  |  | Temporary Barriers and Enclosures | 01 56     |

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| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 56 29 00-0015 LF Monthly Rental of Netting for Sidewalk Bridge.....   | 2.80                      |                         |
| <b>01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)</b>  |                           |                         |
| 01 56 29 00-0017 LF Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....   | 37.69                     |                         |
| Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.   |                           |                         |
| For 3 Post System, Add   | 2.50                      |                         |
| For Each Additional Foot Over 8' Wide, Add   | 1.25                      |                         |
| For Each Additional Foot Over 8' High, Add   | 0.75                      |                         |
| 01 56 29 00-0018 LF Removal Of Netting For Sidewalk Bridge .....   | 2.31                      |                         |
| <b>01 56 29 00-0019 Temporary Safety Nets (01 56 29)</b>   |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| 01 56 29 00-0020 SF Small Mesh Debris Netting .....  | 2.17                      |                         |
| Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.           |                           |                         |
| <b>01 56 33 Temporary Security Barriers (01 56)</b>  |                           |                         |
| <b>01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)</b>   |                           |                         |
| Note: For use where directed by owner for boarding up door and window openings.  |                           |                         |
| 01 56 33 00-0002 OPNG Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day .....                         | 12.66                     |                         |
| 01 56 33 00-0003 SF 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....  | 8.28                      |                         |
| 01 56 33 00-0004 SF 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....  | 9.56                      |                         |
| <b>01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)</b>  |                           |                         |
| Note: Portable, interlocking galvanized steel fence with pivoting legs.  |                           |                         |
| 01 56 33 00-0006 DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....  | 13.95                     |                         |
| 01 56 33 00-0007 WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....   | 33.89                     |                         |
| 01 56 33 00-0008 MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....   | 101.66                    |                         |
| <b>01 56 39 Temporary Tree and Plant Protection (01 56)</b>  |                           |                         |
| <b>01 56 39 00-0001 Temporary Tree Guards (01 56 39)</b>   |                           |                         |
| Note: Includes digging holes and removal after use.  |                           |                         |
| 01 56 39 00-0002 EA Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail..... | 189.30                    |                         |
| 01 56 39 00-0003 EA 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....       | 225.91                    |                         |
| 01 56 39 00-0004 EA 6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....       | 245.84                    |                         |
| <b>01 58 Project Identification (01 50)</b>  |                           |                         |
| Note: Includes removal after use.  |                           |                         |
| <b>01 58 13 Temporary Project Signage (01 58)</b>  |                           |                         |
| <b>01 58 13 00-0001 Project Sign (01 58 13)</b>  |                           |                         |
| <b>01 58 13 00-0002 MDO Plywood Signs (01 58 13 00-0001)</b>   |                           |                         |
| Note: Excludes posts.  |                           |                         |
| <b>01 58 13 00-0003 ReflectORIZED, MDO Plywood Signs (01 58 13 00-0002)</b>  |                           |                         |
| <b>01 58 13 00-0004 Engineer Grade, ReflectORIZED, MDO Plywood Signs (01 58 13 00-0003)</b>  |                           |                         |
| 01 58 13 00-0005 EA Up To 8 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....   | 169.95                    | 23.21                   |
| For High-Intensity Grade, Add  | 43.24                     |                         |
| For Diamond Grade, Add   | 83.40                     |                         |
| 01 58 13 00-0006 EA >8 To 16 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign.....   | 295.61                    | 24.26                   |
| For High-Intensity Grade, Add  | 86.49                     |                         |
| For Diamond Grade, Add   | 166.79                    |                         |
| 01 58 13 00-0007 EA >16 To 24 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign.....  | 421.27                    | 25.31                   |
| For High-Intensity Grade, Add  | 129.73                    |                         |
| For Diamond Grade, Add   | 250.19                    |                         |
| 01 58 13 00-0008 EA >24 To 32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign.....  | 546.94                    | 26.37                   |
| For High-Intensity Grade, Add  | 172.97                    |                         |
| For Diamond Grade, Add   | 333.59                    |                         |
| 01 58 13 00-0009 SF >32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....   | 17.13                     | 0.84                    |
| For High-Intensity Grade, Add  | 5.40                      |                         |
| For Diamond Grade, Add   | 10.42                     |                         |
| <b>01 58 13 00-0010 Non-ReflectORIZED, MDO Plywood Signs (01 58 13 00-0002)</b>  |                           |                         |
| <b>01 58 13 00-0011 One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Signs (01 58 13 00-0010)</b>   |                           |                         |
| 01 58 13 00-0012 EA Up To 8 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign.....  | 214.03                    | 23.21                   |
| 01 58 13 00-0013 EA >8 To 16 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign .....  | 256.14                    | 24.26                   |
| 01 58 13 00-0014 EA >16 To 24 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign .....   | 322.06                    | 25.31                   |
| 01 58 13 00-0015 EA >24 To 32 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign .....   | 384.30                    | 26.37                   |



|           |              |  |
|-----------|--------------|--|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>              |
|           | <b>01 50</b> | <b>Temporary Facilities and Controls</b> |
|           | <b>01 58</b> | <b>Project Identification</b>            |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 58 13 00-0016 SF >32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign .....     | 12.05                     | 0.84                    |
| <b>01 58 13 00-0017 Full Color Design, Non-Reflectorized, MDO Plywood Signs</b> (01 58 13 00-0010) |                           |                         |
| 01 58 13 00-0018 EA Up To 8 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....        | 218.74                    | 23.21                   |
| 01 58 13 00-0019 EA >8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign .....      | 281.59                    | 24.26                   |
| 01 58 13 00-0020 EA >16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign .....     | 347.91                    | 25.31                   |
| 01 58 13 00-0021 EA >24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign .....     | 406.46                    | 26.37                   |
| 01 58 13 00-0022 SF >32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign .....           | 12.74                     | 0.84                    |
| <b>01 58 13 00-0023 Fabricate And Install New Posts</b> (01 58 13 00-0001)                         |                           |                         |
| Note: Includes excavation, backfill and compaction. Excludes core drilling.                        |                           |                         |
| 01 58 13 00-0024 LF Galvanized Metal Channel Sign Posts.....                                       | 18.59                     |                         |
| 01 58 13 00-0025 LF 4" x 4" Pressure Treated Wood Sign Posts .....                                 | 13.98                     |                         |
| 01 58 13 00-0026 LF 4" x 6" Pressure Treated Wood Sign Posts .....                                 | 16.87                     |                         |
| <b>01 58 13 00-0027 Owner Supplied Signs</b> (01 58 13 00-0001)                                    |                           |                         |
| 01 58 13 00-0028 EA Installation And Removal Of Owner Supplied Project Sign .....                  | 84.38                     |                         |

**01 60 Product Requirements** (01)

**01 66 Product Storage and Handling Requirements** (01 60)

**01 66 19 Product Handling Requirements** (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

**01 66 19 00-0001 Transfer Delivered Materials Between Floors** (01 66 19)

Note: For moving delivered, owner supplied or existing materials in a building.

|  |       |
|--|-------|
| 01 66 19 00-0002 CY Transfer Delivered Material Between Floors Via Stairs, Per Floor ..... | 16.22 |
|--|-------|

Note: Quantity equals volume of materials multiplied by number of floors traveled.

|   |       |
|---|-------|
| 01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip ..... | 10.55 |
|---|-------|

Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.

**01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125'** (01 66 19)

Note: For moving delivered, owner supplied or existing materials in a building.

|   |      |
|---|------|
| 01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125' ..... | 6.59 |
|---|------|

**01 66 19 00-0006 Transfer Demolition Debris Between Floors** (01 66 19)

Note: Only for use with demolition tasks.

|   |       |
|---|-------|
| 01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor ..... | 16.22 |
|---|-------|

Note: Quantity equals material volume times bulk factor times number of floors traveled.

|  |       |
|--|-------|
| 01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip ..... | 10.55 |
|--|-------|

Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.

**01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125'** (01 66 19)

Note: Only for use with demolition tasks.

|   |      |
|---|------|
| 01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125' ..... | 6.59 |
|---|------|

**01 66 19 00-0011 Moving Furniture And Furnishings** (01 66 19)

Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.

|   |      |
|---|------|
| 01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings..... | 1.05 |
|---|------|

Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.

**01 70 Execution and Closeout Requirements** (01)

**01 71 Examination and Preparation** (01 70)

**01 71 13 Mobilization** (01 71)

**01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization** (01 71 13)

Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery.

|  |        |
|--|--------|
| 01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck ..... | 482.46 |
|--|--------|

Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.



|  |              |           |
|--|--------------|-----------|
| <b>General Requirements</b>                | <b>01</b>    | <b>10</b> |
| <b>Execution and Closeout Requirements</b> | <b>01 70</b> |           |
| <b>Examination and Preparation</b>         | <b>01 71</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....   | 1,552.93                  |                         |
| Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. |                           |                         |
| <b>01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization <small>(01 71 13)</small></b>   |                           |                         |
| Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.  |                           |                         |
| 01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....  | 514.61                    |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 128.65                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 205.84                    |                         |
| 01 71 13 00-0006 EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane .....  | 836.26                    |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 209.07                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 334.50                    |                         |
| 01 71 13 00-0007 EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane .....  | 1,157.90                  |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 289.48                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 463.16                    |                         |
| 01 71 13 00-0008 EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane .....   | 1,865.49                  |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 466.37                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 746.20                    |                         |
| 01 71 13 00-0009 EA >110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane .....  | 2,341.52                  |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 585.38                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 936.61                    |                         |
| 01 71 13 00-0010 EA >125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane .....  | 2,914.03                  |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 728.51                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 1,165.61                  |                         |
| 01 71 13 00-0011 EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane .....  | 3,357.88                  |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 839.47                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 1,343.15                  |                         |
| 01 71 13 00-0012 EA >185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane .....  | 3,756.72                  |                         |
| Note: Includes delivery and pickup.   |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 939.18                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 1,502.69                  |                         |
| 01 71 13 00-0013 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....   | 1,994.15                  |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 498.54                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 797.66                    |                         |
| 01 71 13 00-0014 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 3,152.04                  |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 788.01                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 1,260.82                  |                         |
| 01 71 13 00-0015 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 3,988.29                  |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 997.07                    |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 1,595.32                  |                         |
| 01 71 13 00-0016 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 4,953.20                  |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 1,238.30                  |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 1,981.28                  |                         |
| 01 71 13 00-0017 EA 200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 6,175.43                  |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 1,543.86                  |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 2,470.17                  |                         |
| 01 71 13 00-0018 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 7,204.67                  |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 1,801.17                  |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 2,881.87                  |                         |
| 01 71 13 00-0019 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 10,292.38                 |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 2,573.10                  |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 4,116.95                  |                         |
| 01 71 13 00-0020 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....  | 14,113.42                 |                         |
| Note: Includes delivery, rigging and pickup.  |                           |                         |
| <i>For &gt;30 To 60 Miles Radius, Add</i>   |                           |                         |
|   | 3,528.36                  |                         |
| <i>For &gt;60 To 100 Miles Radius, Add</i>  |                           |                         |
|   | 5,645.37                  |                         |
| <b>01 71 23 Field Engineering <small>(01 71)</small></b>  |                           |                         |
| <b>01 71 23 16 Construction Surveying <small>(01 71 23)</small></b>   |                           |                         |
| <b>01 71 23 16-0001 Conventional Topographic Survey <small>(01 71 23 16)</small></b>  |                           |                         |
| Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.  |                           |                         |
| 01 71 23 16-0002 ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles .....   | 1,232.43                  |                         |

|           |              |  |
|-----------|--------------|--|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>                |
|           | <b>01 70</b> | <b>Execution and Closeout Requirements</b> |
|           | <b>01 71</b> | <b>Examination and Preparation</b>         |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 01 71 23 16-0003        | ACR |     | Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....                       | 3,415.44               |                      |
| 01 71 23 16-0004        | ACR |     | Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings).....                           | 4,908.17               |                      |
| 01 71 23 16-0005        | ACR |     | Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....                                | 7,353.37               |                      |
| 01 71 23 16-0006        | ACR |     | Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....                              | 9,195.93               |                      |
| <b>01 71 23 16-0007</b> |     |     | <b>Property Lines Survey</b> <small>(01 71 23 16)</small>   |                        |                      |
|                         |     |     | Note: Not to be added to tasks in the "Conventional Topographic Survey" section.  |                        |                      |
| 01 71 23 16-0008        | LF  |     | Survey Property Lines On Cleared Land.....  | 2.69                   |                      |
| 01 71 23 16-0009        | LF  |     | Survey Property Lines On Slightly Wooded Land.....  | 3.12                   |                      |
| 01 71 23 16-0010        | LF  |     | Survey Property Lines On Wooded Land.....   | 3.65                   |                      |
| <b>01 71 23 16-0011</b> |     |     | <b>Survey Monument</b> <small>(01 71 23 16)</small>   |                        |                      |
| 01 71 23 16-0012        | EA  |     | 3' Precast Survey Monument.....   | 197.04                 |                      |
|                         |     |     | <i>For Owner Furnished Monument, Deduct</i>   | -76.01                 |                      |
| 01 71 23 16-0013        | EA  |     | Precast Survey Monument Box With Cast Iron Frame And Cover.....   | 295.86                 |                      |
| 01 71 23 16-0014        | EA  |     | Riser Ring For Survey Monument.....   | 153.31                 |                      |
| 01 71 23 16-0015        | EA  |     | Adjust Survey Monument Cover To Grade.....  | 228.03                 |                      |
| <b>01 71 23 16-0016</b> |     |     | <b>Facade Surveying</b> <small>(01 71 23 16)</small>  |                        |                      |
| 01 71 23 16-0017        | LF  |     | Facade Survey And Reports (LF Of Facade x Number Of Floors).....  | 7.39                   |                      |
| <b>01 71 23 16-0018</b> |     |     | <b>Utility Survey</b> <small>(01 71 23 16)</small>  |                        |                      |
|                         |     |     | Note: This survey is only for the location of underground utilities.  |                        |                      |
| 01 71 23 16-0019        | ACR |     | Survey Clear Area For Underground Utilities.....  | 6,241.91               |                      |
| <b>01 71 23 16-0020</b> |     |     | <b>GPR Bridge Deck And Pavement Inspection</b> <small>(01 71 23 16)</small>   |                        |                      |
| <b>01 71 23 16-0021</b> |     |     | <b>GPR Bridge Deck And Pavement Inspection Mobilization Fee</b> <small>(01 71 23 16-0020)</small>                                 |                        |                      |
|                         |     |     | Note: One mobilization per project.   |                        |                      |
| 01 71 23 16-0022        | EA  |     | GPR Bridge Deck And Pavement Inspection Mobilization Fee.....   | 3,772.84               |                      |
| <b>01 71 23 16-0023</b> |     |     | <b>Bridge Deck Delamination Survey, GPR Bridge Deck Inspection</b> <small>(01 71 23 16-0020)</small>                              |                        |                      |
|                         |     |     | Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed. |                        |                      |
| 01 71 23 16-0024        | EA  |     | Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....  | 2,905.20               |                      |
| 01 71 23 16-0025        | SF  |     | Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....  | 1.22                   |                      |
| 01 71 23 16-0026        | SF  |     | >5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....   | 0.97                   |                      |
| 01 71 23 16-0027        | SF  |     | >10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....  | 0.77                   |                      |
| 01 71 23 16-0028        | SF  |     | >25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....  | 0.58                   |                      |
| 01 71 23 16-0029        | SF  |     | >50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....   | 0.46                   |                      |
| 01 71 23 16-0030        | SF  |     | >100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....  | 0.37                   |                      |
| 01 71 23 16-0031        | SF  |     | >250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....   | 0.27                   |                      |
| <b>01 71 23 16-0032</b> |     |     | <b>Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection</b> <small>(01 71 23 16-0020)</small>              |                        |                      |
|                         |     |     | Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed. |                        |                      |
| 01 71 23 16-0033        | EA  |     | Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection.....                                      | 968.40                 |                      |
| 01 71 23 16-0034        | SF  |     | Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection.....  | 0.06                   |                      |
| <b>01 71 23 16-0035</b> |     |     | <b>Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection</b> <small>(01 71 23 16-0020)</small>                   |                        |                      |
|                         |     |     | Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed. |                        |                      |
| 01 71 23 16-0036        | EA  |     | Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....   | 968.40                 |                      |
| 01 71 23 16-0037        | SF  |     | Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....                                       | 0.45                   |                      |
| 01 71 23 16-0038        | SF  |     | >5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....                                  | 0.35                   |                      |
| 01 71 23 16-0039        | SF  |     | >10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....                                 | 0.27                   |                      |
| 01 71 23 16-0040        | SF  |     | >25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....                                 | 0.21                   |                      |
| 01 71 23 16-0041        | SF  |     | >50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....                                | 0.17                   |                      |
| 01 71 23 16-0042        | SF  |     | >100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....                               | 0.14                   |                      |
| 01 71 23 16-0043        | SF  |     | >250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....  | 0.10                   |                      |
| <b>01 71 23 16-0044</b> |     |     | <b>Pavement Structure And Thickness Measurement, GPR Pavement Inspection</b> <small>(01 71 23 16-0020)</small>                    |                        |                      |
|                         |     |     | Note: Each project will use one task for the length of the pavement surveyed.   |                        |                      |
| 01 71 23 16-0045        | LM  |     | Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection.....                               | 7,201.02               |                      |
| 01 71 23 16-0046        | LM  |     | >4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection.....                               | 3,139.55               |                      |
| 01 71 23 16-0047        | LM  |     | >9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection.....                              | 2,337.72               |                      |
| 01 71 23 16-0048        | LM  |     | >49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection.....                             | 1,276.35               |                      |
| 01 71 23 16-0049        | LM  |     | >99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection.....                                   | 1,003.26               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>01 71 23 16-0050</b> <b>Pavement Thickness Contour (Mapping), GPR Pavement Inspection</b> <small>(01 71 23 16-0020)</small>               |                           |                         |
| <i>Note: Each project will use one task for the length of the pavement surveyed.</i>   |                           |                         |
| 01 71 23 16-0051 LM Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....                             | 9,163.00                  |                         |
| 01 71 23 16-0052 LM >4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....                             | 4,309.38                  |                         |
| 01 71 23 16-0053 LM >9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....                            | 3,273.19                  |                         |
| 01 71 23 16-0054 LM >49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....                           | 1,834.15                  |                         |
| 01 71 23 16-0055 LM >99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....                                 | 1,450.66                  |                         |
| <b>01 71 23 16-0056</b> <b>Pavement Void Detection (Mapping), GPR Pavement Inspection</b> <small>(01 71 23 16-0020)</small>                  |                           |                         |
| <i>Note: Each project will use one task for the length of the pavement surveyed.</i>   |                           |                         |
| 01 71 23 16-0057 LM Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....                                | 10,880.94                 |                         |
| 01 71 23 16-0058 LM >4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....                                | 5,332.01                  |                         |
| 01 71 23 16-0059 LM >9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....                               | 4,090.52                  |                         |
| 01 71 23 16-0060 LM >49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....                              | 2,322.22                  |                         |
| 01 71 23 16-0061 LM >99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....                                    | 1,839.96                  |                         |
| <b>01 71 23 16-0062</b> <b>Drone Survey (Extreme Aerial Productions)</b> <small>(01 71 23 16)</small>  |                           |                         |
| <i>Note: Thermographic services to electrical line grid inspections.</i>   |                           |                         |
| <b>01 71 23 16-0063</b> <b>Mobilization For Drone Surveying</b> <small>(01 71 23 16-0062)</small>  |                           |                         |
| 01 71 23 16-0064 EA Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing ..... | 260.36                    |                         |
| 01 71 23 16-0065 EA Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing .....      | 650.89                    |                         |
| 01 71 23 16-0066 EA Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter .....  | 173.57                    |                         |
| 01 71 23 16-0067 EA Mobilization For Drone Road Survey For Topography/Progression/Inspection .....   | 347.14                    |                         |
| 01 71 23 16-0068 EA Mobilization For Drone Survey Stockpile .....  | 173.57                    |                         |
| 01 71 23 16-0069 EA Mobilization For Drone Inspection .....  | 173.57                    |                         |
| 01 71 23 16-0070 EA Mobilization For Qualitative Drone Thermal Inspection .....  | 347.14                    |                         |
| 01 71 23 16-0071 EA Mobilization For Quantitative Drone Thermal Inspection .....   | 433.92                    |                         |
| 01 71 23 16-0072 EA Mobilization For Drone Agricultural Multispectral Survey .....   | 694.28                    |                         |
| 01 71 23 16-0073 EA Mobilization For Drone Building Inspection/Scan/Thermal .....  | 520.71                    |                         |
| 01 71 23 16-0074 EA Mobilization For Drone 3D Modelling .....  | 433.92                    |                         |
| 01 71 23 16-0075 EA Mobilization For Drone Spraying Crops Or Sanitation .....  | 781.06                    |                         |
| 01 71 23 16-0076 EA Mobilization For Drone Video Progression/Marketing .....   | 173.57                    |                         |
| 01 71 23 16-0077 EA Mobilization For Drone Pictures Progression/Marketing .....  | 173.57                    |                         |
| 01 71 23 16-0078 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks .....   | 173.57                    |                         |
| 01 71 23 16-0079 EA Mobilization For Drone Accident Reconstruction .....   | 173.57                    |                         |
| 01 71 23 16-0080 EA Mobilization For Drone Landfill Survey .....   | 260.36                    |                         |
| 01 71 23 16-0081 EA Mobilization For Drone Event Security Using Tethered Drones .....  | 347.14                    |                         |
| 01 71 23 16-0082 EA Mobilization For Drone Emergency Response .....  | 867.85                    |                         |
| 01 71 23 16-0083 EA Mobilization For Drone Cell Tower Inspection .....   | 260.36                    |                         |
| <b>01 71 23 16-0084</b> <b>Drone Surveying</b> <small>(01 71 23 16-0062)</small>   |                           |                         |
| 01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing .....                  | 633.53                    |                         |
| <i>Note: 3 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 173.57                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |
| 01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing .....                      | 807.10                    |                         |
| <i>For Visual Observation, Add</i>   |                           | 260.36                  |
| <i>For Additional Manpower, Add</i>  |                           | 208.28                  |
| 01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter .....                   | 520.71                    |                         |
| <i>Note: 3 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 173.57                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |
| 01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection .....  | 607.50                    |                         |
| <i>Note: 3 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 260.36                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |
| 01 71 23 16-0089 HR Drone Survey Stockpile .....   | 433.92                    |                         |
| <i>Note: 3 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 173.57                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |
| 01 71 23 16-0090 HR Drone Inspection .....   | 607.50                    |                         |
| <i>Note: 3 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 173.57                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |
| 01 71 23 16-0091 HR Qualitative Drone Thermal Inspection .....   | 694.28                    |                         |
| <i>Note: 5 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 260.36                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |
| 01 71 23 16-0092 HR Quantitative Drone Thermal Inspection .....  | 1,041.42                  |                         |
| <i>Note: 5 hour minimum</i>  |                           |                         |
| <i>For Visual Observation, Add</i>   |                           | 260.36                  |
| <i>For Additional Manpower, Add</i>  |                           | 173.57                  |

|           |              |  |
|-----------|--------------|--|
| <b>01</b> | <b>01</b>    | <b>General Requirements</b>                |
|           | <b>01 70</b> | <b>Execution and Closeout Requirements</b> |
|           | <b>01 71</b> | <b>Examination and Preparation</b>         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|---|--------------------------------|-------------------------|
| 01 71 23 16-0093 HR Drone Agricultural Multispectral Survey .....<br>Note: 6 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>  | 781.06<br><br>173.57<br>173.57 |                         |
| 01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>   | 694.28<br><br>260.36<br>173.57 |                         |
| 01 71 23 16-0095 HR Drone 3D Modelling .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>   | 520.71<br><br>260.36<br>173.57 |                         |
| 01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>   | 694.28<br><br>216.96<br>173.57 |                         |
| 01 71 23 16-0097 HR Drone Video Progression/Marketing .....<br>Note: 2 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>  | 347.14<br><br>173.57<br>173.57 |                         |
| 01 71 23 16-0098 HR Drone Pictures Progression/Marketing .....<br>Note: 2 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>   | 260.36<br><br>173.57<br>173.57 |                         |
| 01 71 23 16-0099 HR Drone Training, Flying, Test Prep, Equipment Checks .....<br>Note: 3 hour minimum   | 520.71                         |                         |
| 01 71 23 16-0100 HR Drone Accident Reconstruction .....<br>Note: 2 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>  | 781.06<br><br>173.57<br>173.57 |                         |
| 01 71 23 16-0101 HR Drone Landfill Survey .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>  | 633.53<br><br>173.57<br>173.57 |                         |
| 01 71 23 16-0102 HR Drone Event Security Using Tethered Drones .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>   | 433.92<br><br>173.57<br>173.57 |                         |
| 01 71 23 16-0103 HR Drone Emergency Response .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>   | 433.92<br><br>260.36<br>173.57 |                         |
| 01 71 23 16-0104 HR Drone Cell Tower Inspection .....<br>Note: 3 hour minimum<br><i>For Visual Observation, Add</i><br><i>For Additional Manpower, Add</i>  | 433.92<br><br>216.96<br>173.57 |                         |
| <b>01 71 23 16-0105 Utilization And Deliverables For Drone Surveying (01 71 23 16-0062)</b>   |                                |                         |
| 01 71 23 16-0106 Day Utilization Of GPS Ground Control For Drone Surveying.....   | 433.92                         |                         |
| 01 71 23 16-0107 Day Utilization Of GPS Base Station Per Day For Drone Surveying.....   | 433.92                         |                         |
| 01 71 23 16-0108 HR Processing And Data Deliverables And Reporting For Drone Surveying.....<br>Note: 2 hour minimum   | 173.57                         |                         |
| 01 71 23 16-0109 HR Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying.....<br>Note: 3 hour minimum  | 347.14                         |                         |
| <b>01 71 23 16-0110 Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)</b>   |                                |                         |
| 01 71 23 16-0111 MI Travel Over 100 Miles For Drone Surveying.....<br>Note: For additional miles over 100   | 1.00                           |                         |
| 01 71 23 16-0112 EA Overnight Stay Per Person For Drone Surveying.....  | 216.96                         |                         |
| 01 71 23 16-0113 EA Waiver Utilization B, C, D, And E For Drone Surveying.....<br>Note: Restricted airspace   | 86.78                          |                         |
| 01 71 23 16-0114 EA Night Waiver For Drone Surveying.....   | 112.82                         |                         |
| 01 71 23 16-0115 EA Flying Over People Waiver For Drone Surveying.....  | 173.57                         |                         |
| 01 71 23 16-0116 EA Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....   | 867.85                         |                         |
| 01 71 23 16-0117 HR Editing Video For Drone Surveying.....<br>Note: 2 hour minimum  | 173.57                         |                         |
| 01 71 23 16-0118 HR Editing Pictures For Drone Surveying.....<br>Note: 2 hour minimum   | 86.78                          |                         |
| 01 71 23 16-0119 HR Custom Post Processing For Drone Surveying.....<br>Note: 3 hour minimum   | 260.36                         |                         |
| <b>01 71 36 Non-Destructive Concrete Examination (01 71)</b>  |                                |                         |
| <b>01 71 36 00-0001 Electromagnetic Survey (01 71 36)</b><br>Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR). |                                |                         |
| <b>01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)</b>   |                                |                         |
| 01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....  | 1,120.20                       |                         |
| 01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....   | 1,680.30                       |                         |



|  |              |           |
|--|--------------|-----------|
| <b>General Requirements</b>                | <b>01</b>    | <b>10</b> |
| <b>Execution and Closeout Requirements</b> | <b>01 70</b> |           |
| <b>Examination and Preparation</b>         | <b>01 71</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....  | 3,360.60                  |                         |
| <b>01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys</b> (01 71 36 00-0001)   |                           |                         |
| 01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....   | 373.40                    |                         |
| Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos. |                           |                         |
| 01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....  | 746.80                    |                         |
| Note: Includes GPS coordinates of located items and reference items.   |                           |                         |
| 01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....  | 1,680.30                  |                         |
| Note: Includes additions to the owner provided CAD drawing.  |                           |                         |

**01 74 Cleaning and Waste Management** (01 70)

**01 74 13 Progress Cleaning** (01 74)

Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.

**01 74 13 00-0001 General** (01 74 13)

|   |       |
|---|-------|
| 01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent..... | 21.12 |
| 01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster.....      | 24.73 |
| Note: Per CY of debris removed.   |       |

**01 74 16 Site Maintenance** (01 74)

**01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance** (01 74 16)

Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.

**01 74 16 00-0002 Parking Lot, Road, And Street Sweeping** (01 74 16 00-0001)

|  |       |
|--|-------|
| 01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....                     | 22.34 |
| 01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads..... | 26.82 |

**01 74 16 00-0005 Runway Sweeping** (01 74 16 00-0001)

|   |       |
|---|-------|
| 01 74 16 00-0006 MSF Sweep Runway, With Street Sweep..... | 33.53 |
|---|-------|

**01 74 19 Construction Waste Management and Disposal** (01 74)

Note: Tasks in this section shall be used as directed by owner.

**01 74 19 00-0001 Debris Chutes** (01 74 19)

Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.

**01 74 19 00-0002 Steel Temporary Debris Chutes** (01 74 19 00-0001)

|   |       |
|---|-------|
| 01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute..... | 42.05 |
| 01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute..... | 63.77 |

**01 74 19 00-0005 Plastic Temporary Debris Chutes** (01 74 19 00-0001)

|   |       |
|---|-------|
| 01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute..... | 16.65 |
| <i>For Steel Liner, Add</i>   |       |
|   | 3.27  |
| 01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute..... | 19.08 |
| <i>For Steel Liner, Add</i>   |       |
|   | 3.75  |
| 01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute..... | 21.51 |
| <i>For Steel Liner, Add</i>   |       |
|   | 4.23  |

**01 74 19 00-0009 Wood Temporary Debris Chutes** (01 74 19 00-0001)

|   |       |
|---|-------|
| 01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute..... | 32.86 |
| Note: Includes fabrication and installation.                  |       |

**01 74 19 00-0011 Construction Dumpsters Rental** (01 74 19)

Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.

|  |        |
|--|--------|
| 01 74 19 00-0012 EA 10 CY Dumpster (1.5 Ton) "Construction Debris".....  | 587.50 |
| Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. |        |
| <i>For Each Ton Over Indicated Amount, Add</i>   |        |
|  | 95.00  |
| 01 74 19 00-0013 EA 15 CY Dumpster (2 Ton) "Construction Debris".....  | 634.88 |
| Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. |        |
| <i>For Each Ton Over Indicated Amount, Add</i>   |        |
|  | 95.00  |

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|--------------|--|
| <b>01</b>    | <b>General Requirements</b>                |
| <b>01 70</b> | <b>Execution and Closeout Requirements</b> |
| <b>01 74</b> | <b>Cleaning and Waste Management</b>       |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 01 74 19 00-0014 EA 20 CY Dumpster (3 Ton) "Construction Debris".....   | 685.00                    |                         |
| Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.  |                           |                         |
| For Each Ton Over Indicated Amount, Add   | 95.00                     |                         |
| 01 74 19 00-0015 EA 30 CY Dumpster (4 Ton) "Construction Debris".....   | 734.96                    |                         |
| Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.  |                           |                         |
| For Each Ton Over Indicated Amount, Add   | 95.00                     |                         |
| 01 74 19 00-0016 EA 40 CY Dumpster (6 Ton) "Construction Debris".....   | 814.98                    |                         |
| Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.  |                           |                         |
| For Each Ton Over Indicated Amount, Add   | 95.00                     |                         |
| 01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....  | 714.85                    |                         |
| Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.  |                           |                         |
| 01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable.....  | 780.05                    |                         |
| Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.  |                           |                         |
| 01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable.....  | 838.26                    |                         |
| Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.  |                           |                         |
| <b>01 74 19 00-0020 Concrete Washout Service (01 74 19)</b>   |                           |                         |
| 01 74 19 00-0021 MO Rampless Concrete Washout Bin.....  | 589.50                    |                         |
| Note: Includes delivery.  |                           |                         |
| 01 74 19 00-0022 MO Ramped Concrete Washout Bin.....  | 707.40                    |                         |
| Note: Includes delivery.  |                           |                         |
| 01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin.....   | 617.19                    |                         |
| Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.   |                           |                         |
| 01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin.....  | 1,337.24                  |                         |
| Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.  |                           |                         |
| <b>01 74 19 00-0025 Debris Processing Fee (01 74 19)</b>  |                           |                         |
| <b>01 74 19 00-0026 Material Recycling Fees (01 74 19 00-0025)</b>  |                           |                         |
| Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.  |                           |                         |
| 01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center.....   | 46.33                     |                         |
| 01 74 19 00-0028 CY Drop-Off Non-Reinforced Concrete At Recycling Center.....   | 62.07                     |                         |
| 01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....   | 93.10                     |                         |
| 01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center.....  | 80.69                     |                         |
| 01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....  | 90.00                     |                         |
| 01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....  | 86.90                     |                         |
| <b>01 74 19 00-0033 Landfill Dump Fees (01 74 19 00-0025)</b>   |                           |                         |
| Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.  |                           |                         |
| 01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....  | 41.30                     |                         |
| 01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee.....  | 180.00                    |                         |
| 01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee.....   | 49.72                     |                         |
| 01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee.....  | 118.56                    |                         |
| Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.   |                           |                         |
| 01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....   | 84.24                     |                         |
| <b>01 74 19 00-0039 Hauling (01 74 19)</b>  |                           |                         |
| Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM. |                           |                         |
| 01 74 19 00-0040 CYM Hauling On Paved Roads, First 15 Miles.....  | 1.00                      |                         |
| 01 74 19 00-0041 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....   | 0.67                      |                         |
| 01 74 19 00-0042 CYM Hauling On Unimproved Roads, First 15 Miles.....   | 1.53                      |                         |
| 01 74 19 00-0043 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....  | 1.20                      |                         |
| <b>01 74 23 Final Cleaning (01 74)</b>  |                           |                         |
| <b>01 74 23 00-0001 Cleaning Of Glass (01 74 23)</b>  |                           |                         |
| 01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces.....   | 29.03                     |                         |

**END OF SECTION 01**



|                              |           |           |
|------------------------------|-----------|-----------|
| <b>Existing Conditions</b>   | <b>02</b> | <b>02</b> |
| Assessment                   | 02 20     |           |
| Existing Material Assessment | 02 25     |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 02 Existing Conditions

### 02 20 Assessment <sup>(02)</sup>

#### 02 25 Existing Material Assessment <sup>(02 20)</sup>

##### 02 25 16 Existing Concrete, Masonry or Asphalt Assessment <sup>(02 25)</sup>

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

##### 02 25 16 13 Concrete Assessment Drilling <sup>(02 25 16)</sup>

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

### 02 40 Demolition and Structure Moving <sup>(02)</sup>

#### 02 41 Demolition <sup>(02 40)</sup>

##### 02 41 19 Selective Demolition <sup>(02 41)</sup>

##### 02 41 19 13 Selective Building Demolition <sup>(02 41 19)</sup>

##### 02 41 19 13-001 Saw Cutting <sup>(02 41 19 13)</sup>

Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.

|                 |    |   |          |
|-----------------|----|---|----------|
| 02 41 19 13-002 | LF | Brick Masonry Up To 4" Depth, Saw Cut.....                        | 8.52     |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 3.38     |
|                 |    | For >250, Deduct  | -0.84    |
| 02 41 19 13-003 | LF | Concrete Block Up To 4" Depth, Saw Cut.....                       | 7.71     |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 3.05     |
|                 |    | For >250, Deduct  | -0.76    |
| 02 41 19 13-004 | LF | Saw Cut Concrete Slab Up To 4" Depth.....                         | 2.59     |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 1.00     |
|                 |    | For >250, Deduct  | -0.25    |
| 02 41 19 13-005 | LF | Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut..... | 3.41     |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 1.32     |
|                 |    | For >250, Deduct  | -0.33    |
| 02 41 19 13-006 | LF | Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut.....         | 5.66     |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 2.22     |
|                 |    | For >250, Deduct  | -0.55    |
| 02 41 19 13-007 | LF | Plain Concrete Walls Up To 4" Depth, Saw Cut.....                 | 10.90    |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 4.32     |
|                 |    | For >250, Deduct  | -1.08    |
| 02 41 19 13-008 | LF | Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....         | 14.65    |
|                 |    | For Each Additional Pass (Depth To 3"), Add                       | 5.81     |
|                 |    | For >250, Deduct  | -1.45    |
| 02 41 19 13-009 | EA | Saw Cut Minimum Charge.....                                       | 1,076.29 |

Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

##### 02 41 19 13-010 Torch Cutting <sup>(02 41 19 13)</sup>

Note: Includes grinding edge

|                 |    |   |          |
|-----------------|----|---|----------|
| 02 41 19 13-011 | LF | Up To 1/2", Torch Cut Steel Plate.....          | 3.13     |
| 02 41 19 13-012 | LF | >1/2" To 1" Thick, Torch Cut Steel Plate.....   | 6.27     |
| 02 41 19 13-013 | LF | >1" To 1-1/2" Thick, Torch Cut Steel Plate..... | 9.41     |
| 02 41 19 13-014 | LF | >1-1/2" To 2" Thick, Torch Cut Steel Plate..... | 12.55    |
| 02 41 19 13-015 | LF | >2" To 2-1/2" Thick, Torch Cut Steel Plate..... | 15.68    |
| 02 41 19 13-016 | LF | >2-1/2" To 3" Thick, Torch Cut Steel Plate..... | 18.82    |
| 02 41 19 13-017 | EA | Torch Cutting Minimum Charge.....               | 1,023.42 |

Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

##### 02 41 19 13-018 Drilling In Existing Materials <sup>(02 41 19 13)</sup>

Note: Includes drill bit wear, water, layout, set-up and clean-up.

##### 02 41 19 13-019 Concrete Core Drilling <sup>(02 41 19 13-0018)</sup>

##### 02 41 19 13-020 Up To 4" Thick Concrete Core Drilling <sup>(02 41 19 13-0019)</sup>

|                  |    |   |       |
|------------------|----|---|-------|
| 02 41 19 13-0021 | EA | Drill 1" Diameter Core In Up To 4" Concrete.....                  | 41.78 |
|                  |    | For Horizontal Cores, Add   | 8.26  |
|                  |    | For Overhead Ceiling Cores (Where Not Accessible From Above), Add | 16.51 |
| 02 41 19 13-0022 | EA | Drill 1-1/2" Diameter Core In Up To 4" Concrete.....              | 46.35 |
|                  |    | For Horizontal Cores, Add   | 9.17  |
|                  |    | For Overhead Ceiling Cores (Where Not Accessible From Above), Add | 18.34 |
| 02 41 19 13-0023 | EA | Drill 2" Diameter Core In Up To 4" Concrete.....                  | 51.46 |
|                  |    | For Horizontal Cores, Add   | 10.19 |
|                  |    | For Overhead Ceiling Cores (Where Not Accessible From Above), Add | 20.38 |
| 02 41 19 13-0024 | EA | Drill 3" Diameter Core In Up To 4" Concrete.....                  | 73.47 |
|                  |    | For Horizontal Cores, Add   | 14.56 |
|                  |    | For Overhead Ceiling Cores (Where Not Accessible From Above), Add | 29.12 |



**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 41 19 13-0025 EA Drill 4" Diameter Core In Up To 4" Concrete.....                 | 98.45                     |                         |
| For Horizontal Cores, Add  | 19.51                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 39.02                     |                         |
| 02 41 19 13-0026 EA Drill 6" Diameter Core In Up To 4" Concrete.....                 | 110.34                    |                         |
| For Horizontal Cores, Add  | 21.84                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 43.68                     |                         |
| 02 41 19 13-0027 EA Drill 8" Diameter Core In Up To 4" Concrete.....                 | 176.28                    |                         |
| For Horizontal Cores, Add  | 34.94                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 69.88                     |                         |
| 02 41 19 13-0028 EA Drill 10" Diameter Core In Up To 4" Concrete.....                | 220.53                    |                         |
| For Horizontal Cores, Add  | 43.68                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 87.35                     |                         |
| 02 41 19 13-0029 EA Drill 12" Diameter Core In Up To 4" Concrete.....                | 257.36                    |                         |
| For Horizontal Cores, Add  | 50.96                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 101.92                    |                         |
| 02 41 19 13-0030 EA Drill 14" Diameter Core In Up To 4" Concrete.....                | 294.20                    |                         |
| For Horizontal Cores, Add  | 58.23                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 116.46                    |                         |
| 02 41 19 13-0031 EA Drill 18" Diameter Core In Up To 4" Concrete.....                | 331.46                    |                         |
| For Horizontal Cores, Add  | 65.51                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 131.01                    |                         |
| <b>02 41 19 13-0032 &gt;4" To 6" Thick Concrete Core Drilling (02 41 19 13-0019)</b> |                           |                         |
| 02 41 19 13-0033 EA Drill 1" Diameter Core In >4" To 6" Concrete.....                | 59.72                     |                         |
| For Horizontal Cores, Add  | 11.79                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 23.58                     |                         |
| 02 41 19 13-0034 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....            | 66.27                     |                         |
| For Horizontal Cores, Add  | 13.10                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 26.20                     |                         |
| 02 41 19 13-0035 EA Drill 2" Diameter Core In >4" To 6" Concrete.....                | 73.55                     |                         |
| For Horizontal Cores, Add  | 14.56                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 29.11                     |                         |
| 02 41 19 13-0036 EA Drill 3" Diameter Core In >4" To 6" Concrete.....                | 88.42                     |                         |
| For Horizontal Cores, Add  | 17.47                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 34.94                     |                         |
| 02 41 19 13-0037 EA Drill 4" Diameter Core In >4" To 6" Concrete.....                | 110.59                    |                         |
| For Horizontal Cores, Add  | 21.84                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 43.68                     |                         |
| 02 41 19 13-0038 EA Drill 6" Diameter Core In >4" To 6" Concrete.....                | 147.33                    |                         |
| For Horizontal Cores, Add  | 29.12                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 58.24                     |                         |
| 02 41 19 13-0039 EA Drill 8" Diameter Core In >4" To 6" Concrete.....                | 220.76                    |                         |
| For Horizontal Cores, Add  | 43.68                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 87.35                     |                         |
| 02 41 19 13-0040 EA Drill 10" Diameter Core In >4" To 6" Concrete.....               | 258.00                    |                         |
| For Horizontal Cores, Add  | 50.96                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 101.92                    |                         |
| 02 41 19 13-0041 EA Drill 12" Diameter Core In >4" To 6" Concrete.....               | 294.99                    |                         |
| For Horizontal Cores, Add  | 58.23                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 116.46                    |                         |
| 02 41 19 13-0042 EA Drill 14" Diameter Core In >4" To 6" Concrete.....               | 332.21                    |                         |
| For Horizontal Cores, Add  | 65.51                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 131.01                    |                         |
| 02 41 19 13-0043 EA Drill 18" Diameter Core In >4" To 6" Concrete.....               | 370.01                    |                         |
| For Horizontal Cores, Add  | 72.79                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 145.58                    |                         |
| <b>02 41 19 13-0044 &gt;6" To 8" Thick Concrete Core Drilling (02 41 19 13-0019)</b> |                           |                         |
| 02 41 19 13-0045 EA Drill 1" Diameter Core In >6" To 8" Concrete.....                | 65.91                     |                         |
| For Horizontal Cores, Add  | 12.97                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 25.94                     |                         |
| 02 41 19 13-0046 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....            | 73.11                     |                         |
| For Horizontal Cores, Add  | 14.41                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 28.82                     |                         |
| 02 41 19 13-0047 EA Drill 2" Diameter Core In >6" To 8" Concrete.....                | 81.12                     |                         |
| For Horizontal Cores, Add  | 16.01                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 32.03                     |                         |
| 02 41 19 13-0048 EA Drill 3" Diameter Core In >6" To 8" Concrete.....                | 96.07                     |                         |
| For Horizontal Cores, Add  | 18.93                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 37.85                     |                         |
| 02 41 19 13-0049 EA Drill 4" Diameter Core In >6" To 8" Concrete.....                | 125.63                    |                         |
| For Horizontal Cores, Add  | 24.75                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 49.50                     |                         |
| 02 41 19 13-0050 EA Drill 6" Diameter Core In >6" To 8" Concrete.....                | 177.05                    |                         |
| For Horizontal Cores, Add  | 34.94                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 69.88                     |                         |
| 02 41 19 13-0051 EA Drill 8" Diameter Core In >6" To 8" Concrete.....                | 294.33                    |                         |
| For Horizontal Cores, Add  | 58.23                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 116.46                    |                         |
| 02 41 19 13-0052 EA Drill 10" Diameter Core In >6" To 8" Concrete.....               | 331.80                    |                         |
| For Horizontal Cores, Add  | 65.51                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                    | 131.01                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 41 19 13-0053 EA Drill 12" Diameter Core In >6" To 8" Concrete.....                 | 369.07                    |                         |
| <i>For Horizontal Cores, Add</i>   | 72.79                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 145.98                    |                         |
| 02 41 19 13-0054 EA Drill 14" Diameter Core In >6" To 8" Concrete.....                 | 406.56                    |                         |
| <i>For Horizontal Cores, Add</i>   | 80.05                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 160.11                    |                         |
| 02 41 19 13-0055 EA Drill 18" Diameter Core In >6" To 8" Concrete.....                 | 444.94                    |                         |
| <i>For Horizontal Cores, Add</i>   | 87.35                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 174.70                    |                         |
| <b>02 41 19 13-0056 &gt;8" To 10" Thick Concrete Core Drilling</b> (02 41 19 13-0019)  |                           |                         |
| 02 41 19 13-0057 EA Drill 1" Diameter Core In >8" To 10" Concrete.....                 | 77.97                     |                         |
| <i>For Horizontal Cores, Add</i>   | 15.33                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 30.66                     |                         |
| 02 41 19 13-0058 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....             | 86.49                     |                         |
| <i>For Horizontal Cores, Add</i>   | 17.03                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 34.07                     |                         |
| 02 41 19 13-0059 EA Drill 2" Diameter Core In >8" To 10" Concrete.....                 | 95.94                     |                         |
| <i>For Horizontal Cores, Add</i>   | 18.92                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 37.85                     |                         |
| 02 41 19 13-0060 EA Drill 3" Diameter Core In >8" To 10" Concrete.....                 | 111.01                    |                         |
| <i>For Horizontal Cores, Add</i>   | 21.84                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 43.68                     |                         |
| 02 41 19 13-0061 EA Drill 4" Diameter Core In >8" To 10" Concrete.....                 | 126.12                    |                         |
| <i>For Horizontal Cores, Add</i>   | 24.75                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 49.50                     |                         |
| 02 41 19 13-0062 EA Drill 6" Diameter Core In >8" To 10" Concrete.....                 | 177.64                    |                         |
| <i>For Horizontal Cores, Add</i>   | 34.94                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 69.88                     |                         |
| 02 41 19 13-0063 EA Drill 8" Diameter Core In >8" To 10" Concrete.....                 | 295.14                    |                         |
| <i>For Horizontal Cores, Add</i>   | 58.23                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 116.46                    |                         |
| 02 41 19 13-0064 EA Drill 10" Diameter Core In >8" To 10" Concrete.....                | 332.86                    |                         |
| <i>For Horizontal Cores, Add</i>   | 65.51                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 131.01                    |                         |
| 02 41 19 13-0065 EA Drill 12" Diameter Core In >8" To 10" Concrete.....                | 370.27                    |                         |
| <i>For Horizontal Cores, Add</i>   | 72.77                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 145.55                    |                         |
| 02 41 19 13-0066 EA Drill 14" Diameter Core In >8" To 10" Concrete.....                | 408.17                    |                         |
| <i>For Horizontal Cores, Add</i>   | 80.05                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 160.11                    |                         |
| 02 41 19 13-0067 EA Drill 18" Diameter Core In >8" To 10" Concrete.....                | 446.96                    |                         |
| <i>For Horizontal Cores, Add</i>   | 87.33                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 174.66                    |                         |
| <b>02 41 19 13-0068 &gt;10" To 12" Thick Concrete Core Drilling</b> (02 41 19 13-0019) |                           |                         |
| 02 41 19 13-0069 EA Drill 1" Diameter Core In >10" To 12" Concrete.....                | 84.15                     |                         |
| <i>For Horizontal Cores, Add</i>   | 16.51                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 33.02                     |                         |
| 02 41 19 13-0070 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....            | 93.32                     |                         |
| <i>For Horizontal Cores, Add</i>   | 18.34                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 36.69                     |                         |
| 02 41 19 13-0071 EA Drill 2" Diameter Core In >10" To 12" Concrete.....                | 103.51                    |                         |
| <i>For Horizontal Cores, Add</i>   | 20.38                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 40.76                     |                         |
| 02 41 19 13-0072 EA Drill 3" Diameter Core In >10" To 12" Concrete.....                | 111.40                    |                         |
| <i>For Horizontal Cores, Add</i>   | 21.84                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 43.68                     |                         |
| 02 41 19 13-0073 EA Drill 4" Diameter Core In >10" To 12" Concrete.....                | 148.46                    |                         |
| <i>For Horizontal Cores, Add</i>   | 29.12                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 58.24                     |                         |
| 02 41 19 13-0074 EA Drill 6" Diameter Core In >10" To 12" Concrete.....                | 192.80                    |                         |
| <i>For Horizontal Cores, Add</i>   | 37.85                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 75.71                     |                         |
| 02 41 19 13-0075 EA Drill 8" Diameter Core In >10" To 12" Concrete.....                | 310.52                    |                         |
| <i>For Horizontal Cores, Add</i>   | 61.14                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 122.29                    |                         |
| 02 41 19 13-0076 EA Drill 10" Diameter Core In >10" To 12" Concrete.....               | 333.93                    |                         |
| <i>For Horizontal Cores, Add</i>   | 65.51                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 131.01                    |                         |
| 02 41 19 13-0077 EA Drill 12" Diameter Core In >10" To 12" Concrete.....               | 386.21                    |                         |
| <i>For Horizontal Cores, Add</i>   | 75.71                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 151.42                    |                         |
| <b>02 41 19 13-0078 &gt;12" Thick Concrete Core Drilling</b> (02 41 19 13-0019)        |                           |                         |
| 02 41 19 13-0079 IN Drill 1" Diameter Core In >12" Concrete.....                       | 10.22                     |                         |
| <i>For Horizontal Cores, Add</i>   | 2.02                      |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 4.04                      |                         |
| 02 41 19 13-0080 IN Drill 1-1/2" Diameter Core In >12" Concrete.....                   | 11.35                     |                         |
| <i>For Horizontal Cores, Add</i>   | 2.24                      |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>               | 4.49                      |                         |

|              |  |
|--------------|--|
| <b>02</b>    | <b>Existing Conditions</b>             |
| <b>02 40</b> | <b>Demolition and Structure Moving</b> |
| <b>02 41</b> | <b>Demolition</b>                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 41 19 13-0081 IN Drill 2" Diameter Core In >12" Concrete .....                                | 12.59                     |                         |
| For Horizontal Cores, Add  | 2.49                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 4.98                      |                         |
| 02 41 19 13-0082 IN Drill 3" Diameter Core In >12" Concrete .....                                | 13.82                     |                         |
| For Horizontal Cores, Add  | 2.73                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 5.46                      |                         |
| 02 41 19 13-0083 IN Drill 4" Diameter Core In >12" Concrete .....                                | 18.43                     |                         |
| For Horizontal Cores, Add  | 3.64                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 7.28                      |                         |
| 02 41 19 13-0084 IN Drill 6" Diameter Core In >12" Concrete .....                                | 23.96                     |                         |
| For Horizontal Cores, Add  | 4.73                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 9.47                      |                         |
| 02 41 19 13-0085 IN Drill 8" Diameter Core In >12" Concrete .....                                | 38.65                     |                         |
| For Horizontal Cores, Add  | 7.65                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 15.30                     |                         |
| 02 41 19 13-0086 IN Drill 10" Diameter Core In >12" Concrete .....                               | 41.65                     |                         |
| For Horizontal Cores, Add  | 8.22                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 16.45                     |                         |
| 02 41 19 13-0087 IN Drill 12" Diameter Core In >12" Concrete .....                               | 47.98                     |                         |
| For Horizontal Cores, Add  | 9.47                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 18.94                     |                         |
| <b>02 41 19 13-0088 Brick/Concrete Block Core Drilling (02 41 19 13-0018)</b>                    |                           |                         |
| <b>02 41 19 13-0089 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)</b>     |                           |                         |
| 02 41 19 13-0090 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block .....                | 33.52                     |                         |
| For Horizontal Cores, Add  | 6.60                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 13.21                     |                         |
| 02 41 19 13-0091 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block .....            | 37.18                     |                         |
| For Horizontal Cores, Add  | 7.34                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 14.67                     |                         |
| 02 41 19 13-0092 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block .....                | 41.26                     |                         |
| For Horizontal Cores, Add  | 8.15                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 16.30                     |                         |
| 02 41 19 13-0093 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block .....                | 58.91                     |                         |
| For Horizontal Cores, Add  | 11.65                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 23.29                     |                         |
| 02 41 19 13-0094 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block .....                | 78.94                     |                         |
| For Horizontal Cores, Add  | 15.61                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 31.21                     |                         |
| 02 41 19 13-0095 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block .....                | 88.51                     |                         |
| For Horizontal Cores, Add  | 17.47                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 34.94                     |                         |
| 02 41 19 13-0096 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block .....                | 141.33                    |                         |
| For Horizontal Cores, Add  | 27.95                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 55.90                     |                         |
| 02 41 19 13-0097 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block .....               | 176.85                    |                         |
| For Horizontal Cores, Add  | 34.94                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 69.88                     |                         |
| 02 41 19 13-0098 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block .....               | 206.40                    |                         |
| For Horizontal Cores, Add  | 40.77                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 81.53                     |                         |
| 02 41 19 13-0099 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block .....               | 235.98                    |                         |
| For Horizontal Cores, Add  | 46.58                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 93.17                     |                         |
| 02 41 19 13-0100 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block .....               | 265.95                    |                         |
| For Horizontal Cores, Add  | 52.40                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 104.81                    |                         |
| <b>02 41 19 13-0101 &gt;4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)</b> |                           |                         |
| 02 41 19 13-0102 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 47.93                     |                         |
| For Horizontal Cores, Add  | 9.43                      |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 18.86                     |                         |
| 02 41 19 13-0103 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block .....           | 53.17                     |                         |
| For Horizontal Cores, Add  | 10.48                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 20.96                     |                         |
| 02 41 19 13-0104 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 58.99                     |                         |
| For Horizontal Cores, Add  | 11.64                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 23.29                     |                         |
| 02 41 19 13-0105 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 70.94                     |                         |
| For Horizontal Cores, Add  | 13.98                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 27.95                     |                         |
| 02 41 19 13-0106 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 88.76                     |                         |
| For Horizontal Cores, Add  | 17.47                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 34.94                     |                         |
| 02 41 19 13-0107 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 118.21                    |                         |
| For Horizontal Cores, Add  | 23.29                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 46.59                     |                         |
| 02 41 19 13-0108 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 177.08                    |                         |
| For Horizontal Cores, Add  | 34.94                     |                         |
| For Overhead Ceiling Cores (Where Not Accessible From Above), Add                                | 69.88                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 41 19 13-0109 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 207.04                    |                         |
| <i>For Horizontal Cores, Add</i>  | 40.77                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 81.53                     |                         |
| 02 41 19 13-0110 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 236.77                    |                         |
| <i>For Horizontal Cores, Add</i>  | 46.58                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 93.17                     |                         |
| 02 41 19 13-0111 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 266.70                    |                         |
| <i>For Horizontal Cores, Add</i>  | 52.40                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 104.81                    |                         |
| 02 41 19 13-0112 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block .....               | 297.22                    |                         |
| <i>For Horizontal Cores, Add</i>  | 58.23                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 116.46                    |                         |
| <b>02 41 19 13-0113 &gt;6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)</b>  |                           |                         |
| 02 41 19 13-0114 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block .....                | 52.93                     |                         |
| <i>For Horizontal Cores, Add</i>  | 10.38                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 20.75                     |                         |
| 02 41 19 13-0115 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block .....            | 58.70                     |                         |
| <i>For Horizontal Cores, Add</i>  | 11.53                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 23.06                     |                         |
| 02 41 19 13-0116 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block .....                | 65.11                     |                         |
| <i>For Horizontal Cores, Add</i>  | 12.81                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 25.62                     |                         |
| 02 41 19 13-0117 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block .....                | 77.14                     |                         |
| <i>For Horizontal Cores, Add</i>  | 15.14                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 30.28                     |                         |
| 02 41 19 13-0118 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block .....                | 100.89                    |                         |
| <i>For Horizontal Cores, Add</i>  | 19.80                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 39.60                     |                         |
| 02 41 19 13-0119 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block .....                | 142.10                    |                         |
| <i>For Horizontal Cores, Add</i>  | 27.95                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 55.90                     |                         |
| 02 41 19 13-0120 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block .....                | 236.11                    |                         |
| <i>For Horizontal Cores, Add</i>  | 46.58                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 93.17                     |                         |
| 02 41 19 13-0121 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block .....               | 266.29                    |                         |
| <i>For Horizontal Cores, Add</i>  | 52.40                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 104.81                    |                         |
| 02 41 19 13-0122 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block .....               | 296.28                    |                         |
| <i>For Horizontal Cores, Add</i>  | 58.23                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 116.46                    |                         |
| 02 41 19 13-0123 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block .....               | 326.51                    |                         |
| <i>For Horizontal Cores, Add</i>  | 64.04                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 128.09                    |                         |
| 02 41 19 13-0124 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block .....               | 357.58                    |                         |
| <i>For Horizontal Cores, Add</i>  | 69.88                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 139.76                    |                         |
| <b>02 41 19 13-0125 &gt;8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)</b> |                           |                         |
| 02 41 19 13-0126 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block .....               | 62.64                     |                         |
| <i>For Horizontal Cores, Add</i>  | 12.26                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 24.53                     |                         |
| 02 41 19 13-0127 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block .....           | 69.45                     |                         |
| <i>For Horizontal Cores, Add</i>  | 13.63                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 27.25                     |                         |
| 02 41 19 13-0128 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block .....               | 77.02                     |                         |
| <i>For Horizontal Cores, Add</i>  | 15.14                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 30.28                     |                         |
| 02 41 19 13-0129 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block .....               | 89.18                     |                         |
| <i>For Horizontal Cores, Add</i>  | 17.47                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 34.94                     |                         |
| 02 41 19 13-0130 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block .....               | 101.38                    |                         |
| <i>For Horizontal Cores, Add</i>  | 19.80                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 39.60                     |                         |
| 02 41 19 13-0131 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block .....               | 142.69                    |                         |
| <i>For Horizontal Cores, Add</i>  | 27.95                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 55.90                     |                         |
| 02 41 19 13-0132 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block .....               | 236.92                    |                         |
| <i>For Horizontal Cores, Add</i>  | 46.58                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 93.17                     |                         |
| 02 41 19 13-0133 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block .....              | 267.35                    |                         |
| <i>For Horizontal Cores, Add</i>  | 52.40                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 104.81                    |                         |
| 02 41 19 13-0134 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block .....              | 297.51                    |                         |
| <i>For Horizontal Cores, Add</i>  | 58.22                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 116.44                    |                         |
| 02 41 19 13-0135 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block .....              | 328.12                    |                         |
| <i>For Horizontal Cores, Add</i>  | 64.04                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 128.09                    |                         |
| 02 41 19 13-0136 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block .....              | 359.63                    |                         |
| <i>For Horizontal Cores, Add</i>  | 69.86                     |                         |
| <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>                          | 139.73                    |                         |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                         |    |   |        |
|-------------------------|----|---|--------|
| <b>02 41 19 13-0137</b> |    | <b>&gt;10" To 12" Thick Brick/Concrete Block Core Drilling</b> (02 41 19 13-0088) |        |
| 02 41 19 13-0138        | EA | Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block                        | 67.64  |
|                         |    | <i>For Horizontal Cores, Add</i>  | 13.21  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 26.42  |
| 02 41 19 13-0139        | EA | Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block                    | 74.98  |
|                         |    | <i>For Horizontal Cores, Add</i>  | 14.68  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 29.35  |
| 02 41 19 13-0140        | EA | Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block                        | 83.13  |
|                         |    | <i>For Horizontal Cores, Add</i>  | 16.31  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 32.61  |
| 02 41 19 13-0141        | EA | Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block                        | 89.57  |
|                         |    | <i>For Horizontal Cores, Add</i>  | 17.47  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 34.94  |
| 02 41 19 13-0142        | EA | Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block                        | 119.34 |
|                         |    | <i>For Horizontal Cores, Add</i>  | 23.29  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 46.59  |
| 02 41 19 13-0143        | EA | Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block                        | 154.95 |
|                         |    | <i>For Horizontal Cores, Add</i>  | 30.28  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 60.57  |
| 02 41 19 13-0144        | EA | Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block                        | 249.38 |
|                         |    | <i>For Horizontal Cores, Add</i>  | 48.92  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 97.83  |
| 02 41 19 13-0145        | EA | Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block                       | 268.42 |
|                         |    | <i>For Horizontal Cores, Add</i>  | 52.40  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 104.81 |
| 02 41 19 13-0146        | EA | Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block                       | 310.51 |
|                         |    | <i>For Horizontal Cores, Add</i>  | 60.57  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>          | 121.14 |

|                         |    |  |       |
|-------------------------|----|--|-------|
| <b>02 41 19 13-0147</b> |    | <b>&gt;12" Thick Brick/Concrete Block Core Drilling</b> (02 41 19 13-0088) |       |
| 02 41 19 13-0148        | IN | Drill 1" Diameter Core In >12" Brick/Concrete Block                        | 8.21  |
|                         |    | <i>For Horizontal Cores, Add</i>   | 1.62  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 3.23  |
| 02 41 19 13-0149        | IN | Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block                    | 9.10  |
|                         |    | <i>For Horizontal Cores, Add</i>   | 1.79  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 3.59  |
| 02 41 19 13-0150        | IN | Drill 2" Diameter Core In >12" Brick/Concrete Block                        | 10.10 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 1.99  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 3.99  |
| 02 41 19 13-0151        | IN | Drill 3" Diameter Core In >12" Brick/Concrete Block                        | 11.10 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 2.18  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 4.37  |
| 02 41 19 13-0152        | IN | Drill 4" Diameter Core In >12" Brick/Concrete Block                        | 14.79 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 2.91  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 5.82  |
| 02 41 19 13-0153        | IN | Drill 6" Diameter Core In >12" Brick/Concrete Block                        | 19.22 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 3.79  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 7.57  |
| 02 41 19 13-0154        | IN | Drill 8" Diameter Core In >12" Brick/Concrete Block                        | 31.00 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 6.12  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 12.24 |
| 02 41 19 13-0155        | IN | Drill 10" Diameter Core In >12" Brick/Concrete Block                       | 33.42 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 6.58  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 13.16 |
| 02 41 19 13-0156        | IN | Drill 12" Diameter Core In >12" Brick/Concrete Block                       | 38.52 |
|                         |    | <i>For Horizontal Cores, Add</i>   | 7.58  |
|                         |    | <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>   | 15.15 |

|                         |    |  |      |
|-------------------------|----|--|------|
| <b>02 41 19 13-0157</b> |    | <b>Drilling In Concrete Per Inch Of Depth</b> (02 41 19 13-0018) |      |
| Note: Includes layout.  |    |  |      |
| 02 41 19 13-0158        | IN | 1/4" Diameter Drilling In Concrete Per Inch Of Depth             | 2.05 |
| 02 41 19 13-0159        | IN | 5/16" Diameter Drilling In Concrete Per Inch Of Depth            | 2.16 |
| 02 41 19 13-0160        | IN | 3/8" Diameter Drilling In Concrete Per Inch Of Depth             | 2.28 |
| 02 41 19 13-0161        | IN | 1/2" Diameter Drilling In Concrete Per Inch Of Depth             | 2.45 |
| 02 41 19 13-0162        | IN | 5/8" Diameter Drilling In Concrete Per Inch Of Depth             | 2.60 |
| 02 41 19 13-0163        | IN | 3/4" Diameter Drilling In Concrete Per Inch Of Depth             | 2.86 |
| 02 41 19 13-0164        | IN | 7/8" Diameter Drilling In Concrete Per Inch Of Depth             | 3.09 |
| 02 41 19 13-0165        | IN | 1" Diameter Drilling In Concrete Per Inch Of Depth               | 3.25 |
| 02 41 19 13-0166        | IN | 1-1/8" Diameter Drilling In Concrete Per Inch Of Depth           | 3.84 |
| 02 41 19 13-0167        | IN | 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth           | 3.60 |
| 02 41 19 13-0168        | IN | 1-3/8" Diameter Drilling In Concrete Per Inch Of Depth           | 3.84 |
| 02 41 19 13-0169        | IN | 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth           | 4.07 |
| 02 41 19 13-0170        | IN | 1-3/4" Diameter Drilling In Concrete Per Inch Of Depth           | 4.51 |
| 02 41 19 13-0171        | IN | 2" Diameter Drilling In Concrete Per Inch Of Depth               | 5.26 |

|                         |    |  |      |
|-------------------------|----|--|------|
| <b>02 41 19 13-0172</b> |    | <b>Drilling In Brick/Concrete Block Per Inch Of Depth</b> (02 41 19 13-0018) |      |
| Note: Includes layout.  |    |  |      |
| 02 41 19 13-0173        | IN | 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth             | 1.71 |
| 02 41 19 13-0174        | IN | 5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth            | 1.80 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 41 19 13-0175 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 1.90                      |                         |
| 02 41 19 13-0176 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 2.04                      |                         |
| 02 41 19 13-0177 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 2.17                      |                         |
| 02 41 19 13-0178 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 2.39                      |                         |
| 02 41 19 13-0179 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 2.58                      |                         |
| 02 41 19 13-0180 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 2.71                      |                         |
| 02 41 19 13-0181 IN 1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 2.86                      |                         |
| 02 41 19 13-0182 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 3.00                      |                         |
| 02 41 19 13-0183 IN 1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 3.20                      |                         |
| 02 41 19 13-0184 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 3.39                      |                         |
| 02 41 19 13-0185 IN 1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 3.78                      |                         |
| 02 41 19 13-0186 IN 2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....  | 4.38                      |                         |
| <br>  |                           |                         |
| <b>02 41 19 13-0187 Drilling In Wood Or Plastic Per Inch Of Depth</b> (02 41 19 13-0018)  |                           |                         |
| Note: Includes layout.  |                           |                         |
| 02 41 19 13-0188 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 0.84                      |                         |
| 02 41 19 13-0189 IN 5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....   | 0.89                      |                         |
| 02 41 19 13-0190 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 0.95                      |                         |
| 02 41 19 13-0191 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.02                      |                         |
| 02 41 19 13-0192 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.08                      |                         |
| 02 41 19 13-0193 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.19                      |                         |
| 02 41 19 13-0194 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.29                      |                         |
| 02 41 19 13-0195 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.36                      |                         |
| 02 41 19 13-0196 IN 1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.42                      |                         |
| 02 41 19 13-0197 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.49                      |                         |
| 02 41 19 13-0198 IN 1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.59                      |                         |
| 02 41 19 13-0199 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.69                      |                         |
| 02 41 19 13-0200 IN 1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 1.88                      |                         |
| 02 41 19 13-0201 IN 2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....  | 2.19                      |                         |
| <br>  |                           |                         |
| <b>02 41 19 13-0202 Drilling In Drywall Or Plaster Per Inch Of Depth</b> (02 41 19 13-0018)   |                           |                         |
| Note: Includes layout, high efficiency particulate air (HEPA) vacuum and protection.  |                           |                         |
| 02 41 19 13-0203 IN 1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 0.84                      |                         |
| 02 41 19 13-0204 IN 5/16" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....  | 0.89                      |                         |
| 02 41 19 13-0205 IN 3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 0.95                      |                         |
| 02 41 19 13-0206 IN 1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.02                      |                         |
| 02 41 19 13-0207 IN 5/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.08                      |                         |
| 02 41 19 13-0208 IN 3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.19                      |                         |
| 02 41 19 13-0209 IN 7/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.29                      |                         |
| 02 41 19 13-0210 IN 1" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.36                      |                         |
| 02 41 19 13-0211 IN 1-1/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.42                      |                         |
| 02 41 19 13-0212 IN 1-1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.49                      |                         |
| 02 41 19 13-0213 IN 1-3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.59                      |                         |
| 02 41 19 13-0214 IN 1-1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.69                      |                         |
| 02 41 19 13-0215 IN 1-3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 1.88                      |                         |
| 02 41 19 13-0216 IN 2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....   | 2.18                      |                         |
| 02 41 19 13-0217 IN Drill 3" Diameter Core In Wood Or Plastic Per Inch Of Depth.....  | 2.89                      |                         |
| 02 41 19 13-0218 IN Drill 4" Diameter Core In Wood Or Plastic Per Inch Of Depth.....  | 3.65                      |                         |
| 02 41 19 13-0219 IN Drill 5" Diameter Core In Wood Or Plastic Per Inch Of Depth.....  | 4.11                      |                         |
| 02 41 19 13-0220 IN Drill 6" Diameter Core In Wood Or Plastic Per Inch Of Depth.....  | 4.59                      |                         |
| <br>  |                           |                         |
| <b>02 41 19 13-0221 Minimum Charge For Core Drilling</b> (02 41 19 13-0018)   |                           |                         |
| 02 41 19 13-0222 EA Core Drill Minimum Charge .....   | 865.07                    |                         |
| Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth". |                           |                         |
| <br>  |                           |                         |
| <b>02 41 19 13-0223 Cutouts</b> (02 41 19 13)   |                           |                         |
| Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.   |                           |                         |
| <b>02 41 19 13-0224 Reinforced Concrete Slab On Grade Cutouts</b> (02 41 19 13-0223)  |                           |                         |
| 02 41 19 13-0225 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....  | 48.67                     |                         |
| 02 41 19 13-0226 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....  | 51.62                     |                         |
| 02 41 19 13-0227 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....  | 54.56                     |                         |
| 02 41 19 13-0228 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....   | 57.51                     |                         |
| 02 41 19 13-0229 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....   | 58.99                     |                         |
| <br>  |                           |                         |
| <b>02 41 19 13-0230 Reinforced Concrete Elevated Slab Cutouts</b> (02 41 19 13-0223)  |                           |                         |
| Note: Includes cutting and removing steel decking.  |                           |                         |
| 02 41 19 13-0231 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....  | 59.31                     |                         |
| 02 41 19 13-0232 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....  | 62.91                     |                         |
| 02 41 19 13-0233 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....  | 66.51                     |                         |
| 02 41 19 13-0234 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....   | 70.10                     |                         |
| 02 41 19 13-0235 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....   | 71.90                     |                         |

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                         |  |        |  |
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| <b>02 41 19 13-0236</b> | <b>Reinforced Concrete Wall Cutouts</b> (02 41 19 13-0223)   |        |  |
| 02 41 19 13-0237        | SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF .....   | 60.84  |  |
| 02 41 19 13-0238        | SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF .....   | 64.52  |  |
| 02 41 19 13-0239        | SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF .....   | 68.21  |  |
| 02 41 19 13-0240        | SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF .....  | 71.90  |  |
| 02 41 19 13-0241        | SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF .....  | 73.74  |  |
| <b>02 41 19 13-0242</b> | <b>Brick Wall Cutouts</b> (02 41 19 13-0223)   |        |  |
|                         | Note: Excludes toothing.   |        |  |
| 02 41 19 13-0243        | SF 4" Thick Brick Wall Cutouts, <24 SF .....   | 18.43  |  |
| 02 41 19 13-0244        | SF 6" Thick Brick Wall Cutouts, <24 SF .....   | 30.42  |  |
| 02 41 19 13-0245        | SF 8" Thick Brick Wall Cutouts, <24 SF .....   | 42.36  |  |
| 02 41 19 13-0246        | SF 10" Thick Brick Wall Cutouts, <24 SF .....  | 51.62  |  |
| 02 41 19 13-0247        | SF 12" Thick Brick Wall Cutouts, <24 SF .....  | 61.76  |  |
| 02 41 19 13-0248        | SF 16" Thick Brick Wall Cutouts, <24 SF .....  | 72.82  |  |
| <b>02 41 19 13-0249</b> | <b>Concrete Block Wall Cutouts</b> (02 41 19 13-0223)  |        |  |
|                         | Note: Excludes toothing.   |        |  |
| 02 41 19 13-0250        | SF 4" Thick Concrete Block Wall Cutouts, <24 SF .....  | 30.50  |  |
| 02 41 19 13-0251        | SF 6" Thick Concrete Block Wall Cutouts, <24 SF .....  | 32.29  |  |
| 02 41 19 13-0252        | SF 8" Thick Concrete Block Wall Cutouts, <24 SF .....  | 34.10  |  |
| 02 41 19 13-0253        | SF 10" Thick Concrete Block Wall Cutouts, <24 SF .....   | 35.95  |  |
| 02 41 19 13-0254        | SF 12" Thick Concrete Block Wall Cutouts, <24 SF .....   | 36.87  |  |
| 02 41 19 13-0255        | SF 16" Thick Concrete Block Wall Cutouts, <24 SF .....   | 38.71  |  |
| <b>02 41 19 13-0256</b> | <b>Limestone Cutouts</b> (02 41 19 13-0223)  |        |  |
| 02 41 19 13-0257        | SF 2" Thick Limestone Cutouts, <24 SF .....  | 51.62  |  |
| 02 41 19 13-0258        | SF 4" Thick Limestone Cutouts, <24 SF .....  | 62.68  |  |
| 02 41 19 13-0259        | SF 6" Thick Limestone Cutouts, <24 SF .....  | 66.36  |  |
| 02 41 19 13-0260        | SF 8" Thick Limestone Cutouts, <24 SF .....  | 70.05  |  |
| 02 41 19 13-0261        | SF 10" Thick Limestone Cutouts, <24 SF .....   | 73.74  |  |
| 02 41 19 13-0262        | SF 12" Thick Limestone Cutouts, <24 SF .....   | 77.43  |  |
| <b>02 41 19 13-0263</b> | <b>Toothng Masonry Cutouts</b> (02 41 19 13-0223)  |        |  |
|                         | Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.   |        |  |
| 02 41 19 13-0264        | VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts .....   | 18.43  |  |
| 02 41 19 13-0265        | VLF Brick, Hard Mortar, Toothing Masonry Cutouts .....   | 24.89  |  |
| 02 41 19 13-0266        | VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts .....  | 11.06  |  |
| 02 41 19 13-0267        | VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts .....  | 14.75  |  |
| <b>02 41 19 13-0268</b> | <b>Minimum Charge For Cutouts</b> (02 41 19 13-0223)   |        |  |
|                         | Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.                                      |        |  |
| 02 41 19 13-0269        | EA Cutouts Minimum Charge .....  | 368.70 |  |
| <b>02 41 19 13-0270</b> | <b>Exterior Masonry Removal</b> (02 41 19 13)  |        |  |
| <b>02 41 19 13-0271</b> | <b>Masonry Columns Removal (Interior And Exterior)</b> (02 41 19 13-0270)  |        |  |
| 02 41 19 13-0272        | VLF 8" x 8" Masonry Column Removal .....   | 14.19  |  |
| 02 41 19 13-0273        | VLF 10" x 10" Masonry Column Removal .....   | 22.18  |  |
| 02 41 19 13-0274        | VLF 12" x 12" Masonry Column Removal .....   | 28.41  |  |
| 02 41 19 13-0275        | VLF 14" x 14" Masonry Column Removal .....   | 35.57  |  |
| 02 41 19 13-0276        | VLF 16" x 16" Masonry Column Removal .....   | 43.69  |  |
| 02 41 19 13-0277        | CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square .....  | 24.54  |  |
| <b>02 41 19 13-0278</b> | <b>Masonry Chimney Removal</b> (02 41 19 13-0270)  |        |  |
| 02 41 19 13-0279        | CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....   | 28.78  |  |
| 02 41 19 13-0280        | CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....  | 21.60  |  |
| 02 41 19 13-0281        | CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....   | 16.54  |  |
| 02 41 19 13-0282        | CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....   | 11.46  |  |
| <b>02 41 19 13-0283</b> | <b>Remove And Reset Precast, Stone Or Masonry Coping</b> (02 41 19 13-0270)  |        |  |
|                         | Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting. |        |  |
| 02 41 19 13-0284        | LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....  | 20.64  |  |
| 02 41 19 13-0285        | LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....  | 30.61  |  |
| 02 41 19 13-0286        | LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....   | 58.01  |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>02 41 19 13-0287 Facade Removal</b> <small>(02 41 19 13-0270)</small>  |                           |                         |
| <small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>  |                           |                         |
| 02 41 19 13-0288 SF Stone Or Brick Veneer Facade Removal.....   | 5.40                      | 8.10                    |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
| <b>02 41 19 13-0289 Exterior Masonry Removal</b> <small>(02 41 19 13-0270)</small>  |                           |                         |
| <small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small> |                           |                         |
| 02 41 19 13-0290 SF Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall .....   | 4.75                      |                         |
| 02 41 19 13-0291 SF Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall .....   | 5.36                      |                         |
| 02 41 19 13-0292 SF Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall .....   | 6.48                      |                         |
| 02 41 19 13-0293 SF Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall .....  | 7.09                      |                         |
| 02 41 19 13-0294 SF Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall .....  | 7.78                      |                         |
| 02 41 19 13-0295 SF Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall .....  | 9.73                      |                         |
| 02 41 19 13-0296 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall .....   | 5.61                      |                         |
| 02 41 19 13-0297 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall .....   | 6.43                      |                         |
| 02 41 19 13-0298 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall .....   | 7.78                      |                         |
| 02 41 19 13-0299 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall .....  | 8.50                      |                         |
| 02 41 19 13-0300 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall .....  | 9.34                      |                         |
| 02 41 19 13-0301 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall .....  | 11.68                     |                         |
| 02 41 19 13-0302 SF Demolish 4" Thick Brick Exterior Wall.....  | 4.75                      |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 7.13                      |                         |
| 02 41 19 13-0303 SF Demolish 6" Thick Brick Exterior Wall .....   | 5.36                      |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 8.04                      |                         |
| 02 41 19 13-0304 SF Demolish 8" Thick Brick Exterior Wall .....   | 6.48                      |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 9.72                      |                         |
| 02 41 19 13-0305 SF Demolish 10" Thick Brick Exterior Wall.....   | 7.09                      |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 10.64                     |                         |
| 02 41 19 13-0306 SF Demolish 12" Thick Brick Exterior Wall.....   | 7.78                      |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 11.67                     |                         |
| 02 41 19 13-0307 SF Demolish 16" Thick Brick Exterior Wall.....   | 9.73                      |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 14.60                     |                         |
| 02 41 19 13-0308 CF Exterior Brick, Concrete Block Or Composite Removal.....  | 13.83                     |                         |
| <i>For Cleaning and Storage For Reuse, Add</i>  |                           |                         |
|   | 20.75                     |                         |
| <b>02 41 19 13-0309 Lintel Removal</b> <small>(02 41 19 13-0270)</small>  |                           |                         |
| <small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>  |                           |                         |
| 02 41 19 13-0310 LF Demolish Steel Lintel.....  | 13.71                     |                         |
| 02 41 19 13-0311 LF Demolish Concrete Or Stone Lintel .....   | 18.28                     |                         |
| 02 41 19 13-0312 LF Demolish Steel Shelf Angle .....  | 14.47                     |                         |
| <b>02 41 19 13-0313 Reinstall Lintel</b> <small>(02 41 19 13-0270)</small>  |                           |                         |
| <small>Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>   |                           |                         |
| 02 41 19 13-0314 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel.....   | 8.58                      |                         |
| 02 41 19 13-0315 LF Reinstall Existing Concrete Or Stone Lintel .....   | 18.28                     |                         |
| 02 41 19 13-0316 LF Reinstall Existing Steel Shelf Angle .....  | 51.99                     |                         |
| <small>Note: Includes fasteners.</small>  |                           |                         |
| 02 41 19 13-0317 LF Reinstall Existing Steel Lintel.....  | 20.31                     |                         |
| 02 41 19 13-0318 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls .....   | 87.56                     |                         |
| 02 41 19 13-0319 LF Removal And Replacement Of Steel Lintel Over Window Openings.....   | 167.53                    |                         |
| <b>02 41 19 13-0320 Exterior Concrete Wall Removal</b> <small>(02 41 19 13)</small>   |                           |                         |
| 02 41 19 13-0321 SF Demolish 4" Thick Reinforced Concrete Exterior Wall .....   | 6.50                      |                         |
| 02 41 19 13-0322 SF Demolish 6" Thick Reinforced Concrete Exterior Wall .....   | 11.79                     |                         |
| 02 41 19 13-0323 SF Demolish 8" Thick Reinforced Concrete Exterior Wall .....   | 14.81                     |                         |
| 02 41 19 13-0324 SF Demolish 10" Thick Reinforced Concrete Exterior Wall .....  | 17.47                     |                         |
| 02 41 19 13-0325 SF Demolish 12" Thick Reinforced Concrete Exterior Wall.....   | 20.66                     |                         |
| <b>02 41 19 13-0326 Elevated Concrete Removal</b> <small>(02 41 19 13)</small>  |                           |                         |
| 02 41 19 13-0327 CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced .....   | 12.35                     |                         |
| <b>02 41 19 16 Selective Interior Demolition</b> <small>(02 41 19)</small>  |                           |                         |
| <small>Note: Includes break-up of material, loading into truck or dumpster and clean-up.</small>  |                           |                         |
| 02 41 19 16-0001 Floor Removal <small>(02 41 19 16)</small>   |                           |                         |
| 02 41 19 16-0002 Scarify Concrete <small>(02 41 19 16-0001)</small>   |                           |                         |
| <small>Note: Up to 1/4" removal per pass.</small>   |                           |                         |
| 02 41 19 16-0003 SF Scarify Concrete Floor.....   | 0.31                      |                         |



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| <b>02</b>    | <b>Existing Conditions</b>             |
| <b>02 40</b> | <b>Demolition and Structure Moving</b> |
| <b>02 41</b> | <b>Demolition</b>                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 41 19 16-0004 SF Scarify Concrete Tread And Riser .....  | 2.58                      |                         |
| 02 41 19 16-0005 SF Scarify Concrete Wall .....   | 2.34                      |                         |
| <b>02 41 19 16-0006 Fireproofing Removal (02 41 19 16)</b>  |                           |                         |
| 02 41 19 16-0007 SF Removal Of Fireproofing From Concrete Or Steel.....   | 1.20                      |                         |
| <b>02 41 19 16-0008 Demolish Ceiling (02 41 19 16)</b>  |                           |                         |
| 02 41 19 16-0009 SF Demolish Drywall Ceiling .....  | 0.92                      |                         |
| 02 41 19 16-0010 SF Demolish Furred Plastered Ceiling .....   | 2.16                      |                         |
| 02 41 19 16-0011 SF Demolish Suspended Plastered Ceiling And Suspension System.....                               | 1.66                      |                         |
| <b>02 41 19 16-0012 Demolish Concrete Stair (02 41 19 16)</b>   |                           |                         |
| 02 41 19 16-0013 CF Demolish Interior Reinforced Concrete Stairs.....   | 7.78                      |                         |
| 02 41 19 16-0014 CF Demolish Exterior Reinforced Concrete Stairs.....   | 6.78                      |                         |
| <b>02 41 19 16-0015 Demolish Interior Partition/Wall (02 41 19 16)</b>  |                           |                         |
| Note: Price includes knock down, loading, clean-up.   |                           |                         |
| <b>02 41 19 16-0016 Demolish Masonry And Concrete Interior Partition/Walls (02 41 19 16-0015)</b>                 |                           |                         |
| Note: Includes saw cutting, knock down, loading and clean-up.   |                           |                         |
| <b>02 41 19 16-0017 Demolish Concrete Block Interior Partition/Walls (02 41 19 16-0016)</b>                       |                           |                         |
| 02 41 19 16-0018 SF Demolish 4" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....                  | 5.04                      |                         |
| 02 41 19 16-0019 SF Demolish 6" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....                  | 5.38                      |                         |
| 02 41 19 16-0020 SF Demolish 8" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....                  | 6.07                      |                         |
| 02 41 19 16-0021 SF Demolish 12" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....                 | 7.78                      |                         |
| 02 41 19 16-0022 SF Demolish 16" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....                 | 9.74                      |                         |
| 02 41 19 16-0023 SF Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall .....                     | 6.05                      |                         |
| 02 41 19 16-0024 SF Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall .....                     | 6.46                      |                         |
| 02 41 19 16-0025 SF Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall .....                     | 7.28                      |                         |
| 02 41 19 16-0026 SF Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall .....                    | 9.35                      |                         |
| 02 41 19 16-0027 SF Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall .....                    | 11.68                     |                         |
| <b>02 41 19 16-0028 Demolish Brick Interior Partition/Walls (02 41 19 16-0016)</b>                                |                           |                         |
| 02 41 19 16-0029 SF Demolish 4" Thick Brick Interior Partition/Wall.....  | 5.04                      |                         |
| 02 41 19 16-0030 SF Demolish 8" Thick Brick Interior Partition/Wall .....   | 6.07                      |                         |
| 02 41 19 16-0031 SF Demolish 12" Thick Brick Interior Partition/Wall.....   | 7.77                      |                         |
| 02 41 19 16-0032 SF Demolish 16" Thick Brick Interior Partition/Wall.....   | 9.73                      |                         |
| <b>02 41 19 16-0033 Demolish Glass Block Interior Partition/Walls (02 41 19 16-0016)</b>                          |                           |                         |
| 02 41 19 16-0034 SF Demolish Glass Block Interior Partition/Walls .....   | 4.32                      |                         |
| <b>02 41 19 16-0035 Demolish Concrete Interior Partition/Walls (02 41 19 16-0016)</b>                             |                           |                         |
| 02 41 19 16-0036 SF Demolish 6" Thick Non-Reinforced Concrete Interior Partition/Wall .....                       | 9.16                      |                         |
| 02 41 19 16-0037 SF Demolish 8" Thick Non-Reinforced Concrete Interior Partition/Wall .....                       | 11.46                     |                         |
| 02 41 19 16-0038 SF Demolish 12" Thick Non-Reinforced Concrete Interior Partition/Wall .....                      | 16.03                     |                         |
| 02 41 19 16-0039 SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall .....                           | 10.99                     |                         |
| 02 41 19 16-0040 SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall .....                           | 13.83                     |                         |
| 02 41 19 16-0041 SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall .....                          | 19.24                     |                         |
| <b>02 41 19 16-0042 Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0016)</b>                    |                           |                         |
| 02 41 19 16-0043 SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster ..... | 1.73                      |                         |
| <b>02 41 19 16-0044 Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0015)</b>                          |                           |                         |
| Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.                         |                           |                         |
| 02 41 19 16-0045 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side .....               | 3.05                      |                         |
| For Heights >14' To 20', Add  | 0.46                      |                         |
| For Heights >20', Add   | 0.61                      |                         |
| 02 41 19 16-0046 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....               | 3.57                      |                         |
| For Heights >14' To 20', Add  | 0.54                      |                         |
| For Heights >20', Add   | 0.71                      |                         |
| 02 41 19 16-0047 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....       | 3.90                      |                         |
| For Heights >14' To 20', Add  | 0.59                      |                         |
| For Heights >20', Add   | 0.78                      |                         |
| 02 41 19 16-0048 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....      | 5.42                      |                         |
| For Heights >14' To 20', Add  | 0.81                      |                         |
| For Heights >20', Add   | 1.08                      |                         |
| 02 41 19 16-0049 SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....                      | 1.61                      |                         |
| For Heights >14' To 20', Add  | 0.24                      |                         |
| For Heights >20', Add   | 0.32                      |                         |



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|  |  | <b>Existing Conditions</b>             | <b>02</b>    |
|  |  | <b>Demolition and Structure Moving</b> | <b>02 40</b> |
|  |  | Demolition                             | 02 41        |

02

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|       |    |         |   |                      |  |
|-------|----|---------|---|----------------------|--|
| 02 41 | 19 | 16-0050 | SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....<br><i>For Heights &gt;14' To 20', Add</i><br><i>For Heights &gt;20', Add</i> | 1.92<br>0.29<br>0.38 |  |
|-------|----|---------|---|----------------------|--|

**02 42 Removal and Salvage of Construction Materials** (02 40)

**02 42 21 Salvage of Construction Materials** (02 42)

Note: Includes placement on pallets and storage on site.

**02 42 21 35 Roofing Salvage** (02 42 21)

**02 42 21 35-0001 Clay Tile Roofing Remove And Salvage For Re-use** (02 42 21 35)

Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.

|                  |    |  |        |
|------------------|----|--|--------|
| 02 42 21 35-0002 | SQ | Removal Of Clay Roof Tile, Salvage For Re-use..... | 280.96 |
|------------------|----|--|--------|

**02 42 21 47 Flooring Salvage** (02 42 21)

**02 42 21 47-0001 Flooring Remove And Salvage For Re-Use** (02 42 21 47)

Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.

|                  |    |  |      |
|------------------|----|--|------|
| 02 42 21 47-0002 | SF | Removal Of Brick Flooring And Salvage.....               | 2.56 |
| 02 42 21 47-0003 | SF | Removal Of Ceramic/Quarry Tile Floor And Salvage .....   | 2.56 |
| 02 42 21 47-0004 | SF | Removal Of Terrazzo Flooring And Salvage .....           | 3.53 |
| 02 42 21 47-0005 | SF | Removal Of Wood Strip Flooring And Salvage .....         | 2.07 |
| 02 42 21 47-0006 | SF | Removal Of Wood Parquet Flooring And Salvage.....        | 1.09 |
| 02 42 21 47-0007 | SF | Removal Of Resilient/Linoleum Flooring And Salvage ..... | 0.78 |

**02 60 Contaminated Site Material Removal** (02)

**02 61 Removal and Disposal of Contaminated Soils** (02 60)

**02 61 26 Removal and Disposal of Asbestos Contaminated Soils** (02 61)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

**02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils** (02 61 26)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

|                  |    |   |                    |
|------------------|----|---|--------------------|
| 02 61 26 00-0002 | EA | Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>         | 1,118.47<br>335.54 |
| 02 61 26 00-0003 | CF | >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>       | 74.14<br>22.24     |
| 02 61 26 00-0004 | CF | >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>      | 49.43<br>14.83     |
| 02 61 26 00-0005 | CF | >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>      | 37.13<br>11.14     |
| 02 61 26 00-0006 | CF | >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>    | 29.66<br>8.90      |
| 02 61 26 00-0007 | CF | >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i> | 25.21<br>7.56      |
| 02 61 26 00-0008 | CF | >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>          | 22.68<br>6.80      |

**02 80 Facility Remediation** (02)

**02 81 Transportation and Disposal of Hazardous Materials** (02 80)

**02 81 00 00-0001 Equipment Oil Drain And Disposal** (02 81)

|                  |      |  |        |
|------------------|------|--|--------|
| 02 81 00 00-0002 | TRIP | Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....<br>Note: Excludes Disposal Cost.   | 653.45 |
| 02 81 00 00-0003 | DRM  | Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....<br>Note: Excludes draining, placing in approved container, and transporting to disposal site.                     | 102.68 |
| 02 81 00 00-0004 | DRM  | Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....<br>Note: Excludes draining, placing in approved container, and transporting to disposal site.            | 466.75 |
| 02 81 00 00-0005 | DRM  | Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum.....<br>Note: Excludes draining, placing in approved container, and transporting to disposal site.                      | 840.15 |
| 02 81 00 00-0006 | CF   | Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site.....<br>Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal. | 112.07 |

**02 Existing Conditions****02 80 Facility Remediation****02 81 Transportation and Disposal of Hazardous Materials**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**02 82 Asbestos Remediation** (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 82 13 Asbestos Abatement** (02 82)**02 82 13 00-0001****Air Monitoring And Bulk Sampling, Asbestos Testing** (02 82 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

|                  |    |   |        |
|------------------|----|---|--------|
| 02 82 13 00-0002 | HR | Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring .....  | 89.94  |
| 02 82 13 00-0003 | EA | 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing ..... | 60.79  |
| 02 82 13 00-0004 | EA | Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....           | 71.27  |
| 02 82 13 00-0005 | EA | Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....           | 113.20 |
| 02 82 13 00-0006 | EA | 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing .....                | 194.96 |
| 02 82 13 00-0007 | EA | Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing .....                          | 236.88 |
| 02 82 13 00-0008 | EA | 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing .....                 | 48.21  |
| 02 82 13 00-0009 | EA | Next Day Turnaround, (Air) PCM Test, Asbestos Testing .....                           | 58.70  |
| 02 82 13 00-0010 | EA | Same Day Turnaround, (Air) PCM Test, Asbestos Testing .....                           | 79.66  |
| 02 82 13 00-0011 | EA | 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test .....                    | 60.79  |
| 02 82 13 00-0012 | EA | Next Day Turnaround, (Air Point Counting) PLM Test .....                              | 71.27  |
| 02 82 13 00-0013 | EA | Same Day Turnaround, (Air Point Counting) PLM Test .....                              | 113.20 |
| 02 82 13 00-0014 | EA | 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing .....                 | 194.96 |
| 02 82 13 00-0015 | EA | Next Day Turnaround, (Air) TEM Test, Asbestos Testing .....                           | 224.30 |
| 02 82 13 00-0016 | EA | Same Day Turnaround, (Air) TEM Test, Asbestos Testing .....                           | 312.35 |

**02 82 16 Engineering Control of Asbestos Containing Materials** (02 82)**02 82 16 00-0001****Asbestos Encapsulation (Lock-Down)** (02 82 16)

|                  |    |  |      |
|------------------|----|--|------|
| 02 82 16 00-0002 | SF | Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat .....  | 1.61 |
| 02 82 16 00-0003 | SF | Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound) ..... | 2.21 |
| 02 82 16 00-0004 | SF | Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®) .....   | 2.42 |
| 02 82 16 00-0005 | SF | Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®) .....   | 2.60 |
| 02 82 16 00-0006 | SF | Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®) .....  | 8.16 |
| 02 82 16 00-0007 | SF | Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®) .....   | 9.27 |

**02 82 33 Removal and Disposal of Asbestos Containing Materials** (02 82)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

**02 82 33 00-0001****Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal** (02 82 33)**02 82 33 00-0002****Pipe Insulation, Asbestos Abatement And Disposal** (02 82 33 00-0001)

Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

**02 82 33 00-0003****Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal** (02 82 33

00-0002)

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

|                  |     |   |          |
|------------------|-----|---|----------|
| 02 82 33 00-0004 | SET | Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....         | 1,162.38 |
|                  |     | <i>For Work In Restricted Working Space, Add</i>  | 335.54   |
| 02 82 33 00-0005 | LF  | >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....       | 40.33    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>  | 11.44    |
| 02 82 33 00-0006 | LF  | >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....      | 30.79    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>  | 8.58     |
| 02 82 33 00-0007 | LF  | >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....    | 23.65    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>  | 6.44     |
| 02 82 33 00-0008 | LF  | >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal ..... | 18.29    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>  | 4.83     |
| 02 82 33 00-0009 | LF  | >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....          | 16.19    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>  | 4.20     |

**02 82 33 00-0010****>6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal** (02 82

33 00-0002)

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

|                  |     |  |          |
|------------------|-----|--|----------|
| 02 82 33 00-0011 | SET | Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....      | 1,206.29 |
|                  |     | <i>For Work In Restricted Working Space, Add</i>   | 335.54   |
| 02 82 33 00-0012 | LF  | >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....    | 48.24    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>   | 13.16    |
| 02 82 33 00-0013 | LF  | >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....   | 37.27    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>   | 9.86     |
| 02 82 33 00-0014 | LF  | >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal ..... | 29.06    |
|                  |     | <i>For Work In Restricted Working Space, Add</i>   | 7.40     |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 02 82 33 00-0015 | LF    |     |     | >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 22.89<br>5.55          |                      |
| 02 82 33 00-0016 | LF    |     |     | >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 20.48<br>4.83          |                      |
| 02 82 33 00-0017 |       |     |     | <b>&gt;12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal</b> (02<br><small>82 33 00-0002</small><br>See CSI section 02 82 33 00-0031 for projects with less than 10 LF.  |                        |                      |
| 02 82 33 00-0018 | SET   |     |     | Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,250.20<br>335.54     |                      |
| 02 82 33 00-0019 | LF    |     |     | >20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 64.31<br>17.54         |                      |
| 02 82 33 00-0020 | LF    |     |     | >250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 49.69<br>13.15         |                      |
| 02 82 33 00-0021 | LF    |     |     | >500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 38.73<br>9.86          |                      |
| 02 82 33 00-0022 | LF    |     |     | >2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 30.51<br>7.40          |                      |
| 02 82 33 00-0023 | LF    |     |     | >10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 27.29<br>6.43          |                      |
| 02 82 33 00-0024 |       |     |     | <b>&gt;18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal</b> (02<br><small>82 33 00-0002</small><br>See CSI section 02 82 33 00-0031 for projects with less than 10 LF.  |                        |                      |
| 02 82 33 00-0025 | SET   |     |     | Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,294.11<br>335.54     |                      |
| 02 82 33 00-0026 | LF    |     |     | >20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 88.45<br>24.12         |                      |
| 02 82 33 00-0027 | LF    |     |     | >250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 68.33<br>18.08         |                      |
| 02 82 33 00-0028 | LF    |     |     | >500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 53.27<br>13.57         |                      |
| 02 82 33 00-0029 | LF    |     |     | >2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>   | 41.94<br>10.17         |                      |
| 02 82 33 00-0030 | LF    |     |     | >10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 37.54<br>8.85          |                      |
| 02 82 33 00-0031 |       |     |     | <b>Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal</b> (02 82 33<br><small>00-0002</small><br>Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes. |                        |                      |
| 02 82 33 00-0032 | SET   |     |     | Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal.....<br><i>For Work In Restricted Working Space, Add</i>  | 732.68<br>215.85       |                      |
| 02 82 33 00-0033 | LF    |     |     | >3 To 20 LF Additional Glove Bag Work for Pipe Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 124.31<br>35.98        |                      |
| 02 82 33 00-0034 | LF    |     |     | >20 To 250 LF Additional Glove Bag Work for Pipe Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 50.94<br>13.97         |                      |
| 02 82 33 00-0035 | LF    |     |     | >250 To 500 LF Additional Glove Bag Work for Pipe Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 39.30<br>10.47         |                      |
| 02 82 33 00-0036 | LF    |     |     | >500 LF Additional Glove Bag Work for Pipe Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 30.57<br>7.85          |                      |
| 02 82 33 00-0037 |       |     |     | <b>Thermal Insulation, Asbestos Abatement And Disposal</b> (02 82 33)   |                        |                      |
| 02 82 33 00-0038 |       |     |     | <b>Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal</b> (02 82 33 00-0037)<br>Note: e.g., duct, boiler, tank, etc.   |                        |                      |
| 02 82 33 00-0039 | SET   |     |     | Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....  | 1,145.91               |                      |
| 02 82 33 00-0040 | SF    |     |     | >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....  | 39.23                  |                      |
| 02 82 33 00-0041 | SF    |     |     | >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....   | 31.13                  |                      |
| 02 82 33 00-0042 | SF    |     |     | >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....  | 23.62                  |                      |
| 02 82 33 00-0043 | SF    |     |     | >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....   | 17.99                  |                      |
| 02 82 33 00-0044 |       |     |     | <b>Surfacing Material, Asbestos Abatement And Disposal</b> (02 82 33)   |                        |                      |
| 02 82 33 00-0045 |       |     |     | <b>Fireproofing For Small Areas, Asbestos Abatement And Disposal</b> (02 82 33 00-0044)<br>Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0047 for areas > 1 SF see CSI section.  |                        |                      |
| 02 82 33 00-0046 | EA    |     |     | Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....<br>Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.  | 187.52                 |                      |
| 02 82 33 00-0047 |       |     |     | <b>Fireproofing, Asbestos Abatement And Disposal</b> (02 82 33 00-0044)<br>Note: Exposed surface area, includes associated overspray.   |                        |                      |
| 02 82 33 00-0048 | SET   |     |     | Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal.....   | 1,145.91               |                      |
| 02 82 33 00-0049 | SF    |     |     | >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....   | 46.84                  |                      |
| 02 82 33 00-0050 | SF    |     |     | >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....  | 35.40                  |                      |
| 02 82 33 00-0051 | SF    |     |     | >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....   | 26.82                  |                      |
| 02 82 33 00-0052 | SF    |     |     | >10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....  | 20.39                  |                      |

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>02 82 33 00-0053 Acoustical Plaster, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0044)</small>   |                           |                         |
| Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.  |                           |                         |
| 02 82 33 00-0054 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....  | 1,136.77                  |                         |
| 02 82 33 00-0055 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....   | 19.84                     |                         |
| 02 82 33 00-0056 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....  | 15.18                     |                         |
| 02 82 33 00-0057 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....   | 11.45                     |                         |
| 02 82 33 00-0058 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....  | 8.65                      |                         |
| <b>02 82 33 00-0059 Gypsum Wall Board, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0044)</small>  |                           |                         |
| 02 82 33 00-0060 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....  | 1,155.07                  |                         |
| For Additional Layer, Add   | 307.58                    |                         |
| 02 82 33 00-0061 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....   | 15.41                     |                         |
| For Additional Layer, Add   | 4.04                      |                         |
| 02 82 33 00-0062 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....  | 11.45                     |                         |
| For Additional Layer, Add   | 2.95                      |                         |
| 02 82 33 00-0063 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....   | 9.12                      |                         |
| For Additional Layer, Add   | 2.31                      |                         |
| 02 82 33 00-0064 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....  | 7.26                      |                         |
| For Additional Layer, Add   | 1.80                      |                         |
| 02 82 33 00-0065 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....   | 5.86                      |                         |
| For Additional Layer, Add   | 1.41                      |                         |
| 02 82 33 00-0066 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....   | 4.83                      |                         |
| For Additional Layer, Add   | 1.13                      |                         |
| <b>02 82 33 00-0067 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0044)</small> |                           |                         |
| 02 82 33 00-0068 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....                    | 1,136.77                  |                         |
| 02 82 33 00-0069 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....                   | 28.60                     |                         |
| 02 82 33 00-0070 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....                | 21.14                     |                         |
| 02 82 33 00-0071 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....             | 16.67                     |                         |
| 02 82 33 00-0072 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....            | 13.13                     |                         |
| 02 82 33 00-0073 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....                      | 9.58                      |                         |
| <b>02 82 33 00-0074 Stucco, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0044)</small>   |                           |                         |
| 02 82 33 00-0075 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal.....  | 1,155.07                  |                         |
| 02 82 33 00-0076 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal.....   | 25.04                     |                         |
| 02 82 33 00-0077 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal.....  | 18.95                     |                         |
| 02 82 33 00-0078 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal.....   | 14.41                     |                         |
| 02 82 33 00-0079 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal.....  | 10.98                     |                         |
| <b>02 82 33 00-0080 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0044)</small>                                      |                           |                         |
| 02 82 33 00-0081 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....   | 1,155.07                  |                         |
| 02 82 33 00-0082 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....  | 13.16                     |                         |
| 02 82 33 00-0083 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....   | 10.78                     |                         |
| 02 82 33 00-0084 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....  | 7.72                      |                         |
| 02 82 33 00-0085 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....   | 5.97                      |                         |
| <b>02 82 33 00-0086 Plywood, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0044)</small>  |                           |                         |
| 02 82 33 00-0087 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....   | 1,147.75                  |                         |
| 02 82 33 00-0088 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal.....  | 16.58                     |                         |
| 02 82 33 00-0089 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....   | 8.35                      |                         |
| 02 82 33 00-0090 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....  | 5.88                      |                         |
| 02 82 33 00-0091 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....   | 5.11                      |                         |
| <b>02 82 33 00-0092 Flooring Material, Asbestos Abatement And Disposal</b> <small>(02 82 33)</small>  |                           |                         |
| <b>02 82 33 00-0093 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0092)</small>                             |                           |                         |
| <b>02 82 33 00-0094 Floor Tile, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0093)</small>   |                           |                         |
| Note: Single layer or first of multiple layers. Excludes mastic.  |                           |                         |
| 02 82 33 00-0095 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....                               | 1,125.79                  |                         |
| For Each Additional Layer, Add  | 168.87                    |                         |
| 02 82 33 00-0096 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....                              | 8.35                      |                         |
| For Each Additional Layer, Add  | 1.25                      |                         |
| 02 82 33 00-0097 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....                            | 6.92                      |                         |
| For Each Additional Layer, Add  | 1.04                      |                         |



|                             |              |           |
|-----------------------------|--------------|-----------|
| <b>Existing Conditions</b>  | <b>02</b>    | <b>02</b> |
| <b>Facility Remediation</b> | <b>02 80</b> |           |
| <b>Asbestos Remediation</b> | <b>02 82</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 82 33 00-0098 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>   | 5.62<br>0.84              |                         |
| 02 82 33 00-0099 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>  | 4.04<br>0.61              |                         |
| <b>02 82 33 00-0100 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal</b> (02 82 33 00-0093)<br>Note: Single layer or first of multiple layers. Excludes mastic.  |                           |                         |
| 02 82 33 00-0101 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>   | 1,125.79<br>168.87        |                         |
| 02 82 33 00-0102 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>  | 8.35<br>1.25              |                         |
| 02 82 33 00-0103 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>  | 6.96<br>1.04              |                         |
| 02 82 33 00-0104 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>   | 6.35<br>0.95              |                         |
| 02 82 33 00-0105 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....<br><i>For Each Additional Layer, Add</i>  | 5.23<br>0.78              |                         |
| <b>02 82 33 00-0106 Carpet, Asbestos Abatement And Disposal</b> (02 82 33 00-0093)   |                           |                         |
| 02 82 33 00-0107 SET Up To 100 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....   | 1,125.79                  |                         |
| 02 82 33 00-0108 SF >100 To 500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....  | 6.63                      |                         |
| 02 82 33 00-0109 SF >500 To 2,500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....  | 5.46                      |                         |
| 02 82 33 00-0110 SF >2,500 To 10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....   | 4.12                      |                         |
| 02 82 33 00-0111 SF >10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....  | 3.25                      |                         |
| <b>02 82 33 00-0112 Wall Or Cove Base, Asbestos Abatement And Disposal</b> (02 82 33 00-0093)<br>Note: Up to 12".  |                           |                         |
| 02 82 33 00-0113 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....   | 381.97                    |                         |
| 02 82 33 00-0114 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....  | 5.34                      |                         |
| 02 82 33 00-0115 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....   | 3.35                      |                         |
| 02 82 33 00-0116 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....   | 2.23                      |                         |
| 02 82 33 00-0117 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....  | 1.68                      |                         |
| <b>02 82 33 00-0118 Mastic, Asbestos Abatement And Disposal</b> (02 82 33 00-0092)<br>Note: Applies to single layer or bottom layer only of multiple layers. Non-hydrocarbon with pine, citrus or no odor.   |                           |                         |
| 02 82 33 00-0119 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal.....<br>Note: Applies to bottom layer only if multiple layers.  | 1,136.78                  |                         |
| 02 82 33 00-0120 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....<br>Note: Applies to bottom layer only if multiple layers.   | 2.97                      |                         |
| 02 82 33 00-0121 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....<br>Note: Applies to bottom layer only if multiple layers.   | 2.22                      |                         |
| 02 82 33 00-0122 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....<br>Note: Applies to bottom layer only if multiple layers.  | 1.75                      |                         |
| 02 82 33 00-0123 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....<br>Note: Applies to bottom layer only if multiple layers.   | 1.44                      |                         |
| <b>02 82 33 00-0124 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal</b> (02 82 33 00-0092)<br>Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination. |                           |                         |
| 02 82 33 00-0125 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....  | 1,191.67                  |                         |
| 02 82 33 00-0126 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....   | 9.54                      |                         |
| 02 82 33 00-0127 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....   | 7.16                      |                         |
| 02 82 33 00-0128 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....  | 5.76                      |                         |
| 02 82 33 00-0129 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....   | 4.64                      |                         |
| <b>02 82 33 00-0130 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal</b> (02 82 33 00-0092)   |                           |                         |
| 02 82 33 00-0131 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....  | 1,155.05                  |                         |
| 02 82 33 00-0132 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....   | 10.34                     |                         |
| 02 82 33 00-0133 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....<br>Note: Includes detachment of mounted objects before removal.   | 6.90                      |                         |
| 02 82 33 00-0134 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....  | 5.50                      |                         |
| 02 82 33 00-0135 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....   | 4.56                      |                         |
| <b>02 82 33 00-0136 Roofing, Asbestos Abatement And Disposal</b> (02 82 33)  |                           |                         |
| <b>02 82 33 00-0137 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal</b> (02 82 33 00-0136)<br>Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.  |                           |                         |

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |   |          |
|------------------|---|----------|
| 02 82 33 00-0138 | Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0137)</small>          |          |
| 02 82 33 00-0139 | SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                     | 1,209.97 |
| 02 82 33 00-0140 | SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                  | 7.88     |
| 02 82 33 00-0141 | SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                | 6.45     |
| 02 82 33 00-0142 | SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....               | 5.31     |
| 02 82 33 00-0143 | SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....              | 4.16     |
| 02 82 33 00-0144 | SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                        | 3.30     |
| 02 82 33 00-0145 | >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0137)</small>         |          |
| 02 82 33 00-0146 | SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                    | 1,279.47 |
| 02 82 33 00-0147 | SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                 | 9.61     |
| 02 82 33 00-0148 | SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....               | 7.94     |
| 02 82 33 00-0149 | SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....              | 6.69     |
| 02 82 33 00-0150 | SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....             | 5.37     |
| 02 82 33 00-0151 | SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                       | 4.38     |
| 02 82 33 00-0152 | >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0137)</small>               |          |
| 02 82 33 00-0153 | SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                          | 1,359.97 |
| 02 82 33 00-0154 | SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                       | 11.24    |
| 02 82 33 00-0155 | SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                     | 9.40     |
| 02 82 33 00-0156 | SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                    | 8.01     |
| 02 82 33 00-0157 | SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                   | 6.55     |
| 02 82 33 00-0158 | SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....                             | 5.46     |
| 02 82 33 00-0159 | Shingles And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0136)</small>  |          |
| 02 82 33 00-0160 | Shingles And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0159)</small>  |          |
| 02 82 33 00-0161 | SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....<br>Note: Single or first of multiple layers.        | 1,141.34 |
| 02 82 33 00-0162 | SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....<br>Note: Single or first of multiple layers.     | 7.33     |
|                  | <i>For Each Additional Layer, Add</i>   | 1.47     |
| 02 82 33 00-0163 | SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....<br>Note: Single or first of multiple layers.   | 5.90     |
|                  | <i>For Each Additional Layer, Add</i>   | 1.18     |
| 02 82 33 00-0164 | SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....<br>Note: Single or first of multiple layers.  | 4.76     |
|                  | <i>For Each Additional Layer, Add</i>   | 0.95     |
| 02 82 33 00-0165 | SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....<br>Note: Single or first of multiple layers. | 3.61     |
|                  | <i>For Each Additional Layer, Add</i>   | 0.72     |
| 02 82 33 00-0166 | SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....<br>Note: Single or first of multiple layers.           | 2.75     |
|                  | <i>For Each Additional Layer, Add</i>   | 0.55     |
| 02 82 33 00-0167 | Roof Penetration Mastic, Asbestos Abatement And Disposal <small>(02 82 33 00-0136)</small>  |          |
| 02 82 33 00-0168 | SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....  | 374.65   |
| 02 82 33 00-0169 | SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....  | 2.98     |
| 02 82 33 00-0170 | SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....   | 2.47     |
| 02 82 33 00-0171 | SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....  | 2.03     |
| 02 82 33 00-0172 | SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....   | 1.52     |
| 02 82 33 00-0173 | Roof Curb Mastic, Asbestos Abatement And Disposal <small>(02 82 33 00-0136)</small>   |          |
| 02 82 33 00-0174 | SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....   | 374.65   |
| 02 82 33 00-0175 | LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....   | 8.57     |
| 02 82 33 00-0176 | LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....   | 6.89     |
| 02 82 33 00-0177 | LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....  | 5.77     |
| 02 82 33 00-0178 | LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....  | 4.20     |
| 02 82 33 00-0179 | Asbestos-Cement Products, Asbestos Abatement And Disposal <small>(02 82 33)</small>   |          |



|                            |           |           |
|----------------------------|-----------|-----------|
| <b>Existing Conditions</b> | <b>02</b> | <b>02</b> |
| Facility Remediation       | 02 80     |           |
| Asbestos Remediation       | 02 82     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>02 82 33 00-0180</b> Interior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0179)</small>           |                           |                         |
| <i>Note: Includes detachment of mounted objects before removal.</i>   |                           |                         |
| 02 82 33 00-0181 SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal .....                            | 1,155.05                  |                         |
| <i>Note: Includes detachment of mounted objects before removal.</i>   |                           |                         |
| 02 82 33 00-0182 SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                            | 7.99                      |                         |
| <i>Note: Includes detachment of mounted objects before removal.</i>   |                           |                         |
| 02 82 33 00-0183 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                          | 4.19                      |                         |
| <i>Note: Includes detachment of mounted objects before removal.</i>   |                           |                         |
| 02 82 33 00-0184 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                       | 3.41                      |                         |
| <i>Note: Includes detachment of mounted objects before removal.</i>   |                           |                         |
| 02 82 33 00-0185 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                                | 3.02                      |                         |
| <i>Note: Includes detachment of mounted objects before removal.</i>   |                           |                         |
| <b>02 82 33 00-0186</b> Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0179)</small>           |                           |                         |
| 02 82 33 00-0187 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....                            | 1,155.05                  |                         |
| 02 82 33 00-0188 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                            | 6.99                      |                         |
| 02 82 33 00-0189 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                          | 3.76                      |                         |
| 02 82 33 00-0190 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                       | 3.08                      |                         |
| 02 82 33 00-0191 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....                                | 2.73                      |                         |
| <b>02 82 33 00-0192</b> Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal <small>(02 82 33 00-0179)</small>  |                           |                         |
| 02 82 33 00-0193 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....                     | 975.97                    |                         |
| 02 82 33 00-0194 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....                   | 42.52                     |                         |
| 02 82 33 00-0195 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....                  | 32.98                     |                         |
| 02 82 33 00-0196 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....                  | 25.84                     |                         |
| 02 82 33 00-0197 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....                | 20.48                     |                         |
| 02 82 33 00-0198 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....             | 16.45                     |                         |
| 02 82 33 00-0199 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....                      | 16.18                     |                         |
| <b>02 82 33 00-0200</b> Exterior Transite Siding, Asbestos Abatement And Disposal <small>(02 82 33 00-0179)</small>                 |                           |                         |
| 02 82 33 00-0201 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....                                  | 1,180.49                  |                         |
| <i>Note: Single or first of multiple layers.</i>  |                           |                         |
| 02 82 33 00-0202 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....                                | 6.33                      |                         |
| <i>Note: Single or first of multiple layers.</i>  |                           |                         |
| 02 82 33 00-0203 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....                              | 5.13                      |                         |
| <i>Note: Single or first of multiple layers.</i>  |                           |                         |
| 02 82 33 00-0204 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....                             | 4.19                      |                         |
| <i>Note: Single or first of multiple layers.</i>  |                           |                         |
| 02 82 33 00-0205 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....                            | 3.23                      |                         |
| <i>Note: Single or first of multiple layers.</i>  |                           |                         |
| 02 82 33 00-0206 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....                                      | 2.52                      |                         |
| <i>Note: Single or first of multiple layers.</i>  |                           |                         |
| <b>02 82 33 00-0207</b> Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0207)</small>             |                           |                         |
| <b>02 82 33 00-0208</b> Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0207)</small>             |                           |                         |
| 02 82 33 00-0209 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....                                | 789.55                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| 02 82 33 00-0210 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....                              | 78.53                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| 02 82 33 00-0211 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....                             | 53.82                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| 02 82 33 00-0212 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....                             | 41.52                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| 02 82 33 00-0213 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....                           | 34.05                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| 02 82 33 00-0214 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....                         | 29.60                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| 02 82 33 00-0215 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....                                  | 27.07                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
| <b>02 82 33 00-0216</b> Other Asbestos Containing Materials, Asbestos Abatement And Disposal <small>(02 82 33 00-0216)</small>      |                           |                         |
| <b>02 82 33 00-0217</b> 30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0216)</small>                     |                           |                         |
| 02 82 33 00-0218 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....   | 392.58                    |                         |
| 02 82 33 00-0219 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....  | 153.98                    |                         |
| 02 82 33 00-0220 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....   | 140.55                    |                         |
| <b>02 82 33 00-0221</b> HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal <small>(02 82 33 00-0216)</small> |                           |                         |
| 02 82 33 00-0222 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal.....                    | 373.73                    |                         |
| 02 82 33 00-0223 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....                   | 7.71                      |                         |



**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 02 82 33 00-0224        | LF  |     | >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....   | 5.81                   |                      |
| 02 82 33 00-0225        | LF  |     | >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....  | 5.00                   |                      |
| 02 82 33 00-0226        | LF  |     | >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....  | 4.33                   |                      |
| 02 82 33 00-0227        | LF  |     | >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....  | 3.71                   |                      |
| 02 82 33 00-0228        | LF  |     | >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....   | 3.22                   |                      |
| <b>02 82 33 00-0229</b> |     |     | <b>Grout, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)<br>Note: e.g. flue grout.   |                        |                      |
| 02 82 33 00-0230        | SET |     | Up To 10 LF, Grout, Asbestos Abatement And Disposal .....  | 373.43                 |                      |
| 02 82 33 00-0231        | LF  |     | >10 To 50 LF, Grout, Asbestos Abatement And Disposal .....   | 14.74                  |                      |
| 02 82 33 00-0232        | LF  |     | >50 To 100 LF, Grout, Asbestos Abatement And Disposal .....  | 10.17                  |                      |
| 02 82 33 00-0233        | LF  |     | >100 To 250 LF, Grout, Asbestos Abatement And Disposal .....   | 8.72                   |                      |
| 02 82 33 00-0234        | LF  |     | >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal .....   | 7.49                   |                      |
| 02 82 33 00-0235        | LF  |     | >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal .....   | 6.47                   |                      |
| 02 82 33 00-0236        | LF  |     | >2,500 LF, Grout, Asbestos Abatement And Disposal.....   | 5.55                   |                      |
| <b>02 82 33 00-0237</b> |     |     | <b>Gaskets, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)<br>Note: e.g. rope, web cloth, flat.  |                        |                      |
| 02 82 33 00-0238        | SET |     | Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....   | 373.73                 |                      |
| 02 82 33 00-0239        | LF  |     | >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal .....   | 19.86                  |                      |
| 02 82 33 00-0240        | LF  |     | >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal .....  | 14.92                  |                      |
| 02 82 33 00-0241        | LF  |     | >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal .....   | 12.72                  |                      |
| 02 82 33 00-0242        | LF  |     | >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal .....   | 11.46                  |                      |
| 02 82 33 00-0243        | LF  |     | >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal .....   | 10.31                  |                      |
| 02 82 33 00-0244        | LF  |     | >2,500 LF, Gaskets, Asbestos Abatement And Disposal .....  | 9.81                   |                      |
| <b>02 82 33 00-0245</b> |     |     | <b>Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)<br>Note: e.g. grid, spline, or glued on.  |                        |                      |
| 02 82 33 00-0246        | SET |     | Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal .....   | 763.93                 |                      |
|                         |     |     | Note: Including Glue Removal   |                        |                      |
| 02 82 33 00-0247        | SF  |     | >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal .....   | 16.22                  |                      |
|                         |     |     | Note: Including Glue Removal   |                        |                      |
| 02 82 33 00-0248        | SF  |     | >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal .....  | 7.99                   |                      |
|                         |     |     | Note: Including Glue Removal   |                        |                      |
| 02 82 33 00-0249        | SF  |     | >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal .....   | 5.52                   |                      |
|                         |     |     | Note: Including Glue Removal   |                        |                      |
| 02 82 33 00-0250        | SF  |     | >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal .....  | 4.75                   |                      |
|                         |     |     | Note: Including Glue Removal   |                        |                      |
| <b>02 82 33 00-0251</b> |     |     | <b>Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)<br>Note: Includes ceiling tile, asbestos barrier paper, and furring strips. |                        |                      |
| 02 82 33 00-0252        | SET |     | Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....  | 755.52                 |                      |
| 02 82 33 00-0253        | SF  |     | >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....  | 16.22                  |                      |
| 02 82 33 00-0254        | SF  |     | >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....   | 7.99                   |                      |
| 02 82 33 00-0255        | SF  |     | >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....  | 5.52                   |                      |
| 02 82 33 00-0256        | SF  |     | >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....   | 4.75                   |                      |
| <b>02 82 33 00-0257</b> |     |     | <b>Caulking, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)  |                        |                      |
| <b>02 82 33 00-0258</b> |     |     | <b>Non-Friable Caulking, Asbestos Abatement And Disposal</b> (02 82 33 00-0257)  |                        |                      |
| 02 82 33 00-0259        | SET |     | Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....   | 373.43                 |                      |
| 02 82 33 00-0260        | LF  |     | >10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....  | 11.06                  |                      |
| 02 82 33 00-0261        | LF  |     | >50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....   | 7.81                   |                      |
| 02 82 33 00-0262        | LF  |     | >100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....  | 5.83                   |                      |
| 02 82 33 00-0263        | LF  |     | >250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....  | 4.39                   |                      |
| 02 82 33 00-0264        | LF  |     | >1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....  | 3.49                   |                      |
| 02 82 33 00-0265        | LF  |     | >2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....   | 3.03                   |                      |
| <b>02 82 33 00-0266</b> |     |     | <b>Window Putty, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)  |                        |                      |
| 02 82 33 00-0267        | SET |     | Up To 10 LF, Window Putty, Asbestos Abatement And Disposal .....   | 373.43                 |                      |
| 02 82 33 00-0268        | LF  |     | >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal .....  | 14.74                  |                      |
| 02 82 33 00-0269        | LF  |     | >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal .....   | 10.17                  |                      |
| 02 82 33 00-0270        | LF  |     | >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal .....  | 8.72                   |                      |
| 02 82 33 00-0271        | LF  |     | >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal .....  | 7.49                   |                      |
| 02 82 33 00-0272        | LF  |     | >1,000 LF, Window Putty, Asbestos Abatement And Disposal .....   | 6.47                   |                      |
| <b>02 82 33 00-0273</b> |     |     | <b>Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal</b> (02 82 33 00-0216)   |                        |                      |



|                            |           |           |
|----------------------------|-----------|-----------|
| <b>Existing Conditions</b> | <b>02</b> | <b>02</b> |
| Facility Remediation       | 02 80     |           |
| Asbestos Remediation       | 02 82     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 82 33 00-0274 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....       | 829.95                    |                         |
| 02 82 33 00-0275 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....      | 87.80                     |                         |
| 02 82 33 00-0276 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....     | 65.57                     |                         |
| 02 82 33 00-0277 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....    | 54.49                     |                         |
| 02 82 33 00-0278 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....   | 47.77                     |                         |
| 02 82 33 00-0279 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal ..... | 43.77                     |                         |
| 02 82 33 00-0280 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....        | 41.49                     |                         |

**02 83 Lead Remediation (02 80)**

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 83 19 Lead-Based Paint Remediation (02 83)**

**02 83 19 13 Lead-Based Paint Abatement (02 83 19)**

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting.

**02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13)**

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.

|  |        |
|--|--------|
| 02 83 19 13-0002 HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring .....                     | 87.75  |
| 02 83 19 13-0003 EA X-Ray Fluorescence (XRF) Lead Testing .....  | 72.26  |
| Note: Including Technician, 3 Readings Per Surface And Lab Fee   |        |
| 02 83 19 13-0004 EA 5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....   | 69.18  |
| 02 83 19 13-0005 EA 48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee ..... | 104.82 |
| 02 83 19 13-0006 EA 24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee ..... | 146.74 |
| 02 83 19 13-0007 EA 5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee .....        | 27.25  |
| 02 83 19 13-0008 EA 24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee .....      | 41.93  |
| 02 83 19 13-0009 EA 8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee .....       | 52.41  |
| 02 83 19 13-0010 EA 5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee .....        | 69.18  |
| 02 83 19 13-0011 EA 3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee .....        | 104.82 |
| 02 83 19 13-0012 EA 5 Day Turnaround Lead Wipe Samples And Lab Fee .....   | 11.53  |
| 02 83 19 13-0013 EA 24 Hour Turnaround Lead Wipe Samples And Lab Fee .....   | 15.72  |
| 02 83 19 13-0014 EA 8 Hour Turnaround Lead Wipe Samples And Lab Fee .....  | 23.06  |
| 02 83 19 13-0015 EA 5 Day Turnaround Lead Air Samples And Lab Fee .....  | 11.53  |
| 02 83 19 13-0016 EA 24 Hour Turnaround Lead Air Samples And Lab Fee .....  | 15.72  |
| 02 83 19 13-0017 EA 8 Hour Turnaround Lead Air Samples And Lab Fee .....   | 23.06  |
| 02 83 19 13-0018 EA 5 Day Turnaround Lead Water Test and Lab Fee .....   | 41.93  |
| 02 83 19 13-0019 EA 24 Hour Turnaround Lead Water Test and Lab Fee .....   | 62.89  |
| 02 83 19 13-0020 EA 8 Hour Turnaround Lead Water Test and Lab Fee .....  | 83.85  |
| 02 83 19 13-0021 EA 5 Day Turnaround Lead Paint Chip Test and Lab Fee .....  | 43.36  |
| 02 83 19 13-0022 EA 5 Day Turnaround Lead Soil Test and Lab Fee .....  | 86.72  |

**02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)**

|   |          |
|---|----------|
| 02 83 19 13-0024 EA Lead-Based Paint Remediation Minimum Show Up Charge .....   | 1,205.58 |
| Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring. |          |

**02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)**

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

|  |       |
|--|-------|
| 02 83 19 13-0026 SF Balustrades, Chemical Stripping Of Lead Contaminated Material .....                | 33.75 |
| For 0.025" (25 mil) Application, Add   | 1.94  |
| For 0.03" (30 mil) Application, Add  | 3.06  |
| 02 83 19 13-0027 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material .....        | 50.00 |
| For 0.025" (25 mil) Application, Add   | 2.75  |
| For 0.03" (30 mil) Application, Add  | 4.28  |
| 02 83 19 13-0028 LF Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material .....   | 14.52 |
| For 0.025" (25 mil) Application, Add   | 0.88  |
| For 0.03" (30 mil) Application, Add  | 1.41  |
| For 0.125" (125 mil) Application, Add  | 8.13  |
| 02 83 19 13-0029 LF >6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material ..... | 29.57 |
| For 0.025" (25 mil) Application, Add   | 1.63  |
| For 0.03" (30 mil) Application, Add  | 2.54  |
| For 0.125" (125 mil) Application, Add  | 11.89 |
| 02 83 19 13-0030 SF Cornice, Chemical Stripping Of Lead Contaminated Material .....                    | 15.82 |
| For 0.025" (25 mil) Application, Add   | 1.04  |
| For 0.03" (30 mil) Application, Add  | 1.72  |
| 02 83 19 13-0031 SF Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material .....            | 44.58 |
| For 0.025" (25 mil) Application, Add   | 2.48  |
| For 0.03" (30 mil) Application, Add  | 3.87  |

**02 Existing Conditions****02 80 Facility Remediation****02 83 Lead Remediation**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 02 83 19 13-0032 | SF  |     | Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material.....         | 9.78                   |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.69                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.16                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 8.45                   |                      |
| 02 83 19 13-0033 | SF  |     | Cabinets, Chemical Stripping Of Lead Contaminated Material.....                                | 28.21                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.61                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.54                   |                      |
| 02 83 19 13-0034 | SF  |     | Cabinets, Ormate, Chemical Stripping Of Lead Contaminated Material.....                        | 35.93                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 2.00                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 3.12                   |                      |
| 02 83 19 13-0035 | SF  |     | Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material.....    | 13.45                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.87                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.43                   |                      |
| 02 83 19 13-0036 | SF  |     | Columns, Chemical Stripping Of Lead Contaminated Material.....                                 | 12.95                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.90                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.50                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 10.74                  |                      |
| 02 83 19 13-0037 | SF  |     | Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material.....                   | 11.40                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.77                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.28                   |                      |
| 02 83 19 13-0038 | SF  |     | Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material..... | 13.99                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.90                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.47                   |                      |
| 02 83 19 13-0039 | SF  |     | Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated.....                 | 20.59                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.28                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.08                   |                      |
| 02 83 19 13-0040 | EA  |     | Electrical Devices, Chemical Stripping Of Lead Contaminated Material.....                      | 58.71                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 3.34                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 5.25                   |                      |
| 02 83 19 13-0041 | LF  |     | Door Frames, Chemical Stripping Of Lead Contaminated Material.....                             | 14.61                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.93                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.52                   |                      |
| 02 83 19 13-0042 | SF  |     | Wood Floors, Chemical Stripping Of Lead Contaminated Material.....                             | 8.07                   |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.60                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.03                   |                      |
| 02 83 19 13-0043 | SF  |     | HVAC Grilles, Chemical Stripping Of Lead Contaminated Material.....                            | 30.14                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.71                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.69                   |                      |
| 02 83 19 13-0044 | SF  |     | HVAC Grilles, Ormate, Chemical Stripping Of Lead Contaminated Material.....                    | 35.93                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 2.00                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 3.12                   |                      |
| 02 83 19 13-0045 | EA  |     | Hinges, Chemical Stripping Of Lead Contaminated Material.....                                  | 18.97                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.25                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.06                   |                      |
| 02 83 19 13-0046 | EA  |     | Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material.....               | 23.33                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.47                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.39                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 14.83                  |                      |
| 02 83 19 13-0047 | LF  |     | Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....     | 6.54                   |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.48                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 0.81                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 6.14                   |                      |
| 02 83 19 13-0048 | LF  |     | >2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....    | 10.46                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.67                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.10                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 7.12                   |                      |
| 02 83 19 13-0049 | LF  |     | >4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....    | 18.72                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.19                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.94                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 12.18                  |                      |
| 02 83 19 13-0050 | LF  |     | >8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....   | 25.62                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.58                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.56                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 15.41                  |                      |
| 02 83 19 13-0051 | LF  |     | >12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....  | 45.91                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 2.75                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 4.40                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 24.98                  |                      |
| 02 83 19 13-0052 | SF  |     | >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area..... | 13.71                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.79                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.26                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 6.67                   |                      |
| 02 83 19 13-0053 | EA  |     | Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material.....                   | 272.17                 |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 15.06                  |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 23.50                  |                      |
| 02 83 19 13-0054 | SF  |     | Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....     | 19.27                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.53                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.64                   |                      |
| 02 83 19 13-0055 | SF  |     | Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....                  | 21.08                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 1.62                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 2.78                   |                      |
| 02 83 19 13-0056 | SF  |     | Siding, Chemical Stripping Of Lead Contaminated Material.....                                  | 10.96                  |                      |
|                  |     |     | <i>For 0.025" (25 mil) Application, Add</i>  | 0.80                   |                      |
|                  |     |     | <i>For 0.03" (30 mil) Application, Add</i>   | 1.35                   |                      |
|                  |     |     | <i>For 0.125" (125 mil) Application, Add</i>   | 10.24                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 83 19 13-0057 SF Soffit, Chemical Stripping Of Lead Contaminated Material.....   | 22.83                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.34                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.14                      |                         |
| For 0.125" (125 mil) Application, Add   | 11.71                     |                         |
| 02 83 19 13-0058 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material.....  | 10.55                     |                         |
| For 0.025" (25 mil) Application, Add  | 0.73                      |                         |
| For 0.03" (30 mil) Application, Add   | 1.22                      |                         |
| For 0.125" (125 mil) Application, Add   | 8.64                      |                         |
| 02 83 19 13-0059 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material.....   | 11.97                     |                         |
| For 0.025" (25 mil) Application, Add  | 0.80                      |                         |
| For 0.03" (30 mil) Application, Add   | 1.32                      |                         |
| For 0.125" (125 mil) Application, Add   | 8.99                      |                         |
| 02 83 19 13-0060 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....  | 11.94                     |                         |
| For 0.025" (25 mil) Application, Add  | 0.80                      |                         |
| For 0.03" (30 mil) Application, Add   | 1.32                      |                         |
| For 0.125" (125 mil) Application, Add   | 8.99                      |                         |
| 02 83 19 13-0061 SF Steel Trusses, Chemical Stripping Of Lead Contaminated Material.....  | 16.88                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.04                      |                         |
| For 0.03" (30 mil) Application, Add   | 1.69                      |                         |
| For 0.125" (125 mil) Application, Add   | 10.22                     |                         |
| 02 83 19 13-0062 SF Wood Surfaces, Chemical Stripping Of Lead Contaminated Material.....  | 11.94                     |                         |
| For 0.025" (25 mil) Application, Add  | 0.80                      |                         |
| For 0.03" (30 mil) Application, Add   | 1.32                      |                         |
| For 0.125" (125 mil) Application, Add   | 8.99                      |                         |
| 02 83 19 13-0063 SF Windows (Sash, Sill, Jambs, Casing Trim), One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material.....            | 27.38                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.57                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.48                      |                         |
| 02 83 19 13-0064 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material.....   | 29.96                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.70                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.67                      |                         |
| 02 83 19 13-0065 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material.....   | 31.71                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.79                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.80                      |                         |
| 02 83 19 13-0066 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material.....   | 33.46                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.87                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.93                      |                         |
| 02 83 19 13-0067 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material.....    | 35.20                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.96                      |                         |
| For 0.03" (30 mil) Application, Add   | 3.07                      |                         |
| 02 83 19 13-0068 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material..... | 37.01                     |                         |
| For 0.025" (25 mil) Application, Add  | 2.05                      |                         |
| For 0.03" (30 mil) Application, Add   | 3.20                      |                         |
| 02 83 19 13-0069 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material.....  | 38.71                     |                         |
| For 0.025" (25 mil) Application, Add  | 2.14                      |                         |
| For 0.03" (30 mil) Application, Add   | 3.33                      |                         |
| 02 83 19 13-0070 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material..... | 39.59                     |                         |
| For 0.025" (25 mil) Application, Add  | 2.18                      |                         |
| For 0.03" (30 mil) Application, Add   | 3.39                      |                         |
| 02 83 19 13-0071 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material.....  | 40.48                     |                         |
| For 0.025" (25 mil) Application, Add  | 2.22                      |                         |
| For 0.03" (30 mil) Application, Add   | 3.46                      |                         |
| 02 83 19 13-0072 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material..... | 41.32                     |                         |
| For 0.025" (25 mil) Application, Add  | 2.27                      |                         |
| For 0.03" (30 mil) Application, Add   | 3.52                      |                         |
| 02 83 19 13-0073 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material.....   | 54.66                     |                         |
| For 0.025" (25 mil) Application, Add  | 3.13                      |                         |
| For 0.03" (30 mil) Application, Add   | 4.95                      |                         |
| For 0.125" (125 mil) Application, Add   | 25.67                     |                         |
| 02 83 19 13-0074 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....   | 9.53                      |                         |
| For 0.025" (25 mil) Application, Add  | 0.63                      |                         |
| For 0.03" (30 mil) Application, Add   | 1.03                      |                         |
| For 0.125" (125 mil) Application, Add   | 6.88                      |                         |
| 02 83 19 13-0075 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material.....  | 27.83                     |                         |
| Note: The unit of measure "SF" is measured for "Length x Height". Work includes both sides of railing.  |                           |                         |
| For 0.025" (25 mil) Application, Add  | 1.69                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.72                      |                         |
| For 0.125" (125 mil) Application, Add   | 15.96                     |                         |
| 02 83 19 13-0076 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....   | 30.39                     |                         |
| For 0.025" (25 mil) Application, Add  | 1.77                      |                         |
| For 0.03" (30 mil) Application, Add   | 2.81                      |                         |
| For 0.125" (125 mil) Application, Add   | 15.10                     |                         |

**02 Existing Conditions****02 80 Facility Remediation****02 83 Lead Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**02 83 19 13-0077****Demolish Lead Contaminated Material** (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

|                  |    |   |        |
|------------------|----|---|--------|
| 02 83 19 13-0078 | SF | Demolish Ceiling Suspension System, Lead Contaminated Material  | 2.40   |
| 02 83 19 13-0079 | SF | Demolish Suspended Ceiling System And Tile, Lead Contaminated Material                                | 1.39   |
| 02 83 19 13-0080 | SF | Demolish Acoustical Ceiling Tile, Lead Contaminated Material  | 0.89   |
| 02 83 19 13-0081 | SF | Demolish Metal Pan Grid System, Lead Contaminated Material  | 1.38   |
| 02 83 19 13-0082 | EA | Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material                              | 66.82  |
| 02 83 19 13-0083 | EA | Demolish >2' x 4' Light Fixtures, Lead Contaminated Material  | 88.64  |
| 02 83 19 13-0084 | SF | Demolish Non-Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material | 9.90   |
| 02 83 19 13-0085 | SF | Demolish Non-Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material            | 5.55   |
| 02 83 19 13-0086 | SF | Demolish Brick, Lead Contaminated Material  | 4.17   |
| 02 83 19 13-0087 | SF | Demolish Concrete Block, Lead Contaminated Material   | 5.37   |
| 02 83 19 13-0088 | SF | Demolish Tile, Lead Contaminated Material   | 4.05   |
| 02 83 19 13-0089 | SF | Demolish Up To 6" Concrete, Lead Contaminated Material  | 6.09   |
| 02 83 19 13-0090 | IN | Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth                       | 4.75   |
| 02 83 19 13-0091 | IN | Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth                      | 6.33   |
| 02 83 19 13-0092 | LF | Demolish Wood Balustrades And Railings, Lead Contaminated Material                                    | 6.93   |
| 02 83 19 13-0093 | LF | Demolish Up To 6" Wide Baseboard, Lead Contaminated Material  | 1.81   |
| 02 83 19 13-0094 | LF | Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material  | 2.26   |
| 02 83 19 13-0095 | LF | Demolish Base Shoe Molding, Lead Contaminated Material  | 1.47   |
| 02 83 19 13-0096 | SF | Demolish Concrete, Lead Contaminated Material   | 13.78  |
| 02 83 19 13-0097 | LF | Demolish Cabinets, Lead Contaminated Material   | 32.11  |
| 02 83 19 13-0098 | SF | Demolish Ceilings, Gypsum Board, Lead Contaminated Material   | 1.82   |
| 02 83 19 13-0099 | SF | Demolish Up To 12" Diameter Columns, Lead Contaminated Material                                       | 17.79  |
| 02 83 19 13-0100 | SF | Demolish Cornice, Lead Contaminated Material  | 2.37   |
| 02 83 19 13-0101 | EA | Demolish Doors, Lead Contaminated Material  | 69.65  |
| 02 83 19 13-0102 | LF | Demolish Door And Window Trim Or Frames, Lead Contaminated Material                                   | 2.11   |
| 02 83 19 13-0103 | EA | Demolish Electrical Devices, Lead Contaminated Material   | 21.37  |
| 02 83 19 13-0104 | LF | Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material                             | 2.75   |
| 02 83 19 13-0105 | LF | Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material                            | 4.56   |
| 02 83 19 13-0106 | SF | Demolish Wood Floors, Lead Contaminated Material  | 3.29   |
| 02 83 19 13-0107 | SF | Demolish Grilles, Lead Contaminated Material  | 3.87   |
| 02 83 19 13-0108 | EA | Demolish Hinges, Lead Contaminated Material   | 7.77   |
| 02 83 19 13-0109 | EA | Demolish Up To 6" Diameter Hangers, Lead Contaminated Material  | 16.69  |
| 02 83 19 13-0110 | LF | Demolish Up To 2" Diameter Pipes, Lead Contaminated Material  | 6.85   |
| 02 83 19 13-0111 | LF | Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material   | 9.99   |
| 02 83 19 13-0112 | LF | Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material   | 15.09  |
| 02 83 19 13-0113 | LF | Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material  | 27.83  |
| 02 83 19 13-0114 | EA | Demolish Radiators, Lead Contaminated Material  | 120.21 |
| 02 83 19 13-0115 | EA | Demolish Shutters, Lead Contaminated Material   | 46.84  |
| 02 83 19 13-0116 | SF | Demolish Siding, Lead Contaminated Material   | 1.86   |
| 02 83 19 13-0117 | SF | Demolish Soffit, Lead Contaminated Material   | 1.58   |
| 02 83 19 13-0118 | SF | Demolish Flat Steel Surfaces, Lead Contaminated Material  | 4.33   |
| 02 83 19 13-0119 | SF | Demolish Steel Beams, Lead Contaminated Material  | 5.10   |
| 02 83 19 13-0120 | SF | Demolish Trusses, Lead Contaminated Material  | 6.69   |
| 02 83 19 13-0121 | SF | Demolish Walls, Wood, Lead Contaminated Material  | 4.95   |
| 02 83 19 13-0122 | SF | Demolish Windows, Lead Contaminated Material  | 16.63  |
| 02 83 19 13-0123 | SF | Demolish Metal Stair, Lead Contaminated Material  | 7.96   |
| 02 83 19 13-0124 | LF | Demolish Single Metal Hand Rail, Lead Contaminated Material   | 5.85   |
| 02 83 19 13-0125 | LF | Demolish Metal Railing And Posts, Lead Contaminated Material  | 9.55   |
| 02 83 19 13-0126 | SF | Demolish Metal Picket Fence, Lead Contaminated Material   | 2.63   |
| 02 83 19 13-0127 | SF | Demolish Plywood, Lead Contaminated Material  | 7.19   |
| 02 83 19 13-0128 | SF | Demolish Planks (Various Sizes), Lead Contaminated Material   | 3.51   |
| 02 83 19 13-0129 | EA | Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material                       | 21.94  |
| 02 83 19 13-0130 | SF | Demolish Ceramic Tile Block, Lead Contaminated Material   | 4.79   |
| 02 83 19 13-0131 | LF | Demolish Metal Guard Rails, Lead Contaminated Material  | 13.17  |
| 02 83 19 13-0132 | SF | Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material                                   | 7.02   |
| 02 83 19 13-0133 | SF | Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material                                 | 5.05   |
| 02 83 19 13-0134 | SF | Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material                               | 3.95   |
| 02 83 19 13-0135 | SF | Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material                                      | 3.07   |
| 02 83 19 13-0136 | SF | Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material                                      | 21.94  |
| 02 83 19 13-0137 | SF | Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material                                    | 15.60  |
| 02 83 19 13-0138 | SF | Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material                                  | 11.70  |
| 02 83 19 13-0139 | SF | Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material                               | 8.78   |

**02 83 19 13-0140****Wet Sanding/Light Scraping Of Lead Contaminated Material** (02 83 19 13)

Note: Remove loose, flaking lead-based paint to prepare for painting.

|                  |    |   |      |
|------------------|----|---|------|
| 02 83 19 13-0141 | SF | Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting | 3.34 |
|------------------|----|---|------|

**02 83 19 13-0142****Lead Abatement Encapsulation** (02 83 19 13)

Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

|                  |    |   |      |
|------------------|----|---|------|
| 02 83 19 13-0143 | SF | Balustrades, Lead Abatement Encapsulation                     | 6.11 |
| 02 83 19 13-0144 | LF | Up To 6" Wide, Baseboard, Lead Abatement Encapsulation        | 6.02 |
| 02 83 19 13-0145 | LF | >6" To 12" Wide, Baseboard, Lead Abatement Encapsulation      | 8.18 |
| 02 83 19 13-0146 | SF | Brick, Concrete Block, Concrete, Lead Abatement Encapsulation | 3.94 |
| 02 83 19 13-0147 | SF | Ornate Cabinets, Lead Abatement Encapsulation                 | 8.82 |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 02 83 19 13-0148 | SF  |     | Simple Design Cabinets, Lead Abatement Encapsulation .....                   | 7.19                   |                      |
| 02 83 19 13-0149 | SF  |     | Drywall Ceilings, Lead Abatement Encapsulation .....                         | 2.49                   |                      |
| 02 83 19 13-0150 | SF  |     | Wood Ceilings, Lead Abatement Encapsulation .....                            | 3.01                   |                      |
| 02 83 19 13-0151 | SF  |     | Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation .....          | 2.79                   |                      |
| 02 83 19 13-0152 | SF  |     | Columns, Lead Abatement Encapsulation .....                                  | 4.76                   |                      |
| 02 83 19 13-0153 | SF  |     | Doors, Lead Abatement Encapsulation .....                                    | 9.03                   |                      |
| 02 83 19 13-0154 | LF  |     | Up To 2" Electrical Conduit, Lead Abatement Encapsulation .....              | 3.99                   |                      |
| 02 83 19 13-0155 | SF  |     | Picket Fence (Brush), Lead Abatement Encapsulation .....                     | 2.86                   |                      |
| 02 83 19 13-0156 | SF  |     | Wood Floors (Roller), Lead Abatement Encapsulation .....                     | 2.39                   |                      |
| 02 83 19 13-0157 | SF  |     | Grilles, Vents, Lead Abatement Encapsulation .....                           | 6.59                   |                      |
| 02 83 19 13-0158 | LF  |     | Gutters And Downspouts, Lead Abatement Encapsulation .....                   | 6.11                   |                      |
| 02 83 19 13-0159 | EA  |     | Hangers, Lead Abatement Encapsulation .....                                  | 51.70                  |                      |
| 02 83 19 13-0160 | LF  |     | Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation .....           | 3.71                   |                      |
| 02 83 19 13-0161 | LF  |     | >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation .....          | 5.37                   |                      |
| 02 83 19 13-0162 | LF  |     | >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation .....         | 8.35                   |                      |
| 02 83 19 13-0163 | LF  |     | >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation .....        | 12.32                  |                      |
| 02 83 19 13-0164 | EA  |     | Radiators, Lead Abatement Encapsulation .....                                | 134.86                 |                      |
| 02 83 19 13-0165 | EA  |     | Up To 6' Shutters, Lead Abatement Encapsulation .....                        | 192.13                 |                      |
| 02 83 19 13-0166 | SF  |     | Siding, Lead Abatement Encapsulation .....                                   | 3.40                   |                      |
| 02 83 19 13-0167 | SF  |     | Up To 12" Soffit, Lead Abatement Encapsulation .....                         | 4.76                   |                      |
| 02 83 19 13-0168 | SF  |     | Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation ..... | 3.94                   |                      |
| 02 83 19 13-0169 | SF  |     | Steel Beams And Metal Decks, Lead Abatement Encapsulation .....              | 5.14                   |                      |
| 02 83 19 13-0170 | SF  |     | Trusses, Lead Abatement Encapsulation .....                                  | 5.14                   |                      |
| 02 83 19 13-0171 | SF  |     | Drywall Walls, Lead Abatement Encapsulation .....                            | 2.22                   |                      |
| 02 83 19 13-0172 | SF  |     | Wood Walls, Lead Abatement Encapsulation .....                               | 2.72                   |                      |
| 02 83 19 13-0173 | EA  |     | Window Without Grille, Lead Abatement Encapsulation .....                    | 114.42                 |                      |
| 02 83 19 13-0174 | EA  |     | Window With Grille, Lead Abatement Encapsulation .....                       | 146.99                 |                      |
| 02 83 19 13-0175 | LF  |     | Wood Door Frames And Trim, Lead Abatement Encapsulation .....                | 3.48                   |                      |
| 02 83 19 13-0176 | LF  |     | Steel Lintels, Lead Abatement Encapsulation .....                            | 4.01                   |                      |

**02 83 33 Removal and Disposal of Material Containing Lead (02 83)**

**02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)**

**02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)**

|                  |    |  |  |      |  |
|------------------|----|--|--|------|--|
| 02 83 33 13-0002 | SF |  | High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent .....       | 0.28 |  |
| 02 83 33 13-0003 | SF |  | High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate ..... | 0.29 |  |
| 02 83 33 13-0004 | SF |  | High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting .....                  | 1.38 |  |

**02 84 Polychlorinated Biphenyl Remediation (02 80)**

**02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)**

**02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)**

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

|                  |    |  |   |       |  |
|------------------|----|--|---|-------|--|
| 02 84 16 00-0002 | EA |  | Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling ..... | 12.32 |  |
|------------------|----|--|---|-------|--|

**02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)**

Note: Non-leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

|                  |    |  |   |       |  |
|------------------|----|--|---|-------|--|
| 02 84 16 00-0004 | EA |  | Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....          | 3.19  |  |
| 02 84 16 00-0005 | EA |  | Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures .....         | 4.06  |  |
| 02 84 16 00-0006 | EA |  | Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....  | 9.60  |  |
| 02 84 16 00-0007 | EA |  | Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures ..... | 20.09 |  |

**02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)**

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

|                  |    |  |  |       |  |
|------------------|----|--|--|-------|--|
| 02 84 16 00-0009 | EA |  | Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....  | 5.81  |  |
| 02 84 16 00-0010 | EA |  | Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures ..... | 8.00  |  |
| 02 84 16 00-0011 | EA |  | Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....      | 24.68 |  |
| 02 84 16 00-0012 | EA |  | Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures .....     | 47.91 |  |

**02 84 33 Removal and Disposal of Polychlorinated Biphenyls (02 84)**

**02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled Transformers (02 84 33)**

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.

|                  |    |  |  |          |  |
|------------------|----|--|--|----------|--|
| 02 84 33 00-0002 | EA |  | Removal And Disposal Of Transformers 2.5/3.5 KVA, Non-Polychlorinated Biphenyl (PCB) ..... | 5,254.17 |  |
|                  |    |  | Note: Includes disposal costs.   |          |  |
| 02 84 33 00-0003 | EA |  | Removal And Disposal Of Transformers 20 KVA, Non-Polychlorinated Biphenyl (PCB) .....      | 8,266.07 |  |
|                  |    |  | Note: Includes disposal costs.   |          |  |
| 02 84 33 00-0004 | EA |  | Removal And Disposal Of Switch, Non-Polychlorinated Biphenyl (PCB) .....                   | 2,242.82 |  |

**02 Existing Conditions****02 80 Facility Remediation****02 84 Polychlorinated Biphenyl Remediation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 84 33 00-0005 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB)..... | 9,981.21                  |                         |
| Note: Includes disposal costs.  |                           |                         |
| 02 84 33 00-0006 EA Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB) .....                  | 3,994.29                  |                         |
| 02 84 33 00-0007 EA Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB).....      | 15,758.96                 |                         |
| Note: Includes disposal costs.  |                           |                         |

**02 87 Bio-Hazard Material Remediation (02 80)****02 87 13 Mold Remediation (02 87)**

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)**

|                  |  |        |
|------------------|--|--------|
| 02 87 13 33-0001 | Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)                       |        |
|                  | Note: Treat fittings as additional lf of insulation.   |        |
| 02 87 13 33-0002 | Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)                                    |        |
|                  | Note: Diameter is outer size of insulation.  |        |
| 02 87 13 33-0003 | Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)                  |        |
|                  | Note: Excludes encased fittings.   |        |
| 02 87 13 33-0004 | SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....              | 767.59 |
| 02 87 13 33-0005 | LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....             | 29.93  |
| 02 87 13 33-0006 | LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....            | 22.72  |
| 02 87 13 33-0007 | LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....           | 17.32  |
| 02 87 13 33-0008 | LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....        | 13.26  |
| 02 87 13 33-0009 | LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....                 | 11.68  |
| 02 87 13 33-0010 | >6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)                       |        |
| 02 87 13 33-0011 | SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....                    | 833.46 |
| 02 87 13 33-0012 | LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....                  | 37.54  |
| 02 87 13 33-0013 | LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....                 | 29.26  |
| 02 87 13 33-0014 | LF >500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....               | 23.04  |
| 02 87 13 33-0015 | LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....            | 18.38  |
| 02 87 13 33-0016 | LF >10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....                     | 16.55  |
| 02 87 13 33-0017 | Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)                                      |        |
| 02 87 13 33-0018 | Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)           |        |
| 02 87 13 33-0019 | SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....               | 800.53 |
| 02 87 13 33-0020 | SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....             | 17.67  |
| 02 87 13 33-0021 | SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....          | 13.53  |
| 02 87 13 33-0022 | SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal ..... | 10.42  |
| 02 87 13 33-0023 | SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....                | 8.24   |
| 02 87 13 33-0024 | Surfacing Material, Mold Abatement And Disposal (02 87 13 33)                                      |        |
|                  | Note: e.g. fireproofing, acoustical plaster, etc.  |        |
| 02 87 13 33-0025 | Stucco, Mold Abatement And Disposal (02 87 13 33-0024)   |        |
|                  | Note: Remove surface coat from brown coat or remove entire assembly, including lath.               |        |
| 02 87 13 33-0026 | SET Up To 50 SF, Stucco, Mold Abatement And Disposal .....   | 782.24 |
| 02 87 13 33-0027 | SF >50 To 500 SF, Stucco, Mold Abatement And Disposal .....  | 17.30  |
| 02 87 13 33-0028 | SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal.....                                      | 13.16  |
| 02 87 13 33-0029 | SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal .....                                  | 10.05  |
| 02 87 13 33-0030 | SF >10,000 SF, Stucco, Mold Abatement And Disposal .....   | 7.74   |
| 02 87 13 33-0031 | Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024)                                 |        |
|                  | Note: Remove surface coat from brown coat or remove entire assembly, including lath.               |        |
| 02 87 13 33-0032 | SET Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal .....                             | 782.24 |
| 02 87 13 33-0033 | SF >50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal.....                             | 17.30  |
| 02 87 13 33-0034 | SF >500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal.....                          | 13.16  |
| 02 87 13 33-0035 | SF >2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....                       | 10.05  |
| 02 87 13 33-0036 | SF >10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....                                | 7.74   |
| 02 87 13 33-0037 | Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)                                       |        |
| 02 87 13 33-0038 | SET Up To 100 SF, Gypsum Board, Mold Abatement And Disposal.....                                   | 818.84 |
| 02 87 13 33-0039 | SF >100 To 500 SF, Gypsum Board, Mold Abatement And Disposal.....                                  | 6.09   |
| 02 87 13 33-0040 | SF >500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal .....                               | 4.92   |
| 02 87 13 33-0041 | SF >2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal .....                            | 3.99   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 87 13 33-0042 SF >10,000 SF, Gypsum Board, Mold Abatement And Disposal .....  | 3.06                      |                         |
| <b>02 87 13 33-0043 Fireproofing, Mold Abatement And Disposal</b> (02 87 13 33-0024)   |                           |                         |
| Note: Exposed surface area, includes associated overspray.   |                           |                         |
| 02 87 13 33-0044 SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal .....  | 800.53                    |                         |
| 02 87 13 33-0045 SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal .....   | 23.94                     |                         |
| 02 87 13 33-0046 SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal .....  | 18.25                     |                         |
| 02 87 13 33-0047 SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal .....   | 13.96                     |                         |
| 02 87 13 33-0048 SF >10,000 SF, Fireproofing, Mold Abatement And Disposal .....  | 10.75                     |                         |
| <b>02 87 13 33-0049 Flooring, Mold Abatement And Disposal</b> (02 87 13 33)  |                           |                         |
| Note: Includes cove base.  |                           |                         |
| <b>02 87 13 33-0050 Floor Tile Or Linoleum, Mold Abatement And Disposal</b> (02 87 13 33-0049)   |                           |                         |
| <b>02 87 13 33-0051 Floor Tile Or Linoleum, Mold Abatement And Disposal</b> (02 87 13 33-0050)   |                           |                         |
| Note: Single layer or first of multiple layers.  |                           |                         |
| 02 87 13 33-0052 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....       | 818.84                    |                         |
| 02 87 13 33-0053 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....      | 6.05                      |                         |
| For Each Additional Layer, Add   |                           |                         |
| 02 87 13 33-0054 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....    | 3.60                      |                         |
| For Each Additional Layer, Add   |                           |                         |
| 02 87 13 33-0055 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal ..... | 2.28                      |                         |
| For Each Additional Layer, Add   |                           |                         |
| 02 87 13 33-0056 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....          | 1.88                      |                         |
| For Each Additional Layer, Add   |                           |                         |
| <b>02 87 13 33-0057 Carpet, Mold Abatement And Disposal</b> (02 87 13 33-0049)   |                           |                         |
| <b>02 87 13 33-0058 Carpet, Glue Down, Mold Abatement And Disposal</b> (02 87 13 33-0057)  |                           |                         |
| 02 87 13 33-0059 SET Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal .....  | 818.84                    |                         |
| 02 87 13 33-0060 SF >100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal .....   | 5.12                      |                         |
| 02 87 13 33-0061 SF >500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal .....   | 3.40                      |                         |
| 02 87 13 33-0062 SF >2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal .....  | 2.43                      |                         |
| 02 87 13 33-0063 SF >10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal .....   | 1.98                      |                         |
| <b>02 87 13 33-0064 Carpet, Padded With Tack Strips, Mold Abatement And Disposal</b> (02 87 13 33-0057)                                      |                           |                         |
| 02 87 13 33-0065 SET Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal .....   | 818.84                    |                         |
| Note: Includes tack strips.  |                           |                         |
| 02 87 13 33-0066 SF >100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal .....  | 5.70                      |                         |
| Note: Includes tack strips.  |                           |                         |
| 02 87 13 33-0067 SF >500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal .....  | 4.28                      |                         |
| Note: Includes tack strips.  |                           |                         |
| 02 87 13 33-0068 SF >2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal .....   | 3.49                      |                         |
| Note: Includes tack strips.  |                           |                         |
| 02 87 13 33-0069 SF >10,000 SF, Carpet And Pad, Mold Abatement And Disposal .....  | 2.81                      |                         |
| Note: Includes tack strips.  |                           |                         |
| <b>02 87 13 33-0070 Subflooring, Mold Abatement And Disposal</b> (02 87 13 33-0049)  |                           |                         |
| 02 87 13 33-0071 SET Up To 75 SF, Subflooring, Mold Abatement And Disposal .....   | 800.53                    |                         |
| 02 87 13 33-0072 SF >75 To 500 SF, Subflooring, Mold Abatement And Disposal .....  | 6.90                      |                         |
| 02 87 13 33-0073 SF >500 To 2,500 SF, Subflooring, Mold Abatement And Disposal .....   | 4.59                      |                         |
| 02 87 13 33-0074 SF >2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal .....  | 2.96                      |                         |
| 02 87 13 33-0075 SF >10,000 SF, Subflooring, Mold Abatement And Disposal .....   | 2.06                      |                         |
| <b>02 87 13 33-0076 Siding, Mold Abatement And Disposal</b> (02 87 13 33)  |                           |                         |
| <b>02 87 13 33-0077 Interior Paneling, Mold Abatement And Disposal</b> (02 87 13 33-0076)  |                           |                         |
| Note: Includes detachment of mounted objects before removal.   |                           |                         |
| 02 87 13 33-0078 SET Up To 100 SF, Interior Paneling, Mold Abatement And Disposal .....  | 818.84                    |                         |
| Note: Includes detachment of mounted objects before removal.   |                           |                         |
| 02 87 13 33-0079 SF >100 To 500 SF, Interior Paneling, Mold Abatement And Disposal .....   | 6.04                      |                         |
| Note: Includes detachment of mounted objects before removal.   |                           |                         |
| 02 87 13 33-0080 SF >500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal .....   | 4.39                      |                         |
| Note: Includes detachment of mounted objects before removal.   |                           |                         |
| 02 87 13 33-0081 SF >2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal .....  | 2.75                      |                         |
| Note: Includes detachment of mounted objects before removal.   |                           |                         |
| 02 87 13 33-0082 SF >10,000 SF, Interior Paneling, Mold Abatement And Disposal .....   | 2.22                      |                         |
| Note: Includes detachment of mounted objects before removal.   |                           |                         |
| <b>02 87 13 33-0083 Exterior Siding, Mold Abatement And Disposal</b> (02 87 13 33-0076)  |                           |                         |
| 02 87 13 33-0084 SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal .....  | 818.84                    |                         |
| 02 87 13 33-0085 SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal .....   | 7.39                      |                         |
| 02 87 13 33-0086 SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal .....   | 5.28                      |                         |



**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 02 87 13 33-0087        | SF  |     | >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal .....   | 3.71                   |                      |
| 02 87 13 33-0088        | SF  |     | >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal .....  | 3.40                   |                      |
| <b>02 87 13 33-0089</b> |     |     | <b>Contaminated Debris, Mold Abatement And Disposal</b> (02 87 13 33)   |                        |                      |
| <b>02 87 13 33-0090</b> |     |     | <b>Contaminated Debris, Mold Abatement And Disposal</b> (02 87 13 33-0089)  |                        |                      |
| 02 87 13 33-0091        | SET |     | Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....  | 833.46                 |                      |
| 02 87 13 33-0092        | CF  |     | >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal.....  | 30.18                  |                      |
| 02 87 13 33-0093        | CF  |     | >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal .....  | 21.58                  |                      |
| 02 87 13 33-0094        | CF  |     | >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal .....  | 17.28                  |                      |
| 02 87 13 33-0095        | CF  |     | >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal .....  | 14.70                  |                      |
| 02 87 13 33-0096        | CF  |     | >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal .....   | 10.02                  |                      |
| 02 87 13 33-0097        | CF  |     | >10,000 CF, Contaminated Debris, Mold Abatement And Disposal .....  | 9.45                   |                      |
| <b>02 87 13 33-0098</b> |     |     | <b>Other Mold Containing Materials, Mold Abatement And Disposal</b> (02 87 13 33)   |                        |                      |
| <b>02 87 13 33-0099</b> |     |     | <b>Wood Studs, Mold Abatement And Disposal</b> (02 87 13 33-0098)   |                        |                      |
|                         |     |     | Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.   |                        |                      |
| 02 87 13 33-0100        | SET |     | Up To 100 LF, Wood Studs, Mold Abatement And Disposal .....   | 409.40                 |                      |
| 02 87 13 33-0101        | LF  |     | >100 To 500 LF, Wood Studs, Mold Abatement And Disposal.....  | 3.37                   |                      |
| 02 87 13 33-0102        | LF  |     | >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal.....  | 2.57                   |                      |
| 02 87 13 33-0103        | LF  |     | >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal.....   | 2.06                   |                      |
| 02 87 13 33-0104        | LF  |     | >10,000 LF, Wood Studs, Mold Abatement And Disposal .....   | 1.62                   |                      |
| <b>02 87 13 33-0105</b> |     |     | <b>Ceiling Tile, Mold Abatement And Disposal</b> (02 87 13 33-0098)   |                        |                      |
|                         |     |     | Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.   |                        |                      |
| 02 87 13 33-0106        | SET |     | Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal.....  | 818.84                 |                      |
| 02 87 13 33-0107        | SF  |     | >100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal .....   | 10.05                  |                      |
| 02 87 13 33-0108        | SF  |     | >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal .....   | 4.98                   |                      |
| 02 87 13 33-0109        | SF  |     | >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal .....  | 3.71                   |                      |
| 02 87 13 33-0110        | SF  |     | >10,000 To 25,000 SF, Ceiling Tile, Mold Abatement And Disposal .....   | 3.67                   |                      |
| 02 87 13 33-0111        | SF  |     | >25,000 To 50,000 SF, Ceiling Tile, Mold Abatement And Disposal .....   | 3.60                   |                      |
| 02 87 13 33-0112        | SF  |     | >50,000 To 100,000 SF, Ceiling Tile, Mold Abatement And Disposal .....  | 3.21                   |                      |
| 02 87 13 33-0113        | SF  |     | >100,000 SF, Ceiling Tile, Mold Abatement And Disposal .....  | 2.86                   |                      |
| <b>02 87 13 33-0114</b> |     |     | <b>Caulking, Mold Abatement And Disposal</b> (02 87 13 33-0098)   |                        |                      |
| 02 87 13 33-0115        | SET |     | Up To 20 LF, Caulking, Mold Abatement And Disposal.....   | 187.63                 |                      |
| 02 87 13 33-0116        | LF  |     | >20 To 50 LF, Caulking, Mold Abatement And Disposal .....   | 3.79                   |                      |
| 02 87 13 33-0117        | LF  |     | >50 To 100 LF, Caulking, Mold Abatement And Disposal .....  | 2.73                   |                      |
| 02 87 13 33-0118        | LF  |     | >100 To 250 LF, Caulking, Mold Abatement And Disposal .....   | 2.07                   |                      |
| 02 87 13 33-0119        | LF  |     | >250 To 1,000 LF, Caulking, Mold Abatement And Disposal .....   | 1.55                   |                      |
| 02 87 13 33-0120        | LF  |     | >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal.....  | 1.26                   |                      |
| 02 87 13 33-0121        | LF  |     | >2,500 LF, Caulking, Mold Abatement And Disposal.....   | 1.09                   |                      |
| <b>02 87 13 33-0122</b> |     |     | <b>Wipe Down Walls, Ceilings And Floors</b> (02 87 13 33-0098)  |                        |                      |
| 02 87 13 33-0123        | CSF |     | Wipe Down Floors With Mild Bleach Solution.....   | 20.73                  |                      |
|                         |     |     | For >25 To 50, Deduct   | -2.07                  |                      |
|                         |     |     | For >50 To 200, Deduct  | -5.18                  |                      |
|                         |     |     | For >200, Deduct  | -8.28                  |                      |
| 02 87 13 33-0124        | CSF |     | Wipe Down Walls With Mild Bleach Solution .....   | 24.39                  |                      |
|                         |     |     | For >25 To 50, Deduct   | -2.44                  |                      |
|                         |     |     | For >50 To 200, Deduct  | -6.09                  |                      |
|                         |     |     | For >200, Deduct  | -9.75                  |                      |
| 02 87 13 33-0125        | CSF |     | Wipe Down Ceilings With Mild Bleach Solution .....  | 27.74                  |                      |
|                         |     |     | For >25 To 50, Deduct   | -2.77                  |                      |
|                         |     |     | For >50 To 200, Deduct  | -6.93                  |                      |
|                         |     |     | For >200, Deduct  | -11.09                 |                      |
| 02 87 13 33-0126        | CSF |     | Wipe Down Countertops With Mild Bleach Solution .....   | 22.61                  |                      |
|                         |     |     | For >25 To 50, Deduct   | -2.26                  |                      |
| 02 87 13 33-0127        | CSF |     | Wipe Down Other Surfaces With Mild Bleach Solution.....   | 28.70                  |                      |
|                         |     |     | For >25 To 50, Deduct   | -2.87                  |                      |
|                         |     |     | For >50 To 200, Deduct  | -7.17                  |                      |
|                         |     |     | For >200, Deduct  | -11.47                 |                      |
| <b>02 87 13 33-0128</b> |     |     | <b>Cabinets</b> (02 87 13 33-0098)  |                        |                      |
| 02 87 13 33-0129        | SET |     | Up To 10 LF, Base Cabinet, Mold Abatement And Disposal .....  | 982.97                 |                      |
| 02 87 13 33-0130        | LF  |     | >10 To 20 LF, Base Cabinet, Mold Abatement And Disposal.....  | 102.80                 |                      |
| 02 87 13 33-0131        | LF  |     | >20 LF, Base Cabinet, Mold Abatement And Disposal.....  | 80.31                  |                      |
| 02 87 13 33-0132        | SET |     | Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal.....   | 851.24                 |                      |
| 02 87 13 33-0133        | LF  |     | >10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal .....   | 80.62                  |                      |
| 02 87 13 33-0134        | LF  |     | >20 LF, Wall Cabinet, Mold Abatement And Disposal .....   | 58.14                  |                      |
| <b>02 87 16</b>         |     |     | <b>Excrement Removal</b> (02 87)  |                        |                      |
|                         |     |     | Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.

**02 87 16 13 Bird Excrement Removal (02 87 16)**

**02 87 16 13-0001 Bird Waste Removal (02 87 16 13)**

Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.

|                  |    |   |                  |
|------------------|----|---|------------------|
| 02 87 16 13-0002 | EA | Up To 10 SF Bird Waste Removal, Up To 3" Thickness<br>For Work In Restricted Working Space, Add         | 745.64<br>223.69 |
| 02 87 16 13-0003 | SF | >10 To 500 SF Bird Waste Removal, Up To 3" Thickness<br>For Work In Restricted Working Space, Add       | 12.43<br>3.73    |
| 02 87 16 13-0004 | SF | >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness<br>For Work In Restricted Working Space, Add    | 11.30<br>3.39    |
| 02 87 16 13-0005 | SF | >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness<br>For Work In Restricted Working Space, Add | 10.27<br>3.08    |
| 02 87 16 13-0006 | SF | >10,000 SF Bird Waste Removal, Up To 3" Thickness<br>For Work In Restricted Working Space, Add          | 9.33<br>2.80     |

**02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)**

**02 87 19 00-0001 Temporary Barriers (02 87 19)**

**02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)**

Note: Panels are opal or transparent. Includes self-leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.

|                  |    |  |          |
|------------------|----|--|----------|
| 02 87 19 00-0003 | EA | 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000)   | 1,028.47 |
| 02 87 19 00-0004 | EA | 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001)   | 976.40   |
| 02 87 19 00-0005 | EA | 2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002)   | 768.11   |
| 02 87 19 00-0006 | EA | 2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1)                 | 889.61   |
| 02 87 19 00-0007 | EA | 6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005)   | 470.84   |
| 02 87 19 00-0008 | EA | 12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006)  | 505.55   |
| 02 87 19 00-0009 | EA | 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010)<br>Note: Includes a hydraulic closer and a lever style lockset standard.    | 1,575.21 |
| 02 87 19 00-0010 | EA | 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003)<br>Note: Includes a hydraulic closer and a lever style lockset standard.    | 1,748.78 |
| 02 87 19 00-0011 | EA | 4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008)<br>Note: Includes a hydraulic closer and a lever style lockset standard. | 2,095.92 |
| 02 87 19 00-0012 | EA | 7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004)  | 345.55   |
| 02 87 19 00-0013 | EA | 7'-8" To 10' High, Outside Corner Post (Edge Guard 4007)   | 284.81   |
| 02 87 19 00-0014 | EA | 7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009)  | 284.81   |
| 02 87 19 00-0015 | EA | Closure Strips (Edge Guard 3003)<br>Note: To seal panels to existing walls   | 19.27    |
| 02 87 19 00-0016 | EA | Digital Differential Pressure Gauge Kit (Edge Guard 3005)  | 483.44   |

**02 87 19 00-0017 Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)**

Note: Includes removal and disposal in approved landfill after use.

|                  |    |  |      |
|------------------|----|--|------|
| 02 87 19 00-0018 | SF | 6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control   | 0.59 |
| 02 87 19 00-0019 | SF | 6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control  | 0.79 |
| 02 87 19 00-0020 | SF | 6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control                                       | 1.06 |
| 02 87 19 00-0021 | SF | 6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control             | 0.70 |
| 02 87 19 00-0022 | SF | 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control    | 0.90 |
| 02 87 19 00-0023 | SF | 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control | 1.17 |

**02 87 19 00-0024 Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)**

Note: Includes removal after use.

|                  |    |   |      |
|------------------|----|---|------|
| 02 87 19 00-0025 | SF | 1/8" Thick, Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control | 1.95 |
| 02 87 19 00-0026 | SF | 1/2" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control  | 1.97 |
| 02 87 19 00-0027 | SF | 3/4" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control  | 2.32 |

**02 87 19 00-0028 Temporary Stud Wall For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)**

Note: Includes removal after use.

|                  |    |   |      |
|------------------|----|---|------|
| 02 87 19 00-0029 | SF | 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control                       | 6.68 |
| 02 87 19 00-0030 | SF | 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control                     | 9.25 |
| 02 87 19 00-0031 | SF | 5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control       | 6.85 |
| 02 87 19 00-0032 | SF | 5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control     | 9.58 |
| 02 87 19 00-0033 | SF | 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control | 3.91 |

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 02 87 19 00-0034 |     |     | <b>Isolation Barriers For Bio-Hazard And Infectious Disease Control</b> (02 87 19 00-0001)   |                        |                      |
| 02 87 19 00-0035 | GSF |     | Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control ..... 26.56<br>Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airlock.   | 26.56                  |                      |
| 02 87 19 00-0036 | GSF |     | Relocate Tent Construction To Different Area ..... 3.05  | 3.05                   |                      |
| 02 87 19 00-0037 |     |     | <b>Plexiglass Barriers For Bio-Hazard And Infectious Disease Control</b> (02 87 19 00-0001)  |                        |                      |
| 02 87 19 00-0038 | SF  |     | 3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control ..... 22.29  | 22.29                  |                      |
| 02 87 19 00-0039 | SF  |     | 1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control ..... 26.27  | 26.27                  |                      |
| 02 87 19 00-0040 | SF  |     | 3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control ..... 36.91  | 36.91                  |                      |
| 02 87 19 00-0041 | PR  |     | Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control ..... 1,475.38<br>Note: Excludes gloves.  | 1,475.38               |                      |
| 02 87 19 00-0042 | PR  |     | Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control ..... 528.76<br>Note: For installation in glove iris port.   | 528.76                 |                      |
| 02 87 19 00-0043 | PR  |     | Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control ..... 842.54<br>Note: For installation in glove iris port.  | 842.54                 |                      |
| 02 87 19 00-0044 | EA  |     | 5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease ..... 154.59<br>Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm). | 154.59                 |                      |
| 02 87 19 00-0045 |     |     | <b>Temporary Portable And Mobile Trailers</b> (02 87 19)   |                        |                      |
| 02 87 19 00-0046 |     |     | <b>Trailer Delivery</b> (02 87 19 00-0045)   |                        |                      |
| 02 87 19 00-0047 | EA  |     | Deliver Trailer Within 25 Miles ..... 1,205.07   | 1,205.07               |                      |
| 02 87 19 00-0048 |     |     | <b>Portable And Mobile Trailers, Purchase</b> (02 87 19 00-0045)   |                        |                      |
|                  |     |     | Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.   |                        |                      |
| 02 87 19 00-0049 | EA  |     | 8' x 24' Mobile Trailer With Toilet, Purchase ..... 12,937.46<br>For Tie-Downs, Add 128.53   | 12,937.46              |                      |
| 02 87 19 00-0050 | EA  |     | 8' x 32' Mobile Trailer With Toilet, Purchase ..... 18,275.64<br>For Tie-Downs, Add 128.53   | 18,275.64              |                      |
| 02 87 19 00-0051 | EA  |     | 10' x 36' Mobile Trailer With Toilet, Purchase ..... 26,073.38<br>For Tie-Downs, Add 128.53  | 26,073.38              |                      |
| 02 87 19 00-0052 | EA  |     | 10' x 44' Mobile Trailer With Toilet, Purchase ..... 32,578.63<br>For Tie-Downs, Add 128.53  | 32,578.63              |                      |
| 02 87 19 00-0053 | EA  |     | 10' x 50' Mobile Trailer With Toilet, Purchase ..... 37,037.93<br>For Tie-Downs, Add 128.53  | 37,037.93              |                      |
| 02 87 19 00-0054 | EA  |     | 12' x 50' Mobile Trailer With Toilet, Purchase ..... 38,939.29<br>For Tie-Downs, Add 128.53  | 38,939.29              |                      |
| 02 87 19 00-0055 | EA  |     | 12' x 60' Mobile Trailer With Toilet, Purchase ..... 43,327.53<br>For Tie-Downs, Add 128.53  | 43,327.53              |                      |
| 02 87 19 00-0056 |     |     | <b>Accessories For Portable And Mobile Trailers</b> (02 87 19 00-0045)   |                        |                      |
| 02 87 19 00-0057 |     |     | <b>Skirting</b> (02 87 19 00-0056)   |                        |                      |
|                  |     |     | Note: Includes 2" x 4" wood framing 16" on center.   |                        |                      |
| 02 87 19 00-0058 | SF  |     | 1'-8" High Vinyl Covered Skirt ..... 5.47  | 5.47                   | 2.17                 |
| 02 87 19 00-0059 | SF  |     | 3' High Vinyl Covered Skirt ..... 8.04   | 8.04                   | 3.58                 |
| 02 87 19 00-0060 |     |     | <b>Aluminum Modular Access Ramp</b> (02 87 19 00-0056)   |                        |                      |
|                  |     |     | Note: Includes picketed guardrails, inside grabrails, legs and hardware.   |                        |                      |
| 02 87 19 00-0061 | EA  |     | Up To 35" High, Aluminum Modular Access Ramp ..... 3,784.31  | 3,784.31               | 41.56                |
| 02 87 19 00-0062 |     |     | <b>Aluminum Modular Stairs</b> (02 87 19 00-0056)  |                        |                      |
|                  |     |     | Note: Excludes earthwork   |                        |                      |
| 02 87 19 00-0063 | EA  |     | Aluminum Steps For Mobile Trailers ..... 1,046.54  | 1,046.54               |                      |
| 02 87 19 00-0064 |     |     | <b>Decontamination Chambers For Bio-Hazard And Infectious Disease Control</b> (02 87 19)   |                        |                      |
|                  |     |     | Note: Includes removal after use.  |                        |                      |
| 02 87 19 00-0065 | EA  |     | Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control ..... 1,017.14<br>Note: Includes connection to negative air system.   | 1,017.14               |                      |
| 02 87 19 00-0066 | EA  |     | Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control ..... 1,199.10<br>Note: Includes connection to negative air system.   | 1,199.10               |                      |
| 02 87 19 00-0067 | EA  |     | Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control ..... 623.19<br>Note: Includes connection to negative air system.  | 623.19                 |                      |



|  |              |           |
|--|--------------|-----------|
| <b>Existing Conditions</b>             | <b>02</b>    | <b>02</b> |
| <b>Facility Remediation</b>            | <b>02 80</b> |           |
| <b>Bio-Hazard Material Remediation</b> | <b>02 87</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 87 19 00-0068 <b>Bio-Hazard And Infectious Disease Control Cleaning, Level 2</b> <small>(02 87 19)</small><br>Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill. |                           |                         |
| 02 87 19 00-0069 <b>Bio-Hazard And Infectious Disease Control Cleaning Mobilization</b> <small>(02 87 19 00-0068)</small>   |                           |                         |
| 02 87 19 00-0070 EA Bio-Hazard And Infectious Disease Control Mobilization And Set-Up ..... 400.87<br>Note: Mobilization and set-up minimum for each site location.   | 400.87                    |                         |
| 02 87 19 00-0071 <b>Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces</b> <small>(02 87 19 00-0068)</small><br>Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces  |                           |                         |
| 02 87 19 00-0072 CSF Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 29.73<br>For >25 To 50, Deduct -2.97<br>For >50 To 200, Deduct -5.94<br>For >200, Deduct -8.91<br>For Cleaning Surfaces With Goldshield® GS5, Add 14.46<br>For Level 1 Biohazard Cleaning, Deduct -5.94<br>For Level 3 Biohazard Cleaning, Add 9.80   | 29.73                     |                         |
| 02 87 19 00-0073 CSF Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 34.96<br>For >25 To 50, Deduct -3.49<br>For >50 To 200, Deduct -6.99<br>For >200, Deduct -10.48<br>For Cleaning Surfaces With Goldshield® GS5, Add 14.46<br>For Level 1 Biohazard Cleaning, Deduct -6.99<br>For Level 3 Biohazard Cleaning, Add 11.53  | 34.96                     |                         |
| 02 87 19 00-0074 CSF Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 39.77<br>For >25 To 50, Deduct -3.97<br>For >50 To 200, Deduct -7.95<br>For >200, Deduct -11.92<br>For Cleaning Surfaces With Goldshield® GS5, Add 14.46<br>For Level 1 Biohazard Cleaning, Deduct -7.95<br>For Level 3 Biohazard Cleaning, Add 13.11   | 39.77                     |                         |
| 02 87 19 00-0075 CSF Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 32.42<br>For Cleaning Surfaces With Goldshield® GS5, Add 14.46<br>For >5 To 10, Deduct -1.62<br>For >10 To 50, Deduct -3.24<br>For >50, Deduct -6.48<br>For Level 1 Biohazard Cleaning, Deduct -6.48<br>For Level 3 Biohazard Cleaning, Add 10.69  | 32.42                     |                         |
| 02 87 19 00-0076 CSF Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 41.15<br>For >25 To 50, Deduct -4.11<br>For >50 To 200, Deduct -8.22<br>For >200, Deduct -12.34<br>For Cleaning Surfaces With Goldshield® GS5, Add 14.46<br>For Level 1 Biohazard Cleaning, Deduct -8.22<br>For Level 3 Biohazard Cleaning, Add 13.57   | 41.15                     |                         |
| 02 87 19 00-0077 <b>Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials</b> <small>(02 87 19 00-0068)</small><br>Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect   |                           |                         |
| 02 87 19 00-0078 EA Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 76.81<br>For Level 1 Biohazard Cleaning, Deduct -15.36<br>For Level 3 Biohazard Cleaning, Add 25.34<br>For Cleaning Surfaces With Goldshield® GS5, Add 7.23  | 76.81                     |                         |
| 02 87 19 00-0079 EA Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 35.25<br>For Level 1 Biohazard Cleaning, Deduct -7.04<br>For Level 3 Biohazard Cleaning, Add 11.62<br>For Cleaning Surfaces With Goldshield® GS5, Add 4.82   | 35.25                     |                         |
| 02 87 19 00-0080 EA Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 123.74<br>For Level 1 Biohazard Cleaning, Deduct -24.74<br>For Level 3 Biohazard Cleaning, Add 40.82<br>For Cleaning Surfaces With Goldshield® GS5, Add 7.23  | 123.74                    |                         |
| 02 87 19 00-0081 EA Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution ..... 7.64<br>For Level 1 Biohazard Cleaning, Deduct -1.52<br>For Level 3 Biohazard Cleaning, Add 2.51<br>For Cleaning Surfaces With Goldshield® GS5, Add 1.45   | 7.64                      |                         |
| 02 87 19 00-0082 EA Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up ..... 114.07<br>Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers<br>For Level 1 Biohazard Cleaning, Deduct -22.81<br>For Level 3 Biohazard Cleaning, Add 37.63<br>For Cleaning Surfaces With Goldshield® GS5, Add 7.23  | 114.07                    |                         |

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 02 87 19 00-0083        | EA  |     | Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution<br>Clean-up.....  | 12.19                  |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 4.01                   |                      |
|                         |     |     | <i>For Cleaning Surfaces With Goldshield® GS5, Add</i>  | 1.45                   |                      |
| <b>02 87 19 00-0084</b> |     |     | <b>Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork</b> (02 87 19 00-0068)  |                        |                      |
| 02 87 19 00-0085        | LF  |     | Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control<br>Cleaning.....   | 4.48                   |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -0.89                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 1.47                   |                      |
| 02 87 19 00-0086        | LF  |     | >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control<br>Cleaning.....  | 5.63                   |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -1.11                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 1.84                   |                      |
| 02 87 19 00-0087        | LF  |     | >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control<br>Cleaning.....  | 7.54                   |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -1.48                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 2.45                   |                      |
| 02 87 19 00-0088        | LF  |     | >8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....   | 10.68                  |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -2.09                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 3.45                   |                      |
| 02 87 19 00-0089        | EA  |     | Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning.....   | 200.46                 |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -40.09                 |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 66.14                  |                      |
| 02 87 19 00-0090        | SF  |     | Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning.....  | 13.95                  |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -2.78                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 4.59                   |                      |
| 02 87 19 00-0091        | EA  |     | Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control<br>Cleaning.....  | 133.65                 |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -26.72                 |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 44.09                  |                      |
| 02 87 19 00-0092        | EA  |     | Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning.....  | 400.90                 |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -80.17                 |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 132.29                 |                      |
| 02 87 19 00-0093        | EA  |     | Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning.....<br>Note: Includes removal and reinstallation.  | 33.43                  |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -6.68                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 11.02                  |                      |
| 02 87 19 00-0094        | SF  |     | Apply Sporidicin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease<br>Control Cleaning.....  | 0.60                   |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -0.11                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 0.18                   |                      |
| 02 87 19 00-0095        | SF  |     | Apply Goldshield® GS5 Anti-microbial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And<br>Infectious Disease Control Cleaning.....   | 0.68                   |                      |
|                         |     |     | <i>For Level 1 Biohazard Cleaning, Deduct</i>   | -0.11                  |                      |
|                         |     |     | <i>For Level 3 Biohazard Cleaning, Add</i>  | 0.18                   |                      |
| <b>02 87 19 00-0096</b> |     |     | <b>Bio-Hazard And Infectious Disease Control Equipment Rental</b> (02 87 19)  |                        |                      |
|                         |     |     | Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard<br>And Infectious Control Clean Up sections.  |                        |                      |
| 02 87 19 00-0097        | DAY |     | Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....   | 163.58                 |                      |
| 02 87 19 00-0098        | WK  |     | Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....   | 696.73                 |                      |
| 02 87 19 00-0099        | MO  |     | Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....   | 1,950.84               |                      |
| 02 87 19 00-0100        | DAY |     | Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-<br>up.....  | 154.91                 |                      |
| 02 87 19 00-0101        | WK  |     | Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-<br>up.....  | 426.01                 |                      |
| 02 87 19 00-0102        | MO  |     | Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-<br>up.....  | 1,161.83               |                      |
| 02 87 19 00-0103        | DAY |     | Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....  | 45.56                  |                      |
| 02 87 19 00-0104        | WK  |     | Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....  | 125.30                 |                      |
| 02 87 19 00-0105        | MO  |     | Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....  | 341.72                 |                      |
| 02 87 19 00-0106        | DAY |     | Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter<br>For Bio-Hazard And Infectious Disease Control Clean-up.....  | 120.46                 |                      |
| 02 87 19 00-0107        | WK  |     | Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter<br>For Bio-Hazard And Infectious Disease Control Clean-up.....  | 494.73                 |                      |
| 02 87 19 00-0108        | MO  |     | Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter<br>For Bio-Hazard And Infectious Disease Control Clean-up.....  | 1,494.94               |                      |
| 02 87 19 00-0109        | EA  |     | High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio-<br>Hazard And Infectious Disease Control Clean-up.....<br>Note: Required if over 800 hours operation. | 199.93                 |                      |
| 02 87 19 00-0110        | DAY |     | 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 432.03                 |                      |
| 02 87 19 00-0111        | WK  |     | 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 864.07                 |                      |
| 02 87 19 00-0112        | MO  |     | 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 1,728.13               |                      |
| 02 87 19 00-0113        | DAY |     | 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 576.04                 |                      |
| 02 87 19 00-0114        | WK  |     | 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 1,152.09               |                      |
| 02 87 19 00-0115        | MO  |     | 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 2,304.18               |                      |
| 02 87 19 00-0116        | DAY |     | 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 972.69                 |                      |
| 02 87 19 00-0117        | WK  |     | 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 1,945.37               |                      |
| 02 87 19 00-0118        | MO  |     | 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 3,890.75               |                      |
| 02 87 19 00-0119        | DAY |     | 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 1,296.92               |                      |



|  |              |           |
|--|--------------|-----------|
| <b>Existing Conditions</b>             | <b>02</b>    | <b>02</b> |
| <b>Facility Remediation</b>            | <b>02 80</b> |           |
| <b>Bio-Hazard Material Remediation</b> | <b>02 87</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 2,593.83                  |                         |
| 02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 5,187.66                  |                         |
| 02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....  | 1,621.14                  |                         |
| 02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....   | 3,242.29                  |                         |
| 02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....   | 6,484.58                  |                         |
| 02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....<br>Note: Includes staking down tent.  | 122.26                    |                         |
| 02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....<br>Note: Includes staking down tent.  | 244.53                    |                         |
| 02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....<br>Note: Includes staking down tent.  | 733.58                    |                         |
| 02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....<br>Note: Includes staking down tent.  | 1,467.16                  |                         |
| 02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....<br>Note: Includes staking down tent.   | 2,445.27                  |                         |
| 02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....  | 94.47                     |                         |
| 02 87 19 00-0131 WK Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....   | 259.80                    |                         |
| 02 87 19 00-0132 MO Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....   | 708.53                    |                         |
| <b>02 87 19 00-0133 Bio-Hazard And Infectious Disease Control Hauling By Truck (02 87 19)</b><br>Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck. |                           |                         |
| 02 87 19 00-0134 EA Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up.....<br>Note: Each first 15 miles per trip   | 106.72                    |                         |
| For Each Additional Mile Over First 15 Miles, Add Per Mile  | 1.33                      |                         |
| 02 87 19 00-0135 EA Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up.....<br>Note: Each first 15 miles per trip   | 174.12                    |                         |
| For Each Additional Mile Over First 15 Miles, Add Per Mile  | 2.18                      |                         |
| 02 87 19 00-0136 EA Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up.....<br>Note: Each first 15 miles per trip   | 180.01                    |                         |
| For Each Additional Mile Over First 15 Miles, Add Per Mile  | 2.25                      |                         |
| 02 87 19 00-0137 EA Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up.....<br>Note: Each first 15 miles per trip  | 178.54                    |                         |
| For Each Additional Mile Over First 15 Miles, Add Per Mile  | 2.23                      |                         |
| <b>02 87 19 00-0138 Bio-Hazard And Infectious Disease Control Disposal (02 87 19)</b><br>Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.  |                           |                         |
| 02 87 19 00-0139 CY Bio-Hazard And Infectious Disease Control Landfill Dump Fee.....  | 118.56                    |                         |
| <b>02 87 19 00-0140 BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters (02 87 19)</b><br>Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.  |                           |                         |
| 02 87 19 00-0141 EA 20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P).....  | 44,973.14                 |                         |
| 02 87 19 00-0142 EA 7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST).....   | 4,323.42                  |                         |
| 02 87 19 00-0143 EA Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04).....   | 7,153.52                  |                         |
| 02 87 19 00-0144 SF Sub Flooring For Medical Shelter (AKS-AB846).....   | 6.68                      |                         |
| 02 87 19 00-0145 EA Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5).....  | 1,963.48                  |                         |
| 02 87 19 00-0146 EA Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5).....   | 32,159.53                 |                         |
| 02 87 19 00-0147 EA 3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915).....  | 1,120.94                  |                         |
| 02 87 19 00-0148 EA Negative Pressure Isolation (NPI) System (AK-NPIS-5).....<br>Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case  | 50,618.56                 |                         |
| 02 87 19 00-0149 EA 6' Step Ladder (AKS-AC595).....   | 305.31                    |                         |
| 02 87 19 00-0150 EA 10 Lbs Sledgehammer (AKS-AA268).....  | 92.51                     |                         |
| <b>02 87 19 00-0151 Bio-Hazard And Infectious Disease Time And Material Tasks (02 87 19)</b><br>Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.   |                           |                         |
| <b>02 87 19 00-0152 Bio-Hazard And Infectious Disease Control Labor (02 87 19 00-0151)</b><br>Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.   |                           |                         |
| 02 87 19 00-0153 HR General Laborer For Bio-Hazard And Infectious Disease Control Clean Up.....   | 100.51                    |                         |
| 02 87 19 00-0154 HR Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up.....   | 150.92                    |                         |
| 02 87 19 00-0155 HR Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up.....  | 101.65                    |                         |
| 02 87 19 00-0156 HR Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up.....  | 122.22                    |                         |
| 02 87 19 00-0157 HR Project Manager For Bio-Hazard And Infectious Disease Control Clean Up.....   | 134.42                    |                         |
| <b>02 87 19 00-0158 Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment (02 87 19 00-0151)</b><br>Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.  |                           |                         |
| 02 87 19 00-0159 EA Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....   | 15.08                     |                         |

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 87 19 00-0160 EA Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....  | 23.49                     |                         |
| 02 87 19 00-0161 PR Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....  | 15.22                     |                         |
| 02 87 19 00-0162 EA Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....  | 124.85                    |                         |
| 02 87 19 00-0163 EA Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....   | 52.70                     |                         |
| 02 87 19 00-0164 EA Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....   | 380.90                    |                         |
| Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension   |                           |                         |
| 02 87 19 00-0165 EA 14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....   | 52.07                     |                         |
| Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010  |                           |                         |
| 02 87 19 00-0166 EA 19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....  | 94.60                     |                         |
| Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.   |                           |                         |
| 02 87 19 00-0167 BOX Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....  | 27.34                     |                         |
| 02 87 19 00-0168 EA Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....   | 23.35                     |                         |
| 02 87 19 00-0169 EA Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....  | 2,546.01                  |                         |
| Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (Aff), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly |                           |                         |
| <b>02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables</b> <small>(02 87 19 00-0151)</small>   |                           |                         |
| Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.  |                           |                         |
| 02 87 19 00-0171 GAL Bleach For Bio-Hazard And Infectious Disease Control Clean-up .....  | 11.76                     |                         |
| 02 87 19 00-0172 EA N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up .....  | 4.19                      |                         |
| 02 87 19 00-0173 GAL Disinfectant/Anti-microbial For Bio-Hazard And Infectious Disease Control Clean Up .....   | 115.22                    |                         |
| 02 87 19 00-0174 GAL Goldshield® GS5 Anti-microbial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up .....  | 346.92                    |                         |
| Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days  |                           |                         |
| 02 87 19 00-0175 QT Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up.....  | 11.62                     |                         |
| 02 87 19 00-0176 EA Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up .....  | 5.97                      |                         |
| 02 87 19 00-0177 ROL Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up .....   | 15.00                     |                         |
| 02 87 19 00-0178 EA UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up .....  | 75.80                     |                         |
| 02 87 19 00-0179 ROL Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up .....   | 60.44                     |                         |
| 02 87 19 00-0180 LB Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up .....   | 8.48                      |                         |
| 02 87 19 00-0181 EA Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up.....   | 18.67                     |                         |
| 02 87 19 00-0182 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up .....  | 186.07                    |                         |
| <b>02 89 Hazmat Ancillary Tasks and Support</b> <small>(02 89)</small>  |                           |                         |
| <b>02 89 00 00-0001 Barriers And Protection</b> <small>(02 89)</small>  |                           |                         |
| Note: Includes removal and disposal after use.  |                           |                         |
| <b>02 89 00 00-0002 Isolation Barriers</b> <small>(02 89 00 00-0001)</small>  |                           |                         |
| See CSI section 01 56 16 00-0031 for temporary stud walls.  |                           |                         |
| <b>02 89 00 00-0003 Cleaning Surfaces</b> <small>(02 89 00 00-0001)</small>   |                           |                         |
| Note: Other surfaces outside contamination area but not contaminated by, or part of removal.  |                           |                         |
| 02 89 00 00-0004 SF Up To 100 SF, Clean Non-Asbestos Surface .....  | 1.83                      |                         |
| 02 89 00 00-0005 SF >100 To 500 SF, Clean Non-Asbestos Surface .....  | 1.29                      |                         |
| 02 89 00 00-0006 SF >500 To 1,000 SF, Clean Non-Asbestos Surface .....  | 0.84                      |                         |
| 02 89 00 00-0007 SF >1,000 SF, Clean Non-Asbestos Surface .....   | 0.66                      |                         |
| <b>02 89 00 00-0008 Hazmat Containment Construction Plastic Sheeting</b> <small>(02 89 00 00-0001)</small>  |                           |                         |
| 02 89 00 00-0009 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....   | 0.45                      |                         |
| 02 89 00 00-0010 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction .....   | 0.60                      |                         |
| 02 89 00 00-0011 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction .....  | 0.80                      |                         |
| 02 89 00 00-0012 SF 6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, Hazmat Containment Construction.....   | 0.73                      |                         |
| 02 89 00 00-0013 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction .....   | 0.92                      |                         |
| 02 89 00 00-0014 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction .....  | 1.21                      |                         |
| <b>02 89 00 00-0015 Decontamination Chambers</b> <small>(02 89)</small>   |                           |                         |
| Note: Includes removal after use.   |                           |                         |
| 02 89 00 00-0016 EA 3 Stage Portable Personnel Decontamination Wash Facility .....  | 1,031.90                  |                         |
| Note: Includes connection to negative air system.   |                           |                         |
| 02 89 00 00-0017 EA 5 Stage Portable Personnel Decontamination Wash Facility .....  | 1,216.84                  |                         |
| Note: Includes connection to negative air system.   |                           |                         |
| 02 89 00 00-0018 EA Portable Waste Decontamination Unit .....   | 635.00                    |                         |
| Note: Includes connection to negative air system.   |                           |                         |
| <i>For Dismantling And Relocation To A Different Area, Add</i>  | <i>412.73</i>             |                         |



|   |              |           |
|---|--------------|-----------|
| <b>Existing Conditions</b>                | <b>02</b>    | <b>02</b> |
| <b>Facility Remediation</b>               | <b>02 80</b> |           |
| <b>Hazmat Ancillary Tasks and Support</b> | <b>02 89</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**02 90 Disaster Recovery** <sup>(02)</sup>

Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

**02 90 50 Cleaning and Disaster Clean-up** <sup>(02 90)</sup>

**02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal** <sup>(02 90 50)</sup>

Note: For materials not requiring mold abatement.

|                  |    |  |       |
|------------------|----|--|-------|
| 02 90 50 00-0002 | SY | Wet Broadloom Carpet Removal For Disaster Clean-up .....           | 24.79 |
| 02 90 50 00-0003 | SY | Wet Carpet Tile Removal For Disaster Clean-up .....                | 6.03  |
| 02 90 50 00-0004 | SF | Wet Batt Insulation Removal For Disaster Clean-up .....            | 0.50  |
| 02 90 50 00-0005 | SF | Wet Ceiling Tile Removal For Disaster Clean-up .....               | 0.60  |
| 02 90 50 00-0006 | SF | Single Layer, Wet Gypsum Board Removal For Disaster Clean-up ..... | 0.59  |
| 02 90 50 00-0007 | SF | Double Layer, Wet Gypsum Board Removal For Disaster Clean-up ..... | 0.92  |

**02 90 50 00-0008 Cleaning** <sup>(02 90 50)</sup>

Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required

**02 90 50 00-0009 Clean Furnishings** <sup>(02 90 50 00-0008)</sup>

|   |    |   |        |
|---|----|---|--------|
| 02 90 50 00-0010  | EA | Office Equipment, Exterior Wipe For Disaster Clean-up .....                       | 27.90  |
|   |    | <i>For Medium Clean, Add</i>  | 11.72  |
|   |    | <i>For Heavy Clean, Add</i>   | 36.27  |
| 02 90 50 00-0011  | SF | Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up .....           | 1.55   |
|   |    | <i>For Medium Clean, Add</i>  | 0.65   |
|   |    | <i>For Heavy Clean, Add</i>   | 2.02   |
| 02 90 50 00-0012  | LF | Shelving, Light Clean For Disaster Clean-up .....                                 | 2.79   |
|   |    | <i>For Medium Clean, Add</i>  | 1.17   |
|   |    | <i>For Heavy Clean, Add</i>   | 3.63   |
| 02 90 50 00-0013  | EA | Plastic Or Metal Chair, Light Clean For Disaster Clean-up .....                   | 8.06   |
|   |    | <i>For Medium Clean, Add</i>  | 3.39   |
|   |    | <i>For Heavy Clean, Add</i>   | 10.48  |
| 02 90 50 00-0014  | EA | Upholstered Chair, Light Clean For Disaster Clean-up .....                        | 26.04  |
|   |    | <i>For Medium Clean, Add</i>  | 10.94  |
|   |    | <i>For Heavy Clean, Add</i>   | 33.85  |
| 02 90 50 00-0015  | EA | Upholstered Sofa, Light Clean For Disaster Clean-up .....                         | 160.58 |
|   |    | <i>For Medium Clean, Add</i>  | 67.44  |
|   |    | <i>For Heavy Clean, Add</i>   | 208.75 |
| 02 90 50 00-0016  | EA | Desk, Light Clean For Disaster Clean-up .....                                     | 32.87  |
|   |    | <i>For Medium Clean, Add</i>  | 13.81  |
|   |    | <i>For Heavy Clean, Add</i>   | 42.73  |
| 02 90 50 00-0017  | EA | Table, Light Clean For Disaster Clean-up .....                                    | 31.00  |
|   |    | <i>For Medium Clean, Add</i>  | 13.02  |
|   |    | <i>For Heavy Clean, Add</i>   | 40.30  |
| 02 90 50 00-0018  | EA | Two Drawer File Cabinet, Light Clean For Disaster Clean-up .....                  | 6.80   |
|   |    | <i>For Medium Clean, Add</i>  | 2.86   |
|   |    | <i>For Heavy Clean, Add</i>   | 8.84   |
| 02 90 50 00-0019  | EA | Four Drawer File Cabinet, Light Clean For Disaster Clean-up .....                 | 8.70   |
|   |    | <i>For Medium Clean, Add</i>  | 3.65   |
|   |    | <i>For Heavy Clean, Add</i>   | 11.31  |
| 02 90 50 00-0020  | LF | Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up .....              | 7.13   |
|   |    | <i>For Medium Clean, Add</i>  | 2.99   |
|   |    | <i>For Heavy Clean, Add</i>   | 9.27   |
| 02 90 50 00-0021  | LF | Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up ..... | 13.95  |
|   |    | <i>For Medium Clean, Add</i>  | 5.86   |
|   |    | <i>For Heavy Clean, Add</i>   | 18.14  |
| 02 90 50 00-0022  | LF | Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up .....              | 7.13   |
|   |    | <i>For Medium Clean, Add</i>  | 2.99   |
|   |    | <i>For Heavy Clean, Add</i>   | 9.27   |
| 02 90 50 00-0023  | LF | Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up ..... | 12.41  |
|   |    | <i>For Medium Clean, Add</i>  | 5.21   |
|   |    | <i>For Heavy Clean, Add</i>   | 16.13  |
| 02 90 50 00-0024  | EA | Picture Frame, Glass And Back, Light Clean For Disaster Clean-up .....            | 2.97   |
|   |    | <i>For Medium Clean, Add</i>  | 1.25   |
|   |    | <i>For Heavy Clean, Add</i>   | 3.86   |
| <b>02 90 50 00-0025 Clean Hard Surfaces</b> <sup>(02 90 50 00-0008)</sup> |    |   |        |
| 02 90 50 00-0026  | LF | Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up .....          | 0.41   |
|   |    | <i>For Medium Clean, Add</i>  | 0.17   |
|   |    | <i>For Heavy Clean, Add</i>   | 0.53   |
| 02 90 50 00-0027  | EA | Door And Hardware (Per Side), Light Clean For Disaster Clean-up .....             | 5.27   |
|   |    | <i>For Medium Clean, Add</i>  | 2.21   |
|   |    | <i>For Heavy Clean, Add</i>   | 6.85   |
| 02 90 50 00-0028  | EA | Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up .....    | 5.97   |
|   |    | <i>For Medium Clean, Add</i>  | 2.51   |
|   |    | <i>For Heavy Clean, Add</i>   | 7.76   |
| 02 90 50 00-0029  | SF | Overhead Door, Light Clean For Disaster Clean-up .....                            | 0.42   |
|   |    | <i>For Medium Clean, Add</i>  | 0.18   |
|   |    | <i>For Heavy Clean, Add</i>   | 0.55   |



**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 90 50 00-0030 SF Mirror, Light Clean For Disaster Clean-up .....                                     | 0.31                      |                         |
| For Medium Clean, Add   | 0.13                      |                         |
| For Heavy Clean, Add  | 0.40                      |                         |
| 02 90 50 00-0031 SF Window, Light Clean For Disaster Clean-up .....                                     | 0.91                      |                         |
| For Medium Clean, Add   | 0.38                      |                         |
| For Heavy Clean, Add  | 1.18                      |                         |
| 02 90 50 00-0032 LF Handrail, Light Clean For Disaster Clean-up .....                                   | 0.81                      |                         |
| For Medium Clean, Add   | 0.34                      |                         |
| For Heavy Clean, Add  | 1.05                      |                         |
| 02 90 50 00-0033 LF Bumper Rail, Light Clean For Disaster Clean-up .....                                | 0.44                      |                         |
| For Medium Clean, Add   | 0.18                      |                         |
| For Heavy Clean, Add  | 0.57                      |                         |
| 02 90 50 00-0034 SF Hard Floor, Light Clean For Disaster Clean-up .....                                 | 0.36                      |                         |
| For Medium Clean, Add   | 0.15                      |                         |
| For Heavy Clean, Add  | 0.47                      |                         |
| 02 90 50 00-0035 SF Carpet, Light Clean For Disaster Clean-up .....                                     | 0.37                      |                         |
| For Medium Clean, Add   | 0.16                      |                         |
| For Heavy Clean, Add  | 0.48                      |                         |
| 02 90 50 00-0036 SF Hard Ceiling, Light Clean For Disaster Clean-up .....                               | 0.28                      |                         |
| For Medium Clean, Add   | 0.12                      |                         |
| For Heavy Clean, Add  | 0.36                      |                         |
| 02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up .....           | 0.31                      |                         |
| For Medium Clean, Add   | 0.13                      |                         |
| For Heavy Clean, Add  | 0.40                      |                         |
| 02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean For Disaster Clean-up .....                          | 0.26                      |                         |
| For Medium Clean, Add   | 0.11                      |                         |
| For Heavy Clean, Add  | 0.34                      |                         |
| 02 90 50 00-0039 SF Wall, Light Clean For Disaster Clean-up .....                                       | 0.19                      |                         |
| For Medium Clean, Add   | 0.08                      |                         |
| For Heavy Clean, Add  | 0.25                      |                         |
| 02 90 50 00-0040 SF Masonry Wall, Light Clean For Disaster Clean-up .....                               | 0.26                      |                         |
| For Medium Clean, Add   | 0.11                      |                         |
| For Heavy Clean, Add  | 0.34                      |                         |
| 02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....    | 65.38                     |                         |
| Note: Includes removal from site, cleaning, and return.   |                           |                         |
| For Medium Clean, Add   | 27.46                     |                         |
| For Heavy Clean, Add  | 84.99                     |                         |
| 02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....   | 81.73                     |                         |
| Note: Includes removal from site, cleaning, and return.   |                           |                         |
| For Medium Clean, Add   | 34.33                     |                         |
| For Heavy Clean, Add  | 106.25                    |                         |
| 02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....  | 98.07                     |                         |
| Note: Includes removal from site, cleaning, and return.   |                           |                         |
| For Medium Clean, Add   | 41.19                     |                         |
| For Heavy Clean, Add  | 127.49                    |                         |
| 02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up ..... | 114.42                    |                         |
| For Medium Clean, Add   | 48.06                     |                         |
| For Heavy Clean, Add  | 148.75                    |                         |
| <b>02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)</b>                                      |                           |                         |
| 02 90 50 00-0046 SF Window Blind, Light Clean For Disaster Clean-up .....                               | 0.71                      |                         |
| For Medium Clean, Add   | 0.30                      |                         |
| For Heavy Clean, Add  | 0.92                      |                         |
| 02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up .....          | 1.45                      |                         |
| For Medium Clean, Add   | 0.61                      |                         |
| For Heavy Clean, Add  | 1.89                      |                         |
| 02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up .....    | 1.68                      |                         |
| For Medium Clean, Add   | 0.71                      |                         |
| For Heavy Clean, Add  | 2.18                      |                         |
| 02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up .....              | 1.52                      |                         |
| For Medium Clean, Add   | 0.64                      |                         |
| For Heavy Clean, Add  | 1.98                      |                         |
| 02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up .....        | 1.75                      |                         |
| For Medium Clean, Add   | 0.74                      |                         |
| For Heavy Clean, Add  | 2.28                      |                         |
| 02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up .....             | 1.87                      |                         |
| For Medium Clean, Add   | 0.79                      |                         |
| For Heavy Clean, Add  | 2.43                      |                         |
| 02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up .....       | 2.15                      |                         |
| For Medium Clean, Add   | 0.90                      |                         |
| For Heavy Clean, Add  | 2.80                      |                         |
| <b>02 90 50 00-0053 Clean Appliances (02 90 50 00-0008)</b>   |                           |                         |
| 02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean For Disaster Clean-up .....                    | 12.84                     |                         |
| For Medium Clean, Add   | 5.39                      |                         |
| For Heavy Clean, Add  | 16.69                     |                         |
| 02 90 50 00-0055 EA Refrigerator, Outside, Light Clean For Disaster Clean-up .....                      | 30.26                     |                         |
| For Medium Clean, Add   | 12.71                     |                         |
| For Heavy Clean, Add  | 39.34                     |                         |
| 02 90 50 00-0056 EA Range, Outside, Light Clean For Disaster Clean-up .....                             | 26.15                     |                         |
| For Medium Clean, Add   | 10.98                     |                         |
| For Heavy Clean, Add  | 34.00                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>02 90 50 00-0057 Clean Plumbing (02 90 50 00-0008)</b>   |                           |                         |
| 02 90 50 00-0058 EA Water Heater, Light Clean For Disaster Clean-up .....                             | 18.60                     |                         |
| <i>For Medium Clean, Add</i>  | 7.81                      |                         |
| <i>For Heavy Clean, Add</i>   | 24.18                     |                         |
| 02 90 50 00-0059 EA Plumbing Fixture, Light Clean For Disaster Clean-up .....                         | 18.78                     |                         |
| <i>For Medium Clean, Add</i>  | 7.89                      |                         |
| <i>For Heavy Clean, Add</i>   | 24.41                     |                         |
| 02 90 50 00-0060 EA Restroom Accessory, Light Clean For Disaster Clean-up .....                       | 8.62                      |                         |
| <i>For Medium Clean, Add</i>  | 3.62                      |                         |
| <i>For Heavy Clean, Add</i>   | 11.21                     |                         |
| <b>02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)</b>   |                           |                         |
| 02 90 50 00-0062 LF Baseboard Heater, Light Clean For Disaster Clean-up .....                         | 5.55                      |                         |
| <i>For Medium Clean, Add</i>  | 2.33                      |                         |
| <i>For Heavy Clean, Add</i>   | 7.22                      |                         |
| 02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up .....                  | 15.50                     |                         |
| <i>For Medium Clean, Add</i>  | 6.51                      |                         |
| <i>For Heavy Clean, Add</i>   | 20.15                     |                         |
| 02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up ..... | 59.53                     |                         |
| <i>For Medium Clean, Add</i>  | 25.00                     |                         |
| <i>For Heavy Clean, Add</i>   | 77.39                     |                         |
| 02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up .....                          | 5.58                      |                         |
| <i>For Medium Clean, Add</i>  | 2.34                      |                         |
| <i>For Heavy Clean, Add</i>   | 7.25                      |                         |
| 02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up .....         | 38.64                     |                         |
| <i>For Medium Clean, Add</i>  | 16.23                     |                         |
| <i>For Heavy Clean, Add</i>   | 50.23                     |                         |
| 02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up .....                   | 34.41                     |                         |
| <i>For Medium Clean, Add</i>  | 14.45                     |                         |
| <i>For Heavy Clean, Add</i>   | 44.73                     |                         |
| <b>02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)</b>   |                           |                         |
| 02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up .....                             | 22.94                     |                         |
| <i>For Medium Clean, Add</i>  | 9.63                      |                         |
| <i>For Heavy Clean, Add</i>   | 29.82                     |                         |
| 02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up .....                              | 24.80                     |                         |
| <i>For Medium Clean, Add</i>  | 10.42                     |                         |
| <i>For Heavy Clean, Add</i>   | 32.24                     |                         |
| 02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up .....                    | 32.24                     |                         |
| <i>For Medium Clean, Add</i>  | 13.54                     |                         |
| <i>For Heavy Clean, Add</i>   | 41.91                     |                         |
| 02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up .....                      | 22.64                     |                         |
| <i>For Medium Clean, Add</i>  | 9.51                      |                         |
| <i>For Heavy Clean, Add</i>   | 29.43                     |                         |
| 02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up .....                    | 14.88                     |                         |
| <i>For Medium Clean, Add</i>  | 6.25                      |                         |
| <i>For Heavy Clean, Add</i>   | 19.34                     |                         |
| 02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up .....                            | 6.82                      |                         |
| <i>For Medium Clean, Add</i>  | 2.86                      |                         |
| <i>For Heavy Clean, Add</i>   | 8.87                      |                         |
| 02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up .....                           | 5.27                      |                         |
| <i>For Medium Clean, Add</i>  | 2.21                      |                         |
| <i>For Heavy Clean, Add</i>   | 6.85                      |                         |
| 02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up .....                               | 1.86                      |                         |
| <i>For Medium Clean, Add</i>  | 0.78                      |                         |
| <i>For Heavy Clean, Add</i>   | 2.42                      |                         |
| <b>02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)</b>  |                           |                         |
| 02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up .....         | 0.02                      |                         |
| <b>02 90 50 00-0079 Contents Manipulation (02 90 50)</b>  |                           |                         |
| 02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up .....            | 0.24                      |                         |
| 02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up .....                       | 0.30                      |                         |
| 02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up .....                     | 0.49                      |                         |
| 02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up .....                     | 191.74                    |                         |
| 02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up .....                     | 254.28                    |                         |
| 02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up .....           | 144.22                    |                         |
| <b>02 90 50 00-0086 Water Disaster Clean-up (02 90 50)</b>  |                           |                         |
| 02 90 50 00-0087 LF Detach Baseboard For Disaster Clean-up .....                                      | 0.68                      |                         |
| 02 90 50 00-0088 LF Detach And Later Reset Baseboard For Disaster Clean-up .....                      | 1.20                      |                         |
| 02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up .....      | 4.44                      |                         |
| 02 90 50 00-0090 SF Water Extraction From Floor For Disaster Clean-up .....                           | 0.46                      |                         |
| 02 90 50 00-0091 SF Gray Water Extraction From Floor For Disaster Clean-up .....                      | 0.74                      |                         |
| 02 90 50 00-0092 SF Black Water Extraction From Floor For Disaster Clean-up .....                     | 1.17                      |                         |

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |      |
|------------------|----|--|------|
| 02 90 50 00-0093 | SF | Tear Out Wet Non-Salvageable Carpet For Disaster Clean-up .....                        | 0.37 |
| 02 90 50 00-0094 | SF | Tear Out Wet Non-Salvageable Carpet, Black Water For Disaster Clean-up .....           | 0.43 |
| 02 90 50 00-0095 | SF | Tear Out Wet Non-Salvageable Glue Down Carpet For Disaster Clean-up .....              | 0.65 |
| 02 90 50 00-0096 | SF | Tear Out Wet Non-Salvageable Glue Down Carpet, Black Water For Disaster Clean-up ..... | 0.95 |
| 02 90 50 00-0097 | SF | Tear Out Vinyl Flooring For Disaster Clean-up .....                                    | 0.90 |
| 02 90 50 00-0098 | SF | Tear Out Vinyl Flooring, Black Water For Disaster Clean-up .....                       | 1.33 |
| 02 90 50 00-0099 | SF | Tear Out Wood Flooring, Black Water For Disaster Clean-up .....                        | 3.43 |
| 02 90 50 00-0100 | SF | Tear Out Laminated Wood Flooring For Disaster Clean-up .....                           | 1.68 |
| 02 90 50 00-0101 | SF | Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up .....              | 2.48 |
| 02 90 50 00-0102 | SF | Tear Out Wet Ceiling Tile For Disaster Clean-up .....                                  | 0.29 |
| 02 90 50 00-0103 | SF | Tear Out Batt Insulation For Disaster Clean-up .....                                   | 0.29 |
| 02 90 50 00-0104 | SF | Tear Out Wet Gypsum Board For Disaster Clean-up .....                                  | 0.48 |
| 02 90 50 00-0105 | SF | Apply Anti-microbial Agent For Disaster Clean-up .....                                 | 0.28 |
| 02 90 50 00-0106 | SF | High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up .....           | 0.36 |

**02 90 50 00-0107 Board Up And Tarp Up (02 90 50)**

|                  |    |   |      |
|------------------|----|---|------|
| 02 90 50 00-0108 | SF | Polyethylene Tarp On Roof For Disaster Clean-up .....                 | 0.27 |
| 02 90 50 00-0109 | SF | 1/2" Temporary Plywood On Roof For Disaster Clean-up .....            | 1.44 |
| 02 90 50 00-0110 | SF | 5/8" Temporary Plywood On Roof For Disaster Clean-up .....            | 1.62 |
| 02 90 50 00-0111 | SF | 3/4" Temporary Plywood On Roof For Disaster Clean-up .....            | 1.76 |
| 02 90 50 00-0112 | SF | 1/2" Temporary Plywood On Wall Or Windows For Disaster Clean-up ..... | 1.81 |
| 02 90 50 00-0113 | SF | 5/8" Temporary Plywood On Wall Or Windows For Disaster Clean-up ..... | 1.99 |
| 02 90 50 00-0114 | SF | 3/4" Temporary Plywood On Wall Or Windows For Disaster Clean-up ..... | 2.13 |

**02 90 50 00-0115 Minimum Charges (02 90 50)**

|                  |    |  |          |
|------------------|----|--|----------|
| 02 90 50 00-0116 | EA | Disaster Cleaning Minimum Charge .....         | 1,395.63 |
| 02 90 50 00-0117 | EA | Disaster Water Extraction Minimum Charge ..... | 289.38   |
| 02 90 50 00-0118 | EA | Disaster Carpet Cleaning Minimum Charge .....  | 246.88   |

**02 90 50 00-0119 Document Restoration (02 90 50)**

|                  |    |  |        |
|------------------|----|--|--------|
| 02 90 50 00-0120 | EA | Book Rebinding, Each For Document Restoration .....                            | 127.49 |
| 02 90 50 00-0121 | EA | Book Recasing, Each For Document Restoration .....                             | 63.74  |
| 02 90 50 00-0122 | EA | Boxes-MCS, 1.2 CF For Document Restoration .....                               | 9.07   |
| 02 90 50 00-0123 | EA | Boxes-MCS, 2.0 CF For Document Restoration .....                               | 10.01  |
| 02 90 50 00-0124 | EA | Boxes Bankers For Document Restoration .....                                   | 20.37  |
| 02 90 50 00-0125 | EA | Boxes Standard Packout For Document Restoration .....                          | 5.81   |
| 02 90 50 00-0126 | EA | Boxes X Ray For Document Restoration .....                                     | 12.76  |
| 02 90 50 00-0127 | EA | CD Scanning and Diagnostics, Each For Document Restoration .....               | 12.76  |
| 02 90 50 00-0128 | EA | Cleaning Antique Books, Each For Document Restoration .....                    | 382.45 |
| 02 90 50 00-0129 | EA | Cleaning Catheter Roll, Per Roll For Document Restoration .....                | 50.98  |
| 02 90 50 00-0130 | EA | Cleaning CD And DVD, Per Disc For Document Restoration .....                   | 5.12   |
| 02 90 50 00-0131 | EA | Cleaning Level 1 - Blue Prints, Each For Document Restoration .....            | 4.06   |
| 02 90 50 00-0132 | CF | Cleaning Level 1 - Document Per CF For Document Restoration .....              | 125.69 |
| 02 90 50 00-0133 | EA | Cleaning Level 1 - Linen, Each For Document Restoration .....                  | 4.06   |
| 02 90 50 00-0134 | EA | Cleaning Level 1 - Mylar, Each For Document Restoration .....                  | 4.06   |
| 02 90 50 00-0135 | EA | Cleaning Level 2 - Blue Print, Each For Document Restoration .....             | 5.04   |
| 02 90 50 00-0136 | CF | Cleaning Level 2 - Document Per CF For Document Restoration .....              | 188.36 |
| 02 90 50 00-0137 | EA | Cleaning Level 2 - Linen, Each For Document Restoration .....                  | 5.04   |
| 02 90 50 00-0138 | EA | Cleaning Level 2 - Mylar, Each For Document Restoration .....                  | 5.04   |
| 02 90 50 00-0139 | EA | Cleaning Level 3 - Blue Prints, Each For Document Restoration .....            | 7.15   |
| 02 90 50 00-0140 | CF | Cleaning Level 3 - Document Per CF For Document Restoration .....              | 251.33 |
| 02 90 50 00-0141 | EA | Cleaning Level 3 - Linen, Each For Document Restoration .....                  | 7.15   |
| 02 90 50 00-0142 | EA | Cleaning Level 3 - Mylar, Each For Document Restoration .....                  | 7.15   |
| 02 90 50 00-0143 | EA | Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration .....    | 10.02  |
| 02 90 50 00-0144 | EA | Cleaning Level 4 - All Fire-Linen, Each For Document Restoration .....         | 10.02  |
| 02 90 50 00-0145 | EA | Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration .....         | 10.02  |
| 02 90 50 00-0146 | CF | Cleaning Level 4 - Light Fire-Document Per CF For Document Restoration .....   | 314.11 |
| 02 90 50 00-0147 | EA | Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration ..... | 11.10  |
| 02 90 50 00-0148 | CF | Cleaning Level 5 - Severe Fire-Document Per CF For Document Restoration .....  | 471.30 |
| 02 90 50 00-0149 | EA | Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration .....      | 11.10  |
| 02 90 50 00-0150 | EA | Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration .....      | 11.10  |
| 02 90 50 00-0151 | EA | Cleaning Microfiche Sheets, Each For Document Restoration .....                | 3.94   |
| 02 90 50 00-0152 | EA | Cleaning Microfiche Strips, Each For Document Restoration .....                | 0.91   |
| 02 90 50 00-0153 | EA | Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration .....   | 127.49 |
| 02 90 50 00-0154 | EA | Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration .....    | 178.49 |
| 02 90 50 00-0155 | EA | Cleaning Photographs Negatives, Per Negative For Document Restoration .....    | 3.94   |
| 02 90 50 00-0156 | EA | Cleaning Photographs, Each For Document Restoration .....                      | 0.91   |
| 02 90 50 00-0157 | EA | Cleaning Record Albums, Each For Document Restoration .....                    | 5.12   |
| 02 90 50 00-0158 | EA | Cleaning VHS And Beta Tapes-In House, Each For Document Restoration .....      | 12.76  |
| 02 90 50 00-0159 | EA | Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration .....       | 50.98  |
| 02 90 50 00-0160 | EA | Cleaning X Ray 1-1000, Per Film For Document Restoration .....                 | 5.38   |
| 02 90 50 00-0161 | EA | Cleaning X Ray 1K-5K, Per Film For Document Restoration .....                  | 4.59   |
| 02 90 50 00-0162 | EA | Cleaning X Ray 5K-Up, Per Film For Document Restoration .....                  | 3.60   |
| 02 90 50 00-0163 | EA | Copying Clean Water, Per Page For Document Restoration .....                   | 0.52   |
| 02 90 50 00-0164 | EA | Copying Greywater Fire, Per Page For Document Restoration .....                | 1.38   |
| 02 90 50 00-0165 | CF | Deodorization, Vapor Tech For Document Restoration .....                       | 9.22   |
| 02 90 50 00-0166 | CF | Disinfectant-Fogging For Document Restoration .....                            | 17.88  |
| 02 90 50 00-0167 | EA | Document Disposal In House No Shredding For Document Restoration .....         | 71.62  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 02 90 50 00-0168 EA Document Disposal In House With Shredding For Document Restoration .....               | 19.54                     |                         |
| 02 90 50 00-0169 CF Up To 150 CF, Drying-MCS Center For Document Restoration .....                         | 229.47                    |                         |
| 02 90 50 00-0170 CF >150 To 500 CF, Drying-MCS Center For Document Restoration .....                       | 178.49                    |                         |
| 02 90 50 00-0171 CF >500 CF, Drying-MCS Center For Document Restoration .....                              | 152.98                    |                         |
| 02 90 50 00-0172 CF >50 To 150 CF, Drying-MCS Center For Document Restoration .....                        | 203.98                    |                         |
| 02 90 50 00-0173 CF Up To 500 CF, Drying-Onsite For Document Restoration .....                             | 382.45                    |                         |
| 02 90 50 00-0174 CF >500 CF, Drying-Onsite For Document Restoration .....                                  | 234.61                    |                         |
| 02 90 50 00-0175 EA Drying Antique Books, Each For Document Restoration .....                              | 50.98                     |                         |
| 02 90 50 00-0176 EA Drying Blue Prints, Each For Document Restoration .....                                | 6.38                      |                         |
| 02 90 50 00-0177 EA DVD Scanning And Diagnostics, Each For Document Restoration .....                      | 12.76                     |                         |
| 02 90 50 00-0178 EA Freeze Drying (In House) For Document Restoration .....                                | 130.69                    |                         |
| 02 90 50 00-0179 EA Freeze Drying (Outside) For Document Restoration .....                                 | 112.02                    |                         |
| 02 90 50 00-0180 EA Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration .....       | 3,080.55                  |                         |
| 02 90 50 00-0181 CF >48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration .....             | 28.00                     |                         |
| 02 90 50 00-0182 EA Minimal Drying Jobs For Document Restoration .....                                     | 1,297.56                  |                         |
| 02 90 50 00-0183 EA Monthly Storage For Document Restoration .....   | 233.38                    |                         |
| 02 90 50 00-0184 EA Mylar Prints For Document Restoration .....  | 12.76                     |                         |
| 02 90 50 00-0185 CF Ozoning For Document Restoration .....   | 8.28                      |                         |
| 02 90 50 00-0186 CF Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration ..... | 11.28                     |                         |
| 02 90 50 00-0187 MO Stabilization Freezer Storage, Per Page-Per Month For Document Restoration .....       | 0.12                      |                         |
| 02 90 50 00-0188 EA Wood Pallets, Each For Document Restoration .....                                      | 31.35                     |                         |

**02 90 55 Emergency Clean-up** (02 90)

## 02 90 55 00-0001 Emergency Clean-up (02 90 55)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

## 02 90 55 00-0002 Emergency Clean-up Labor (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Labor costs are based on workers familiar with and skilled in the performance of the task following restoration requirements. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

|   |        |
|---|--------|
| 02 90 55 00-0003 HR Skilled Tradesman For Emergency Clean Up .....  | 60.96  |
| 02 90 55 00-0004 HR Restoration / Document Laborer For Emergency Clean Up .....                           | 42.67  |
| 02 90 55 00-0005 HR Restoration / Document Supervisor For Emergency Clean Up .....                        | 58.67  |
| 02 90 55 00-0006 HR Restoration / Document Project Manager For Emergency Clean Up .....                   | 96.01  |
| 02 90 55 00-0007 HR Assistant Project Manager For Emergency Clean Up .....                                | 80.01  |
| 02 90 55 00-0008 HR Senior Project Manager For Emergency Clean Up .....                                   | 112.01 |
| 02 90 55 00-0009 HR Project Director / Document Consultant / Account Manager For Emergency Clean Up ..... | 160.02 |
| 02 90 55 00-0010 HR Equipment Technician For Emergency Clean Up .....                                     | 117.35 |
| 02 90 55 00-0011 HR Mold Remediation Laborer For Emergency Clean Up .....                                 | 58.42  |
| 02 90 55 00-0012 HR Mold Remediation Supervisor For Emergency Clean Up .....                              | 80.01  |
| 02 90 55 00-0013 HR Administrative Personnel For Emergency Clean Up .....                                 | 37.34  |
| 02 90 55 00-0014 HR Project Accountant For Emergency Clean Up .....                                       | 60.96  |
| 02 90 55 00-0015 HR Biohazard Technician For Emergency Clean Up .....                                     | 84.71  |
| 02 90 55 00-0016 HR Biohazard Supervisor For Emergency Clean Up .....                                     | 101.85 |
| 02 90 55 00-0017 HR Health And Safety Officer For Emergency Clean Up .....                                | 91.44  |
| 02 90 55 00-0018 HR Resource And Logistics Coordinator For Emergency Clean Up .....                       | 66.04  |
| 02 90 55 00-0019 HR Loss Control Specialist For Emergency Clean Up .....                                  | 64.01  |
| 02 90 55 00-0020 HR Moisture Control Specialist For Emergency Clean Up .....                              | 52.83  |
| 02 90 55 00-0021 HR Mobilization Support For Emergency Clean Up .....                                     | 32.51  |

## 02 90 55 00-0022 Emergency Clean-up Equipment (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

## 02 90 55 00-0023 General Emergency Clean-up Equipment (02 90 55 00-0022)

|   |          |
|---|----------|
| 02 90 55 00-0024 DAY 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up .....        | 163.58   |
| 02 90 55 00-0025 WK 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up .....         | 624.03   |
| 02 90 55 00-0026 MO 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up .....         | 1,708.50 |
| 02 90 55 00-0027 DAY 13" Floor Buffer Rental For Emergency Clean-up .....                             | 54.67    |
| 02 90 55 00-0028 WK 13" Floor Buffer Rental For Emergency Clean-up .....                              | 146.07   |
| 02 90 55 00-0029 MO 13" Floor Buffer Rental For Emergency Clean-up .....                              | 403.23   |
| 02 90 55 00-0030 DAY 17" Floor Buffer Rental For Emergency Clean-up .....                             | 100.81   |
| 02 90 55 00-0031 WK 17" Floor Buffer Rental For Emergency Clean-up .....                              | 257.16   |
| 02 90 55 00-0032 MO 17" Floor Buffer Rental For Emergency Clean-up .....                              | 606.90   |
| 02 90 55 00-0033 DAY Walk Behind Floor Scrubber Rental For Emergency Clean-up .....                   | 555.47   |
| 02 90 55 00-0034 WK Walk Behind Floor Scrubber Rental For Emergency Clean-up .....                    | 1,491.54 |
| 02 90 55 00-0035 MO Walk Behind Floor Scrubber Rental For Emergency Clean-up .....                    | 4,155.75 |
| 02 90 55 00-0036 DAY Ride-On Floor Scrubber Rental For Emergency Clean-up .....                       | 1,254.95 |
| 02 90 55 00-0037 WK Ride-On Floor Scrubber Rental For Emergency Clean-up .....                        | 3,312.25 |
| 02 90 55 00-0038 MO Ride-On Floor Scrubber Rental For Emergency Clean-up .....                        | 8,928.68 |
| 02 90 55 00-0039 DAY 4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....        | 90.52    |
| 02 90 55 00-0040 WK 4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....         | 257.16   |
| 02 90 55 00-0041 MO 4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....         | 884.64   |
| 02 90 55 00-0042 DAY 8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....        | 84.35    |
| 02 90 55 00-0043 WK 8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....         | 226.30   |
| 02 90 55 00-0044 MO 8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....         | 586.33   |
| 02 90 55 00-0045 DAY 17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up ..... | 134.96   |
| 02 90 55 00-0046 WK 17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up .....  | 385.13   |

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |     |   |          |  |
|------------------|-----|---|----------|--|
| 02 90 55 00-0047 | MO  | 17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up  | 1,076.38 |  |
| 02 90 55 00-0048 | DAY | Truck Mounted Extractor Rental For Emergency Clean-up   | 958.72   |  |
| 02 90 55 00-0049 | WK  | Truck Mounted Extractor Rental For Emergency Clean-up   | 2,876.15 |  |
| 02 90 55 00-0050 | MO  | Truck Mounted Extractor Rental For Emergency Clean-up   | 8,628.44 |  |
| 02 90 55 00-0051 | DAY | 16" Chain Saw Rental For Emergency Clean-up   | 98.75    |  |
| 02 90 55 00-0052 | WK  | 16" Chain Saw Rental For Emergency Clean-up   | 222.19   |  |
| 02 90 55 00-0053 | MO  | 16" Chain Saw Rental For Emergency Clean-up   | 592.50   |  |
| 02 90 55 00-0054 | DAY | 20" Chain Saw Rental For Emergency Clean-up   | 123.44   |  |
| 02 90 55 00-0055 | WK  | 20" Chain Saw Rental For Emergency Clean-up   | 277.74   |  |
| 02 90 55 00-0056 | MO  | 20" Chain Saw Rental For Emergency Clean-up   | 740.63   |  |
| 02 90 55 00-0057 | EA  | Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up  | 92.58    |  |
| 02 90 55 00-0058 | DAY | 14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up   | 131.67   |  |
| 02 90 55 00-0059 | WK  | 14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up   | 360.03   |  |
| 02 90 55 00-0060 | MO  | 14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up   | 1,008.08 |  |
| 02 90 55 00-0061 | DAY | 12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up   | 160.47   |  |
| 02 90 55 00-0062 | WK  | 12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up   | 545.18   |  |
| 02 90 55 00-0063 | MO  | 12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up   | 1,038.94 |  |
| 02 90 55 00-0064 | DAY | Wet Or Dry Portable Cleaning Unit For Emergency Clean-up  | 154.91   |  |
| 02 90 55 00-0065 | WK  | Wet Or Dry Portable Cleaning Unit For Emergency Clean-up  | 426.01   |  |
| 02 90 55 00-0066 | MO  | Wet Or Dry Portable Cleaning Unit For Emergency Clean-up  | 1,161.83 |  |
| 02 90 55 00-0067 | DAY | Extension Cords - 220 Volt For Emergency Clean-up   | 51.43    |  |
| 02 90 55 00-0068 | DAY | Extension Cords - 220 Volt Converter Box For Emergency Clean-up   | 30.86    |  |
| 02 90 55 00-0069 | DAY | Demolition Cart, 1 Yard For Emergency Clean-up  | 82.29    |  |
| 02 90 55 00-0070 | WK  | Demolition Cart, 1 Yard For Emergency Clean-up  | 226.30   |  |
| 02 90 55 00-0071 | MO  | Demolition Cart, 1 Yard For Emergency Clean-up  | 617.19   |  |
| 02 90 55 00-0072 | DAY | Demolition Cart, 1-1/2 Yard For Emergency Clean-up  | 102.86   |  |
| 02 90 55 00-0073 | WK  | Demolition Cart, 1-1/2 Yard For Emergency Clean-up  | 282.88   |  |
| 02 90 55 00-0074 | MO  | Demolition Cart, 1-1/2 Yard For Emergency Clean-up  | 771.49   |  |
| 02 90 55 00-0075 | EA  | Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up   | 154.30   |  |
| 02 90 55 00-0076 | DAY | Dry-Ice Blasting System For Emergency Clean-up  | 1,817.52 |  |
| 02 90 55 00-0077 | DAY | Fogger - Mist For Emergency Clean-up  | 45.56    |  |
| 02 90 55 00-0078 | WK  | Fogger - Mist For Emergency Clean-up  | 125.30   |  |
| 02 90 55 00-0079 | MO  | Fogger - Mist For Emergency Clean-up  | 341.72   |  |
| 02 90 55 00-0080 | DAY | Fogger - Electric Thermal For Emergency Clean-up  | 65.61    |  |
| 02 90 55 00-0081 | WK  | Fogger - Electric Thermal For Emergency Clean-up  | 180.43   |  |
| 02 90 55 00-0082 | MO  | Fogger - Electric Thermal For Emergency Clean-up  | 492.07   |  |
| 02 90 55 00-0083 | DAY | Fogger - Gas Power Thermal For Emergency Clean-up   | 189.77   |  |
| 02 90 55 00-0084 | WK  | Fogger - Gas Power Thermal For Emergency Clean-up   | 521.86   |  |
| 02 90 55 00-0085 | MO  | Fogger - Gas Power Thermal For Emergency Clean-up   | 1,423.24 |  |
| 02 90 55 00-0086 | EA  | Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up  | 216.96   |  |
| 02 90 55 00-0087 | WK  | Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up  | 596.65   |  |
| 02 90 55 00-0088 | MO  | Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up  | 1,627.22 |  |
| 02 90 55 00-0089 | DAY | Hand Trucks/Dollies For Emergency Clean-up  | 24.69    |  |
| 02 90 55 00-0090 | WK  | Hand Trucks/Dollies For Emergency Clean-up  | 67.89    |  |
| 02 90 55 00-0091 | MO  | Hand Trucks/Dollies For Emergency Clean-up  | 185.16   |  |
| 02 90 55 00-0092 | DAY | Heat Gun - Shrink Wrap For Emergency Clean-up   | 140.02   |  |
| 02 90 55 00-0093 | WK  | Heat Gun - Shrinkwrap For Emergency Clean-up  | 385.07   |  |
| 02 90 55 00-0094 | MO  | Heat Gun - Shrinkwrap For Emergency Clean-up  | 1,050.19 |  |
| 02 90 55 00-0095 | DAY | High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up<br>Note: Includes all filters. | 190.93   |  |
| 02 90 55 00-0096 | DAY | Ladder For Emergency Clean-up   | 34.97    |  |
| 02 90 55 00-0097 | DAY | Lights - Demo, Drop, Stand, String For Emergency Clean-up   | 32.80    |  |
| 02 90 55 00-0098 | DAY | Lights - Wobble For Emergency Clean-up  | 40.09    |  |
| 02 90 55 00-0099 | DAY | Moisture Meter For Emergency Clean-up   | 54.67    |  |
| 02 90 55 00-0100 | WK  | Moisture Meter For Emergency Clean-up   | 150.36   |  |
| 02 90 55 00-0101 | MO  | Moisture Meter For Emergency Clean-up   | 410.06   |  |
| 02 90 55 00-0102 | DAY | Nail Gun For Emergency Clean-up   | 92.58    |  |
| 02 90 55 00-0103 | WK  | Nail Gun For Emergency Clean-up   | 254.59   |  |
| 02 90 55 00-0104 | MO  | Nail Gun For Emergency Clean-up   | 694.34   |  |
| 02 90 55 00-0105 | DAY | Ozone Generator For Emergency Clean-up  | 227.81   |  |
| 02 90 55 00-0106 | DAY | PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up                               | 123.44   |  |
| 02 90 55 00-0107 | DAY | Portable Generator, Up To 7,500 Watt For Emergency Clean-up   | 182.25   |  |
| 02 90 55 00-0108 | DAY | Pressure Washer, Hot For Emergency Clean-up   | 273.37   |  |
| 02 90 55 00-0109 | DAY | Pressure Washer, Cold For Emergency Clean-up  | 182.25   |  |
| 02 90 55 00-0110 | DAY | Scaffolding - Per Section For Emergency Clean-up  | 133.72   |  |
| 02 90 55 00-0111 | DAY | Small Tools - Tool Box For Emergency Clean-up   | 51.43    |  |
| 02 90 55 00-0112 | DAY | Soda Blasting Equipment For Emergency Clean-up  | 1,803.52 |  |
| 02 90 55 00-0113 | DAY | Sprayer - Hudson For Emergency Clean-up   | 16.46    |  |
| 02 90 55 00-0114 | WK  | Sprayer - Hudson For Emergency Clean-up   | 45.26    |  |
| 02 90 55 00-0115 | MO  | Sprayer - Hudson For Emergency Clean-up   | 123.44   |  |
| 02 90 55 00-0116 | DAY | 0.47 GPM, Airless Paint Sprayer For Emergency Clean-up  | 111.18   |  |
| 02 90 55 00-0117 | WK  | 0.47 GPM, Airless Paint Sprayer For Emergency Clean-up  | 327.11   |  |
| 02 90 55 00-0118 | MO  | 0.47 GPM, Airless Paint Sprayer For Emergency Clean-up  | 1,119.62 |  |
| 02 90 55 00-0119 | DAY | 0.60 GPM, Airless Paint Sprayer For Emergency Clean-up  | 219.23   |  |
| 02 90 55 00-0120 | WK  | 0.60 GPM, Airless Paint Sprayer For Emergency Clean-up  | 516.75   |  |
| 02 90 55 00-0121 | MO  | 0.60 GPM, Airless Paint Sprayer For Emergency Clean-up  | 1,440.64 |  |
| 02 90 55 00-0122 | DAY | 0.80 GPM, Airless Paint Sprayer For Emergency Clean-up  | 234.88   |  |
| 02 90 55 00-0123 | WK  | 0.80 GPM, Airless Paint Sprayer For Emergency Clean-up  | 587.22   |  |
| 02 90 55 00-0124 | MO  | 0.80 GPM, Airless Paint Sprayer For Emergency Clean-up  | 1,581.57 |  |
| 02 90 55 00-0125 | DAY | Storage Space (Per SF Per Day) For Emergency Clean-up   | 4.52     |  |
| 02 90 55 00-0126 | DAY | Submersible Pump For Emergency Clean-up   | 45.56    |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 90 55 00-0127 DAY Trash Pump - 2" Gas Powered For Emergency Clean-up .....   | 259.51                    |                         |
| 02 90 55 00-0128 DAY Vehicle, Pick-up, SUV, Car For Emergency Clean-up .....  | 128.82                    |                         |
| 02 90 55 00-0129 DAY Vehicle, Van For Emergency Clean-up .....  | 210.04                    |                         |
| 02 90 55 00-0130 DAY 16' Or 24' Box Truck Vehicle For Emergency Clean-up .....  | 263.56                    |                         |
| Note: Includes Mileage  |                           |                         |
| 02 90 55 00-0131 DAY Trailer - Refrigerated 40' Storage For Emergency Clean-up .....                                  | 279.12                    |                         |
| 02 90 55 00-0132 DAY Utility Trailer For Emergency Clean-up .....   | 232.44                    |                         |
| Note: Includes Mileage  |                           |                         |
| 02 90 55 00-0133 DAY Truck Mount, Per Wand Extraction For Emergency Clean-up .....                                    | 1,048.32                  |                         |
| 02 90 55 00-0134 DAY High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up .....              | 45.56                     |                         |
| 02 90 55 00-0135 WK High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up .....               | 125.30                    |                         |
| 02 90 55 00-0136 MO High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up .....               | 341.72                    |                         |
| 02 90 55 00-0137 DAY 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up ..... | 154.91                    |                         |
| 02 90 55 00-0138 WK 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up .....  | 426.01                    |                         |
| 02 90 55 00-0139 MO 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up .....  | 1,161.83                  |                         |
| 02 90 55 00-0140 DAY Vacuum - Upright For Emergency Clean-up .....  | 30.81                     |                         |
| 02 90 55 00-0141 WK Vacuum - Upright For Emergency Clean-up .....   | 84.72                     |                         |
| 02 90 55 00-0142 MO Vacuum - Upright For Emergency Clean-up .....   | 231.04                    |                         |
| 02 90 55 00-0143 DAY 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up .....                                | 63.78                     |                         |
| 02 90 55 00-0144 WK 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up .....                                 | 158.41                    |                         |
| 02 90 55 00-0145 MO 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up .....                                 | 380.60                    |                         |
| 02 90 55 00-0146 DAY 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up .....                                   | 63.78                     |                         |
| 02 90 55 00-0147 WK 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up .....                                    | 158.41                    |                         |
| 02 90 55 00-0148 MO 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up .....                                    | 401.17                    |                         |
| 02 90 55 00-0149 DAY 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up .....                            | 146.07                    |                         |
| 02 90 55 00-0150 WK 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up .....                             | 390.89                    |                         |
| 02 90 55 00-0151 MO 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up .....                             | 1,090.37                  |                         |
| 02 90 55 00-0152 DAY Zip Wall Poles (Per 2 Poles) For Emergency Clean-up .....  | 45.56                     |                         |
| 02 90 55 00-0153 WK Zip Wall Poles (Per 2 Poles) For Emergency Clean-up .....   | 125.30                    |                         |
| 02 90 55 00-0154 MO Zip Wall Poles (Per 2 Poles) For Emergency Clean-up .....   | 341.72                    |                         |
| 02 90 55 00-0155 DAY 10' x 10' Canopy For Emergency Clean-up .....  | 129.61                    |                         |
| 02 90 55 00-0156 WK 10' x 10' Canopy For Emergency Clean-up .....   | 259.22                    |                         |
| 02 90 55 00-0157 MO 10' x 10' Canopy For Emergency Clean-up .....   | 518.44                    |                         |
| 02 90 55 00-0158 DAY 10' x 20' Canopy For Emergency Clean-up .....  | 259.22                    |                         |
| 02 90 55 00-0159 WK 10' x 20' Canopy For Emergency Clean-up .....   | 518.44                    |                         |
| 02 90 55 00-0160 MO 10' x 20' Canopy For Emergency Clean-up .....   | 1,036.88                  |                         |
| 02 90 55 00-0161 DAY 16' x 16' Canopy For Emergency Clean-up .....  | 325.05                    |                         |
| 02 90 55 00-0162 WK 16' x 16' Canopy For Emergency Clean-up .....   | 650.11                    |                         |
| 02 90 55 00-0163 MO 16' x 16' Canopy For Emergency Clean-up .....   | 1,300.21                  |                         |
| 02 90 55 00-0164 DAY 20' x 20' Canopy For Emergency Clean-up .....  | 432.03                    |                         |
| 02 90 55 00-0165 WK 20' x 20' Canopy For Emergency Clean-up .....   | 864.07                    |                         |
| 02 90 55 00-0166 MO 20' x 20' Canopy For Emergency Clean-up .....   | 1,728.13                  |                         |
| 02 90 55 00-0167 DAY 20' x 30' Canopy For Emergency Clean-up .....  | 493.75                    |                         |
| 02 90 55 00-0168 WK 20' x 30' Canopy For Emergency Clean-up .....   | 987.50                    |                         |
| 02 90 55 00-0169 MO 20' x 30' Canopy For Emergency Clean-up .....   | 1,975.01                  |                         |
| 02 90 55 00-0170 DAY 20' x 40' Canopy For Emergency Clean-up .....  | 576.04                    |                         |
| 02 90 55 00-0171 WK 20' x 40' Canopy For Emergency Clean-up .....   | 1,152.09                  |                         |
| 02 90 55 00-0172 MO 20' x 40' Canopy For Emergency Clean-up .....   | 2,304.18                  |                         |
| 02 90 55 00-0173 DAY First Aid Station For Emergency Clean-up .....   | 311.06                    |                         |
| 02 90 55 00-0174 WK First Aid Station For Emergency Clean-up .....  | 855.43                    |                         |
| 02 90 55 00-0175 MO First Aid Station For Emergency Clean-up .....  | 2,332.98                  |                         |
| 02 90 55 00-0176 DAY Portable Eyewash Station For Emergency Clean-up .....  | 94.47                     |                         |
| 02 90 55 00-0177 WK Portable Eyewash Station For Emergency Clean-up .....   | 259.80                    |                         |
| 02 90 55 00-0178 MO Portable Eyewash Station For Emergency Clean-up .....   | 708.53                    |                         |
| 02 90 55 00-0179 DAY 2 Way Radio For Emergency Clean-up .....   | 39.21                     |                         |
| <br>  |                           |                         |
| 02 90 55 00-0180 Technical/Electronics Restoration Equipment (02 90 55 00-0022)                                       |                           |                         |
| 02 90 55 00-0181 DAY Computer - Diagnostic For Emergency Clean-up .....   | 51.43                     |                         |
| 02 90 55 00-0182 WK Computer - Diagnostic For Emergency Clean-up .....  | 141.44                    |                         |
| 02 90 55 00-0183 MO Computer - Diagnostic For Emergency Clean-up .....  | 385.74                    |                         |
| 02 90 55 00-0184 DAY Convection Oven - Large For Emergency Clean-up .....   | 814.95                    |                         |
| 02 90 55 00-0185 WK Convection Oven - Large For Emergency Clean-up .....  | 2,241.10                  |                         |
| 02 90 55 00-0186 MO Convection Oven - Large For Emergency Clean-up .....  | 6,112.09                  |                         |
| 02 90 55 00-0187 DAY Convection Oven - Small For Emergency Clean-up .....   | 185.16                    |                         |
| 02 90 55 00-0188 WK Convection Oven - Small For Emergency Clean-up .....  | 509.18                    |                         |
| 02 90 55 00-0189 MO Convection Oven - Small For Emergency Clean-up .....  | 1,388.68                  |                         |
| 02 90 55 00-0190 DAY Convection Oven - Vacuum For Emergency Clean-up .....  | 1,163.14                  |                         |
| 02 90 55 00-0191 WK Convection Oven - Vacuum For Emergency Clean-up .....   | 3,198.64                  |                         |
| 02 90 55 00-0192 MO Convection Oven - Vacuum For Emergency Clean-up .....   | 8,723.56                  |                         |
| 02 90 55 00-0193 DAY Decontamination Booth For Emergency Clean-up .....   | 961.50                    |                         |
| 02 90 55 00-0194 WK Decontamination Booth For Emergency Clean-up .....  | 2,644.14                  |                         |
| 02 90 55 00-0195 MO Decontamination Booth For Emergency Clean-up .....  | 7,211.29                  |                         |
| 02 90 55 00-0196 DAY DI Water System For Emergency Clean-up .....   | 74.68                     |                         |
| 02 90 55 00-0197 WK DI Water System For Emergency Clean-up .....  | 205.37                    |                         |
| 02 90 55 00-0198 MO DI Water System For Emergency Clean-up .....  | 560.10                    |                         |
| 02 90 55 00-0199 DAY ESD Bench Workstation For Emergency Clean-up .....   | 45.74                     |                         |
| 02 90 55 00-0200 WK ESD Bench Workstation For Emergency Clean-up .....  | 125.79                    |                         |
| 02 90 55 00-0201 MO ESD Bench Workstation For Emergency Clean-up .....  | 343.06                    |                         |
| 02 90 55 00-0202 DAY Heater/Enclosure Control System For Emergency Clean-up .....                                     | 30.86                     |                         |
| 02 90 55 00-0203 WK Heater/Enclosure Control System For Emergency Clean-up .....                                      | 84.86                     |                         |

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |     |  |          |  |
|------------------|-----|--|----------|--|
| 02 90 55 00-0204 | MO  | Heater/Enclosure Control System For Emergency Clean-up                         | 231.45   |  |
| 02 90 55 00-0205 | DAY | Hi-Tech Mobile Cart/Workstation For Emergency Clean-up                         | 117.62   |  |
| 02 90 55 00-0206 | WK  | Hi-Tech Mobile Cart/Workstation For Emergency Clean-up                         | 323.46   |  |
| 02 90 55 00-0207 | MO  | Hi-Tech Mobile Cart/Workstation For Emergency Clean-up                         | 882.16   |  |
| 02 90 55 00-0208 | DAY | Micro-Blaster/Dust Collector For Emergency Clean-up                            | 462.89   |  |
| 02 90 55 00-0209 | WK  | Micro-Blaster/Dust Collector For Emergency Clean-up                            | 1,272.95 |  |
| 02 90 55 00-0210 | MO  | Micro-Blaster/Dust Collector For Emergency Clean-up                            | 3,471.69 |  |
| 02 90 55 00-0211 | DAY | Mobile Laboratory For Emergency Clean-up                                       | 1,285.81 |  |
| 02 90 55 00-0212 | WK  | Mobile Laboratory For Emergency Clean-up                                       | 3,535.98 |  |
| 02 90 55 00-0213 | MO  | Mobile Laboratory For Emergency Clean-up                                       | 9,643.59 |  |
| 02 90 55 00-0214 | DAY | Nitrogen Enclosure Cabinet For Emergency Clean-up                              | 24.69    |  |
| 02 90 55 00-0215 | WK  | Nitrogen Enclosure Cabinet For Emergency Clean-up                              | 67.89    |  |
| 02 90 55 00-0216 | MO  | Nitrogen Enclosure Cabinet For Emergency Clean-up                              | 185.16   |  |
| 02 90 55 00-0217 | DAY | Odell Cleaning Station For Emergency Clean-up                                  | 720.06   |  |
| 02 90 55 00-0218 | WK  | Odell Cleaning Station For Emergency Clean-up                                  | 1,980.15 |  |
| 02 90 55 00-0219 | MO  | Odell Cleaning Station For Emergency Clean-up                                  | 5,400.41 |  |
| 02 90 55 00-0220 | DAY | Parts Washer For Emergency Clean-up  | 51.43    |  |
| 02 90 55 00-0221 | WK  | Parts Washer For Emergency Clean-up  | 141.44   |  |
| 02 90 55 00-0222 | MO  | Parts Washer For Emergency Clean-up  | 385.74   |  |
| 02 90 55 00-0223 | DAY | Ultrasonic Cleaning System For Emergency Clean-up                              | 350.06   |  |
| 02 90 55 00-0224 | WK  | Ultrasonic Cleaning System For Emergency Clean-up                              | 962.67   |  |
| 02 90 55 00-0225 | MO  | Ultrasonic Cleaning System For Emergency Clean-up                              | 2,625.47 |  |
| 02 90 55 00-0226 | DAY | Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up | 154.91   |  |
| 02 90 55 00-0227 | WK  | Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up | 426.01   |  |
| 02 90 55 00-0228 | MO  | Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up | 1,161.83 |  |

**02 90 55 00-0229 Drying/Dehumidification Equipment (02 90 55 00-0022)**

|   |     |  |           |  |
|---|-----|--|-----------|--|
| 02 90 55 00-0230  | DAY | 202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up           | 227.81    |  |
| Note: Includes 25' high Pressure solution hose and 25' Vacuum hose. |     |  |           |  |
| 02 90 55 00-0231  | WK  | 202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up           | 626.48    |  |
| Note: Includes 25' high Pressure solution hose and 25' Vacuum hose. |     |  |           |  |
| 02 90 55 00-0232  | MO  | 202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up           | 1,708.58  |  |
| Note: Includes 25' high Pressure solution hose and 25' Vacuum hose. |     |  |           |  |
| 02 90 55 00-0233  | DAY | 2,200 CFM Centrifugal Air Mover For Emergency Clean-up                                   | 57.23     |  |
| 02 90 55 00-0234  | WK  | 2,200 CFM Centrifugal Air Mover For Emergency Clean-up                                   | 157.38    |  |
| 02 90 55 00-0235  | MO  | 2,200 CFM Centrifugal Air Mover For Emergency Clean-up                                   | 429.23    |  |
| 02 90 55 00-0236  | DAY | 3,000 CFM Axial Air Mover For Emergency Clean-up   | 95.38     |  |
| 02 90 55 00-0237  | WK  | 3,000 CFM Axial Air Mover For Emergency Clean-up   | 262.31    |  |
| 02 90 55 00-0238  | MO  | 3,000 CFM Axial Air Mover For Emergency Clean-up   | 715.39    |  |
| 02 90 55 00-0239  | DAY | Injectidry System For Emergency Clean-up   | 282.49    |  |
| 02 90 55 00-0240  | WK  | Injectidry System For Emergency Clean-up   | 776.83    |  |
| 02 90 55 00-0241  | MO  | Injectidry System For Emergency Clean-up   | 2,118.64  |  |
| 02 90 55 00-0242  | DAY | Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up   | 182.25    |  |
| 02 90 55 00-0243  | WK  | Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up   | 501.18    |  |
| 02 90 55 00-0244  | MO  | Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up   | 1,366.86  |  |
| 02 90 55 00-0245  | DAY | >100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up | 257.16    |  |
| 02 90 55 00-0246  | WK  | >100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up | 707.20    |  |
| 02 90 55 00-0247  | MO  | >100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up | 1,928.72  |  |
| 02 90 55 00-0248  | DAY | >175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up | 251.68    |  |
| 02 90 55 00-0249  | WK  | >175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up | 692.11    |  |
| 02 90 55 00-0250  | MO  | >175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up | 1,887.57  |  |
| 02 90 55 00-0251  | DAY | Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up                              | 269.03    |  |
| 02 90 55 00-0252  | WK  | Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up                              | 739.84    |  |
| 02 90 55 00-0253  | MO  | Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up                              | 2,017.75  |  |
| 02 90 55 00-0254  | DAY | Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up                              | 269.03    |  |
| 02 90 55 00-0255  | WK  | Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up                              | 739.84    |  |
| 02 90 55 00-0256  | MO  | Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up                              | 2,017.75  |  |
| 02 90 55 00-0257  | DAY | D-500 Desiccant Dehumidifier For Emergency Clean-up                                      | 303.75    |  |
| 02 90 55 00-0258  | WK  | D-500 Desiccant Dehumidifier For Emergency Clean-up                                      | 835.31    |  |
| 02 90 55 00-0259  | MO  | D-500 Desiccant Dehumidifier For Emergency Clean-up                                      | 2,278.11  |  |
| 02 90 55 00-0260  | DAY | D-750 Desiccant Dehumidifier For Emergency Clean-up                                      | 637.87    |  |
| 02 90 55 00-0261  | WK  | D-750 Desiccant Dehumidifier For Emergency Clean-up                                      | 1,754.14  |  |
| 02 90 55 00-0262  | MO  | D-750 Desiccant Dehumidifier For Emergency Clean-up                                      | 4,784.02  |  |
| 02 90 55 00-0263  | DAY | D-1000 Desiccant Dehumidifier For Emergency Clean-up                                     | 1,093.49  |  |
| 02 90 55 00-0264  | WK  | D-1000 Desiccant Dehumidifier For Emergency Clean-up                                     | 3,007.10  |  |
| 02 90 55 00-0265  | MO  | D-1000 Desiccant Dehumidifier For Emergency Clean-up                                     | 8,201.18  |  |
| 02 90 55 00-0266  | DAY | D-1500 Desiccant Dehumidifier For Emergency Clean-up                                     | 1,683.63  |  |
| 02 90 55 00-0267  | WK  | D-1500 Desiccant Dehumidifier For Emergency Clean-up                                     | 4,629.98  |  |
| 02 90 55 00-0268  | MO  | D-1500 Desiccant Dehumidifier For Emergency Clean-up                                     | 12,627.22 |  |
| 02 90 55 00-0269  | DAY | D-2000 Desiccant Dehumidifier For Emergency Clean-up                                     | 1,683.63  |  |
| 02 90 55 00-0270  | WK  | D-2000 Desiccant Dehumidifier For Emergency Clean-up                                     | 4,629.98  |  |
| 02 90 55 00-0271  | MO  | D-2000 Desiccant Dehumidifier For Emergency Clean-up                                     | 12,627.22 |  |
| 02 90 55 00-0272  | DAY | D-2250 Desiccant Dehumidifier For Emergency Clean-up                                     | 1,758.26  |  |
| 02 90 55 00-0273  | WK  | D-2250 Desiccant Dehumidifier For Emergency Clean-up                                     | 4,835.23  |  |
| 02 90 55 00-0274  | MO  | D-2250 Desiccant Dehumidifier For Emergency Clean-up                                     | 13,186.98 |  |
| 02 90 55 00-0275  | DAY | D-3000 Desiccant Dehumidifier For Emergency Clean-up                                     | 2,186.98  |  |
| 02 90 55 00-0276  | WK  | D-3000 Desiccant Dehumidifier For Emergency Clean-up                                     | 6,014.20  |  |
| 02 90 55 00-0277  | MO  | D-3000 Desiccant Dehumidifier For Emergency Clean-up                                     | 16,402.36 |  |
| 02 90 55 00-0278  | DAY | D-4500 Desiccant Dehumidifier For Emergency Clean-up                                     | 2,460.35  |  |
| 02 90 55 00-0279  | WK  | D-4500 Desiccant Dehumidifier For Emergency Clean-up                                     | 6,765.98  |  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                               | DEMOLITION<br>UNIT COST           |
|--|---|-----------------------------------|
| 02 90 55 00-0280 MO D-4500 Desiccant Dehumidifier For Emergency Clean-up .....   | 18,452.66   |                                   |
| 02 90 55 00-0281 DAY D-5000 Desiccant Dehumidifier For Emergency Clean-up .....  | 2,642.60  |                                   |
| 02 90 55 00-0282 WK D-5000 Desiccant Dehumidifier For Emergency Clean-up .....   | 7,267.16  |                                   |
| 02 90 55 00-0283 MO D-5000 Desiccant Dehumidifier For Emergency Clean-up .....   | 19,819.52   |                                   |
| 02 90 55 00-0284 DAY D-9000 Desiccant Dehumidifier For Emergency Clean-up .....  | 3,471.40  |                                   |
| 02 90 55 00-0285 WK D-9000 Desiccant Dehumidifier For Emergency Clean-up .....   | 9,546.35  |                                   |
| 02 90 55 00-0286 MO D-9000 Desiccant Dehumidifier For Emergency Clean-up .....   | 26,035.50   |                                   |
| 02 90 55 00-0287 DAY D-10500 Desiccant Dehumidifier For Emergency Clean-up .....   | 3,644.97  |                                   |
| 02 90 55 00-0288 WK D-10500 Desiccant Dehumidifier For Emergency Clean-up .....  | 10,023.67   |                                   |
| 02 90 55 00-0289 MO D-10500 Desiccant Dehumidifier For Emergency Clean-up .....  | 27,337.28   |                                   |
| 02 90 55 00-0290 DAY 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 637.11  |                                   |
| 02 90 55 00-0291 WK 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 1,752.06  |                                   |
| 02 90 55 00-0292 MO 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 4,778.35  |                                   |
| 02 90 55 00-0293 DAY 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 882.16  |                                   |
| 02 90 55 00-0294 WK 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 2,425.93  |                                   |
| 02 90 55 00-0295 MO 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 6,616.18  |                                   |
| 02 90 55 00-0296 DAY 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 1,093.49  |                                   |
| 02 90 55 00-0297 WK 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 3,007.10  |                                   |
| 02 90 55 00-0298 MO 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 8,201.18  |                                   |
| 02 90 55 00-0299 DAY 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 1,457.99  |                                   |
| 02 90 55 00-0300 WK 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 4,009.47  |                                   |
| 02 90 55 00-0301 MO 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 10,934.91   |                                   |
| 02 90 55 00-0302 DAY 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 2,460.35  |                                   |
| 02 90 55 00-0303 WK 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 6,765.98  |                                   |
| 02 90 55 00-0304 MO 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 18,452.66   |                                   |
| 02 90 55 00-0305 DAY 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....   | 2,733.73  |                                   |
| 02 90 55 00-0306 WK 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 7,517.75  |                                   |
| 02 90 55 00-0307 MO 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....  | 20,502.96   |                                   |
| 02 90 55 00-0308 DAY 25' Flex Duct For Emergency Clean-up.....   | 36.45   |                                   |
| 02 90 55 00-0309 WK 25' Flex Duct For Emergency Clean-up.....  | 100.24  |                                   |
| 02 90 55 00-0310 MO 25' Flex Duct For Emergency Clean-up.....  | 273.37  |                                   |
| 02 90 55 00-0311 DAY Hygrothermograph For Emergency Clean-up.....  | 51.43   |                                   |
| 02 90 55 00-0312 WK Hygrothermograph For Emergency Clean-up.....   | 141.44  |                                   |
| 02 90 55 00-0313 MO Hygrothermograph For Emergency Clean-up.....   | 385.74  |                                   |
| 02 90 55 00-0314 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....  | 9,224.71  |                                   |
| Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.  |   |                                   |
| 02 90 55 00-0315 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....   | 25,367.95   |                                   |
| Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.  |   |                                   |
| 02 90 55 00-0316 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....   | 69,185.32   |                                   |
| Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.  |   |                                   |
| <b>02 90 55 00-0317</b>  | <b>Power Equipment</b>                                  | <small>(02 90 55 00-0022)</small> |
| 02 90 55 00-0318 WK Up to 65 KVA Generator For Emergency Clean-up.....   | 1,213.55  |                                   |
| 02 90 55 00-0319 WK >65 to 125 KVA Generator For Emergency Clean-up.....   | 2,053.70  |                                   |
| 02 90 55 00-0320 WK >125 to 250 KVA Generator For Emergency Clean-up.....  | 2,003.08  |                                   |
| 02 90 55 00-0321 WK >250 to 375 KVA Generator For Emergency Clean-up.....  | 3,453.95  |                                   |
| 02 90 55 00-0322 WK >375 Up to 440 KVA Generator For Emergency Clean-up.....   | 4,667.50  |                                   |
| 02 90 55 00-0323 WK >440 to 625 KVA Generator For Emergency Clean-up.....  | 7,028.35  |                                   |
| 02 90 55 00-0324 WK >625 to 800 KVA Generator For Emergency Clean-up.....  | 7,187.95  |                                   |
| 02 90 55 00-0325 WK >800 to 1,000 KVA Generator For Emergency Clean-up.....  | 9,615.05  |                                   |
| 02 90 55 00-0326 WK >1,000 to 1,500 KVA Generator For Emergency Clean-up.....  | 14,469.25   |                                   |
| 02 90 55 00-0327 EA Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....   | 31.37   |                                   |
| 02 90 55 00-0328 EA Sub-Distribution Panel (Spider Box) For Emergency Clean-up.....  | 150.29  |                                   |
| 02 90 55 00-0329 EA Electrical Distribution Panel For Emergency Clean-up.....  | 350.06  |                                   |
| 02 90 55 00-0330 EA Quad Box Strings (25' Sections) For Emergency Clean-up.....  | 56.48   |                                   |
| 02 90 55 00-0331 EA 50' Power Cord For Spider Box For Emergency Clean-up.....  | 52.28   |                                   |
| 02 90 55 00-0332 EA Pig Tails (Per Each) For Emergency Clean-up.....   | 5.14  |                                   |
| <b>02 90 55 00-0333</b>  | <b>Freight Charges</b>                                  | <small>(02 90 55 00-0022)</small> |
| 02 90 55 00-0334 MI Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment.....  | 2.57  |                                   |
| 02 90 55 00-0335 MI Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment.....   | 4.63  |                                   |
| 02 90 55 00-0336 MI Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment.....   | 4.63  |                                   |
| 02 90 55 00-0337 MI Freight Tractor Trailer For Emergency Clean-up Equipment.....  | 6.69  |                                   |
| <b>02 90 55 00-0338</b>  | <b>Emergency Clean-up Personal Protection Equipment</b> | <small>(02 90 55 00-0001)</small> |
| Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections. |   |                                   |
| 02 90 55 00-0339 EA Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment.....  | 15.08   |                                   |
| 02 90 55 00-0340 EA Tyvek Coveralls With Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....   | 17.78   |                                   |
| 02 90 55 00-0341 EA Tyvek Coveralls With Hood, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....   | 18.63   |                                   |
| 02 90 55 00-0342 EA Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....                                      | 23.49   |                                   |
| 02 90 55 00-0343 EA Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment.....   | 124.85  |                                   |
| 02 90 55 00-0344 EA N95 Respirator For Emergency Clean-up Personal Protection Equipment.....   | 5.23  |                                   |
| 02 90 55 00-0345 EA N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment.....  | 7.44  |                                   |



**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |     |  |       |
|------------------|-----|--|-------|
| 02 90 55 00-0346 | PR  | 3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....   | 49.90 |
| 02 90 55 00-0347 | EA  | Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment .....  | 39.93 |
| 02 90 55 00-0348 | PR  | P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment .....  | 49.90 |
| 02 90 55 00-0349 | EA  | Respirator Cartridge For Emergency Clean-up Personal Protection Equipment .....  | 52.70 |
| 02 90 55 00-0350 | BOX | Dust Mask, Box of 50, For Emergency Clean-up Personal Protection Equipment.....  | 58.75 |
| 02 90 55 00-0351 | PR  | Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....   | 4.20  |
| 02 90 55 00-0352 | BOX | 5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment .....                                   | 27.34 |
| 02 90 55 00-0353 | PR  | 4 Mil, Disposable Nitrile Gloves For Emergency Clean-up Personal Protection Equipment .....  | 0.56  |
| 02 90 55 00-0354 | PR  | 5 Mil, Disposable Vinyl Gloves For Emergency Clean-up Personal Protection Equipment.....   | 0.47  |
| 02 90 55 00-0355 | PR  | 17 Mil, Latex Gloves For Emergency Clean-up Personal Protection Equipment .....  | 2.22  |
| 02 90 55 00-0356 | PR  | 15 Mil, Nitrile Gloves For Emergency Clean-up Personal Protection Equipment.....   | 5.28  |
| 02 90 55 00-0357 | PR  | Vinyl Coated Gloves With Knit Lining For Emergency Clean-up Personal Protection Equipment .....  | 7.24  |
| 02 90 55 00-0358 | PR  | 30 Mil, Polyvinyl Chloride (PVC) And Polyvinyl Chloride (PVC) Blend Gloves For Emergency Clean-up Personal<br>Protection Equipment ..... | 8.11  |
| 02 90 55 00-0359 | PR  | Leather Gloves For Emergency Clean-up Personal Protection Equipment .....  | 13.68 |
| 02 90 55 00-0360 | EA  | Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment .....   | 23.35 |
| 02 90 55 00-0361 | PR  | Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....  | 15.22 |
| 02 90 55 00-0362 | PR  | Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal<br>Protection Equipment .....        | 25.10 |
| 02 90 55 00-0363 | PR  | Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....   | 6.67  |
| 02 90 55 00-0364 | EA  | Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment.....  | 9.11  |

**02 90 55 00-0365****Emergency Clean-up Expendables** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

**02 90 55 00-0366****General Materials** (02 90 55 00-0365)

|                  |      |  |        |
|------------------|------|--|--------|
| 02 90 55 00-0367 | GAL  | Adhesive Remover For Emergency Clean-up.....   | 109.35 |
| 02 90 55 00-0368 | GAL  | Bioside-HS Cleaning Solution For Emergency Clean-up.....   | 35.07  |
| 02 90 55 00-0369 | GAL  | Bioicide Mold Cleaning Solution For Emergency Clean-up .....                                       | 44.75  |
| 02 90 55 00-0370 | EA   | 10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....                                  | 5.76   |
| 02 90 55 00-0371 | EA   | 10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up.....                                  | 8.75   |
| 02 90 55 00-0372 | EA   | 10" x 15" x 24" Cardboard Storage Box For Emergency Clean-up.....                                  | 8.75   |
| 02 90 55 00-0373 | GAL  | Bleach For Emergency Clean-up.....   | 11.76  |
| 02 90 55 00-0374 | EA   | Small Stainless Brush For Emergency Clean-up .....   | 7.47   |
| 02 90 55 00-0375 | EA   | 2-1/2 Gallon Buckets For Emergency Clean-up.....   | 8.69   |
| 02 90 55 00-0376 | EA   | 5 Gallon Bucket For Emergency Clean-up.....  | 13.17  |
| 02 90 55 00-0377 | GAL  | Carpet Defoamer For Emergency Clean-up .....   | 33.87  |
| 02 90 55 00-0378 | GAL  | Carpet Pre-treat For Emergency Clean-up .....  | 27.63  |
| 02 90 55 00-0379 | GAL  | Carpet Spotter For Emergency Clean-up.....   | 46.30  |
| 02 90 55 00-0380 | GAL  | Carpet/Upholstery Cleaner For Emergency Clean-up .....   | 37.34  |
| 02 90 55 00-0381 | ROL  | Carpet Masking/Shield For Emergency Clean-up.....  | 107.47 |
| 02 90 55 00-0382 | EA   | Chemical Sponge For Emergency Clean-up.....  | 4.30   |
| 02 90 55 00-0383 | GAL  | Clear Seal For Emergency Clean-up .....  | 147.02 |
| 02 90 55 00-0384 | GAL  | Coil Cleaner For Emergency Clean-up .....  | 73.99  |
| 02 90 55 00-0385 | EA   | Decontamination Chamber For Emergency Clean-up .....   | 321.50 |
| 02 90 55 00-0386 | GAL  | All Purpose Degreaser For Emergency Clean-up.....  | 48.11  |
| 02 90 55 00-0387 | GAL  | De-Foamer Liquid For Emergency Clean-up .....  | 63.24  |
| 02 90 55 00-0388 | EA   | Deodorization Membrane For Emergency Clean-up.....   | 117.94 |
| 02 90 55 00-0389 | GAL  | 9-D-9 Smoke Deodorizer For Emergency Clean-up .....  | 189.02 |
| 02 90 55 00-0390 | LB   | Deodorizing Gel For Emergency Clean-up .....   | 44.41  |
| 02 90 55 00-0391 | GAL  | Deodorizing Liquid For Emergency Clean-up .....  | 62.54  |
| 02 90 55 00-0392 | PAIL | Deodorizing Block For Emergency Clean-up .....   | 11.16  |
| 02 90 55 00-0393 | GAL  | Disinfectant/Anti-microbial For Emergency Clean-up.....  | 115.22 |
| 02 90 55 00-0394 | GAL  | BruClean Disinfectant For Emergency Clean-up .....   | 37.64  |
| 02 90 55 00-0395 | GAL  | Dryclean For Emergency Clean-up.....   | 49.14  |
| 02 90 55 00-0396 | GAL  | Duct Sealant Spray For Emergency Clean-up .....  | 74.06  |
| 02 90 55 00-0397 | GAL  | Antifungal Duct Sealant For Emergency Clean-up .....   | 106.98 |
| 02 90 55 00-0398 | GAL  | Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up .....                               | 170.46 |
| 02 90 55 00-0399 | PR   | Ear Plugs For Emergency Clean-up Personal Protection Equipment.....                                | 0.67   |
| 02 90 55 00-0400 | GAL  | Encapsulant For Emergency Clean-up.....  | 122.48 |
| 02 90 55 00-0401 | GAL  | Aftershock Fiberlocke For Emergency Clean-up .....   | 107.54 |
| 02 90 55 00-0402 | GAL  | IAQ 2500 Fiberlocke For Emergency Clean-up .....   | 127.03 |
| 02 90 55 00-0403 | GAL  | IAS 6000 Fiberlocke For Emergency Clean-up.....  | 130.65 |
| 02 90 55 00-0404 | EA   | Filter Material For Emergency Clean-up .....   | 288.34 |
| 02 90 55 00-0405 | EA   | Blue Paper Collection Bag Filter For Emergency Clean-up.....                                       | 7.77   |
| 02 90 55 00-0406 | EA   | CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....          | 616.71 |
| 02 90 55 00-0407 | EA   | Pre-Filter For Negative Air Machine For Emergency Clean-up.....                                    | 2.96   |
| 02 90 55 00-0408 | EA   | Pleated Filter For Negative Air Machine For Emergency Clean-up .....                               | 13.17  |
| 02 90 55 00-0409 | EA   | Charcoal Filter For Negative Air Machine For Emergency Clean-up .....                              | 46.90  |
| 02 90 55 00-0410 | EA   | High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up..... | 446.05 |
| 02 90 55 00-0411 | EA   | Pleated Dehumidifier Filter For Emergency Clean-up.....  | 11.77  |
| 02 90 55 00-0412 | GAL  | Floor Stripper For Emergency Clean-up .....  | 23.04  |
| 02 90 55 00-0413 | GAL  | Floor Wax For Emergency Clean-up .....   | 32.92  |
| 02 90 55 00-0414 | GAL  | Fogger (Thermal) For Emergency Clean-up .....  | 200.48 |
| 02 90 55 00-0415 | BOX  | Furniture Blocks For Emergency Clean-up .....  | 161.48 |
| 02 90 55 00-0416 | EA   | Furniture Polish, Per 10 Oz Can For Emergency Clean-up .....                                       | 21.76  |
| 02 90 55 00-0417 | GAL  | Glass Cleaner For Emergency Clean-up .....   | 14.51  |
| 02 90 55 00-0418 | EA   | Goof Off Spray, 12 Oz For Emergency Clean-up .....   | 18.67  |
| 02 90 55 00-0419 | EA   | Halogen Light Bulbs For Emergency Clean-up.....  | 23.50  |
| 02 90 55 00-0420 | QT   | Hand Sanitizer For Emergency Clean-up .....  | 11.62  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 02 90 55 00-0421 EA Hard Hats For Emergency Clean-up Personal Protection Equipment .....      | 9.57                      |                         |
| 02 90 55 00-0422 BOX Hog Rings, Box Of 2,500 For Emergency Clean-up .....                     | 22.75                     |                         |
| 02 90 55 00-0423 GAL HVAC Coal Cleaner For Emergency Clean-up .....                           | 71.32                     |                         |
| 02 90 55 00-0424 BOX Inventory Tag, Box Of 1,000 For Emergency Clean-up .....                 | 160.01                    |                         |
| 02 90 55 00-0425 EA Utility Knives For Emergency Clean-up .....                               | 18.10                     |                         |
| 02 90 55 00-0426 ROL 13" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....             | 137.26                    |                         |
| 02 90 55 00-0427 ROL 20" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....             | 144.91                    |                         |
| 02 90 55 00-0428 ROL 29" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....             | 288.52                    |                         |
| 02 90 55 00-0429 ROL 39" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....             | 417.03                    |                         |
| 02 90 55 00-0430 GAL Lemon Oil For Emergency Clean-up .....                                   | 58.32                     |                         |
| 02 90 55 00-0431 GAL LPS 1/Mecca Lube For Emergency Clean-up .....                            | 59.81                     |                         |
| 02 90 55 00-0432 GAL LPS 2 For Emergency Clean-up .....                                       | 63.30                     |                         |
| 02 90 55 00-0433 GAL LPS Contact Cleaner For Emergency Clean-up .....                         | 63.00                     |                         |
| 02 90 55 00-0434 GAL Light Lubricant Preserve For Emergency Clean-up .....                    | 167.03                    |                         |
| 02 90 55 00-0435 GAL Heavy Lubricant Preserver For Emergency Clean-up .....                   | 32.92                     |                         |
| 02 90 55 00-0436 GAL Machinery Cleaning Solvent For Emergency Clean-up .....                  | 279.21                    |                         |
| 02 90 55 00-0437 GAL Metal Polishing Paste For Emergency Clean-up .....                       | 30.92                     |                         |
| 02 90 55 00-0438 GAL MediClean® Disinfectant For Emergency Clean-up .....                     | 66.52                     |                         |
| 02 90 55 00-0439 GAL Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up .....                | 81.65                     |                         |
| 02 90 55 00-0440 EA Mop Heads For Emergency Clean-up .....                                    | 10.36                     |                         |
| 02 90 55 00-0441 EA Nylon Scouring Pads For Emergency Clean-up .....                          | 1.81                      |                         |
| 02 90 55 00-0442 GAL Odor Neutralizer For Emergency Clean-up .....                            | 46.30                     |                         |
| 02 90 55 00-0443 EA Packing Paper, 25 LB Bundle For Emergency Clean-up .....                  | 83.21                     |                         |
| 02 90 55 00-0444 EA Paint Brushes For Emergency Clean-up .....                                | 8.23                      |                         |
| 02 90 55 00-0445 ROL Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up .....          | 194.05                    |                         |
| 02 90 55 00-0446 EA Putty Knives For Emergency Clean-up .....                                 | 7.46                      |                         |
| 02 90 55 00-0447 ROL Red Resin Paper, 200' Roll For Emergency Clean-up .....                  | 42.34                     |                         |
| 02 90 55 00-0448 GAL Reodorant For Emergency Clean-up .....                                   | 139.90                    |                         |
| 02 90 55 00-0449 GAL Restoracide For Emergency Clean-up .....                                 | 65.62                     |                         |
| 02 90 55 00-0450 GAL Rust Remover For Emergency Clean-up .....                                | 102.06                    |                         |
| 02 90 55 00-0451 EA Saltesmo Test Samples For Emergency Clean-up .....                        | 9.48                      |                         |
| 02 90 55 00-0452 EA Sand Bag For Emergency Clean-up .....                                     | 2.49                      |                         |
| Note: Excludes sand material  |                           |                         |
| 02 90 55 00-0453 EA Scotch-Brite 7447, Per Box 50 For Emergency Clean-up .....                | 33.32                     |                         |
| 02 90 55 00-0454 EA Small Scrub Brushes For Emergency Clean-up .....                          | 17.18                     |                         |
| 02 90 55 00-0455 GAL Clear Soot Sealant For Emergency Clean-up .....                          | 118.36                    |                         |
| 02 90 55 00-0456 GAL Pigmented Soot Sealant For Emergency Clean-up .....                      | 319.20                    |                         |
| 02 90 55 00-0457 ROL Shrinkwrap Plastic For Emergency Clean-up .....                          | 73.48                     |                         |
| 02 90 55 00-0458 EA Dry Sponges For Emergency Clean-up .....                                  | 5.97                      |                         |
| 02 90 55 00-0459 EA Spray Adhesive, Per Can For Emergency Clean-up .....                      | 7.66                      |                         |
| 02 90 55 00-0460 EA Spray Bot./Trigger For Emergency Clean-up .....                           | 6.35                      |                         |
| 02 90 55 00-0461 GAL Stain Remover For Emergency Clean-up .....                               | 41.82                     |                         |
| 02 90 55 00-0462 GAL Stainless Steel Cleaner For Emergency Clean-up .....                     | 14.44                     |                         |
| 02 90 55 00-0463 EA Stainless Steel Polish, Per Can For Emergency Clean-up .....              | 18.95                     |                         |
| 02 90 55 00-0464 LB Sweeping Compound For Emergency Clean-up .....                            | 0.68                      |                         |
| 02 90 55 00-0465 ROL Duct Tape, 2" x 50 YD For Emergency Clean-up .....                       | 15.00                     |                         |
| 02 90 55 00-0466 ROL Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up .....    | 14.11                     |                         |
| 02 90 55 00-0467 ROL HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up .....              | 36.21                     |                         |
| 02 90 55 00-0468 ROL Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up ..... | 20.08                     |                         |
| 02 90 55 00-0469 ROL Poly Box Tape, 2" x 110 YD For Emergency Clean-up .....                  | 6.19                      |                         |
| 02 90 55 00-0470 LB Terry Towels For Emergency Clean-up .....                                 | 8.48                      |                         |
| 02 90 55 00-0471 GAL Thermal Fog For Emergency Clean-up .....                                 | 94.10                     |                         |
| 02 90 55 00-0472 ROL 1.7 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....      | 46.66                     |                         |
| 02 90 55 00-0473 ROL 3 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....        | 109.04                    |                         |
| 02 90 55 00-0474 ROL 4 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....        | 139.90                    |                         |
| 02 90 55 00-0475 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....        | 186.07                    |                         |
| 02 90 55 00-0476 EA Trisodium Phosphate, 20 LB Pail For Emergency Clean-up .....              | 60.06                     |                         |
| 02 90 55 00-0477 EA Backpack Vacuum Bags For Emergency Clean-up .....                         | 2.02                      |                         |
| 02 90 55 00-0478 EA Upright Vacuum Bags For Emergency Clean-up .....                          | 2.70                      |                         |
| 02 90 55 00-0479 GAL Vinyl And Leather Cleaner For Emergency Clean-up .....                   | 37.34                     |                         |
| 02 90 55 00-0480 ROL 1 Mil Visqueen, 12' x 400', For Emergency Clean-up .....                 | 60.44                     |                         |
| 02 90 55 00-0481 ROL 4 Mil Visqueen, 32' x 100', For Emergency Clean-up .....                 | 164.13                    |                         |
| 02 90 55 00-0482 ROL 6 Mil Visqueen, 32' x 400', For Emergency Clean-up .....                 | 223.95                    |                         |
| 02 90 55 00-0483 LB Wipes, Cotton Cloth For Emergency Clean-up .....                          | 6.35                      |                         |
| 02 90 55 00-0484 ROL 12" x 750', Wrap, Bubble/Anti-static For Emergency Clean-up .....        | 184.33                    |                         |
| 02 90 55 00-0485 EA Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up .....                  | 18.67                     |                         |
| 02 90 55 00-0486 EA Zip Wall Zippers For Emergency Clean-up .....                             | 27.98                     |                         |
| 02 90 55 00-0487 EA Absorbent Matt Roll For Oil And Other Liquids - 15" Wide x 50' Roll ..... | 33.53                     |                         |
| Note: 3.3 gallon volume absorption capacity per roll  |                           |                         |
| 02 90 55 00-0488 EA Oil Only Sorbent Pads - 15" x 19", Light, Package Of 100 .....            | 50.29                     |                         |
| Note: 26 OZ volume absorption capacity per pad  |                           |                         |
| 02 90 55 00-0489 EA Oil Only Sorbent Pads - 15" x 19", Medium, Package Of 100 .....           | 52.99                     |                         |
| Note: 33 OZ volume absorption capacity per pad  |                           |                         |
| 02 90 55 00-0490 EA Oil Only Sorbent Pads - 15" x 19", Heavy, Package Of 100 .....            | 86.52                     |                         |
| Note: 45 OZ volume absorption capacity per pad  |                           |                         |
| <b>02 90 55 00-0491</b> Technical/Electronics Restoration Materials (02 90 55 00-0365)        |                           |                         |
| 02 90 55 00-0492 EA Brush - Brass For Emergency Clean-up .....                                | 6.17                      |                         |
| 02 90 55 00-0493 EA 1" Brush, Natural Bristle For Emergency Clean-up .....                    | 1.98                      |                         |
| 02 90 55 00-0494 EA 1/2" Brush, Natural Bristle For Emergency Clean-up .....                  | 1.65                      |                         |

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |     |   |        |  |
|------------------|-----|---|--------|--|
| 02 90 55 00-0495 | EA  | 1/4" Brush, Natural Bristle For Emergency Clean-up          | 1.40   |  |
| 02 90 55 00-0496 | EA  | Brush - Parts For Emergency Clean-up                        | 8.56   |  |
| 02 90 55 00-0497 | EA  | Brush - Plastic For Emergency Clean-up                      | 4.44   |  |
| 02 90 55 00-0498 | EA  | Brush - Wire Grout For Emergency Clean-up                   | 9.80   |  |
| 02 90 55 00-0499 | EA  | Brushing Tool For Emergency Clean-up                        | 18.90  |  |
| 02 90 55 00-0500 | EA  | Cleaning Swabs, Cotton For Emergency Clean-up               | 0.41   |  |
| 02 90 55 00-0501 | EA  | Cleaning Swabs, Foam Tip For Emergency Clean-up             | 0.49   |  |
| 02 90 55 00-0502 | EA  | Contact Restorer, Per Can For Emergency Clean-up            | 37.42  |  |
| 02 90 55 00-0503 | EA  | Contact Spray, Per Can For Emergency Clean-up               | 25.46  |  |
| 02 90 55 00-0504 | UNT | Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up   | 3.95   |  |
| 02 90 55 00-0505 | UNT | Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up   | 11.32  |  |
| 02 90 55 00-0506 | UNT | Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up  | 14.66  |  |
| 02 90 55 00-0507 | LB  | Cotton Cleaning Cloths For Emergency Clean-up               | 23.14  |  |
| 02 90 55 00-0508 | EA  | 12" x 17" Dust Cloths For Emergency Clean-up                | 0.37   |  |
| 02 90 55 00-0509 | EA  | 24" x 24" Dust Cloths For Emergency Clean-up                | 1.01   |  |
| 02 90 55 00-0510 | EA  | Deoxidizing Agent, Per Can For Emergency Clean-up           | 18.13  |  |
| 02 90 55 00-0511 | GAL | Electronic Grade Detergent For Emergency Clean-up           | 42.01  |  |
| 02 90 55 00-0512 | SHT | Inventory Labels For Emergency Clean-up                     | 0.22   |  |
| 02 90 55 00-0513 | GAL | Isopropyl Alcohol For Emergency Clean-up                    | 111.32 |  |
| 02 90 55 00-0514 | GAL | Lubrication/Penetrating Oil, Per Can For Emergency Clean-up | 168.42 |  |
| 02 90 55 00-0515 | GAL | PC Board Detergent For Emergency Clean-up                   | 105.69 |  |
| 02 90 55 00-0516 | GAL | Rust Inhibitor, Regular Duty For Emergency Clean-up         | 180.43 |  |
| 02 90 55 00-0517 | GAL | Rust Inhibitor, Moderate Duty For Emergency Clean-up        | 181.78 |  |
| 02 90 55 00-0518 | GAL | Rust Inhibitor, Severe Duty For Emergency Clean-up          | 194.30 |  |
| 02 90 55 00-0519 | LB  | Wipes, Lint Free Cloths For Emergency Clean-up              | 7.34   |  |
| 02 90 55 00-0520 | EA  | Wire Marker Card For Emergency Clean-up                     | 2.88   |  |
| 02 90 55 00-0521 | EA  | Steel Wool, 16 Pad Sleeve For Emergency Clean-up            | 1.58   |  |

**END OF SECTION 02**



|  | MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|------------------------------|---------------------------|-------------------------|
|--|------------------------------|---------------------------|-------------------------|

## 05 Metals

### 05 05 Common Work Results for Metals <sup>(05)</sup>

#### 05 05 19 Post-Installed Concrete Anchors <sup>(05 05)</sup>

- 05 05 19 00-0001 Concrete And Masonry Anchors <sup>(05 05 19)</sup>
- 05 05 19 00-0002 Expansion Anchors <sup>(05 05 19 00-0001)</sup>  
Note: Includes drilling.
- 05 05 19 00-0003 Wedge Expansion Bolt Anchors <sup>(05 05 19 00-0002)</sup>
- 05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt <sup>(05 05 19 00-0003)</sup>  
Note: Includes nut and washer.

|                  |  |       |  |
|------------------|--|-------|--|
| 05 05 19 00-0005 | EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 13.41 |  |
|                  | For >10 To 50, Deduct  | -0.63 |  |
|                  | For >50 To 100, Deduct   | -1.27 |  |
|                  | For >100, Deduct   | -2.55 |  |
| 05 05 19 00-0006 | EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 13.55 |  |
|                  | For >10 To 50, Deduct  | -0.63 |  |
|                  | For >50 To 100, Deduct   | -1.28 |  |
|                  | For >100, Deduct   | -2.56 |  |
| 05 05 19 00-0007 | EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 13.99 |  |
|                  | For >10 To 50, Deduct  | -0.64 |  |
|                  | For >50 To 100, Deduct   | -1.32 |  |
|                  | For >100, Deduct   | -2.63 |  |
| 05 05 19 00-0008 | EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 16.49 |  |
|                  | For >10 To 50, Deduct  | -0.76 |  |
|                  | For >50 To 100, Deduct   | -1.56 |  |
|                  | For >100, Deduct   | -3.11 |  |
| 05 05 19 00-0009 | EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 16.59 |  |
|                  | For >10 To 50, Deduct  | -0.76 |  |
|                  | For >50 To 100, Deduct   | -1.56 |  |
|                  | For >100, Deduct   | -3.12 |  |
| 05 05 19 00-0010 | EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....     | 16.63 |  |
|                  | For >10 To 50, Deduct  | -0.76 |  |
|                  | For >50 To 100, Deduct   | -1.56 |  |
|                  | For >100, Deduct   | -3.12 |  |
| 05 05 19 00-0011 | EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....     | 17.03 |  |
|                  | For >10 To 50, Deduct  | -0.76 |  |
|                  | For >50 To 100, Deduct   | -1.57 |  |
|                  | For >100, Deduct   | -3.14 |  |
| 05 05 19 00-0012 | EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 23.94 |  |
|                  | For >10 To 50, Deduct  | -1.08 |  |
|                  | For >50 To 100, Deduct   | -2.22 |  |
|                  | For >100, Deduct   | -4.45 |  |
| 05 05 19 00-0013 | EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 24.02 |  |
|                  | For >10 To 50, Deduct  | -1.08 |  |
|                  | For >50 To 100, Deduct   | -2.23 |  |
|                  | For >100, Deduct   | -4.45 |  |
| 05 05 19 00-0014 | EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 24.18 |  |
|                  | For >10 To 50, Deduct  | -1.08 |  |
|                  | For >50 To 100, Deduct   | -2.23 |  |
|                  | For >100, Deduct   | -4.46 |  |
| 05 05 19 00-0015 | EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 24.63 |  |
|                  | For >10 To 50, Deduct  | -1.08 |  |
|                  | For >50 To 100, Deduct   | -2.24 |  |
|                  | For >100, Deduct   | -4.48 |  |
| 05 05 19 00-0016 | EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....     | 25.25 |  |
|                  | For >10 To 50, Deduct  | -1.08 |  |
|                  | For >50 To 100, Deduct   | -2.26 |  |
|                  | For >100, Deduct   | -4.51 |  |
| 05 05 19 00-0017 | EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 31.30 |  |
|                  | For >10 To 50, Deduct  | -1.34 |  |
|                  | For >50 To 100, Deduct   | -2.79 |  |
|                  | For >100, Deduct   | -5.58 |  |
| 05 05 19 00-0018 | EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt ..... | 31.44 |  |
|                  | For >10 To 50, Deduct  | -1.34 |  |
|                  | For >50 To 100, Deduct   | -2.79 |  |
|                  | For >100, Deduct   | -5.58 |  |
| 05 05 19 00-0019 | EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....     | 31.72 |  |
|                  | For >10 To 50, Deduct  | -1.34 |  |
|                  | For >50 To 100, Deduct   | -2.80 |  |
|                  | For >100, Deduct   | -5.60 |  |
| 05 05 19 00-0020 | EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....     | 32.27 |  |
|                  | For >10 To 50, Deduct  | -1.34 |  |
|                  | For >50 To 100, Deduct   | -2.81 |  |
|                  | For >100, Deduct   | -5.62 |  |
| 05 05 19 00-0021 | EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....     | 32.82 |  |
|                  | For >10 To 50, Deduct  | -1.34 |  |
|                  | For >50 To 100, Deduct   | -2.83 |  |
|                  | For >100, Deduct   | -5.65 |  |

**05 Metals****05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 05 05 19 00-0022 | EA  |     | 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....            | 37.17                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.93                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -5.87                  |                      |
| 05 05 19 00-0023 | EA  |     | 5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                | 40.90                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.03                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.06                  |                      |
| 05 05 19 00-0024 | EA  |     | 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....            | 37.85                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.33                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.67                  |                      |
| 05 05 19 00-0025 | EA  |     | 3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....            | 37.97                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.34                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.67                  |                      |
| 05 05 19 00-0026 | EA  |     | 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....            | 38.63                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.35                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.70                  |                      |
| 05 05 19 00-0027 | EA  |     | 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....            | 39.43                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.37                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.74                  |                      |
| 05 05 19 00-0028 | EA  |     | 3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                 | 40.35                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.40                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.79                  |                      |
| 05 05 19 00-0029 | EA  |     | 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....            | 43.83                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.48                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -6.96                  |                      |
| 05 05 19 00-0030 | EA  |     | 3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                | 48.46                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.60                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -7.20                  |                      |
| 05 05 19 00-0031 | EA  |     | 3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                | 53.69                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.73                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -7.46                  |                      |
| 05 05 19 00-0032 | EA  |     | 7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                 | 51.76                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.73                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.88                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -7.77                  |                      |
| 05 05 19 00-0033 | EA  |     | 7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                 | 54.51                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.73                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.95                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -7.90                  |                      |
| 05 05 19 00-0034 | EA  |     | 7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                | 58.15                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.73                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.04                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -8.09                  |                      |
| 05 05 19 00-0035 | EA  |     | 1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                   | 63.85                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -2.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.95                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -9.89                  |                      |
| 05 05 19 00-0036 | EA  |     | 1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                   | 69.03                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -2.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -5.08                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -10.15                 |                      |
| 05 05 19 00-0037 | EA  |     | 1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....                  | 74.16                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -2.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -5.21                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -10.41                 |                      |
| 05 05 19 00-0038 | EA  |     | 1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....              | 83.30                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -2.86                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -6.37                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -12.75                 |                      |
| 05 05 19 00-0039 | EA  |     | 1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....             | 87.00                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -2.86                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -6.47                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -12.93                 |                      |
| 05 05 19 00-0040 |     |     | <b>304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small> |                        |                      |
|                  |     |     | Note: Includes nut and washer.   |                        |                      |
| 05 05 19 00-0041 | EA  |     | 1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....      | 15.08                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.63                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.32                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -2.63                  |                      |
| 05 05 19 00-0042 | EA  |     | 1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....      | 15.67                  |                      |
|                  |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.63                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.33                  |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>   | -2.66                  |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 05 05 19 00-0043 | EA    |     |     | 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 16.39                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.38                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -2.75                  |                      |
| 05 05 19 00-0044 | EA    |     |     | 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 19.53                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.63                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -3.26                  |                      |
| 05 05 19 00-0045 | EA    |     |     | 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 20.04                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.64                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -3.29                  |                      |
| 05 05 19 00-0046 | EA    |     |     | 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 20.41                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.65                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -3.31                  |                      |
| 05 05 19 00-0047 | EA    |     |     | 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 23.20                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.72                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -3.44                  |                      |
| 05 05 19 00-0048 | EA    |     |     | 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 30.68                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.39                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -4.78                  |                      |
| 05 05 19 00-0049 | EA    |     |     | 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 31.65                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.42                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -4.83                  |                      |
| 05 05 19 00-0050 | EA    |     |     | 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 32.20                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.43                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -4.86                  |                      |
| 05 05 19 00-0051 | EA    |     |     | 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 34.74                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.49                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -4.99                  |                      |
| 05 05 19 00-0052 | EA    |     |     | 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 38.55                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.59                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -5.18                  |                      |
| 05 05 19 00-0053 | EA    |     |     | 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 45.01                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.13                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -6.26                  |                      |
| 05 05 19 00-0054 | EA    |     |     | 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 47.49                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.19                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -6.39                  |                      |
| 05 05 19 00-0055 | EA    |     |     | 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 50.17                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.26                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -6.52                  |                      |
| 05 05 19 00-0056 | EA    |     |     | 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 53.74                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.35                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -6.70                  |                      |
| 05 05 19 00-0057 | EA    |     |     | 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 69.39                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.74                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -7.48                  |                      |
| 05 05 19 00-0058 | EA    |     |     | 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 53.76                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.73                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -7.46                  |                      |
| 05 05 19 00-0059 | EA    |     |     | 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 58.80                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.86                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -7.71                  |                      |
| 05 05 19 00-0060 | EA    |     |     | 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 63.10                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.96                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -7.93                  |                      |
| 05 05 19 00-0061 | EA    |     |     | 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 63.63                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.98                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -7.95                  |                      |
| 05 05 19 00-0062 | EA    |     |     | 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....     | 67.67                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.08                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -8.16                  |                      |
| 05 05 19 00-0063 | EA    |     |     | 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt..... | 78.15                  |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.34                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>  | -8.68                  |                      |

**05 Metals****05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 05 19 00-0064        | EA  |     | 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....            | 92.94                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.71                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -9.42                  |                      |
| 05 05 19 00-0065        | EA  |     | 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....             | 92.90                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.73                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.91                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -9.82                  |                      |
| 05 05 19 00-0066        | EA  |     | 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....               | 136.24                 |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -6.76                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -13.51                 |                      |
| 05 05 19 00-0067        | EA  |     | 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....               | 158.12                 |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -7.30                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -14.61                 |                      |
| <b>05 05 19 00-0068</b> |     |     | <b>316 Stainless Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>         |                        |                      |
|                         |     |     | Note: Includes nut and washer.  |                        |                      |
| 05 05 19 00-0069        | EA  |     | 1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 15.59                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.63                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.33                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.66                  |                      |
| 05 05 19 00-0070        | EA  |     | 1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 16.62                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.38                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.76                  |                      |
| 05 05 19 00-0071        | EA  |     | 3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 21.19                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.67                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.34                  |                      |
| 05 05 19 00-0072        | EA  |     | 3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 22.07                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.69                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.39                  |                      |
| 05 05 19 00-0073        | EA  |     | 3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....                  | 22.30                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.70                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.40                  |                      |
| 05 05 19 00-0074        | EA  |     | 3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....                  | 26.50                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.76                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.80                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.61                  |                      |
| 05 05 19 00-0075        | EA  |     | 1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 34.70                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.49                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.99                  |                      |
| 05 05 19 00-0076        | EA  |     | 1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 37.13                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.55                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -5.11                  |                      |
| 05 05 19 00-0077        | EA  |     | 1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 41.56                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.66                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -5.33                  |                      |
| 05 05 19 00-0078        | EA  |     | 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 42.67                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.69                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -5.38                  |                      |
| 05 05 19 00-0079        | EA  |     | 5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....                  | 58.57                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.47                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -6.94                  |                      |
| 05 05 19 00-0080        | EA  |     | 5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....                  | 59.90                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.50                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -7.01                  |                      |
| 05 05 19 00-0081        | EA  |     | 3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 72.73                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.20                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -8.41                  |                      |
| 05 05 19 00-0082        | EA  |     | 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....              | 78.26                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.34                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -8.69                  |                      |
| <b>05 05 19 00-0083</b> |     |     | <b>Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small> |                        |                      |
|                         |     |     | Note: Includes nut and washer.  |                        |                      |
| 05 05 19 00-0084        | EA  |     | 1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....      | 27.46                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.31                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.62                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 19 00-0085 EA 1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt ..... | 28.98                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.08                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -2.35                     |                         |
| <i>For &gt;100, Deduct</i>  | -4.70                     |                         |
| 05 05 19 00-0086 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt ..... | 30.51                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.08                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -2.39                     |                         |
| <i>For &gt;100, Deduct</i>  | -4.78                     |                         |
| 05 05 19 00-0087 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....      | 31.27                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.08                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -2.41                     |                         |
| <i>For &gt;100, Deduct</i>  | -4.81                     |                         |
| 05 05 19 00-0088 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt ..... | 37.71                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.34                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -2.95                     |                         |
| <i>For &gt;100, Deduct</i>  | -5.90                     |                         |
| 05 05 19 00-0089 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....      | 35.88                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.34                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -2.90                     |                         |
| <i>For &gt;100, Deduct</i>  | -5.81                     |                         |
| 05 05 19 00-0090 EA 3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt ..... | 48.90                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.59                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -3.61                     |                         |
| <i>For &gt;100, Deduct</i>  | -7.22                     |                         |
| 05 05 19 00-0091 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt ..... | 50.58                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.59                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -3.65                     |                         |
| <i>For &gt;100, Deduct</i>  | -7.30                     |                         |
| 05 05 19 00-0092 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt ..... | 58.82                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.59                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -3.86                     |                         |
| <i>For &gt;100, Deduct</i>  | -7.71                     |                         |
| 05 05 19 00-0093 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....        | 62.25                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -4.91                     |                         |
| <i>For &gt;100, Deduct</i>  | -9.81                     |                         |
| 05 05 19 00-0094 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....        | 67.00                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -5.03                     |                         |
| <i>For &gt;100, Deduct</i>  | -10.05                    |                         |
| 05 05 19 00-0095 EA 1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....       | 71.70                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -5.14                     |                         |
| <i>For &gt;100, Deduct</i>  | -10.29                    |                         |
| <b>05 05 19 00-0096 Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small></b>                                 |                           |                         |
| <b>05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small></b>              |                           |                         |
| Note: Includes nut and washer.  |                           |                         |
| 05 05 19 00-0098 EA 1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                  | 13.46                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.30                     |                         |
| <i>For &gt;100, Deduct</i>  | -2.59                     |                         |
| 05 05 19 00-0099 EA 1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                | 13.66                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.30                     |                         |
| <i>For &gt;100, Deduct</i>  | -2.60                     |                         |
| 05 05 19 00-0100 EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                | 13.90                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.31                     |                         |
| <i>For &gt;100, Deduct</i>  | -2.62                     |                         |
| 05 05 19 00-0101 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....               | 14.18                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.67                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.36                     |                         |
| <i>For &gt;100, Deduct</i>  | -2.73                     |                         |
| 05 05 19 00-0102 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....               | 14.36                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.67                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.37                     |                         |
| <i>For &gt;100, Deduct</i>  | -2.73                     |                         |
| 05 05 19 00-0103 EA 3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                | 16.07                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.76                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.54                     |                         |
| <i>For &gt;100, Deduct</i>  | -3.09                     |                         |
| 05 05 19 00-0104 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                    | 16.40                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.76                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.55                     |                         |
| <i>For &gt;100, Deduct</i>  | -3.10                     |                         |
| 05 05 19 00-0105 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                    | 16.72                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.76                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -1.56                     |                         |
| <i>For &gt;100, Deduct</i>  | -3.12                     |                         |
| 05 05 19 00-0106 EA 1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                | 23.19                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -1.08                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -2.20                     |                         |
| <i>For &gt;100, Deduct</i>  | -4.41                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 05 19 00-0107        | EA  |     | 1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                 | 23.61                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.21                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -4.43                  |                      |
| 05 05 19 00-0108        | EA  |     | 1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                 | 23.97                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.22                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -4.44                  |                      |
| 05 05 19 00-0109        | EA  |     | 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                 | 24.40                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.23                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -4.47                  |                      |
| 05 05 19 00-0110        | EA  |     | 5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....             | 29.13                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.73                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -5.47                  |                      |
| 05 05 19 00-0111        | EA  |     | 5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                 | 29.76                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.75                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -5.50                  |                      |
| 05 05 19 00-0112        | EA  |     | 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....             | 30.24                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.76                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -5.52                  |                      |
| 05 05 19 00-0113        | EA  |     | 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....                 | 31.61                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.80                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -5.59                  |                      |
| 05 05 19 00-0114        | EA  |     | 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....             | 35.82                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.28                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -6.56                  |                      |
| 05 05 19 00-0115        | EA  |     | 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....             | 37.00                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.31                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -6.62                  |                      |
| 05 05 19 00-0116        | EA  |     | 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....             | 38.07                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.34                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -6.68                  |                      |
| 05 05 19 00-0117        | EA  |     | 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....             | 39.76                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.38                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -6.76                  |                      |
| <b>05 05 19 00-0118</b> |     |     | <b>304/18-8 Stainless Steel, Concrete Sleeve Anchors</b> <small>(05 05 19 00-0096)</small> |                        |                      |
|                         |     |     | Note: Includes nut and washer.   |                        |                      |
| 05 05 19 00-0119        | EA  |     | 1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....      | 15.98                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.36                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -2.72                  |                      |
| 05 05 19 00-0120        | EA  |     | 3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....      | 21.16                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.76                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.67                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -3.34                  |                      |
| 05 05 19 00-0121        | EA  |     | 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....          | 23.52                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.76                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.73                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -3.46                  |                      |
| 05 05 19 00-0122        | EA  |     | 1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....      | 31.72                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.42                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -4.83                  |                      |
| 05 05 19 00-0123        | EA  |     | 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....          | 35.96                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.52                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -5.04                  |                      |
| 05 05 19 00-0124        | EA  |     | 5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....      | 49.77                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.25                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -6.50                  |                      |
| <b>05 05 19 00-0125</b> |     |     | <b>Concrete Strike Anchors</b> <small>(05 05 19 00-0002)</small>                           |                        |                      |
|                         |     |     | Note: Includes nut and washer.   |                        |                      |
| 05 05 19 00-0126        | EA  |     | 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....             | 14.42                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.32                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -2.64                  |                      |
| 05 05 19 00-0127        | EA  |     | 1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor .....             | 14.76                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.33                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>   | -2.66                  |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 05 05 19 00-0128 | EA    |     |     | 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....15.37         |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.67                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.39                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -2.78                  |                      |
| 05 05 19 00-0129 | EA    |     |     | 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor .....16.75             |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.67                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.43                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -2.85                  |                      |
| 05 05 19 00-0130 | EA    |     |     | 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor .....17.57          |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.58                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -3.16                  |                      |
| 05 05 19 00-0131 | EA    |     |     | 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor .....18.60          |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.61                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -3.21                  |                      |
| 05 05 19 00-0132 | EA    |     |     | 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor .....19.40              |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.76                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.63                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -3.25                  |                      |
| 05 05 19 00-0133 | EA    |     |     | 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....25.75          |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.27                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -4.53                  |                      |
| 05 05 19 00-0134 | EA    |     |     | 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor .....26.37          |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.28                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -4.56                  |                      |
| 05 05 19 00-0135 | EA    |     |     | 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....28.19          |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.33                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -4.66                  |                      |
| 05 05 19 00-0136 | EA    |     |     | 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....30.53              |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.08                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.39                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -4.77                  |                      |
| 05 05 19 00-0137 | EA    |     |     | 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor .....34.57              |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.87                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -5.74                  |                      |
| 05 05 19 00-0138 | EA    |     |     | 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....36.74          |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.92                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -5.85                  |                      |
| 05 05 19 00-0139 | EA    |     |     | 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....38.66              |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.34                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.97                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -5.94                  |                      |
| 05 05 19 00-0140 | EA    |     |     | 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor .....44.86              |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.51                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -7.02                  |                      |
| 05 05 19 00-0141 | EA    |     |     | 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....46.89              |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.59                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.56                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -7.12                  |                      |
| 05 05 19 00-0142 |       |     |     | <b>Multi-Set Drop-In Anchors</b> <small>(05 05 19 00-0002)</small>                           |                        |                      |
| 05 05 19 00-0143 |       |     |     | <b>Zinc Plated Steel, Multi-Set Drop-In Anchors</b> <small>(05 05 19 00-0142)</small>        |                        |                      |
|                  |       |     |     | Note: Excludes bolt, nut and washer.   |                        |                      |
| 05 05 19 00-0144 | EA    |     |     | 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....18.67                   |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -0.89                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.80                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -3.61                  |                      |
| 05 05 19 00-0145 | EA    |     |     | 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....22.86                   |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.09                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.20                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -4.40                  |                      |
| 05 05 19 00-0146 | EA    |     |     | 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....28.03                   |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.28                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.62                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -5.24                  |                      |
| 05 05 19 00-0147 | EA    |     |     | 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....31.95                   |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.41                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.91                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -5.82                  |                      |
| 05 05 19 00-0148 | EA    |     |     | 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....38.56                   |                        |                      |
|                  |       |     |     | <i>For &gt;10 To 50, Deduct</i>  | -1.60                  |                      |
|                  |       |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.36                  |                      |
|                  |       |     |     | <i>For &gt;100, Deduct</i>   | -6.73                  |                      |
| 05 05 19 00-0149 |       |     |     | <b>304/18-8 Stainless Steel, Multi-Set Drop-In Anchors</b> <small>(05 05 19 00-0142)</small> |                        |                      |
|                  |       |     |     | Note: Excludes bolt, nut and washer.   |                        |                      |

**05 Metals****05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....                             | 23.77                     |                         |
| For >10 To 50, Deduct   | -0.89                     |                         |
| For >50 To 100, Deduct  | -1.93                     |                         |
| For >100, Deduct  | -3.86                     |                         |
| 05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....                             | 32.40                     |                         |
| For >10 To 50, Deduct   | -1.09                     |                         |
| For >50 To 100, Deduct  | -2.44                     |                         |
| For >100, Deduct  | -4.88                     |                         |
| 05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....                             | 40.77                     |                         |
| For >10 To 50, Deduct   | -1.28                     |                         |
| For >50 To 100, Deduct  | -2.94                     |                         |
| For >100, Deduct  | -5.88                     |                         |
| 05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....                             | 52.45                     |                         |
| For >10 To 50, Deduct   | -1.41                     |                         |
| For >50 To 100, Deduct  | -3.42                     |                         |
| For >100, Deduct  | -6.84                     |                         |
| 05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....                             | 73.80                     |                         |
| For >10 To 50, Deduct   | -1.60                     |                         |
| For >50 To 100, Deduct  | -4.25                     |                         |
| For >100, Deduct  | -8.49                     |                         |
| <b>05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)</b>  |                           |                         |
| Note: Excludes bolt, nut and washer.  |                           |                         |
| 05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....                                | 13.75                     |                         |
| For >10 To 50, Deduct   | -0.64                     |                         |
| For >50 To 100, Deduct  | -1.30                     |                         |
| For >100, Deduct  | -2.61                     |                         |
| 05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....                               | 14.72                     |                         |
| For >10 To 50, Deduct   | -0.67                     |                         |
| For >50 To 100, Deduct  | -1.38                     |                         |
| For >100, Deduct  | -2.75                     |                         |
| 05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....                                | 16.65                     |                         |
| For >10 To 50, Deduct   | -0.76                     |                         |
| For >50 To 100, Deduct  | -1.56                     |                         |
| For >100, Deduct  | -3.12                     |                         |
| 05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....                                | 24.40                     |                         |
| For >10 To 50, Deduct   | -1.08                     |                         |
| For >50 To 100, Deduct  | -2.23                     |                         |
| For >100, Deduct  | -4.47                     |                         |
| 05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....                                | 34.31                     |                         |
| For >10 To 50, Deduct   | -1.34                     |                         |
| For >50 To 100, Deduct  | -2.86                     |                         |
| For >100, Deduct  | -5.73                     |                         |
| 05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....                                | 41.46                     |                         |
| For >10 To 50, Deduct   | -1.59                     |                         |
| For >50 To 100, Deduct  | -3.42                     |                         |
| For >100, Deduct  | -6.85                     |                         |
| <b>05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)</b>  |                           |                         |
| Note: Excludes lag bolt and washer.   |                           |                         |
| 05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....                                  | 13.84                     |                         |
| For >10 To 50, Deduct   | -0.64                     |                         |
| For >50 To 100, Deduct  | -1.31                     |                         |
| For >100, Deduct  | -2.61                     |                         |
| 05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....                                 | 16.45                     |                         |
| For >10 To 50, Deduct   | -0.76                     |                         |
| For >50 To 100, Deduct  | -1.55                     |                         |
| For >100, Deduct  | -3.11                     |                         |
| 05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....                                  | 17.28                     |                         |
| For >10 To 50, Deduct   | -0.76                     |                         |
| For >50 To 100, Deduct  | -1.57                     |                         |
| For >100, Deduct  | -3.15                     |                         |
| 05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....                                  | 24.34                     |                         |
| For >10 To 50, Deduct   | -1.08                     |                         |
| For >50 To 100, Deduct  | -2.23                     |                         |
| For >100, Deduct  | -4.46                     |                         |
| 05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....                                  | 33.01                     |                         |
| For >10 To 50, Deduct   | -1.34                     |                         |
| For >50 To 100, Deduct  | -2.83                     |                         |
| For >100, Deduct  | -5.66                     |                         |
| 05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....                                  | 36.78                     |                         |
| For >10 To 50, Deduct   | -1.59                     |                         |
| For >50 To 100, Deduct  | -3.31                     |                         |
| For >100, Deduct  | -6.61                     |                         |
| <b>05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)</b>  |                           |                         |
| <b>05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)</b>   |                           |                         |
| Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel. |                           |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
| 05 05 19 00-0171        | EA    |     |     | 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod .....   | 17.92                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.70                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.50                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -3.01                  |                      |
| 05 05 19 00-0172        | EA    |     |     | 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod .....   | 20.95                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.77                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.68                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -3.35                  |                      |
| 05 05 19 00-0173        | EA    |     |     | 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod .....  | 25.99                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.96                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.09                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -4.18                  |                      |
| 05 05 19 00-0174        | EA    |     |     | 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod .....  | 30.60                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.39                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -4.78                  |                      |
| 05 05 19 00-0175        | EA    |     |     | 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod .....  | 32.64                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.44                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -4.88                  |                      |
| 05 05 19 00-0176        | EA    |     |     | 5/8" x 7" Long Chemically Adhered Anchor Rod.....   | 40.39                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.34                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.01                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -6.03                  |                      |
| 05 05 19 00-0177        | EA    |     |     | 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod .....  | 52.98                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.59                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.71                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -7.42                  |                      |
| 05 05 19 00-0178        | EA    |     |     | 7/8" x 10" Long Chemically Adhered Anchor Rod.....  | 63.36                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.72                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.17                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -8.33                  |                      |
| 05 05 19 00-0179        | EA    |     |     | 1" x 11-3/4" Long Chemically Adhered Anchor Rod .....   | 87.00                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.23                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -5.53                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -11.05                 |                      |
| 05 05 19 00-0180        | EA    |     |     | 1-1/4" x 14" Long Chemically Adhered Anchor Rod .....   | 126.25                 |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.82                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -7.38                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -14.76                 |                      |
| <b>05 05 19 00-0181</b> |       |     |     | <b>Chemical Adhesives For Bolts, Dowels Or Threaded Rod</b> <small>(05 05 19 00-0169)</small>   |                        |                      |
|                         |       |     |     | Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Drill a hole 1/16" to 1/4" larger than the diameter of the thread and a depth a minimum of 4-1/2 times the diameter of the bolt. Excludes bolt, dowel or rod. |                        |                      |
| 05 05 19 00-0182        | EA    |     |     | 1/4" Chemical Adhesive For Bolt Or Threaded Rod .....   | 14.56                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.70                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.42                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -2.84                  |                      |
| 05 05 19 00-0183        | EA    |     |     | 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....  | 15.95                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.77                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.55                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -3.10                  |                      |
| 05 05 19 00-0184        | EA    |     |     | 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....   | 18.72                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.90                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.81                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -3.63                  |                      |
| 05 05 19 00-0185        | EA    |     |     | 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....   | 22.76                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.08                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.19                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -4.38                  |                      |
| 05 05 19 00-0186        | EA    |     |     | 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....   | 25.88                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.16                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.38                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -4.77                  |                      |
| 05 05 19 00-0187        | EA    |     |     | 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....   | 33.17                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.42                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.96                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -5.92                  |                      |
| 05 05 19 00-0188        | EA    |     |     | 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....   | 36.80                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.52                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.21                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -6.41                  |                      |
| 05 05 19 00-0189        | EA    |     |     | 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....   | 46.24                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.84                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.91                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -7.82                  |                      |
| 05 05 19 00-0190        | EA    |     |     | 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod .....  | 51.51                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.99                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.27                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -8.55                  |                      |
| 05 05 19 00-0191        | EA    |     |     | 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod .....  | 60.27                  |                      |
|                         |       |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.25                  |                      |
|                         |       |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.89                  |                      |
|                         |       |     |     | <i>For &gt;100, Deduct</i>  | -9.77                  |                      |

**05 Metals****05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 05 19 00-0192        | EA  |     | 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....               | 68.16                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.46                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -5.39                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -10.78                 |                      |
| 05 05 19 00-0193        | EA  |     | 1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....               | 78.84                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -2.68                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -5.98                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -11.97                 |                      |
| 05 05 19 00-0194        | EA  |     | 1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....               | 100.86                 |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -3.14                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -7.24                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -14.47                 |                      |
| 05 05 19 00-0195        | EA  |     | 2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....                   | 151.91                 |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -3.80                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.49                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -18.98                 |                      |
| <b>05 05 19 00-0196</b> |     |     | <b>Grout Concrete Anchor Bolt Or Threaded Rod</b> (05 05 19 00-0169)        |                        |                      |
| 05 05 19 00-0197        | EA  |     | Grout Concrete Anchor Bolt or Threaded Rod.....                             | 4.76                   |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.46                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -0.92                  |                      |
| <b>05 05 19 00-0198</b> |     |     | <b>Other Concrete And Masonry Anchors</b> (05 05 19 00-0001)                |                        |                      |
| <b>05 05 19 00-0199</b> |     |     | <b>Tapcon Masonry Screws</b> (05 05 19 00-0198)                             |                        |                      |
|                         |     |     | Note: Includes drilling. Countersunk or hex head.                           |                        |                      |
| 05 05 19 00-0200        | EA  |     | 3/16" x 1-1/4" Tapcon Masonry Screw.....                                    | 13.19                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.29                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.58                  |                      |
| 05 05 19 00-0201        | EA  |     | 3/16" x 2-1/4" Tapcon Masonry Screw.....                                    | 13.29                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.29                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.59                  |                      |
| 05 05 19 00-0202        | EA  |     | 3/16" x 3-1/4" Tapcon Masonry Screw.....                                    | 13.51                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.30                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.60                  |                      |
| 05 05 19 00-0203        | EA  |     | 1/4" x 1-1/4" Tapcon Masonry Screw.....                                     | 13.31                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.29                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.59                  |                      |
| 05 05 19 00-0204        | EA  |     | 1/4" x 2-1/4" Tapcon Masonry Screw.....                                     | 13.43                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.30                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.59                  |                      |
| 05 05 19 00-0205        | EA  |     | 1/4" x 3-1/4" Tapcon Masonry Screw.....                                     | 13.69                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.30                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.61                  |                      |
| <b>05 05 19 00-0206</b> |     |     | <b>Large Diameter, Self-Threading Concrete Fasteners</b> (05 05 19 00-0199) |                        |                      |
|                         |     |     | Note: Includes drilling. Zinc plated.                                       |                        |                      |
| 05 05 19 00-0207        | EA  |     | 3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....        | 14.15                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.31                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.63                  |                      |
| 05 05 19 00-0208        | EA  |     | 3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....        | 14.63                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.33                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.65                  |                      |
| 05 05 19 00-0209        | EA  |     | 3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....            | 14.76                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.33                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.66                  |                      |
| 05 05 19 00-0210        | EA  |     | 3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....            | 14.99                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.67                  |                      |
| 05 05 19 00-0211        | EA  |     | 3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....            | 15.19                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.68                  |                      |
| 05 05 19 00-0212        | EA  |     | 1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....            | 15.60                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.35                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.70                  |                      |
| 05 05 19 00-0213        | EA  |     | 1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....            | 16.12                  |                      |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.36                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.73                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 19 00-0214 EA 1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....                                 | 16.59                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.38                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.75                     |                         |
| 05 05 19 00-0215 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....                                 | 17.92                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.41                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.82                     |                         |
| 05 05 19 00-0216 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....                                 | 18.08                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.41                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.83                     |                         |
| 05 05 19 00-0217 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....                                 | 18.89                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.43                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.87                     |                         |
| 05 05 19 00-0218 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....                                 | 19.72                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.45                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.91                     |                         |
| 05 05 19 00-0219 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....                                 | 20.26                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.47                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.93                     |                         |
| 05 05 19 00-0220 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....                             | 20.02                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.46                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.92                     |                         |
| 05 05 19 00-0221 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....                             | 20.79                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.48                     |                         |
| <i>For &gt;100, Deduct</i>   | -2.96                     |                         |
| 05 05 19 00-0222 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....                             | 22.60                     |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.53                     |                         |
| <i>For &gt;100, Deduct</i>   | -3.05                     |                         |
| <b>05 05 19 00-0223 Pin Bolt Drives</b> <small>(05 05 19 00-0198)</small>  |                           |                         |
| Note: Includes drilling. Zinc plated.  |                           |                         |
| 05 05 19 00-0224 EA 1/4" x 1" Pin Bolt Drive.....  | 8.27                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.78                     |                         |
| <i>For &gt;100, Deduct</i>   | -1.57                     |                         |
| 05 05 19 00-0225 EA 1/4" x 1-1/4" Pin Bolt Drive.....  | 8.27                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.78                     |                         |
| <i>For &gt;100, Deduct</i>   | -1.57                     |                         |
| 05 05 19 00-0226 EA 1/4" x 1-1/2" Pin Bolt Drive.....  | 8.35                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.79                     |                         |
| <i>For &gt;100, Deduct</i>   | -1.57                     |                         |
| 05 05 19 00-0227 EA 1/4" x 2" Pin Bolt Drive.....  | 8.37                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.79                     |                         |
| <i>For &gt;100, Deduct</i>   | -1.57                     |                         |
| <b>05 05 19 00-0228 Powder Actuated, Shot-In Place Anchors</b> <small>(05 05 19 00-0198)</small>                     |                           |                         |
| 05 05 19 00-0229 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....                                   | 2.08                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.09                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.18                     |                         |
| <i>For &gt;100, Deduct</i>   | -0.36                     |                         |
| 05 05 19 00-0230 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....                                   | 2.21                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.09                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.19                     |                         |
| <i>For &gt;100, Deduct</i>   | -0.38                     |                         |
| 05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....                               | 2.40                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.10                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.20                     |                         |
| <i>For &gt;100, Deduct</i>   | -0.41                     |                         |
| 05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....                           | 2.67                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.10                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.22                     |                         |
| <i>For &gt;100, Deduct</i>   | -0.44                     |                         |
| 05 05 19 00-0233 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....                           | 2.83                      |                         |
| <i>For &gt;10 To 50, Deduct</i>  | -0.10                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.22                     |                         |
| <i>For &gt;100, Deduct</i>   | -0.45                     |                         |
| <b>05 05 19 00-0234 Powder Actuated, Shot-In Place Anchors With Exposed Thread</b> <small>(05 05 19 00-0198)</small> |                           |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....   | 2.51                      |                         |
| For >10 To 50, Deduct   | -0.09                     |                         |
| For >50 To 100, Deduct  | -0.20                     |                         |
| For >100, Deduct  | -0.39                     |                         |
| 05 05 19 00-0236 EA 0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....   | 3.43                      |                         |
| For >10 To 50, Deduct   | -0.11                     |                         |
| For >50 To 100, Deduct  | -0.25                     |                         |
| For >100, Deduct  | -0.50                     |                         |
| <b>05 05 21 Fastening Methods for Metal</b> <small>(05 05)</small>  |                           |                         |
| 05 05 21 00-0001 Welding <small>(05 05 21)</small>  |                           |                         |
| 05 05 21 00-0002 Minimum Charge For Welding <small>(05 05 21 00-0001)</small>   |                           |                         |
| 05 05 21 00-0003 EA Welding Minimum Charge.....   | 497.87                    |                         |
| Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section. |                           |                         |
| 05 05 21 00-0004 Spot Welding <small>(05 05 21 00-0001)</small>   |                           |                         |
| See CSI section 05 05 21 00-0007 for a series of welds.   |                           |                         |
| 05 05 21 00-0005 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....   | 12.68                     |                         |
| For Aluminum Welding, Add   | 1.98                      |                         |
| For Stainless Steel Welding, Add  | 3.27                      |                         |
| 05 05 21 00-0006 EA >15 Spot Weldings, Welds Up To 1" Length Each.....  | 9.90                      |                         |
| For Aluminum Welding, Add   | 1.56                      |                         |
| For Stainless Steel Welding, Add  | 2.57                      |                         |
| 05 05 21 00-0007 Field Welding (Seam And Stitch Welding) <small>(05 05 21 00-0001)</small>  |                           |                         |
| 05 05 21 00-0008 Vertical Fillet Welds <small>(05 05 21 00-0007)</small>  |                           |                         |
| Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.   |                           |                         |
| 05 05 21 00-0009 LF 1/8" Vertical Fillet Weld.....  | 8.07                      |                         |
| For Aluminum Welding, Add   | 1.61                      |                         |
| For Stainless Steel Welding, Add  | 2.51                      |                         |
| For Up To 25, Add   | 2.66                      |                         |
| For >25 To 50, Add  | 1.89                      |                         |
| 05 05 21 00-0010 LF 3/16" Vertical Fillet Weld.....   | 15.64                     |                         |
| For Aluminum Welding, Add   | 2.84                      |                         |
| For Stainless Steel Welding, Add  | 4.53                      |                         |
| For Up To 25, Add   | 5.27                      |                         |
| For >25 To 50, Add  | 3.75                      |                         |
| 05 05 21 00-0011 LF 1/4" Vertical Fillet Weld.....  | 23.48                     |                         |
| For Aluminum Welding, Add   | 4.27                      |                         |
| For Stainless Steel Welding, Add  | 6.81                      |                         |
| For Up To 25, Add   | 7.91                      |                         |
| For >25 To 50, Add  | 5.62                      |                         |
| 05 05 21 00-0012 LF 5/16" Vertical Fillet Weld.....   | 30.98                     |                         |
| For Aluminum Welding, Add   | 5.66                      |                         |
| For Stainless Steel Welding, Add  | 9.01                      |                         |
| For Up To 25, Add   | 10.42                     |                         |
| For >25 To 50, Add  | 7.41                      |                         |
| 05 05 21 00-0013 LF 3/8" Vertical Fillet Weld.....  | 39.12                     |                         |
| For Aluminum Welding, Add   | 7.11                      |                         |
| For Stainless Steel Welding, Add  | 11.33                     |                         |
| For Up To 25, Add   | 13.17                     |                         |
| For >25 To 50, Add  | 9.37                      |                         |
| 05 05 21 00-0014 LF 7/16" Vertical Fillet Weld.....   | 45.52                     |                         |
| For Aluminum Welding, Add   | 7.81                      |                         |
| For Stainless Steel Welding, Add  | 12.61                     |                         |
| For Up To 25, Add   | 15.52                     |                         |
| For >25 To 50, Add  | 11.05                     |                         |
| 05 05 21 00-0015 LF 1/2" Vertical Fillet Weld.....  | 53.49                     |                         |
| For Aluminum Welding, Add   | 9.76                      |                         |
| For Stainless Steel Welding, Add  | 15.55                     |                         |
| For Up To 25, Add   | 18.00                     |                         |
| For >25 To 50, Add  | 12.79                     |                         |
| 05 05 21 00-0016 LF 9/16" Vertical Fillet Weld.....   | 62.57                     |                         |
| For Aluminum Welding, Add   | 10.94                     |                         |
| For Stainless Steel Welding, Add  | 17.59                     |                         |
| For Up To 25, Add   | 21.25                     |                         |
| For >25 To 50, Add  | 15.12                     |                         |
| 05 05 21 00-0017 LF 5/8" Vertical Fillet Weld.....  | 72.54                     |                         |
| For Aluminum Welding, Add   | 12.72                     |                         |
| For Stainless Steel Welding, Add  | 20.44                     |                         |
| For Up To 25, Add   | 24.62                     |                         |
| For >25 To 50, Add  | 17.52                     |                         |
| 05 05 21 00-0018 LF 3/4" Vertical Fillet Weld.....  | 97.89                     |                         |
| For Aluminum Welding, Add   | 17.85                     |                         |
| For Stainless Steel Welding, Add  | 28.43                     |                         |
| For Up To 25, Add   | 32.94                     |                         |
| For >25 To 50, Add  | 23.42                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 21 00-0019 LF 7/8" Vertical Fillet Weld.....   | 144.81                    |                         |
| <i>For Aluminum Welding, Add</i>   | 25.25                     |                         |
| <i>For Stainless Steel Welding, Add</i>  | 40.61                     |                         |
| <i>For Up To 25, Add</i>   | 49.21                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 35.03                     |                         |
| 05 05 21 00-0020 LF 1" Vertical Fillet Weld.....   | 195.10                    |                         |
| <i>For Aluminum Welding, Add</i>   | 35.18                     |                         |
| <i>For Stainless Steel Welding, Add</i>  | 56.16                     |                         |
| <i>For Up To 25, Add</i>   | 65.82                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 46.81                     |                         |
| <b>05 05 21 00-0021 Horizontal Or Flat Fillet Welds</b> <small>(05 05 21 00-0007)</small>  |                           |                         |
| <i>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</i> |                           |                         |
| 05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld.....   | 6.80                      |                         |
| <i>For Aluminum Welding, Add</i>   | 1.42                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 2.20                      |                         |
| <i>For Up To 25, Add</i>   | 2.22                      |                         |
| <i>For &gt;25 To 50, Add</i>   | 1.57                      |                         |
| 05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld.....  | 13.24                     |                         |
| <i>For Aluminum Welding, Add</i>   | 2.50                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 3.96                      |                         |
| <i>For Up To 25, Add</i>   | 4.42                      |                         |
| <i>For &gt;25 To 50, Add</i>   | 3.14                      |                         |
| 05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld.....   | 19.82                     |                         |
| <i>For Aluminum Welding, Add</i>   | 3.75                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 5.93                      |                         |
| <i>For Up To 25, Add</i>   | 6.61                      |                         |
| <i>For &gt;25 To 50, Add</i>   | 4.70                      |                         |
| 05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld.....  | 26.20                     |                         |
| <i>For Aluminum Welding, Add</i>   | 4.99                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 7.88                      |                         |
| <i>For Up To 25, Add</i>   | 8.73                      |                         |
| <i>For &gt;25 To 50, Add</i>   | 6.20                      |                         |
| 05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld.....   | 33.07                     |                         |
| <i>For Aluminum Welding, Add</i>   | 6.26                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 9.89                      |                         |
| <i>For Up To 25, Add</i>   | 11.03                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 7.84                      |                         |
| 05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld.....  | 38.31                     |                         |
| <i>For Aluminum Welding, Add</i>   | 6.78                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 10.88                     |                         |
| <i>For Up To 25, Add</i>   | 12.98                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 9.23                      |                         |
| 05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld.....   | 45.18                     |                         |
| <i>For Aluminum Welding, Add</i>   | 8.60                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 13.57                     |                         |
| <i>For Up To 25, Add</i>   | 15.06                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 10.69                     |                         |
| 05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld.....  | 52.78                     |                         |
| <i>For Aluminum Welding, Add</i>   | 9.58                      |                         |
| <i>For Stainless Steel Welding, Add</i>  | 15.27                     |                         |
| <i>For Up To 25, Add</i>   | 17.78                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 12.64                     |                         |
| 05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld.....   | 61.48                     |                         |
| <i>For Aluminum Welding, Add</i>   | 11.38                     |                         |
| <i>For Stainless Steel Welding, Add</i>  | 18.06                     |                         |
| <i>For Up To 25, Add</i>   | 20.62                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 14.65                     |                         |
| 05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld.....   | 82.76                     |                         |
| <i>For Aluminum Welding, Add</i>   | 15.73                     |                         |
| <i>For Stainless Steel Welding, Add</i>  | 24.84                     |                         |
| <i>For Up To 25, Add</i>   | 27.58                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 19.58                     |                         |
| 05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....   | 121.27                    |                         |
| <i>For Aluminum Welding, Add</i>   | 21.48                     |                         |
| <i>For Stainless Steel Welding, Add</i>  | 34.44                     |                         |
| <i>For Up To 25, Add</i>   | 41.07                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 29.22                     |                         |
| 05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....   | 164.32                    |                         |
| <i>For Aluminum Welding, Add</i>   | 30.85                     |                         |
| <i>For Stainless Steel Welding, Add</i>  | 48.83                     |                         |
| <i>For Up To 25, Add</i>   | 54.93                     |                         |
| <i>For &gt;25 To 50, Add</i>   | 39.01                     |                         |

**05 05 23 Metal Fastenings** (05 05)

05 05 23 00-0001 Hex Bolts (05 05 23)  
*Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 02 41 19 13-0157 for drilling into concrete, 02 41 19 13-0172 for drilling into brick or block, 02 41 19 13-0187 for drilling into wood or plastic, 05 05 23 00-1567 for drilling through steel.*

05 05 23 00-0002 A307B Heavy Hex Bolts (05 05 23 00-0001)  
*Note: Includes A307B heavy hex nut and two structural washers.*



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>05 05 23 00-0003 Plain Finish A307B Heavy Hex Bolts</b> <small>(05 05 23 00-0002)</small> |                           |                         |
| 05 05 23 00-0004 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt .....     | 14.70                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.25                     |                         |
| For >100, Deduct   | -2.51                     |                         |
| 05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt .....         | 16.36                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.30                     |                         |
| For >100, Deduct   | -2.59                     |                         |
| 05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt .....         | 16.40                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.30                     |                         |
| For >100, Deduct   | -2.59                     |                         |
| 05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....         | 19.61                     | 1.62                    |
| For >10 To 50, Deduct  | -0.68                     |                         |
| For >50 To 100, Deduct   | -1.50                     |                         |
| For >100, Deduct   | -3.01                     |                         |
| 05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt .....         | 19.19                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.37                     |                         |
| For >100, Deduct   | -2.73                     |                         |
| 05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....         | 23.07                     | 1.62                    |
| For >10 To 50, Deduct  | -0.67                     |                         |
| For >50 To 100, Deduct   | -1.59                     |                         |
| For >100, Deduct   | -3.18                     |                         |
| 05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt .....         | 29.53                     | 1.69                    |
| For >10 To 50, Deduct  | -0.71                     |                         |
| For >50 To 100, Deduct   | -1.80                     |                         |
| For >100, Deduct   | -3.59                     |                         |
| 05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt .....         | 31.76                     | 1.78                    |
| For >10 To 50, Deduct  | -0.74                     |                         |
| For >50 To 100, Deduct   | -1.91                     |                         |
| For >100, Deduct   | -3.81                     |                         |
| 05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt .....         | 23.15                     | 1.54                    |
| For >10 To 50, Deduct  | -0.64                     |                         |
| For >50 To 100, Deduct   | -1.54                     |                         |
| For >100, Deduct   | -3.08                     |                         |
| 05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....         | 28.08                     | 1.69                    |
| For >10 To 50, Deduct  | -0.70                     |                         |
| For >50 To 100, Deduct   | -1.76                     |                         |
| For >100, Deduct   | -3.52                     |                         |
| 05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....           | 33.25                     | 1.78                    |
| For >10 To 50, Deduct  | -0.74                     |                         |
| For >50 To 100, Deduct   | -1.94                     |                         |
| For >100, Deduct   | -3.89                     |                         |
| 05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt .....           | 48.13                     | 1.86                    |
| For >10 To 50, Deduct  | -0.78                     |                         |
| For >50 To 100, Deduct   | -2.37                     |                         |
| For >100, Deduct   | -4.74                     |                         |
| 05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....       | 56.43                     | 2.12                    |
| For >10 To 50, Deduct  | -0.88                     |                         |
| For >50 To 100, Deduct   | -2.73                     |                         |
| For >100, Deduct   | -5.46                     |                         |
| 05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt .....       | 63.63                     | 2.26                    |
| For >10 To 50, Deduct  | -0.94                     |                         |
| For >50 To 100, Deduct   | -3.01                     |                         |
| For >100, Deduct   | -6.01                     |                         |
| <b>05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts</b> <small>(05 05 23 00-0002)</small>   |                           |                         |
| 05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt .....       | 15.51                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.27                     |                         |
| For >100, Deduct   | -2.55                     |                         |
| 05 05 23 00-0020 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt .....           | 16.90                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.31                     |                         |
| For >100, Deduct   | -2.62                     |                         |
| 05 05 23 00-0021 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt .....           | 18.41                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.35                     |                         |
| For >100, Deduct   | -2.69                     |                         |
| 05 05 23 00-0022 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt .....           | 21.62                     | 1.62                    |
| For >10 To 50, Deduct  | -0.68                     |                         |
| For >50 To 100, Deduct   | -1.55                     |                         |
| For >100, Deduct   | -3.11                     |                         |
| 05 05 23 00-0023 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt .....           | 21.48                     | 1.41                    |
| For >10 To 50, Deduct  | -0.59                     |                         |
| For >50 To 100, Deduct   | -1.42                     |                         |
| For >100, Deduct   | -2.85                     |                         |
| 05 05 23 00-0024 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt .....           | 27.29                     | 1.62                    |
| For >10 To 50, Deduct  | -0.67                     |                         |
| For >50 To 100, Deduct   | -1.69                     |                         |
| For >100, Deduct   | -3.39                     |                         |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 05 23 00-0025        | EA  |     | 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....                     | 36.81                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.71                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.98                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.96                  |                      |
| 05 05 23 00-0026        | EA  |     | 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....                     | 43.54                  | 1.78                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.74                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.20                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.40                  |                      |
| 05 05 23 00-0027        | EA  |     | 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....                     | 29.13                  | 1.54                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.69                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.38                  |                      |
| 05 05 23 00-0028        | EA  |     | 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....                     | 34.82                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.70                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.93                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.85                  |                      |
| 05 05 23 00-0029        | EA  |     | 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....                       | 41.94                  | 1.78                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.74                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.16                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.32                  |                      |
| 05 05 23 00-0030        | EA  |     | 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....                       | 63.90                  | 1.86                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.78                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.77                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -5.53                  |                      |
| 05 05 23 00-0031        | EA  |     | 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....                   | 63.49                  | 2.12                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.88                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.91                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -5.81                  |                      |
| 05 05 23 00-0032        | EA  |     | 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....                   | 79.96                  | 2.26                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.94                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.41                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -6.83                  |                      |
| <b>05 05 23 00-0033</b> |     |     | <b>A325 High Strength Structural Bolts</b> (05 05 23 00-0001)                     |                        |                      |
| <b>05 05 23 00-0034</b> |     |     | <b>Plain Finish A325 High Strength Structural Bolts</b> (05 05 23 00-0033)        |                        |                      |
|                         |     |     | Note: Includes A325 heavy hex nut and structural washer.                          |                        |                      |
| 05 05 23 00-0035        | EA  |     | 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt..... | 14.31                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.24                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.49                  |                      |
| 05 05 23 00-0036        | EA  |     | 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....     | 14.68                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.25                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.51                  |                      |
| 05 05 23 00-0037        | EA  |     | 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....     | 15.85                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.28                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.57                  |                      |
| 05 05 23 00-0038        | EA  |     | 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....     | 19.64                  | 1.62                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.68                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.50                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.01                  |                      |
| 05 05 23 00-0039        | EA  |     | 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....     | 23.03                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.71                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.63                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.27                  |                      |
| 05 05 23 00-0040        | EA  |     | 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....     | 17.48                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.32                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.65                  |                      |
| 05 05 23 00-0041        | EA  |     | 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....     | 21.37                  | 1.62                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.67                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.55                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.09                  |                      |
| 05 05 23 00-0042        | EA  |     | 3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....     | 24.57                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.71                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.67                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.34                  |                      |
| 05 05 23 00-0043        | EA  |     | 3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....     | 30.72                  | 1.78                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.74                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.88                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.76                  |                      |
| 05 05 23 00-0044        | EA  |     | 7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....     | 20.47                  | 1.54                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.47                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.95                  |                      |
| 05 05 23 00-0045        | EA  |     | 7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....     | 25.22                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.70                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.69                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.37                  |                      |
| 05 05 23 00-0046        | EA  |     | 7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....     | 29.03                  | 1.78                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.74                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.84                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.68                  |                      |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 05 23 00-0047        | EA  |     | 7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....   | 31.55                  | 1.86                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.78                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.96                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.91                  |                      |
| 05 05 23 00-0048        | EA  |     | 1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....     | 22.79                  | 1.60                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.67                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.57                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.14                  |                      |
| 05 05 23 00-0049        | EA  |     | 1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....     | 27.64                  | 1.78                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.74                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.80                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.61                  |                      |
| 05 05 23 00-0050        | EA  |     | 1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....     | 32.33                  | 1.86                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.78                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.98                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.95                  |                      |
| 05 05 23 00-0051        | EA  |     | 1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....     | 42.07                  | 1.99                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.83                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.30                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.59                  |                      |
| 05 05 23 00-0052        | EA  |     | 1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt..... | 40.02                  | 1.99                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.83                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.24                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.49                  |                      |
| 05 05 23 00-0053        | EA  |     | 1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt..... | 45.59                  | 2.12                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.88                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.46                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -4.92                  |                      |
| 05 05 23 00-0054        | EA  |     | 1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt..... | 53.88                  | 2.26                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.94                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.76                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -5.52                  |                      |
| 05 05 23 00-0055        | EA  |     | 1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt..... | 63.65                  | 2.42                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -1.01                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.10                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -6.20                  |                      |
| <b>05 05 23 00-0056</b> |     |     | <b>Galvanized A325 High Strength Structural Bolts</b> (05 05 23 00-0053)        |                        |                      |
|                         |     |     | Note: Includes A325 heavy hex nut and structural washer.                        |                        |                      |
| 05 05 23 00-0057        | EA  |     | 1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt..... | 15.05                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.26                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.53                  |                      |
| 05 05 23 00-0058        | EA  |     | 1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....     | 15.31                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.27                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0059        | EA  |     | 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....     | 17.40                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.32                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.64                  |                      |
| 05 05 23 00-0060        | EA  |     | 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....     | 20.74                  | 1.62                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.68                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.53                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.06                  |                      |
| 05 05 23 00-0061        | EA  |     | 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....     | 21.98                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.71                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.61                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.21                  |                      |
| 05 05 23 00-0062        | EA  |     | 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....     | 18.20                  | 1.41                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.34                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -2.68                  |                      |
| 05 05 23 00-0063        | EA  |     | 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....     | 22.27                  | 1.62                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.67                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.57                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.14                  |                      |
| 05 05 23 00-0064        | EA  |     | 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....     | 25.97                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.71                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.71                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.41                  |                      |
| 05 05 23 00-0065        | EA  |     | 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....     | 34.03                  | 1.78                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.74                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.96                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.93                  |                      |
| 05 05 23 00-0066        | EA  |     | 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....     | 24.74                  | 1.54                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.58                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.16                  |                      |
| 05 05 23 00-0067        | EA  |     | 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....     | 27.75                  | 1.69                 |
|                         |     |     | <i>For &gt;10 To 50, Deduct</i>   | -0.70                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.75                  |                      |
|                         |     |     | <i>For &gt;100, Deduct</i>  | -3.50                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST        | DEMOLITION<br>UNIT COST |
|---|----------------------------------|-------------------------|
| 05 05 23 00-0068 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i>   | 32.09<br>-0.74<br>-1.91<br>-3.83 | 1.78                    |
| 05 05 23 00-0069 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i>   | 40.73<br>-0.78<br>-2.19<br>-4.37 | 1.86                    |
| 05 05 23 00-0070 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i>     | 26.11<br>-0.67<br>-1.65<br>-3.31 | 1.60                    |
| 05 05 23 00-0071 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i>     | 35.25<br>-0.74<br>-1.99<br>-3.99 | 1.78                    |
| 05 05 23 00-0072 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i>     | 38.70<br>-0.78<br>-2.14<br>-4.27 | 1.86                    |
| 05 05 23 00-0073 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i>     | 49.93<br>-0.83<br>-2.49<br>-4.99 | 1.99                    |
| 05 05 23 00-0074 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 49.61<br>-0.83<br>-2.48<br>-4.97 | 1.99                    |
| 05 05 23 00-0075 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 52.92<br>-0.88<br>-2.64<br>-5.29 | 2.12                    |
| 05 05 23 00-0076 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 62.27<br>-0.94<br>-2.97<br>-5.94 | 2.26                    |
| 05 05 23 00-0077 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 72.41<br>-1.01<br>-3.32<br>-6.64 | 2.42                    |
| <br>  |                                  |                         |
| 05 05 23 00-0078 A490 High Strength Structural Bolts <small>(05 05 23 00-0001)</small><br>Note: Includes A490 heavy hex nut and two structural washers.   |                                  |                         |
| 05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0078)</small>   |                                  |                         |
| 05 05 23 00-0080 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 16.43<br>-0.59<br>-1.30<br>-2.59 | 1.41                    |
| 05 05 23 00-0081 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 23.63<br>-0.68<br>-1.60<br>-3.21 | 1.62                    |
| 05 05 23 00-0082 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 25.32<br>-0.71<br>-1.69<br>-3.38 | 1.69                    |
| 05 05 23 00-0083 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 18.69<br>-0.59<br>-1.35<br>-2.71 | 1.41                    |
| 05 05 23 00-0084 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 22.75<br>-0.67<br>-1.58<br>-3.16 | 1.62                    |
| 05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 26.79<br>-0.71<br>-1.73<br>-3.45 | 1.69                    |
| 05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 35.03<br>-0.74<br>-1.99<br>-3.98 | 1.78                    |
| 05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 21.86<br>-0.64<br>-1.51<br>-3.02 | 1.54                    |
| 05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 25.67<br>-0.70<br>-1.70<br>-3.40 | 1.69                    |
| 05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt .....<br><i>For &gt;10 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100, Deduct</i> | 38.02<br>-0.74<br>-2.06<br>-4.13 | 1.78                    |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0090 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....                 | 26.04                     | 1.60                    |
| For >10 To 50, Deduct   | -0.67                     |                         |
| For >50 To 100, Deduct  | -1.65                     |                         |
| For >100, Deduct  | -3.30                     |                         |
| 05 05 23 00-0091 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....                 | 31.29                     | 1.78                    |
| For >10 To 50, Deduct   | -0.74                     |                         |
| For >50 To 100, Deduct  | -1.89                     |                         |
| For >100, Deduct  | -3.79                     |                         |
| 05 05 23 00-0092 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....                 | 36.25                     | 1.86                    |
| For >10 To 50, Deduct   | -0.78                     |                         |
| For >50 To 100, Deduct  | -2.07                     |                         |
| For >100, Deduct  | -4.15                     |                         |
| 05 05 23 00-0093 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....             | 45.82                     | 1.99                    |
| For >10 To 50, Deduct   | -0.83                     |                         |
| For >50 To 100, Deduct  | -2.39                     |                         |
| For >100, Deduct  | -4.78                     |                         |
| 05 05 23 00-0094 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....             | 59.44                     | 2.12                    |
| For >10 To 50, Deduct   | -0.88                     |                         |
| For >50 To 100, Deduct  | -2.81                     |                         |
| For >100, Deduct  | -5.61                     |                         |
| 05 05 23 00-0095 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....             | 62.50                     | 2.26                    |
| For >10 To 50, Deduct   | -0.94                     |                         |
| For >50 To 100, Deduct  | -2.98                     |                         |
| For >100, Deduct  | -5.95                     |                         |
| 05 05 23 00-0096 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....             | 65.13                     | 2.42                    |
| For >10 To 50, Deduct   | -1.01                     |                         |
| For >50 To 100, Deduct  | -3.14                     |                         |
| For >100, Deduct  | -6.27                     |                         |
| <b>05 05 23 00-0097 Hex Head Bolts (05 05 23 00-0001)</b>   |                           |                         |
| <b>05 05 23 00-0098 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)</b>                |                           |                         |
| <b>05 05 23 00-0099 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)</b> |                           |                         |
| 05 05 23 00-0100 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....      | 8.13                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0101 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 8.16                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0102 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 8.25                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0103 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 8.30                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0104 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 8.59                      |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0105 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 8.63                      |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0106 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 8.77                      |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0107 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 9.01                      |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0108 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 9.06                      |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0109 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 9.28                      |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0110 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 9.67                      |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0111 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 9.83                      |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0112 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 10.06                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0113 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 10.77                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0114 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 11.12                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0115 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 11.21                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| <br>  |                           |                         |
| <b>05 05 23 00-0116 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0098)</small> |                           |                         |
| 05 05 23 00-0117 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                     | 8.21                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0118 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.24                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0119 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 8.32                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0120 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.38                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0121 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 8.69                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0122 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.84                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0123 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 8.89                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0124 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.27                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0125 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.48                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0126 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.56                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0127 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.86                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0128 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.94                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0129 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0130 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0131 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.70                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0132 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.02                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 05 05 23 00-0133 |     | <b>3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05)</small>  |                           |                         |
|                  |     | <small>23 00-0098</small>   |                           |                         |
| 05 05 23 00-0134 | EA  | 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....              | 8.31                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0135 | EA  | 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 8.34                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0136 | EA  | 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 8.45                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0137 | EA  | 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 8.55                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0138 | EA  | 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 8.87                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0139 | EA  | 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 9.06                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0140 | EA  | 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 9.24                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0141 | EA  | 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 9.66                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0142 | EA  | 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 9.90                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0143 | EA  | 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 10.03                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0144 | EA  | 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 10.51                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0145 | EA  | 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 10.64                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0146 | EA  | 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 10.74                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0147 | EA  | 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 11.02                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0148 | EA  | 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 11.17                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0149 | EA  | 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                | 11.38                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0150 |     | <b>7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05)</small> |                           |                         |
|                  |     | <small>23 00-0098</small>   |                           |                         |
| 05 05 23 00-0151 | EA  | 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....               | 9.90                      |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0152 | EA  | 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....           | 10.05                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0153 | EA  | 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....               | 10.07                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0154 | EA  | 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....           | 10.50                     |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
|                  |     | <i>For &gt;500, Deduct</i>  | -2.81                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0155 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 10.73                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0156 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 10.91                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0157 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 11.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0158 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 11.77                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0159 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 12.04                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0160 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 12.71                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0161 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 12.85                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0162 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 13.19                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0163 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 13.57                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0164 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 13.88                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0165 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 14.49                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| <b>05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b> |                           |                         |
| 05 05 23 00-0167 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.77                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0168 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.95                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0169 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.13                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0170 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.57                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0171 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.75                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0172 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.94                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0173 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.42                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0174 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0175 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.01                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0176 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 12.29                     |                         |
| For>100 To 250, Deduct  | -1.97                     |                         |
| For>250 To 500, Deduct  | -2.46                     |                         |
| For>500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0177 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 12.33                     |                         |
| For>100 To 250, Deduct  | -1.97                     |                         |
| For>250 To 500, Deduct  | -2.46                     |                         |
| For>500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0178 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 12.65                     |                         |
| For>100 To 250, Deduct  | -1.97                     |                         |
| For>250 To 500, Deduct  | -2.46                     |                         |
| For>500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0179 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 13.17                     |                         |
| For>100 To 250, Deduct  | -2.01                     |                         |
| For>250 To 500, Deduct  | -2.52                     |                         |
| For>500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0180 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 13.37                     |                         |
| For>100 To 250, Deduct  | -2.01                     |                         |
| For>250 To 500, Deduct  | -2.52                     |                         |
| For>500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0181 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 13.92                     |                         |
| For>100 To 250, Deduct  | -2.01                     |                         |
| For>250 To 500, Deduct  | -2.52                     |                         |
| For>500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0182 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 14.43                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0183 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 14.63                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0184 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 15.40                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0185 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 15.62                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| <b>05 05 23 00-0186 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0098)</small> |                           |                         |
| 05 05 23 00-0187 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.96                      |                         |
| For>100 To 250, Deduct  | -1.83                     |                         |
| For>250 To 500, Deduct  | -2.29                     |                         |
| For>500, Deduct   | -2.74                     |                         |
| 05 05 23 00-0188 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.21                     |                         |
| For>100 To 250, Deduct  | -1.83                     |                         |
| For>250 To 500, Deduct  | -2.29                     |                         |
| For>500, Deduct   | -2.74                     |                         |
| 05 05 23 00-0189 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.27                     |                         |
| For>100 To 250, Deduct  | -1.83                     |                         |
| For>250 To 500, Deduct  | -2.29                     |                         |
| For>500, Deduct   | -2.74                     |                         |
| 05 05 23 00-0190 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.31                     |                         |
| For>100 To 250, Deduct  | -1.87                     |                         |
| For>250 To 500, Deduct  | -2.34                     |                         |
| For>500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0191 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.63                     |                         |
| For>100 To 250, Deduct  | -1.87                     |                         |
| For>250 To 500, Deduct  | -2.34                     |                         |
| For>500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0192 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.74                     |                         |
| For>100 To 250, Deduct  | -1.87                     |                         |
| For>250 To 500, Deduct  | -2.34                     |                         |
| For>500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0193 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.01                     |                         |
| For>100 To 250, Deduct  | -1.92                     |                         |
| For>250 To 500, Deduct  | -2.40                     |                         |
| For>500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0194 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.09                     |                         |
| For>100 To 250, Deduct  | -1.92                     |                         |
| For>250 To 500, Deduct  | -2.40                     |                         |
| For>500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0195 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.36                     |                         |
| For>100 To 250, Deduct  | -1.92                     |                         |
| For>250 To 500, Deduct  | -2.40                     |                         |
| For>500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0196 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.65                     |                         |
| For>100 To 250, Deduct  | -1.97                     |                         |
| For>250 To 500, Deduct  | -2.46                     |                         |
| For>500, Deduct   | -2.95                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0197 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 12.73                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0198 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 12.97                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0199 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 13.46                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0200 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 13.75                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0201 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 14.04                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0202 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 14.53                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0203 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 14.87                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0204 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 15.10                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0205 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                     | 15.45                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| <b>05 05 23 00-0206 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b> |                           |                         |
| 05 05 23 00-0207 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.65                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0208 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.82                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0209 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.03                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0210 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.54                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0211 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.86                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0212 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 13.26                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0213 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.99                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0214 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.60                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0215 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 15.08                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0216 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 15.50                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0217 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 15.56                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 05 05 23 00-0218 | EA  |     | 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 16.37                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.19                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.74                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.29                  |                      |
| 05 05 23 00-0219 | EA  |     | 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 17.06                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.24                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.80                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.36                  |                      |
| 05 05 23 00-0220 | EA  |     | 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 17.70                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.24                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.80                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.36                  |                      |
| 05 05 23 00-0221 | EA  |     | 5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 18.45                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.24                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.80                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.36                  |                      |
| 05 05 23 00-0222 | EA  |     | 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 19.49                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.43                  |                      |
| 05 05 23 00-0223 | EA  |     | 5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 20.22                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.43                  |                      |
| 05 05 23 00-0224 | EA  |     | 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 20.97                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.43                  |                      |
| 05 05 23 00-0225 | EA  |     | 5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....            | 21.55                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.43                  |                      |
| 05 05 23 00-0226 |     |     | <b>3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>05 05</small> |                        |                      |
|                  |     |     | <small>23 00-0098</small>  |                        |                      |
| 05 05 23 00-0227 | EA  |     | 3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 12.20                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.06                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.57                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.09                  |                      |
| 05 05 23 00-0228 | EA  |     | 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 12.53                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.06                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.57                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.09                  |                      |
| 05 05 23 00-0229 | EA  |     | 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 12.84                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.06                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.57                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.09                  |                      |
| 05 05 23 00-0230 | EA  |     | 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 13.44                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.10                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.63                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.15                  |                      |
| 05 05 23 00-0231 | EA  |     | 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 13.91                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.10                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.63                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.15                  |                      |
| 05 05 23 00-0232 | EA  |     | 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 14.33                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.10                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.63                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.15                  |                      |
| 05 05 23 00-0233 | EA  |     | 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 15.01                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.15                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.22                  |                      |
| 05 05 23 00-0234 | EA  |     | 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 15.59                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.15                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.22                  |                      |
| 05 05 23 00-0235 | EA  |     | 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 16.05                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.15                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.22                  |                      |
| 05 05 23 00-0236 | EA  |     | 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 17.23                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.19                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.74                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.29                  |                      |
| 05 05 23 00-0237 | EA  |     | 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....             | 17.61                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.19                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.74                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.29                  |                      |
| 05 05 23 00-0238 | EA  |     | 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....         | 18.33                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.19                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.74                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.29                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0239 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 18.60                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0240 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 20.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0241 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 21.06                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0242 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 22.31                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0243 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 23.09                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0244 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 24.13                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0245 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 25.14                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| <br>   |                           |                         |
| <b>05 05 23 00-0246 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b> |                           |                         |
| 05 05 23 00-0247 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 15.09                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0248 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 15.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0249 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 15.51                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0250 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 16.12                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.50                     |                         |
| 05 05 23 00-0251 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 16.88                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.50                     |                         |
| 05 05 23 00-0252 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 17.77                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.50                     |                         |
| 05 05 23 00-0253 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 18.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.57                     |                         |
| 05 05 23 00-0254 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 20.04                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.57                     |                         |
| 05 05 23 00-0255 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 20.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.57                     |                         |
| 05 05 23 00-0256 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 21.55                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.64                     |                         |
| 05 05 23 00-0257 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 21.98                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.64                     |                         |
| 05 05 23 00-0258 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 23.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.64                     |                         |
| 05 05 23 00-0259 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 24.25                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.70                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0260 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....  | 25.28                     |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0261 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....      | 26.31                     |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0262 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....  | 27.50                     |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0263 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....      | 28.58                     |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0264 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....  | 29.57                     |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0265 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 30.64                     |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| <b>05 05 23 00-0266 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> (05 05 23 00-0098) |                           |                         |
| 05 05 23 00-0267 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 16.35                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0268 EA 1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 18.22                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0269 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 19.63                     |                         |
| For>100 To 250, Deduct  | -2.33                     |                         |
| For>250 To 500, Deduct  | -2.92                     |                         |
| For>500, Deduct   | -3.50                     |                         |
| 05 05 23 00-0270 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 21.11                     |                         |
| For>100 To 250, Deduct  | -2.33                     |                         |
| For>250 To 500, Deduct  | -2.92                     |                         |
| For>500, Deduct   | -3.50                     |                         |
| 05 05 23 00-0271 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 22.45                     |                         |
| For>100 To 250, Deduct  | -2.33                     |                         |
| For>250 To 500, Deduct  | -2.92                     |                         |
| For>500, Deduct   | -3.50                     |                         |
| 05 05 23 00-0272 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 24.07                     |                         |
| For>100 To 250, Deduct  | -2.38                     |                         |
| For>250 To 500, Deduct  | -2.97                     |                         |
| For>500, Deduct   | -3.57                     |                         |
| 05 05 23 00-0273 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 25.37                     |                         |
| For>100 To 250, Deduct  | -2.38                     |                         |
| For>250 To 500, Deduct  | -2.97                     |                         |
| For>500, Deduct   | -3.57                     |                         |
| 05 05 23 00-0274 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 26.71                     |                         |
| For>100 To 250, Deduct  | -2.38                     |                         |
| For>250 To 500, Deduct  | -2.97                     |                         |
| For>500, Deduct   | -3.57                     |                         |
| 05 05 23 00-0275 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 27.61                     |                         |
| For>100 To 250, Deduct  | -2.42                     |                         |
| For>250 To 500, Deduct  | -3.03                     |                         |
| For>500, Deduct   | -3.64                     |                         |
| 05 05 23 00-0276 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 28.25                     |                         |
| For>100 To 250, Deduct  | -2.42                     |                         |
| For>250 To 500, Deduct  | -3.03                     |                         |
| For>500, Deduct   | -3.64                     |                         |
| 05 05 23 00-0277 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 29.38                     |                         |
| For>100 To 250, Deduct  | -2.42                     |                         |
| For>250 To 500, Deduct  | -3.03                     |                         |
| For>500, Deduct   | -3.64                     |                         |
| 05 05 23 00-0278 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 30.73                     |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0279 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 31.85                     |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0280 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....        | 33.01                     |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0281 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 34.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| 05 05 23 00-0282 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 35.48                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| 05 05 23 00-0283 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 36.64                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| 05 05 23 00-0284 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 37.82                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| <b>05 05 23 00-0285 Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0097)</b>                      |                           |                         |
| <b>05 05 23 00-0286 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)</b>       |                           |                         |
| 05 05 23 00-0287 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....            | 8.19                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0288 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 8.25                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0289 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 8.30                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0290 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 8.40                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0291 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 8.73                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0292 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 8.91                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0293 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 9.10                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0294 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 9.48                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0295 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 9.72                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0296 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 9.88                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 10.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 10.43                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 10.58                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 11.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 11.21                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....              | 11.43                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 05 23 00-0303 |     |     | <b>5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small> |                        |                      |
| 05 05 23 00-0304 | EA  |     | 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                             | 8.31                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0305 | EA  |     | 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 8.35                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0306 | EA  |     | 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 8.42                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0307 | EA  |     | 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 8.56                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0308 | EA  |     | 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 8.89                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0309 | EA  |     | 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 9.06                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0310 | EA  |     | 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 9.35                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0311 | EA  |     | 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 9.73                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0312 | EA  |     | 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 9.97                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0313 | EA  |     | 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 10.18                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0314 | EA  |     | 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 10.84                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0315 | EA  |     | 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 10.92                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0316 | EA  |     | 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 11.21                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0317 | EA  |     | 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 11.81                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0318 | EA  |     | 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                           | 12.21                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0319 | EA  |     | 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                               | 12.59                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0320 |     |     | <b>3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>  |                        |                      |
| 05 05 23 00-0321 | EA  |     | 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                              | 8.37                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0322 | EA  |     | 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                                | 8.41                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0323 | EA  |     | 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt                            | 8.54                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0324 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 8.68                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0325 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 9.07                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0326 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 9.23                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0327 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 9.49                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0328 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 10.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0329 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 10.61                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0330 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 10.89                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0331 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 11.48                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0332 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 11.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0333 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 12.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0334 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 12.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-0335 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 13.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-0336 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 13.86                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| <b>05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small> ..... | <b>9.79</b>               |                         |
| 05 05 23 00-0338 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 9.79                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 9.91                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 10.23                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 10.70                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 10.93                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 11.14                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 11.65                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0345 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 12.85                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0346 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 13.39                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0347 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 13.78                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0348 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 14.03                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0349 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 14.29                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0350 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 14.87                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-0351 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 15.22                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-0352 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 15.57                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| <b>05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)</b> |                           |                         |
| 05 05 23 00-0354 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 9.95                      |                         |
| For>100 To 250, Deduct   | -1.83                     |                         |
| For>250 To 500, Deduct   | -2.29                     |                         |
| For>500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0355 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 10.12                     |                         |
| For>100 To 250, Deduct   | -1.83                     |                         |
| For>250 To 500, Deduct   | -2.29                     |                         |
| For>500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0356 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 10.30                     |                         |
| For>100 To 250, Deduct   | -1.83                     |                         |
| For>250 To 500, Deduct   | -2.29                     |                         |
| For>500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0357 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 10.82                     |                         |
| For>100 To 250, Deduct   | -1.87                     |                         |
| For>250 To 500, Deduct   | -2.34                     |                         |
| For>500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0358 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 11.09                     |                         |
| For>100 To 250, Deduct   | -1.87                     |                         |
| For>250 To 500, Deduct   | -2.34                     |                         |
| For>500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0359 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 11.38                     |                         |
| For>100 To 250, Deduct   | -1.87                     |                         |
| For>250 To 500, Deduct   | -2.34                     |                         |
| For>500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0360 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 11.87                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0361 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 12.82                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0362 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 12.88                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0363 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 13.75                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0364 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 14.12                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0365 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 15.07                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0366 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 16.15                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0367 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 16.68                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0368 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 16.88                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| 05 05 23 00-0369 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 18.09                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0370 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                             | 19.02                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0371 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                         | 20.33                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0372 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 20.84                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| <b>05 05 23 00-0373 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small> .....</b> | <b>10.47</b>              |                         |
| 05 05 23 00-0374 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 10.47                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0375 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 10.77                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0376 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 11.05                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0377 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 11.58                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0378 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 11.96                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0379 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 12.39                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0380 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 13.11                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0381 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 14.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0382 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 15.19                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0383 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 15.89                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0384 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 16.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0385 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                        | 17.87                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0386 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....                            | 19.98                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0387 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 20.61                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-0388 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 21.66                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-0389 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 22.88                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0390 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 23.26                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0391 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....   | 23.65                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0392 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....      | 24.59                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| <b>05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)</b> |                           |                         |
| 05 05 23 00-0394 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 11.94                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0395 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 12.05                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0396 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 12.14                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0397 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 12.65                     |                         |
| For>100 To 250, Deduct   | -2.10                     |                         |
| For>250 To 500, Deduct   | -2.63                     |                         |
| For>500, Deduct  | -3.15                     |                         |
| 05 05 23 00-0398 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 13.15                     |                         |
| For>100 To 250, Deduct   | -2.10                     |                         |
| For>250 To 500, Deduct   | -2.63                     |                         |
| For>500, Deduct  | -3.15                     |                         |
| 05 05 23 00-0399 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 13.61                     |                         |
| For>100 To 250, Deduct   | -2.10                     |                         |
| For>250 To 500, Deduct   | -2.63                     |                         |
| For>500, Deduct  | -3.15                     |                         |
| 05 05 23 00-0400 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 14.31                     |                         |
| For>100 To 250, Deduct   | -2.15                     |                         |
| For>250 To 500, Deduct   | -2.69                     |                         |
| For>500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0401 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 15.20                     |                         |
| For>100 To 250, Deduct   | -2.15                     |                         |
| For>250 To 500, Deduct   | -2.69                     |                         |
| For>500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0402 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 15.67                     |                         |
| For>100 To 250, Deduct   | -2.15                     |                         |
| For>250 To 500, Deduct   | -2.69                     |                         |
| For>500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0403 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 16.14                     |                         |
| For>100 To 250, Deduct   | -2.19                     |                         |
| For>250 To 500, Deduct   | -2.74                     |                         |
| For>500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0404 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 16.91                     |                         |
| For>100 To 250, Deduct   | -2.19                     |                         |
| For>250 To 500, Deduct   | -2.74                     |                         |
| For>500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0405 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 18.11                     |                         |
| For>100 To 250, Deduct   | -2.19                     |                         |
| For>250 To 500, Deduct   | -2.74                     |                         |
| For>500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0406 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 19.44                     |                         |
| For>100 To 250, Deduct   | -2.24                     |                         |
| For>250 To 500, Deduct   | -2.80                     |                         |
| For>500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0407 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 20.43                     |                         |
| For>100 To 250, Deduct   | -2.24                     |                         |
| For>250 To 500, Deduct   | -2.80                     |                         |
| For>500, Deduct  | -3.36                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0408 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 20.59                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0409 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 22.62                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0410 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 23.96                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0411 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 25.93                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0412 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 26.62                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| <b>05 05 23 00-0413 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)</b> |                           |                         |
| 05 05 23 00-0414 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 13.07                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0415 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 13.27                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0416 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 13.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0417 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 14.02                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0418 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 14.52                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0419 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 15.29                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0420 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 16.04                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0421 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 16.53                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0422 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 17.56                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0423 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 18.27                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0424 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 19.12                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0425 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 20.16                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0426 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 21.87                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0427 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....    | 22.95                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0428 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....        | 23.56                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |

## 05 Metals

## 05 05 Common Work Results for Metals

## 05 05 23 Metal Fastenings



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 05 23 00-0429 | EA  |     | 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 25.41                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0430 | EA  |     | 3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 25.96                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0431 | EA  |     | 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 27.75                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0432 | EA  |     | 3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....          | 28.19                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0433 |     |     | <b>7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> (05 05 23 00-0285) |                        |                      |
| 05 05 23 00-0434 | EA  |     | 7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 15.63                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0435 | EA  |     | 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 15.87                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0436 | EA  |     | 7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 16.21                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.86                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.43                  |                      |
| 05 05 23 00-0437 | EA  |     | 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 16.77                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.33                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.92                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.50                  |                      |
| 05 05 23 00-0438 | EA  |     | 7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 17.78                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.33                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.92                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.50                  |                      |
| 05 05 23 00-0439 | EA  |     | 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 18.45                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.33                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.92                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.50                  |                      |
| 05 05 23 00-0440 | EA  |     | 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 19.19                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.38                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.97                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.57                  |                      |
| 05 05 23 00-0441 | EA  |     | 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 20.38                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.38                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.97                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.57                  |                      |
| 05 05 23 00-0442 | EA  |     | 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 21.28                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.38                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.97                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.57                  |                      |
| 05 05 23 00-0443 | EA  |     | 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 21.93                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.42                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.03                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.64                  |                      |
| 05 05 23 00-0444 | EA  |     | 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 22.68                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.42                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.03                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.64                  |                      |
| 05 05 23 00-0445 | EA  |     | 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 25.89                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.42                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.03                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.64                  |                      |
| 05 05 23 00-0446 | EA  |     | 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 27.25                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.47                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.09                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.70                  |                      |
| 05 05 23 00-0447 | EA  |     | 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 28.66                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.47                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.09                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.70                  |                      |
| 05 05 23 00-0448 | EA  |     | 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....           | 28.75                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.47                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.09                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.70                  |                      |
| 05 05 23 00-0449 | EA  |     | 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....       | 31.01                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.51                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.14                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -3.77                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0450 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                     | 32.38                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0451 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                 | 33.56                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0452 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                    | 34.73                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |
| <b>05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small> |                           |                         |
| 05 05 23 00-0454 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 17.87                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0455 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 17.95                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0456 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 18.93                     |                         |
| For >100 To 250, Deduct   | -2.33                     |                         |
| For >250 To 500, Deduct   | -2.92                     |                         |
| For >500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0457 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 19.90                     |                         |
| For >100 To 250, Deduct   | -2.33                     |                         |
| For >250 To 500, Deduct   | -2.92                     |                         |
| For >500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0458 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 20.62                     |                         |
| For >100 To 250, Deduct   | -2.33                     |                         |
| For >250 To 500, Deduct   | -2.92                     |                         |
| For >500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0459 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 21.77                     |                         |
| For >100 To 250, Deduct   | -2.38                     |                         |
| For >250 To 500, Deduct   | -2.97                     |                         |
| For >500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0460 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 22.91                     |                         |
| For >100 To 250, Deduct   | -2.38                     |                         |
| For >250 To 500, Deduct   | -2.97                     |                         |
| For >500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0461 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 24.57                     |                         |
| For >100 To 250, Deduct   | -2.38                     |                         |
| For >250 To 500, Deduct   | -2.97                     |                         |
| For >500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0462 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 26.00                     |                         |
| For >100 To 250, Deduct   | -2.42                     |                         |
| For >250 To 500, Deduct   | -3.03                     |                         |
| For >500, Deduct  | -3.64                     |                         |
| 05 05 23 00-0463 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 26.35                     |                         |
| For >100 To 250, Deduct   | -2.42                     |                         |
| For >250 To 500, Deduct   | -3.03                     |                         |
| For >500, Deduct  | -3.64                     |                         |
| 05 05 23 00-0464 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 28.67                     |                         |
| For >100 To 250, Deduct   | -2.42                     |                         |
| For >250 To 500, Deduct   | -3.03                     |                         |
| For >500, Deduct  | -3.64                     |                         |
| 05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 30.38                     |                         |
| For >100 To 250, Deduct   | -2.47                     |                         |
| For >250 To 500, Deduct   | -3.09                     |                         |
| For >500, Deduct  | -3.70                     |                         |
| 05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 32.85                     |                         |
| For >100 To 250, Deduct   | -2.47                     |                         |
| For >250 To 500, Deduct   | -3.09                     |                         |
| For >500, Deduct  | -3.70                     |                         |
| 05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 33.56                     |                         |
| For >100 To 250, Deduct   | -2.47                     |                         |
| For >250 To 500, Deduct   | -3.09                     |                         |
| For >500, Deduct  | -3.70                     |                         |
| 05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 41.71                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                       | 42.33                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....                   | 44.03                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....             | 45.19                     |                         |
| For >100 To 250, Deduct   | -2.51                     |                         |
| For >250 To 500, Deduct   | -3.14                     |                         |
| For >500, Deduct  | -3.77                     |                         |
| <b>05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)</b>                     |                           |                         |
| <b>05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b>      |                           |                         |
| 05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....   | 8.22                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 8.34                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 8.40                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 8.53                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 8.84                      |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 8.98                      |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 9.11                      |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 9.35                      |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 9.73                      |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 10.09                     |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 10.51                     |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 10.70                     |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 10.95                     |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0487 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 11.34                     |                         |
| For >100 To 250, Deduct   | -1.78                     |                         |
| For >250 To 500, Deduct   | -2.23                     |                         |
| For >500, Deduct  | -2.67                     |                         |
| 05 05 23 00-0488 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 11.81                     |                         |
| For >100 To 250, Deduct   | -1.78                     |                         |
| For >250 To 500, Deduct   | -2.23                     |                         |
| For >500, Deduct  | -2.67                     |                         |
| 05 05 23 00-0489 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....     | 12.02                     |                         |
| For >100 To 250, Deduct   | -1.78                     |                         |
| For >250 To 500, Deduct   | -2.23                     |                         |
| For >500, Deduct  | -2.67                     |                         |
| <b>05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b>     |                           |                         |
| 05 05 23 00-0491 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 8.33                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0492 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....    | 8.40                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0493 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 8.63                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0494 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 8.67                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0495 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 9.03                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0496 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 9.37                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0497 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 9.47                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0498 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 9.89                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0499 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 10.11                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0500 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 10.60                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0501 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 11.12                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0502 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 11.30                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0503 EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 11.59                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0504 EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 12.01                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0505 EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....          | 12.22                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0506 EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 12.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| <b>05 05 23 00-0507 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small></b> |                           |                         |
| 05 05 23 00-0508 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....              | 8.57                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0509 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 8.60                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0510 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 8.61                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0511 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 8.88                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0512 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 9.26                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0513 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 9.53                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 05 23 00-0514        | EA  |     | 3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....               | 9.77                   |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0515        | EA  |     | 3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                    | 10.76                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0516        | EA  |     | 3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....               | 11.07                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0517        | EA  |     | 3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                    | 11.13                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0518        | EA  |     | 3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....               | 11.48                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0519        | EA  |     | 3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                    | 11.82                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0520        | EA  |     | 3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....               | 13.31                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0521        | EA  |     | 3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                    | 13.89                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0522        | EA  |     | 3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....               | 14.56                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0523        | EA  |     | 3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                    | 16.13                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| <b>05 05 23 00-0524</b> |     |     | <b>7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small> |                        |                      |
| 05 05 23 00-0525        | EA  |     | 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                   | 9.97                   |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.83                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.29                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.74                  |                      |
| 05 05 23 00-0526        | EA  |     | 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....              | 10.01                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.83                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.29                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.74                  |                      |
| 05 05 23 00-0527        | EA  |     | 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                   | 10.43                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.83                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.29                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.74                  |                      |
| 05 05 23 00-0528        | EA  |     | 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....              | 10.70                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.87                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.34                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.81                  |                      |
| 05 05 23 00-0529        | EA  |     | 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                   | 11.17                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.87                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.34                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.81                  |                      |
| 05 05 23 00-0530        | EA  |     | 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....              | 11.43                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.87                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.34                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.81                  |                      |
| 05 05 23 00-0531        | EA  |     | 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                   | 11.71                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.92                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.40                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.88                  |                      |
| 05 05 23 00-0532        | EA  |     | 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....              | 12.76                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.92                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.40                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.88                  |                      |
| 05 05 23 00-0533        | EA  |     | 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                   | 13.58                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.92                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.40                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.88                  |                      |
| 05 05 23 00-0534        | EA  |     | 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....              | 14.36                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.97                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -2.46                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.95                  |                      |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 05 05 23 00-0535        | EA    |     |     | 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 14.65                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.97                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.46                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.95                  |                      |
| 05 05 23 00-0536        | EA    |     |     | 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 15.08                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.97                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.46                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.95                  |                      |
| 05 05 23 00-0537        | EA    |     |     | 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 15.95                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.01                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.52                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -3.02                  |                      |
| 05 05 23 00-0538        | EA    |     |     | 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 17.34                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.01                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.52                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -3.02                  |                      |
| 05 05 23 00-0539        | EA    |     |     | 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 17.45                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.01                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.52                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -3.02                  |                      |
| <b>05 05 23 00-0540</b> |       |     |     | <b>1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b>    |                        |                      |
| 05 05 23 00-0541        | EA    |     |     | 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 10.24                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.83                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.29                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.74                  |                      |
| 05 05 23 00-0542        | EA    |     |     | 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 10.55                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.83                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.29                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.74                  |                      |
| 05 05 23 00-0543        | EA    |     |     | 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 10.74                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.83                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.29                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.74                  |                      |
| 05 05 23 00-0544        | EA    |     |     | 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 11.17                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.87                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.34                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.81                  |                      |
| 05 05 23 00-0545        | EA    |     |     | 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 11.51                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.87                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.34                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.81                  |                      |
| 05 05 23 00-0546        | EA    |     |     | 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 12.27                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.87                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.34                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.81                  |                      |
| 05 05 23 00-0547        | EA    |     |     | 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 13.03                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.92                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.40                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.88                  |                      |
| 05 05 23 00-0548        | EA    |     |     | 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 13.48                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.92                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.40                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.88                  |                      |
| 05 05 23 00-0549        | EA    |     |     | 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 13.80                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.92                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.40                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.88                  |                      |
| 05 05 23 00-0550        | EA    |     |     | 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 14.58                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.97                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.46                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.95                  |                      |
| 05 05 23 00-0551        | EA    |     |     | 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 15.54                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.97                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.46                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.95                  |                      |
| 05 05 23 00-0552        | EA    |     |     | 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 16.42                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.97                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.46                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -2.95                  |                      |
| 05 05 23 00-0553        | EA    |     |     | 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 17.42                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.01                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.52                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -3.02                  |                      |
| 05 05 23 00-0554        | EA    |     |     | 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 17.81                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.01                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.52                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -3.02                  |                      |
| 05 05 23 00-0555        | EA    |     |     | 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 18.91                  |                      |
|                         |       |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.01                  |                      |
|                         |       |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.52                  |                      |
|                         |       |     |     | <i>For &gt;500, Deduct</i>   | -3.02                  |                      |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0556 EA 1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....   | 20.97                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0557 EA 1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....        | 21.77                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0558 EA 1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....   | 22.18                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| 05 05 23 00-0559 EA 1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 24.15                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| <b>05 05 23 00-0560 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b> ..... |                           |                         |
| 05 05 23 00-0561 EA 9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 10.53                     |                         |
| For >100 To 250, Deduct   | -1.83                     |                         |
| For >250 To 500, Deduct   | -2.29                     |                         |
| For >500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0562 EA 9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 10.71                     |                         |
| For >100 To 250, Deduct   | -1.83                     |                         |
| For >250 To 500, Deduct   | -2.29                     |                         |
| For >500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0563 EA 9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 11.14                     |                         |
| For >100 To 250, Deduct   | -1.83                     |                         |
| For >250 To 500, Deduct   | -2.29                     |                         |
| For >500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0564 EA 9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 12.00                     |                         |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 500, Deduct   | -2.34                     |                         |
| For >500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0565 EA 9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 12.15                     |                         |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 500, Deduct   | -2.34                     |                         |
| For >500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0566 EA 9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 12.77                     |                         |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 500, Deduct   | -2.34                     |                         |
| For >500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0567 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 13.42                     |                         |
| For >100 To 250, Deduct   | -1.92                     |                         |
| For >250 To 500, Deduct   | -2.40                     |                         |
| For >500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0568 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 15.46                     |                         |
| For >100 To 250, Deduct   | -1.92                     |                         |
| For >250 To 500, Deduct   | -2.40                     |                         |
| For >500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0569 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 15.86                     |                         |
| For >100 To 250, Deduct   | -1.92                     |                         |
| For >250 To 500, Deduct   | -2.40                     |                         |
| For >500, Deduct  | -2.88                     |                         |
| 05 05 23 00-0570 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 16.41                     |                         |
| For >100 To 250, Deduct   | -1.97                     |                         |
| For >250 To 500, Deduct   | -2.46                     |                         |
| For >500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0571 EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 17.29                     |                         |
| For >100 To 250, Deduct   | -1.97                     |                         |
| For >250 To 500, Deduct   | -2.46                     |                         |
| For >500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0572 EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 20.64                     |                         |
| For >100 To 250, Deduct   | -1.97                     |                         |
| For >250 To 500, Deduct   | -2.46                     |                         |
| For >500, Deduct  | -2.95                     |                         |
| 05 05 23 00-0573 EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 24.79                     |                         |
| For >100 To 250, Deduct   | -2.01                     |                         |
| For >250 To 500, Deduct   | -2.52                     |                         |
| For >500, Deduct  | -3.02                     |                         |
| 05 05 23 00-0574 EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....  | 29.63                     |                         |
| For >100 To 250, Deduct   | -2.01                     |                         |
| For >250 To 500, Deduct   | -2.52                     |                         |
| For >500, Deduct  | -3.02                     |                         |
| 05 05 23 00-0575 EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....       | 34.89                     |                         |
| For >100 To 250, Deduct   | -2.01                     |                         |
| For >250 To 500, Deduct   | -2.52                     |                         |
| For >500, Deduct  | -3.02                     |                         |

05 05 23 00-0576 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0577 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 12.34                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |
| 05 05 23 00-0578 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 12.52                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |
| 05 05 23 00-0579 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 12.99                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |
| 05 05 23 00-0580 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 13.90                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.15                     |                         |
| 05 05 23 00-0581 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 14.46                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.15                     |                         |
| 05 05 23 00-0582 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 14.77                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.15                     |                         |
| 05 05 23 00-0583 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 15.21                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.22                     |                         |
| 05 05 23 00-0584 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 16.22                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.22                     |                         |
| 05 05 23 00-0585 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 16.66                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.22                     |                         |
| 05 05 23 00-0586 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 17.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.29                     |                         |
| 05 05 23 00-0587 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 17.84                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.29                     |                         |
| 05 05 23 00-0588 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 18.83                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.29                     |                         |
| 05 05 23 00-0589 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 21.41                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.36                     |                         |
| 05 05 23 00-0590 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 22.54                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.36                     |                         |
| 05 05 23 00-0591 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 23.01                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.36                     |                         |
| 05 05 23 00-0592 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 25.24                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0593 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 27.46                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0594 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....           | 27.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0595 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....               | 29.69                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| <b>05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small> |                           |                         |
| 05 05 23 00-0597 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....                | 13.39                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0598 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 13.59                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0599 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 13.72                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0600 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 14.23                     |                         |
| For>100 To 250, Deduct  | -2.10                     |                         |
| For>250 To 500, Deduct  | -2.63                     |                         |
| For>500, Deduct   | -3.15                     |                         |
| 05 05 23 00-0601 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 14.65                     |                         |
| For>100 To 250, Deduct  | -2.10                     |                         |
| For>250 To 500, Deduct  | -2.63                     |                         |
| For>500, Deduct   | -3.15                     |                         |
| 05 05 23 00-0602 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 15.85                     |                         |
| For>100 To 250, Deduct  | -2.10                     |                         |
| For>250 To 500, Deduct  | -2.63                     |                         |
| For>500, Deduct   | -3.15                     |                         |
| 05 05 23 00-0603 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 16.59                     |                         |
| For>100 To 250, Deduct  | -2.15                     |                         |
| For>250 To 500, Deduct  | -2.69                     |                         |
| For>500, Deduct   | -3.22                     |                         |
| 05 05 23 00-0604 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 16.69                     |                         |
| For>100 To 250, Deduct  | -2.15                     |                         |
| For>250 To 500, Deduct  | -2.69                     |                         |
| For>500, Deduct   | -3.22                     |                         |
| 05 05 23 00-0605 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 18.33                     |                         |
| For>100 To 250, Deduct  | -2.15                     |                         |
| For>250 To 500, Deduct  | -2.69                     |                         |
| For>500, Deduct   | -3.22                     |                         |
| 05 05 23 00-0606 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 19.15                     |                         |
| For>100 To 250, Deduct  | -2.19                     |                         |
| For>250 To 500, Deduct  | -2.74                     |                         |
| For>500, Deduct   | -3.29                     |                         |
| 05 05 23 00-0607 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 20.01                     |                         |
| For>100 To 250, Deduct  | -2.19                     |                         |
| For>250 To 500, Deduct  | -2.74                     |                         |
| For>500, Deduct   | -3.29                     |                         |
| 05 05 23 00-0608 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 21.61                     |                         |
| For>100 To 250, Deduct  | -2.19                     |                         |
| For>250 To 500, Deduct  | -2.74                     |                         |
| For>500, Deduct   | -3.29                     |                         |
| 05 05 23 00-0609 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 23.79                     |                         |
| For>100 To 250, Deduct  | -2.24                     |                         |
| For>250 To 500, Deduct  | -2.80                     |                         |
| For>500, Deduct   | -3.36                     |                         |
| 05 05 23 00-0610 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 24.65                     |                         |
| For>100 To 250, Deduct  | -2.24                     |                         |
| For>250 To 500, Deduct  | -2.80                     |                         |
| For>500, Deduct   | -3.36                     |                         |
| 05 05 23 00-0611 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 25.09                     |                         |
| For>100 To 250, Deduct  | -2.24                     |                         |
| For>250 To 500, Deduct  | -2.80                     |                         |
| For>500, Deduct   | -3.36                     |                         |
| 05 05 23 00-0612 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 27.43                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0613 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 28.98                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0614 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt ..... | 30.10                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0615 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....     | 30.51                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472) .....       | 17.43                     |                         |
| EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....                  | 17.43                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |
| 05 05 23 00-0618 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....      | 17.96                     |                         |
| For>100 To 250, Deduct  | -2.29                     |                         |
| For>250 To 500, Deduct  | -2.86                     |                         |
| For>500, Deduct   | -3.43                     |                         |



|                  | MINOR<br>CSI UOM DESCRIPTION   |       | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|--|-------|---------------------------|-------------------------|
| 05 05 23 00-0619 | EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 18.97 | -2.33<br>-2.92<br>-3.50   |                         |
| 05 05 23 00-0620 | EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 20.56 | -2.33<br>-2.92<br>-3.50   |                         |
| 05 05 23 00-0621 | EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 20.74 | -2.33<br>-2.92<br>-3.50   |                         |
| 05 05 23 00-0622 | EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 21.31 | -2.38<br>-2.97<br>-3.57   |                         |
| 05 05 23 00-0623 | EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 25.14 | -2.38<br>-2.97<br>-3.57   |                         |
| 05 05 23 00-0624 | EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 26.12 | -2.38<br>-2.97<br>-3.57   |                         |
| 05 05 23 00-0625 | EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 28.62 | -2.42<br>-3.03<br>-3.64   |                         |
| 05 05 23 00-0626 | EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 30.06 | -2.42<br>-3.03<br>-3.64   |                         |
| 05 05 23 00-0627 | EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 33.76 | -2.42<br>-3.03<br>-3.64   |                         |
| 05 05 23 00-0628 | EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 35.22 | -2.47<br>-3.09<br>-3.70   |                         |
| 05 05 23 00-0629 | EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 39.04 | -2.47<br>-3.09<br>-3.70   |                         |
| 05 05 23 00-0630 | EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 40.58 | -2.47<br>-3.09<br>-3.70   |                         |
| 05 05 23 00-0631 | EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 42.04 | -2.51<br>-3.14<br>-3.77   |                         |
| 05 05 23 00-0632 | EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>      | 42.49 | -2.51<br>-3.14<br>-3.77   |                         |
| 05 05 23 00-0633 | EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 42.87 | -2.51<br>-3.14<br>-3.77   |                         |
| 05 05 23 00-0634 | EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>     | 43.78 | -2.51<br>-3.14<br>-3.77   |                         |
| 05 05 23 00-0635 | <b>1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small>   |       |                           |                         |
| 05 05 23 00-0636 | EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>   | 18.94 | -2.29<br>-2.86<br>-3.43   |                         |
| 05 05 23 00-0637 | EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>       | 20.27 | -2.29<br>-2.86<br>-3.43   |                         |
| 05 05 23 00-0638 | EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>   | 21.08 | -2.33<br>-2.92<br>-3.50   |                         |
| 05 05 23 00-0639 | EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....<br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>       | 22.07 | -2.33<br>-2.92<br>-3.50   |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0640 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 23.93                     |                         |
| For >100 To 250, Deduct  | -2.33                     |                         |
| For >250 To 500, Deduct  | -2.92                     |                         |
| For >500, Deduct   | -3.50                     |                         |
| 05 05 23 00-0641 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                      | 24.65                     |                         |
| For >100 To 250, Deduct  | -2.38                     |                         |
| For >250 To 500, Deduct  | -2.97                     |                         |
| For >500, Deduct   | -3.57                     |                         |
| 05 05 23 00-0642 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 26.25                     |                         |
| For >100 To 250, Deduct  | -2.38                     |                         |
| For >250 To 500, Deduct  | -2.97                     |                         |
| For >500, Deduct   | -3.57                     |                         |
| 05 05 23 00-0643 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                      | 28.39                     |                         |
| For >100 To 250, Deduct  | -2.38                     |                         |
| For >250 To 500, Deduct  | -2.97                     |                         |
| For >500, Deduct   | -3.57                     |                         |
| 05 05 23 00-0644 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 29.63                     |                         |
| For >100 To 250, Deduct  | -2.42                     |                         |
| For >250 To 500, Deduct  | -3.03                     |                         |
| For >500, Deduct   | -3.64                     |                         |
| 05 05 23 00-0645 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                      | 30.53                     |                         |
| For >100 To 250, Deduct  | -2.42                     |                         |
| For >250 To 500, Deduct  | -3.03                     |                         |
| For >500, Deduct   | -3.64                     |                         |
| 05 05 23 00-0646 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 35.00                     |                         |
| For >100 To 250, Deduct  | -2.42                     |                         |
| For >250 To 500, Deduct  | -3.03                     |                         |
| For >500, Deduct   | -3.64                     |                         |
| 05 05 23 00-0647 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                      | 35.91                     |                         |
| For >100 To 250, Deduct  | -2.47                     |                         |
| For >250 To 500, Deduct  | -3.09                     |                         |
| For >500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0648 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 40.96                     |                         |
| For >100 To 250, Deduct  | -2.47                     |                         |
| For >250 To 500, Deduct  | -3.09                     |                         |
| For >500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0649 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                      | 41.83                     |                         |
| For >100 To 250, Deduct  | -2.47                     |                         |
| For >250 To 500, Deduct  | -3.09                     |                         |
| For >500, Deduct   | -3.70                     |                         |
| 05 05 23 00-0650 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 44.75                     |                         |
| For >100 To 250, Deduct  | -2.51                     |                         |
| For >250 To 500, Deduct  | -3.14                     |                         |
| For >500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0651 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                      | 46.21                     |                         |
| For >100 To 250, Deduct  | -2.51                     |                         |
| For >250 To 500, Deduct  | -3.14                     |                         |
| For >500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0652 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                  | 50.06                     |                         |
| For >100 To 250, Deduct  | -2.51                     |                         |
| For >250 To 500, Deduct  | -3.14                     |                         |
| For >500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0653 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt                     | 52.41                     |                         |
| For >100 To 250, Deduct  | -2.51                     |                         |
| For >250 To 500, Deduct  | -3.14                     |                         |
| For >500, Deduct   | -3.77                     |                         |
| 05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)                |                           |                         |
| 05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654) |                           |                         |
| 05 05 23 00-0656 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt    | 8.38                      |                         |
| For >100 To 250, Deduct  | -1.60                     |                         |
| For >250 To 500, Deduct  | -2.00                     |                         |
| For >500, Deduct   | -2.40                     |                         |
| 05 05 23 00-0657 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt      | 8.40                      |                         |
| For >100 To 250, Deduct  | -1.60                     |                         |
| For >250 To 500, Deduct  | -2.00                     |                         |
| For >500, Deduct   | -2.40                     |                         |
| 05 05 23 00-0658 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt  | 8.42                      |                         |
| For >100 To 250, Deduct  | -1.60                     |                         |
| For >250 To 500, Deduct  | -2.00                     |                         |
| For >500, Deduct   | -2.40                     |                         |
| 05 05 23 00-0659 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt      | 8.70                      |                         |
| For >100 To 250, Deduct  | -1.60                     |                         |
| For >250 To 500, Deduct  | -2.00                     |                         |
| For >500, Deduct   | -2.40                     |                         |
| 05 05 23 00-0660 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt  | 9.06                      |                         |
| For >100 To 250, Deduct  | -1.65                     |                         |
| For >250 To 500, Deduct  | -2.06                     |                         |
| For >500, Deduct   | -2.47                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 9.22                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 9.29                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 9.54                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 9.73                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 9.78                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 10.14                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 10.31                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 10.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.61                     |                         |
| 05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 10.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 11.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 11.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| <b>05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> |                           |                         |
| 05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                     | 8.26                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.78                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 8.83                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.85                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.40                     |                         |
| 05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.32                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.82                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.91                      |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.47                     |                         |
| 05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |
| 05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.32                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.54                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR                   | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|---|------------------------|----------------------|
| 05 05 23 00-0682        | EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 10.72                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0683        | EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 11.06                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0684        | EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 11.21                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0685        | EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 11.59                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0686        | EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 12.57                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0687        | EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                  | 13.18                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| 05 05 23 00-0688        | EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 13.75                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.78                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.23                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.67                  |                      |
| <b>05 05 23 00-0689</b> | <b>3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> |                        |                      |
| 05 05 23 00-0690        | EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                     | 8.42                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0691        | EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.54                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0692        | EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 8.67                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0693        | EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 8.99                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.60                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.00                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.40                  |                      |
| 05 05 23 00-0694        | EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.36                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0695        | EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 9.63                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0696        | EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 9.82                   |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.65                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.06                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.47                  |                      |
| 05 05 23 00-0697        | EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.31                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0698        | EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.44                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0699        | EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.76                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.69                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.12                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.54                  |                      |
| 05 05 23 00-0700        | EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.13                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0701        | EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.57                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |
| 05 05 23 00-0702        | EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 11.65                  |                      |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -1.74                  |                      |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -2.17                  |                      |
|                         | <i>For &gt;500, Deduct</i>  | -2.61                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0703 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 11.90                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0704 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 11.95                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| 05 05 23 00-0705 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 12.47                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.67                     |                         |
| <b>05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> |                           |                         |
| 05 05 23 00-0707 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 10.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0708 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 10.93                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0709 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0710 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-0711 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.38                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-0712 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.42                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-0713 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.02                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-0714 EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 13.43                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-0715 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.80                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-0716 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.44                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.95                     |                         |
| 05 05 23 00-0717 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 14.87                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.95                     |                         |
| <b>05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>  |                           |                         |
| 05 05 23 00-0719 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 10.10                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0720 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 10.29                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0721 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 10.66                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-0722 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                    | 11.32                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-0723 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                        | 11.61                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0724 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.15                     |                         |
| For >100 To 250, Deduct  | -1.87                     |                         |
| For >250 To 500, Deduct  | -2.34                     |                         |
| For >500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0725 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.47                     |                         |
| For >100 To 250, Deduct  | -1.92                     |                         |
| For >250 To 500, Deduct  | -2.40                     |                         |
| For >500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0726 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.67                     |                         |
| For >100 To 250, Deduct  | -1.92                     |                         |
| For >250 To 500, Deduct  | -2.40                     |                         |
| For >500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0727 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.10                     |                         |
| For >100 To 250, Deduct  | -1.92                     |                         |
| For >250 To 500, Deduct  | -2.40                     |                         |
| For >500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0728 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 13.52                     |                         |
| For >100 To 250, Deduct  | -1.97                     |                         |
| For >250 To 500, Deduct  | -2.46                     |                         |
| For >500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0729 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 14.00                     |                         |
| For >100 To 250, Deduct  | -1.97                     |                         |
| For >250 To 500, Deduct  | -2.46                     |                         |
| For >500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0730 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.04                     |                         |
| For >100 To 250, Deduct  | -1.97                     |                         |
| For >250 To 500, Deduct  | -2.46                     |                         |
| For >500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0731 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 14.36                     |                         |
| For >100 To 250, Deduct  | -2.01                     |                         |
| For >250 To 500, Deduct  | -2.52                     |                         |
| For >500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0732 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.49                     |                         |
| For >100 To 250, Deduct  | -2.01                     |                         |
| For >250 To 500, Deduct  | -2.52                     |                         |
| For >500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0733 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 14.85                     |                         |
| For >100 To 250, Deduct  | -2.01                     |                         |
| For >250 To 500, Deduct  | -2.52                     |                         |
| For >500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0734 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 16.79                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0735 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 17.08                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0736 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 17.14                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0737 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 17.31                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| <b>05 05 23 00-0738 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> |                           |                         |
| 05 05 23 00-0739 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 11.92                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0740 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.21                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0741 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 12.41                     |                         |
| For >100 To 250, Deduct  | -2.06                     |                         |
| For >250 To 500, Deduct  | -2.57                     |                         |
| For >500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0742 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 12.95                     |                         |
| For >100 To 250, Deduct  | -2.10                     |                         |
| For >250 To 500, Deduct  | -2.63                     |                         |
| For >500, Deduct   | -3.15                     |                         |
| 05 05 23 00-0743 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.38                     |                         |
| For >100 To 250, Deduct  | -2.10                     |                         |
| For >250 To 500, Deduct  | -2.63                     |                         |
| For >500, Deduct   | -3.15                     |                         |
| 05 05 23 00-0744 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.33                     |                         |
| For >100 To 250, Deduct  | -2.10                     |                         |
| For >250 To 500, Deduct  | -2.63                     |                         |
| For >500, Deduct   | -3.15                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0745 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 14.71                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0746 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.88                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0747 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 15.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-0748 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 15.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0749 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 16.11                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0750 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 17.09                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-0751 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 17.38                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0752 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 19.09                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0753 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 19.60                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-0754 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 20.54                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0755 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 21.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0756 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 23.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-0757 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 23.34                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| <br>   |                           |                         |
| <b>05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> |                           |                         |
| 05 05 23 00-0759 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.31                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0760 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 13.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0761 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 13.72                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-0762 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 14.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0763 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 16.07                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0764 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 16.92                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-0765 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 17.61                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0766 EA 3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 17.69                     |                         |
| For>100 To 250, Deduct   | -2.15                     |                         |
| For>250 To 500, Deduct   | -2.69                     |                         |
| For>500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0767 EA 3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 17.87                     |                         |
| For>100 To 250, Deduct   | -2.15                     |                         |
| For>250 To 500, Deduct   | -2.69                     |                         |
| For>500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0768 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 18.22                     |                         |
| For>100 To 250, Deduct   | -2.19                     |                         |
| For>250 To 500, Deduct   | -2.74                     |                         |
| For>500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0769 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 19.35                     |                         |
| For>100 To 250, Deduct   | -2.19                     |                         |
| For>250 To 500, Deduct   | -2.74                     |                         |
| For>500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0770 EA 3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 19.82                     |                         |
| For>100 To 250, Deduct   | -2.19                     |                         |
| For>250 To 500, Deduct   | -2.74                     |                         |
| For>500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0771 EA 3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 20.97                     |                         |
| For>100 To 250, Deduct   | -2.24                     |                         |
| For>250 To 500, Deduct   | -2.80                     |                         |
| For>500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0772 EA 3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 21.12                     |                         |
| For>100 To 250, Deduct   | -2.24                     |                         |
| For>250 To 500, Deduct   | -2.80                     |                         |
| For>500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0773 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 21.58                     |                         |
| For>100 To 250, Deduct   | -2.24                     |                         |
| For>250 To 500, Deduct   | -2.80                     |                         |
| For>500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0774 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 22.50                     |                         |
| For>100 To 250, Deduct   | -2.29                     |                         |
| For>250 To 500, Deduct   | -2.86                     |                         |
| For>500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0775 EA 3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 22.98                     |                         |
| For>100 To 250, Deduct   | -2.29                     |                         |
| For>250 To 500, Deduct   | -2.86                     |                         |
| For>500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0776 EA 3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 23.26                     |                         |
| For>100 To 250, Deduct   | -2.29                     |                         |
| For>250 To 500, Deduct   | -2.86                     |                         |
| For>500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0777 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                      | 23.40                     |                         |
| For>100 To 250, Deduct   | -2.29                     |                         |
| For>250 To 500, Deduct   | -2.86                     |                         |
| For>500, Deduct  | -3.43                     |                         |
| <b>05 05 23 00-0778 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> |                           |                         |
| 05 05 23 00-0779 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 17.22                     |                         |
| For>100 To 250, Deduct   | -2.29                     |                         |
| For>250 To 500, Deduct   | -2.86                     |                         |
| For>500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0780 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 17.76                     |                         |
| For>100 To 250, Deduct   | -2.29                     |                         |
| For>250 To 500, Deduct   | -2.86                     |                         |
| For>500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0781 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 18.30                     |                         |
| For>100 To 250, Deduct   | -2.33                     |                         |
| For>250 To 500, Deduct   | -2.92                     |                         |
| For>500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0782 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 21.15                     |                         |
| For>100 To 250, Deduct   | -2.33                     |                         |
| For>250 To 500, Deduct   | -2.92                     |                         |
| For>500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0783 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 21.58                     |                         |
| For>100 To 250, Deduct   | -2.33                     |                         |
| For>250 To 500, Deduct   | -2.92                     |                         |
| For>500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0784 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 22.36                     |                         |
| For>100 To 250, Deduct   | -2.38                     |                         |
| For>250 To 500, Deduct   | -2.97                     |                         |
| For>500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0785 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                   | 22.96                     |                         |
| For>100 To 250, Deduct   | -2.38                     |                         |
| For>250 To 500, Deduct   | -2.97                     |                         |
| For>500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0786 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....                       | 23.72                     |                         |
| For>100 To 250, Deduct   | -2.38                     |                         |
| For>250 To 500, Deduct   | -2.97                     |                         |
| For>500, Deduct  | -3.57                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0787 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 24.48                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.64                     |                         |
| 05 05 23 00-0788 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 25.08                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.64                     |                         |
| 05 05 23 00-0789 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 29.80                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.64                     |                         |
| 05 05 23 00-0790 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 30.67                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.70                     |                         |
| 05 05 23 00-0791 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 31.77                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.70                     |                         |
| 05 05 23 00-0792 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 32.03                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.70                     |                         |
| 05 05 23 00-0793 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 32.57                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| 05 05 23 00-0794 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 33.18                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| 05 05 23 00-0795 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 33.94                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |
| 05 05 23 00-0796 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 34.66                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.77                     |                         |

**05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts** (05 05 23 00-0654)

|  |       |  |
|--|-------|--|
| 05 05 23 00-0798 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 21.05 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86 |  |
| <i>For &gt;500, Deduct</i>   | -3.43 |  |
| 05 05 23 00-0799 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 21.44 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.33 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.92 |  |
| <i>For &gt;500, Deduct</i>   | -3.50 |  |
| 05 05 23 00-0800 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 22.47 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.33 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.92 |  |
| <i>For &gt;500, Deduct</i>   | -3.50 |  |
| 05 05 23 00-0801 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 23.28 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.33 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.92 |  |
| <i>For &gt;500, Deduct</i>   | -3.50 |  |
| 05 05 23 00-0802 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 25.35 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.38 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.97 |  |
| <i>For &gt;500, Deduct</i>   | -3.57 |  |
| 05 05 23 00-0803 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 25.77 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.38 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.97 |  |
| <i>For &gt;500, Deduct</i>   | -3.57 |  |
| 05 05 23 00-0804 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 26.96 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.38 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -2.97 |  |
| <i>For &gt;500, Deduct</i>   | -3.57 |  |
| 05 05 23 00-0805 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 27.31 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03 |  |
| <i>For &gt;500, Deduct</i>   | -3.64 |  |
| 05 05 23 00-0806 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 27.75 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03 |  |
| <i>For &gt;500, Deduct</i>   | -3.64 |  |
| 05 05 23 00-0807 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 31.80 |  |
| <i>For &gt;100 To 250, Deduct</i>  | -2.42 |  |
| <i>For &gt;250 To 500, Deduct</i>  | -3.03 |  |
| <i>For &gt;500, Deduct</i>   | -3.64 |  |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 05 05 23 00-0808 | EA  |     | 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 32.78                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.47                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.09                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.70                  |                      |
| 05 05 23 00-0809 | EA  |     | 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 34.47                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.47                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.09                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.70                  |                      |
| 05 05 23 00-0810 | EA  |     | 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 36.15                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.47                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.09                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.70                  |                      |
| 05 05 23 00-0811 | EA  |     | 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 36.89                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.51                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.14                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.77                  |                      |
| 05 05 23 00-0812 | EA  |     | 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....     | 38.24                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.51                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.14                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.77                  |                      |
| 05 05 23 00-0813 | EA  |     | 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... | 39.28                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.51                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.14                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.77                  |                      |
| 05 05 23 00-0814 | EA  |     | 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....    | 40.81                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.51                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -3.14                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -3.77                  |                      |
| 05 05 23 00-0815 |     |     | 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0097)</small>                       |                        |                      |
| 05 05 23 00-0816 |     |     | 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>        |                        |                      |
| 05 05 23 00-0817 | EA  |     | 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                        | 8.38                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-0818 | EA  |     | 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                          | 8.53                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-0819 | EA  |     | 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                      | 8.71                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-0820 | EA  |     | 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                          | 8.91                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-0821 | EA  |     | 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                      | 9.34                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.65                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.06                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.47                  |                      |
| 05 05 23 00-0822 | EA  |     | 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                          | 9.64                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.65                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.06                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.47                  |                      |
| 05 05 23 00-0823 | EA  |     | 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                      | 9.99                   |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.65                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.06                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.47                  |                      |
| 05 05 23 00-0824 | EA  |     | 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                          | 10.48                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.12                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.54                  |                      |
| 05 05 23 00-0825 | EA  |     | 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                      | 10.92                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.12                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.54                  |                      |
| 05 05 23 00-0826 | EA  |     | 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                          | 11.31                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.12                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.54                  |                      |
| 05 05 23 00-0827 | EA  |     | 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                      | 11.86                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |
| 05 05 23 00-0828 | EA  |     | 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                          | 12.52                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |
| 05 05 23 00-0829 | EA  |     | 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....                      | 20.37                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0830 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                       | 24.42                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-0831 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 24.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-0832 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                       | 25.67                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| <b>05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small> |                           |                         |
| 05 05 23 00-0834 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 8.65                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0835 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 8.78                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0836 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 9.06                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0837 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 9.29                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0838 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 9.93                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0839 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 10.08                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0840 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 10.81                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-0841 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 11.55                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0842 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 12.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0843 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 12.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-0844 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 14.26                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0845 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 16.31                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 20.98                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 28.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| <b>05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>  |                           |                         |
| 05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 9.00                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                       | 9.17                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0851 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 9.61                      |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0852 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 10.17                     |                         |
| For >100 To 250, Deduct   | -1.60                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0853 EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 10.69                     |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0854 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 11.14                     |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0855 EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 11.73                     |                         |
| For >100 To 250, Deduct   | -1.65                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0856 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 12.50                     |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0857 EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 13.19                     |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0858 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 14.73                     |                         |
| For >100 To 250, Deduct   | -1.69                     |                         |
| For >250 To 500, Deduct   | -2.12                     |                         |
| For >500, Deduct  | -2.54                     |                         |
| 05 05 23 00-0859 EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 15.14                     |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0860 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 16.41                     |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0861 EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 19.12                     |                         |
| For >100 To 250, Deduct   | -1.74                     |                         |
| For >250 To 500, Deduct   | -2.17                     |                         |
| For >500, Deduct  | -2.61                     |                         |
| 05 05 23 00-0862 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 19.97                     |                         |
| For >100 To 250, Deduct   | -1.78                     |                         |
| For >250 To 500, Deduct   | -2.23                     |                         |
| For >500, Deduct  | -2.67                     |                         |
| 05 05 23 00-0863 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 20.36                     |                         |
| For >100 To 250, Deduct   | -1.78                     |                         |
| For >250 To 500, Deduct   | -2.23                     |                         |
| For >500, Deduct  | -2.67                     |                         |
| 05 05 23 00-0864 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 23.06                     |                         |
| For >100 To 250, Deduct   | -1.78                     |                         |
| For >250 To 500, Deduct   | -2.23                     |                         |
| For >500, Deduct  | -2.67                     |                         |
| <b>05 05 23 00-0865 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)</b> |                           |                         |
| 05 05 23 00-0866 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 11.58                     |                         |
| For >100 To 250, Deduct   | -1.83                     |                         |
| For >250 To 500, Deduct   | -2.29                     |                         |
| For >500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0867 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 11.76                     |                         |
| For >100 To 250, Deduct   | -1.83                     |                         |
| For >250 To 500, Deduct   | -2.29                     |                         |
| For >500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0868 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 12.48                     |                         |
| For >100 To 250, Deduct   | -1.83                     |                         |
| For >250 To 500, Deduct   | -2.29                     |                         |
| For >500, Deduct  | -2.74                     |                         |
| 05 05 23 00-0869 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 13.14                     |                         |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 500, Deduct   | -2.34                     |                         |
| For >500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0870 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 14.00                     |                         |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 500, Deduct   | -2.34                     |                         |
| For >500, Deduct  | -2.81                     |                         |
| 05 05 23 00-0871 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 15.43                     |                         |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 500, Deduct   | -2.34                     |                         |
| For >500, Deduct  | -2.81                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0872 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 16.32                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0873 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 18.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0874 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 18.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0875 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 21.26                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0876 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 23.82                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0877 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 24.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0878 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 24.71                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |
| <br>   |                           |                         |
| 05 05 23 00-0879 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0875)</small> ..... | 11.56                     |                         |
| 05 05 23 00-0880 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 11.56                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0881 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                 | 11.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0882 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 12.89                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.74                     |                         |
| 05 05 23 00-0883 EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                 | 13.57                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0884 EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 14.59                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0885 EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                 | 15.15                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.81                     |                         |
| 05 05 23 00-0886 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 16.05                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0887 EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                 | 16.54                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0888 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 19.23                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.88                     |                         |
| 05 05 23 00-0889 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                 | 20.19                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0890 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 21.40                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0891 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                 | 22.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-0892 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 25.03                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.02                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0893 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 25.85                     |                         |
| For>100 To 250, Deduct  | -2.01                     |                         |
| For>250 To 500, Deduct  | -2.52                     |                         |
| For>500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0894 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 27.14                     |                         |
| For>100 To 250, Deduct  | -2.01                     |                         |
| For>250 To 500, Deduct  | -2.52                     |                         |
| For>500, Deduct   | -3.02                     |                         |
| 05 05 23 00-0895 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 33.68                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0896 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 34.19                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0897 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 37.76                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0898 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 41.30                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| <b>05 05 23 00-0899 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)</b> |                           |                         |
| 05 05 23 00-0900 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 17.46                     |                         |
| For>100 To 250, Deduct  | -1.83                     |                         |
| For>250 To 500, Deduct  | -2.29                     |                         |
| For>500, Deduct   | -2.74                     |                         |
| 05 05 23 00-0901 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 19.79                     |                         |
| For>100 To 250, Deduct  | -1.83                     |                         |
| For>250 To 500, Deduct  | -2.29                     |                         |
| For>500, Deduct   | -2.74                     |                         |
| 05 05 23 00-0902 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 23.89                     |                         |
| For>100 To 250, Deduct  | -1.83                     |                         |
| For>250 To 500, Deduct  | -2.29                     |                         |
| For>500, Deduct   | -2.74                     |                         |
| 05 05 23 00-0903 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 24.94                     |                         |
| For>100 To 250, Deduct  | -1.87                     |                         |
| For>250 To 500, Deduct  | -2.34                     |                         |
| For>500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0904 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 26.39                     |                         |
| For>100 To 250, Deduct  | -1.87                     |                         |
| For>250 To 500, Deduct  | -2.34                     |                         |
| For>500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0905 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 28.93                     |                         |
| For>100 To 250, Deduct  | -1.87                     |                         |
| For>250 To 500, Deduct  | -2.34                     |                         |
| For>500, Deduct   | -2.81                     |                         |
| 05 05 23 00-0906 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 32.89                     |                         |
| For>100 To 250, Deduct  | -1.92                     |                         |
| For>250 To 500, Deduct  | -2.40                     |                         |
| For>500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0907 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 33.46                     |                         |
| For>100 To 250, Deduct  | -1.92                     |                         |
| For>250 To 500, Deduct  | -2.40                     |                         |
| For>500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0908 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 38.83                     |                         |
| For>100 To 250, Deduct  | -1.92                     |                         |
| For>250 To 500, Deduct  | -2.40                     |                         |
| For>500, Deduct   | -2.88                     |                         |
| 05 05 23 00-0909 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....   | 41.58                     |                         |
| For>100 To 250, Deduct  | -1.97                     |                         |
| For>250 To 500, Deduct  | -2.46                     |                         |
| For>500, Deduct   | -2.95                     |                         |
| 05 05 23 00-0910 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....       | 44.45                     |                         |
| For>100 To 250, Deduct  | -1.97                     |                         |
| For>250 To 500, Deduct  | -2.46                     |                         |
| For>500, Deduct   | -2.95                     |                         |
| <b>05 05 23 00-0911 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)</b>  |                           |                         |
| 05 05 23 00-0912 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....        | 14.69                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |
| 05 05 23 00-0913 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....    | 15.23                     |                         |
| For>100 To 250, Deduct  | -2.06                     |                         |
| For>250 To 500, Deduct  | -2.57                     |                         |
| For>500, Deduct   | -3.09                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0914 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 17.46                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |
| 05 05 23 00-0915 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 18.05                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.15                     |                         |
| 05 05 23 00-0916 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 19.11                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.15                     |                         |
| 05 05 23 00-0917 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 20.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.15                     |                         |
| 05 05 23 00-0918 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 22.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.22                     |                         |
| 05 05 23 00-0919 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 22.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.22                     |                         |
| 05 05 23 00-0920 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 24.48                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.22                     |                         |
| 05 05 23 00-0921 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 25.68                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.29                     |                         |
| 05 05 23 00-0922 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 27.21                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.29                     |                         |
| 05 05 23 00-0923 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 32.83                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.29                     |                         |
| 05 05 23 00-0924 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 36.13                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.36                     |                         |
| 05 05 23 00-0925 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 38.67                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.36                     |                         |
| 05 05 23 00-0926 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 39.82                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.36                     |                         |
| 05 05 23 00-0927 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 44.74                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0928 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 46.23                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0929 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 52.91                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0930 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 55.65                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| <b>05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small> |                           |                         |
| 05 05 23 00-0932 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 17.13                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |
| 05 05 23 00-0933 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 18.18                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |
| 05 05 23 00-0934 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 19.55                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.09                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0935 EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 21.26                     |                         |
| For >100 To 250, Deduct   | -2.10                     |                         |
| For >250 To 500, Deduct   | -2.63                     |                         |
| For >500, Deduct  | -3.15                     |                         |
| 05 05 23 00-0936 EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 22.78                     |                         |
| For >100 To 250, Deduct   | -2.10                     |                         |
| For >250 To 500, Deduct   | -2.63                     |                         |
| For >500, Deduct  | -3.15                     |                         |
| 05 05 23 00-0937 EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 25.34                     |                         |
| For >100 To 250, Deduct   | -2.10                     |                         |
| For >250 To 500, Deduct   | -2.63                     |                         |
| For >500, Deduct  | -3.15                     |                         |
| 05 05 23 00-0938 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 27.09                     |                         |
| For >100 To 250, Deduct   | -2.15                     |                         |
| For >250 To 500, Deduct   | -2.69                     |                         |
| For >500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0939 EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 29.46                     |                         |
| For >100 To 250, Deduct   | -2.15                     |                         |
| For >250 To 500, Deduct   | -2.69                     |                         |
| For >500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0940 EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 31.37                     |                         |
| For >100 To 250, Deduct   | -2.15                     |                         |
| For >250 To 500, Deduct   | -2.69                     |                         |
| For >500, Deduct  | -3.22                     |                         |
| 05 05 23 00-0941 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 33.56                     |                         |
| For >100 To 250, Deduct   | -2.19                     |                         |
| For >250 To 500, Deduct   | -2.74                     |                         |
| For >500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0942 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 35.78                     |                         |
| For >100 To 250, Deduct   | -2.19                     |                         |
| For >250 To 500, Deduct   | -2.74                     |                         |
| For >500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0943 EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 39.93                     |                         |
| For >100 To 250, Deduct   | -2.19                     |                         |
| For >250 To 500, Deduct   | -2.74                     |                         |
| For >500, Deduct  | -3.29                     |                         |
| 05 05 23 00-0944 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 51.20                     |                         |
| For >100 To 250, Deduct   | -2.24                     |                         |
| For >250 To 500, Deduct   | -2.80                     |                         |
| For >500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0945 EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 54.73                     |                         |
| For >100 To 250, Deduct   | -2.24                     |                         |
| For >250 To 500, Deduct   | -2.80                     |                         |
| For >500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0946 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 62.26                     |                         |
| For >100 To 250, Deduct   | -2.24                     |                         |
| For >250 To 500, Deduct   | -2.80                     |                         |
| For >500, Deduct  | -3.36                     |                         |
| 05 05 23 00-0947 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 62.84                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0948 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 64.03                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0949 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 67.25                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0950 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                     | 69.73                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| <b>05 05 23 00-0951 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small> |                           |                         |
| 05 05 23 00-0952 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 24.83                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0953 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 27.43                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-0954 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 29.64                     |                         |
| For >100 To 250, Deduct   | -2.33                     |                         |
| For >250 To 500, Deduct   | -2.92                     |                         |
| For >500, Deduct  | -3.50                     |                         |
| 05 05 23 00-0955 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 32.29                     |                         |
| For >100 To 250, Deduct   | -2.33                     |                         |
| For >250 To 500, Deduct   | -2.92                     |                         |
| For >500, Deduct  | -3.50                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-0956 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 33.15                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.50                     |                         |
| 05 05 23 00-0957 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 35.55                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.57                     |                         |
| 05 05 23 00-0958 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 36.39                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.57                     |                         |
| 05 05 23 00-0959 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 42.14                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.57                     |                         |
| 05 05 23 00-0960 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 43.23                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.64                     |                         |
| 05 05 23 00-0961 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 45.45                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.64                     |                         |
| 05 05 23 00-0962 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 57.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.42                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.03                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.64                     |                         |
| 05 05 23 00-0963 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 62.52                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.70                     |                         |
| 05 05 23 00-0964 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 67.99                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.70                     |                         |
| 05 05 23 00-0965 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 72.40                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.09                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.70                     |                         |
| 05 05 23 00-0966 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 86.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.77                     |                         |
| 05 05 23 00-0967 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                    | 96.72                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.77                     |                         |
| 05 05 23 00-0968 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                | 101.67                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.77                     |                         |
| 05 05 23 00-0969 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 106.61                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.51                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.77                     |                         |
| <b>05 05 23 00-0970 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small> |                           |                         |
| 05 05 23 00-0971 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 31.13                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0972 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 33.04                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.43                     |                         |
| 05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 36.10                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.50                     |                         |
| 05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 38.49                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.50                     |                         |
| 05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 42.43                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.33                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.92                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.50                     |                         |
| 05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                      | 47.08                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.38                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.97                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.57                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0977 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....               | 49.83                     |                         |
| For>100 To 250, Deduct   | -2.38                     |                         |
| For>250 To 500, Deduct   | -2.97                     |                         |
| For>500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0978 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 53.88                     |                         |
| For>100 To 250, Deduct   | -2.38                     |                         |
| For>250 To 500, Deduct   | -2.97                     |                         |
| For>500, Deduct  | -3.57                     |                         |
| 05 05 23 00-0979 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....               | 57.92                     |                         |
| For>100 To 250, Deduct   | -2.42                     |                         |
| For>250 To 500, Deduct   | -3.03                     |                         |
| For>500, Deduct  | -3.64                     |                         |
| 05 05 23 00-0980 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 58.15                     |                         |
| For>100 To 250, Deduct   | -2.42                     |                         |
| For>250 To 500, Deduct   | -3.03                     |                         |
| For>500, Deduct  | -3.64                     |                         |
| 05 05 23 00-0981 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....               | 69.02                     |                         |
| For>100 To 250, Deduct   | -2.42                     |                         |
| For>250 To 500, Deduct   | -3.03                     |                         |
| For>500, Deduct  | -3.64                     |                         |
| 05 05 23 00-0982 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 83.01                     |                         |
| For>100 To 250, Deduct   | -2.47                     |                         |
| For>250 To 500, Deduct   | -3.09                     |                         |
| For>500, Deduct  | -3.70                     |                         |
| 05 05 23 00-0983 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....               | 85.06                     |                         |
| For>100 To 250, Deduct   | -2.47                     |                         |
| For>250 To 500, Deduct   | -3.09                     |                         |
| For>500, Deduct  | -3.70                     |                         |
| 05 05 23 00-0984 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 87.10                     |                         |
| For>100 To 250, Deduct   | -2.47                     |                         |
| For>250 To 500, Deduct   | -3.09                     |                         |
| For>500, Deduct  | -3.70                     |                         |
| 05 05 23 00-0985 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....               | 91.43                     |                         |
| For>100 To 250, Deduct   | -2.51                     |                         |
| For>250 To 500, Deduct   | -3.14                     |                         |
| For>500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0986 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                   | 97.72                     |                         |
| For>100 To 250, Deduct   | -2.51                     |                         |
| For>250 To 500, Deduct   | -3.14                     |                         |
| For>500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0987 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....               | 126.25                    |                         |
| For>100 To 250, Deduct   | -2.51                     |                         |
| For>250 To 500, Deduct   | -3.14                     |                         |
| For>500, Deduct  | -3.77                     |                         |
| 05 05 23 00-0988 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....                  | 159.50                    |                         |
| For>100 To 250, Deduct   | -2.51                     |                         |
| For>250 To 500, Deduct   | -3.14                     |                         |
| For>500, Deduct  | -3.77                     |                         |
| <b>05 05 23 00-0989 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0987)</small>                |                           |                         |
| <b>05 05 23 00-0990 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small> |                           |                         |
| 05 05 23 00-0991 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                    | 8.66                      |                         |
| For>100 To 250, Deduct   | -1.60                     |                         |
| For>250 To 500, Deduct   | -2.00                     |                         |
| For>500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0992 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                      | 8.96                      |                         |
| For>100 To 250, Deduct   | -1.60                     |                         |
| For>250 To 500, Deduct   | -2.00                     |                         |
| For>500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0993 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                  | 9.18                      |                         |
| For>100 To 250, Deduct   | -1.60                     |                         |
| For>250 To 500, Deduct   | -2.00                     |                         |
| For>500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0994 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                      | 9.33                      |                         |
| For>100 To 250, Deduct   | -1.60                     |                         |
| For>250 To 500, Deduct   | -2.00                     |                         |
| For>500, Deduct  | -2.40                     |                         |
| 05 05 23 00-0995 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                  | 9.99                      |                         |
| For>100 To 250, Deduct   | -1.65                     |                         |
| For>250 To 500, Deduct   | -2.06                     |                         |
| For>500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0996 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                      | 10.38                     |                         |
| For>100 To 250, Deduct   | -1.65                     |                         |
| For>250 To 500, Deduct   | -2.06                     |                         |
| For>500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0997 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                  | 10.77                     |                         |
| For>100 To 250, Deduct   | -1.65                     |                         |
| For>250 To 500, Deduct   | -2.06                     |                         |
| For>500, Deduct  | -2.47                     |                         |
| 05 05 23 00-0998 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....                      | 11.31                     |                         |
| For>100 To 250, Deduct   | -1.69                     |                         |
| For>250 To 500, Deduct   | -2.12                     |                         |
| For>500, Deduct  | -2.54                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-0999 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....    | 11.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-1000 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....        | 11.78                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-1001 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....    | 13.01                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-1002 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....        | 13.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-1003 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....    | 23.27                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-1004 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....        | 35.60                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-1005 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....    | 62.27                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| 05 05 23 00-1006 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....        | 68.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.78                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.23                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.67                     |                         |
| <b>05 05 23 00-1007 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)</b> |                           |                         |
| 05 05 23 00-1008 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt .....     | 9.07                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-1009 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....       | 9.41                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-1010 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 9.98                      |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-1011 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....       | 10.42                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.60                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.00                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.40                     |                         |
| 05 05 23 00-1012 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 10.83                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-1013 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....       | 11.71                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-1014 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 12.33                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.47                     |                         |
| 05 05 23 00-1015 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....       | 12.82                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-1016 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 14.13                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-1017 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....       | 14.40                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.12                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 05 23 00-1018 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 15.55                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |
| 05 05 23 00-1019 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....       | 16.58                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.17                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.61                     |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 05 23 00-1020        | EA  |     | 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                     | 25.08                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |
| 05 05 23 00-1021        | EA  |     | 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....                         | 37.38                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.67                  |                      |
| <b>05 05 23 00-1022</b> |     |     | <b>3/8" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small>  |                        |                      |
| 05 05 23 00-1023        | EA  |     | 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                        | 9.97                   |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-1024        | EA  |     | 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 10.11                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-1025        | EA  |     | 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 10.64                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-1026        | EA  |     | 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 11.91                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.60                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.00                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.40                  |                      |
| 05 05 23 00-1027        | EA  |     | 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 12.59                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.65                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.06                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.47                  |                      |
| 05 05 23 00-1028        | EA  |     | 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 12.82                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.65                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.06                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.47                  |                      |
| 05 05 23 00-1029        | EA  |     | 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 13.92                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.65                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.06                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.47                  |                      |
| 05 05 23 00-1030        | EA  |     | 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 14.32                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.54                  |                      |
| 05 05 23 00-1031        | EA  |     | 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 15.01                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.54                  |                      |
| 05 05 23 00-1032        | EA  |     | 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 15.49                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.54                  |                      |
| 05 05 23 00-1033        | EA  |     | 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 17.25                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |
| 05 05 23 00-1034        | EA  |     | 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 19.12                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |
| 05 05 23 00-1035        | EA  |     | 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 19.20                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.74                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.61                  |                      |
| 05 05 23 00-1036        | EA  |     | 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 24.15                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.67                  |                      |
| 05 05 23 00-1037        | EA  |     | 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 31.85                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.67                  |                      |
| 05 05 23 00-1038        | EA  |     | 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....                          | 40.17                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.78                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.23                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.67                  |                      |
| <b>05 05 23 00-1039</b> |     |     | <b>7/16" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small> |                        |                      |
| 05 05 23 00-1040        | EA  |     | 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....                         | 13.24                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -1.83                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -2.29                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.74                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1041 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....        | 14.04                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-1042 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....            | 15.53                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-1043 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....        | 17.05                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-1044 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....            | 18.49                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-1045 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....        | 20.84                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-1046 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....            | 23.32                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-1047 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....        | 23.73                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-1048 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....            | 24.59                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-1049 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....        | 24.50                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.95                     |                         |
| 05 05 23 00-1050 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....            | 26.01                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.95                     |                         |
| 05 05 23 00-1051 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....        | 26.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.95                     |                         |
| 05 05 23 00-1052 EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....            | 27.35                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -2.01                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.52                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.02                     |                         |
| <b>05 05 23 00-1053 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)</b> ..... | <b>13.20</b>              |                         |
| 05 05 23 00-1054 EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....             | 13.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-1055 EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 14.06                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-1056 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....             | 15.26                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.83                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.29                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.74                     |                         |
| 05 05 23 00-1057 EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 16.93                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-1058 EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....             | 18.26                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-1059 EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 18.59                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.87                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.81                     |                         |
| 05 05 23 00-1060 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....             | 19.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |
| 05 05 23 00-1061 EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 21.93                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.40                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.88                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-1062 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....        | 27.13                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-1063 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....    | 27.75                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-1064 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....        | 28.57                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-1065 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....    | 35.00                     |                         |
| For>100 To 250, Deduct   | -1.97                     |                         |
| For>250 To 500, Deduct   | -2.46                     |                         |
| For>500, Deduct  | -2.95                     |                         |
| 05 05 23 00-1066 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....        | 39.54                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-1067 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....    | 42.32                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-1068 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....        | 46.93                     |                         |
| For>100 To 250, Deduct   | -2.01                     |                         |
| For>250 To 500, Deduct   | -2.52                     |                         |
| For>500, Deduct  | -3.02                     |                         |
| 05 05 23 00-1069 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....    | 59.35                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-1070 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt .....        | 67.21                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-1071 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....    | 68.50                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| 05 05 23 00-1072 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt .....       | 70.51                     |                         |
| For>100 To 250, Deduct   | -2.06                     |                         |
| For>250 To 500, Deduct   | -2.57                     |                         |
| For>500, Deduct  | -3.09                     |                         |
| <b>05 05 23 00-1073 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)</b> |                           |                         |
| 05 05 23 00-1074 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....       | 34.74                     |                         |
| For>100 To 250, Deduct   | -1.83                     |                         |
| For>250 To 500, Deduct   | -2.29                     |                         |
| For>500, Deduct  | -2.74                     |                         |
| 05 05 23 00-1075 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 37.57                     |                         |
| For>100 To 250, Deduct   | -1.83                     |                         |
| For>250 To 500, Deduct   | -2.29                     |                         |
| For>500, Deduct  | -2.74                     |                         |
| 05 05 23 00-1076 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....       | 47.03                     |                         |
| For>100 To 250, Deduct   | -1.83                     |                         |
| For>250 To 500, Deduct   | -2.29                     |                         |
| For>500, Deduct  | -2.74                     |                         |
| 05 05 23 00-1077 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 52.57                     |                         |
| For>100 To 250, Deduct   | -1.87                     |                         |
| For>250 To 500, Deduct   | -2.34                     |                         |
| For>500, Deduct  | -2.81                     |                         |
| 05 05 23 00-1078 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....       | 58.16                     |                         |
| For>100 To 250, Deduct   | -1.87                     |                         |
| For>250 To 500, Deduct   | -2.34                     |                         |
| For>500, Deduct  | -2.81                     |                         |
| 05 05 23 00-1079 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 63.75                     |                         |
| For>100 To 250, Deduct   | -1.87                     |                         |
| For>250 To 500, Deduct   | -2.34                     |                         |
| For>500, Deduct  | -2.81                     |                         |
| 05 05 23 00-1080 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....       | 67.47                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-1081 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....   | 72.07                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |
| 05 05 23 00-1082 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....       | 76.17                     |                         |
| For>100 To 250, Deduct   | -1.92                     |                         |
| For>250 To 500, Deduct   | -2.40                     |                         |
| For>500, Deduct  | -2.88                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-1083 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                 | 77.63                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| 05 05 23 00-1084 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....                     | 81.23                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -1.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.46                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.95                     |                         |
| <b>05 05 23 00-1085 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small> |                           |                         |
| 05 05 23 00-1086 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 18.73                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-1087 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 18.97                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-1088 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 19.06                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.06                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.09                     |                         |
| 05 05 23 00-1089 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 20.89                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-1090 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 22.55                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-1091 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 27.82                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.10                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.15                     |                         |
| 05 05 23 00-1092 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 29.15                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-1093 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 33.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-1094 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 35.36                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.15                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.69                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 05 23 00-1095 EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 38.62                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-1096 EA 5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 39.93                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-1097 EA 5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 48.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.19                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.29                     |                         |
| 05 05 23 00-1098 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 51.14                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-1099 EA 5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 52.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-1100 EA 5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 55.94                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.24                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.36                     |                         |
| 05 05 23 00-1101 EA 5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 59.57                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-1102 EA 5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt .....                      | 62.76                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |
| 05 05 23 00-1103 EA 5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....                  | 78.00                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -2.29                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -2.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.43                     |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1104 EA 5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt .....            | 94.28                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| <b>05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)</b> ..... |                           |                         |
| 05 05 23 00-1106 EA 3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....             | 25.14                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| 05 05 23 00-1107 EA 3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 25.71                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| 05 05 23 00-1108 EA 3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....             | 27.91                     |                         |
| For >100 To 250, Deduct   | -2.06                     |                         |
| For >250 To 500, Deduct   | -2.57                     |                         |
| For >500, Deduct  | -3.09                     |                         |
| 05 05 23 00-1109 EA 3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 30.05                     |                         |
| For >100 To 250, Deduct   | -2.10                     |                         |
| For >250 To 500, Deduct   | -2.63                     |                         |
| For >500, Deduct  | -3.15                     |                         |
| 05 05 23 00-1110 EA 3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....             | 34.15                     |                         |
| For >100 To 250, Deduct   | -2.10                     |                         |
| For >250 To 500, Deduct   | -2.63                     |                         |
| For >500, Deduct  | -3.15                     |                         |
| 05 05 23 00-1111 EA 3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 36.52                     |                         |
| For >100 To 250, Deduct   | -2.10                     |                         |
| For >250 To 500, Deduct   | -2.63                     |                         |
| For >500, Deduct  | -3.15                     |                         |
| 05 05 23 00-1112 EA 3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....             | 41.81                     |                         |
| For >100 To 250, Deduct   | -2.15                     |                         |
| For >250 To 500, Deduct   | -2.69                     |                         |
| For >500, Deduct  | -3.22                     |                         |
| 05 05 23 00-1113 EA 3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 43.90                     |                         |
| For >100 To 250, Deduct   | -2.15                     |                         |
| For >250 To 500, Deduct   | -2.69                     |                         |
| For >500, Deduct  | -3.22                     |                         |
| 05 05 23 00-1114 EA 3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....             | 45.05                     |                         |
| For >100 To 250, Deduct   | -2.15                     |                         |
| For >250 To 500, Deduct   | -2.69                     |                         |
| For >500, Deduct  | -3.22                     |                         |
| 05 05 23 00-1115 EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 46.82                     |                         |
| For >100 To 250, Deduct   | -2.19                     |                         |
| For >250 To 500, Deduct   | -2.74                     |                         |
| For >500, Deduct  | -3.29                     |                         |
| 05 05 23 00-1116 EA 3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....             | 49.44                     |                         |
| For >100 To 250, Deduct   | -2.19                     |                         |
| For >250 To 500, Deduct   | -2.74                     |                         |
| For >500, Deduct  | -3.29                     |                         |
| 05 05 23 00-1117 EA 3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 57.51                     |                         |
| For >100 To 250, Deduct   | -2.19                     |                         |
| For >250 To 500, Deduct   | -2.74                     |                         |
| For >500, Deduct  | -3.29                     |                         |
| 05 05 23 00-1118 EA 3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....             | 69.41                     |                         |
| For >100 To 250, Deduct   | -2.24                     |                         |
| For >250 To 500, Deduct   | -2.80                     |                         |
| For >500, Deduct  | -3.36                     |                         |
| 05 05 23 00-1119 EA 3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 78.51                     |                         |
| For >100 To 250, Deduct   | -2.24                     |                         |
| For >250 To 500, Deduct   | -2.80                     |                         |
| For >500, Deduct  | -3.36                     |                         |
| 05 05 23 00-1120 EA 3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....             | 79.88                     |                         |
| For >100 To 250, Deduct   | -2.24                     |                         |
| For >250 To 500, Deduct   | -2.80                     |                         |
| For >500, Deduct  | -3.36                     |                         |
| 05 05 23 00-1121 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 85.58                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-1122 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt .....             | 99.36                     |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-1123 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....         | 100.53                    |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |
| 05 05 23 00-1124 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt .....            | 103.44                    |                         |
| For >100 To 250, Deduct   | -2.29                     |                         |
| For >250 To 500, Deduct   | -2.86                     |                         |
| For >500, Deduct  | -3.43                     |                         |



|  | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|------------------|-----|-----|--|------------------------|----------------------|
|  | 05 05 23 00-1125 |     |     | <b>7/8" Diameter, 316 Stainless Steel, Hex Head Bolts</b> (05 05 23 00-0989)   |                        |                      |
|  | 05 05 23 00-1126 | EA  |     | 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 28.37  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.29                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.86                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.43                  |                      |
|  | 05 05 23 00-1127 | EA  |     | 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt ..... 32.16      |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.29                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.86                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.43                  |                      |
|  | 05 05 23 00-1128 | EA  |     | 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 34.46  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.33                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.92                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.50                  |                      |
|  | 05 05 23 00-1129 | EA  |     | 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt ..... 39.76      |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.33                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.92                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.50                  |                      |
|  | 05 05 23 00-1130 | EA  |     | 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 42.14  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.33                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.92                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.50                  |                      |
|  | 05 05 23 00-1131 | EA  |     | 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt ..... 44.46      |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.38                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.97                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.57                  |                      |
|  | 05 05 23 00-1132 | EA  |     | 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 47.67  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.38                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.97                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.57                  |                      |
|  | 05 05 23 00-1133 | EA  |     | 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt ..... 54.90      |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.38                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.97                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.57                  |                      |
|  | 05 05 23 00-1134 | EA  |     | 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 55.32  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.42                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.03                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.64                  |                      |
|  | 05 05 23 00-1135 | EA  |     | 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt ..... 57.72      |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.42                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.03                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.64                  |                      |
|  | 05 05 23 00-1136 | EA  |     | 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 77.95  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.42                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.03                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.64                  |                      |
|  | 05 05 23 00-1137 | EA  |     | 7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt ..... 87.10      |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.47                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.09                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.70                  |                      |
|  | 05 05 23 00-1138 | EA  |     | 7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 96.71  |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.47                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.09                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.70                  |                      |
|  | 05 05 23 00-1139 | EA  |     | 7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt ..... 101.44     |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.47                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.09                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.70                  |                      |
|  | 05 05 23 00-1140 | EA  |     | 7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 107.82 |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.51                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.14                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.77                  |                      |
|  | 05 05 23 00-1141 | EA  |     | 7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt ..... 111.93     |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.51                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.14                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.77                  |                      |
|  | 05 05 23 00-1142 | EA  |     | 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 116.01 |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.51                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.14                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.77                  |                      |
|  | 05 05 23 00-1143 | EA  |     | 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt ..... 120.60    |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.51                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -3.14                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.77                  |                      |
|  | 05 05 23 00-1144 |     |     | <b>1" Diameter, 316 Stainless Steel, Hex Head Bolts</b> (05 05 23 00-0989)     |                        |                      |
|  | 05 05 23 00-1145 | EA  |     | 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt ..... 36.71        |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.29                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.86                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.43                  |                      |
|  | 05 05 23 00-1146 | EA  |     | 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... 42.77    |                        |                      |
|  |                  |     |     | For >100 To 250, Deduct  | -2.33                  |                      |
|  |                  |     |     | For >250 To 500, Deduct  | -2.92                  |                      |
|  |                  |     |     | For >500, Deduct   | -3.50                  |                      |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1147 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....     | 46.69                     |                         |
| For>100 To 250, Deduct  | -2.33                     |                         |
| For>250 To 500, Deduct  | -2.92                     |                         |
| For>500, Deduct   | -3.50                     |                         |
| 05 05 23 00-1148 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 52.93                     |                         |
| For>100 To 250, Deduct  | -2.33                     |                         |
| For>250 To 500, Deduct  | -2.92                     |                         |
| For>500, Deduct   | -3.50                     |                         |
| 05 05 23 00-1149 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....     | 55.40                     |                         |
| For>100 To 250, Deduct  | -2.38                     |                         |
| For>250 To 500, Deduct  | -2.97                     |                         |
| For>500, Deduct   | -3.57                     |                         |
| 05 05 23 00-1150 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 59.64                     |                         |
| For>100 To 250, Deduct  | -2.38                     |                         |
| For>250 To 500, Deduct  | -2.97                     |                         |
| For>500, Deduct   | -3.57                     |                         |
| 05 05 23 00-1151 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....     | 63.92                     |                         |
| For>100 To 250, Deduct  | -2.38                     |                         |
| For>250 To 500, Deduct  | -2.97                     |                         |
| For>500, Deduct   | -3.57                     |                         |
| 05 05 23 00-1152 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 68.45                     |                         |
| For>100 To 250, Deduct  | -2.42                     |                         |
| For>250 To 500, Deduct  | -3.03                     |                         |
| For>500, Deduct   | -3.64                     |                         |
| 05 05 23 00-1153 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....     | 79.51                     |                         |
| For>100 To 250, Deduct  | -2.42                     |                         |
| For>250 To 500, Deduct  | -3.03                     |                         |
| For>500, Deduct   | -3.64                     |                         |
| 05 05 23 00-1154 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 90.41                     |                         |
| For>100 To 250, Deduct  | -2.42                     |                         |
| For>250 To 500, Deduct  | -3.03                     |                         |
| For>500, Deduct   | -3.64                     |                         |
| 05 05 23 00-1155 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....     | 105.54                    |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-1156 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 118.07                    |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-1157 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....     | 119.88                    |                         |
| For>100 To 250, Deduct  | -2.47                     |                         |
| For>250 To 500, Deduct  | -3.09                     |                         |
| For>500, Deduct   | -3.70                     |                         |
| 05 05 23 00-1158 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 124.20                    |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| 05 05 23 00-1159 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt .....     | 125.92                    |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| 05 05 23 00-1160 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt ..... | 146.74                    |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| 05 05 23 00-1161 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt .....    | 166.83                    |                         |
| For>100 To 250, Deduct  | -2.51                     |                         |
| For>250 To 500, Deduct  | -3.14                     |                         |
| For>500, Deduct   | -3.77                     |                         |
| <b>05 05 23 00-1162 Screws (05 05 23)</b>   |                           |                         |
| <b>05 05 23 00-1163 Teks® 5 Self Drilling Screws (05 05 23 00-1162)</b>                   |                           |                         |
| Note: Includes Climaseal® finish, self-drill point and tapping threads.                   |                           |                         |
| 05 05 23 00-1164 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw .....    | 4.33                      |                         |
| For>10 To 50, Deduct  | -0.19                     |                         |
| For>50 To 100, Deduct   | -0.39                     |                         |
| For>100, Deduct   | -0.79                     |                         |
| 05 05 23 00-1165 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw .....    | 4.51                      |                         |
| For>10 To 50, Deduct  | -0.19                     |                         |
| For>50 To 100, Deduct   | -0.40                     |                         |
| For>100, Deduct   | -0.80                     |                         |
| 05 05 23 00-1166 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw .....        | 5.03                      |                         |
| For>10 To 50, Deduct  | -0.20                     |                         |
| For>50 To 100, Deduct   | -0.43                     |                         |
| For>100, Deduct   | -0.86                     |                         |
| 05 05 23 00-1167 EA 1/4" x 3", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw ..... | 6.92                      |                         |
| For>10 To 50, Deduct  | -0.25                     |                         |
| For>50 To 100, Deduct   | -0.55                     |                         |
| For>100, Deduct   | -1.11                     |                         |
| 05 05 23 00-1168 EA 1/4" x 4", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw ..... | 7.39                      |                         |
| For>10 To 50, Deduct  | -0.27                     |                         |
| For>50 To 100, Deduct   | -0.58                     |                         |
| For>100, Deduct   | -1.17                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1169 EA 1/4" x 6", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw .....                           | 9.15                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.28                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.65                     |                         |
| <i>For &gt;100, Deduct</i>  | -1.30                     |                         |
| 05 05 23 00-1170 EA 1/4" x 8", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw .....                           | 10.22                     |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.29                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.69                     |                         |
| <i>For &gt;100, Deduct</i>  | -1.39                     |                         |
| <b>05 05 23 00-1171 Security Screws</b> <small>(05 05 23 00-1162)</small>   |                           |                         |
| <b>05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws</b> <small>(05 05 23 00-1171)</small>                 |                           |                         |
| <i>Note: Includes "security" style drive in machine or sheet metal screw threads.</i>                               |                           |                         |
| 05 05 23 00-1173 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws .....                      | 3.42                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.33                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.65                     |                         |
| 05 05 23 00-1174 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                       | 4.01                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.34                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.68                     |                         |
| 05 05 23 00-1175 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....                         | 4.51                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.71                     |                         |
| 05 05 23 00-1176 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                     | 4.69                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.36                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.71                     |                         |
| 05 05 23 00-1177 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....                         | 5.01                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.37                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.73                     |                         |
| 05 05 23 00-1178 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                       | 4.14                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.34                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.69                     |                         |
| 05 05 23 00-1179 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....                         | 4.38                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.70                     |                         |
| 05 05 23 00-1180 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                     | 4.88                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.36                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.72                     |                         |
| 05 05 23 00-1181 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....                         | 5.04                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.37                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.73                     |                         |
| 05 05 23 00-1182 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                      | 4.29                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.69                     |                         |
| 05 05 23 00-1183 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....                        | 4.36                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.70                     |                         |
| 05 05 23 00-1184 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                    | 4.58                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.71                     |                         |
| 05 05 23 00-1185 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....                        | 5.25                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.37                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.74                     |                         |
| 05 05 23 00-1186 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                     | 4.69                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.36                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.71                     |                         |
| 05 05 23 00-1187 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw .....                       | 4.84                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.36                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.72                     |                         |
| 05 05 23 00-1188 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....                   | 5.49                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.75                     |                         |
| 05 05 23 00-1189 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw .....                       | 6.52                      |                         |
| <i>For &gt;10 To 50, Deduct</i>   | -0.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.40                     |                         |
| <i>For &gt;100, Deduct</i>  | -0.81                     |                         |
| <b>05 05 23 00-1190 Threaded Rod</b> <small>(05 05 23)</small>  |                           |                         |
| <i>Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and</i> |                           |                         |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| washers.  |                           |                         |
| <b>05 05 23 00-1191 Plain Finish Steel, Low Carbon Threaded Rod</b> (05 05 23 00-1190)          |                           |                         |
| 05 05 23 00-1192 LF 1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....            | 2.61                      | 0.56                    |
| For Left Hand Threaded Rod, Add .....   | 0.15                      |                         |
| 05 05 23 00-1193 LF 5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....           | 3.48                      | 0.62                    |
| For Left Hand Threaded Rod, Add .....   | 0.22                      |                         |
| 05 05 23 00-1194 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....            | 4.04                      | 0.72                    |
| For Left Hand Threaded Rod, Add .....   | 0.26                      |                         |
| 05 05 23 00-1195 LF 7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....           | 5.55                      | 0.73                    |
| For Left Hand Threaded Rod, Add .....   | 0.41                      |                         |
| 05 05 23 00-1196 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....            | 5.69                      | 0.76                    |
| For Left Hand Threaded Rod, Add .....   | 0.42                      |                         |
| 05 05 23 00-1197 LF 9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....           | 7.12                      | 0.77                    |
| For Left Hand Threaded Rod, Add .....   | 0.56                      |                         |
| 05 05 23 00-1198 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....            | 8.05                      | 0.78                    |
| For Left Hand Threaded Rod, Add .....   | 0.65                      |                         |
| 05 05 23 00-1199 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....            | 13.39                     | 0.81                    |
| For Left Hand Threaded Rod, Add .....   | 1.18                      |                         |
| 05 05 23 00-1200 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....            | 14.62                     | 0.83                    |
| For Left Hand Threaded Rod, Add .....   | 1.30                      |                         |
| 05 05 23 00-1201 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....              | 20.08                     | 0.94                    |
| For Left Hand Threaded Rod, Add .....   | 1.82                      |                         |
| 05 05 23 00-1202 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....          | 25.04                     | 1.05                    |
| For Left Hand Threaded Rod, Add .....   | 2.30                      |                         |
| 05 05 23 00-1203 LF 1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....          | 33.31                     | 1.13                    |
| For Left Hand Threaded Rod, Add .....   | 3.10                      |                         |
| 05 05 23 00-1204 LF 1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....          | 41.54                     | 1.23                    |
| For Left Hand Threaded Rod, Add .....   | 3.91                      |                         |
| 05 05 23 00-1205 LF 1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....          | 49.77                     | 1.28                    |
| For Left Hand Threaded Rod, Add .....   | 4.72                      |                         |
| 05 05 23 00-1206 LF 1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....          | 61.13                     | 1.34                    |
| For Left Hand Threaded Rod, Add .....   | 5.84                      |                         |
| 05 05 23 00-1207 LF 2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....              | 78.21                     | 1.41                    |
| For Left Hand Threaded Rod, Add .....   | 7.54                      |                         |
| <b>05 05 23 00-1208 Zinc Plated Steel, Low Carbon Threaded Rod</b> (05 05 23 00-1190)           |                           |                         |
| 05 05 23 00-1209 LF 1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....             | 2.63                      | 0.56                    |
| For Left Hand Threaded Rod, Add .....   | 0.15                      |                         |
| 05 05 23 00-1210 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....            | 3.97                      | 0.62                    |
| For Left Hand Threaded Rod, Add .....   | 0.27                      |                         |
| 05 05 23 00-1211 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....             | 4.41                      | 0.72                    |
| For Left Hand Threaded Rod, Add .....   | 0.30                      |                         |
| 05 05 23 00-1212 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....            | 6.47                      | 0.73                    |
| For Left Hand Threaded Rod, Add .....   | 0.50                      |                         |
| 05 05 23 00-1213 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....             | 6.99                      | 0.76                    |
| For Left Hand Threaded Rod, Add .....   | 0.55                      |                         |
| 05 05 23 00-1214 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....            | 9.24                      | 0.77                    |
| For Left Hand Threaded Rod, Add .....   | 0.77                      |                         |
| 05 05 23 00-1215 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....             | 9.83                      | 0.78                    |
| For Left Hand Threaded Rod, Add .....   | 0.83                      |                         |
| 05 05 23 00-1216 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....             | 14.92                     | 0.81                    |
| For Left Hand Threaded Rod, Add .....   | 1.33                      |                         |
| 05 05 23 00-1217 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....             | 19.41                     | 0.83                    |
| For Left Hand Threaded Rod, Add .....   | 1.78                      |                         |
| 05 05 23 00-1218 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....               | 26.11                     | 0.94                    |
| For Left Hand Threaded Rod, Add .....   | 2.42                      |                         |
| 05 05 23 00-1219 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....           | 33.77                     | 1.05                    |
| For Left Hand Threaded Rod, Add .....   | 3.17                      |                         |
| 05 05 23 00-1220 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....           | 40.33                     | 1.13                    |
| For Left Hand Threaded Rod, Add .....   | 3.80                      |                         |
| 05 05 23 00-1221 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....           | 45.89                     | 1.23                    |
| For Left Hand Threaded Rod, Add .....   | 4.34                      |                         |
| 05 05 23 00-1222 LF 1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....           | 57.90                     | 1.28                    |
| For Left Hand Threaded Rod, Add .....   | 5.53                      |                         |
| 05 05 23 00-1223 LF 1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....           | 71.84                     | 1.34                    |
| For Left Hand Threaded Rod, Add .....   | 6.92                      |                         |
| 05 05 23 00-1224 LF 2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod .....               | 105.05                    | 1.41                    |
| For Left Hand Threaded Rod, Add .....   | 10.22                     |                         |
| <b>05 05 23 00-1225 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod</b> (05 05 23 00-1190) |                           |                         |
| 05 05 23 00-1226 LF 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod .....   | 7.46                      | 0.72                    |
| For Left Hand Threaded Rod, Add .....   | 0.61                      |                         |
| 05 05 23 00-1227 LF 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod .....   | 10.53                     | 0.76                    |
| For Left Hand Threaded Rod, Add .....   | 0.90                      |                         |
| 05 05 23 00-1228 LF 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod .....   | 14.32                     | 0.78                    |
| For Left Hand Threaded Rod, Add .....   | 1.28                      |                         |
| 05 05 23 00-1229 LF 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod .....   | 19.76                     | 0.81                    |
| For Left Hand Threaded Rod, Add .....   | 1.82                      |                         |
| 05 05 23 00-1230 LF 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod .....   | 27.47                     | 0.83                    |
| For Left Hand Threaded Rod, Add .....   | 2.58                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-1231 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>     | 35.49<br>3.36             | 0.94                    |
| 05 05 23 00-1232 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i> | 46.77<br>4.47             | 1.05                    |
| 05 05 23 00-1233 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i> | 61.58<br>5.92             | 1.13                    |
| 05 05 23 00-1234 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i> | 68.87<br>6.64             | 1.23                    |
| 05 05 23 00-1235 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i> | 82.06<br>7.95             | 1.28                    |
| 05 05 23 00-1236 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i> | 99.78<br>9.71             | 1.34                    |
| 05 05 23 00-1237 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>     | 174.54<br>17.17           | 1.41                    |
| <b>05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod</b> <small>(05 05 23 00-1190)</small>  |                           |                         |
| 05 05 23 00-1239 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                  | 4.22<br>0.31              | 0.56                    |
| 05 05 23 00-1240 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                 | 6.53<br>0.53              | 0.62                    |
| 05 05 23 00-1241 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                  | 8.47<br>0.71              | 0.72                    |
| 05 05 23 00-1242 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                 | 11.95<br>1.05             | 0.73                    |
| 05 05 23 00-1243 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                  | 14.43<br>1.29             | 0.76                    |
| 05 05 23 00-1244 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                 | 20.99<br>1.95             | 0.77                    |
| 05 05 23 00-1245 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                  | 21.94<br>2.04             | 0.78                    |
| 05 05 23 00-1246 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                  | 30.93<br>2.93             | 0.81                    |
| 05 05 23 00-1247 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                  | 42.76<br>4.11             | 0.83                    |
| 05 05 23 00-1248 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                    | 54.94<br>5.31             | 0.94                    |
| 05 05 23 00-1249 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                | 116.92<br>11.46           | 1.13                    |
| 05 05 23 00-1250 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                | 178.42<br>17.59           | 1.28                    |
| 05 05 23 00-1251 LF 1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                | 183.51<br>18.08           | 1.34                    |
| 05 05 23 00-1252 LF 2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                    | 254.26<br>25.14           | 1.41                    |
| <b>05 05 23 00-1253 316 Stainless Steel Threaded Rod</b> <small>(05 05 23 00-1190)</small>   |                           |                         |
| 05 05 23 00-1254 LF 1/4" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                       | 6.31<br>0.52              | 0.56                    |
| 05 05 23 00-1255 LF 5/16" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                      | 10.38<br>0.91             | 0.62                    |
| 05 05 23 00-1256 LF 3/8" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                       | 13.87<br>1.25             | 0.72                    |
| 05 05 23 00-1257 LF 7/16" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                      | 21.93<br>2.05             | 0.73                    |
| 05 05 23 00-1258 LF 1/2" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                       | 23.28<br>2.18             | 0.76                    |
| 05 05 23 00-1259 LF 9/16" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                      | 30.72<br>2.92             | 0.77                    |
| 05 05 23 00-1260 LF 5/8" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                       | 33.10<br>3.15             | 0.78                    |
| 05 05 23 00-1261 LF 3/4" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                       | 48.50<br>4.69             | 0.81                    |
| 05 05 23 00-1262 LF 7/8" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                       | 66.61<br>6.50             | 0.83                    |
| 05 05 23 00-1263 LF 1" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                         | 84.37<br>8.25             | 0.94                    |
| 05 05 23 00-1264 LF 1-1/4" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                     | 178.72<br>17.64           | 1.13                    |
| 05 05 23 00-1265 LF 1-1/2" Diameter, 316 Stainless Steel Threaded Rod.....<br><i>For Left Hand Threaded Rod, Add</i>                     | 234.47<br>23.19           | 1.28                    |
| <b>05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod</b> <small>(05 05 23 00-1190)</small>                                     |                           |                         |
| 05 05 23 00-1267 LF 1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....<br><i>For Zinc Plating, Add</i>                       | 4.70<br>1.79              | 0.56                    |
| 05 05 23 00-1268 LF 5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....<br><i>For Zinc Plating, Add</i>                      | 7.35<br>3.06              | 0.62                    |
| 05 05 23 00-1269 LF 3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....<br><i>For Zinc Plating, Add</i>                       | 7.67<br>3.13              | 0.72                    |
| 05 05 23 00-1270 LF 7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....<br><i>For Zinc Plating, Add</i>                      | 8.39<br>3.47              | 0.73                    |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1271 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....       | 9.27                      | 0.76                    |
| For Zinc Plating, Add .....   | 3.89                      |                         |
| 05 05 23 00-1272 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....      | 11.66                     | 0.77                    |
| For Zinc Plating, Add .....   | 5.07                      |                         |
| 05 05 23 00-1273 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....       | 12.04                     | 0.78                    |
| For Zinc Plating, Add .....   | 5.24                      |                         |
| 05 05 23 00-1274 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....       | 16.10                     | 0.81                    |
| For Zinc Plating, Add .....   | 7.25                      |                         |
| 05 05 23 00-1275 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....       | 19.36                     | 0.83                    |
| For Zinc Plating, Add .....   | 8.85                      |                         |
| 05 05 23 00-1276 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....         | 25.18                     | 0.94                    |
| For Zinc Plating, Add .....   | 11.65                     |                         |
| 05 05 23 00-1277 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....     | 32.84                     | 1.05                    |
| For Zinc Plating, Add .....   | 15.38                     |                         |
| 05 05 23 00-1278 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....     | 36.55                     | 1.13                    |
| For Zinc Plating, Add .....   | 17.10                     |                         |
| 05 05 23 00-1279 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....     | 42.24                     | 1.23                    |
| For Zinc Plating, Add .....   | 19.90                     |                         |
| 05 05 23 00-1280 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....     | 51.48                     | 1.28                    |
| For Zinc Plating, Add .....   | 24.46                     |                         |
| 05 05 23 00-1281 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....     | 53.21                     | 1.34                    |
| For Zinc Plating, Add .....   | 25.26                     |                         |
| 05 05 23 00-1282 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod .....         | 71.60                     | 1.41                    |
| For Zinc Plating, Add .....   | 34.39                     |                         |
| <b>05 05 23 00-1283 Nuts And Washers (05 05 23)</b>                                       |                           |                         |
| <b>05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)</b>                                       |                           |                         |
| <b>05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)</b> |                           |                         |
| 05 05 23 00-1286 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 0.71                      | 0.32                    |
| 05 05 23 00-1287 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....   | 0.80                      | 0.32                    |
| 05 05 23 00-1288 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 0.85                      | 0.32                    |
| 05 05 23 00-1289 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....   | 0.99                      | 0.32                    |
| 05 05 23 00-1290 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 1.08                      | 0.32                    |
| 05 05 23 00-1291 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....   | 1.44                      | 0.32                    |
| 05 05 23 00-1292 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 1.49                      | 0.32                    |
| 05 05 23 00-1293 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 1.77                      | 0.63                    |
| 05 05 23 00-1294 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 2.62                      | 0.63                    |
| 05 05 23 00-1295 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 3.33                      | 0.63                    |
| 05 05 23 00-1296 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....  | 5.48                      | 0.63                    |
| 05 05 23 00-1297 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....  | 6.72                      | 0.63                    |
| 05 05 23 00-1298 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....  | 9.91                      | 0.63                    |
| 05 05 23 00-1299 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....  | 11.48                     | 0.96                    |
| 05 05 23 00-1300 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....  | 16.90                     | 0.96                    |
| 05 05 23 00-1301 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 24.46                     | 0.96                    |
| <b>05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)</b>            |                           |                         |
| 05 05 23 00-1303 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....               | 0.73                      | 0.32                    |
| 05 05 23 00-1304 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....              | 0.81                      | 0.32                    |
| 05 05 23 00-1305 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....               | 0.88                      | 0.32                    |
| 05 05 23 00-1306 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....              | 1.03                      | 0.32                    |
| 05 05 23 00-1307 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....               | 1.22                      | 0.32                    |
| 05 05 23 00-1308 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....              | 1.48                      | 0.32                    |
| 05 05 23 00-1309 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....               | 1.52                      | 0.32                    |
| 05 05 23 00-1310 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....               | 2.01                      | 0.63                    |
| 05 05 23 00-1311 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....               | 2.86                      | 0.63                    |
| 05 05 23 00-1312 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....                 | 4.05                      | 0.63                    |
| 05 05 23 00-1313 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....             | 6.20                      | 0.63                    |
| 05 05 23 00-1314 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....             | 8.79                      | 0.63                    |
| 05 05 23 00-1315 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....             | 12.93                     | 0.63                    |
| 05 05 23 00-1316 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....             | 14.29                     | 0.96                    |
| 05 05 23 00-1317 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....             | 25.86                     | 0.96                    |
| 05 05 23 00-1318 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....                 | 37.11                     | 0.96                    |
| <b>05 05 23 00-1319 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)</b>            |                           |                         |
| 05 05 23 00-1320 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....               | 0.75                      | 0.32                    |
| 05 05 23 00-1321 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....              | 0.87                      | 0.32                    |
| 05 05 23 00-1322 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....               | 0.94                      | 0.32                    |
| 05 05 23 00-1323 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....              | 1.18                      | 0.32                    |
| 05 05 23 00-1324 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....               | 1.43                      | 0.32                    |
| 05 05 23 00-1325 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....              | 1.72                      | 0.32                    |
| 05 05 23 00-1326 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....               | 1.96                      | 0.32                    |
| 05 05 23 00-1327 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....               | 2.45                      | 0.63                    |
| 05 05 23 00-1328 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....               | 3.70                      | 0.63                    |
| 05 05 23 00-1329 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....                 | 4.94                      | 0.63                    |
| 05 05 23 00-1330 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....             | 7.76                      | 0.63                    |
| 05 05 23 00-1331 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....             | 9.69                      | 0.63                    |
| 05 05 23 00-1332 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....             | 16.00                     | 0.63                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-1333 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....                                       | 16.98                     | 0.96                    |
| 05 05 23 00-1334 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....                                       | 25.93                     | 0.96                    |
| 05 05 23 00-1335 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....   | 36.70                     | 0.96                    |
| <b>05 05 23 00-1336 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts</b> <small>(05 05 23 00-1284)</small> |                           |                         |
| 05 05 23 00-1337 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                    | 0.75                      | 0.32                    |
| 05 05 23 00-1338 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                   | 0.85                      | 0.32                    |
| 05 05 23 00-1339 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                    | 0.92                      | 0.32                    |
| 05 05 23 00-1340 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                   | 1.16                      | 0.32                    |
| 05 05 23 00-1341 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                    | 1.34                      | 0.32                    |
| 05 05 23 00-1342 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                   | 1.50                      | 0.32                    |
| 05 05 23 00-1343 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                    | 1.66                      | 0.32                    |
| 05 05 23 00-1344 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                    | 2.23                      | 0.63                    |
| 05 05 23 00-1345 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                    | 3.26                      | 0.63                    |
| 05 05 23 00-1346 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                      | 4.51                      | 0.63                    |
| 05 05 23 00-1347 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                  | 7.50                      | 0.63                    |
| 05 05 23 00-1348 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                  | 9.63                      | 0.63                    |
| 05 05 23 00-1349 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                  | 14.32                     | 0.63                    |
| 05 05 23 00-1350 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                  | 16.72                     | 0.96                    |
| 05 05 23 00-1351 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                  | 29.21                     | 0.96                    |
| 05 05 23 00-1352 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....                      | 50.60                     | 0.96                    |
| <b>05 05 23 00-1353 304 Stainless Steel Hex Nuts</b> <small>(05 05 23 00-1284)</small>                             |                           |                         |
| 05 05 23 00-1354 EA 1/4" Diameter, 304 Stainless Steel Hex Nut.....  | 0.88                      | 0.32                    |
| 05 05 23 00-1355 EA 5/16" Diameter, 304 Stainless Steel Hex Nut.....   | 1.06                      | 0.32                    |
| 05 05 23 00-1356 EA 3/8" Diameter, 304 Stainless Steel Hex Nut.....  | 1.21                      | 0.32                    |
| 05 05 23 00-1357 EA 7/16" Diameter, 304 Stainless Steel Hex Nut.....   | 1.88                      | 0.32                    |
| 05 05 23 00-1358 EA 1/2" Diameter, 304 Stainless Steel Hex Nut.....  | 2.04                      | 0.32                    |
| 05 05 23 00-1359 EA 9/16" Diameter, 304 Stainless Steel Hex Nut.....   | 3.21                      | 0.32                    |
| 05 05 23 00-1360 EA 5/8" Diameter, 304 Stainless Steel Hex Nut.....  | 3.60                      | 0.32                    |
| 05 05 23 00-1361 EA 3/4" Diameter, 304 Stainless Steel Hex Nut.....  | 4.16                      | 0.63                    |
| 05 05 23 00-1362 EA 7/8" Diameter, 304 Stainless Steel Hex Nut.....  | 6.96                      | 0.63                    |
| 05 05 23 00-1363 EA 1" Diameter, 304 Stainless Steel Hex Nut.....  | 10.75                     | 0.63                    |
| 05 05 23 00-1364 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut.....  | 26.16                     | 0.63                    |
| 05 05 23 00-1365 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut.....  | 50.54                     | 0.96                    |
| 05 05 23 00-1366 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut.....  | 89.16                     | 0.96                    |
| 05 05 23 00-1367 EA 2" Diameter, 304 Stainless Steel Hex Nut.....  | 127.23                    | 0.96                    |
| <b>05 05 23 00-1368 316 Stainless Steel Hex Nuts</b> <small>(05 05 23 00-1284)</small>                             |                           |                         |
| 05 05 23 00-1369 EA 1/4" Diameter, 316 Stainless Steel Hex Nut.....  | 1.05                      | 0.32                    |
| 05 05 23 00-1370 EA 5/16" Diameter, 316 Stainless Steel Hex Nut.....   | 1.22                      | 0.32                    |
| 05 05 23 00-1371 EA 3/8" Diameter, 316 Stainless Steel Hex Nut.....  | 1.48                      | 0.32                    |
| 05 05 23 00-1372 EA 7/16" Diameter, 316 Stainless Steel Hex Nut.....   | 2.53                      | 0.32                    |
| 05 05 23 00-1373 EA 1/2" Diameter, 316 Stainless Steel Hex Nut.....  | 2.72                      | 0.32                    |
| 05 05 23 00-1374 EA 9/16" Diameter, 316 Stainless Steel Hex Nut.....   | 3.78                      | 0.32                    |
| 05 05 23 00-1375 EA 5/8" Diameter, 316 Stainless Steel Hex Nut.....  | 4.29                      | 0.32                    |
| 05 05 23 00-1376 EA 3/4" Diameter, 316 Stainless Steel Hex Nut.....  | 6.06                      | 0.63                    |
| 05 05 23 00-1377 EA 7/8" Diameter, 316 Stainless Steel Hex Nut.....  | 8.52                      | 0.63                    |
| 05 05 23 00-1378 EA 1" Diameter, 316 Stainless Steel Hex Nut.....  | 13.23                     | 0.63                    |
| 05 05 23 00-1379 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut.....  | 40.76                     | 0.63                    |
| 05 05 23 00-1380 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut.....  | 66.11                     | 0.96                    |
| 05 05 23 00-1381 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut.....  | 111.83                    | 0.96                    |
| 05 05 23 00-1382 EA 2" Diameter, 316 Stainless Steel Hex Nut.....  | 208.25                    | 0.96                    |
| <b>05 05 23 00-1383 Flat Washers</b> <small>(05 05 23 00-1283)</small>   |                           |                         |
| <b>05 05 23 00-1384 Zinc Plated Steel, Low Carbon Flat Washers</b> <small>(05 05 23 00-1383)</small>               |                           |                         |
| 05 05 23 00-1385 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                           | 0.05                      |                         |
| 05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                          | 0.09                      |                         |
| 05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                           | 0.16                      |                         |
| 05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                          | 0.24                      |                         |
| 05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                           | 0.34                      |                         |
| 05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                          | 0.39                      |                         |
| 05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                           | 0.66                      |                         |
| 05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                           | 0.95                      |                         |
| 05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                           | 1.13                      |                         |
| 05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                             | 1.39                      |                         |
| 05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                         | 1.57                      |                         |
| 05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                         | 1.88                      |                         |
| 05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                         | 2.95                      |                         |
| 05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                         | 3.02                      |                         |
| 05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                         | 4.47                      |                         |
| 05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                             | 5.56                      |                         |
| <b>05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers</b> <small>(05 05 23 00-1383)</small>                 |                           |                         |

**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |       |  |
|------------------|----|--|-------|--|
| 05 05 23 00-1402 | EA | 1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....   | 0.20  |  |
| 05 05 23 00-1403 | EA | 5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....  | 0.28  |  |
| 05 05 23 00-1404 | EA | 3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....   | 0.32  |  |
| 05 05 23 00-1405 | EA | 7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....  | 0.44  |  |
| 05 05 23 00-1406 | EA | 1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....   | 0.59  |  |
| 05 05 23 00-1407 | EA | 9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....  | 0.95  |  |
| 05 05 23 00-1408 | EA | 5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....   | 1.36  |  |
| 05 05 23 00-1409 | EA | 3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....   | 1.92  |  |
| 05 05 23 00-1410 | EA | 7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....   | 3.21  |  |
| 05 05 23 00-1411 | EA | 1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....     | 3.56  |  |
| 05 05 23 00-1412 | EA | 1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer..... | 5.17  |  |
| 05 05 23 00-1413 | EA | 1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer..... | 5.65  |  |
| 05 05 23 00-1414 | EA | 1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer..... | 7.45  |  |
| 05 05 23 00-1415 | EA | 1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer..... | 8.52  |  |
| 05 05 23 00-1416 | EA | 1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer..... | 11.45 |  |
| 05 05 23 00-1417 | EA | 2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....     | 13.74 |  |

**05 05 23 00-1418 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)**

|                  |    |  |      |  |
|------------------|----|--|------|--|
| 05 05 23 00-1419 | EA | 1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....   | 0.13 |  |
| 05 05 23 00-1420 | EA | 5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....  | 0.19 |  |
| 05 05 23 00-1421 | EA | 3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....   | 0.21 |  |
| 05 05 23 00-1422 | EA | 7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....  | 0.40 |  |
| 05 05 23 00-1423 | EA | 1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....   | 0.51 |  |
| 05 05 23 00-1424 | EA | 9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....  | 0.84 |  |
| 05 05 23 00-1425 | EA | 5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....   | 0.94 |  |
| 05 05 23 00-1426 | EA | 3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....   | 1.42 |  |
| 05 05 23 00-1427 | EA | 7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....   | 2.00 |  |
| 05 05 23 00-1428 | EA | 1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....     | 2.20 |  |
| 05 05 23 00-1429 | EA | 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer..... | 3.36 |  |
| 05 05 23 00-1430 | EA | 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer..... | 3.74 |  |
| 05 05 23 00-1431 | EA | 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer..... | 5.34 |  |
| 05 05 23 00-1432 | EA | 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer..... | 5.79 |  |
| 05 05 23 00-1433 | EA | 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer..... | 8.40 |  |

**05 05 23 00-1434 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)**

|                  |    |   |       |  |
|------------------|----|---|-------|--|
| 05 05 23 00-1435 | EA | 1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....   | 0.19  |  |
| 05 05 23 00-1436 | EA | 5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....  | 0.26  |  |
| 05 05 23 00-1437 | EA | 3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....   | 0.36  |  |
| 05 05 23 00-1438 | EA | 7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....  | 0.67  |  |
| 05 05 23 00-1439 | EA | 1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....   | 1.23  |  |
| 05 05 23 00-1440 | EA | 9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....  | 1.54  |  |
| 05 05 23 00-1441 | EA | 5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....   | 2.25  |  |
| 05 05 23 00-1442 | EA | 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....   | 2.29  |  |
| 05 05 23 00-1443 | EA | 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....   | 4.83  |  |
| 05 05 23 00-1444 | EA | 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....     | 6.12  |  |
| 05 05 23 00-1445 | EA | 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer..... | 7.13  |  |
| 05 05 23 00-1446 | EA | 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer..... | 7.68  |  |
| 05 05 23 00-1447 | EA | 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer..... | 8.11  |  |
| 05 05 23 00-1448 | EA | 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer..... | 9.89  |  |
| 05 05 23 00-1449 | EA | 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer..... | 12.29 |  |
| 05 05 23 00-1450 | EA | 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....     | 24.15 |  |

**05 05 23 00-1451 316 Stainless Steel Flat Washers (05 05 23 00-1383)**

|                  |    |  |       |  |
|------------------|----|--|-------|--|
| 05 05 23 00-1452 | EA | 1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....   | 0.38  |  |
| 05 05 23 00-1453 | EA | 5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....  | 0.41  |  |
| 05 05 23 00-1454 | EA | 3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....   | 0.73  |  |
| 05 05 23 00-1455 | EA | 7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....  | 0.86  |  |
| 05 05 23 00-1456 | EA | 1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....   | 1.60  |  |
| 05 05 23 00-1457 | EA | 9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....  | 2.87  |  |
| 05 05 23 00-1458 | EA | 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....   | 3.38  |  |
| 05 05 23 00-1459 | EA | 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....   | 4.26  |  |
| 05 05 23 00-1460 | EA | 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....   | 6.60  |  |
| 05 05 23 00-1461 | EA | 1" Inside Diameter, 316 Stainless Steel Flat Washer.....     | 7.37  |  |
| 05 05 23 00-1462 | EA | 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer..... | 8.40  |  |
| 05 05 23 00-1463 | EA | 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer..... | 10.34 |  |
| 05 05 23 00-1464 | EA | 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer..... | 10.94 |  |
| 05 05 23 00-1465 | EA | 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer..... | 11.18 |  |
| 05 05 23 00-1466 | EA | 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer..... | 16.39 |  |

**05 05 23 00-1467 Lock Washers (05 05 23 00-1283)****05 05 23 00-1468 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)**

|                  |    |   |      |  |
|------------------|----|---|------|--|
| 05 05 23 00-1469 | EA | 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....  | 0.02 |  |
| 05 05 23 00-1470 | EA | 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer..... | 0.04 |  |
| 05 05 23 00-1471 | EA | 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....  | 0.06 |  |
| 05 05 23 00-1472 | EA | 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer..... | 0.10 |  |
| 05 05 23 00-1473 | EA | 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....  | 0.13 |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....  | 0.22                      |                         |
| 05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 0.25                      |                         |
| 05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 0.38                      |                         |
| 05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 0.63                      |                         |
| 05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 1.14                      |                         |
| 05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 1.66                      |                         |
| 05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 2.55                      |                         |
| 05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 4.03                      |                         |
| 05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 4.75                      |                         |
| 05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 8.47                      |                         |
| 05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer .....   | 9.54                      |                         |
| <b>05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers</b> <small>(05 05 23 00-1467)</small>  |                           |                         |
| 05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 0.10                      |                         |
| 05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....  | 0.12                      |                         |
| 05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 0.16                      |                         |
| 05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....  | 0.18                      |                         |
| 05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 0.28                      |                         |
| 05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....  | 0.37                      |                         |
| 05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 0.44                      |                         |
| 05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 0.73                      |                         |
| 05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 1.05                      |                         |
| 05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 1.66                      |                         |
| 05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 3.01                      |                         |
| 05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 3.59                      |                         |
| 05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 5.17                      |                         |
| 05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 5.92                      |                         |
| 05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 8.01                      |                         |
| 05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer .....   | 10.91                     |                         |
| <b>05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers</b> <small>(05 05 23 00-1467)</small>   |                           |                         |
| 05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 0.16                      |                         |
| 05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....   | 0.22                      |                         |
| 05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 0.32                      |                         |
| 05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....   | 0.59                      |                         |
| 05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 0.65                      |                         |
| 05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....   | 1.58                      |                         |
| 05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 1.86                      |                         |
| 05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 2.17                      |                         |
| 05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 3.93                      |                         |
| 05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 5.55                      |                         |
| 05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 9.69                      |                         |
| 05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 12.88                     |                         |
| 05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 16.39                     |                         |
| 05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer .....  | 19.66                     |                         |
| <b>05 05 23 00-1517 316 Stainless Steel Lock Washers</b> <small>(05 05 23 00-1467)</small>  |                           |                         |
| 05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 0.20                      |                         |
| 05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer .....  | 0.43                      |                         |
| 05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 0.50                      |                         |
| 05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer .....  | 0.85                      |                         |
| 05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 0.94                      |                         |
| 05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer .....  | 1.69                      |                         |
| 05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 1.85                      |                         |
| 05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 3.20                      |                         |
| 05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 5.28                      |                         |
| 05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 7.19                      |                         |
| 05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 10.04                     |                         |
| 05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 15.44                     |                         |
| 05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 27.65                     |                         |
| 05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer .....   | 30.70                     |                         |
| <b>05 05 23 00-1532 Load Indicating Washers</b> <small>(05 05 23 00-1283)</small>   |                           |                         |
| <b>05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> <small>(05 05 23 00-1532)</small>               |                           |                         |
| <b>05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> <small>(05 05 23 00-1533)</small> |                           |                         |
| 05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                            | 2.76                      |                         |
| 05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                            | 3.13                      |                         |
| 05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                            | 3.37                      |                         |
| 05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                            | 3.83                      |                         |
| 05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                              | 4.62                      |                         |
| 05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                          | 7.69                      |                         |
| 05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                          | 9.94                      |                         |
| 05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959) .....                          | 12.68                     |                         |

## 05 Metals

## 05 05 Common Work Results for Metals

## 05 05 23 Metal Fastenings



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....              | 13.95                     |                         |
| <b>05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers<br/>(ASTM F959) (05 05 23 00-1533)</b> |                           |                         |
| 05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                  | 3.50                      |                         |
| 05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                  | 3.89                      |                         |
| 05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                  | 3.79                      |                         |
| 05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                  | 4.62                      |                         |
| 05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                    | 5.48                      |                         |
| 05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                | 8.26                      |                         |
| 05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                | 10.39                     |                         |
| 05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                | 14.79                     |                         |
| 05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....                | 16.27                     |                         |
| <b>05 05 23 00-1554 Beveled Washers (05 05 23 00-1283)</b>   |                           |                         |
| <b>05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)</b>                         |                           |                         |
| 05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....                                      | 4.56                      |                         |
| 05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....                                      | 4.66                      |                         |
| 05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....                                      | 4.76                      |                         |
| 05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....                                      | 5.79                      |                         |
| 05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....  | 6.09                      |                         |
| <b>05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)</b>                           |                           |                         |
| 05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....  | 6.56                      |                         |
| 05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....  | 6.85                      |                         |
| 05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....  | 6.85                      |                         |
| 05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....  | 7.25                      |                         |
| 05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....  | 7.71                      |                         |
| <b>05 05 23 00-1567 Drilling In Existing Steel Plates (05 05 23)</b>   |                           |                         |
| 05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....  | 21.18                     |                         |
| For Aluminum, Deduct   | -2.12                     |                         |
| For Stainless Steel, Add   | 2.65                      |                         |
| For >5 To 10, Deduct   | -2.12                     |                         |
| For >10 To 25, Deduct  | -5.30                     |                         |
| For >25 To 50, Deduct  | -7.41                     |                         |
| For >50, Deduct  | -10.59                    |                         |
| 05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....   | 24.92                     |                         |
| For Aluminum, Deduct   | -2.49                     |                         |
| For Stainless Steel, Add   | 3.12                      |                         |
| For >5 To 10, Deduct   | -2.49                     |                         |
| For >10 To 25, Deduct  | -6.23                     |                         |
| For >25 To 50, Deduct  | -8.72                     |                         |
| For >50, Deduct  | -12.46                    |                         |
| 05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....   | 29.90                     |                         |
| For Aluminum, Deduct   | -2.99                     |                         |
| For Stainless Steel, Add   | 3.74                      |                         |
| For >5 To 10, Deduct   | -2.99                     |                         |
| For >10 To 25, Deduct  | -7.48                     |                         |
| For >25 To 50, Deduct  | -10.47                    |                         |
| For >50, Deduct  | -14.95                    |                         |
| 05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....   | 34.89                     |                         |
| For Aluminum, Deduct   | -3.49                     |                         |
| For Stainless Steel, Add   | 4.36                      |                         |
| For >5 To 10, Deduct   | -3.49                     |                         |
| For >10 To 25, Deduct  | -8.72                     |                         |
| For >25 To 50, Deduct  | -12.21                    |                         |
| For >50, Deduct  | -17.45                    |                         |
| 05 05 23 00-1572 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....  | 46.72                     |                         |
| For Aluminum, Deduct   | -4.67                     |                         |
| For Stainless Steel, Add   | 5.84                      |                         |
| For >5 To 10, Deduct   | -4.67                     |                         |
| For >10 To 25, Deduct  | -11.68                    |                         |
| For >25 To 50, Deduct  | -16.35                    |                         |
| For >50, Deduct  | -23.36                    |                         |
| 05 05 23 00-1573 EA Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....   | 24.92                     |                         |
| For Aluminum, Deduct   | -2.49                     |                         |
| For Stainless Steel, Add   | 3.12                      |                         |
| For >5 To 10, Deduct   | -2.49                     |                         |
| For >10 To 25, Deduct  | -6.23                     |                         |
| For >25 To 50, Deduct  | -8.72                     |                         |
| For >50, Deduct  | -12.46                    |                         |
| 05 05 23 00-1574 EA >1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....  | 31.15                     |                         |
| For Aluminum, Deduct   | -3.12                     |                         |
| For Stainless Steel, Add   | 3.89                      |                         |
| For >5 To 10, Deduct   | -3.12                     |                         |
| For >10 To 25, Deduct  | -7.79                     |                         |
| For >25 To 50, Deduct  | -10.90                    |                         |
| For >50, Deduct  | -15.58                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 05 23 00-1575 EA >7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate..... | 37.38                     |                         |
| <i>For Aluminum, Deduct</i>   | -3.74                     |                         |
| <i>For Stainless Steel, Add</i>   | 4.67                      |                         |
| <i>For &gt;5 To 10, Deduct</i>  | -3.74                     |                         |
| <i>For &gt;10 To 25, Deduct</i>   | -9.35                     |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -13.08                    |                         |
| <i>For &gt;50, Deduct</i>   | -18.69                    |                         |
| 05 05 23 00-1576 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....   | 46.72                     |                         |
| <i>For Aluminum, Deduct</i>   | -4.67                     |                         |
| <i>For Stainless Steel, Add</i>   | 5.84                      |                         |
| <i>For &gt;5 To 10, Deduct</i>  | -4.67                     |                         |
| <i>For &gt;10 To 25, Deduct</i>   | -11.68                    |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -16.35                    |                         |
| <i>For &gt;50, Deduct</i>   | -23.36                    |                         |
| 05 05 23 00-1577 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....        | 31.15                     |                         |
| <i>For Aluminum, Deduct</i>   | -3.12                     |                         |
| <i>For Stainless Steel, Add</i>   | 3.89                      |                         |
| <i>For &gt;5 To 10, Deduct</i>  | -3.12                     |                         |
| <i>For &gt;10 To 25, Deduct</i>   | -7.79                     |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -10.90                    |                         |
| <i>For &gt;50, Deduct</i>   | -15.58                    |                         |
| 05 05 23 00-1578 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....     | 41.12                     |                         |
| <i>For Aluminum, Deduct</i>   | -4.11                     |                         |
| <i>For Stainless Steel, Add</i>   | 5.14                      |                         |
| <i>For &gt;5 To 10, Deduct</i>  | -4.11                     |                         |
| <i>For &gt;10 To 25, Deduct</i>   | -10.28                    |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -14.39                    |                         |
| <i>For &gt;50, Deduct</i>   | -20.56                    |                         |
| 05 05 23 00-1579 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....   | 49.83                     |                         |
| <i>For Aluminum, Deduct</i>   | -4.98                     |                         |
| <i>For Stainless Steel, Add</i>   | 6.23                      |                         |
| <i>For &gt;5 To 10, Deduct</i>  | -4.98                     |                         |
| <i>For &gt;10 To 25, Deduct</i>   | -12.46                    |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -17.44                    |                         |
| <i>For &gt;50, Deduct</i>   | -24.92                    |                         |

**05 05 23 00-1580 Welded Stud Anchors** (05 05 23)

|  |       |
|--|-------|
| 05 05 23 00-1581 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....   | 4.55  |
| 05 05 23 00-1582 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors..... | 4.65  |
| 05 05 23 00-1583 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....   | 4.69  |
| 05 05 23 00-1584 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....   | 4.73  |
| 05 05 23 00-1585 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 4.45  |
| 05 05 23 00-1586 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 4.70  |
| 05 05 23 00-1587 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 4.95  |
| 05 05 23 00-1588 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 5.08  |
| 05 05 23 00-1589 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 5.22  |
| 05 05 23 00-1590 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 5.74  |
| 05 05 23 00-1591 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 6.16  |
| 05 05 23 00-1592 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....   | 6.50  |
| 05 05 23 00-1593 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 5.48  |
| 05 05 23 00-1594 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 5.51  |
| 05 05 23 00-1595 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 5.90  |
| 05 05 23 00-1596 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 6.27  |
| 05 05 23 00-1597 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 6.72  |
| 05 05 23 00-1598 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 7.43  |
| 05 05 23 00-1599 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....  | 7.88  |
| 05 05 23 00-1600 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 9.13  |
| 05 05 23 00-1601 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....   | 11.48 |
| 05 05 23 00-1602 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors..... | 7.88  |
| 05 05 23 00-1603 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....  | 8.47  |
| 05 05 23 00-1604 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors..... | 8.95  |
| 05 05 23 00-1605 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....  | 9.43  |
| 05 05 23 00-1606 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors..... | 9.83  |
| 05 05 23 00-1607 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....  | 10.20 |
| 05 05 23 00-1608 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....  | 10.68 |
| 05 05 23 00-1609 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....  | 12.69 |
| 05 05 23 00-1610 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....  | 15.47 |

**05 05 23 00-1611 Welded Shear Stud Connector** (05 05 23)

**05 05 23 00-1612 3/4" Diameter Welded Shear Stud Connector** (05 05 23 00-1611)

|   |       |
|---|-------|
| 05 05 23 00-1613 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....  | 10.13 |
| 05 05 23 00-1614 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....   | 10.55 |
| 05 05 23 00-1615 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....   | 10.67 |
| 05 05 23 00-1616 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....  | 10.72 |
| 05 05 23 00-1617 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....   | 11.21 |
| 05 05 23 00-1618 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector..... | 12.08 |
| 05 05 23 00-1619 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....   | 20.61 |
| 05 05 23 00-1620 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....  | 13.10 |
| 05 05 23 00-1621 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....   | 14.66 |
| 05 05 23 00-1622 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....  | 19.01 |



**05 Metals****05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 05 23 00-1623 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector .....  | 19.49                     |                         |
| 05 05 23 00-1624 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector .....  | 21.19                     |                         |
| 05 05 23 00-1625 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector ..... | 28.33                     |                         |
| <b>05 05 23 00-1626 7/8" Diameter Welded Shear Stud Connector</b> (05 05 23 00-1611) |                           |                         |
| 05 05 23 00-1627 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector .....  | 12.25                     |                         |
| 05 05 23 00-1628 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector ..... | 12.93                     |                         |
| 05 05 23 00-1629 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector .....  | 13.61                     |                         |
| 05 05 23 00-1630 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector .....  | 15.57                     |                         |
| 05 05 23 00-1631 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector .....  | 20.06                     |                         |
| 05 05 23 00-1632 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector .....  | 22.12                     |                         |
| 05 05 23 00-1633 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector .....  | 24.16                     |                         |
| 05 05 23 00-1634 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector ..... | 29.88                     |                         |
| <b>05 05 23 00-1635 1" Diameter Welded Shear Stud Connector</b> (05 05 23 00-1611)   |                           |                         |
| 05 05 23 00-1636 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector .....     | 16.70                     |                         |
| 05 05 23 00-1637 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector .....     | 18.80                     |                         |
| 05 05 23 00-1638 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector .....     | 21.88                     |                         |
| 05 05 23 00-1639 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector .....     | 27.79                     |                         |
| 05 05 23 00-1640 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector .....     | 31.02                     |                         |
| 05 05 23 00-1641 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector .....     | 34.25                     |                         |

**05 10 Structural Metal Framing** (05)**05 12 Structural Steel Framing** (05 10)**05 12 23 Structural Steel for Buildings** (05 12)

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0120 for field fabrication of additional structural metal connections.

**05 12 23 00-0001 Rolled Steel Members** (05 12 23)

Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0120 for field fabrication of additional structural metal connections.

**05 12 23 00-0002 Beams, Girders And Columns** (05 12 23 00-0001)

Note: For one and two story I beams and W shapes and HP shapes.

|  |           |          |
|--|-----------|----------|
| 05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns ..... | 11,253.16 | 1,327.49 |
| For ASTM A242 Type 2 High Strength Steel, Add                        | 680.55    |          |
| For Hot Dip Galvanizing, Add   | 2,381.92  |          |
| For >10 To 25 Tons, Deduct   | -723.08   |          |
| For >25 To 50 Tons, Deduct   | -1,488.70 |          |
| For >50 Tons, Deduct   | -2,126.72 |          |
| 05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns .....   | 7,897.10  | 858.13   |
| For ASTM A242 Type 2 High Strength Steel, Add                        | 558.53    |          |
| For Hot Dip Galvanizing, Add   | 1,954.87  |          |
| For >10 To 25 Tons, Deduct   | -593.44   |          |
| For >25 To 50 Tons, Deduct   | -1,221.79 |          |
| For >50 Tons, Deduct   | -1,745.42 |          |
| 05 12 23 00-0005 TON >65-100 LB/LF Beams, Girders And Columns .....  | 6,713.14  | 482.74   |
| For ASTM A242 Type 2 High Strength Steel, Add                        | 495.86    |          |
| For Hot Dip Galvanizing, Add   | 1,735.50  |          |
| For >10 To 25 Tons, Deduct   | -526.85   |          |
| For >25 To 50 Tons, Deduct   | -1,084.69 |          |
| For >50 Tons, Deduct   | -1,549.55 |          |
| 05 12 23 00-0006 TON >100-300 LB/LF Beams, Girders And Columns ..... | 4,511.83  | 256.95   |
| For ASTM A242 Type 2 High Strength Steel, Add                        | 338.98    |          |
| For Hot Dip Galvanizing, Add   | 1,186.42  |          |
| For >10 To 25 Tons, Deduct   | -360.16   |          |
| For >25 To 50 Tons, Deduct   | -741.51   |          |
| For >50 Tons, Deduct   | -1,059.30 |          |

**05 12 23 00-0007 Trusses, Built-Up** (05 12 23 00-0001)

|  |           |        |
|--|-----------|--------|
| 05 12 23 00-0008 TON Built-Up Trusses, Rolled Structural Steel Members ..... | 8,379.92  | 902.80 |
| For ASTM A242 Type 2 High Strength Steel, Add                                | 593.39    |        |
| For Hot Dip Galvanizing, Add   | 2,076.88  |        |
| For >10 To 25 Tons, Deduct   | -630.48   |        |
| For >25 To 50 Tons, Deduct   | -1,298.05 |        |
| For >50 Tons, Deduct   | -1,854.36 |        |

**05 12 23 00-0009 Shapes** (05 12 23 00-0001)**05 12 23 00-0010 Rolled Shape Steel Angles** (05 12 23 00-0009)



|  |                                       |
|--|---------------------------------------|
|  | <b>Metals 05</b>                      |
|  | <b>Structural Metal Framing 05 10</b> |
|  | <b>Structural Steel Framing 05 12</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 05 12 23 00-0011 TON Up To 10 LB/LF Rolled Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>         | 16,398.12<br>982.81<br>3,439.83<br>-1,044.24<br>-2,149.90<br>-3,071.28 | 2,467.80                |
| 05 12 23 00-0012 TON >10 To 20 LB/LF Rolled Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>        | 14,498.28<br>940.16<br>3,290.56<br>-998.92<br>-2,056.60<br>-2,938.00   | 1,448.24                |
| 05 12 23 00-0013 TON >20 To 58 LB/LF Rolled Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>        | 11,253.33<br>827.04<br>2,894.65<br>-878.73<br>-1,809.16<br>-2,584.51   | 858.13                  |
| <b>05 12 23 00-0014 Rolled C, MC Steel Channels (05 12 23 00-0009)</b>   |  |                         |
| 05 12 23 00-0015 TON Up To 10 LB/LF Rolled C, MC Steel Channels<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>       | 17,758.24<br>967.97<br>3,387.91<br>-1,028.47<br>-2,117.44<br>-3,024.92 | 3,379.22                |
| 05 12 23 00-0016 TON >10 To 20 Rolled C, MC Steel Channels<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>            | 14,336.02<br>927.18<br>3,245.12<br>-985.13<br>-2,028.20<br>-2,897.43   | 2,574.65                |
| 05 12 23 00-0017 TON >20 To 58 LB/LF Rolled C, MC Steel Channels<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>      | 11,067.90<br>812.21<br>2,842.73<br>-862.97<br>-1,776.71<br>-2,538.15   | 858.13                  |
| <b>05 12 23 00-0018 Double L Shape Steel Angles (05 12 23 00-0009)</b>   |  |                         |
| 05 12 23 00-0019 TON Up To 20 LB/LF Double L Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>       | 15,249.04<br>945.72<br>3,310.03<br>-1,004.83<br>-2,068.77<br>-2,955.38 | 1,958.02                |
| 05 12 23 00-0020 TON >20 To 50 LB/LF Double L Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>      | 12,041.43<br>890.09<br>3,115.32<br>-945.72<br>-1,947.07<br>-2,781.54   | 858.13                  |
| 05 12 23 00-0021 TON >50 To 80 LB/LF Double L Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>      | 9,091.33<br>686.11<br>2,401.39<br>-728.99<br>-1,500.87<br>-2,144.10    | 482.74                  |
| 05 12 23 00-0022 TON >80 To 115 LB/LF Double L Shape Steel Angles<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>     | 5,837.27<br>445.05<br>1,557.66<br>-472.86<br>-973.54<br>-1,390.77      | 257.33                  |
| <b>05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)</b>  |  |                         |
| 05 12 23 00-0024 TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 13,872.43<br>890.09<br>3,115.32<br>-945.72<br>-1,947.07<br>-2,781.54   | 1,448.24                |
| 05 12 23 00-0025 TON >30 To 65 LB/LF Structural WT, MT, ST Tee Shapes<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i> | 9,422.29<br>680.55<br>2,381.92<br>-723.08<br>-1,488.70<br>-2,126.72    | 858.13                  |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0026 TON >65 To 100 LB/LF Structural WT, MT, ST Tee Shapes .....        | 7,468.77                  | 482.74                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 556.31                    |                         |
| For Hot Dip Galvanizing, Add  | 1,947.08                  |                         |
| For >10 To 25 Tons, Deduct  | -591.08                   |                         |
| For >25 To 50 Tons, Deduct  | -1,216.92                 |                         |
| For >50 Tons, Deduct  | -1,738.46                 |                         |
| 05 12 23 00-0027 TON >100 To 365 LB/LF Structural WT, MT, ST Tee Shapes .....       | 5,513.19                  | 256.95                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 419.08                    |                         |
| For Hot Dip Galvanizing, Add  | 1,466.80                  |                         |
| For >10 To 25 Tons, Deduct  | -445.28                   |                         |
| For >25 To 50 Tons, Deduct  | -916.75                   |                         |
| For >50 Tons, Deduct  | -1,309.64                 |                         |
| <b>05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)</b>               |                           |                         |
| <b>05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)</b> |                           |                         |
| 05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles ..... | 13,153.87                 | 1,448.24                |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 832.61                    |                         |
| For Hot Dip Galvanizing, Add  | 2,914.12                  |                         |
| For >10 To 25 Tons, Deduct  | -884.64                   |                         |
| For >25 To 50 Tons, Deduct  | -1,821.33                 |                         |
| For >50 Tons, Deduct  | -2,601.90                 |                         |
| 05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles .....   | 9,491.85                  | 858.13                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 686.11                    |                         |
| For Hot Dip Galvanizing, Add  | 2,401.40                  |                         |
| For >10 To 25 Tons, Deduct  | -729.00                   |                         |
| For >25 To 50 Tons, Deduct  | -1,500.87                 |                         |
| For >50 Tons, Deduct  | -2,144.11                 |                         |
| 05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles .....  | 6,889.28                  | 482.74                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 509.95                    |                         |
| For Hot Dip Galvanizing, Add  | 1,784.82                  |                         |
| For >10 To 25 Tons, Deduct  | -541.82                   |                         |
| For >25 To 50 Tons, Deduct  | -1,115.51                 |                         |
| For >50 Tons, Deduct  | -1,593.59                 |                         |
| 05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles ..... | 5,976.35                  | 256.95                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 456.17                    |                         |
| For Hot Dip Galvanizing, Add  | 1,596.60                  |                         |
| For >10 To 25 Tons, Deduct  | -484.68                   |                         |
| For >25 To 50 Tons, Deduct  | -997.88                   |                         |
| For >50 Tons, Deduct  | -1,425.54                 |                         |
| 05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles ..... | 5,167.28                  | 128.99                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 402.40                    |                         |
| For Hot Dip Galvanizing, Add  | 1,408.39                  |                         |
| For >10 To 25 Tons, Deduct  | -427.55                   |                         |
| For >25 To 50 Tons, Deduct  | -880.24                   |                         |
| For >50 Tons, Deduct  | -1,257.49                 |                         |
| <b>05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)</b> |                           |                         |
| 05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles .....   | 9,120.96                  | 858.13                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 656.44                    |                         |
| For Hot Dip Galvanizing, Add  | 2,297.55                  |                         |
| For >10 To 25 Tons, Deduct  | -697.47                   |                         |
| For >25 To 50 Tons, Deduct  | -1,435.97                 |                         |
| For >50 Tons, Deduct  | -2,051.38                 |                         |
| 05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles .....  | 6,912.46                  | 482.74                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 511.80                    |                         |
| For Hot Dip Galvanizing, Add  | 1,791.31                  |                         |
| For >10 To 25 Tons, Deduct  | -543.79                   |                         |
| For >25 To 50 Tons, Deduct  | -1,119.57                 |                         |
| For >50 Tons, Deduct  | -1,599.38                 |                         |
| <b>05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)</b> |                           |                         |
| 05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles ..... | 13,872.43                 | 1,448.24                |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 890.09                    |                         |
| For Hot Dip Galvanizing, Add  | 3,115.32                  |                         |
| For >10 To 25 Tons, Deduct  | -945.72                   |                         |
| For >25 To 50 Tons, Deduct  | -1,947.07                 |                         |
| For >50 Tons, Deduct  | -2,781.54                 |                         |
| 05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles .....   | 9,955.42                  | 858.13                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 723.20                    |                         |
| For Hot Dip Galvanizing, Add  | 2,531.20                  |                         |
| For >10 To 25 Tons, Deduct  | -768.40                   |                         |
| For >25 To 50 Tons, Deduct  | -1,582.00                 |                         |
| For >50 Tons, Deduct  | -2,260.00                 |                         |
| 05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles .....  | 7,074.72                  | 482.74                  |
| For ASTM A242 Type 2 High Strength Steel, Add                                       | 524.78                    |                         |
| For Hot Dip Galvanizing, Add  | 1,836.74                  |                         |
| For >10 To 25 Tons, Deduct  | -557.58                   |                         |
| For >25 To 50 Tons, Deduct  | -1,147.96                 |                         |
| For >50 Tons, Deduct  | -1,639.95                 |                         |



|  |                                 |              |
|--|---------------------------------|--------------|
|  | <b>Metals</b>                   | <b>05</b>    |
|  | <b>Structural Metal Framing</b> | <b>05 10</b> |
|  | <b>Structural Steel Framing</b> | <b>05 12</b> |

05

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>05 12 23 00-0042 Standard Weight Pipe</b> <small>(05 12 23 00-0001)</small>  |                           |                         |
| 05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe.....  | 8,055.88                  | 772.39                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 578.56                    |                         |
| For Hot Dip Galvanizing, Add  | 2,024.96                  |                         |
| For >10 To 25 Tons, Deduct  | -614.72                   |                         |
| For >25 To 50 Tons, Deduct  | -1,265.60                 |                         |
| For >50 Tons, Deduct  | -1,808.00                 |                         |
| 05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe.....  | 8,586.37                  | 965.49                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 604.52                    |                         |
| For Hot Dip Galvanizing, Add  | 2,115.82                  |                         |
| For >10 To 25 Tons, Deduct  | -642.30                   |                         |
| For >25 To 50 Tons, Deduct  | -1,322.39                 |                         |
| For >50 Tons, Deduct  | -1,889.13                 |                         |
| <b>05 12 23 00-0045 Temporary Steel Support For Structures</b> <small>(05 12 23 00-0001)</small>  |                           |                         |
| Note: Includes removal after use.   |                           |                         |
| 05 12 23 00-0046 TON Up To 30 LB/LF Temporary Steel Support For Structures.....   | 11,253.16                 |                         |
| Note: For all stock sections.   |                           |                         |
| 05 12 23 00-0047 TON >30 LB/LF Temporary Steel Support For Structures .....   | 7,897.10                  |                         |
| Note: For all stock sections.   |                           |                         |
| <b>05 12 23 00-0048 Structural Steel Shapes</b> <small>(05 12 23)</small>   |                           |                         |
| Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0120 for field fabrication of additional structural metal connections. |                           |                         |
| <b>05 12 23 00-0049 Steel Rods</b> <small>(05 12 23 00-0048)</small>  |                           |                         |
| 05 12 23 00-0050 TON 1/2" To 5" Diameter Extra Strong Steel, Solid.....   | 8,710.11                  | 603.50                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 645.32                    |                         |
| For Hot Dip Galvanizing, Add  | 2,258.61                  |                         |
| For >10 To 25 Tons, Deduct  | -685.65                   |                         |
| For >25 To 50 Tons, Deduct  | -1,411.63                 |                         |
| For >50 Tons, Deduct  | -2,016.61                 |                         |
| 05 12 23 00-0051 TON >5" To 12" Diameter Extra Strong Steel, Solid .....  | 9,955.42                  | 858.13                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 723.20                    |                         |
| For Hot Dip Galvanizing, Add  | 2,531.20                  |                         |
| For >10 To 25 Tons, Deduct  | -768.40                   |                         |
| For >25 To 50 Tons, Deduct  | -1,582.00                 |                         |
| For >50 Tons, Deduct  | -2,260.00                 |                         |
| <b>05 12 23 00-0052 Column Base Plates</b> <small>(05 12 23 00-0048)</small>  |                           |                         |
| 05 12 23 00-0053 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items .....  | 4.32                      | 0.79                    |
| For ASTM A242 Type 2 High Strength Steel, Add   | 0.28                      |                         |
| For Hot Dip Galvanizing, Add  | 0.97                      |                         |
| 05 12 23 00-0054 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items .....   | 4.06                      | 0.67                    |
| For ASTM A242 Type 2 High Strength Steel, Add   | 0.26                      |                         |
| For Hot Dip Galvanizing, Add  | 0.92                      |                         |
| 05 12 23 00-0055 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items .....   | 7,922.33                  | 705.04                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 573.62                    |                         |
| For Hot Dip Galvanizing, Add  | 2,007.68                  |                         |
| For >10 To 25 Tons, Deduct  | -609.47                   |                         |
| For >25 To 50 Tons, Deduct  | -1,254.80                 |                         |
| For >50 Tons, Deduct  | -1,792.57                 |                         |
| 05 12 23 00-0056 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items.....   | 5,637.40                  | 423.03                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 414.89                    |                         |
| For Hot Dip Galvanizing, Add  | 1,452.13                  |                         |
| For >10 To 25 Tons, Deduct  | -440.82                   |                         |
| For >25 To 50 Tons, Deduct  | -907.58                   |                         |
| For >50 Tons, Deduct  | -1,296.54                 |                         |
| <b>05 12 23 00-0057 Double Extra Strong Pipes</b> <small>(05 12 23 00-0048)</small>   |                           |                         |
| 05 12 23 00-0058 TON 2" To 5" Diameter Double Extra Strong Pipe .....   | 10,402.41                 | 1,103.36                |
| For ASTM A242 Type 2 High Strength Steel, Add   | 738.03                    |                         |
| For Hot Dip Galvanizing, Add  | 2,583.12                  |                         |
| For >10 To 25 Tons, Deduct  | -784.16                   |                         |
| For >25 To 50 Tons, Deduct  | -1,614.45                 |                         |
| For >50 Tons, Deduct  | -2,306.36                 |                         |
| 05 12 23 00-0059 TON >5" To 8" Diameter Double Extra Strong Pipe.....   | 9,859.19                  | 594.10                  |
| For ASTM A242 Type 2 High Strength Steel, Add   | 738.03                    |                         |
| For Hot Dip Galvanizing, Add  | 2,583.12                  |                         |
| For >10 To 25 Tons, Deduct  | -784.16                   |                         |
| For >25 To 50 Tons, Deduct  | -1,614.45                 |                         |
| For >50 Tons, Deduct  | -2,306.36                 |                         |
| <b>05 12 23 00-0060 Structural Pipes</b> <small>(05 12 23 00-0048)</small>  |                           |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR            | DESCRIPTION   | TOTAL DIRECT   | DEMOLITION |
|------------------|---|--|------------|
| CSI UOM          |   | UNIT COST  | UNIT COST  |
| 05 12 23 00-0061 | TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items.....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>    | 7,274.60<br>519.22<br>1,817.27<br>-551.67<br>-1,135.79<br>-1,622.56  | 509.77     |
| 05 12 23 00-0062 | TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i> | 7,787.30<br>519.22<br>1,817.27<br>-551.67<br>-1,135.79<br>-1,622.56  | 587.92     |
| 05 12 23 00-0063 | Structural Tubing (05 12 23 00-0048)  |  |            |
| 05 12 23 00-0064 | Rectangle Structural Tubing (05 12 23 00-0063)  |  |            |
| 05 12 23 00-0065 | TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle.....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                            | 12,138.99<br>927.18<br>3,245.12<br>-985.13<br>-2,028.20<br>-2,897.43 | 514.93     |
| 05 12 23 00-0066 | TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                      | 12,223.49<br>927.18<br>3,245.12<br>-985.13<br>-2,028.20<br>-2,897.43 | 594.10     |
| 05 12 23 00-0067 | TON 5" x 4", 3", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                  | 10,653.74<br>797.37<br>2,790.81<br>-847.21<br>-1,744.25<br>-2,491.79 | 643.66     |
| 05 12 23 00-0068 | TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                  | 10,095.68<br>741.74<br>2,596.10<br>-788.10<br>-1,622.56<br>-2,317.95 | 772.39     |
| 05 12 23 00-0069 | TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                 | 9,916.17<br>720.06<br>2,520.21<br>-765.06<br>-1,575.13<br>-2,250.19  | 858.13     |
| 05 12 23 00-0070 | TON 8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>             | 10,055.31<br>703.09<br>2,460.80<br>-747.03<br>-1,538.00<br>-2,197.14 | 1,187.55   |
| 05 12 23 00-0071 | TON 10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                | 10,436.41<br>700.95<br>2,453.32<br>-744.76<br>-1,533.32<br>-2,190.46 | 1,569.89   |
| 05 12 23 00-0072 | TON 12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                | 10,683.80<br>708.36<br>2,479.28<br>-752.64<br>-1,549.55<br>-2,213.64 | 1,714.84   |
| 05 12 23 00-0073 | TON 14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 10,914.27<br>708.36<br>2,479.28<br>-752.64<br>-1,549.55<br>-2,213.64 | 1,930.99   |
| 05 12 23 00-0074 | TON 16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 11,508.12<br>700.95<br>2,453.32<br>-744.76<br>-1,533.32<br>-2,190.46 | 2,574.65   |
| 05 12 23 00-0075 | TON 18" x 6", 4" Weight Range 48-76 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                    | 12,857.18<br>682.40<br>2,388.41<br>-725.05<br>-1,492.76<br>-2,132.51 | 4,056.74   |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 05 12 23 00-0076 TON 20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i> | 14,463.10<br>651.60<br>2,280.59<br>-692.32<br>-1,425.37<br>-2,036.24 | 5,923.36                |
| <b>05 12 23 00-0077 Square Structural Tubing</b> <small>(05 12 23 00-0063)</small>  |  |                         |
| 05 12 23 00-0078 TON 2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                 | 12,104.66<br>927.18<br>3,245.12<br>-985.13<br>-2,028.20<br>-2,897.43 | 482.74                  |
| 05 12 23 00-0079 TON 2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>             | 12,138.99<br>927.18<br>3,245.12<br>-985.13<br>-2,028.20<br>-2,897.43 | 514.93                  |
| 05 12 23 00-0080 TON 3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>                | 10,885.54<br>815.92<br>2,855.71<br>-866.91<br>-1,784.82<br>-2,549.74 | 643.66                  |
| 05 12 23 00-0081 TON 3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>            | 10,791.06<br>797.37<br>2,790.81<br>-847.21<br>-1,744.25<br>-2,491.79 | 772.39                  |
| 05 12 23 00-0082 TON 4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 8,632.72<br>608.23<br>2,128.80<br>-646.24<br>-1,330.50<br>-1,900.72  | 965.49                  |
| 05 12 23 00-0083 TON 5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 8,779.84<br>608.23<br>2,128.80<br>-646.24<br>-1,330.50<br>-1,900.72  | 1,103.36                |
| 05 12 23 00-0084 TON 6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 9,250.64<br>608.23<br>2,128.80<br>-646.24<br>-1,330.50<br>-1,900.72  | 1,544.79                |
| 05 12 23 00-0085 TON 7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 9,801.65<br>619.36<br>2,167.74<br>-658.06<br>-1,354.84<br>-1,935.49  | 1,930.99                |
| 05 12 23 00-0086 TON 8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>               | 11,739.92<br>719.49<br>2,518.22<br>-764.46<br>-1,573.89<br>-2,248.41 | 2,574.65                |
| 05 12 23 00-0087 TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>             | 13,113.06<br>719.49<br>2,518.22<br>-764.46<br>-1,573.89<br>-2,248.41 | 3,861.97                |
| 05 12 23 00-0088 TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>             | 12,576.95<br>619.36<br>2,167.74<br>-658.06<br>-1,354.84<br>-1,935.49 | 4,532.79                |
| 05 12 23 00-0089 TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>             | 15,126.35<br>704.66<br>2,466.30<br>-748.70<br>-1,541.44<br>-2,202.05 | 5,923.36                |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 05 12 23 00-0090 TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 17,232.50<br>719.49<br>2,518.22<br>-764.46<br>-1,573.89<br>-2,248.41                                     | 7,723.93                |
| <b>05 12 23 00-0091 Structural Shapes</b> (05 12 23 00-0048)  |  |                         |
| 05 12 23 00-0092 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF) .....<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;20 To 50 LB/LF, Deduct</i><br><i>For &gt;50 To 75 LB/LF, Deduct</i><br><i>For &gt;75 To 100 LB/LF, Deduct</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i> | 8,735.69<br>340.74<br>1,192.58<br>-1,097.39<br>-1,758.00<br>-2,418.61<br>-362.03<br>-745.37<br>-1,064.81 | 2,820.17                |
| 05 12 23 00-0093 TON Structural Shapes, Steel Plate A36 Structural Steel .....<br>Note: Up to 21.5 LB per SF<br><i>For ASTM A242 Type 2 High Strength Steel, Add</i><br><i>For Hot Dip Galvanizing, Add</i><br><i>For &gt;21.5 To 50 LB/LF, Deduct</i><br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 8,917.68<br>593.41<br>2,076.93<br>-966.77<br>-630.50<br>-1,298.08<br>-1,854.40                           | 1,128.07                |
| 05 12 23 00-0094 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF).....   | 5.21   | 0.25                    |
| 05 12 23 00-0095 LB Structural Shapes, Galvanized Pipe Supports.....  | 6.37   | 0.25                    |
| <b>05 12 23 00-0096 Built-Up Trusses</b> (05 12 23 00-0048)   |  |                         |
| 05 12 23 00-0097 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up .....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 9,845.98<br>-801.89<br>-1,650.96<br>-2,358.51  | 386.20                  |
| 05 12 23 00-0098 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up .....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>   | 9,755.61<br>-809.77<br>-1,667.18<br>-2,381.69  | 214.47                  |
| 05 12 23 00-0099 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up .....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 8,697.56<br>-728.99<br>-1,500.87<br>-2,144.10  | 113.54                  |
| 05 12 23 00-0100 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up .....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 8,459.04<br>-709.29<br>-1,460.31<br>-2,086.15  | 107.36                  |
| <b>05 12 23 00-0101 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps</b> (05 12 23 00-0048)<br>Note: Includes shop fabrication, welds, drilling and shop primer.  |  |                         |
| 05 12 23 00-0102 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 32.16  | 8.12                    |
| 05 12 23 00-0103 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 48.24  | 12.15                   |
| 05 12 23 00-0104 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 64.32  | 16.20                   |
| 05 12 23 00-0105 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 80.41  | 20.24                   |
| 05 12 23 00-0106 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 96.49  | 24.17                   |
| 05 12 23 00-0107 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 112.57   | 28.34                   |
| 05 12 23 00-0108 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 128.65   | 32.39                   |
| 05 12 23 00-0109 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 144.73   | 36.44                   |
| 05 12 23 00-0110 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 160.81   | 40.48                   |
| 05 12 23 00-0111 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 176.90   | 44.53                   |
| 05 12 23 00-0112 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 192.98   | 48.58                   |
| 05 12 23 00-0113 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 209.07   | 52.63                   |
| 05 12 23 00-0114 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 225.15   | 56.67                   |
| 05 12 23 00-0115 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 241.24   | 60.72                   |
| 05 12 23 00-0116 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....   | 257.32   | 64.77                   |
| <b>05 12 23 00-0117 Accessories For Steel</b> (05 12 23)  |  |                         |
| <b>05 12 23 00-0118 Field Painting For Touch-Up Of Shop Prime Coat</b> (05 12 23 00-0117)   |  |                         |
| 05 12 23 00-0119 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....  | 1.23   |                         |
| <b>05 12 23 00-0120 Connection And Stiffener Plates</b> (05 12 23 00-0117)<br>Note: For field fabrication of additional structural metal connections.   |  |                         |
| 05 12 23 00-0121 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 21,413.84<br>-1,820.18<br>-3,747.42<br>-5,353.46   |                         |
| 05 12 23 00-0122 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>   | 18,270.20<br>-1,552.97<br>-3,197.29<br>-4,567.55   |                         |



|  |                                 |              |
|--|---------------------------------|--------------|
|  | <b>Metals</b>                   | <b>05</b>    |
|  | <b>Structural Metal Framing</b> | <b>05 10</b> |
|  | <b>Structural Steel Framing</b> | <b>05 12</b> |

05

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                        | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 05 12 23 00-0123 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 14,128.72<br>-1,200.94<br>-2,472.53<br>-3,532.18 |                         |
| 05 12 23 00-0124 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>   | 14,128.72<br>-1,200.94<br>-2,472.53<br>-3,532.18 |                         |
| 05 12 23 00-0125 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 14,128.72<br>-1,200.94<br>-2,472.53<br>-3,532.18 |                         |
| 05 12 23 00-0126 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 14,128.72<br>-1,200.94<br>-2,472.53<br>-3,532.18 |                         |
| 05 12 23 00-0127 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>   | 14,128.72<br>-1,200.94<br>-2,472.53<br>-3,532.18 |                         |
| 05 12 23 00-0128 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 14,128.72<br>-1,200.94<br>-2,472.53<br>-3,532.18 |                         |
| 05 12 23 00-0129 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 13,245.67<br>-1,125.88<br>-2,317.99<br>-3,311.42 |                         |
| 05 12 23 00-0130 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 13,245.67<br>-1,125.88<br>-2,317.99<br>-3,311.42 |                         |
| 05 12 23 00-0131 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....<br><i>For &gt;10 To 25 Tons, Deduct</i><br><i>For &gt;25 To 50 Tons, Deduct</i><br><i>For &gt;50 Tons, Deduct</i>  | 13,245.67<br>-1,125.88<br>-2,317.99<br>-3,311.42 |                         |
| <b>05 12 23 00-0132 Field Applied Cold Galvanizing</b> <small>(05 12 23 00-0117)</small>   |  |                         |
| 05 12 23 00-0133 SF Brush Applied Cold Galvanizing .....   | 1.96   |                         |
| <b>05 12 23 00-0134 Metal Grinding</b> <small>(05 12 23 00-0117)</small>   |  |                         |
| Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.  |  |                         |
| 05 12 23 00-0135 SI Metal Grinding Up To 1/32" Thickness To Be Removed.....<br>Note: Includes rust or scale removal on metal and smoothing surface.  | 1.32   |                         |
| <b>05 12 23 00-0136 Structural Steel For Buildings And Structures</b> <small>(05 12 23)</small>  |  |                         |
| Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. |  |                         |
| <b>05 12 23 00-0137 First Tier A992/A36 Structural Steel Columns, W Shapes</b> <small>(05 12 23 00-0136)</small>   |  |                         |
| Note: With base plate. Includes material delivery and erection.  |  |                         |
| 05 12 23 00-0138 LF W14 x 730 A992/A36 Structural Column .....   | 1,684.66   | 78.22                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 444.35   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 151.62   |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 336.93   |  |                         |
| 05 12 23 00-0139 LF W14 x 665 A992/A36 Structural Column .....   | 1,536.41   | 72.91                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 404.79   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 138.28   |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 307.28   |  |                         |
| 05 12 23 00-0140 LF W14 x 605 A992/A36 Structural Column .....   | 1,399.44   | 67.86                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 368.26   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 125.95   |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 279.89   |  |                         |
| 05 12 23 00-0141 LF W14 x 550 A992/A36 Structural Column .....   | 1,273.74   | 63.13                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 334.79   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 114.64   |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 254.75   |  |                         |
| 05 12 23 00-0142 LF W14 x 500 A992/A36 Structural Column .....   | 1,168.19   | 66.94                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 304.35   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 105.14   |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 233.64   |  |                         |
| 05 12 23 00-0143 LF W14 x 426 A992/A36 Structural Column .....   | 996.72   | 58.45                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 259.31   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 89.70  |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 199.34   |  |                         |
| 05 12 23 00-0144 LF W14 x 342 A992/A36 Structural Column .....   | 805.95   | 50.59                   |
| <i>For Hot Dip Galvanizing, Add</i>  |  |                         |
| 208.70   |  |                         |
| <i>For High Strength Low Alloy A572-50 Steel, Add</i>  |  |                         |
| 72.54  |  |                         |
| <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   |  |                         |
| 161.19   |  |                         |



**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION                                   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0145 LF W14 x 311 A992/A36 Structural Column ..... | 725.88                    | 47.25                   |
| For Hot Dip Galvanizing, Add                                   | 187.44                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 65.33                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 145.18                    |                         |
| 05 12 23 00-0146 LF W14 x 283 A992/A36 Structural Column ..... | 658.86                    | 44.54                   |
| For Hot Dip Galvanizing, Add                                   | 169.67                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 59.30                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 131.77                    |                         |
| 05 12 23 00-0147 LF W14 x 257 A992/A36 Structural Column ..... | 579.09                    | 42.23                   |
| For Hot Dip Galvanizing, Add                                   | 148.21                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 52.12                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 115.82                    |                         |
| 05 12 23 00-0148 LF W14 x 233 A992/A36 Structural Column ..... | 532.93                    | 39.26                   |
| For Hot Dip Galvanizing, Add                                   | 136.28                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 47.96                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 106.59                    |                         |
| 05 12 23 00-0149 LF W14 x 211 A992/A36 Structural Column ..... | 474.01                    | 36.56                   |
| For Hot Dip Galvanizing, Add                                   | 120.72                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 42.66                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 94.80                     |                         |
| 05 12 23 00-0150 LF W14 x 193 A992/A36 Structural Column ..... | 428.72                    | 34.75                   |
| For Hot Dip Galvanizing, Add                                   | 108.68                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 38.58                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 85.74                     |                         |
| 05 12 23 00-0151 LF W14 x 176 A992/A36 Structural Column ..... | 386.40                    | 33.22                   |
| For Hot Dip Galvanizing, Add                                   | 97.40                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 34.78                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 77.28                     |                         |
| 05 12 23 00-0152 LF W14 x 159 A992/A36 Structural Column ..... | 349.35                    | 32.05                   |
| For Hot Dip Galvanizing, Add                                   | 87.48                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 31.44                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 69.87                     |                         |
| 05 12 23 00-0153 LF W14 x 145 A992/A36 Structural Column ..... | 337.61                    | 31.03                   |
| For Hot Dip Galvanizing, Add                                   | 84.51                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 30.38                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 67.52                     |                         |
| 05 12 23 00-0154 LF W14 x 132 A992/A36 Structural Column ..... | 288.70                    | 29.61                   |
| For Hot Dip Galvanizing, Add                                   | 71.36                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 25.98                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 57.74                     |                         |
| 05 12 23 00-0155 LF W14 x 120 A992/A36 Structural Column ..... | 270.69                    | 28.84                   |
| For Hot Dip Galvanizing, Add                                   | 66.58                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 24.36                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 54.14                     |                         |
| 05 12 23 00-0156 LF W14 x 109 A992/A36 Structural Column ..... | 242.36                    | 27.68                   |
| For Hot Dip Galvanizing, Add                                   | 59.07                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 21.81                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 48.47                     |                         |
| 05 12 23 00-0157 LF W14 x 99 A992/A36 Structural Column .....  | 221.13                    | 26.91                   |
| For Hot Dip Galvanizing, Add                                   | 53.43                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 19.90                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 44.23                     |                         |
| 05 12 23 00-0158 LF W14 x 90 A992/A36 Structural Column .....  | 205.42                    | 26.26                   |
| For Hot Dip Galvanizing, Add                                   | 49.25                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 18.49                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 41.08                     |                         |
| 05 12 23 00-0159 LF W14 x 82 A992/A36 Structural Column .....  | 189.23                    | 25.49                   |
| For Hot Dip Galvanizing, Add                                   | 44.97                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 17.03                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 37.85                     |                         |
| 05 12 23 00-0160 LF W14 x 74 A992/A36 Structural Column .....  | 170.85                    | 24.84                   |
| For Hot Dip Galvanizing, Add                                   | 40.09                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 15.38                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 34.17                     |                         |
| 05 12 23 00-0161 LF W14 x 68 A992/A36 Structural Column .....  | 159.58                    | 24.46                   |
| For Hot Dip Galvanizing, Add                                   | 37.07                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 14.36                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 31.92                     |                         |
| 05 12 23 00-0162 LF W14 x 61 A992/A36 Structural Column .....  | 145.50                    | 23.82                   |
| For Hot Dip Galvanizing, Add                                   | 33.34                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 13.10                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 29.10                     |                         |
| 05 12 23 00-0163 LF W14 x 53 A992/A36 Structural Column .....  | 132.52                    | 23.17                   |
| For Hot Dip Galvanizing, Add                                   | 29.91                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 11.93                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 26.50                     |                         |
| 05 12 23 00-0164 LF W14 x 48 A992/A36 Structural Column .....  | 124.14                    | 22.78                   |
| For Hot Dip Galvanizing, Add                                   | 27.70                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 11.17                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 24.83                     |                         |
| 05 12 23 00-0165 LF W14 x 43 A992/A36 Structural Column .....  | 112.02                    | 22.40                   |
| For Hot Dip Galvanizing, Add                                   | 24.48                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 10.08                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 22.40                     |                         |



|  |                          |           |
|--|--------------------------|-----------|
|  | <b>Metals</b>            | <b>05</b> |
|  | Structural Metal Framing | 05 10     |
|  | Structural Steel Framing | 05 12     |

05

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST              | DEMOLITION UNIT COST |
|------------------|-----|-----|--|-------------------------------------|----------------------|
| 05 12 23 00-0166 | LF  |     | W12 x 336 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 768.22<br>202.88<br>69.14<br>153.64 | 34.84                |
| 05 12 23 00-0167 | LF  |     | W12 x 305 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 700.04<br>184.16<br>63.00<br>140.01 | 34.14                |
| 05 12 23 00-0168 | LF  |     | W12 x 279 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 643.03<br>168.46<br>57.87<br>128.61 | 33.73                |
| 05 12 23 00-0169 | LF  |     | W12 x 252 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 583.38<br>152.16<br>52.50<br>116.68 | 32.89                |
| 05 12 23 00-0170 | LF  |     | W12 x 230 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 535.01<br>138.87<br>48.15<br>107.00 | 32.41                |
| 05 12 23 00-0171 | LF  |     | W12 x 210 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 490.99<br>126.80<br>44.19<br>98.20  | 31.96                |
| 05 12 23 00-0172 | LF  |     | W12 x 190 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 451.40<br>114.72<br>40.63<br>90.28  | 35.53                |
| 05 12 23 00-0173 | LF  |     | W12 x 170 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 407.89<br>103.01<br>36.71<br>81.58  | 34.50                |
| 05 12 23 00-0174 | LF  |     | W12 x 152 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 367.68<br>92.56<br>33.09<br>73.54   | 32.05                |
| 05 12 23 00-0175 | LF  |     | W12 x 136 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 349.54<br>87.78<br>31.46<br>69.91   | 31.15                |
| 05 12 23 00-0176 | LF  |     | W12 x 120 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 264.57<br>64.92<br>23.81<br>52.91   | 28.58                |
| 05 12 23 00-0177 | LF  |     | W12 x 106 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i> | 243.81<br>59.48<br>21.94<br>48.76   | 27.68                |
| 05 12 23 00-0178 | LF  |     | W12 x 96 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 218.11<br>52.63<br>19.63<br>43.62   | 26.78                |
| 05 12 23 00-0179 | LF  |     | W12 x 87 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 201.18<br>48.15<br>18.11<br>40.24   | 25.88                |
| 05 12 23 00-0180 | LF  |     | W12 x 79 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 176.50<br>41.55<br>15.89<br>35.30   | 25.11                |
| 05 12 23 00-0181 | LF  |     | W12 x 72 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 161.52<br>37.57<br>14.54<br>32.30   | 24.46                |
| 05 12 23 00-0182 | LF  |     | W12 x 65 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 147.63<br>33.89<br>13.29<br>29.53   | 23.94                |
| 05 12 23 00-0183 | LF  |     | W12 x 58 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 142.83<br>32.63<br>12.85<br>28.57   | 23.68                |
| 05 12 23 00-0184 | LF  |     | W12 x 53 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 132.52<br>29.91<br>11.93<br>26.50   | 23.17                |
| 05 12 23 00-0185 | LF  |     | W12 x 50 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 128.40<br>28.81<br>11.56<br>25.68   | 23.04                |
| 05 12 23 00-0186 | LF  |     | W12 x 45 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 116.63<br>25.69<br>10.50<br>23.33   | 22.53                |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION                                   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0187 LF W12 x 40 A992/A36 Structural Column .....  | 104.50                    | 22.02                   |
| For Hot Dip Galvanizing, Add                                   | 22.46                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 9.41                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 20.90                     |                         |
| 05 12 23 00-0188 LF W10 x 112 A992/A36 Structural Column ..... | 255.03                    | 28.19                   |
| For Hot Dip Galvanizing, Add                                   | 62.45                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 22.95                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 51.01                     |                         |
| 05 12 23 00-0189 LF W10 x 110 A992/A36 Structural Column ..... | 230.65                    | 27.03                   |
| For Hot Dip Galvanizing, Add                                   | 56.00                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 20.76                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 46.13                     |                         |
| 05 12 23 00-0190 LF W10 x 88 A992/A36 Structural Column .....  | 207.30                    | 26.13                   |
| For Hot Dip Galvanizing, Add                                   | 49.81                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 18.66                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 41.46                     |                         |
| 05 12 23 00-0191 LF W10 x 77 A992/A36 Structural Column .....  | 184.31                    | 25.11                   |
| For Hot Dip Galvanizing, Add                                   | 43.71                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 16.59                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 36.86                     |                         |
| 05 12 23 00-0192 LF W10 x 68 A992/A36 Structural Column .....  | 165.93                    | 24.46                   |
| For Hot Dip Galvanizing, Add                                   | 38.83                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 14.93                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 33.19                     |                         |
| 05 12 23 00-0193 LF W10 x 60 A992/A36 Structural Column .....  | 145.50                    | 23.82                   |
| For Hot Dip Galvanizing, Add                                   | 33.34                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 13.10                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 29.10                     |                         |
| 05 12 23 00-0194 LF W10 x 54 A992/A36 Structural Column .....  | 144.53                    | 23.43                   |
| For Hot Dip Galvanizing, Add                                   | 33.14                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 13.01                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 28.91                     |                         |
| 05 12 23 00-0195 LF W10 x 49 A992/A36 Structural Column .....  | 126.82                    | 23.04                   |
| For Hot Dip Galvanizing, Add                                   | 28.40                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 11.41                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 25.36                     |                         |
| 05 12 23 00-0196 LF W10 x 45 A992/A36 Structural Column .....  | 122.39                    | 22.66                   |
| For Hot Dip Galvanizing, Add                                   | 27.24                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 11.02                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 24.48                     |                         |
| 05 12 23 00-0197 LF W10 x 39 A992/A36 Structural Column .....  | 106.44                    | 22.27                   |
| For Hot Dip Galvanizing, Add                                   | 22.97                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 9.58                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 21.29                     |                         |
| 05 12 23 00-0198 LF W10 x 33 A992/A36 Structural Column .....  | 92.73                     | 21.63                   |
| For Hot Dip Galvanizing, Add                                   | 19.34                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 8.35                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 18.55                     |                         |
| 05 12 23 00-0199 LF W8 x 67 A992/A36 Structural Column .....   | 159.76                    | 24.46                   |
| For Hot Dip Galvanizing, Add                                   | 37.12                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 14.38                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 31.95                     |                         |
| 05 12 23 00-0200 LF W8 x 58 A992/A36 Structural Column .....   | 143.37                    | 23.68                   |
| For Hot Dip Galvanizing, Add                                   | 32.78                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 12.90                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 28.67                     |                         |
| 05 12 23 00-0201 LF W8 x 48 A992/A36 Structural Column .....   | 128.27                    | 23.04                   |
| For Hot Dip Galvanizing, Add                                   | 28.81                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 11.54                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 25.65                     |                         |
| 05 12 23 00-0202 LF W8 x 40 A992/A36 Structural Column .....   | 110.02                    | 22.40                   |
| For Hot Dip Galvanizing, Add                                   | 23.92                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 9.90                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 22.00                     |                         |
| 05 12 23 00-0203 LF W8 x 35 A992/A36 Structural Column .....   | 99.35                     | 21.88                   |
| For Hot Dip Galvanizing, Add                                   | 21.10                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 8.94                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 19.87                     |                         |
| 05 12 23 00-0204 LF W8 x 31 A992/A36 Structural Column .....   | 90.73                     | 21.63                   |
| For Hot Dip Galvanizing, Add                                   | 18.78                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 8.17                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 18.15                     |                         |
| 05 12 23 00-0205 LF W8 x 28 A992/A36 Structural Column .....   | 85.39                     | 21.37                   |
| For Hot Dip Galvanizing, Add                                   | 17.37                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 7.69                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 17.08                     |                         |
| 05 12 23 00-0206 LF W8 x 24 A992/A36 Structural Column .....   | 78.97                     | 21.11                   |
| For Hot Dip Galvanizing, Add                                   | 15.66                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 7.11                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 15.79                     |                         |
| 05 12 23 00-0207 LF W8 x 21 A992/A36 Structural Column .....   | 74.72                     | 20.98                   |
| For Hot Dip Galvanizing, Add                                   | 14.55                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                 | 6.72                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add            | 14.94                     |                         |



|  |                                 |              |
|--|---------------------------------|--------------|
|  | <b>Metals</b>                   | <b>05</b>    |
|  | <b>Structural Metal Framing</b> | <b>05 10</b> |
|  | <b>Structural Steel Framing</b> | <b>05 12</b> |

05

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|------------------|-----|-----|---|---|----------------------|
| 05 12 23 00-0208 | LF  |     | W8 x 18 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 66.66<br>12.39<br>6.00<br>13.33                                 | 20.59                |
| 05 12 23 00-0209 | LF  |     | W6 x 25 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 82.96<br>16.77<br>7.47<br>16.59                                 | 21.11                |
| 05 12 23 00-0210 | LF  |     | W6 x 20 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 70.05<br>13.30<br>6.30<br>14.01                                 | 20.73                |
| 05 12 23 00-0211 | LF  |     | W6 x 15 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 59.97<br>10.68<br>5.40<br>11.99                                 | 20.08                |
| 05 12 23 00-0212 | LF  |     | W6 x 12 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 56.16<br>9.62<br>5.05<br>11.23                                  | 20.08                |
| 05 12 23 00-0213 | LF  |     | W6 x 9 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>   | 51.31<br>8.31<br>4.62<br>10.26                                  | 19.96                |
| 05 12 23 00-0214 | LF  |     | W5 x 19 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 68.96<br>12.99<br>6.21<br>13.79                                 | 20.73                |
| 05 12 23 00-0215 | LF  |     | W5 x 16 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 63.44<br>11.53<br>5.71<br>12.69                                 | 20.59                |
| 05 12 23 00-0216 | LF  |     | W4 x 13 A992/A36 Structural Column .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Grade B Steel, Add</i>  | 59.38<br>10.48<br>5.34<br>11.88                                 | 20.34                |
| 05 12 23 00-0217 |     |     | <b>A992/A36 Structural Steel Beams And Girders, W Shapes</b> <small>(05 12 23 00-0136)</small><br>Note: Includes material delivery and erection.  |   |                      |
| 05 12 23 00-0218 | LF  |     | W36 x 300 A992/A36 Structural Beam Or Girder .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Steel, Add</i><br><i>For Each Additional Top Copes &gt;2, Add</i><br><i>For Structural Tees, WT, MT Or ST, Deduct</i><br><i>For Skewed Or Sloped Connections, Add</i> | 606.66<br>142.99<br>54.60<br>121.33<br>5.15<br>-198.63<br>72.80 | 85.66                |
| 05 12 23 00-0219 | LF  |     | W36 x 280 A992/A36 Structural Beam Or Girder .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Steel, Add</i><br><i>For Each Additional Top Copes &gt;2, Add</i><br><i>For Structural Tees, WT, MT Or ST, Deduct</i><br><i>For Skewed Or Sloped Connections, Add</i> | 583.91<br>133.46<br>52.55<br>116.78<br>4.81<br>-188.92<br>70.07 | 96.55                |
| 05 12 23 00-0220 | LF  |     | W36 x 260 A992/A36 Structural Beam Or Girder .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Steel, Add</i><br><i>For Each Additional Top Copes &gt;2, Add</i><br><i>For Structural Tees, WT, MT Or ST, Deduct</i><br><i>For Skewed Or Sloped Connections, Add</i> | 552.73<br>125.16<br>49.75<br>110.55<br>4.51<br>-178.20<br>66.33 | 95.39                |
| 05 12 23 00-0221 | LF  |     | W36 x 240 A992/A36 Structural Beam Or Girder .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Steel, Add</i><br><i>For Each Additional Top Copes &gt;2, Add</i><br><i>For Structural Tees, WT, MT Or ST, Deduct</i><br><i>For Skewed Or Sloped Connections, Add</i> | 516.41<br>118.86<br>46.48<br>103.28<br>4.28<br>-167.53<br>61.97 | 82.56                |
| 05 12 23 00-0222 | LF  |     | W36 x 230 A992/A36 Structural Beam Or Girder .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Steel, Add</i><br><i>For Each Additional Top Copes &gt;2, Add</i><br><i>For Structural Tees, WT, MT Or ST, Deduct</i><br><i>For Skewed Or Sloped Connections, Add</i> | 499.80<br>113.91<br>44.98<br>99.96<br>4.10<br>-161.53<br>59.98  | 83.74                |
| 05 12 23 00-0223 | LF  |     | W36 x 210 A992/A36 Structural Beam Or Girder .....<br><i>For Hot Dip Galvanizing, Add</i><br><i>For High Strength Low Alloy A572-50 Steel, Add</i><br><i>For High Strength Low Alloy A588 Steel, Add</i><br><i>For Each Additional Top Copes &gt;2, Add</i><br><i>For Structural Tees, WT, MT Or ST, Deduct</i><br><i>For Skewed Or Sloped Connections, Add</i> | 473.26<br>104.00<br>42.59<br>94.65<br>3.75<br>-150.87<br>56.79  | 92.30                |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0224 LF W36 x 194 A992/A36 Structural Beam Or Girder ..... | 447.41                    | 80.08                   |
| For Hot Dip Galvanizing, Add   | 100.45                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 40.27                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 89.48                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.62                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -143.78                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 53.69                     |                         |
| 05 12 23 00-0225 LF W36 x 182 A992/A36 Structural Beam Or Girder ..... | 424.40                    | 79.50                   |
| For Hot Dip Galvanizing, Add   | 94.24                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 38.20                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 84.88                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.40                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -135.82                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 50.93                     |                         |
| 05 12 23 00-0226 LF W36 x 170 A992/A36 Structural Beam Or Girder ..... | 401.03                    | 78.58                   |
| For Hot Dip Galvanizing, Add   | 88.03                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 36.09                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 80.21                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.17                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -127.79                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 48.12                     |                         |
| 05 12 23 00-0227 LF W36 x 160 A992/A36 Structural Beam Or Girder ..... | 393.81                    | 89.34                   |
| For Hot Dip Galvanizing, Add   | 82.85                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 35.44                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 78.76                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.99                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -123.54                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 47.26                     |                         |
| 05 12 23 00-0228 LF W36 x 150 A992/A36 Structural Beam Or Girder ..... | 377.53                    | 88.70                   |
| For Hot Dip Galvanizing, Add   | 78.50                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 33.98                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 75.51                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.83                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -117.94                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 45.30                     |                         |
| 05 12 23 00-0229 LF W36 x 135 A992/A36 Structural Beam Or Girder ..... | 354.74                    | 87.93                   |
| For Hot Dip Galvanizing, Add   | 72.44                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 31.93                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 70.95                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.61                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -110.10                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 42.57                     |                         |
| 05 12 23 00-0230 LF W33 x 241 A992/A36 Structural Beam Or Girder ..... | 522.89                    | 85.16                   |
| For Hot Dip Galvanizing, Add   | 119.90                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 47.06                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 104.58                    |                         |
| For Each Additional Top Copes >2, Add                                  | 4.32                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -169.39                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 62.75                     |                         |
| 05 12 23 00-0231 LF W33 x 221 A992/A36 Structural Beam Or Girder ..... | 484.81                    | 83.07                   |
| For Hot Dip Galvanizing, Add   | 109.95                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 43.63                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 96.96                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.96                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -156.39                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 58.18                     |                         |
| 05 12 23 00-0232 LF W33 x 201 A992/A36 Structural Beam Or Girder ..... | 458.19                    | 91.66                   |
| For Hot Dip Galvanizing, Add   | 100.00                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 41.24                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 91.64                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.60                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -145.69                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 54.98                     |                         |
| 05 12 23 00-0233 LF W33 x 170 A992/A36 Structural Beam Or Girder ..... | 411.32                    | 89.99                   |
| For Hot Dip Galvanizing, Add   | 87.53                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 37.02                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 82.26                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.15                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -129.58                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 49.36                     |                         |
| 05 12 23 00-0234 LF W33 x 152 A992/A36 Structural Beam Or Girder ..... | 375.12                    | 78.33                   |
| For Hot Dip Galvanizing, Add   | 80.91                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 33.76                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 75.02                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.92                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -118.76                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 45.01                     |                         |
| 05 12 23 00-0235 LF W33 x 141 A992/A36 Structural Beam Or Girder ..... | 364.56                    | 88.18                   |
| For Hot Dip Galvanizing, Add   | 75.05                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 32.81                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 72.91                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.70                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -113.48                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 43.75                     |                         |



|  |                                 |              |
|--|---------------------------------|--------------|
|  | <b>Metals</b>                   | <b>05</b>    |
|  | <b>Structural Metal Framing</b> | <b>05 10</b> |
|  | <b>Structural Steel Framing</b> | <b>05 12</b> |

05

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0236 LF W33 x 130 A992/A36 Structural Beam Or Girder ..... | 346.15                    | 87.54                   |
| For Hot Dip Galvanizing, Add   | 70.15                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 31.15                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 69.23                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.53                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -107.15                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 41.54                     |                         |
| 05 12 23 00-0237 LF W33 x 118 A992/A36 Structural Beam Or Girder ..... | 324.70                    | 86.76                   |
| For Hot Dip Galvanizing, Add   | 64.42                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 29.22                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 64.94                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.32                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -99.76                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 38.96                     |                         |
| 05 12 23 00-0238 LF W30 x 211 A992/A36 Structural Beam Or Girder ..... | 464.80                    | 82.91                   |
| For Hot Dip Galvanizing, Add   | 104.44                    |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 41.83                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 92.96                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.76                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -149.41                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 55.78                     |                         |
| 05 12 23 00-0239 LF W30 x 191 A992/A36 Structural Beam Or Girder ..... | 437.89                    | 91.01                   |
| For Hot Dip Galvanizing, Add   | 94.54                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 39.41                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 87.58                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.41                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -138.68                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 52.55                     |                         |
| 05 12 23 00-0240 LF W30 x 173 A992/A36 Structural Beam Or Girder ..... | 402.43                    | 79.13                   |
| For Hot Dip Galvanizing, Add   | 88.25                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 36.22                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 80.49                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.18                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -128.19                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 48.29                     |                         |
| 05 12 23 00-0241 LF W30 x 154 A992/A36 Structural Beam Or Girder ..... | 377.85                    | 88.83                   |
| For Hot Dip Galvanizing, Add   | 78.56                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 34.01                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 75.57                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.83                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -118.04                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 45.34                     |                         |
| 05 12 23 00-0242 LF W30 x 132 A992/A36 Structural Beam Or Girder ..... | 338.06                    | 76.34                   |
| For Hot Dip Galvanizing, Add   | 71.21                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 30.43                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 67.61                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.57                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -106.11                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 40.57                     |                         |
| 05 12 23 00-0243 LF W30 x 124 A992/A36 Structural Beam Or Girder ..... | 322.46                    | 76.30                   |
| For Hot Dip Galvanizing, Add   | 66.90                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 29.02                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 64.49                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.41                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -100.65                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 38.70                     |                         |
| 05 12 23 00-0244 LF W30 x 116 A992/A36 Structural Beam Or Girder ..... | 317.95                    | 86.64                   |
| For Hot Dip Galvanizing, Add   | 62.58                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 28.62                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 63.59                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.26                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -97.42                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 38.15                     |                         |
| 05 12 23 00-0245 LF W30 x 108 A992/A36 Structural Beam Or Girder ..... | 294.23                    | 78.02                   |
| For Hot Dip Galvanizing, Add   | 58.57                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 26.48                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 58.85                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.11                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -90.51                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 35.31                     |                         |
| 05 12 23 00-0246 LF W30 x 99 A992/A36 Structural Beam Or Girder .....  | 281.08                    | 77.63                   |
| For Hot Dip Galvanizing, Add   | 55.06                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 25.30                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 56.22                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.98                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -85.98                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 33.73                     |                         |
| 05 12 23 00-0247 LF W27 x 178 A992/A36 Structural Beam Or Girder ..... | 447.22                    | 92.65                   |
| For Hot Dip Galvanizing, Add   | 96.68                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 40.25                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 89.44                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.48                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -141.70                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 53.67                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0248 LF W27 x 161 A992/A36 Structural Beam Or Girder ..... | 410.21                    | 89.16                   |
| For Hot Dip Galvanizing, Add   | 87.44                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 36.92                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 82.04                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.15                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -129.31                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 49.23                     |                         |
| 05 12 23 00-0249 LF W27 x 146 A992/A36 Structural Beam Or Girder ..... | 377.48                    | 86.00                   |
| For Hot Dip Galvanizing, Add   | 79.30                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 33.97                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 75.50                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.86                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -118.36                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 45.30                     |                         |
| 05 12 23 00-0250 LF W27 x 114 A992/A36 Structural Beam Or Girder ..... | 299.32                    | 71.44                   |
| For Hot Dip Galvanizing, Add   | 61.92                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 26.94                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 59.86                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.23                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -93.33                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 35.92                     |                         |
| 05 12 23 00-0251 LF W27 x 102 A992/A36 Structural Beam Or Girder ..... | 282.42                    | 77.63                   |
| For Hot Dip Galvanizing, Add   | 55.40                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 25.42                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 56.48                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.00                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -86.43                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 33.89                     |                         |
| 05 12 23 00-0252 LF W27 x 94 A992/A36 Structural Beam Or Girder .....  | 270.06                    | 77.12                   |
| For Hot Dip Galvanizing, Add   | 52.11                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 24.31                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 54.01                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.88                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -82.18                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 32.41                     |                         |
| 05 12 23 00-0253 LF W27 x 84 A992/A36 Structural Beam Or Girder .....  | 254.97                    | 76.59                   |
| For Hot Dip Galvanizing, Add   | 48.10                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 22.95                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 50.99                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.73                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -77.00                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 30.60                     |                         |
| 05 12 23 00-0254 LF W24 x 162 A992/A36 Structural Beam Or Girder ..... | 395.11                    | 85.47                   |
| For Hot Dip Galvanizing, Add   | 84.34                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 35.56                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 79.02                     |                         |
| For Each Additional Top Copes >2, Add                                  | 3.04                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -124.61                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 47.41                     |                         |
| 05 12 23 00-0255 LF W24 x 146 A992/A36 Structural Beam Or Girder ..... | 361.33                    | 81.94                   |
| For Hot Dip Galvanizing, Add   | 76.01                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 32.52                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 72.27                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.74                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -113.35                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 43.36                     |                         |
| 05 12 23 00-0256 LF W24 x 131 A992/A36 Structural Beam Or Girder ..... | 329.22                    | 78.22                   |
| For Hot Dip Galvanizing, Add   | 68.20                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 29.63                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 65.84                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.46                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -102.71                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 39.51                     |                         |
| 05 12 23 00-0257 LF W24 x 117 A992/A36 Structural Beam Or Girder ..... | 298.79                    | 74.32                   |
| For Hot Dip Galvanizing, Add   | 60.92                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 26.89                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 59.76                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.20                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -92.69                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 35.85                     |                         |
| 05 12 23 00-0258 LF W24 x 104 A992/A36 Structural Beam Or Girder ..... | 270.08                    | 70.28                   |
| For Hot Dip Galvanizing, Add   | 54.15                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 24.31                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 54.02                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.95                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -83.28                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 32.41                     |                         |
| 05 12 23 00-0259 LF W24 x 94 A992/A36 Structural Beam Or Girder .....  | 258.62                    | 77.12                   |
| For Hot Dip Galvanizing, Add   | 48.94                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 23.28                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 51.72                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.76                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -78.18                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 31.03                     |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0260 LF W24 x 84 A992/A36 Structural Beam Or Girder .....  | 235.91                    | 68.36                   |
| For Hot Dip Galvanizing, Add   | 45.21                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 21.23                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 47.18                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.63                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -71.62                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 28.31                     |                         |
| 05 12 23 00-0261 LF W24 x 76 A992/A36 Structural Beam Or Girder .....  | 224.36                    | 67.84                   |
| For Hot Dip Galvanizing, Add   | 42.15                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 20.19                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 44.87                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.52                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -67.65                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 26.92                     |                         |
| 05 12 23 00-0262 LF W24 x 68 A992/A36 Structural Beam Or Girder .....  | 209.80                    | 67.46                   |
| For Hot Dip Galvanizing, Add   | 38.25                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 18.88                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 41.96                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.38                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -62.64                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 25.18                     |                         |
| 05 12 23 00-0263 LF W24 x 62 A992/A36 Structural Beam Or Girder .....  | 202.20                    | 67.07                   |
| For Hot Dip Galvanizing, Add   | 36.25                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 18.20                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 40.44                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.31                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -60.03                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 24.26                     |                         |
| 05 12 23 00-0264 LF W24 x 55 A992/A36 Structural Beam Or Girder .....  | 191.77                    | 66.81                   |
| For Hot Dip Galvanizing, Add   | 33.46                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 17.26                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 38.35                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.21                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -56.44                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 23.01                     |                         |
| 05 12 23 00-0265 LF W21 x 147 A992/A36 Structural Beam Or Girder ..... | 345.83                    | 70.29                   |
| For Hot Dip Galvanizing, Add   | 75.16                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 31.12                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 69.17                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.71                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -109.79                   |                         |
| For Skewed Or Sloped Connections, Add                                  | 41.50                     |                         |
| 05 12 23 00-0266 LF W21 x 132 A992/A36 Structural Beam Or Girder ..... | 314.83                    | 67.15                   |
| For Hot Dip Galvanizing, Add   | 67.49                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 28.33                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 62.97                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.43                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -99.45                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 37.78                     |                         |
| 05 12 23 00-0267 LF W21 x 122 A992/A36 Structural Beam Or Girder ..... | 295.20                    | 66.02                   |
| For Hot Dip Galvanizing, Add   | 62.38                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 26.57                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 59.04                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.25                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -92.76                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 35.42                     |                         |
| 05 12 23 00-0268 LF W21 x 111 A992/A36 Structural Beam Or Girder ..... | 272.68                    | 63.91                   |
| For Hot Dip Galvanizing, Add   | 56.75                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 24.54                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 54.54                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.05                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -85.21                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 32.72                     |                         |
| 05 12 23 00-0269 LF W21 x 101 A992/A36 Structural Beam Or Girder ..... | 252.07                    | 61.86                   |
| For Hot Dip Galvanizing, Add   | 51.64                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 22.69                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 50.41                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.86                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -78.33                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 30.25                     |                         |
| 05 12 23 00-0270 LF W21 x 93 A992/A36 Structural Beam Or Girder .....  | 245.11                    | 69.13                   |
| For Hot Dip Galvanizing, Add   | 47.55                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 22.06                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 49.02                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.71                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -74.72                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 29.41                     |                         |
| 05 12 23 00-0271 LF W21 x 83 A992/A36 Structural Beam Or Girder .....  | 231.50                    | 68.36                   |
| For Hot Dip Galvanizing, Add   | 43.99                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 20.84                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 46.30                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.59                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -70.08                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 27.78                     |                         |



## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0272 LF W21 x 73 A992/A36 Structural Beam Or Girder .....  | 214.79                    | 67.84                   |
| For Hot Dip Galvanizing, Add   | 39.53                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 19.33                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 42.96                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.42                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -64.33                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 25.77                     |                         |
| 05 12 23 00-0273 LF W21 x 68 A992/A36 Structural Beam Or Girder .....  | 206.39                    | 67.46                   |
| For Hot Dip Galvanizing, Add   | 37.30                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 18.58                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 41.28                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.34                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -61.44                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 24.77                     |                         |
| 05 12 23 00-0274 LF W21 x 62 A992/A36 Structural Beam Or Girder .....  | 198.79                    | 67.07                   |
| For Hot Dip Galvanizing, Add   | 35.30                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 17.89                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 39.76                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.27                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -58.84                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 23.85                     |                         |
| 05 12 23 00-0275 LF W21 x 57 A992/A36 Structural Beam Or Girder .....  | 191.90                    | 66.94                   |
| For Hot Dip Galvanizing, Add   | 33.46                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 17.27                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 38.38                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.21                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -56.47                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 23.03                     |                         |
| 05 12 23 00-0276 LF W21 x 50 A992/A36 Structural Beam Or Girder .....  | 170.18                    | 58.06                   |
| For Hot Dip Galvanizing, Add   | 30.01                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 15.32                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 34.04                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.08                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -50.26                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 20.42                     |                         |
| 05 12 23 00-0277 LF W21 x 44 A992/A36 Structural Beam Or Girder .....  | 162.18                    | 57.80                   |
| For Hot Dip Galvanizing, Add   | 27.89                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 14.60                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 32.44                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.01                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -47.51                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 19.46                     |                         |
| 05 12 23 00-0278 LF W18 x 119 A992/A36 Structural Beam Or Girder ..... | 287.04                    | 65.80                   |
| For Hot Dip Galvanizing, Add   | 60.18                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 25.83                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 57.41                     |                         |
| For Each Additional Top Copes >2, Add                                  | 2.17                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -89.94                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 34.44                     |                         |
| 05 12 23 00-0279 LF W18 x 106 A992/A36 Structural Beam Or Girder ..... | 259.67                    | 62.35                   |
| For Hot Dip Galvanizing, Add   | 53.60                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 23.37                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 51.93                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.93                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -80.91                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 31.16                     |                         |
| 05 12 23 00-0280 LF W18 x 97 A992/A36 Structural Beam Or Girder .....  | 250.65                    | 69.13                   |
| For Hot Dip Galvanizing, Add   | 49.05                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 22.56                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 50.13                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.77                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -76.64                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 30.08                     |                         |
| 05 12 23 00-0281 LF W18 x 86 A992/A36 Structural Beam Or Girder .....  | 235.04                    | 68.48                   |
| For Hot Dip Galvanizing, Add   | 44.93                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 21.15                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 47.01                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.62                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -71.30                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 28.20                     |                         |
| 05 12 23 00-0282 LF W18 x 76 A992/A36 Structural Beam Or Girder .....  | 220.95                    | 67.84                   |
| For Hot Dip Galvanizing, Add   | 41.20                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 19.89                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 44.19                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.48                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -66.46                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 26.51                     |                         |
| 05 12 23 00-0283 LF W18 x 71 A992/A36 Structural Beam Or Girder .....  | 210.66                    | 67.72                   |
| For Hot Dip Galvanizing, Add   | 38.42                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 18.96                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 42.13                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.38                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -62.90                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 25.28                     |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0284 LF W18 x 65 A992/A36 Structural Beam Or Girder .....  | 200.64                    | 67.46                   |
| For Hot Dip Galvanizing, Add   | 35.74                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 18.06                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 40.13                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.29                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -59.45                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 24.08                     |                         |
| 05 12 23 00-0285 LF W18 x 60 A992/A36 Structural Beam Or Girder .....  | 191.62                    | 66.94                   |
| For Hot Dip Galvanizing, Add   | 33.35                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 17.25                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 38.32                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.20                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -56.35                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 22.99                     |                         |
| 05 12 23 00-0286 LF W18 x 55 A992/A36 Structural Beam Or Girder .....  | 182.54                    | 66.81                   |
| For Hot Dip Galvanizing, Add   | 30.90                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 16.43                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 36.51                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.11                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -53.21                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 21.90                     |                         |
| 05 12 23 00-0287 LF W18 x 50 A992/A36 Structural Beam Or Girder .....  | 164.57                    | 58.06                   |
| For Hot Dip Galvanizing, Add   | 28.45                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 14.81                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 32.91                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.03                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -48.29                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 19.75                     |                         |
| 05 12 23 00-0288 LF W18 x 46 A992/A36 Structural Beam Or Girder .....  | 157.50                    | 57.93                   |
| For Hot Dip Galvanizing, Add   | 26.56                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 14.18                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 31.50                     |                         |
| For Each Additional Top Copes >2, Add                                  | 0.96                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -45.86                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 18.90                     |                         |
| 05 12 23 00-0289 LF W18 x 40 A992/A36 Structural Beam Or Girder .....  | 137.85                    | 49.44                   |
| For Hot Dip Galvanizing, Add   | 23.61                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 12.41                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 27.57                     |                         |
| For Each Additional Top Copes >2, Add                                  | 0.85                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -40.33                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 16.54                     |                         |
| 05 12 23 00-0290 LF W18 x 35 A992/A36 Structural Beam Or Girder .....  | 128.96                    | 49.30                   |
| For Hot Dip Galvanizing, Add   | 21.21                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 11.61                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 25.79                     |                         |
| For Each Additional Top Copes >2, Add                                  | 0.76                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -37.26                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 15.48                     |                         |
| 05 12 23 00-0291 LF W16 x 100 A992/A36 Structural Beam Or Girder ..... | 237.90                    | 44.93                   |
| For Hot Dip Galvanizing, Add   | 52.73                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 21.41                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 47.58                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.90                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -76.08                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 28.55                     |                         |
| 05 12 23 00-0292 LF W16 x 89 A992/A36 Structural Beam Or Girder .....  | 217.85                    | 44.15                   |
| For Hot Dip Galvanizing, Add   | 47.38                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 19.61                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 43.57                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.71                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -69.18                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 26.14                     |                         |
| 05 12 23 00-0293 LF W16 x 77 A992/A36 Structural Beam Or Girder .....  | 196.35                    | 43.64                   |
| For Hot Dip Galvanizing, Add   | 41.59                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 17.67                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 39.27                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.50                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -61.75                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 23.56                     |                         |
| 05 12 23 00-0294 LF W16 x 67 A992/A36 Structural Beam Or Girder .....  | 178.05                    | 43.00                   |
| For Hot Dip Galvanizing, Add   | 36.69                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 16.02                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 35.61                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.32                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -55.44                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 21.37                     |                         |
| 05 12 23 00-0295 LF W16 x 57 A992/A36 Structural Beam Or Girder .....  | 159.96                    | 42.35                   |
| For Hot Dip Galvanizing, Add   | 31.85                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                         | 14.40                     |                         |
| For High Strength Low Alloy A588 Steel, Add                            | 31.99                     |                         |
| For Each Additional Top Copes >2, Add                                  | 1.15                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                              | -49.21                    |                         |
| For Skewed Or Sloped Connections, Add                                  | 19.20                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0296 LF W16 x 50 A992/A36 Structural Beam Or Girder ..... | 147.33                    | 41.96                   |
| For Hot Dip Galvanizing, Add  | 28.45                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 13.26                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 29.47                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.03                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -44.85                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 17.68                     |                         |
| 05 12 23 00-0297 LF W16 x 45 A992/A36 Structural Beam Or Girder ..... | 138.44                    | 41.71                   |
| For Hot Dip Galvanizing, Add  | 26.06                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 12.46                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 27.69                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.94                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -41.77                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 16.61                     |                         |
| 05 12 23 00-0298 LF W16 x 40 A992/A36 Structural Beam Or Girder ..... | 129.22                    | 41.33                   |
| For Hot Dip Galvanizing, Add  | 23.61                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 11.63                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 25.84                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.85                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -38.60                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 15.51                     |                         |
| 05 12 23 00-0299 LF W16 x 36 A992/A36 Structural Beam Or Girder ..... | 122.01                    | 41.06                   |
| For Hot Dip Galvanizing, Add  | 21.71                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 10.98                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 24.40                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.78                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -36.14                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 14.64                     |                         |
| 05 12 23 00-0300 LF W16 x 31 A992/A36 Structural Beam Or Girder ..... | 104.31                    | 32.70                   |
| For Hot Dip Galvanizing, Add  | 19.26                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 9.39                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 20.86                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.69                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -31.28                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 12.52                     |                         |
| 05 12 23 00-0301 LF W16 x 26 A992/A36 Structural Beam Or Girder ..... | 92.71                     | 32.32                   |
| For Hot Dip Galvanizing, Add  | 16.15                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 8.34                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 18.54                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.58                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -27.27                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 11.13                     |                         |
| 05 12 23 00-0302 LF W14 x 99 A992/A36 Structural Beam Or Girder ..... | 227.46                    | 36.82                   |
| For Hot Dip Galvanizing, Add  | 52.23                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 20.47                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 45.49                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.88                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -73.72                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 27.30                     |                         |
| 05 12 23 00-0303 LF W14 x 90 A992/A36 Structural Beam Or Girder ..... | 211.16                    | 36.18                   |
| For Hot Dip Galvanizing, Add  | 47.88                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 19.00                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 42.23                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.73                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -68.11                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 25.34                     |                         |
| 05 12 23 00-0304 LF W14 x 82 A992/A36 Structural Beam Or Girder ..... | 196.61                    | 35.79                   |
| For Hot Dip Galvanizing, Add  | 43.99                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 17.69                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 39.32                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.59                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -63.10                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 23.59                     |                         |
| 05 12 23 00-0305 LF W14 x 74 A992/A36 Structural Beam Or Girder ..... | 182.06                    | 35.28                   |
| For Hot Dip Galvanizing, Add  | 40.09                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 16.39                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 36.41                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.44                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -58.08                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 21.85                     |                         |
| 05 12 23 00-0306 LF W14 x 68 A992/A36 Structural Beam Or Girder ..... | 171.23                    | 34.89                   |
| For Hot Dip Galvanizing, Add  | 37.19                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 15.41                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 34.25                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.34                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -54.35                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 20.55                     |                         |
| 05 12 23 00-0307 LF W14 x 61 A992/A36 Structural Beam Or Girder ..... | 158.61                    | 34.50                   |
| For Hot Dip Galvanizing, Add  | 33.80                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 14.27                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 31.72                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.22                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -49.99                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 19.03                     |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0308 LF W14 x 53 A992/A36 Structural Beam Or Girder ..... | 144.24                    | 33.99                   |
| For Hot Dip Galvanizing, Add  | 29.95                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 12.98                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 28.85                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.08                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -45.04                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 17.31                     |                         |
| 05 12 23 00-0309 LF W14 x 48 A992/A36 Structural Beam Or Girder ..... | 135.04                    | 33.60                   |
| For Hot Dip Galvanizing, Add  | 27.51                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 12.15                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 27.01                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.99                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -41.88                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 16.20                     |                         |
| 05 12 23 00-0310 LF W14 x 43 A992/A36 Structural Beam Or Girder ..... | 125.94                    | 33.47                   |
| For Hot Dip Galvanizing, Add  | 25.06                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 11.33                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 25.19                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.90                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -38.73                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 15.11                     |                         |
| 05 12 23 00-0311 LF W14 x 38 A992/A36 Structural Beam Or Girder ..... | 116.94                    | 33.22                   |
| For Hot Dip Galvanizing, Add  | 22.66                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 10.52                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 23.39                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.82                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -35.64                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 14.03                     |                         |
| 05 12 23 00-0312 LF W14 x 34 A992/A36 Structural Beam Or Girder ..... | 109.66                    | 32.83                   |
| For Hot Dip Galvanizing, Add  | 20.71                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 9.87                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 21.93                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.75                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -33.13                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 13.16                     |                         |
| 05 12 23 00-0313 LF W14 x 30 A992/A36 Structural Beam Or Girder ..... | 102.37                    | 32.70                   |
| For Hot Dip Galvanizing, Add  | 18.76                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 9.21                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 20.47                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.68                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -30.62                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 12.28                     |                         |
| 05 12 23 00-0314 LF W14 x 26 A992/A36 Structural Beam Or Girder ..... | 95.09                     | 32.32                   |
| For Hot Dip Galvanizing, Add  | 16.81                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 8.56                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 19.02                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.61                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -28.11                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 11.41                     |                         |
| 05 12 23 00-0315 LF W14 x 22 A992/A36 Structural Beam Or Girder ..... | 88.01                     | 32.18                   |
| For Hot Dip Galvanizing, Add  | 14.92                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 7.92                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 17.60                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.54                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -25.67                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 10.56                     |                         |
| 05 12 23 00-0316 LF W12 x 87 A992/A36 Structural Beam Or Girder ..... | 205.82                    | 36.04                   |
| For Hot Dip Galvanizing, Add  | 46.43                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 18.52                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 41.16                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.67                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -66.26                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 24.70                     |                         |
| 05 12 23 00-0317 LF W12 x 79 A992/A36 Structural Beam Or Girder ..... | 191.27                    | 35.53                   |
| For Hot Dip Galvanizing, Add  | 42.54                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 17.21                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 38.25                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.53                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -61.25                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 22.95                     |                         |
| 05 12 23 00-0318 LF W12 x 72 A992/A36 Structural Beam Or Girder ..... | 178.51                    | 35.14                   |
| For Hot Dip Galvanizing, Add  | 39.14                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 16.07                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 35.70                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.41                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -56.86                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 21.42                     |                         |
| 05 12 23 00-0319 LF W12 x 65 A992/A36 Structural Beam Or Girder ..... | 165.89                    | 34.75                   |
| For Hot Dip Galvanizing, Add  | 35.74                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 14.93                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 33.18                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.29                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -52.50                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 19.91                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0320 | LF  |     | W12 x 58 A992/A36 Structural Beam Or Girder .....     | 153.13                 | 34.24                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 32.35                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 13.78                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 30.63                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 1.17                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -48.11                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 18.38                  |                      |
| 05 12 23 00-0321 | LF  |     | W12 x 53 A992/A36 Structural Beam Or Girder .....     | 144.24                 | 33.99                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 29.95                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 12.98                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 28.85                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 1.08                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -45.04                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 17.31                  |                      |
| 05 12 23 00-0322 | LF  |     | W12 x 50 A992/A36 Structural Beam Or Girder .....     | 138.57                 | 33.85                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 28.45                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 12.47                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 27.71                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 1.03                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -43.09                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 16.63                  |                      |
| 05 12 23 00-0323 | LF  |     | W12 x 45 A992/A36 Structural Beam Or Girder .....     | 129.69                 | 33.60                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 26.06                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 11.67                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 25.94                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.94                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -40.02                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 15.56                  |                      |
| 05 12 23 00-0324 | LF  |     | W12 x 40 A992/A36 Structural Beam Or Girder .....     | 111.71                 | 24.97                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 23.61                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 10.05                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 22.34                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.85                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -35.10                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 13.41                  |                      |
| 05 12 23 00-0325 | LF  |     | W12 x 35 A992/A36 Structural Beam Or Girder .....     | 102.83                 | 24.84                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 21.21                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 9.25                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 20.57                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.76                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -32.03                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 12.34                  |                      |
| 05 12 23 00-0326 | LF  |     | W12 x 30 A992/A36 Structural Beam Or Girder .....     | 93.63                  | 24.46                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 18.76                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 8.43                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 18.73                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.68                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -28.87                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 11.24                  |                      |
| 05 12 23 00-0327 | LF  |     | W12 x 26 A992/A36 Structural Beam Or Girder .....     | 86.33                  | 24.21                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 16.81                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 7.77                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 17.27                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.61                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -26.35                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 10.36                  |                      |
| 05 12 23 00-0328 | LF  |     | W12 x 22 A992/A36 Structural Beam Or Girder .....     | 79.26                  | 23.94                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 14.92                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 7.13                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 15.85                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.54                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -23.92                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 9.51                   |                      |
| 05 12 23 00-0329 | LF  |     | W12 x 19 A992/A36 Structural Beam Or Girder .....     | 73.71                  | 23.82                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 13.42                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 6.63                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 14.74                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.48                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -21.99                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 8.85                   |                      |
| 05 12 23 00-0330 | LF  |     | W12 x 16 A992/A36 Structural Beam Or Girder .....     | 68.24                  | 23.43                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 11.97                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 6.14                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 13.65                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.43                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -20.12                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 8.19                   |                      |
| 05 12 23 00-0331 | LF  |     | W12 x 14 A992/A36 Structural Beam Or Girder .....     | 64.70                  | 23.43                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                   | 11.03                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i> | 5.82                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>    | 12.94                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>       | 0.40                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>      | -18.90                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>          | 7.76                   |                      |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0332 LF W10 x 68 A992/A36 Structural Beam Or Girder ..... | 163.01                    | 26.91                   |
| For Hot Dip Galvanizing, Add  | 37.30                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 14.67                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 32.60                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.34                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -52.77                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 19.56                     |                         |
| 05 12 23 00-0333 LF W10 x 60 A992/A36 Structural Beam Or Girder ..... | 148.65                    | 26.39                   |
| For Hot Dip Galvanizing, Add  | 33.46                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 13.38                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 29.73                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.21                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -47.82                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 17.84                     |                         |
| 05 12 23 00-0334 LF W10 x 54 A992/A36 Structural Beam Or Girder ..... | 137.63                    | 25.88                   |
| For Hot Dip Galvanizing, Add  | 30.51                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 12.39                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 27.53                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.10                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -44.02                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 16.52                     |                         |
| 05 12 23 00-0335 LF W10 x 49 A992/A36 Structural Beam Or Girder ..... | 128.61                    | 25.62                   |
| For Hot Dip Galvanizing, Add  | 28.12                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 11.57                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 25.72                     |                         |
| For Each Additional Top Copes >2, Add                                 | 1.01                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -40.92                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 15.43                     |                         |
| 05 12 23 00-0336 LF W10 x 45 A992/A36 Structural Beam Or Girder ..... | 121.33                    | 25.49                   |
| For Hot Dip Galvanizing, Add  | 26.17                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 10.92                     |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 24.27                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.94                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -38.41                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 14.56                     |                         |
| 05 12 23 00-0337 LF W10 x 39 A992/A36 Structural Beam Or Girder ..... | 110.51                    | 24.97                   |
| For Hot Dip Galvanizing, Add  | 23.27                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 9.95                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 22.10                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.84                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -34.68                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 13.26                     |                         |
| 05 12 23 00-0338 LF W10 x 33 A992/A36 Structural Beam Or Girder ..... | 99.69                     | 24.59                   |
| For Hot Dip Galvanizing, Add  | 20.38                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 8.97                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 19.94                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.73                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -30.95                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 11.96                     |                         |
| 05 12 23 00-0339 LF W10 x 30 A992/A36 Structural Beam Or Girder ..... | 94.15                     | 24.46                   |
| For Hot Dip Galvanizing, Add  | 18.88                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 8.47                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 18.83                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.68                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -29.03                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 11.30                     |                         |
| 05 12 23 00-0340 LF W10 x 26 A992/A36 Structural Beam Or Girder ..... | 87.08                     | 24.33                   |
| For Hot Dip Galvanizing, Add  | 16.98                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 7.84                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 17.42                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.61                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -26.60                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 10.45                     |                         |
| 05 12 23 00-0341 LF W10 x 22 A992/A36 Structural Beam Or Girder ..... | 79.66                     | 23.94                   |
| For Hot Dip Galvanizing, Add  | 15.03                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 7.17                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 15.93                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.54                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -24.06                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 9.56                      |                         |
| 05 12 23 00-0342 LF W10 x 19 A992/A36 Structural Beam Or Girder ..... | 74.32                     | 23.82                   |
| For Hot Dip Galvanizing, Add  | 13.59                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 6.69                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 14.86                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.49                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -22.21                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 8.92                      |                         |
| 05 12 23 00-0343 LF W10 x 17 A992/A36 Structural Beam Or Girder ..... | 70.57                     | 23.68                   |
| For Hot Dip Galvanizing, Add  | 12.58                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                        | 6.35                      |                         |
| For High Strength Low Alloy A588 Steel, Add                           | 14.11                     |                         |
| For Each Additional Top Copes >2, Add                                 | 0.45                      |                         |
| For Structural Tees, WT, MT Or ST, Deduct                             | -20.92                    |                         |
| For Skewed Or Sloped Connections, Add                                 | 8.47                      |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0344 | LF  |     | W10 x 15 A992/A36 Structural Beam Or Girder .....             | 67.04                  | 23.43                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 11.64                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 6.03                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 13.41                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.42                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -19.70                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 8.04                   |                      |
| 05 12 23 00-0345 | LF  |     | W10 x 12 A992/A36 Structural Beam Or Girder .....             | 61.69                  | 23.43                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 10.19                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 5.55                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 12.34                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.37                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -17.85                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 7.40                   |                      |
| 05 12 23 00-0346 | LF  |     | W8 x 35 A992/A36 Structural Beam Or Girder .....              | 103.23                 | 24.84                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 21.32                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 9.29                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 20.65                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.77                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -32.17                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 12.39                  |                      |
| 05 12 23 00-0347 | LF  |     | W8 x 31 A992/A36 Structural Beam Or Girder .....              | 95.95                  | 24.46                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 19.38                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 8.64                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 19.19                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.70                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -29.66                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 11.51                  |                      |
| 05 12 23 00-0348 | LF  |     | W8 x 28 A992/A36 Structural Beam Or Girder .....              | 94.37                  | 23.04                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 19.36                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 8.49                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 18.87                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.70                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -29.34                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 11.32                  |                      |
| 05 12 23 00-0349 | LF  |     | W8 x 24 A992/A36 Structural Beam Or Girder .....              | 85.91                  | 21.63                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 17.45                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 7.73                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 17.18                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.63                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -26.61                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 10.31                  |                      |
| 05 12 23 00-0350 | LF  |     | W8 x 21 A992/A36 Structural Beam Or Girder .....              | 79.94                  | 20.08                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 16.22                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 7.19                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 15.99                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.58                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -24.75                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 9.59                   |                      |
| 05 12 23 00-0351 | LF  |     | W8 x 18 A992/A36 Structural Beam Or Girder .....              | 69.72                  | 18.67                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 13.81                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 6.27                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 13.94                  |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.50                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -21.41                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 8.37                   |                      |
| 05 12 23 00-0352 | LF  |     | W8 x 10 A992/A36 Structural Beam Or Girder .....              | 38.76                  | 13.38                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 6.83                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 3.49                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 7.75                   |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.25                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -11.44                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 4.65                   |                      |
| 05 12 23 00-0353 | LF  |     | W6 x 9 A992/A36 Structural Beam Or Girder .....               | 35.86                  | 10.95                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 6.74                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 3.23                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Steel, Add</i>            | 7.17                   |                      |
|                  |     |     | <i>For Each Additional Top Copes &gt;2, Add</i>               | 0.24                   |                      |
|                  |     |     | <i>For Structural Tees, WT, MT Or ST, Deduct</i>              | -10.81                 |                      |
|                  |     |     | <i>For Skewed Or Sloped Connections, Add</i>                  | 4.30                   |                      |
| 05 12 23 00-0354 |     |     | <b>A992/A36 Structural Steel, M Shapes</b> (05 12 23 00-0136) |                        |                      |
|                  |     |     | Note: Includes material delivery and erection.                |                        |                      |
| 05 12 23 00-0355 | LF  |     | M14 x 18 A992/A36 Structural Steel .....                      | 69.01                  | 17.33                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 14.02                  |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 6.21                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>    | 13.80                  |                      |
| 05 12 23 00-0356 | LF  |     | M12 x 11.8 A992/A36 Structural Steel .....                    | 49.47                  | 15.33                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 9.19                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 4.45                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>    | 9.89                   |                      |
| 05 12 23 00-0357 | LF  |     | M10 x 9 A992/A36 Structural Steel .....                       | 38.38                  | 12.31                |
|                  |     |     | <i>For Hot Dip Galvanizing, Add</i>                           | 7.01                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A572-50 Steel, Add</i>         | 3.45                   |                      |
|                  |     |     | <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>    | 7.68                   |                      |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0358 LF M8 x 6.5 A992/A36 Structural Steel.....                                   | 27.73                     | 8.89                    |
| For Hot Dip Galvanizing, Add  | 5.06                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 2.50                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 5.55                      |                         |
| 05 12 23 00-0359 LF M6 x 20 A992/A36 Structural Steel.....                                    | 78.02                     | 20.73                   |
| For Hot Dip Galvanizing, Add  | 15.58                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 7.02                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 15.60                     |                         |
| 05 12 23 00-0360 LF M6 x 4.4 A992/A36 Structural Steel.....                                   | 18.75                     | 6.01                    |
| For Hot Dip Galvanizing, Add  | 3.42                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 1.69                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 3.75                      |                         |
| 05 12 23 00-0361 LF M5 x 18.9 A992/A36 Structural Steel.....                                  | 75.10                     | 20.73                   |
| For Hot Dip Galvanizing, Add  | 14.70                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 6.76                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 15.02                     |                         |
| 05 12 23 00-0362 LF M4 x 13 A992/A36 Structural Steel.....                                    | 61.56                     | 20.34                   |
| For Hot Dip Galvanizing, Add  | 11.08                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 5.54                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 12.31                     |                         |
| <b>05 12 23 00-0363 A992/A36 Structural Steel, S Shapes</b> <small>(05 12 23 00-0136)</small> |                           |                         |
| Note: Includes material delivery and erection.  |                           |                         |
| 05 12 23 00-0364 LF S24 x 121 A992/A36 Structural Steel .....                                 | 415.34                    | 87.81                   |
| For Hot Dip Galvanizing, Add  | 89.28                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 37.38                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 83.07                     |                         |
| 05 12 23 00-0365 LF S24 x 106 A992/A36 Structural Steel .....                                 | 368.18                    | 80.98                   |
| For Hot Dip Galvanizing, Add  | 78.21                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 33.14                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 73.64                     |                         |
| 05 12 23 00-0366 LF S24 x 100 A992/A36 Structural Steel .....                                 | 351.62                    | 80.41                   |
| For Hot Dip Galvanizing, Add  | 73.78                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 31.65                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 70.32                     |                         |
| 05 12 23 00-0367 LF S24 x 90 A992/A36 Structural Steel .....                                  | 320.52                    | 76.18                   |
| For Hot Dip Galvanizing, Add  | 66.41                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 28.85                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 64.10                     |                         |
| 05 12 23 00-0368 LF S24 x 80 A992/A36 Structural Steel .....                                  | 288.69                    | 71.28                   |
| For Hot Dip Galvanizing, Add  | 59.03                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 25.98                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 57.74                     |                         |
| 05 12 23 00-0369 LF S20 x 96 A992/A36 Structural Steel .....                                  | 337.56                    | 77.19                   |
| For Hot Dip Galvanizing, Add  | 70.83                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 30.38                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 67.51                     |                         |
| 05 12 23 00-0370 LF S20 x 86 A992/A36 Structural Steel .....                                  | 306.27                    | 72.79                   |
| For Hot Dip Galvanizing, Add  | 63.45                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 27.56                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 61.25                     |                         |
| 05 12 23 00-0371 LF S20 x 75 A992/A36 Structural Steel .....                                  | 270.66                    | 66.83                   |
| For Hot Dip Galvanizing, Add  | 55.34                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 24.36                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 54.13                     |                         |
| 05 12 23 00-0372 LF S20 x 66 A992/A36 Structural Steel .....                                  | 241.48                    | 61.90                   |
| For Hot Dip Galvanizing, Add  | 48.70                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 21.73                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 48.30                     |                         |
| 05 12 23 00-0373 LF S18 x 70 A992/A36 Structural Steel .....                                  | 256.12                    | 65.66                   |
| For Hot Dip Galvanizing, Add  | 51.65                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 23.05                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 51.22                     |                         |
| 05 12 23 00-0374 LF S18 x 54.7 A992/A36 Structural Steel .....                                | 203.02                    | 54.01                   |
| For Hot Dip Galvanizing, Add  | 40.36                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 18.27                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 40.60                     |                         |
| 05 12 23 00-0375 LF S15 x 50 A992/A36 Structural Steel .....                                  | 188.34                    | 51.96                   |
| For Hot Dip Galvanizing, Add  | 36.89                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 16.95                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 37.67                     |                         |
| 05 12 23 00-0376 LF S15 x 42.9 A992/A36 Structural Steel .....                                | 164.10                    | 46.92                   |
| For Hot Dip Galvanizing, Add  | 31.65                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 14.77                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 32.82                     |                         |
| 05 12 23 00-0377 LF S12 x 50 A992/A36 Structural Steel .....                                  | 185.57                    | 49.36                   |
| For Hot Dip Galvanizing, Add  | 36.89                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 16.70                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 37.11                     |                         |
| 05 12 23 00-0378 LF S12 x 40.8 A992/A36 Structural Steel .....                                | 153.68                    | 42.40                   |
| For Hot Dip Galvanizing, Add  | 30.10                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 13.83                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 30.74                     |                         |



**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0379 LF S12 x 35 A992/A36 Structural Steel .....                    | 133.87                    | 38.28                   |
| For Hot Dip Galvanizing, Add  | 25.82                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 12.05                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 26.77                     |                         |
| 05 12 23 00-0380 LF S12 x 31.8 A992/A36 Structural Steel .....                  | 123.59                    | 36.62                   |
| For Hot Dip Galvanizing, Add  | 23.46                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 11.12                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 24.72                     |                         |
| 05 12 23 00-0381 LF S10 x 35 A992/A36 Structural Steel .....                    | 136.03                    | 40.31                   |
| For Hot Dip Galvanizing, Add  | 25.82                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 12.24                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 27.21                     |                         |
| 05 12 23 00-0382 LF S10 x 25.4 A992/A36 Structural Steel .....                  | 100.36                    | 30.79                   |
| For Hot Dip Galvanizing, Add  | 18.74                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 9.03                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 20.07                     |                         |
| 05 12 23 00-0383 LF S8 x 23 A992/A36 Structural Steel .....                     | 90.87                     | 27.88                   |
| For Hot Dip Galvanizing, Add  | 16.97                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 8.18                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 18.17                     |                         |
| 05 12 23 00-0384 LF S8 x 18.4 A992/A36 Structural Steel .....                   | 73.95                     | 23.48                   |
| For Hot Dip Galvanizing, Add  | 13.58                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 6.66                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 14.79                     |                         |
| 05 12 23 00-0385 LF S7 x 20 A992/A36 Structural Steel .....                     | 80.38                     | 25.51                   |
| For Hot Dip Galvanizing, Add  | 14.76                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 7.23                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 16.08                     |                         |
| 05 12 23 00-0386 LF S7 x 15.3 A992/A36 Structural Steel .....                   | 62.59                     | 20.56                   |
| For Hot Dip Galvanizing, Add  | 11.29                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 5.63                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 12.52                     |                         |
| 05 12 23 00-0387 LF S6 x 17.25 A992/A36 Structural Steel .....                  | 69.05                     | 21.74                   |
| For Hot Dip Galvanizing, Add  | 12.73                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 6.21                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 13.81                     |                         |
| 05 12 23 00-0388 LF S6 x 12.5 A992/A36 Structural Steel .....                   | 59.12                     | 20.08                   |
| For Hot Dip Galvanizing, Add  | 10.44                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 5.32                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 11.82                     |                         |
| 05 12 23 00-0389 LF S5 x 14.75 A992/A36 Structural Steel .....                  | 63.01                     | 20.47                   |
| For Hot Dip Galvanizing, Add  | 11.45                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 5.67                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 12.60                     |                         |
| 05 12 23 00-0390 LF S5 x 10 A992/A36 Structural Steel .....                     | 53.38                     | 19.96                   |
| For Hot Dip Galvanizing, Add  | 8.88                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 4.80                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 10.68                     |                         |
| 05 12 23 00-0391 LF S4 x 9.5 A992/A36 Structural Steel .....                    | 51.89                     | 19.96                   |
| For Hot Dip Galvanizing, Add  | 8.47                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 4.67                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 10.38                     |                         |
| 05 12 23 00-0392 LF S4 x 7.7 A992/A36 Structural Steel .....                    | 48.46                     | 19.96                   |
| For Hot Dip Galvanizing, Add  | 7.55                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 4.36                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 9.69                      |                         |
| 05 12 23 00-0393 LF S3 x 7.5 A992/A36 Structural Steel .....                    | 48.13                     | 19.96                   |
| For Hot Dip Galvanizing, Add  | 7.46                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 4.33                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 9.63                      |                         |
| 05 12 23 00-0394 LF S3 x 5.7 A992/A36 Structural Steel .....                    | 44.04                     | 19.82                   |
| For Hot Dip Galvanizing, Add  | 6.36                      |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 3.96                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 8.81                      |                         |
| <b>05 12 23 00-0395 A992/A36 Structural Steel, HP Shapes</b> (05 12 23 00-0136) |                           |                         |
| Note: Includes material delivery and erection.                                  |                           |                         |
| 05 12 23 00-0396 LF HP14 x 117 A992/A36 Structural Steel .....                  | 256.23                    | 26.02                   |
| For Hot Dip Galvanizing, Add  | 63.41                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 23.06                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 51.25                     |                         |
| 05 12 23 00-0397 LF HP14 x 102 A992/A36 Structural Steel .....                  | 224.18                    | 24.21                   |
| For Hot Dip Galvanizing, Add  | 55.05                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 20.18                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 44.84                     |                         |
| 05 12 23 00-0398 LF HP14 x 89 A992/A36 Structural Steel .....                   | 199.73                    | 22.71                   |
| For Hot Dip Galvanizing, Add  | 48.71                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 17.98                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 39.95                     |                         |
| 05 12 23 00-0399 LF HP14 x 73 A992/A36 Structural Steel .....                   | 165.32                    | 21.40                   |
| For Hot Dip Galvanizing, Add  | 39.55                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add                                  | 14.88                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add                             | 33.06                     |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0400 LF HP13 x 100 A992/A36 Structural Steel.....   | 219.80                    | 23.74                   |
| For Hot Dip Galvanizing, Add  | 53.97                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 19.78                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 43.96                     |                         |
| 05 12 23 00-0401 LF HP13 x 87 A992/A36 Structural Steel.....  | 195.24                    | 22.20                   |
| For Hot Dip Galvanizing, Add  | 47.61                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 17.57                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 39.05                     |                         |
| 05 12 23 00-0402 LF HP13 x 73 A992/A36 Structural Steel.....  | 165.32                    | 21.40                   |
| For Hot Dip Galvanizing, Add  | 39.55                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 14.88                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 33.06                     |                         |
| 05 12 23 00-0403 LF HP13 x 60 A992/A36 Structural Steel.....  | 140.04                    | 20.51                   |
| For Hot Dip Galvanizing, Add  | 32.79                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 12.60                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 28.01                     |                         |
| 05 12 23 00-0404 LF HP12 x 84 A992/A36 Structural Steel.....  | 184.15                    | 23.41                   |
| For Hot Dip Galvanizing, Add  | 44.18                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 16.57                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 36.83                     |                         |
| 05 12 23 00-0405 LF HP12 x 74 A992/A36 Structural Steel.....  | 162.68                    | 22.08                   |
| For Hot Dip Galvanizing, Add  | 38.61                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 14.64                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 32.54                     |                         |
| 05 12 23 00-0406 LF HP12 x 63 A992/A36 Structural Steel.....  | 140.02                    | 20.30                   |
| For Hot Dip Galvanizing, Add  | 32.85                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 12.60                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 28.00                     |                         |
| 05 12 23 00-0407 LF HP12 x 53 A992/A36 Structural Steel.....  | 128.38                    | 19.30                   |
| For Hot Dip Galvanizing, Add  | 29.91                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 11.55                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 25.68                     |                         |
| 05 12 23 00-0408 LF HP10 x 57 A992/A36 Structural Steel.....  | 135.25                    | 19.81                   |
| For Hot Dip Galvanizing, Add  | 31.67                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 12.17                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 27.05                     |                         |
| 05 12 23 00-0409 LF HP10 x 42 A992/A36 Structural Steel.....  | 111.44                    | 18.57                   |
| For Hot Dip Galvanizing, Add  | 25.43                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 10.03                     |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 22.29                     |                         |
| 05 12 23 00-0410 LF HP8 x 36 A992/A36 Structural Steel.....   | 96.87                     | 17.50                   |
| For Hot Dip Galvanizing, Add  | 21.70                     |                         |
| For High Strength Low Alloy A572-50 Steel, Add  | 8.72                      |                         |
| For High Strength Low Alloy A588 Grade B Steel, Add   | 19.37                     |                         |
| <b>05 12 23 00-0411 Lightweight Framing Steel Shapes</b> <small>(05 12 23)</small>  |                           |                         |
| Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON. |                           |                         |
| <b>05 12 23 00-0412 Angle Iron - L</b> <small>(05 12 23 00-0411)</small>  |                           |                         |
| <b>05 12 23 00-0413 1/8" Thick</b> <small>(05 12 23 00-0412)</small>  |                           |                         |
| 05 12 23 00-0414 LF 1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....   | 2.95                      | 1.77                    |
| For >100 To 250, Deduct   | -0.18                     |                         |
| For >250 To 500, Deduct   | -0.25                     |                         |
| For >500 To 1,000, Deduct   | -0.38                     |                         |
| For >1,000, Deduct  | -0.52                     |                         |
| For Galvanized Steel, Add   | 0.36                      |                         |
| For 304 Stainless Steel, Add  | 1.65                      |                         |
| For High Strength Steel (HSS), Add  | 0.59                      |                         |
| 05 12 23 00-0415 LF 3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....   | 3.42                      | 2.01                    |
| For >100 To 250, Deduct   | -0.20                     |                         |
| For >250 To 500, Deduct   | -0.29                     |                         |
| For >500 To 1,000, Deduct   | -0.44                     |                         |
| For >1,000, Deduct  | -0.59                     |                         |
| For Galvanized Steel, Add   | 0.45                      |                         |
| For 304 Stainless Steel, Add  | 2.08                      |                         |
| For High Strength Steel (HSS), Add  | 0.68                      |                         |
| 05 12 23 00-0416 LF 3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....   | 3.86                      | 2.22                    |
| For >100 To 250, Deduct   | -0.22                     |                         |
| For >250 To 500, Deduct   | -0.32                     |                         |
| For >500 To 1,000, Deduct   | -0.49                     |                         |
| For >1,000, Deduct  | -0.66                     |                         |
| For Galvanized Steel, Add   | 0.56                      |                         |
| For 304 Stainless Steel, Add  | 2.57                      |                         |
| For High Strength Steel (HSS), Add  | 0.77                      |                         |
| 05 12 23 00-0417 LF 1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....   | 4.34                      | 2.47                    |
| For >100 To 250, Deduct   | -0.25                     |                         |
| For >250 To 500, Deduct   | -0.36                     |                         |
| For >500 To 1,000, Deduct   | -0.55                     |                         |
| For >1,000, Deduct  | -0.74                     |                         |
| For Galvanized Steel, Add   | 0.65                      |                         |
| For 304 Stainless Steel, Add  | 2.99                      |                         |
| For High Strength Steel (HSS), Add  | 0.87                      |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0418 LF 1" x 1" x 1/8" Thick, Plain Steel Angle Iron.....           | 4.78                      | 2.67                    |
| For >100 To 250, Deduct   | -0.27                     |                         |
| For >250 To 500, Deduct   | -0.39                     |                         |
| For >500 To 1,000, Deduct   | -0.60                     |                         |
| For >1,000, Deduct  | -0.80                     |                         |
| For Galvanized Steel, Add   | 0.76                      |                         |
| For 304 Stainless Steel, Add  | 3.48                      |                         |
| For High Strength Steel (HSS), Add  | 0.96                      |                         |
| 05 12 23 00-0419 LF 1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron .....  | 5.74                      | 3.14                    |
| For >100 To 250, Deduct   | -0.31                     |                         |
| For >250 To 500, Deduct   | -0.46                     |                         |
| For >500 To 1,000, Deduct   | -0.71                     |                         |
| For >1,000, Deduct  | -0.95                     |                         |
| For Galvanized Steel, Add   | 0.96                      |                         |
| For 304 Stainless Steel, Add  | 4.42                      |                         |
| For High Strength Steel (HSS), Add  | 1.15                      |                         |
| 05 12 23 00-0420 LF 1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron .....      | 5.74                      | 3.14                    |
| For >100 To 250, Deduct   | -0.31                     |                         |
| For >250 To 500, Deduct   | -0.46                     |                         |
| For >500 To 1,000, Deduct   | -0.71                     |                         |
| For >1,000, Deduct  | -0.95                     |                         |
| For Galvanized Steel, Add   | 0.96                      |                         |
| For 304 Stainless Steel, Add  | 4.42                      |                         |
| For High Strength Steel (HSS), Add  | 1.15                      |                         |
| 05 12 23 00-0421 LF 1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron .....  | 6.35                      | 3.37                    |
| For >100 To 250, Deduct   | -0.34                     |                         |
| For >250 To 500, Deduct   | -0.50                     |                         |
| For >500 To 1,000, Deduct   | -0.77                     |                         |
| For >1,000, Deduct  | -1.04                     |                         |
| For Galvanized Steel, Add   | 1.15                      |                         |
| For 304 Stainless Steel, Add  | 5.30                      |                         |
| For High Strength Steel (HSS), Add  | 1.27                      |                         |
| 05 12 23 00-0422 LF 1-3/4" x 1-3/4" x 1/8" Thick, Plain Steel Angle Iron .....  | 6.86                      | 3.48                    |
| For >100 To 250, Deduct   | -0.35                     |                         |
| For >250 To 500, Deduct   | -0.52                     |                         |
| For >500 To 1,000, Deduct   | -0.81                     |                         |
| For >1,000, Deduct  | -1.10                     |                         |
| For 316 Stainless Steel, Add  | 7.07                      |                         |
| For Aluminum, Add   | 0.40                      |                         |
| For Galvanized Steel, Add   | 1.37                      |                         |
| For 304 Stainless Steel, Add  | 6.30                      |                         |
| For High Strength Steel (HSS), Add  | 1.37                      |                         |
| 05 12 23 00-0423 LF 2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron .....      | 6.86                      | 3.48                    |
| For >100 To 250, Deduct   | -0.35                     |                         |
| For >250 To 500, Deduct   | -0.52                     |                         |
| For >500 To 1,000, Deduct   | -0.81                     |                         |
| For >1,000, Deduct  | -1.10                     |                         |
| For 316 Stainless Steel, Add  | 7.07                      |                         |
| For Aluminum, Add   | 0.40                      |                         |
| For Galvanized Steel, Add   | 1.37                      |                         |
| For 304 Stainless Steel, Add  | 6.30                      |                         |
| For High Strength Steel (HSS), Add  | 1.37                      |                         |
| 05 12 23 00-0424 LF 2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....           | 7.33                      | 3.60                    |
| For >100 To 250, Deduct   | -0.36                     |                         |
| For >250 To 500, Deduct   | -0.54                     |                         |
| For >500 To 1,000, Deduct   | -0.85                     |                         |
| For >1,000, Deduct  | -1.15                     |                         |
| For Galvanized Steel, Add   | 1.57                      |                         |
| For 304 Stainless Steel, Add  | 7.21                      |                         |
| For High Strength Steel (HSS), Add  | 1.47                      |                         |
| <b>05 12 23 00-0425 3/16" Thick (05 12 23 00-0412)</b>                          |                           |                         |
| 05 12 23 00-0426 LF 1" x 1" x 3/16" Thick, Plain Steel Angle Iron.....          | 5.54                      | 2.82                    |
| For >100 To 250, Deduct   | -0.28                     |                         |
| For >250 To 500, Deduct   | -0.42                     |                         |
| For >500 To 1,000, Deduct   | -0.65                     |                         |
| For >1,000, Deduct  | -0.89                     |                         |
| For 316 Stainless Steel, Add  | 5.70                      |                         |
| For Aluminum, Add   | 0.32                      |                         |
| For Galvanized Steel, Add   | 1.10                      |                         |
| For 304 Stainless Steel, Add  | 5.07                      |                         |
| For High Strength Steel (HSS), Add  | 1.11                      |                         |
| 05 12 23 00-0427 LF 1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron ..... | 6.69                      | 3.31                    |
| For >100 To 250, Deduct   | -0.33                     |                         |
| For >250 To 500, Deduct   | -0.50                     |                         |
| For >500 To 1,000, Deduct   | -0.78                     |                         |
| For >1,000, Deduct  | -1.05                     |                         |
| For Galvanized Steel, Add   | 1.41                      |                         |
| For 304 Stainless Steel, Add  | 6.47                      |                         |
| For High Strength Steel (HSS), Add  | 1.34                      |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0428 LF 1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron .....     | 6.69                      | 3.31                    |
| For >100 To 250, Deduct   | -0.33                     |                         |
| For >250 To 500, Deduct   | -0.50                     |                         |
| For >500 To 1,000, Deduct   | -0.78                     |                         |
| For >1,000, Deduct  | -1.05                     |                         |
| For Galvanized Steel, Add   | 1.41                      |                         |
| For 304 Stainless Steel, Add  | 6.47                      |                         |
| For High Strength Steel (HSS), Add  | 1.34                      |                         |
| 05 12 23 00-0429 LF 1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron ..... | 7.49                      | 3.56                    |
| For >100 To 250, Deduct   | -0.35                     |                         |
| For >250 To 500, Deduct   | -0.54                     |                         |
| For >500 To 1,000, Deduct   | -0.85                     |                         |
| For >1,000, Deduct  | -1.15                     |                         |
| For Galvanized Steel, Add   | 1.71                      |                         |
| For 304 Stainless Steel, Add  | 7.87                      |                         |
| For High Strength Steel (HSS), Add  | 1.50                      |                         |
| 05 12 23 00-0430 LF 1-3/4" x 1-3/4" x 3/16" Thick, Plain Steel Angle Iron ..... | 8.16                      | 3.68                    |
| For >100 To 250, Deduct   | -0.37                     |                         |
| For >250 To 500, Deduct   | -0.57                     |                         |
| For >500 To 1,000, Deduct   | -0.90                     |                         |
| For >1,000, Deduct  | -1.23                     |                         |
| For 316 Stainless Steel, Add  | 10.40                     |                         |
| For Aluminum, Add   | 0.59                      |                         |
| For Galvanized Steel, Add   | 2.02                      |                         |
| For 304 Stainless Steel, Add  | 9.26                      |                         |
| For High Strength Steel (HSS), Add  | 1.63                      |                         |
| 05 12 23 00-0431 LF 2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron .....     | 8.16                      | 3.68                    |
| For >100 To 250, Deduct   | -0.37                     |                         |
| For >250 To 500, Deduct   | -0.57                     |                         |
| For >500 To 1,000, Deduct   | -0.90                     |                         |
| For >1,000, Deduct  | -1.23                     |                         |
| For 316 Stainless Steel, Add  | 10.40                     |                         |
| For Aluminum, Add   | 0.59                      |                         |
| For Galvanized Steel, Add   | 2.02                      |                         |
| For 304 Stainless Steel, Add  | 9.26                      |                         |
| For High Strength Steel (HSS), Add  | 1.63                      |                         |
| 05 12 23 00-0432 LF 2" x 2" x 3/16" Thick, Plain Steel Angle Iron .....         | 8.83                      | 3.81                    |
| For >100 To 250, Deduct   | -0.38                     |                         |
| For >250 To 500, Deduct   | -0.60                     |                         |
| For >500 To 1,000, Deduct   | -0.95                     |                         |
| For >1,000, Deduct  | -1.30                     |                         |
| For Galvanized Steel, Add   | 2.33                      |                         |
| For 304 Stainless Steel, Add  | 10.69                     |                         |
| For High Strength Steel (HSS), Add  | 1.77                      |                         |
| 05 12 23 00-0433 LF 2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron .....     | 9.66                      | 4.08                    |
| For >100 To 250, Deduct   | -0.41                     |                         |
| For >250 To 500, Deduct   | -0.65                     |                         |
| For >500 To 1,000, Deduct   | -1.03                     |                         |
| For >1,000, Deduct  | -1.40                     |                         |
| For Galvanized Steel, Add   | 2.62                      |                         |
| For 304 Stainless Steel, Add  | 12.03                     |                         |
| For High Strength Steel (HSS), Add  | 1.93                      |                         |
| 05 12 23 00-0434 LF 2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron ..... | 10.56                     | 4.37                    |
| For >100 To 250, Deduct   | -0.44                     |                         |
| For >250 To 500, Deduct   | -0.70                     |                         |
| For >500 To 1,000, Deduct   | -1.11                     |                         |
| For >1,000, Deduct  | -1.52                     |                         |
| For Galvanized Steel, Add   | 2.93                      |                         |
| For 304 Stainless Steel, Add  | 13.48                     |                         |
| For High Strength Steel (HSS), Add  | 2.11                      |                         |
| 05 12 23 00-0435 LF 3" x 2" x 3/16" Thick, Plain Steel Angle Iron .....         | 10.54                     | 4.37                    |
| For >100 To 250, Deduct   | -0.44                     |                         |
| For >250 To 500, Deduct   | -0.70                     |                         |
| For >500 To 1,000, Deduct   | -1.11                     |                         |
| For >1,000, Deduct  | -1.52                     |                         |
| For Galvanized Steel, Add   | 2.92                      |                         |
| For 304 Stainless Steel, Add  | 13.42                     |                         |
| For High Strength Steel (HSS), Add  | 2.11                      |                         |
| 05 12 23 00-0436 LF 3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron .....     | 11.64                     | 4.82                    |
| For >100 To 250, Deduct   | -0.48                     |                         |
| For >250 To 500, Deduct   | -0.77                     |                         |
| For >500 To 1,000, Deduct   | -1.23                     |                         |
| For >1,000, Deduct  | -1.68                     |                         |
| For Galvanized Steel, Add   | 3.22                      |                         |
| For 304 Stainless Steel, Add  | 14.82                     |                         |
| For High Strength Steel (HSS), Add  | 2.33                      |                         |
| 05 12 23 00-0437 LF 3" x 3" x 3/16" Thick, Plain Steel Angle Iron .....         | 12.73                     | 5.29                    |
| For >100 To 250, Deduct   | -0.53                     |                         |
| For >250 To 500, Deduct   | -0.85                     |                         |
| For >500 To 1,000, Deduct   | -1.34                     |                         |
| For >1,000, Deduct  | -1.83                     |                         |
| For Galvanized Steel, Add   | 3.53                      |                         |
| For 304 Stainless Steel, Add  | 16.22                     |                         |
| For High Strength Steel (HSS), Add  | 2.55                      |                         |

05 12 23 00-0438 1/4" Thick (05 12 23 00-0412)

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 05 12 23 00-0439 | LF  |     | 1" x 1" x 1/4" Thick, Plain Steel Angle Iron.....          | 6.61                   | 3.26                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.33                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.49                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.77                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.04                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                        | 7.23                   |                      |
|                  |     |     | <i>For Aluminum, Add</i>                                   | 0.41                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 1.40                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 6.44                   |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.32                   |                      |
| 05 12 23 00-0440 | LF  |     | 1-1/4" x 1-1/4" x 1/4" Thick, Plain Steel Angle Iron ..... | 7.59                   | 3.50                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.35                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.54                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.85                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.15                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                        | 9.34                   |                      |
|                  |     |     | <i>For Aluminum, Add</i>                                   | 0.53                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 1.81                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 8.32                   |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.52                   |                      |
| 05 12 23 00-0441 | LF  |     | 1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron .....     | 7.58                   | 3.50                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.35                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.54                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.85                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.15                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 1.80                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 8.29                   |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.52                   |                      |
| 05 12 23 00-0442 | LF  |     | 1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron ..... | 8.55                   | 3.75                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.38                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.59                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.93                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.27                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 2.20                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 10.12                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.71                   |                      |
| 05 12 23 00-0443 | LF  |     | 1-3/4" x 1-3/4" x 1/4" Thick, Plain Steel Angle Iron ..... | 9.43                   | 3.87                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.39                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.62                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.99                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.35                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                        | 13.63                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                                   | 0.77                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 2.64                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 12.14                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.89                   |                      |
| 05 12 23 00-0444 | LF  |     | 2" x 1" x 1/4" Thick, Plain Steel Angle Iron.....          | 8.34                   | 3.63                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.36                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.57                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.89                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.22                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                        | 11.46                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                                   | 0.64                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 2.22                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 10.20                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.67                   |                      |
| 05 12 23 00-0445 | LF  |     | 2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron .....     | 9.41                   | 3.87                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.39                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.62                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -0.99                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.35                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                        | 13.57                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                                   | 0.76                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 2.63                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 12.08                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 1.88                   |                      |
| 05 12 23 00-0446 | LF  |     | 2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....          | 10.22                  | 4.00                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.40                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.66                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.04                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.43                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 3.03                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 13.94                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 2.04                   |                      |
| 05 12 23 00-0447 | LF  |     | 2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron .....     | 11.46                  | 4.43                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.44                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.73                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.16                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.60                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 3.45                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 15.85                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 2.29                   |                      |



|  |                          |           |
|--|--------------------------|-----------|
|  | <b>Metals</b>            | <b>05</b> |
|  | Structural Metal Framing | 05 10     |
|  | Structural Steel Framing | 05 12     |

05

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 05 12 23 00-0448 | LF  |     | 2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron ..... | 12.76                  | 4.85                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.49                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.81                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.29                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.77                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 3.89                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 17.90                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 2.55                   |                      |
| 05 12 23 00-0449 | LF  |     | 3" x 2" x 1/4" Thick, Plain Steel Angle Iron .....         | 12.76                  | 4.85                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.49                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.81                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.29                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.77                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 3.89                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 17.90                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 2.55                   |                      |
| 05 12 23 00-0450 | LF  |     | 3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron .....     | 14.09                  | 5.39                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.54                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.89                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.42                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -1.95                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 4.28                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 19.69                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 2.82                   |                      |
| 05 12 23 00-0451 | LF  |     | 3" x 3" x 1/4" Thick, Plain Steel Angle Iron .....         | 15.40                  | 5.92                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.59                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -0.98                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.56                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.14                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 4.65                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 21.38                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.08                   |                      |
| 05 12 23 00-0452 | LF  |     | 3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron .....     | 16.76                  | 6.37                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.64                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -1.06                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.69                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.32                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 5.13                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 23.57                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.35                   |                      |
| 05 12 23 00-0453 | LF  |     | 3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron ..... | 17.76                  | 0.66                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.66                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -1.11                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.77                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.44                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 5.52                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 25.37                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.55                   |                      |
| 05 12 23 00-0454 | LF  |     | 4" x 3" x 1/4" Thick, Plain Steel Angle Iron .....         | 17.76                  | 6.65                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.66                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -1.11                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.77                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.44                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 5.52                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 25.37                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.55                   |                      |
| 05 12 23 00-0455 | LF  |     | 4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron .....     | 18.73                  | 6.93                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.69                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -1.16                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.86                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.56                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 5.88                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 27.05                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.75                   |                      |
| 05 12 23 00-0456 | LF  |     | 4" x 4" x 1/4" Thick, Plain Steel Angle Iron .....         | 19.76                  | 7.22                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.72                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -1.22                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.95                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.69                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 6.28                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 28.87                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.95                   |                      |
| 05 12 23 00-0457 | LF  |     | 5" x 3" x 1/4" Thick, Plain Steel Angle Iron .....         | 19.76                  | 7.22                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                          | -0.72                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                          | -1.22                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                        | -1.95                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                               | -2.69                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                           | 6.28                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                        | 28.87                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>                  | 3.95                   |                      |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0458        | LF  |     | 5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron .....      | 20.87                  | 7.61                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.76                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.28                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -2.06                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.83                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 6.65                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 30.55                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 4.17                   |                      |
| <b>05 12 23 00-0459</b> |     |     | <b>5/16" Thick</b> <small>(05 12 23 00-0412)</small>        |                        |                      |
| 05 12 23 00-0460        | LF  |     | 2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron .....     | 13.77                  | 5.15                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.51                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -0.86                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.37                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -1.89                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 4.28                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 19.69                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 2.75                   |                      |
| 05 12 23 00-0461        | LF  |     | 2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron ..... | 14.94                  | 5.46                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.55                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -0.92                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.47                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.03                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 4.76                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 21.86                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 2.99                   |                      |
| 05 12 23 00-0462        | LF  |     | 3" x 2" x 5/16" Thick, Plain Steel Angle Iron .....         | 14.94                  | 5.46                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.55                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -0.92                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.47                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.03                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 4.76                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 21.86                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 2.99                   |                      |
| 05 12 23 00-0463        | LF  |     | 3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron .....     | 16.58                  | 5.98                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.60                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.01                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.63                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.24                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 5.33                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 24.51                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 3.32                   |                      |
| 05 12 23 00-0464        | LF  |     | 3" x 3" x 5/16" Thick, Plain Steel Angle Iron .....         | 18.03                  | 6.51                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.65                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.10                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.77                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.44                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 5.80                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 26.68                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 3.61                   |                      |
| 05 12 23 00-0465        | LF  |     | 3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron .....     | 19.24                  | 6.84                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.68                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.16                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.87                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.58                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 6.28                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 28.87                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 3.85                   |                      |
| 05 12 23 00-0466        | LF  |     | 3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron ..... | 20.58                  | 7.17                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.72                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.23                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.99                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.74                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 6.83                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 31.41                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 4.12                   |                      |
| 05 12 23 00-0467        | LF  |     | 4" x 3" x 5/16" Thick, Plain Steel Angle Iron .....         | 20.58                  | 7.17                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.72                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.23                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -1.99                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.74                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 6.83                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 31.41                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 4.12                   |                      |
| 05 12 23 00-0468        | LF  |     | 4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron .....     | 21.90                  | 7.58                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                           | -0.76                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                           | -1.31                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                         | -2.11                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                                | -2.91                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                            | 7.31                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                         | 33.60                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>                   | 4.38                   |                      |



|  |                          |           |
|--|--------------------------|-----------|
|  | <b>Metals</b>            | <b>05</b> |
|  | Structural Metal Framing | 05 10     |
|  | Structural Steel Framing | 05 12     |

05

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0469 LF 4" x 4" x 5/16" Thick, Plain Steel Angle Iron .....        | 23.15                     | 7.92                    |
| For >100 To 250, Deduct  | -0.79                     |                         |
| For >250 To 500, Deduct  | -1.37                     |                         |
| For >500 To 1,000, Deduct  | -2.21                     |                         |
| For >1,000, Deduct   | -3.06                     |                         |
| For Galvanized Steel, Add  | 7.81                      |                         |
| For 304 Stainless Steel, Add   | 35.88                     |                         |
| For High Strength Steel (HSS), Add   | 4.63                      |                         |
| 05 12 23 00-0470 LF 5" x 3" x 5/16" Thick, Plain Steel Angle Iron .....        | 23.15                     | 7.92                    |
| For >100 To 250, Deduct  | -0.79                     |                         |
| For >250 To 500, Deduct  | -1.37                     |                         |
| For >500 To 1,000, Deduct  | -2.21                     |                         |
| For >1,000, Deduct   | -3.06                     |                         |
| For Galvanized Steel, Add  | 7.81                      |                         |
| For 304 Stainless Steel, Add   | 35.88                     |                         |
| For High Strength Steel (HSS), Add   | 4.63                      |                         |
| 05 12 23 00-0471 LF 5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron .....    | 24.32                     | 8.25                    |
| For >100 To 250, Deduct  | -0.83                     |                         |
| For >250 To 500, Deduct  | -1.43                     |                         |
| For >500 To 1,000, Deduct  | -2.32                     |                         |
| For >1,000, Deduct   | -3.20                     |                         |
| For Galvanized Steel, Add  | 8.26                      |                         |
| For 304 Stainless Steel, Add   | 37.96                     |                         |
| For High Strength Steel (HSS), Add   | 4.86                      |                         |
| 05 12 23 00-0472 LF 5" x 5" x 5/16" Thick, Plain Steel Angle Iron .....        | 27.27                     | 8.60                    |
| For >100 To 250, Deduct  | -0.86                     |                         |
| For >250 To 500, Deduct  | -1.54                     |                         |
| For >500 To 1,000, Deduct  | -2.51                     |                         |
| For >1,000, Deduct   | -3.48                     |                         |
| For Galvanized Steel, Add  | 9.80                      |                         |
| For 304 Stainless Steel, Add   | 45.06                     |                         |
| For High Strength Steel (HSS), Add   | 5.45                      |                         |
| 05 12 23 00-0473 LF 6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron .....    | 26.95                     | 8.95                    |
| For >100 To 250, Deduct  | -0.90                     |                         |
| For >250 To 500, Deduct  | -1.57                     |                         |
| For >500 To 1,000, Deduct  | -2.54                     |                         |
| For >1,000, Deduct   | -3.52                     |                         |
| For Galvanized Steel, Add  | 9.30                      |                         |
| For 304 Stainless Steel, Add   | 42.75                     |                         |
| For High Strength Steel (HSS), Add   | 5.39                      |                         |
| <b>05 12 23 00-0474 3/8" Thick (05 12 23 00-0412)</b>                          |                           |                         |
| 05 12 23 00-0475 LF 3" x 2" x 3/8" Thick, Plain Steel Angle Iron .....         | 16.64                     | 5.71                    |
| For >100 To 250, Deduct  | -0.57                     |                         |
| For >250 To 500, Deduct  | -0.99                     |                         |
| For >500 To 1,000, Deduct  | -1.59                     |                         |
| For >1,000, Deduct   | -2.20                     |                         |
| For Galvanized Steel, Add  | 5.60                      |                         |
| For 304 Stainless Steel, Add   | 25.74                     |                         |
| For High Strength Steel (HSS), Add   | 3.33                      |                         |
| 05 12 23 00-0476 LF 3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron .....     | 18.38                     | 6.18                    |
| For >100 To 250, Deduct  | -0.62                     |                         |
| For >250 To 500, Deduct  | -1.08                     |                         |
| For >500 To 1,000, Deduct  | -1.74                     |                         |
| For >1,000, Deduct   | -2.41                     |                         |
| For Galvanized Steel, Add  | 6.28                      |                         |
| For 304 Stainless Steel, Add   | 28.87                     |                         |
| For High Strength Steel (HSS), Add   | 3.68                      |                         |
| 05 12 23 00-0477 LF 3" x 3" x 3/8" Thick, Plain Steel Angle Iron .....         | 19.90                     | 6.67                    |
| For >100 To 250, Deduct  | -0.67                     |                         |
| For >250 To 500, Deduct  | -1.16                     |                         |
| For >500 To 1,000, Deduct  | -1.88                     |                         |
| For >1,000, Deduct   | -2.60                     |                         |
| For Galvanized Steel, Add  | 6.83                      |                         |
| For 304 Stainless Steel, Add   | 31.41                     |                         |
| For High Strength Steel (HSS), Add   | 3.98                      |                         |
| 05 12 23 00-0478 LF 3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron .....     | 21.26                     | 6.85                    |
| For >100 To 250, Deduct  | -0.68                     |                         |
| For >250 To 500, Deduct  | -1.22                     |                         |
| For >500 To 1,000, Deduct  | -1.98                     |                         |
| For >1,000, Deduct   | -2.74                     |                         |
| For Galvanized Steel, Add  | 7.52                      |                         |
| For 304 Stainless Steel, Add   | 34.57                     |                         |
| For High Strength Steel (HSS), Add   | 4.25                      |                         |
| 05 12 23 00-0479 LF 3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron ..... | 22.64                     | 7.22                    |
| For >100 To 250, Deduct  | -0.72                     |                         |
| For >250 To 500, Deduct  | -1.29                     |                         |
| For >500 To 1,000, Deduct  | -2.10                     |                         |
| For >1,000, Deduct   | -2.90                     |                         |
| For Galvanized Steel, Add  | 8.07                      |                         |
| For 304 Stainless Steel, Add   | 37.08                     |                         |
| For High Strength Steel (HSS), Add   | 4.53                      |                         |



**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0480 LF 4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....      | 22.64                     | 7.22                    |
| For >100 To 250, Deduct  | -0.72                     |                         |
| For >250 To 500, Deduct  | -1.29                     |                         |
| For >500 To 1,000, Deduct  | -2.10                     |                         |
| For >1,000, Deduct   | -2.90                     |                         |
| For Galvanized Steel, Add  | 8.07                      |                         |
| For 304 Stainless Steel, Add   | 37.08                     |                         |
| For High Strength Steel (HSS), Add   | 4.53                      |                         |
| 05 12 23 00-0481 LF 4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron ..... | 24.42                     | 7.87                    |
| For >100 To 250, Deduct  | -0.79                     |                         |
| For >250 To 500, Deduct  | -1.40                     |                         |
| For >500 To 1,000, Deduct  | -2.27                     |                         |
| For >1,000, Deduct   | -3.14                     |                         |
| For Galvanized Steel, Add  | 8.64                      |                         |
| For 304 Stainless Steel, Add   | 39.70                     |                         |
| For High Strength Steel (HSS), Add   | 4.88                      |                         |
| 05 12 23 00-0482 LF 4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....      | 25.80                     | 8.10                    |
| For >100 To 250, Deduct  | -0.81                     |                         |
| For >250 To 500, Deduct  | -1.46                     |                         |
| For >500 To 1,000, Deduct  | -2.37                     |                         |
| For >1,000, Deduct   | -3.29                     |                         |
| For Galvanized Steel, Add  | 9.30                      |                         |
| For 304 Stainless Steel, Add   | 42.75                     |                         |
| For High Strength Steel (HSS), Add   | 5.16                      |                         |
| 05 12 23 00-0483 LF 5" x 3" x 3/8" Thick, Plain Steel Angle Iron.....      | 26.22                     | 8.42                    |
| For >100 To 250, Deduct  | -0.84                     |                         |
| For >250 To 500, Deduct  | -1.50                     |                         |
| For >500 To 1,000, Deduct  | -2.43                     |                         |
| For >1,000, Deduct   | -3.37                     |                         |
| For Galvanized Steel, Add  | 9.30                      |                         |
| For 304 Stainless Steel, Add   | 42.75                     |                         |
| For High Strength Steel (HSS), Add   | 5.24                      |                         |
| 05 12 23 00-0484 LF 5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron ..... | 28.02                     | 9.07                    |
| For >100 To 250, Deduct  | -0.91                     |                         |
| For >250 To 500, Deduct  | -1.61                     |                         |
| For >500 To 1,000, Deduct  | -2.61                     |                         |
| For >1,000, Deduct   | -3.61                     |                         |
| For Galvanized Steel, Add  | 9.87                      |                         |
| For 304 Stainless Steel, Add   | 45.37                     |                         |
| For High Strength Steel (HSS), Add   | 5.60                      |                         |
| 05 12 23 00-0485 LF 5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....      | 32.97                     | 10.58                   |
| For >100 To 250, Deduct  | -1.06                     |                         |
| For >250 To 500, Deduct  | -1.88                     |                         |
| For >500 To 1,000, Deduct  | -3.06                     |                         |
| For >1,000, Deduct   | -4.23                     |                         |
| For Galvanized Steel, Add  | 11.71                     |                         |
| For 304 Stainless Steel, Add   | 53.81                     |                         |
| For High Strength Steel (HSS), Add   | 6.59                      |                         |
| 05 12 23 00-0486 LF 6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron ..... | 31.01                     | 9.83                    |
| For >100 To 250, Deduct  | -0.98                     |                         |
| For >250 To 500, Deduct  | -1.76                     |                         |
| For >500 To 1,000, Deduct  | -2.86                     |                         |
| For >1,000, Deduct   | -3.96                     |                         |
| For Galvanized Steel, Add  | 11.10                     |                         |
| For 304 Stainless Steel, Add   | 51.04                     |                         |
| For High Strength Steel (HSS), Add   | 6.20                      |                         |
| 05 12 23 00-0487 LF 6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....      | 32.97                     | 10.58                   |
| For >100 To 250, Deduct  | -1.06                     |                         |
| For >250 To 500, Deduct  | -1.88                     |                         |
| For >500 To 1,000, Deduct  | -3.06                     |                         |
| For >1,000, Deduct   | -4.23                     |                         |
| For Galvanized Steel, Add  | 11.71                     |                         |
| For 304 Stainless Steel, Add   | 53.81                     |                         |
| For High Strength Steel (HSS), Add   | 6.59                      |                         |
| 05 12 23 00-0488 LF 6" x 6" x 3/8" Thick, Plain Steel Angle Iron.....      | 39.78                     | 12.69                   |
| For >100 To 250, Deduct  | -1.27                     |                         |
| For >250 To 500, Deduct  | -2.26                     |                         |
| For >500 To 1,000, Deduct  | -3.68                     |                         |
| For >1,000, Deduct   | -5.10                     |                         |
| For Galvanized Steel, Add  | 14.18                     |                         |
| For 304 Stainless Steel, Add   | 65.18                     |                         |
| For High Strength Steel (HSS), Add   | 7.96                      |                         |
| 05 12 23 00-0489 LF 7" x 4" x 3/8" Thick, Plain Steel Angle Iron.....      | 36.38                     | 11.63                   |
| For >100 To 250, Deduct  | -1.16                     |                         |
| For >250 To 500, Deduct  | -2.07                     |                         |
| For >500 To 1,000, Deduct  | -3.37                     |                         |
| For >1,000, Deduct   | -4.67                     |                         |
| For Galvanized Steel, Add  | 12.94                     |                         |
| For 304 Stainless Steel, Add   | 59.48                     |                         |
| For High Strength Steel (HSS), Add   | 7.28                      |                         |

05 12 23 00-0490 1/2" Thick (05 12 23 00-0412)



|  |                          |           |
|--|--------------------------|-----------|
|  | <b>Metals</b>            | <b>05</b> |
|  | Structural Metal Framing | 05 10     |
|  | Structural Steel Framing | 05 12     |

05

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 05 12 23 00-0491 | LF  |     | 3" x 3" x 1/2" Thick, Plain Steel Angle Iron .....     | 23.50                  | 6.81                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -0.68                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -1.27                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -2.08                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -2.90                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 8.95                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 41.13                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 4.70                   |                      |
| 05 12 23 00-0492 | LF  |     | 4" x 3" x 1/2" Thick, Plain Steel Angle Iron .....     | 27.76                  | 8.04                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -0.80                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -1.50                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -2.46                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -3.42                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 10.56                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 48.56                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 5.55                   |                      |
| 05 12 23 00-0493 | LF  |     | 4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron ..... | 29.76                  | 8.62                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -0.86                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -1.61                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -2.64                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -3.67                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 11.33                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 52.07                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 5.95                   |                      |
| 05 12 23 00-0494 | LF  |     | 4" x 4" x 1/2" Thick, Plain Steel Angle Iron .....     | 32.01                  | 9.27                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -0.93                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -1.73                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -2.84                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -3.95                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 12.18                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 56.00                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 6.40                   |                      |
| 05 12 23 00-0495 | LF  |     | 5" x 3" x 1/2" Thick, Plain Steel Angle Iron .....     | 32.01                  | 9.27                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -0.93                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -1.73                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -2.84                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -3.95                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 12.18                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 56.00                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 6.40                   |                      |
| 05 12 23 00-0496 | LF  |     | 5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron ..... | 34.01                  | 9.85                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -0.98                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -1.84                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -3.01                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -4.19                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 12.95                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 59.51                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 6.80                   |                      |
| 05 12 23 00-0497 | LF  |     | 5" x 5" x 1/2" Thick, Plain Steel Angle Iron .....     | 40.51                  | 11.73                |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -1.17                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -2.19                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -3.59                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -4.99                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 15.42                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 70.88                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 8.10                   |                      |
| 05 12 23 00-0498 | LF  |     | 6" x 4" x 1/2" Thick, Plain Steel Angle Iron .....     | 40.51                  | 11.73                |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -1.17                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -2.19                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -3.59                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -4.99                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 15.42                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 70.88                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 8.10                   |                      |
| 05 12 23 00-0499 | LF  |     | 6" x 6" x 1/2" Thick, Plain Steel Angle Iron .....     | 49.01                  | 14.19                |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -1.42                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -2.65                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -4.34                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -6.04                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 18.65                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 85.73                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 9.80                   |                      |
| 05 12 23 00-0500 | LF  |     | 7" x 4" x 1/2" Thick, Plain Steel Angle Iron .....     | 44.75                  | 12.96                |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>                      | -1.30                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>                      | -2.41                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>                    | -3.97                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>                           | -5.52                  |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>                       | 17.03                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>                    | 78.29                  |                      |
|                  |     |     | <i>For High Strength Steel (HSS), Add</i>              | 8.95                   |                      |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0501        | LF  |     | 8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....     | 49.01                  | 14.19                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.42                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -2.65                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -4.34                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -6.04                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 18.65                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                   | 85.73                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 9.80                   |                      |
| 05 12 23 00-0502        | LF  |     | 8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....     | 57.52                  | 16.66                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.67                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -3.10                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -5.10                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -7.09                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 21.89                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                   | 100.63                 |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 11.50                  |                      |
| 05 12 23 00-0503        | LF  |     | 8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....     | 66.00                  | 19.12                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.91                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -3.56                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -5.85                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -8.14                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 25.12                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>                   | 115.45                 |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 13.20                  |                      |
| <b>05 12 23 00-0504</b> |     |     | <b>5/8" Thick</b> <small>(05 12 23 00-0412)</small>   |                        |                      |
| 05 12 23 00-0505        | LF  |     | 4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....     | 38.27                  | 10.63                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.06                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -2.02                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -3.33                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -4.64                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 14.94                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 7.65                   |                      |
| 05 12 23 00-0506        | LF  |     | 5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron..... | 40.95                  | 11.37                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.14                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -2.16                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -3.56                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -4.97                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 15.99                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 8.19                   |                      |
| 05 12 23 00-0507        | LF  |     | 5" x 5" x 5/8" Thick, Plain Steel Angle Iron.....     | 48.74                  | 13.54                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.35                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -2.57                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -4.24                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -5.91                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 19.03                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 9.75                   |                      |
| 05 12 23 00-0508        | LF  |     | 6" x 4" x 5/8" Thick, Plain Steel Angle Iron.....     | 48.74                  | 13.54                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.35                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -2.57                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -4.24                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -5.91                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 19.03                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 9.75                   |                      |
| 05 12 23 00-0509        | LF  |     | 6" x 6" x 5/8" Thick, Plain Steel Angle Iron.....     | 58.99                  | 16.38                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.64                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -3.11                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -5.13                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -7.15                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 23.03                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 11.80                  |                      |
| 05 12 23 00-0510        | LF  |     | 7" x 4" x 5/8" Thick, Plain Steel Angle Iron.....     | 53.86                  | 14.96                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.50                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -2.84                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -4.69                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -6.53                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 21.03                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 10.77                  |                      |
| 05 12 23 00-0511        | LF  |     | 8" x 6" x 5/8" Thick, Plain Steel Angle Iron.....     | 69.46                  | 19.29                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -1.93                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -3.67                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -6.05                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -8.42                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 27.12                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 13.89                  |                      |
| 05 12 23 00-0512        | LF  |     | 8" x 8" x 5/8" Thick, Plain Steel Angle Iron.....     | 79.71                  | 22.13                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                     | -2.21                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                     | -4.21                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                   | -6.94                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                          | -9.67                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                      | 31.12                  |                      |
|                         |     |     | <i>For High Strength Steel (HSS), Add</i>             | 15.94                  |                      |
| <b>05 12 23 00-0513</b> |     |     | <b>3/4" Thick</b> <small>(05 12 23 00-0412)</small>   |                        |                      |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0514 LF 4" x 4" x 3/4" Thick, Plain Steel Angle Iron .....     | 44.07                     | 11.74                   |
| For >100 To 250, Deduct  | -1.17                     |                         |
| For >250 To 500, Deduct  | -2.28                     |                         |
| For >500 To 1,000, Deduct  | -3.77                     |                         |
| For >1,000, Deduct   | -5.26                     |                         |
| For Galvanized Steel, Add  | 17.61                     |                         |
| For High Strength Steel (HSS), Add   | 8.81                      |                         |
| 05 12 23 00-0515 LF 5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron ..... | 47.14                     | 12.57                   |
| For >100 To 250, Deduct  | -1.26                     |                         |
| For >250 To 500, Deduct  | -2.43                     |                         |
| For >500 To 1,000, Deduct  | -4.03                     |                         |
| For >1,000, Deduct   | -5.63                     |                         |
| For Galvanized Steel, Add  | 18.84                     |                         |
| For High Strength Steel (HSS), Add   | 9.43                      |                         |
| 05 12 23 00-0516 LF 5" x 5" x 3/4" Thick, Plain Steel Angle Iron .....     | 56.19                     | 14.98                   |
| For >100 To 250, Deduct  | -1.50                     |                         |
| For >250 To 500, Deduct  | -2.90                     |                         |
| For >500 To 1,000, Deduct  | -4.81                     |                         |
| For >1,000, Deduct   | -6.71                     |                         |
| For Galvanized Steel, Add  | 22.46                     |                         |
| For High Strength Steel (HSS), Add   | 11.24                     |                         |
| 05 12 23 00-0517 LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron .....     | 56.19                     | 14.98                   |
| For >100 To 250, Deduct  | -1.50                     |                         |
| For >250 To 500, Deduct  | -2.90                     |                         |
| For >500 To 1,000, Deduct  | -4.81                     |                         |
| For >1,000, Deduct   | -6.71                     |                         |
| For Galvanized Steel, Add  | 22.46                     |                         |
| For High Strength Steel (HSS), Add   | 11.24                     |                         |
| 05 12 23 00-0518 LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron .....     | 68.33                     | 18.21                   |
| For >100 To 250, Deduct  | -1.82                     |                         |
| For >250 To 500, Deduct  | -3.53                     |                         |
| For >500 To 1,000, Deduct  | -5.84                     |                         |
| For >1,000, Deduct   | -8.16                     |                         |
| For Galvanized Steel, Add  | 27.31                     |                         |
| For High Strength Steel (HSS), Add   | 13.67                     |                         |
| 05 12 23 00-0519 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron .....     | 62.38                     | 16.63                   |
| For >100 To 250, Deduct  | -1.66                     |                         |
| For >250 To 500, Deduct  | -3.22                     |                         |
| For >500 To 1,000, Deduct  | -5.34                     |                         |
| For >1,000, Deduct   | -7.45                     |                         |
| For Galvanized Steel, Add  | 24.93                     |                         |
| For High Strength Steel (HSS), Add   | 12.48                     |                         |
| 05 12 23 00-0520 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron .....     | 68.33                     | 18.21                   |
| For >100 To 250, Deduct  | -1.82                     |                         |
| For >250 To 500, Deduct  | -3.53                     |                         |
| For >500 To 1,000, Deduct  | -5.84                     |                         |
| For >1,000, Deduct   | -8.16                     |                         |
| For Galvanized Steel, Add  | 27.31                     |                         |
| For High Strength Steel (HSS), Add   | 13.67                     |                         |
| 05 12 23 00-0521 LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron .....     | 80.48                     | 21.44                   |
| For >100 To 250, Deduct  | -2.14                     |                         |
| For >250 To 500, Deduct  | -4.16                     |                         |
| For >500 To 1,000, Deduct  | -6.88                     |                         |
| For >1,000, Deduct   | -9.61                     |                         |
| For Galvanized Steel, Add  | 32.17                     |                         |
| For High Strength Steel (HSS), Add   | 16.10                     |                         |
| 05 12 23 00-0522 LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron .....     | 92.62                     | 24.69                   |
| For >100 To 250, Deduct  | -2.47                     |                         |
| For >250 To 500, Deduct  | -4.78                     |                         |
| For >500 To 1,000, Deduct  | -7.92                     |                         |
| For >1,000, Deduct   | -11.06                    |                         |
| For Galvanized Steel, Add  | 37.02                     |                         |
| For High Strength Steel (HSS), Add   | 18.52                     |                         |
| <b>05 12 23 00-0523 7/8" Thick</b> <small>(05 12 23 00-0412)</small>       |                           |                         |
| 05 12 23 00-0524 LF 5" x 5" x 7/8" Thick, Plain Steel Angle Iron .....     | 63.22                     | 16.11                   |
| For >100 To 250, Deduct  | -1.61                     |                         |
| For >250 To 500, Deduct  | -3.19                     |                         |
| For >500 To 1,000, Deduct  | -5.31                     |                         |
| For >1,000, Deduct   | -7.43                     |                         |
| For Galvanized Steel, Add  | 25.88                     |                         |
| For High Strength Steel (HSS), Add   | 12.64                     |                         |
| 05 12 23 00-0525 LF 6" x 4" x 7/8" Thick, Plain Steel Angle Iron .....     | 63.22                     | 16.11                   |
| For >100 To 250, Deduct  | -1.61                     |                         |
| For >250 To 500, Deduct  | -3.19                     |                         |
| For >500 To 1,000, Deduct  | -5.31                     |                         |
| For >1,000, Deduct   | -7.43                     |                         |
| For Galvanized Steel, Add  | 25.88                     |                         |
| For High Strength Steel (HSS), Add   | 12.64                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0526 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron..... | 76.95                     | 19.61                   |
| For >100 To 250, Deduct   | -1.96                     |                         |
| For >250 To 500, Deduct   | -3.88                     |                         |
| For >500 To 1,000, Deduct   | -6.46                     |                         |
| For >1,000, Deduct  | -9.04                     |                         |
| For Galvanized Steel, Add   | 31.50                     |                         |
| For High Strength Steel (HSS), Add                                    | 15.39                     |                         |
| 05 12 23 00-0527 LF 8" x 6" x 7/8" Thick, Plain Steel Angle Iron..... | 90.89                     | 23.16                   |
| For >100 To 250, Deduct   | -2.32                     |                         |
| For >250 To 500, Deduct   | -4.59                     |                         |
| For >500 To 1,000, Deduct   | -7.63                     |                         |
| For >1,000, Deduct  | -10.68                    |                         |
| For Galvanized Steel, Add   | 37.21                     |                         |
| For High Strength Steel (HSS), Add                                    | 18.18                     |                         |
| 05 12 23 00-0528 LF 8" x 8" x 7/8" Thick, Plain Steel Angle Iron..... | 104.59                    | 26.66                   |
| For >100 To 250, Deduct   | -2.66                     |                         |
| For >250 To 500, Deduct   | -5.28                     |                         |
| For >500 To 1,000, Deduct   | -8.78                     |                         |
| For >1,000, Deduct  | -12.29                    |                         |
| For Galvanized Steel, Add   | 42.82                     |                         |
| For High Strength Steel (HSS), Add                                    | 20.92                     |                         |
| <b>05 12 23 00-0529 Bar Channel (05 12 23 00-0411)</b>                |                           |                         |
| 05 12 23 00-0530 LF 1" x 1/2" x 1/8" Thick Bar Channel.....           | 5.23                      |                         |
| For 316 Stainless Steel, Add  | 5.34                      |                         |
| For Aluminum, Add   | 0.30                      |                         |
| For Galvanized Steel, Add   | 1.04                      |                         |
| For 304 Stainless Steel, Add  | 4.76                      |                         |
| For High Strength Steel (HSS), Add                                    | 1.05                      |                         |
| 05 12 23 00-0531 LF 1-1/4" x 1/2" x 1/8" Thick Bar Channel.....       | 5.87                      |                         |
| For 316 Stainless Steel, Add  | 6.40                      |                         |
| For Aluminum, Add   | 0.36                      |                         |
| For Galvanized Steel, Add   | 1.24                      |                         |
| For 304 Stainless Steel, Add  | 5.70                      |                         |
| For High Strength Steel (HSS), Add                                    | 1.17                      |                         |
| 05 12 23 00-0532 LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel.....       | 6.40                      |                         |
| For 316 Stainless Steel, Add  | 7.07                      |                         |
| For Aluminum, Add   | 0.40                      |                         |
| For Galvanized Steel, Add   | 1.37                      |                         |
| For 304 Stainless Steel, Add  | 6.30                      |                         |
| For High Strength Steel (HSS), Add                                    | 1.28                      |                         |
| 05 12 23 00-0533 LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel.....       | 7.32                      |                         |
| For 316 Stainless Steel, Add  | 7.39                      |                         |
| For Aluminum, Add   | 0.42                      |                         |
| For Galvanized Steel, Add   | 1.43                      |                         |
| For 304 Stainless Steel, Add  | 6.58                      |                         |
| For High Strength Steel (HSS), Add                                    | 1.46                      |                         |
| 05 12 23 00-0534 LF 2" x 1/2" x 1/8" Thick Bar Channel.....           | 7.84                      |                         |
| For 316 Stainless Steel, Add  | 9.06                      |                         |
| For Aluminum, Add   | 0.51                      |                         |
| For Galvanized Steel, Add   | 1.75                      |                         |
| For 304 Stainless Steel, Add  | 8.07                      |                         |
| 05 12 23 00-0535 LF 2" x 1" x 1/8" Thick Bar Channel.....             | 10.31                     |                         |
| For 316 Stainless Steel, Add  | 10.11                     |                         |
| For Aluminum, Add   | 0.57                      |                         |
| For Galvanized Steel, Add   | 1.96                      |                         |
| For 304 Stainless Steel, Add  | 9.01                      |                         |
| <b>05 12 23 00-0536 Channels - C (05 12 23 00-0411)</b>               |                           |                         |
| 05 12 23 00-0537 LF C2 x 1.78 - 2" Wide Channel.....                  | 8.56                      | 4.41                    |
| For >100 To 250, Deduct   | -0.44                     |                         |
| For >250 To 500, Deduct   | -0.66                     |                         |
| For >500 To 1,000, Deduct   | -1.02                     |                         |
| For >1,000, Deduct  | -1.38                     |                         |
| For 316 Stainless Steel, Add  | 8.58                      |                         |
| For Aluminum, Add   | 0.48                      |                         |
| For Galvanized Steel, Add   | 1.66                      |                         |
| For 304 Stainless Steel, Add  | 7.64                      |                         |
| 05 12 23 00-0538 LF C3 x 4.1 - 3" Wide Channel.....                   | 14.75                     | 6.34                    |
| For >100 To 250, Deduct   | -0.63                     |                         |
| For >250 To 500, Deduct   | -1.00                     |                         |
| For >500 To 1,000, Deduct   | -1.58                     |                         |
| For >1,000, Deduct  | -2.16                     |                         |
| For 316 Stainless Steel, Add  | 20.13                     |                         |
| For Aluminum, Add   | 1.13                      |                         |
| For Galvanized Steel, Add   | 3.90                      |                         |
| For 304 Stainless Steel, Add  | 17.93                     |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION                          | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0539 LF C3 x 5 - 3" Wide Channel .....    | 17.99                     | 7.74                    |
| For >100 To 250, Deduct                               | -0.77                     |                         |
| For >250 To 500, Deduct                               | -1.22                     |                         |
| For >500 To 1,000, Deduct                             | -1.93                     |                         |
| For >1,000, Deduct                                    | -2.64                     |                         |
| For 316 Stainless Steel, Add                          | 24.54                     |                         |
| For Aluminum, Add                                     | 1.38                      |                         |
| For Galvanized Steel, Add                             | 4.76                      |                         |
| For 304 Stainless Steel, Add                          | 21.86                     |                         |
| 05 12 23 00-0540 LF C3 x 6 - 3" Wide Channel .....    | 21.60                     | 9.29                    |
| For >100 To 250, Deduct                               | -0.93                     |                         |
| For >250 To 500, Deduct                               | -1.47                     |                         |
| For >500 To 1,000, Deduct                             | -2.32                     |                         |
| For >1,000, Deduct                                    | -3.17                     |                         |
| For 316 Stainless Steel, Add                          | 29.47                     |                         |
| For Aluminum, Add                                     | 1.66                      |                         |
| For Galvanized Steel, Add                             | 5.71                      |                         |
| For 304 Stainless Steel, Add                          | 26.25                     |                         |
| 05 12 23 00-0541 LF C4 x 5.4 - 4" Wide Channel .....  | 18.44                     | 7.61                    |
| For >100 To 250, Deduct                               | -0.76                     |                         |
| For >250 To 500, Deduct                               | -1.22                     |                         |
| For >500 To 1,000, Deduct                             | -1.94                     |                         |
| For >1,000, Deduct                                    | -2.65                     |                         |
| For 316 Stainless Steel, Add                          | 26.53                     |                         |
| For Aluminum, Add                                     | 1.49                      |                         |
| For Galvanized Steel, Add                             | 5.14                      |                         |
| For 304 Stainless Steel, Add                          | 23.63                     |                         |
| 05 12 23 00-0542 LF C4 x 7.25 - 4" Wide Channel ..... | 24.76                     | 10.22                   |
| For >100 To 250, Deduct                               | -1.02                     |                         |
| For >250 To 500, Deduct                               | -1.64                     |                         |
| For >500 To 1,000, Deduct                             | -2.60                     |                         |
| For >1,000, Deduct                                    | -3.56                     |                         |
| For 316 Stainless Steel, Add                          | 35.62                     |                         |
| For Aluminum, Add                                     | 2.00                      |                         |
| For Galvanized Steel, Add                             | 6.90                      |                         |
| For 304 Stainless Steel, Add                          | 31.72                     |                         |
| 05 12 23 00-0543 LF C5 x 6.7 - 5" Wide Channel .....  | 22.12                     | 8.87                    |
| For >100 To 250, Deduct                               | -0.89                     |                         |
| For >250 To 500, Deduct                               | -1.44                     |                         |
| For >500 To 1,000, Deduct                             | -2.29                     |                         |
| For >1,000, Deduct                                    | -3.14                     |                         |
| For 316 Stainless Steel, Add                          | 32.90                     |                         |
| For Aluminum, Add                                     | 1.85                      |                         |
| For Galvanized Steel, Add                             | 6.37                      |                         |
| For 304 Stainless Steel, Add                          | 29.30                     |                         |
| 05 12 23 00-0544 LF C5 x 9 - 5" Wide Channel .....    | 29.71                     | 11.94                   |
| For >100 To 250, Deduct                               | -1.19                     |                         |
| For >250 To 500, Deduct                               | -1.94                     |                         |
| For >500 To 1,000, Deduct                             | -3.08                     |                         |
| For >1,000, Deduct                                    | -4.22                     |                         |
| For 316 Stainless Steel, Add                          | 44.19                     |                         |
| For Aluminum, Add                                     | 2.49                      |                         |
| For Galvanized Steel, Add                             | 8.56                      |                         |
| For 304 Stainless Steel, Add                          | 39.36                     |                         |
| 05 12 23 00-0545 LF C6 x 8.2 - 6" Wide Channel .....  | 26.79                     | 10.66                   |
| For >100 To 250, Deduct                               | -1.07                     |                         |
| For >250 To 500, Deduct                               | -1.74                     |                         |
| For >500 To 1,000, Deduct                             | -2.76                     |                         |
| For >1,000, Deduct                                    | -3.79                     |                         |
| For 316 Stainless Steel, Add                          | 40.26                     |                         |
| For Aluminum, Add                                     | 2.26                      |                         |
| For Galvanized Steel, Add                             | 7.80                      |                         |
| For 304 Stainless Steel, Add                          | 35.85                     |                         |
| 05 12 23 00-0546 LF C6 x 10.5 - 6" Wide Channel ..... | 34.31                     | 13.65                   |
| For >100 To 250, Deduct                               | -1.37                     |                         |
| For >250 To 500, Deduct                               | -2.22                     |                         |
| For >500 To 1,000, Deduct                             | -3.54                     |                         |
| For >1,000, Deduct                                    | -4.85                     |                         |
| For 316 Stainless Steel, Add                          | 51.55                     |                         |
| For Aluminum, Add                                     | 2.90                      |                         |
| For Galvanized Steel, Add                             | 9.99                      |                         |
| For 304 Stainless Steel, Add                          | 45.91                     |                         |
| 05 12 23 00-0547 LF C6 x 13 - 6" Wide Channel .....   | 42.49                     | 16.90                   |
| For >100 To 250, Deduct                               | -1.69                     |                         |
| For >250 To 500, Deduct                               | -2.75                     |                         |
| For >500 To 1,000, Deduct                             | -4.38                     |                         |
| For >1,000, Deduct                                    | -6.00                     |                         |
| For 316 Stainless Steel, Add                          | 63.84                     |                         |
| For Aluminum, Add                                     | 3.59                      |                         |
| For Galvanized Steel, Add                             | 12.37                     |                         |
| For 304 Stainless Steel, Add                          | 56.86                     |                         |

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



| MINOR            | CSI | UOM | DESCRIPTION                       | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|-----------------------------------|------------------------|----------------------|
| 05 12 23 00-0548 | LF  |     | C7 x 9.8 - 7" Wide Channel.....   | 31.96                  | 12.69                |
|                  |     |     | For >100 To 250, Deduct           | -1.27                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -2.07                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -3.29                  |                      |
|                  |     |     | For >1,000, Deduct                | -4.51                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 48.13                  |                      |
|                  |     |     | For Aluminum, Add                 | 2.71                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 9.32                   |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 42.86                  |                      |
| 05 12 23 00-0549 | LF  |     | C7 x 12.25 - 7" Wide Channel..... | 39.95                  | 15.86                |
|                  |     |     | For >100 To 250, Deduct           | -1.59                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -2.59                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -4.11                  |                      |
|                  |     |     | For >1,000, Deduct                | -5.64                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 60.16                  |                      |
|                  |     |     | For Aluminum, Add                 | 3.38                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 11.66                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 53.58                  |                      |
| 05 12 23 00-0550 | LF  |     | C7 x 14.75 - 7" Wide Channel..... | 48.11                  | 19.10                |
|                  |     |     | For >100 To 250, Deduct           | -1.91                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -3.11                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -4.95                  |                      |
|                  |     |     | For >1,000, Deduct                | -6.79                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 72.45                  |                      |
|                  |     |     | For Aluminum, Add                 | 4.08                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 14.04                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 64.52                  |                      |
| 05 12 23 00-0551 | LF  |     | C8 x 11.5 - 8" Wide Channel.....  | 36.26                  | 13.96                |
|                  |     |     | For >100 To 250, Deduct           | -1.40                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -2.30                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -3.67                  |                      |
|                  |     |     | For >1,000, Deduct                | -5.05                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 56.48                  |                      |
|                  |     |     | For Aluminum, Add                 | 3.18                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 10.94                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 50.30                  |                      |
| 05 12 23 00-0552 | LF  |     | C8 x 13.75 - 8" Wide Channel..... | 43.36                  | 16.70                |
|                  |     |     | For >100 To 250, Deduct           | -1.67                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -2.75                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -4.39                  |                      |
|                  |     |     | For >1,000, Deduct                | -6.03                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 67.52                  |                      |
|                  |     |     | For Aluminum, Add                 | 3.80                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 13.08                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 60.14                  |                      |
| 05 12 23 00-0553 | LF  |     | C8 x 18.75 - 8" Wide Channel..... | 59.12                  | 22.76                |
|                  |     |     | For >100 To 250, Deduct           | -2.28                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -3.75                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -5.99                  |                      |
|                  |     |     | For >1,000, Deduct                | -8.23                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 92.06                  |                      |
|                  |     |     | For Aluminum, Add                 | 5.18                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 17.84                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 81.99                  |                      |
| 05 12 23 00-0554 | LF  |     | C9 x 13.4 - 9" Wide Channel.....  | 42.25                  | 16.27                |
|                  |     |     | For >100 To 250, Deduct           | -1.63                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -2.68                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -4.28                  |                      |
|                  |     |     | For >1,000, Deduct                | -5.88                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 65.79                  |                      |
|                  |     |     | For Aluminum, Add                 | 3.70                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 12.75                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 58.60                  |                      |
| 05 12 23 00-0555 | LF  |     | C9 x 15 - 9" Wide Channel.....    | 47.29                  | 18.21                |
|                  |     |     | For >100 To 250, Deduct           | -1.82                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -3.00                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -4.79                  |                      |
|                  |     |     | For >1,000, Deduct                | -6.58                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 73.66                  |                      |
|                  |     |     | For Aluminum, Add                 | 4.14                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 14.27                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 65.61                  |                      |
| 05 12 23 00-0556 | LF  |     | C9 x 20 - 9" Wide Channel.....    | 63.06                  | 24.27                |
|                  |     |     | For >100 To 250, Deduct           | -2.43                  |                      |
|                  |     |     | For >250 To 500, Deduct           | -4.00                  |                      |
|                  |     |     | For >500 To 1,000, Deduct         | -6.39                  |                      |
|                  |     |     | For >1,000, Deduct                | -8.78                  |                      |
|                  |     |     | For 316 Stainless Steel, Add      | 98.21                  |                      |
|                  |     |     | For Aluminum, Add                 | 5.52                   |                      |
|                  |     |     | For Galvanized Steel, Add         | 19.03                  |                      |
|                  |     |     | For 304 Stainless Steel, Add      | 87.47                  |                      |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION                            | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0557 LF C10 x 15.3 - 10" Wide Channel ..... | 48.24                     | 18.57                   |
| For >100 To 250, Deduct                                 | -1.86                     |                         |
| For >250 To 500, Deduct                                 | -3.06                     |                         |
| For >500 To 1,000, Deduct                               | -4.89                     |                         |
| For >1,000, Deduct                                      | -6.71                     |                         |
| For 316 Stainless Steel, Add                            | 75.14                     |                         |
| For Aluminum, Add                                       | 4.23                      |                         |
| For Galvanized Steel, Add                               | 14.56                     |                         |
| For 304 Stainless Steel, Add                            | 66.92                     |                         |
| 05 12 23 00-0558 LF C10 x 20 - 10" Wide Channel .....   | 63.06                     | 24.27                   |
| For >100 To 250, Deduct                                 | -2.43                     |                         |
| For >250 To 500, Deduct                                 | -4.00                     |                         |
| For >500 To 1,000, Deduct                               | -6.39                     |                         |
| For >1,000, Deduct                                      | -8.78                     |                         |
| For 316 Stainless Steel, Add                            | 98.21                     |                         |
| For Aluminum, Add                                       | 5.52                      |                         |
| For Galvanized Steel, Add                               | 19.03                     |                         |
| For 304 Stainless Steel, Add                            | 87.47                     |                         |
| 05 12 23 00-0559 LF C10 x 25 - 10" Wide Channel .....   | 78.84                     | 30.35                   |
| For >100 To 250, Deduct                                 | -3.04                     |                         |
| For >250 To 500, Deduct                                 | -5.01                     |                         |
| For >500 To 1,000, Deduct                               | -7.99                     |                         |
| For >1,000, Deduct                                      | -10.97                    |                         |
| For 316 Stainless Steel, Add                            | 122.78                    |                         |
| For Aluminum, Add                                       | 6.91                      |                         |
| For Galvanized Steel, Add                               | 23.79                     |                         |
| For 304 Stainless Steel, Add                            | 109.35                    |                         |
| 05 12 23 00-0560 LF C10 x 30 - 10" Wide Channel .....   | 94.60                     | 36.41                   |
| For >100 To 250, Deduct                                 | -3.64                     |                         |
| For >250 To 500, Deduct                                 | -6.01                     |                         |
| For >500 To 1,000, Deduct                               | -9.59                     |                         |
| For >1,000, Deduct                                      | -13.17                    |                         |
| For 316 Stainless Steel, Add                            | 147.33                    |                         |
| For Aluminum, Add                                       | 8.29                      |                         |
| For Galvanized Steel, Add                               | 28.54                     |                         |
| For 304 Stainless Steel, Add                            | 131.21                    |                         |
| 05 12 23 00-0561 LF C12 x 20.7 - 12" Wide Channel ..... | 65.27                     | 25.13                   |
| For >100 To 250, Deduct                                 | -2.51                     |                         |
| For >250 To 500, Deduct                                 | -4.14                     |                         |
| For >500 To 1,000, Deduct                               | -6.61                     |                         |
| For >1,000, Deduct                                      | -9.08                     |                         |
| For 316 Stainless Steel, Add                            | 101.66                    |                         |
| For Aluminum, Add                                       | 5.72                      |                         |
| For Galvanized Steel, Add                               | 19.70                     |                         |
| For 304 Stainless Steel, Add                            | 90.54                     |                         |
| 05 12 23 00-0562 LF C12 x 25 - 12" Wide Channel .....   | 78.84                     | 30.35                   |
| For >100 To 250, Deduct                                 | -3.04                     |                         |
| For >250 To 500, Deduct                                 | -5.01                     |                         |
| For >500 To 1,000, Deduct                               | -7.99                     |                         |
| For >1,000, Deduct                                      | -10.97                    |                         |
| For 316 Stainless Steel, Add                            | 122.78                    |                         |
| For Aluminum, Add                                       | 6.91                      |                         |
| For Galvanized Steel, Add                               | 23.79                     |                         |
| For 304 Stainless Steel, Add                            | 109.35                    |                         |
| 05 12 23 00-0563 LF C12 x 30 - 12" Wide Channel .....   | 94.60                     | 36.41                   |
| For >100 To 250, Deduct                                 | -3.64                     |                         |
| For >250 To 500, Deduct                                 | -6.01                     |                         |
| For >500 To 1,000, Deduct                               | -9.59                     |                         |
| For >1,000, Deduct                                      | -13.17                    |                         |
| For 316 Stainless Steel, Add                            | 147.33                    |                         |
| For Aluminum, Add                                       | 8.29                      |                         |
| For Galvanized Steel, Add                               | 28.54                     |                         |
| For 304 Stainless Steel, Add                            | 131.21                    |                         |
| 05 12 23 00-0564 LF C15 x 33.9 - 15" Wide Channel ..... | 106.89                    | 41.15                   |
| For >100 To 250, Deduct                                 | -4.12                     |                         |
| For >250 To 500, Deduct                                 | -6.79                     |                         |
| For >500 To 1,000, Deduct                               | -10.83                    |                         |
| For >1,000, Deduct                                      | -14.88                    |                         |
| For 316 Stainless Steel, Add                            | 166.46                    |                         |
| For Aluminum, Add                                       | 9.36                      |                         |
| For Galvanized Steel, Add                               | 32.25                     |                         |
| For 304 Stainless Steel, Add                            | 148.26                    |                         |
| 05 12 23 00-0565 LF C15 x 40 - 15" Wide Channel .....   | 126.13                    | 48.56                   |
| For >100 To 250, Deduct                                 | -4.86                     |                         |
| For >250 To 500, Deduct                                 | -8.01                     |                         |
| For >500 To 1,000, Deduct                               | -12.78                    |                         |
| For >1,000, Deduct                                      | -17.55                    |                         |
| For 316 Stainless Steel, Add                            | 196.45                    |                         |
| For Aluminum, Add                                       | 11.05                     |                         |
| For Galvanized Steel, Add                               | 38.06                     |                         |
| For 304 Stainless Steel, Add                            | 174.96                    |                         |



**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0566 LF C15 x 50 - 15" Wide Channel.....                   | 157.66                    | 60.69                   |
| For >100 To 250, Deduct  | -6.07                     |                         |
| For >250 To 500, Deduct  | -10.01                    |                         |
| For >500 To 1,000, Deduct  | -15.98                    |                         |
| For >1,000, Deduct   | -21.94                    |                         |
| For 316 Stainless Steel, Add   | 245.54                    |                         |
| For Aluminum, Add  | 13.81                     |                         |
| For Galvanized Steel, Add  | 47.57                     |                         |
| For 304 Stainless Steel, Add   | 218.68                    |                         |
| <b>05 12 23 00-0567 Miscellaneous Channels - MC (05 12 23 00-0411)</b> |                           |                         |
| 05 12 23 00-0568 LF MC6 x 12 - 6" Wide Channel.....                    | 39.22                     | 15.60                   |
| For >100 To 250, Deduct  | -1.56                     |                         |
| For >250 To 500, Deduct  | -2.54                     |                         |
| For >500 To 1,000, Deduct  | -4.04                     |                         |
| For >1,000, Deduct   | -5.54                     |                         |
| For 316 Stainless Steel, Add   | 58.94                     |                         |
| For Aluminum, Add  | 3.32                      |                         |
| For Galvanized Steel, Add  | 11.42                     |                         |
| For 304 Stainless Steel, Add   | 52.50                     |                         |
| 05 12 23 00-0569 LF MC6 x 15.1 - 6" Wide Channel.....                  | 49.34                     | 19.63                   |
| For >100 To 250, Deduct  | -1.96                     |                         |
| For >250 To 500, Deduct  | -3.20                     |                         |
| For >500 To 1,000, Deduct  | -5.08                     |                         |
| For >1,000, Deduct   | -6.97                     |                         |
| For 316 Stainless Steel, Add   | 74.14                     |                         |
| For Aluminum, Add  | 4.17                      |                         |
| For Galvanized Steel, Add  | 14.37                     |                         |
| For 304 Stainless Steel, Add   | 66.03                     |                         |
| 05 12 23 00-0570 LF MC6 x 15.3 - 6" Wide Channel.....                  | 50.00                     | 19.89                   |
| For >100 To 250, Deduct  | -1.99                     |                         |
| For >250 To 500, Deduct  | -3.24                     |                         |
| For >500 To 1,000, Deduct  | -5.15                     |                         |
| For >1,000, Deduct   | -7.07                     |                         |
| For 316 Stainless Steel, Add   | 75.14                     |                         |
| For Aluminum, Add  | 4.23                      |                         |
| For Galvanized Steel, Add  | 14.56                     |                         |
| For 304 Stainless Steel, Add   | 66.92                     |                         |
| 05 12 23 00-0571 LF MC6 x 16.3 - 6" Wide Channel.....                  | 53.27                     | 21.18                   |
| For >100 To 250, Deduct  | -2.12                     |                         |
| For >250 To 500, Deduct  | -3.45                     |                         |
| For >500 To 1,000, Deduct  | -5.49                     |                         |
| For >1,000, Deduct   | -7.53                     |                         |
| For 316 Stainless Steel, Add   | 80.03                     |                         |
| For Aluminum, Add  | 4.50                      |                         |
| For Galvanized Steel, Add  | 15.51                     |                         |
| For 304 Stainless Steel, Add   | 71.28                     |                         |
| 05 12 23 00-0572 LF MC6 x 18 - 6" Wide Channel.....                    | 58.82                     | 23.40                   |
| For >100 To 250, Deduct  | -2.34                     |                         |
| For >250 To 500, Deduct  | -3.81                     |                         |
| For >500 To 1,000, Deduct  | -6.06                     |                         |
| For >1,000, Deduct   | -8.31                     |                         |
| For 316 Stainless Steel, Add   | 88.38                     |                         |
| For Aluminum, Add  | 4.97                      |                         |
| For Galvanized Steel, Add  | 17.12                     |                         |
| For 304 Stainless Steel, Add   | 78.72                     |                         |
| 05 12 23 00-0573 LF MC7 x 17.6 - 7" Wide Channel.....                  | 57.40                     | 22.80                   |
| For >100 To 250, Deduct  | -2.28                     |                         |
| For >250 To 500, Deduct  | -3.71                     |                         |
| For >500 To 1,000, Deduct  | -5.91                     |                         |
| For >1,000, Deduct   | -8.10                     |                         |
| For 316 Stainless Steel, Add   | 86.43                     |                         |
| For Aluminum, Add  | 4.86                      |                         |
| For Galvanized Steel, Add  | 16.75                     |                         |
| For 304 Stainless Steel, Add   | 76.98                     |                         |
| 05 12 23 00-0574 LF MC7 x 19.1 - 7" Wide Channel.....                  | 62.30                     | 24.74                   |
| For >100 To 250, Deduct  | -2.47                     |                         |
| For >250 To 500, Deduct  | -4.03                     |                         |
| For >500 To 1,000, Deduct  | -6.41                     |                         |
| For >1,000, Deduct   | -8.80                     |                         |
| For 316 Stainless Steel, Add   | 93.79                     |                         |
| For Aluminum, Add  | 5.28                      |                         |
| For Galvanized Steel, Add  | 18.17                     |                         |
| For 304 Stainless Steel, Add   | 83.53                     |                         |
| 05 12 23 00-0575 LF MC7 x 22.7 - 7" Wide Channel.....                  | 74.04                     | 29.40                   |
| For >100 To 250, Deduct  | -2.94                     |                         |
| For >250 To 500, Deduct  | -4.79                     |                         |
| For >500 To 1,000, Deduct  | -7.62                     |                         |
| For >1,000, Deduct   | -10.45                    |                         |
| For 316 Stainless Steel, Add   | 111.49                    |                         |
| For Aluminum, Add  | 6.27                      |                         |
| For Galvanized Steel, Add  | 21.60                     |                         |
| For 304 Stainless Steel, Add   | 99.29                     |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION                            | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0576 LF MC8 x 8.5 - 8" Wide Channel .....   | 26.80                     | 10.32                   |
| For >100 To 250, Deduct                                 | -1.03                     |                         |
| For >250 To 500, Deduct                                 | -1.70                     |                         |
| For >500 To 1,000, Deduct                               | -2.72                     |                         |
| For >1,000, Deduct                                      | -3.73                     |                         |
| For 316 Stainless Steel, Add                            | 41.73                     |                         |
| For Aluminum, Add                                       | 2.35                      |                         |
| For Galvanized Steel, Add                               | 8.08                      |                         |
| For 304 Stainless Steel, Add                            | 37.16                     |                         |
| 05 12 23 00-0577 LF MC8 x 18.7 - 8" Wide Channel .....  | 58.97                     | 22.69                   |
| For >100 To 250, Deduct                                 | -2.27                     |                         |
| For >250 To 500, Deduct                                 | -3.74                     |                         |
| For >500 To 1,000, Deduct                               | -5.98                     |                         |
| For >1,000, Deduct                                      | -8.21                     |                         |
| For 316 Stainless Steel, Add                            | 91.84                     |                         |
| For Aluminum, Add                                       | 5.17                      |                         |
| For Galvanized Steel, Add                               | 17.79                     |                         |
| For 304 Stainless Steel, Add                            | 81.80                     |                         |
| 05 12 23 00-0578 LF MC8 x 20 - 8" Wide Channel .....    | 63.06                     | 24.27                   |
| For >100 To 250, Deduct                                 | -2.43                     |                         |
| For >250 To 500, Deduct                                 | -4.00                     |                         |
| For >500 To 1,000, Deduct                               | -6.39                     |                         |
| For >1,000, Deduct                                      | -8.78                     |                         |
| For 316 Stainless Steel, Add                            | 98.21                     |                         |
| For Aluminum, Add                                       | 5.52                      |                         |
| For Galvanized Steel, Add                               | 19.03                     |                         |
| For 304 Stainless Steel, Add                            | 87.47                     |                         |
| 05 12 23 00-0579 LF MC8 x 21.4 - 8" Wide Channel .....  | 67.49                     | 25.98                   |
| For >100 To 250, Deduct                                 | -2.60                     |                         |
| For >250 To 500, Deduct                                 | -4.29                     |                         |
| For >500 To 1,000, Deduct                               | -6.84                     |                         |
| For >1,000, Deduct                                      | -9.39                     |                         |
| For 316 Stainless Steel, Add                            | 105.09                    |                         |
| For Aluminum, Add                                       | 5.91                      |                         |
| For Galvanized Steel, Add                               | 20.36                     |                         |
| For 304 Stainless Steel, Add                            | 93.59                     |                         |
| 05 12 23 00-0580 LF MC8 x 22.8 - 8" Wide Channel .....  | 71.89                     | 27.69                   |
| For >100 To 250, Deduct                                 | -2.77                     |                         |
| For >250 To 500, Deduct                                 | -4.56                     |                         |
| For >500 To 1,000, Deduct                               | -7.28                     |                         |
| For >1,000, Deduct                                      | -10.00                    |                         |
| For 316 Stainless Steel, Add                            | 111.97                    |                         |
| For Aluminum, Add                                       | 6.30                      |                         |
| For Galvanized Steel, Add                               | 21.69                     |                         |
| For 304 Stainless Steel, Add                            | 99.72                     |                         |
| 05 12 23 00-0581 LF MC9 x 23.9 - 9" Wide Channel .....  | 75.37                     | 29.02                   |
| For >100 To 250, Deduct                                 | -2.90                     |                         |
| For >250 To 500, Deduct                                 | -4.79                     |                         |
| For >500 To 1,000, Deduct                               | -7.64                     |                         |
| For >1,000, Deduct                                      | -10.49                    |                         |
| For 316 Stainless Steel, Add                            | 117.38                    |                         |
| For Aluminum, Add                                       | 6.60                      |                         |
| For Galvanized Steel, Add                               | 22.74                     |                         |
| For 304 Stainless Steel, Add                            | 104.54                    |                         |
| 05 12 23 00-0582 LF MC9 x 25.4 - 9" Wide Channel .....  | 80.08                     | 30.83                   |
| For >100 To 250, Deduct                                 | -3.08                     |                         |
| For >250 To 500, Deduct                                 | -5.08                     |                         |
| For >500 To 1,000, Deduct                               | -8.11                     |                         |
| For >1,000, Deduct                                      | -11.14                    |                         |
| For 316 Stainless Steel, Add                            | 124.74                    |                         |
| For Aluminum, Add                                       | 7.02                      |                         |
| For Galvanized Steel, Add                               | 24.17                     |                         |
| For 304 Stainless Steel, Add                            | 111.09                    |                         |
| 05 12 23 00-0583 LF MC10 x 6.5 - 10" Wide Channel ..... | 20.51                     | 7.89                    |
| For >100 To 250, Deduct                                 | -0.79                     |                         |
| For >250 To 500, Deduct                                 | -1.30                     |                         |
| For >500 To 1,000, Deduct                               | -2.08                     |                         |
| For >1,000, Deduct                                      | -2.85                     |                         |
| For 316 Stainless Steel, Add                            | 31.94                     |                         |
| For Aluminum, Add                                       | 1.80                      |                         |
| For Galvanized Steel, Add                               | 6.19                      |                         |
| For 304 Stainless Steel, Add                            | 28.44                     |                         |
| 05 12 23 00-0584 LF MC10 x 8.4 - 10" Wide Channel ..... | 26.49                     | 10.19                   |
| For >100 To 250, Deduct                                 | -1.02                     |                         |
| For >250 To 500, Deduct                                 | -1.68                     |                         |
| For >500 To 1,000, Deduct                               | -2.68                     |                         |
| For >1,000, Deduct                                      | -3.69                     |                         |
| For 316 Stainless Steel, Add                            | 41.25                     |                         |
| For Aluminum, Add                                       | 2.32                      |                         |
| For Galvanized Steel, Add                               | 7.99                      |                         |
| For 304 Stainless Steel, Add                            | 36.74                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR            | CSI | UOM | DESCRIPTION                         | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|-------------------------------------|---------------------------|-------------------------|
| 05 12 23 00-0585 | LF  |     | MC10 x 21.9 - 10" Wide Channel..... | 69.05                     | 26.59                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.66                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -4.38                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -7.00                     |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -9.61                     |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 107.55                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 6.05                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 20.84                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 95.79                     |                         |
| 05 12 23 00-0586 | LF  |     | MC10 x 24.9 - 10" Wide Channel..... | 78.52                     | 30.24                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -3.02                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -4.99                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -7.96                     |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -10.93                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 122.27                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 6.88                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 23.69                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 108.90                    |                         |
| 05 12 23 00-0587 | LF  |     | MC10 x 25.3 - 10" Wide Channel..... | 79.78                     | 30.72                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -3.07                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -5.07                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -8.08                     |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -11.10                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 124.26                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 6.99                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 24.07                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 110.67                    |                         |
| 05 12 23 00-0588 | LF  |     | MC10 x 28.3 - 10" Wide Channel..... | 89.24                     | 34.35                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -3.44                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -5.67                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -9.04                     |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -12.42                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 138.98                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 7.82                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 26.93                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 123.78                    |                         |
| 05 12 23 00-0589 | LF  |     | MC10 x 28.5 - 10" Wide Channel..... | 89.87                     | 34.60                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -3.46                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -5.71                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -9.11                     |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -12.51                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 139.97                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 7.87                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 27.12                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 124.66                    |                         |
| 05 12 23 00-0590 | LF  |     | MC10 x 33.6 - 10" Wide Channel..... | 105.95                    | 40.79                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -4.08                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -6.73                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -10.74                    |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -14.75                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 164.99                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 9.28                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 31.97                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 146.95                    |                         |
| 05 12 23 00-0591 | LF  |     | MC10 x 41.1 - 10" Wide Channel..... | 129.59                    | 49.90                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -4.99                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -8.23                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -13.13                    |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -18.03                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 201.82                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 11.35                     |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 39.10                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 179.75                    |                         |
| 05 12 23 00-0592 | LF  |     | MC12 x 30.9 - 12" Wide Channel..... | 97.44                     | 37.51                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -3.75                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -6.19                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -9.87                     |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -13.56                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 151.74                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 8.54                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 29.40                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 135.15                    |                         |
| 05 12 23 00-0593 | LF  |     | MC12 x 32.9 - 12" Wide Channel..... | 103.75                    | 39.93                   |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -3.99                     |                         |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -6.59                     |                         |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i> | -10.51                    |                         |
|                  |     |     | <i>For &gt;1,000, Deduct</i>        | -14.44                    |                         |
|                  |     |     | <i>For 316 Stainless Steel, Add</i> | 161.57                    |                         |
|                  |     |     | <i>For Aluminum, Add</i>            | 9.09                      |                         |
|                  |     |     | <i>For Galvanized Steel, Add</i>    | 31.30                     |                         |
|                  |     |     | <i>For 304 Stainless Steel, Add</i> | 143.90                    |                         |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION                             | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0594 LF MC12 x 35 - 12" Wide Channel .....   | 110.36                    | 42.48                   |
| For >100 To 250, Deduct                                  | -4.25                     |                         |
| For >250 To 500, Deduct                                  | -7.01                     |                         |
| For >500 To 1,000, Deduct                                | -11.18                    |                         |
| For >1,000, Deduct                                       | -15.36                    |                         |
| For 316 Stainless Steel, Add                             | 171.87                    |                         |
| For Aluminum, Add  | 9.67                      |                         |
| For Galvanized Steel, Add                                | 33.30                     |                         |
| For 304 Stainless Steel, Add                             | 153.07                    |                         |
| 05 12 23 00-0595 LF MC12 x 37 - 12" Wide Channel .....   | 116.67                    | 44.92                   |
| For >100 To 250, Deduct                                  | -4.49                     |                         |
| For >250 To 500, Deduct                                  | -7.41                     |                         |
| For >500 To 1,000, Deduct                                | -11.82                    |                         |
| For >1,000, Deduct                                       | -16.24                    |                         |
| For 316 Stainless Steel, Add                             | 181.70                    |                         |
| For Aluminum, Add  | 10.22                     |                         |
| For Galvanized Steel, Add                                | 35.20                     |                         |
| For 304 Stainless Steel, Add                             | 161.82                    |                         |
| 05 12 23 00-0596 LF MC12 x 40 - 12" Wide Channel .....   | 126.13                    | 48.56                   |
| For >100 To 250, Deduct                                  | -4.86                     |                         |
| For >250 To 500, Deduct                                  | -8.01                     |                         |
| For >500 To 1,000, Deduct                                | -12.78                    |                         |
| For >1,000, Deduct                                       | -17.55                    |                         |
| For 316 Stainless Steel, Add                             | 196.45                    |                         |
| For Aluminum, Add  | 11.05                     |                         |
| For Galvanized Steel, Add                                | 38.06                     |                         |
| For 304 Stainless Steel, Add                             | 174.96                    |                         |
| 05 12 23 00-0597 LF MC12 x 45 - 12" Wide Channel .....   | 141.90                    | 54.63                   |
| For >100 To 250, Deduct                                  | -5.46                     |                         |
| For >250 To 500, Deduct                                  | -9.01                     |                         |
| For >500 To 1,000, Deduct                                | -14.38                    |                         |
| For >1,000, Deduct                                       | -19.75                    |                         |
| For 316 Stainless Steel, Add                             | 220.99                    |                         |
| For Aluminum, Add  | 12.43                     |                         |
| For Galvanized Steel, Add                                | 42.82                     |                         |
| For 304 Stainless Steel, Add                             | 196.82                    |                         |
| 05 12 23 00-0598 LF MC12 x 50 - 12" Wide Channel .....   | 157.66                    | 60.70                   |
| For >100 To 250, Deduct                                  | -6.07                     |                         |
| For >250 To 500, Deduct                                  | -10.01                    |                         |
| For >500 To 1,000, Deduct                                | -15.98                    |                         |
| For >1,000, Deduct                                       | -21.94                    |                         |
| For 316 Stainless Steel, Add                             | 245.54                    |                         |
| For Aluminum, Add  | 13.81                     |                         |
| For Galvanized Steel, Add                                | 47.57                     |                         |
| For 304 Stainless Steel, Add                             | 218.68                    |                         |
| 05 12 23 00-0599 LF MC13 x 31.8 - 13" Wide Channel ..... | 100.28                    | 38.61                   |
| For >100 To 250, Deduct                                  | -3.86                     |                         |
| For >250 To 500, Deduct                                  | -6.37                     |                         |
| For >500 To 1,000, Deduct                                | -10.16                    |                         |
| For >1,000, Deduct                                       | -13.96                    |                         |
| For 316 Stainless Steel, Add                             | 156.16                    |                         |
| For Aluminum, Add  | 8.78                      |                         |
| For Galvanized Steel, Add                                | 30.26                     |                         |
| For 304 Stainless Steel, Add                             | 139.08                    |                         |
| 05 12 23 00-0600 LF MC13 x 35 - 13" Wide Channel .....   | 110.36                    | 42.48                   |
| For >100 To 250, Deduct                                  | -4.25                     |                         |
| For >250 To 500, Deduct                                  | -7.01                     |                         |
| For >500 To 1,000, Deduct                                | -11.18                    |                         |
| For >1,000, Deduct                                       | -15.36                    |                         |
| For 316 Stainless Steel, Add                             | 171.87                    |                         |
| For Aluminum, Add  | 9.67                      |                         |
| For Galvanized Steel, Add                                | 33.30                     |                         |
| For 304 Stainless Steel, Add                             | 153.07                    |                         |
| 05 12 23 00-0601 LF MC13 x 40 - 13" Wide Channel .....   | 126.13                    | 48.56                   |
| For >100 To 250, Deduct                                  | -4.86                     |                         |
| For >250 To 500, Deduct                                  | -8.01                     |                         |
| For >500 To 1,000, Deduct                                | -12.78                    |                         |
| For >1,000, Deduct                                       | -17.55                    |                         |
| For 316 Stainless Steel, Add                             | 196.45                    |                         |
| For Aluminum, Add  | 11.05                     |                         |
| For Galvanized Steel, Add                                | 38.06                     |                         |
| For 304 Stainless Steel, Add                             | 174.96                    |                         |
| 05 12 23 00-0602 LF MC13 x 50 - 13" Wide Channel .....   | 157.66                    | 60.70                   |
| For >100 To 250, Deduct                                  | -6.07                     |                         |
| For >250 To 500, Deduct                                  | -10.01                    |                         |
| For >500 To 1,000, Deduct                                | -15.98                    |                         |
| For >1,000, Deduct                                       | -21.94                    |                         |
| For 316 Stainless Steel, Add                             | 245.54                    |                         |
| For Aluminum, Add  | 13.81                     |                         |
| For Galvanized Steel, Add                                | 47.57                     |                         |
| For 304 Stainless Steel, Add                             | 218.68                    |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR                   | CSI | UOM | DESCRIPTION                                     | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0603        | LF  |     | MC18 x 42.7 - 18" Wide Channel.....             | 134.64                 | 51.83                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -5.18                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -8.55                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -13.64                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -18.74                 |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 209.70                 |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 11.80                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 40.63                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 186.76                 |                      |
| 05 12 23 00-0604        | LF  |     | MC18 x 45.8 - 18" Wide Channel.....             | 144.42                 | 55.61                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -5.56                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -9.17                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -14.63                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -20.10                 |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 224.93                 |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 12.65                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 43.58                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 200.33                 |                      |
| 05 12 23 00-0605        | LF  |     | MC18 x 51.9 - 18" Wide Channel.....             | 163.66                 | 63.00                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -6.30                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -10.39                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -16.58                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -22.78                 |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 254.88                 |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 14.34                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 49.38                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 227.00                 |                      |
| 05 12 23 00-0606        | LF  |     | MC18 x 58 - 18" Wide Channel.....               | 182.89                 | 70.40                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -7.04                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -11.61                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -18.53                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -25.45                 |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 284.83                 |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 16.02                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 55.19                  |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 253.68                 |                      |
| <b>05 12 23 00-0607</b> |     |     | <b>Structural Bar Tees</b> (05 12 23 00-0411)   |                        |                      |
| 05 12 23 00-0608        | LF  |     | 3/4" x 3/4" x 1/8" Structural Bar Tee .....     | 5.55                   | 3.23                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -0.32                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -0.46                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -0.71                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -0.96                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 3.97                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 0.22                   |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 0.77                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 3.53                   |                      |
| 05 12 23 00-0609        | LF  |     | 1" x 1" x 1/8" Structural Bar Tee .....         | 6.78                   | 3.81                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -0.38                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -0.55                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -0.85                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -1.14                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 5.44                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 0.31                   |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 1.05                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 4.85                   |                      |
| 05 12 23 00-0610        | LF  |     | 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee ..... | 10.73                  | 4.40                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -0.44                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -0.71                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -1.12                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -1.54                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 15.58                  |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 0.88                   |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 3.02                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 13.88                  |                      |
| 05 12 23 00-0611        | LF  |     | 2" x 2" x 1/4" Structural Bar Tee .....         | 14.91                  | 5.75                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -0.57                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -0.95                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -1.51                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -2.08                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 23.20                  |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 1.31                   |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 4.50                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 20.66                  |                      |
| 05 12 23 00-0612        | LF  |     | 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee ..... | 22.27                  | 6.94                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>               | -0.69                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>               | -1.25                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>             | -2.04                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                    | -2.83                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>             | 41.63                  |                      |
|                         |     |     | <i>For Aluminum, Add</i>                        | 2.34                   |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                | 8.07                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>             | 37.08                  |                      |



|                          |           |           |
|--------------------------|-----------|-----------|
| <b>Metals</b>            | <b>05</b> | <b>05</b> |
| Structural Metal Framing | 05 10     |           |
| Structural Steel Framing | 05 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0613 LF 3" x 3" x 3/8" Structural Bar Tee .....               | 27.46                     | 8.88                    |
| For >100 To 250, Deduct   | -0.89                     |                         |
| For >250 To 500, Deduct   | -1.57                     |                         |
| For >500 To 1,000, Deduct   | -2.56                     |                         |
| For >1,000, Deduct  | -3.54                     |                         |
| For 316 Stainless Steel, Add  | 49.98                     |                         |
| For Aluminum, Add   | 2.81                      |                         |
| For Galvanized Steel, Add   | 9.68                      |                         |
| For 304 Stainless Steel, Add  | 44.52                     |                         |
| <b>05 12 23 00-0614 Structural Zees (05 12 23 00-0411)</b>                |                           |                         |
| 05 12 23 00-0615 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee ..... | 13.11                     | 4.40                    |
| For >100 To 250, Deduct   | -0.44                     |                         |
| For >250 To 500, Deduct   | -0.77                     |                         |
| For >500 To 1,000, Deduct   | -1.24                     |                         |
| For >1,000, Deduct  | -1.72                     |                         |
| For 316 Stainless Steel, Add  | 23.20                     |                         |
| For Aluminum, Add   | 1.31                      |                         |
| For Galvanized Steel, Add   | 4.50                      |                         |
| For 304 Stainless Steel, Add  | 20.66                     |                         |
| 05 12 23 00-0616 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....   | 24.35                     | 5.25                    |
| For >100 To 250, Deduct   | -0.52                     |                         |
| For >250 To 500, Deduct   | -1.13                     |                         |
| For >500 To 1,000, Deduct   | -1.92                     |                         |
| For >1,000, Deduct  | -2.70                     |                         |
| For 316 Stainless Steel, Add  | 55.55                     |                         |
| For Aluminum, Add   | 3.12                      |                         |
| For Galvanized Steel, Add   | 10.76                     |                         |
| For 304 Stainless Steel, Add  | 49.48                     |                         |
| 05 12 23 00-0617 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....     | 29.15                     | 5.92                    |
| For >100 To 250, Deduct   | -0.59                     |                         |
| For >250 To 500, Deduct   | -1.32                     |                         |
| For >500 To 1,000, Deduct   | -2.25                     |                         |
| For >1,000, Deduct  | -3.17                     |                         |
| For 316 Stainless Steel, Add  | 68.00                     |                         |
| For Aluminum, Add   | 3.83                      |                         |
| For Galvanized Steel, Add   | 13.18                     |                         |
| For 304 Stainless Steel, Add  | 60.56                     |                         |
| 05 12 23 00-0618 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....      | 39.08                     | 6.77                    |
| For >100 To 250, Deduct   | -0.68                     |                         |
| For >250 To 500, Deduct   | -1.65                     |                         |
| For >500 To 1,000, Deduct   | -2.86                     |                         |
| For >1,000, Deduct  | -4.06                     |                         |
| For 316 Stainless Steel, Add  | 96.19                     |                         |
| For Aluminum, Add   | 5.41                      |                         |
| For Galvanized Steel, Add   | 18.64                     |                         |
| For 304 Stainless Steel, Add  | 85.67                     |                         |
| 05 12 23 00-0619 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....       | 50.50                     | 7.36                    |
| For >100 To 250, Deduct   | -0.74                     |                         |
| For >250 To 500, Deduct   | -2.00                     |                         |
| For >500 To 1,000, Deduct   | -3.51                     |                         |
| For >1,000, Deduct  | -5.02                     |                         |
| For 316 Stainless Steel, Add  | 130.18                    |                         |
| For Aluminum, Add   | 7.32                      |                         |
| For Galvanized Steel, Add   | 25.22                     |                         |
| For 304 Stainless Steel, Add  | 115.94                    |                         |
| <b>05 12 23 00-0620 Junior I-Beams (05 12 23 00-0411)</b>                 |                           |                         |
| 05 12 23 00-0621 LF 3" Junior I-Beam, 2.9 LB/LF.....                      | 18.02                     | 6.35                    |
| For >100 To 250, Deduct   | -0.63                     |                         |
| For >250 To 500, Deduct   | -1.09                     |                         |
| For >500 To 1,000, Deduct   | -1.75                     |                         |
| For >1,000, Deduct  | -2.41                     |                         |
| For 316 Stainless Steel, Add  | 30.59                     |                         |
| For Aluminum, Add   | 1.72                      |                         |
| For Galvanized Steel, Add   | 5.93                      |                         |
| For 304 Stainless Steel, Add  | 27.25                     |                         |
| 05 12 23 00-0622 LF 4" Junior I-Beam, 3.2 LB/LF.....                      | 19.81                     | 6.94                    |
| For >100 To 250, Deduct   | -0.69                     |                         |
| For >250 To 500, Deduct   | -1.19                     |                         |
| For >500 To 1,000, Deduct   | -1.92                     |                         |
| For >1,000, Deduct  | -2.64                     |                         |
| For 316 Stainless Steel, Add  | 33.76                     |                         |
| For Aluminum, Add   | 1.90                      |                         |
| For Galvanized Steel, Add   | 6.54                      |                         |
| For 304 Stainless Steel, Add  | 30.07                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR            | CSI | UOM | DESCRIPTION                               | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0623 | LF  |     | 5" Junior I-Beam, 3.8 LB/LF .....         | 22.68                  | 7.61                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>         | -0.76                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>         | -1.33                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>       | -2.15                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>              | -2.97                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 40.10                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 2.26                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 7.77                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 35.71                  |                      |
| 05 12 23 00-0624 | LF  |     | 6" Junior I-Beam, 4.4 LB/LF .....         | 25.57                  | 8.29                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>         | -0.83                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>         | -1.47                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>       | -2.38                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>              | -3.30                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 46.43                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 2.61                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 9.00                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 41.35                  |                      |
| 05 12 23 00-0625 | LF  |     | 7" Junior I-Beam, 5.5 LB/LF .....         | 29.98                  | 8.88                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>         | -0.89                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>         | -1.64                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>       | -2.68                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>              | -3.73                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 58.05                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 3.27                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 11.25                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 51.70                  |                      |
| 05 12 23 00-0626 | LF  |     | 8" Junior I-Beam, 6.5 LB/LF .....         | 34.07                  | 9.48                 |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>         | -0.95                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>         | -1.80                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>       | -2.97                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>              | -4.13                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 68.61                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 3.86                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 13.29                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 61.10                  |                      |
| 05 12 23 00-0627 | LF  |     | 10" Junior I-Beam, 9 LB/LF .....          | 44.12                  | 10.83                |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>         | -1.08                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>         | -2.19                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>       | -3.65                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>              | -5.11                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 94.98                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 5.34                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 18.40                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 84.59                  |                      |
| 05 12 23 00-0628 | LF  |     | 12" Junior I-Beam, 11.8 LB/LF .....       | 56.05                  | 12.86                |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>         | -1.29                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>         | -2.69                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>       | -4.52                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>              | -6.35                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 124.51                 |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 7.00                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 24.12                  |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 110.89                 |                      |
| 05 12 23 00-0629 |     |     | <b>Round Stock</b> (05 12 23 00-0411)     |                        |                      |
| 05 12 23 00-0630 | LF  |     | 1/4" Carbon Steel Rounds, ASTM A108 ..... | 2.53                   |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 4.48                   |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 0.25                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 0.87                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 3.99                   |                      |
| 05 12 23 00-0631 | LF  |     | 3/8" Carbon Steel Rounds, ASTM A108 ..... | 4.04                   |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 8.83                   |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 0.50                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 1.71                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 7.87                   |                      |
| 05 12 23 00-0632 | LF  |     | 1/2" Carbon Steel Rounds, ASTM A108 ..... | 5.61                   |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 13.44                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 0.76                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 2.60                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 11.97                  |                      |
| 05 12 23 00-0633 | LF  |     | 5/8" Carbon Steel Rounds, ASTM A108 ..... | 8.57                   |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 22.40                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 1.26                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 4.34                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 19.95                  |                      |
| 05 12 23 00-0634 | LF  |     | 3/4" Carbon Steel Rounds, ASTM A108 ..... | 10.20                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 26.62                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 1.50                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 5.16                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 23.71                  |                      |
| 05 12 23 00-0635 | LF  |     | 7/8" Carbon Steel Rounds, ASTM A108 ..... | 11.89                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>       | 31.10                  |                      |
|                  |     |     | <i>For Aluminum, Add</i>                  | 1.75                   |                      |
|                  |     |     | <i>For Galvanized Steel, Add</i>          | 6.03                   |                      |
|                  |     |     | <i>For 304 Stainless Steel, Add</i>       | 27.70                  |                      |



| MINOR<br>CSI UOM DESCRIPTION                                   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 12 23 00-0636 LF 1" Carbon Steel Rounds, ASTM A108.....     | 17.38                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 47.39                     |                         |
| <i>For Aluminum, Add</i>                                       | 2.67                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 9.18                      |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 42.21                     |                         |
| 05 12 23 00-0637 LF 1-1/8" Carbon Steel Rounds, ASTM A108..... | 21.12                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 57.57                     |                         |
| <i>For Aluminum, Add</i>                                       | 3.24                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 11.15                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 51.27                     |                         |
| 05 12 23 00-0638 LF 1-1/4" Carbon Steel Rounds, ASTM A108..... | 25.20                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 67.74                     |                         |
| <i>For Aluminum, Add</i>                                       | 3.81                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 13.13                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 60.33                     |                         |
| 05 12 23 00-0639 LF 1-3/8" Carbon Steel Rounds, ASTM A108..... | 30.54                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 82.69                     |                         |
| <i>For Aluminum, Add</i>                                       | 4.65                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 16.02                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 73.64                     |                         |
| 05 12 23 00-0640 LF 1-1/2" Carbon Steel Rounds, ASTM A108..... | 33.99                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 90.72                     |                         |
| <i>For Aluminum, Add</i>                                       | 5.10                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 17.58                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 80.80                     |                         |
| 05 12 23 00-0641 LF 1-5/8" Carbon Steel Rounds, ASTM A108..... | 39.17                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 102.78                    |                         |
| <i>For Aluminum, Add</i>                                       | 5.78                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 19.91                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 91.54                     |                         |
| 05 12 23 00-0642 LF 1-3/4" Carbon Steel Rounds, ASTM A108..... | 46.78                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 119.62                    |                         |
| <i>For Aluminum, Add</i>                                       | 6.73                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 23.18                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 106.53                    |                         |
| 05 12 23 00-0643 LF 1-7/8" Carbon Steel Rounds, ASTM A108..... | 56.20                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 140.13                    |                         |
| <i>For Aluminum, Add</i>                                       | 7.88                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 27.15                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 124.80                    |                         |
| 05 12 23 00-0644 LF 2" Carbon Steel Rounds, ASTM A108.....     | 64.09                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 155.87                    |                         |
| <i>For Aluminum, Add</i>                                       | 8.77                      |                         |
| <i>For Galvanized Steel, Add</i>                               | 30.20                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 138.82                    |                         |
| 05 12 23 00-0645 LF 2-1/8" Carbon Steel Rounds, ASTM A108..... | 74.74                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 178.02                    |                         |
| <i>For Aluminum, Add</i>                                       | 10.01                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 34.49                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 158.55                    |                         |
| 05 12 23 00-0646 LF 2-1/4" Carbon Steel Rounds, ASTM A108..... | 84.52                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 200.16                    |                         |
| <i>For Aluminum, Add</i>                                       | 11.26                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 38.78                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 178.27                    |                         |
| 05 12 23 00-0647 LF 2-3/8" Carbon Steel Rounds, ASTM A108..... | 96.80                     |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 228.93                    |                         |
| <i>For Aluminum, Add</i>                                       | 12.88                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 44.35                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 203.89                    |                         |
| 05 12 23 00-0648 LF 2-1/2" Carbon Steel Rounds, ASTM A108..... | 106.77                    |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 246.72                    |                         |
| <i>For Aluminum, Add</i>                                       | 13.88                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 47.80                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 219.74                    |                         |
| 05 12 23 00-0649 LF 2-5/8" Carbon Steel Rounds, ASTM A108..... | 130.90                    |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 313.41                    |                         |
| <i>For Aluminum, Add</i>                                       | 17.63                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 60.72                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 279.13                    |                         |
| 05 12 23 00-0650 LF 2-3/4" Carbon Steel Rounds, ASTM A108..... | 149.05                    |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 357.41                    |                         |
| <i>For Aluminum, Add</i>                                       | 20.10                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 69.25                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 318.32                    |                         |
| 05 12 23 00-0651 LF 2-7/8 Carbon Steel Rounds, ASTM A108.....  | 166.22                    |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 398.27                    |                         |
| <i>For Aluminum, Add</i>                                       | 22.40                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 77.17                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 354.71                    |                         |
| 05 12 23 00-0652 LF 3" Carbon Steel Rounds, ASTM A108.....     | 174.34                    |                         |
| <i>For 316 Stainless Steel, Add</i>                            | 410.21                    |                         |
| <i>For Aluminum, Add</i>                                       | 23.07                     |                         |
| <i>For Galvanized Steel, Add</i>                               | 79.48                     |                         |
| <i>For 304 Stainless Steel, Add</i>                            | 365.34                    |                         |



**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR<br>CSI            | UOM | DESCRIPTION                                 | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 05 12 23 00-0653        | LF  | 3-1/8" Carbon Steel Rounds, ASTM A108 ..... | 181.59                    |                         |
|                         |     | For 316 Stainless Steel, Add                | 419.33                    |                         |
|                         |     | For Aluminum, Add                           | 23.59                     |                         |
|                         |     | For Galvanized Steel, Add                   | 81.24                     |                         |
|                         |     | For 304 Stainless Steel, Add                | 373.46                    |                         |
| 05 12 23 00-0654        | LF  | 3-1/4" Carbon Steel Rounds, ASTM A108 ..... | 191.32                    |                         |
|                         |     | For 316 Stainless Steel, Add                | 436.42                    |                         |
|                         |     | For Aluminum, Add                           | 24.55                     |                         |
|                         |     | For Galvanized Steel, Add                   | 84.56                     |                         |
|                         |     | For 304 Stainless Steel, Add                | 388.68                    |                         |
| 05 12 23 00-0655        | LF  | 3-1/2" Carbon Steel Rounds, ASTM A108 ..... | 233.49                    |                         |
|                         |     | For 316 Stainless Steel, Add                | 553.76                    |                         |
|                         |     | For Aluminum, Add                           | 31.15                     |                         |
|                         |     | For Galvanized Steel, Add                   | 107.29                    |                         |
|                         |     | For 304 Stainless Steel, Add                | 493.19                    |                         |
| 05 12 23 00-0656        | LF  | 3-5/8" Carbon Steel Rounds, ASTM A108 ..... | 259.51                    |                         |
|                         |     | For 316 Stainless Steel, Add                | 619.46                    |                         |
|                         |     | For Aluminum, Add                           | 34.84                     |                         |
|                         |     | For Galvanized Steel, Add                   | 120.02                    |                         |
|                         |     | For 304 Stainless Steel, Add                | 551.70                    |                         |
| 05 12 23 00-0657        | LF  | 3-3/4" Carbon Steel Rounds, ASTM A108 ..... | 278.50                    |                         |
|                         |     | For 316 Stainless Steel, Add                | 662.66                    |                         |
|                         |     | For Aluminum, Add                           | 37.27                     |                         |
|                         |     | For Galvanized Steel, Add                   | 128.39                    |                         |
|                         |     | For 304 Stainless Steel, Add                | 590.18                    |                         |
| 05 12 23 00-0658        | LF  | 4" Carbon Steel Rounds, ASTM A108 .....     | 312.68                    |                         |
|                         |     | For 316 Stainless Steel, Add                | 754.43                    |                         |
|                         |     | For Aluminum, Add                           | 42.44                     |                         |
|                         |     | For Galvanized Steel, Add                   | 146.17                    |                         |
|                         |     | For 304 Stainless Steel, Add                | 671.92                    |                         |
| <b>05 12 23 00-0659</b> |     | <b>Square Stock</b> (05 12 23 00-0411)      |                           |                         |
| 05 12 23 00-0660        | LF  | 3/8" Square Bar Stock .....                 | 2.01                      |                         |
|                         |     | For 316 Stainless Steel, Add                | 2.34                      |                         |
|                         |     | For Aluminum, Add                           | 0.13                      |                         |
|                         |     | For Galvanized Steel, Add                   | 0.45                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 2.08                      |                         |
| 05 12 23 00-0661        | LF  | 1/2" Square Bar Stock .....                 | 2.71                      |                         |
|                         |     | For 316 Stainless Steel, Add                | 4.16                      |                         |
|                         |     | For Aluminum, Add                           | 0.23                      |                         |
|                         |     | For Galvanized Steel, Add                   | 0.81                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 3.71                      |                         |
| 05 12 23 00-0662        | LF  | 5/8" Square Bar Stock .....                 | 3.60                      |                         |
|                         |     | For 316 Stainless Steel, Add                | 6.50                      |                         |
|                         |     | For Aluminum, Add                           | 0.37                      |                         |
|                         |     | For Galvanized Steel, Add                   | 1.26                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 5.79                      |                         |
| 05 12 23 00-0663        | LF  | 3/4" Square Bar Stock .....                 | 4.80                      |                         |
|                         |     | For 316 Stainless Steel, Add                | 9.34                      |                         |
|                         |     | For Aluminum, Add                           | 0.53                      |                         |
|                         |     | For Galvanized Steel, Add                   | 1.81                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 8.32                      |                         |
| 05 12 23 00-0664        | LF  | 7/8" Square Bar Stock .....                 | 6.25                      |                         |
|                         |     | For 316 Stainless Steel, Add                | 13.06                     |                         |
|                         |     | For Aluminum, Add                           | 0.73                      |                         |
|                         |     | For Galvanized Steel, Add                   | 2.53                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 11.63                     |                         |
| 05 12 23 00-0665        | LF  | 1" Square Bar Stock .....                   | 7.78                      |                         |
|                         |     | For 316 Stainless Steel, Add                | 16.67                     |                         |
|                         |     | For Aluminum, Add                           | 0.94                      |                         |
|                         |     | For Galvanized Steel, Add                   | 3.23                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 14.85                     |                         |
| 05 12 23 00-0666        | LF  | 1-1/4" Square Bar Stock .....               | 12.16                     |                         |
|                         |     | For 316 Stainless Steel, Add                | 26.02                     |                         |
|                         |     | For Aluminum, Add                           | 1.46                      |                         |
|                         |     | For Galvanized Steel, Add                   | 5.04                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 23.17                     |                         |
| 05 12 23 00-0667        | LF  | 1-1/2" Square Bar Stock .....               | 17.35                     |                         |
|                         |     | For 316 Stainless Steel, Add                | 37.47                     |                         |
|                         |     | For Aluminum, Add                           | 2.11                      |                         |
|                         |     | For Galvanized Steel, Add                   | 7.26                      |                         |
|                         |     | For 304 Stainless Steel, Add                | 33.37                     |                         |
| 05 12 23 00-0668        | LF  | 1-3/4" Square Bar Stock .....               | 25.68                     |                         |
|                         |     | For 316 Stainless Steel, Add                | 52.10                     |                         |
|                         |     | For Aluminum, Add                           | 2.93                      |                         |
|                         |     | For Galvanized Steel, Add                   | 10.09                     |                         |
|                         |     | For 304 Stainless Steel, Add                | 46.40                     |                         |
| 05 12 23 00-0669        | LF  | 2" Square Bar Stock .....                   | 36.61                     |                         |
|                         |     | For 316 Stainless Steel, Add                | 66.62                     |                         |
|                         |     | For Aluminum, Add                           | 3.75                      |                         |
|                         |     | For Galvanized Steel, Add                   | 12.91                     |                         |
|                         |     | For 304 Stainless Steel, Add                | 59.34                     |                         |



|                  | MINOR<br>CSI UOM DESCRIPTION   |  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|--|--|---------------------------|-------------------------|
| 05 12 23 00-0670 | <b>Steel Tubing</b> <small>(05 12 23 00-0411)</small><br>Note: General purpose low-carbon steel. |  |                           |                         |
| 05 12 23 00-0671 | <b>Square Steel Tubing</b> <small>(05 12 23 00-0670)</small>                                     |  |                           |                         |
| 05 12 23 00-0672 | <b>0.06" Wall Thickness</b> <small>(05 12 23 00-0671)</small>                                    |  |                           |                         |
| 05 12 23 00-0673 | LF 1/2" x 1/2" x 0.06" Square Steel Tubing.....  |  | 2.72                      | 0.60                    |
|                  | For >100 To 250, Deduct  |  | -0.06                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.13                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.22                     |                         |
|                  | For >1,000, Deduct   |  | -0.31                     |                         |
|                  | For Galvanized Steel, Add  |  | 1.18                      |                         |
| 05 12 23 00-0674 | LF 3/4" x 3/4" x 0.06" Square Steel Tubing.....  |  | 4.18                      | 0.96                    |
|                  | For >100 To 250, Deduct  |  | -0.10                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.20                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.34                     |                         |
|                  | For >1,000, Deduct   |  | -0.47                     |                         |
|                  | For Galvanized Steel, Add  |  | 1.80                      |                         |
| 05 12 23 00-0675 | LF 1" x 1" x 0.06" Square Steel Tubing.....  |  | 5.63                      | 1.73                    |
|                  | For >100 To 250, Deduct  |  | -0.13                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.27                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.45                     |                         |
|                  | For >1,000, Deduct   |  | -0.64                     |                         |
|                  | For Galvanized Steel, Add  |  | 2.42                      |                         |
| 05 12 23 00-0676 | LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing .....   |  | 7.45                      | 1.64                    |
|                  | For >100 To 250, Deduct  |  | -0.17                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.35                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.59                     |                         |
|                  | For >1,000, Deduct   |  | -0.83                     |                         |
|                  | For Galvanized Steel, Add  |  | 3.26                      |                         |
| 05 12 23 00-0677 | LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing .....   |  | 8.81                      | 1.99                    |
|                  | For >100 To 250, Deduct  |  | -0.20                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.42                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.71                     |                         |
|                  | For >1,000, Deduct   |  | -0.99                     |                         |
|                  | For Galvanized Steel, Add  |  | 3.82                      |                         |
| 05 12 23 00-0678 | <b>0.083" Wall Thickness</b> <small>(05 12 23 00-0671)</small>                                   |  |                           |                         |
| 05 12 23 00-0679 | LF 3/4" x 3/4" x 0.083" Square Steel Tubing.....   |  | 4.87                      | 1.12                    |
|                  | For >100 To 250, Deduct  |  | -0.11                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.23                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.39                     |                         |
|                  | For >1,000, Deduct   |  | -0.55                     |                         |
|                  | For Galvanized Steel, Add  |  | 2.10                      |                         |
| 05 12 23 00-0680 | LF 1" x 1" x 0.083" Square Steel Tubing.....   |  | 7.10                      | 1.53                    |
|                  | For >100 To 250, Deduct  |  | -0.15                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.33                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.56                     |                         |
|                  | For >1,000, Deduct   |  | -0.79                     |                         |
|                  | For Galvanized Steel, Add  |  | 3.14                      |                         |
| 05 12 23 00-0681 | LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing .....  |  | 8.57                      | 1.95                    |
|                  | For >100 To 250, Deduct  |  | -0.20                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.41                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.69                     |                         |
|                  | For >1,000, Deduct   |  | -0.97                     |                         |
|                  | For Galvanized Steel, Add  |  | 3.70                      |                         |
| 05 12 23 00-0682 | LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing .....  |  | 10.36                     | 2.37                    |
|                  | For >100 To 250, Deduct  |  | -0.24                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.50                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.83                     |                         |
|                  | For >1,000, Deduct   |  | -1.17                     |                         |
|                  | For Galvanized Steel, Add  |  | 4.46                      |                         |
| 05 12 23 00-0683 | LF 2" x 2" x 0.083" Square Steel Tubing.....   |  | 13.28                     | 3.16                    |
|                  | For >100 To 250, Deduct  |  | -0.32                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.65                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -1.09                     |                         |
|                  | For >1,000, Deduct   |  | -1.52                     |                         |
|                  | For Galvanized Steel, Add  |  | 5.62                      |                         |
| 05 12 23 00-0684 | <b>0.12" Wall Thickness</b> <small>(05 12 23 00-0671)</small>                                    |  |                           |                         |
| 05 12 23 00-0685 | LF 1" x 1" x 0.12" Square Steel Tubing.....  |  | 7.83                      | 1.82                    |
|                  | For >100 To 250, Deduct  |  | -0.18                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.38                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.64                     |                         |
|                  | For >1,000, Deduct   |  | -0.89                     |                         |
|                  | For Galvanized Steel, Add  |  | 3.34                      |                         |
| 05 12 23 00-0686 | LF 1-1/4" x 1-1/4" x 0.12" Square Steel Tubing .....   |  | 10.08                     | 2.35                    |
|                  | For >100 To 250, Deduct  |  | -0.23                     |                         |
|                  | For >250 To 500, Deduct  |  | -0.49                     |                         |
|                  | For >500 To 1,000, Deduct  |  | -0.82                     |                         |
|                  | For >1,000, Deduct   |  | -1.15                     |                         |
|                  | For Galvanized Steel, Add  |  | 4.32                      |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR                   | CSI | UOM | DESCRIPTION                                      | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 12 23 00-0687        | LF  |     | 1-1/2" x 1-1/2" x 0.12" Square Steel Tubing..... | 12.38                  | 2.86                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.29                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -0.60                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.00                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -1.41                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 5.31                   |                      |
| 05 12 23 00-0688        | LF  |     | 2" x 2" x 0.12" Square Steel Tubing.....         | 16.75                  | 3.90                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.39                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -0.81                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.36                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -1.91                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 7.16                   |                      |
| <b>05 12 23 00-0689</b> |     |     | <b>1/8" Wall Thickness</b> (05 12 23 00-0671)    |                        |                      |
| 05 12 23 00-0690        | LF  |     | 2" x 2" x 1/8" Square Steel Tubing.....          | 15.03                  | 4.05                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.41                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -0.78                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.29                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -1.80                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 5.97                   |                      |
| 05 12 23 00-0691        | LF  |     | 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....  | 19.84                  | 5.13                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.51                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.01                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.68                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -2.34                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 8.06                   |                      |
| 05 12 23 00-0692        | LF  |     | 3" x 3" x 1/8" Square Steel Tubing.....          | 23.23                  | 6.20                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.62                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.20                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.99                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -2.78                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 9.27                   |                      |
| 05 12 23 00-0693        | LF  |     | 3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....  | 26.91                  | 7.29                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.73                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.40                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -2.32                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -3.23                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 10.66                  |                      |
| 05 12 23 00-0694        | LF  |     | 4" x 4" x 1/8" Square Steel Tubing.....          | 29.62                  | 8.37                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.84                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.58                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -2.60                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -3.62                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 11.45                  |                      |
| <b>05 12 23 00-0695</b> |     |     | <b>3/16" Wall Thickness</b> (05 12 23 00-0671)   |                        |                      |
| 05 12 23 00-0696        | LF  |     | 2" x 2" x 3/16" Square Steel Tubing.....         | 17.04                  | 4.57                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.46                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -0.88                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.46                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -2.04                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 6.79                   |                      |
| 05 12 23 00-0697        | LF  |     | 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing..... | 22.06                  | 5.91                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.59                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.14                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -1.89                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -2.64                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 8.79                   |                      |
| 05 12 23 00-0698        | LF  |     | 3" x 3" x 3/16" Square Steel Tubing.....         | 27.11                  | 7.26                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.73                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.40                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -2.32                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -3.24                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 10.80                  |                      |
| 05 12 23 00-0699        | LF  |     | 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing..... | 32.16                  | 8.62                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -0.86                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.67                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -2.76                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -3.85                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 12.82                  |                      |
| 05 12 23 00-0700        | LF  |     | 4" x 4" x 3/16" Square Steel Tubing.....         | 37.17                  | 9.96                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -1.00                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -1.93                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -3.19                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -4.45                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 14.81                  |                      |
| 05 12 23 00-0701        | LF  |     | 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing..... | 42.22                  | 11.32                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                | -1.13                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                | -2.19                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>              | -3.62                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                     | -5.05                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                 | 16.82                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 12 23 00-0702 LF 5" x 5" x 3/16" Square Steel Tubing.....        | 47.23                     | 12.66                   |
| For >100 To 250, Deduct   | -1.27                     |                         |
| For >250 To 500, Deduct   | -2.45                     |                         |
| For >500 To 1,000, Deduct   | -4.05                     |                         |
| For >1,000, Deduct  | -5.65                     |                         |
| For Galvanized Steel, Add   | 18.82                     |                         |
| 05 12 23 00-0703 LF 6" x 6" x 3/16" Square Steel Tubing.....        | 57.33                     | 15.37                   |
| For >100 To 250, Deduct   | -1.54                     |                         |
| For >250 To 500, Deduct   | -2.97                     |                         |
| For >500 To 1,000, Deduct   | -4.92                     |                         |
| For >1,000, Deduct  | -6.86                     |                         |
| For Galvanized Steel, Add   | 22.84                     |                         |
| <b>05 12 23 00-0704 1/4" Wall Thickness (05 12 23 00-0671)</b>      |                           |                         |
| 05 12 23 00-0705 LF 2" x 2" x 1/4" Square Steel Tubing.....         | 18.21                     | 4.57                    |
| For >100 To 250, Deduct   | -0.46                     |                         |
| For >250 To 500, Deduct   | -0.91                     |                         |
| For >500 To 1,000, Deduct   | -1.52                     |                         |
| For >1,000, Deduct  | -2.13                     |                         |
| For Galvanized Steel, Add   | 7.51                      |                         |
| 05 12 23 00-0706 LF 2-1/2" x 2-1/2" x 1/4" Square Steel Tubing..... | 23.93                     | 6.01                    |
| For >100 To 250, Deduct   | -0.60                     |                         |
| For >250 To 500, Deduct   | -1.20                     |                         |
| For >500 To 1,000, Deduct   | -2.00                     |                         |
| For >1,000, Deduct  | -2.80                     |                         |
| For Galvanized Steel, Add   | 9.86                      |                         |
| 05 12 23 00-0707 LF 3" x 3" x 1/4" Square Steel Tubing.....         | 29.66                     | 7.45                    |
| For >100 To 250, Deduct   | -0.75                     |                         |
| For >250 To 500, Deduct   | -1.49                     |                         |
| For >500 To 1,000, Deduct   | -2.48                     |                         |
| For >1,000, Deduct  | -3.47                     |                         |
| For Galvanized Steel, Add   | 12.23                     |                         |
| 05 12 23 00-0708 LF 3-1/2" x 3-1/2" x 1/4" Square Steel Tubing..... | 35.37                     | 8.89                    |
| For >100 To 250, Deduct   | -0.89                     |                         |
| For >250 To 500, Deduct   | -1.77                     |                         |
| For >500 To 1,000, Deduct   | -2.95                     |                         |
| For >1,000, Deduct  | -4.13                     |                         |
| For Galvanized Steel, Add   | 14.58                     |                         |
| 05 12 23 00-0709 LF 4" x 4" x 1/4" Square Steel Tubing.....         | 41.10                     | 10.33                   |
| For >100 To 250, Deduct   | -1.03                     |                         |
| For >250 To 500, Deduct   | -2.06                     |                         |
| For >500 To 1,000, Deduct   | -3.43                     |                         |
| For >1,000, Deduct  | -4.81                     |                         |
| For Galvanized Steel, Add   | 16.94                     |                         |
| 05 12 23 00-0710 LF 4-1/2" x 4-1/2" x 1/4" Square Steel Tubing..... | 46.82                     | 11.76                   |
| For >100 To 250, Deduct   | -1.18                     |                         |
| For >250 To 500, Deduct   | -2.35                     |                         |
| For >500 To 1,000, Deduct   | -3.91                     |                         |
| For >1,000, Deduct  | -5.47                     |                         |
| For Galvanized Steel, Add   | 19.30                     |                         |
| 05 12 23 00-0711 LF 5" x 5" x 1/4" Square Steel Tubing.....         | 52.58                     | 13.21                   |
| For >100 To 250, Deduct   | -1.32                     |                         |
| For >250 To 500, Deduct   | -2.64                     |                         |
| For >500 To 1,000, Deduct   | -4.39                     |                         |
| For >1,000, Deduct  | -6.15                     |                         |
| For Galvanized Steel, Add   | 21.68                     |                         |
| 05 12 23 00-0712 LF 6" x 6" x 1/4" Square Steel Tubing.....         | 64.02                     | 16.09                   |
| For >100 To 250, Deduct   | -1.61                     |                         |
| For >250 To 500, Deduct   | -3.21                     |                         |
| For >500 To 1,000, Deduct   | -5.35                     |                         |
| For >1,000, Deduct  | -7.48                     |                         |
| For Galvanized Steel, Add   | 26.39                     |                         |
| <b>05 12 23 00-0713 Rectangular Steel Tubing (05 12 23 00-0670)</b> |                           |                         |
| <b>05 12 23 00-0714 3/16" Wall Thickness (05 12 23 00-0713)</b>     |                           |                         |
| 05 12 23 00-0715 LF 3" x 2" x 3/16" Square Steel Tubing.....        | 22.06                     | 5.91                    |
| For >100 To 250, Deduct   | -0.59                     |                         |
| For >250 To 500, Deduct   | -1.14                     |                         |
| For >500 To 1,000, Deduct   | -1.89                     |                         |
| For >1,000, Deduct  | -2.64                     |                         |
| For Galvanized Steel, Add   | 8.79                      |                         |
| 05 12 23 00-0716 LF 4" x 2" x 3/16" Square Steel Tubing.....        | 27.11                     | 7.26                    |
| For >100 To 250, Deduct   | -0.73                     |                         |
| For >250 To 500, Deduct   | -1.40                     |                         |
| For >500 To 1,000, Deduct   | -2.32                     |                         |
| For >1,000, Deduct  | -3.24                     |                         |
| For Galvanized Steel, Add   | 10.80                     |                         |
| 05 12 23 00-0717 LF 4" x 3" x 3/16" Square Steel Tubing.....        | 32.16                     | 8.62                    |
| For >100 To 250, Deduct   | -0.86                     |                         |
| For >250 To 500, Deduct   | -1.67                     |                         |
| For >500 To 1,000, Deduct   | -2.76                     |                         |
| For >1,000, Deduct  | -3.85                     |                         |
| For Galvanized Steel, Add   | 12.82                     |                         |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR                   | CSI | UOM | DESCRIPTION                                   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0718        | LF  |     | 5" x 2" x 3/16" Square Steel Tubing.....      | 32.16                  | 8.62                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -0.86                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.67                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -2.76                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -3.85                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 12.82                  |                      |
| 05 12 23 00-0719        | LF  |     | 5" x 3" x 3/16" Square Steel Tubing.....      | 37.17                  | 9.96                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.00                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.93                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.19                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -4.45                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 14.81                  |                      |
| 05 12 23 00-0720        | LF  |     | 5" x 4" x 3/16" Square Steel Tubing.....      | 42.22                  | 11.32                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.13                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -2.19                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.62                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -5.05                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 16.82                  |                      |
| 05 12 23 00-0721        | LF  |     | 6" x 2" x 3/16" Square Steel Tubing.....      | 37.17                  | 9.96                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.00                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.93                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.19                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -4.45                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 14.81                  |                      |
| 05 12 23 00-0722        | LF  |     | 6" x 3" x 3/16" Square Steel Tubing.....      | 42.22                  | 11.32                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.13                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -2.19                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.62                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -5.05                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 16.82                  |                      |
| 05 12 23 00-0723        | LF  |     | 6" x 4" x 3/16" Square Steel Tubing.....      | 47.23                  | 12.66                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.27                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -2.45                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -4.05                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -5.65                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 18.82                  |                      |
| <b>05 12 23 00-0724</b> |     |     | <b>1/4" Wall Thickness</b> (05 12 23 00-0713) |                        |                      |
| 05 12 23 00-0725        | LF  |     | 3" x 2" x 1/4" Square Steel Tubing.....       | 23.93                  | 6.01                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -0.60                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.20                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -2.00                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -2.80                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 9.86                   |                      |
| 05 12 23 00-0726        | LF  |     | 4" x 2" x 1/4" Square Steel Tubing.....       | 29.66                  | 7.45                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -0.75                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.49                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -2.48                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -3.47                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 12.23                  |                      |
| 05 12 23 00-0727        | LF  |     | 4" x 3" x 1/4" Square Steel Tubing.....       | 35.37                  | 8.89                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -0.89                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.77                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -2.95                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -4.13                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 14.58                  |                      |
| 05 12 23 00-0728        | LF  |     | 5" x 2" x 1/4" Square Steel Tubing.....       | 35.37                  | 8.89                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -0.89                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -1.77                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -2.95                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -4.13                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 14.58                  |                      |
| 05 12 23 00-0729        | LF  |     | 5" x 3" x 1/4" Square Steel Tubing.....       | 41.10                  | 10.33                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.03                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -2.06                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.43                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -4.81                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 16.94                  |                      |
| 05 12 23 00-0730        | LF  |     | 5" x 4" x 1/4" Square Steel Tubing.....       | 46.82                  | 11.76                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.18                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -2.35                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.91                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -5.47                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 19.30                  |                      |
| 05 12 23 00-0731        | LF  |     | 6" x 2" x 1/4" Square Steel Tubing.....       | 41.10                  | 10.33                |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>             | -1.03                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>             | -2.06                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>           | -3.43                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                  | -4.81                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>              | 16.94                  |                      |



|  | MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------------------------|-----|-----|--|------------------------|----------------------|
|  | 05 12 23 00-0732        | LF  |     | 6" x 3" x 1/4" Square Steel Tubing.....                        | 46.82                  | 11.76                |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -1.18                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -2.35                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -3.91                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -5.47                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 19.30                  |                      |
|  | 05 12 23 00-0733        | LF  |     | 6" x 4" x 1/4" Square Steel Tubing.....                        | 52.58                  | 13.21                |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -1.32                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -2.64                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -4.39                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -6.15                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 21.68                  |                      |
|  | <b>05 12 23 00-0734</b> |     |     | <b>Round Steel Tubing</b> <small>(05 12 23 00-0670)</small>    |                        |                      |
|  | <b>05 12 23 00-0735</b> |     |     | <b>0.065" Wall Thickness</b> <small>(05 12 23 00-0734)</small> |                        |                      |
|  | 05 12 23 00-0736        | LF  |     | 1" Diameter x 0.065" Round Steel Tubing.....                   | 4.86                   | 1.10                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.11                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.23                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.39                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -0.55                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 2.11                   |                      |
|  | 05 12 23 00-0737        | LF  |     | 1-1/4" Diameter x 0.065" Round Steel Tubing.....               | 6.16                   | 1.39                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.14                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.29                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.49                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -0.69                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 2.67                   |                      |
|  | 05 12 23 00-0738        | LF  |     | 1-1/2" Diameter x 0.065" Round Steel Tubing.....               | 7.47                   | 1.68                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.17                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.36                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.60                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -0.84                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 3.24                   |                      |
|  | 05 12 23 00-0739        | LF  |     | 2" Diameter x 0.065" Round Steel Tubing.....                   | 10.07                  | 2.28                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.23                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.48                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.81                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -1.13                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 4.36                   |                      |
|  | 05 12 23 00-0740        | LF  |     | 2-1/2" Diameter x 0.065" Round Steel Tubing.....               | 12.68                  | 2.86                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.29                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.60                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -1.02                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -1.43                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 5.49                   |                      |
|  | 05 12 23 00-0741        | LF  |     | 3" Diameter x 0.065" Round Steel Tubing.....                   | 15.27                  | 3.44                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.34                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.73                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -1.22                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -1.72                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 6.62                   |                      |
|  | 05 12 23 00-0742        | LF  |     | 3-1/2" Diameter x 0.065" Round Steel Tubing.....               | 17.88                  | 4.04                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.40                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.85                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -1.43                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -2.01                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 7.75                   |                      |
|  | 05 12 23 00-0743        | LF  |     | 4" Diameter x 0.065" Round Steel Tubing.....                   | 20.48                  | 4.62                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.46                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.97                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -1.64                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -2.31                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 8.88                   |                      |
|  | <b>05 12 23 00-0744</b> |     |     | <b>0.083" Wall Thickness</b> <small>(05 12 23 00-0734)</small> |                        |                      |
|  | 05 12 23 00-0745        | LF  |     | 1" Diameter x 0.083" Round Steel Tubing.....                   | 5.28                   | 1.21                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.12                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.25                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.42                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -0.60                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 2.28                   |                      |
|  | 05 12 23 00-0746        | LF  |     | 1-1/4" Diameter x 0.083" Round Steel Tubing.....               | 6.72                   | 1.53                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.15                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.32                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.54                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -0.76                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 2.90                   |                      |
|  | 05 12 23 00-0747        | LF  |     | 1-1/2" Diameter x 0.083" Round Steel Tubing.....               | 8.17                   | 1.86                 |
|  |                         |     |     | <i>For &gt;100 To 250, Deduct</i>                              | -0.19                  |                      |
|  |                         |     |     | <i>For &gt;250 To 500, Deduct</i>                              | -0.39                  |                      |
|  |                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>                            | -0.66                  |                      |
|  |                         |     |     | <i>For &gt;1,000, Deduct</i>                                   | -0.92                  |                      |
|  |                         |     |     | <i>For Galvanized Steel, Add</i>                               | 3.53                   |                      |

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

| MINOR                   | CSI | UOM | DESCRIPTION                                       | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 12 23 00-0748        | LF  |     | 2" Diameter x 0.083" Round Steel Tubing .....     | 11.04                  | 2.52                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.25                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.53                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -0.89                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -1.25                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 4.77                   |                      |
| 05 12 23 00-0749        | LF  |     | 2-1/2" Diameter x 0.083" Round Steel Tubing ..... | 13.93                  | 3.17                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.32                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.67                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.12                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -1.57                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 6.01                   |                      |
| 05 12 23 00-0750        | LF  |     | 3" Diameter x 0.083" Round Steel Tubing .....     | 16.82                  | 3.83                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.38                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.80                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.35                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -1.90                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 7.26                   |                      |
| 05 12 23 00-0751        | LF  |     | 3-1/2" Diameter x 0.083" Round Steel Tubing ..... | 19.70                  | 4.48                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.45                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.94                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.58                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -2.23                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 8.51                   |                      |
| 05 12 23 00-0752        | LF  |     | 4" Diameter x 0.083" Round Steel Tubing .....     | 22.58                  | 5.14                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.51                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -1.08                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.82                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -2.55                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 9.75                   |                      |
| <b>05 12 23 00-0753</b> |     |     | <b>0.125" Wall Thickness</b> (05 12 23 00-0734)   |                        |                      |
| 05 12 23 00-0754        | LF  |     | 2" Diameter x 0.125" Round Steel Tubing .....     | 11.79                  | 3.17                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.32                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.61                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.01                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -1.41                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 4.68                   |                      |
| 05 12 23 00-0755        | LF  |     | 2-1/2" Diameter x 0.125" Round Steel Tubing ..... | 14.94                  | 4.03                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.40                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.78                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.28                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -1.79                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 5.93                   |                      |
| 05 12 23 00-0756        | LF  |     | 3" Diameter x 0.125" Round Steel Tubing .....     | 18.08                  | 4.87                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.49                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -0.94                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.55                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -2.17                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 7.18                   |                      |
| 05 12 23 00-0757        | LF  |     | 3-1/2" Diameter x 0.125" Round Steel Tubing ..... | 21.21                  | 5.72                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.57                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -1.10                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -1.82                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -2.54                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 8.43                   |                      |
| 05 12 23 00-0758        | LF  |     | 4" Diameter x 0.125" Round Steel Tubing .....     | 24.35                  | 6.57                 |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>                 | -0.66                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>                 | -1.27                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>               | -2.09                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>                      | -2.92                  |                      |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 9.67                   |                      |
| <b>05 12 23 00-0759</b> |     |     | <b>Flat Steel Bar</b> (05 12 23 00-0411)          |                        |                      |
| <b>05 12 23 00-0760</b> |     |     | <b>1/8" Thick</b> (05 12 23 00-0759)              |                        |                      |
| 05 12 23 00-0761        | LF  |     | 1/8" Thick x 1" Wide Flat Steel Bar .....         | 3.41                   | 1.58                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 0.64                   |                      |
| 05 12 23 00-0762        | LF  |     | 1/8" Thick x 2" Wide Flat Steel Bar .....         | 5.29                   | 2.37                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 1.07                   |                      |
| 05 12 23 00-0763        | LF  |     | 1/8" Thick x 4" Wide Flat Steel Bar .....         | 8.15                   | 3.34                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 1.95                   |                      |
| 05 12 23 00-0764        | LF  |     | 1/8" Thick x 6" Wide Flat Steel Bar .....         | 11.05                  | 4.53                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 2.64                   |                      |
| <b>05 12 23 00-0765</b> |     |     | <b>3/16" Thick</b> (05 12 23 00-0759)             |                        |                      |
| 05 12 23 00-0766        | LF  |     | 3/16" Thick x 1" Wide Flat Steel Bar .....        | 4.52                   | 1.96                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 0.98                   |                      |
| 05 12 23 00-0767        | LF  |     | 3/16" Thick x 2" Wide Flat Steel Bar .....        | 7.15                   | 2.94                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 1.69                   |                      |
| 05 12 23 00-0768        | LF  |     | 3/16" Thick x 4" Wide Flat Steel Bar .....        | 9.69                   | 3.38                 |
|                         |     |     | <i>For Galvanized Steel, Add</i>                  | 2.86                   |                      |



|                          |           |
|--------------------------|-----------|
| <b>Metals</b>            | <b>05</b> |
| Structural Metal Framing | 05 10     |
| Structural Steel Framing | 05 12     |

05

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 05 12 23 00-0769 LF 3/16" Thick x 6" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>   | 13.41<br>3.95                               | 4.69                    |
| <b>05 12 23 00-0770 1/4" Thick</b> <small>(05 12 23 00-0759)</small>   |   |                         |
| 05 12 23 00-0771 LF 1/4" Thick x 1" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 4.67<br>0.97                                | 2.07                    |
| 05 12 23 00-0772 LF 1/4" Thick x 2" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 7.83<br>1.96                                | 3.11                    |
| 05 12 23 00-0773 LF 1/4" Thick x 4" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 11.46<br>3.79                               | 3.56                    |
| 05 12 23 00-0774 LF 1/4" Thick x 6" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 16.57<br>5.38                               | 5.26                    |
| <b>05 12 23 00-0775 3/8" Thick</b> <small>(05 12 23 00-0759)</small>   |   |                         |
| 05 12 23 00-0776 LF 3/8" Thick x 1" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 5.95<br>1.52                                | 2.34                    |
| 05 12 23 00-0777 LF 3/8" Thick x 2" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 9.79<br>2.81                                | 3.49                    |
| 05 12 23 00-0778 LF 3/8" Thick x 4" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 15.05<br>5.61                               | 3.99                    |
| 05 12 23 00-0779 LF 3/8" Thick x 6" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 21.63<br>7.90                               | 5.91                    |
| <b>05 12 23 00-0780 1/2" Thick</b> <small>(05 12 23 00-0759)</small>   |   |                         |
| 05 12 23 00-0781 LF 1/2" Thick x 1" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 7.00<br>1.95                                | 2.56                    |
| 05 12 23 00-0782 LF 1/2" Thick x 2" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 11.57<br>3.58                               | 3.86                    |
| 05 12 23 00-0783 LF 1/2" Thick x 4" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 16.44<br>6.10                               | 4.39                    |
| 05 12 23 00-0784 LF 1/2" Thick x 6" Wide Flat Steel Bar .....<br><i>For Galvanized Steel, Add</i>  | 29.40<br>12.17                              | 6.51                    |
| <b>05 12 23 00-0785 Flat Steel Plate</b> <small>(05 12 23 00-0411)</small>   |   |                         |
| 05 12 23 00-0786 SF 1/8" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i>  | 17.62<br>23.71<br>1.33<br>4.59<br>21.12     | 6.80                    |
| 05 12 23 00-0787 SF 3/16" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i> | 19.84<br>29.66<br>1.67<br>5.75<br>26.42     | 7.04                    |
| 05 12 23 00-0788 SF 1/4" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i>  | 23.66<br>37.82<br>2.13<br>7.33<br>33.69     | 7.89                    |
| 05 12 23 00-0789 SF 3/8" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i>  | 31.88<br>59.36<br>3.34<br>11.50<br>52.87    | 8.87                    |
| 05 12 23 00-0790 SF 1/2" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i>  | 37.76<br>73.95<br>4.16<br>14.33<br>65.86    | 9.76                    |
| 05 12 23 00-0791 SF 3/4" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i>  | 61.65<br>138.66<br>7.80<br>26.86<br>123.49  | 12.09                   |
| 05 12 23 00-0792 SF 1" Thick Flat Steel Plate .....<br><i>For 316 Stainless Steel, Add</i><br><i>For Aluminum, Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i>    | 82.22<br>189.86<br>10.68<br>36.78<br>169.09 | 15.11                   |

**05 13 Structural Stainless-Steel Framing** (05 10)

|   |       |  |
|---|-------|--|
| <b>05 13 00 00-0001 Stainless Steel Tube</b> <small>(05 13)</small> |       |  |
| 05 13 00 00-0002 LF 1" x 1" Stainless Steel Tube .....              | 37.21 |  |
| 05 13 00 00-0003 LF 1-1/2" x 1-1/2" Stainless Steel Tube .....      | 48.29 |  |
| 05 13 00 00-0004 LF 2" x 2" Stainless Steel Tube .....              | 65.81 |  |



|    |       |                             |
|----|-------|-----------------------------|
| 05 | 05    | Metals                      |
|    | 05 10 | Structural Metal Framing    |
|    | 05 14 | Structural Aluminum Framing |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**05 14 Structural Aluminum Framing** (05 10)

**05 14 13 Architecturally-Exposed Structural Aluminum Framing** (05 14)

**05 14 13 00-0001 Rolled Or Plate Shapes** (05 14 13)

Note: 1" through 10" member.

|                  |    |  |      |      |
|------------------|----|--|------|------|
| 05 14 13 00-0002 | LB | Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members .....    | 9.12 | 0.90 |
| 05 14 13 00-0003 | LB | Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members ..... | 8.03 | 0.84 |

**05 14 13 00-0004 Aluminum Extrusions** (05 14 13)

|                  |    |  |       |      |
|------------------|----|--|-------|------|
| 05 14 13 00-0005 | LB | Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members .....  | 14.99 | 3.74 |
| 05 14 13 00-0006 | LB | Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members ..... | 15.86 | 3.74 |

**05 14 13 00-0007 Aluminum Tubing** (05 14 13)

|                  |    |   |       |      |
|------------------|----|---|-------|------|
| 05 14 13 00-0008 | LB | Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members ..... | 13.45 | 2.33 |
| 05 14 13 00-0009 | LF | 1" x 1" Aluminum Tubing, 1/8" Wall Thickness .....                                    | 12.17 | 3.76 |
| 05 14 13 00-0010 | LF | 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness .....                            | 14.68 | 4.10 |
| 05 14 13 00-0011 | LF | 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness .....                            | 16.86 | 4.78 |
| 05 14 13 00-0012 | LF | 2" x 2" Aluminum Tubing, 1/8" Wall Thickness .....                                    | 20.01 | 5.14 |
| 05 14 13 00-0013 | LF | 4" x 4" Aluminum Tubing, 1/4" Wall Thickness .....                                    | 57.86 | 6.51 |
| 05 14 13 00-0014 | LF | 2" x 5" Aluminum Tubing, 1/4" Wall Thickness .....                                    | 47.42 | 5.82 |

**05 14 13 00-0015 Columns** (05 14 13)

Note: Baked on paint finish, load bearing.

**05 14 13 00-0016 Round Columns** (05 14 13 00-0015)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 05 14 13 00-0017 | LF | 6" Diameter Aluminum Column .....        | 53.42  | 7.37  |
| 05 14 13 00-0018 | LF | 8" Diameter Aluminum Column .....        | 71.03  | 10.55 |
| 05 14 13 00-0019 | LF | 10" Diameter Aluminum Column .....       | 86.73  | 11.86 |
| 05 14 13 00-0020 | LF | 12" Diameter Aluminum Column .....       | 130.50 | 12.42 |
| 05 14 13 00-0021 | LF | 15" Diameter Aluminum Column .....       | 166.64 | 14.39 |
| 05 14 13 00-0022 | EA | 6" Diameter Aluminum Base And Cap .....  | 103.80 | 13.74 |
| 05 14 13 00-0023 | EA | 8" Diameter Aluminum Base And Cap .....  | 118.88 | 14.83 |
| 05 14 13 00-0024 | EA | 10" Diameter Aluminum Base And Cap ..... | 150.23 | 16.48 |
| 05 14 13 00-0025 | EA | 12" Diameter Aluminum Base And Cap ..... | 260.49 | 17.58 |
| 05 14 13 00-0026 | EA | 15" Diameter Aluminum Base And Cap ..... | 399.43 | 19.23 |

**05 14 13 00-0027 Octagonal Columns** (05 14 13 00-0015)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 05 14 13 00-0028 | LF | 6" Diameter Aluminum Column .....        | 59.57  | 7.37  |
| 05 14 13 00-0029 | LF | 8" Diameter Aluminum Column .....        | 81.01  | 10.55 |
| 05 14 13 00-0030 | LF | 10" Diameter Aluminum Column .....       | 99.33  | 11.86 |
| 05 14 13 00-0031 | LF | 12" Diameter Aluminum Column .....       | 151.65 | 12.42 |
| 05 14 13 00-0032 | LF | 15" Diameter Aluminum Column .....       | 194.23 | 14.39 |
| 05 14 13 00-0033 | EA | 6" Diameter Aluminum Base And Cap .....  | 119.07 | 13.74 |
| 05 14 13 00-0034 | EA | 8" Diameter Aluminum Base And Cap .....  | 136.72 | 14.83 |
| 05 14 13 00-0035 | EA | 10" Diameter Aluminum Base And Cap ..... | 173.68 | 16.48 |
| 05 14 13 00-0036 | EA | 12" Diameter Aluminum Base And Cap ..... | 305.55 | 17.58 |
| 05 14 13 00-0037 | EA | 15" Diameter Aluminum Base And Cap ..... | 471.62 | 19.23 |

**05 14 13 00-0038 Fluted Columns** (05 14 13 00-0015)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 05 14 13 00-0039 | LF | 6" Diameter Aluminum Column .....        | 66.32  | 7.37  |
| 05 14 13 00-0040 | LF | 8" Diameter Aluminum Column .....        | 89.99  | 10.55 |
| 05 14 13 00-0041 | LF | 10" Diameter Aluminum Column .....       | 110.67 | 11.86 |
| 05 14 13 00-0042 | LF | 12" Diameter Aluminum Column .....       | 170.69 | 12.42 |
| 05 14 13 00-0043 | LF | 15" Diameter Aluminum Column .....       | 219.06 | 14.39 |
| 05 14 13 00-0044 | EA | 6" Diameter Aluminum Base And Cap .....  | 132.81 | 13.74 |
| 05 14 13 00-0045 | EA | 8" Diameter Aluminum Base And Cap .....  | 152.78 | 14.83 |
| 05 14 13 00-0046 | EA | 10" Diameter Aluminum Base And Cap ..... | 194.79 | 16.48 |
| 05 14 13 00-0047 | EA | 12" Diameter Aluminum Base And Cap ..... | 346.11 | 17.58 |
| 05 14 13 00-0048 | EA | 15" Diameter Aluminum Base And Cap ..... | 536.60 | 19.23 |

**05 14 13 00-0049 Square Columns** (05 14 13 00-0015)

|                  |    |                                 |        |       |
|------------------|----|---------------------------------|--------|-------|
| 05 14 13 00-0050 | LF | 6" Aluminum Column .....        | 70.93  | 7.37  |
| 05 14 13 00-0051 | LF | 8" Aluminum Column .....        | 96.13  | 10.55 |
| 05 14 13 00-0052 | LF | 10" Aluminum Column .....       | 118.42 | 11.86 |
| 05 14 13 00-0053 | LF | 12" Aluminum Column .....       | 183.71 | 12.42 |
| 05 14 13 00-0054 | LF | 15" Aluminum Column .....       | 236.04 | 14.39 |
| 05 14 13 00-0055 | EA | 6" Aluminum Base And Cap .....  | 142.21 | 13.74 |
| 05 14 13 00-0056 | EA | 8" Aluminum Base And Cap .....  | 163.76 | 14.83 |
| 05 14 13 00-0057 | EA | 10" Aluminum Base And Cap ..... | 209.22 | 16.48 |
| 05 14 13 00-0058 | EA | 12" Aluminum Base And Cap ..... | 373.84 | 17.58 |
| 05 14 13 00-0059 | EA | 15" Aluminum Base And Cap ..... | 581.03 | 19.23 |



|                             |           |           |
|-----------------------------|-----------|-----------|
| <b>Metals</b>               | <b>05</b> | <b>05</b> |
| Structural Metal Framing    | 05 10     |           |
| Structural Aluminum Framing | 05 14     |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |   |          |       |
|-------------------------|---|----------|-------|
| <b>05 14 13 00-0060</b> | <b>Ornamental Or Decorative Cap And Bases</b> <small>(05 14 13 00-0015)</small> |          |       |
| 05 14 13 00-0061        | EA 8" Corinthian Capital And Base .....   | 810.09   | 16.48 |
| 05 14 13 00-0062        | EA 10" Corinthian Capital And Base .....  | 1,192.51 | 19.23 |
| 05 14 13 00-0063        | EA 12" Corinthian Capital And Base .....  | 1,887.11 | 21.97 |
| 05 14 13 00-0064        | EA 8" Scamozzi Capital And Base .....   | 401.60   | 16.48 |
| 05 14 13 00-0065        | EA 10" Scamozzi Capital And Base .....  | 538.27   | 19.23 |
| 05 14 13 00-0066        | EA 12" Scamozzi Capital And Base .....  | 1,084.09 | 21.97 |

**05 15 Wire Rope Assemblies** (05 10)

**05 15 16 Steel Wire Rope Assemblies** (05 15)

|                         |  |       |      |
|-------------------------|--|-------|------|
| <b>05 15 16 00-0001</b> | <b>6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope</b> <small>(05 15 16)</small> |       |      |
| 05 15 16 00-0002        | LF 1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 1.57  | 0.11 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.28 |      |
| 05 15 16 00-0003        | LF 5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....         | 2.11  | 0.11 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.36 |      |
| 05 15 16 00-0004        | LF 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 2.51  | 0.22 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.42 |      |
| 05 15 16 00-0005        | LF 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....         | 3.04  | 0.22 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.49 |      |
| 05 15 16 00-0006        | LF 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 3.51  | 0.34 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.55 |      |
| 05 15 16 00-0007        | LF 9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....         | 4.31  | 0.45 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.66 |      |
| 05 15 16 00-0008        | LF 5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 5.15  | 0.45 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.78 |      |
| 05 15 16 00-0009        | LF 3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 7.15  | 0.79 |
|                         | <i>For &gt;500, Deduct</i> .....   | -1.07 |      |
| 05 15 16 00-0010        | LF 7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 9.60  | 0.91 |
|                         | <i>For &gt;500, Deduct</i> .....   | -1.44 |      |
| 05 15 16 00-0011        | LF 1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....            | 11.97 | 1.24 |
|                         | <i>For &gt;500, Deduct</i> .....   | -1.76 |      |
| 05 15 16 00-0012        | LF 1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....        | 14.80 | 1.58 |
|                         | <i>For &gt;500, Deduct</i> .....   | -2.17 |      |
| 05 15 16 00-0013        | LF 1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....        | 18.04 | 1.91 |
|                         | <i>For &gt;500, Deduct</i> .....   | -2.64 |      |

|                         |  |       |      |
|-------------------------|--|-------|------|
| <b>05 15 16 00-0014</b> | <b>6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope</b> <small>(05 15 16)</small> |       |      |
| 05 15 16 00-0015        | LF 1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 1.84  | 0.11 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.33 |      |
| 05 15 16 00-0016        | LF 5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....         | 2.38  | 0.11 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.42 |      |
| 05 15 16 00-0017        | LF 3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 2.96  | 0.22 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.51 |      |
| 05 15 16 00-0018        | LF 7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....         | 3.38  | 0.22 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.56 |      |
| 05 15 16 00-0019        | LF 1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 4.02  | 0.34 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.65 |      |
| 05 15 16 00-0020        | LF 9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....         | 4.64  | 0.45 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.73 |      |
| 05 15 16 00-0021        | LF 5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 5.42  | 0.45 |
|                         | <i>For &gt;500, Deduct</i> .....   | -0.84 |      |
| 05 15 16 00-0022        | LF 3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 7.96  | 0.79 |
|                         | <i>For &gt;500, Deduct</i> .....   | -1.24 |      |
| 05 15 16 00-0023        | LF 7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....          | 10.21 | 0.91 |
|                         | <i>For &gt;500, Deduct</i> .....   | -1.56 |      |

**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 15 16 00-0024        | LF  |     | 1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                | 12.57                  | 1.24                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.89                  |                      |
| 05 15 16 00-0025        | LF  |     | 1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....            | 16.08                  | 1.58                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -2.41                  |                      |
| 05 15 16 00-0026        | LF  |     | 1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....            | 19.57                  | 1.91                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -2.95                  |                      |
| <b>05 15 16 00-0027</b> |     |     | <b>6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope <sup>(05 15 16)</sup></b>                              |                        |                      |
| 05 15 16 00-0028        | LF  |     | 1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                       | 1.46                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.25                  |                      |
| 05 15 16 00-0029        | LF  |     | 5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                      | 1.98                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.34                  |                      |
| 05 15 16 00-0030        | LF  |     | 3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                       | 2.36                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.39                  |                      |
| 05 15 16 00-0031        | LF  |     | 7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                      | 2.78                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.44                  |                      |
| 05 15 16 00-0032        | LF  |     | 1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                       | 3.35                   | 0.34                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.51                  |                      |
| 05 15 16 00-0033        | LF  |     | 9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                      | 4.24                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.65                  |                      |
| 05 15 16 00-0034        | LF  |     | 5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                       | 4.95                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.74                  |                      |
| 05 15 16 00-0035        | LF  |     | 3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                       | 6.96                   | 0.79                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.04                  |                      |
| 05 15 16 00-0036        | LF  |     | 7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....                                       | 8.53                   | 0.91                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.22                  |                      |
| 05 15 16 00-0037        | LF  |     | 1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....   | 10.84                  | 1.24                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.53                  |                      |
| <b>05 15 16 00-0038</b> |     |     | <b>6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <sup>(05 15 16)</sup></b>                       |                        |                      |
| 05 15 16 00-0039        | LF  |     | 1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                | 1.44                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.25                  |                      |
| 05 15 16 00-0040        | LF  |     | 5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                               | 1.91                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.32                  |                      |
| 05 15 16 00-0041        | LF  |     | 3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                | 2.36                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.39                  |                      |
| 05 15 16 00-0042        | LF  |     | 7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                               | 2.78                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.44                  |                      |
| 05 15 16 00-0043        | LF  |     | 1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                | 3.50                   | 0.34                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.54                  |                      |
| 05 15 16 00-0044        | LF  |     | 9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                               | 4.17                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.63                  |                      |
| 05 15 16 00-0045        | LF  |     | 5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                | 5.22                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.80                  |                      |
| 05 15 16 00-0046        | LF  |     | 3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                | 7.29                   | 0.79                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.10                  |                      |
| 05 15 16 00-0047        | LF  |     | 7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                | 9.53                   | 0.91                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.42                  |                      |
| 05 15 16 00-0048        | LF  |     | 1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....                                  | 11.77                  | 1.24                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.73                  |                      |
| <b>05 15 16 00-0049</b> |     |     | <b>6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <sup>(05 15 16)</sup></b> |                        |                      |
| 05 15 16 00-0050        | LF  |     | 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....          | 2.67                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.45                  |                      |
| 05 15 16 00-0051        | LF  |     | 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....         | 3.15                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.51                  |                      |
| 05 15 16 00-0052        | LF  |     | 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....          | 3.68                   | 0.34                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.58                  |                      |
| 05 15 16 00-0053        | LF  |     | 9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....         | 4.95                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.79                  |                      |
| 05 15 16 00-0054        | LF  |     | 5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....          | 5.46                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -0.85                  |                      |
| 05 15 16 00-0055        | LF  |     | 3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....          | 7.46                   | 0.79                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.14                  |                      |
| 05 15 16 00-0056        | LF  |     | 7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....          | 9.57                   | 0.91                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....   | -1.43                  |                      |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 05 15 16 00-0057        | LF  |     | 1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                               | 12.61                  | 1.24                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.88                  |                      |
| 05 15 16 00-0058        | LF  |     | 1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                           | 15.28                  | 1.58                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -2.26                  |                      |
| 05 15 16 00-0059        | LF  |     | 1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                           | 18.44                  | 1.91                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -2.72                  |                      |
| <br>                    |     |     |   |                        |                      |
| <b>05 15 16 00-0060</b> |     |     | <b>6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small></b>                |                        |                      |
| 05 15 16 00-0061        | LF  |     | 3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                             | 2.74                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.46                  |                      |
| 05 15 16 00-0062        | LF  |     | 7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                            | 3.33                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.55                  |                      |
| 05 15 16 00-0063        | LF  |     | 1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                             | 3.93                   | 0.34                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.63                  |                      |
| 05 15 16 00-0064        | LF  |     | 9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                            | 5.50                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.90                  |                      |
| 05 15 16 00-0065        | LF  |     | 5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                             | 5.55                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.86                  |                      |
| 05 15 16 00-0066        | LF  |     | 3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                             | 7.64                   | 0.79                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.17                  |                      |
| 05 15 16 00-0067        | LF  |     | 7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                             | 10.11                  | 0.91                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.54                  |                      |
| 05 15 16 00-0068        | LF  |     | 1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....                               | 12.79                  | 1.24                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.92                  |                      |
| <br>                    |     |     |   |                        |                      |
| <b>05 15 16 00-0069</b> |     |     | <b>19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope <small>(05 15 16)</small></b> |                        |                      |
| 05 15 16 00-0070        | LF  |     | 1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....              | 2.83                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.52                  |                      |
| 05 15 16 00-0071        | LF  |     | 5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....             | 3.06                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.55                  |                      |
| 05 15 16 00-0072        | LF  |     | 3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....              | 3.60                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.64                  |                      |
| 05 15 16 00-0073        | LF  |     | 7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....             | 4.84                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.85                  |                      |
| 05 15 16 00-0074        | LF  |     | 1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....              | 5.51                   | 0.22                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.98                  |                      |
| 05 15 16 00-0075        | LF  |     | 9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....             | 6.37                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.08                  |                      |
| 05 15 16 00-0076        | LF  |     | 5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....              | 7.58                   | 0.45                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.27                  |                      |
| 05 15 16 00-0077        | LF  |     | 3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....              | 10.44                  | 0.67                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -1.74                  |                      |
| <br>                    |     |     |   |                        |                      |
| <b>05 15 16 00-0078</b> |     |     | <b>7x7, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small></b>   |                        |                      |
| 05 15 16 00-0079        | LF  |     | 1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....   | 0.32                   | 0.08                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.04                  |                      |
| 05 15 16 00-0080        | LF  |     | 3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....   | 0.37                   | 0.09                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.05                  |                      |
| 05 15 16 00-0081        | LF  |     | 1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....  | 0.42                   | 0.10                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.05                  |                      |
| 05 15 16 00-0082        | LF  |     | 5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....   | 0.48                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.06                  |                      |
| 05 15 16 00-0083        | LF  |     | 3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....   | 0.59                   | 0.11                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.08                  |                      |
| <br>                    |     |     |   |                        |                      |
| <b>05 15 16 00-0084</b> |     |     | <b>7x19, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small></b>  |                        |                      |
| 05 15 16 00-0085        | LF  |     | 1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable.....   | 0.58                   | 0.10                 |
|                         |     |     | <i>For &gt;500, Deduct</i> .....  | -0.08                  |                      |

**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 15 16 00-0086 LF 5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....<br><i>For &gt;500, Deduct</i> | 0.62<br>-0.09             | 0.11                    |
| 05 15 16 00-0087 LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....<br><i>For &gt;500, Deduct</i> | 0.72<br>-0.10             | 0.11                    |
| 05 15 16 00-0088 LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....<br><i>For &gt;500, Deduct</i>  | 0.84<br>-0.13             | 0.11                    |
| 05 15 16 00-0089 LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....<br><i>For &gt;500, Deduct</i> | 1.27<br>-0.19             | 0.11                    |
| 05 15 16 00-0090 LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable .....<br><i>For &gt;500, Deduct</i>  | 1.71<br>-0.26             | 0.11                    |
| <b>05 15 16 00-0091 Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)</b>                             |                           |                         |
| 05 15 16 00-0092 EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                        | 14.26                     | 3.38                    |
| 05 15 16 00-0093 EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                       | 16.10                     | 3.38                    |
| 05 15 16 00-0094 EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                        | 18.14                     | 3.38                    |
| 05 15 16 00-0095 EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                       | 23.75                     | 3.38                    |
| 05 15 16 00-0096 EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                        | 23.78                     | 3.38                    |
| 05 15 16 00-0097 EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                       | 23.78                     | 3.38                    |
| 05 15 16 00-0098 EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                        | 25.67                     | 3.38                    |
| 05 15 16 00-0099 EA 3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                        | 46.75                     | 5.19                    |
| 05 15 16 00-0100 EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                        | 55.21                     | 6.32                    |
| 05 15 16 00-0101 EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                          | 98.13                     | 10.37                   |
| 05 15 16 00-0102 EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                      | 140.73                    | 14.10                   |
| 05 15 16 00-0103 EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....                      | 140.73                    | 14.10                   |
| <b>05 15 16 00-0104 Galvanized Steel, Wire Rope Clips (05 15 16)</b>  |                           |                         |
| 05 15 16 00-0105 EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 16.38                     | 3.38                    |
| 05 15 16 00-0106 EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip .....                                      | 16.69                     | 3.38                    |
| 05 15 16 00-0107 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 18.86                     | 3.38                    |
| 05 15 16 00-0108 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip .....                                      | 19.19                     | 3.38                    |
| 05 15 16 00-0109 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 19.67                     | 3.38                    |
| 05 15 16 00-0110 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip .....                                      | 24.31                     | 3.38                    |
| 05 15 16 00-0111 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 24.67                     | 3.38                    |
| 05 15 16 00-0112 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip .....                                      | 28.06                     | 3.38                    |
| 05 15 16 00-0113 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 28.55                     | 3.38                    |
| 05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 39.32                     | 4.51                    |
| 05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip .....                                       | 59.04                     | 6.77                    |
| 05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip .....   | 64.63                     | 6.77                    |
| 05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip .....                                     | 76.32                     | 9.02                    |
| 05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip .....                                     | 110.90                    | 13.54                   |
| <b>05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)</b>  |                           |                         |
| 05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket .....   | 92.39                     | 3.38                    |
| 05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket .....  | 147.29                    | 3.38                    |
| 05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket .....   | 151.75                    | 4.51                    |
| 05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket .....  | 180.48                    | 5.64                    |
| 05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket .....   | 180.48                    | 5.64                    |
| 05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket .....  | 264.27                    | 12.41                   |
| 05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket .....   | 264.27                    | 12.41                   |
| 05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket .....   | 338.07                    | 23.69                   |
| 05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket .....   | 455.15                    | 33.84                   |
| 05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket .....   | 640.96                    | 51.89                   |
| 05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket .....   | 842.43                    | 81.22                   |
| 05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket .....   | 980.84                    | 93.63                   |
| <b>05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)</b>  |                           |                         |
| 05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket .....   | 74.35                     | 3.38                    |
| 05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket .....  | 100.59                    | 3.38                    |
| 05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket .....   | 100.59                    | 3.38                    |
| 05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket .....  | 125.43                    | 4.51                    |
| 05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket .....   | 126.66                    | 4.51                    |
| 05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket .....  | 173.90                    | 7.90                    |
| 05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket .....   | 179.27                    | 9.02                    |
| 05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket .....   | 221.83                    | 14.66                   |
| 05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket .....   | 286.89                    | 21.43                   |
| 05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket .....   | 410.34                    | 29.33                   |
| 05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket .....   | 508.74                    | 40.61                   |
| 05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket .....   | 690.07                    | 63.17                   |
| <b>05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)</b>                                       |                           |                         |
| 05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket .....  | 154.61                    | 3.38                    |
| 05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket .....   | 158.65                    | 3.38                    |
| 05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket .....  | 158.65                    | 3.38                    |
| 05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket .....   | 177.34                    | 6.77                    |
| 05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket .....  | 177.34                    | 6.77                    |



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 05 15 16 00-0151   | EA  |     | 9/16" Galvanized Steel, Open Spelter Socket .....  | 232.68                 | 11.28                |
| 05 15 16 00-0152   | EA  |     | 5/8" Galvanized Steel, Open Spelter Socket .....   | 232.68                 | 11.28                |
| 05 15 16 00-0153   | EA  |     | 3/4" Galvanized Steel, Open Spelter Socket .....   | 294.77                 | 16.92                |
| 05 15 16 00-0154   | EA  |     | 7/8" Galvanized Steel, Open Spelter Socket .....   | 441.09                 | 28.20                |
| 05 15 16 00-0155   | EA  |     | 1" Galvanized Steel, Open Spelter Socket .....   | 801.91                 | 43.99                |
| 05 15 16 00-0156   | EA  |     | 1-1/8" Galvanized Steel, Open Spelter Socket .....   | 943.33                 | 71.07                |
| 05 15 16 00-0157   | EA  |     | 1-1/4" Galvanized Steel, Open Spelter Socket .....   | 1,275.03               | 93.63                |
| <b>05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)</b>          |     |     |  |                        |                      |
| 05 15 16 00-0159   | EA  |     | 1/4" Galvanized Steel, Closed Spelter Socket .....   | 129.65                 | 3.38                 |
| 05 15 16 00-0160   | EA  |     | 5/16" Galvanized Steel, Closed Spelter Socket .....  | 130.17                 | 3.38                 |
| 05 15 16 00-0161   | EA  |     | 3/8" Galvanized Steel, Closed Spelter Socket .....   | 130.17                 | 3.38                 |
| 05 15 16 00-0162   | EA  |     | 7/16" Galvanized Steel, Closed Spelter Socket .....  | 145.94                 | 5.64                 |
| 05 15 16 00-0163   | EA  |     | 1/2" Galvanized Steel, Closed Spelter Socket .....   | 145.94                 | 5.64                 |
| 05 15 16 00-0164   | EA  |     | 9/16" Galvanized Steel, Closed Spelter Socket .....  | 204.33                 | 10.15                |
| 05 15 16 00-0165   | EA  |     | 5/8" Galvanized Steel, Closed Spelter Socket .....   | 204.33                 | 10.15                |
| 05 15 16 00-0166   | EA  |     | 3/4" Galvanized Steel, Closed Spelter Socket .....   | 250.70                 | 14.66                |
| 05 15 16 00-0167   | EA  |     | 7/8" Galvanized Steel, Closed Spelter Socket .....   | 366.07                 | 22.56                |
| 05 15 16 00-0168   | EA  |     | 1" Galvanized Steel, Closed Spelter Socket .....   | 552.87                 | 34.97                |
| 05 15 16 00-0169   | EA  |     | 1-1/8" Galvanized Steel, Closed Spelter Socket .....   | 723.78                 | 47.38                |
| 05 15 16 00-0170   | EA  |     | 1-1/4" Galvanized Steel, Closed Spelter Socket .....   | 912.00                 | 63.17                |
| <b>05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)</b>             |     |     |  |                        |                      |
| 05 15 16 00-0172   | EA  |     | 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle .....  | 89.18                  | 3.38                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -11.69                 |                      |
| 05 15 16 00-0173   | EA  |     | 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle .....   | 95.66                  | 3.38                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -12.66                 |                      |
| 05 15 16 00-0174   | EA  |     | 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle .....  | 107.66                 | 3.38                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -14.46                 |                      |
| 05 15 16 00-0175   | EA  |     | 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle .....  | 119.22                 | 4.51                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -15.04                 |                      |
| 05 15 16 00-0176   | EA  |     | 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle .....  | 156.93                 | 5.64                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -20.01                 |                      |
| 05 15 16 00-0177   | EA  |     | 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 178.28                 | 6.77                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -22.67                 |                      |
| 05 15 16 00-0178   | EA  |     | 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle .....  | 181.34                 | 9.02                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -21.99                 |                      |
| 05 15 16 00-0179   | EA  |     | 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle .....  | 224.46                 | 9.02                 |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -28.03                 |                      |
| 05 15 16 00-0180   | EA  |     | 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 254.92                 | 10.15                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -32.19                 |                      |
| 05 15 16 00-0181   | EA  |     | 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle .....  | 244.50                 | 12.41                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -29.48                 |                      |
| 05 15 16 00-0182   | EA  |     | 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle .....  | 278.23                 | 14.66                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -32.83                 |                      |
| 05 15 16 00-0183   | EA  |     | 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 343.82                 | 15.79                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -41.90                 |                      |
| 05 15 16 00-0184   | EA  |     | 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle .....   | 413.63                 | 19.18                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -50.37                 |                      |
| 05 15 16 00-0185   | EA  |     | 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 470.33                 | 27.07                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -54.43                 |                      |
| 05 15 16 00-0186   | EA  |     | 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle .....   | 570.60                 | 31.59                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -66.79                 |                      |
| 05 15 16 00-0187   | EA  |     | 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle .....  | 488.70                 | 27.07                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -57.19                 |                      |
| 05 15 16 00-0188   | EA  |     | 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 558.74                 | 34.97                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -62.66                 |                      |
| 05 15 16 00-0189   | EA  |     | 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle .....   | 766.61                 | 43.99                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -88.96                 |                      |
| 05 15 16 00-0190   | EA  |     | 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle .....   | 856.99                 | 51.89                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -97.78                 |                      |
| 05 15 16 00-0191   | EA  |     | 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 954.36                 | 63.17                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -105.55                |                      |
| 05 15 16 00-0192   | EA  |     | 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle .....   | 1,152.79               | 71.07                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -130.62                |                      |
| 05 15 16 00-0193   | EA  |     | 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle .....   | 1,494.32               | 81.22                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -175.80                |                      |
| 05 15 16 00-0194   | EA  |     | 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle .....   | 1,476.74               | 86.86                |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -169.45                |                      |
| 05 15 16 00-0195   | EA  |     | 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle .....   | 1,623.24               | 112.80               |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -175.80                |                      |
| 05 15 16 00-0196   | EA  |     | 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle .....   | 2,929.24               | 146.65               |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -354.78                |                      |
| 05 15 16 00-0197   | EA  |     | 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle .....   | 4,799.43               | 282.01               |
|  |     |     | For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct .....  | -550.70                |                      |
| <b>05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)</b> |     |     |  |                        |                      |
| 05 15 16 00-0199   | EA  |     | 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....  | 19.10                  |                      |
| 05 15 16 00-0200   | EA  |     | 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt..... | 19.19                  |                      |
| 05 15 16 00-0201   | EA  |     | 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....    | 21.63                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....           | 25.84                     |                         |
| 05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....            | 25.72                     |                         |
| 05 15 16 00-0204 EA 5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....             | 35.18                     |                         |
| 05 15 16 00-0205 EA 3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....             | 42.26                     |                         |
| 05 15 16 00-0206 EA 7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....           | 57.12                     |                         |
| 05 15 16 00-0207 EA 1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....             | 76.63                     |                         |
| 05 15 16 00-0208 EA 1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....               | 111.54                    |                         |
| 05 15 16 00-0209 EA 1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....          | 132.71                    |                         |
| 05 15 16 00-0210 EA 1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....           | 241.28                    |                         |
| 05 15 16 00-0211 EA 1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....           | 276.74                    |                         |
| 05 15 16 00-0212 EA 2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....               | 342.28                    |                         |
| <b>05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)</b>   |                           |                         |
| 05 15 16 00-0214 EA 1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....       | 25.13                     |                         |
| 05 15 16 00-0215 EA 1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....       | 22.67                     |                         |
| 05 15 16 00-0216 EA 5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....  | 30.77                     |                         |
| 05 15 16 00-0217 EA 5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....  | 20.64                     |                         |
| 05 15 16 00-0218 EA 3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....   | 27.88                     |                         |
| 05 15 16 00-0219 EA 3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....       | 42.05                     |                         |
| 05 15 16 00-0220 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....       | 40.77                     |                         |
| 05 15 16 00-0221 EA 3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....   | 38.74                     |                         |
| 05 15 16 00-0222 EA 3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....       | 34.72                     |                         |
| 05 15 16 00-0223 EA 3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....       | 35.85                     |                         |
| 05 15 16 00-0224 EA 1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....         | 31.68                     |                         |
| 05 15 16 00-0225 EA 1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....         | 25.25                     |                         |
| 05 15 16 00-0226 EA 1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 32.90                     |                         |
| 05 15 16 00-0227 EA 1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....         | 44.95                     |                         |
| 05 15 16 00-0228 EA 1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 34.12                     |                         |
| 05 15 16 00-0229 EA 1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....         | 54.93                     |                         |
| 05 15 16 00-0230 EA 1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....         | 48.35                     |                         |
| 05 15 16 00-0231 EA 1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....        | 44.11                     |                         |
| 05 15 16 00-0232 EA 1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....        | 51.89                     |                         |
| 05 15 16 00-0233 EA 5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 52.66                     |                         |
| 05 15 16 00-0234 EA 5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt..... | 46.88                     |                         |
| 05 15 16 00-0235 EA 5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 59.00                     |                         |
| 05 15 16 00-0236 EA 5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 67.65                     |                         |
| 05 15 16 00-0237 EA 5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....    | 78.03                     |                         |
| 05 15 16 00-0238 EA 5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....    | 64.45                     |                         |
| 05 15 16 00-0239 EA 3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt..... | 64.41                     |                         |
| 05 15 16 00-0240 EA 3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 65.70                     |                         |
| 05 15 16 00-0241 EA 3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....     | 72.64                     |                         |
| 05 15 16 00-0242 EA 3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....    | 78.35                     |                         |
| 05 15 16 00-0243 EA 3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....    | 91.57                     |                         |
| 05 15 16 00-0244 EA 1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....           | 121.27                    |                         |
| <b>05 15 19 Stainless Steel Wire Rope Assemblies (05 15 19)</b>   |                           |                         |
| <b>05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)</b>   |                           |                         |
| 05 15 19 00-0002 LF 1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....   | 0.27                      | 0.08                    |
| For >500, Deduct  | -0.03                     |                         |
| 05 15 19 00-0003 LF 3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....   | 0.35                      | 0.09                    |
| For >500, Deduct  | -0.04                     |                         |
| 05 15 19 00-0004 LF 1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....  | 0.45                      | 0.10                    |
| For >500, Deduct  | -0.06                     |                         |
| 05 15 19 00-0005 LF 5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....   | 0.57                      | 0.11                    |
| For >500, Deduct  | -0.08                     |                         |
| 05 15 19 00-0006 LF 3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....   | 0.72                      | 0.11                    |
| For >500, Deduct  | -0.10                     |                         |
| <b>05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)</b>  |                           |                         |
| 05 15 19 00-0008 LF 1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....   | 0.51                      | 0.10                    |
| For >500, Deduct  | -0.07                     |                         |
| 05 15 19 00-0009 LF 5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....  | 0.58                      | 0.11                    |
| For >500, Deduct  | -0.08                     |                         |
| 05 15 19 00-0010 LF 3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....  | 0.68                      | 0.11                    |
| For >500, Deduct  | -0.09                     |                         |
| 05 15 19 00-0011 LF 1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....   | 0.85                      | 0.11                    |
| For >500, Deduct  | -0.13                     |                         |
| 05 15 19 00-0012 LF 5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....  | 1.29                      | 0.11                    |
| For >500, Deduct  | -0.20                     |                         |
| 05 15 19 00-0013 LF 3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....   | 1.93                      | 0.22                    |
| For >500, Deduct  | -0.30                     |                         |
| <b>05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)</b>   |                           |                         |
| 05 15 19 00-0015 LF 1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....   | 0.27                      | 0.08                    |
| For >500, Deduct  | -0.03                     |                         |
| 05 15 19 00-0016 LF 3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....   | 0.35                      | 0.09                    |
| For >500, Deduct  | -0.04                     |                         |



|  |                                 |              |
|--|---------------------------------|--------------|
|  | <b>Metals</b>                   | <b>05</b>    |
|  | <b>Structural Metal Framing</b> | <b>05 10</b> |
|  | <b>Wire Rope Assemblies</b>     | <b>05 15</b> |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 15 19 00-0017        | LF  |     | 1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i>   | 0.45<br>-0.06          | 0.10                 |
| 05 15 19 00-0018        | LF  |     | 5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i>  | 0.57<br>-0.08          | 0.11                 |
| 05 15 19 00-0019        | LF  |     | 3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i>  | 0.72<br>-0.10          | 0.11                 |
| <b>05 15 19 00-0020</b> |     |     | <b>7x19, 316 Stainless Steel, Aircraft Cable</b> <small>(05 15 19)</small>                   |                        |                      |
| 05 15 19 00-0021        | LF  |     | 1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i>  | 0.51<br>-0.07          | 0.10                 |
| 05 15 19 00-0022        | LF  |     | 5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i> | 0.58<br>-0.08          | 0.11                 |
| 05 15 19 00-0023        | LF  |     | 3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i> | 0.68<br>-0.09          | 0.11                 |
| 05 15 19 00-0024        | LF  |     | 1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i>  | 0.85<br>-0.13          | 0.11                 |
| 05 15 19 00-0025        | LF  |     | 5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i> | 1.29<br>-0.20          | 0.11                 |
| 05 15 19 00-0026        | LF  |     | 3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....<br><i>For &gt;500, Deduct</i>  | 1.93<br>-0.30          | 0.11                 |

**05 20 Metal Joists** (05)

Note: Includes all connecting bolts and welds.

**05 21 Steel Joist Framing** (05 20)

**05 21 19 Open Web Steel Joist Framing** (05 21)

|                  |     |  |                              |        |
|------------------|-----|--|------------------------------|--------|
| 05 21 19 00-0001 | TON | H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging.....<br><i>For Welded Cross Bridging, Add</i><br><i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>      | 2,681.84<br>243.62<br>224.37 | 194.90 |
| 05 21 19 00-0002 | TON | H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging .....<br><i>For Welded Cross Bridging, Add</i><br><i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>   | 2,458.05<br>216.55<br>208.35 | 182.71 |
| 05 21 19 00-0003 | TON | LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging.....<br><i>For Welded Cross Bridging, Add</i><br><i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>     | 2,949.99<br>224.87<br>264.05 | 182.71 |
| 05 21 19 00-0004 | TON | DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging .....<br><i>For Welded Cross Bridging, Add</i><br><i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i> | 3,341.17<br>224.87<br>310.99 | 182.71 |
| 05 21 19 00-0005 | TON | CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging .....<br><i>For Welded Cross Bridging, Add</i><br><i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>            | 2,963.56<br>243.62<br>258.18 | 182.71 |
| 05 21 19 00-0006 | TON | SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging.....<br><i>For Welded Cross Bridging, Add</i><br><i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>         | 3,683.46<br>224.87<br>352.07 | 182.71 |

**05 30 Metal Decking** (05)

Note: Includes all connecting bolts and welds.

**05 31 Steel Decking** (05 30)

**05 31 13 Steel Floor Decking** (05 31)

Note: Floor or roof decking

**05 31 13 00-0001 Open Ribbed Galvanized Steel Deck** (05 31 13)

|                  |    |  |   |      |
|------------------|----|--|---|------|
| 05 31 13 00-0002 | SF | 1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....<br><i>For Painted, Deduct</i><br><i>For Perforated Or Slotted, Add</i><br><i>For Site Installed Insulation Between Ribs, Add</i><br><i>For Up To 100, Add</i><br><i>For &gt;100 To 500, Add</i><br><i>For &gt;500 To 1,500, Add</i> | 3.19<br>-0.13<br>0.13<br>0.85<br>0.90<br>0.51<br>0.16 | 0.51 |
| 05 31 13 00-0003 | SF | 1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....<br><i>For Painted, Deduct</i><br><i>For Perforated Or Slotted, Add</i><br><i>For Site Installed Insulation Between Ribs, Add</i><br><i>For Up To 100, Add</i><br><i>For &gt;100 To 500, Add</i><br><i>For &gt;500 To 1,500, Add</i> | 3.63<br>-0.14<br>0.14<br>0.96<br>1.03<br>0.59<br>0.19 | 0.59 |
| 05 31 13 00-0004 | SF | 1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....<br><i>For Painted, Deduct</i><br><i>For Perforated Or Slotted, Add</i><br><i>For Site Installed Insulation Between Ribs, Add</i><br><i>For Up To 100, Add</i><br><i>For &gt;100 To 500, Add</i><br><i>For &gt;500 To 1,500, Add</i> | 4.56<br>-0.18<br>0.18<br>1.21<br>1.28<br>0.73<br>0.23 | 0.72 |



|              |                      |
|--------------|----------------------|
| <b>05</b>    | <b>Metals</b>        |
| <b>05 30</b> | <b>Metal Decking</b> |
| <b>05 31</b> | <b>Steel Decking</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 31 13 00-0005 SF 1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck..... | 3.49                      | 0.57                    |
| For Painted, Deduct  | -0.14                     |                         |
| For Perforated Or Slotted, Add   | 0.14                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 0.93                      |                         |
| For Up To 100, Add   | 0.99                      |                         |
| For >100 To 500, Add   | 0.56                      |                         |
| For >500 To 1,500, Add   | 0.18                      |                         |
| 05 31 13 00-0006 SF 1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck..... | 4.02                      | 0.66                    |
| For Painted, Deduct  | -0.16                     |                         |
| For Perforated Or Slotted, Add   | 0.16                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.07                      |                         |
| For Up To 100, Add   | 1.14                      |                         |
| For >100 To 500, Add   | 0.65                      |                         |
| For >500 To 1,500, Add   | 0.21                      |                         |
| 05 31 13 00-0007 SF 1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck..... | 5.05                      | 0.80                    |
| For Painted, Deduct  | -0.20                     |                         |
| For Perforated Or Slotted, Add   | 0.20                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.34                      |                         |
| For Up To 100, Add   | 1.41                      |                         |
| For >100 To 500, Add   | 0.81                      |                         |
| For >500 To 1,500, Add   | 0.25                      |                         |
| 05 31 13 00-0008 SF 2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....     | 3.95                      | 0.61                    |
| For Painted, Deduct  | -0.16                     |                         |
| For Perforated Or Slotted, Add   | 0.16                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.04                      |                         |
| For Up To 100, Add   | 1.07                      |                         |
| For >100 To 500, Add   | 0.62                      |                         |
| For >500 To 1,500, Add   | 0.19                      |                         |
| 05 31 13 00-0009 SF 2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....     | 4.59                      | 0.70                    |
| For Painted, Deduct  | -0.19                     |                         |
| For Perforated Or Slotted, Add   | 0.19                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.21                      |                         |
| For Up To 100, Add   | 1.23                      |                         |
| For >100 To 500, Add   | 0.72                      |                         |
| For >500 To 1,500, Add   | 0.22                      |                         |
| 05 31 13 00-0010 SF 2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....     | 5.66                      | 0.78                    |
| For Painted, Deduct  | -0.23                     |                         |
| For Perforated Or Slotted, Add   | 0.23                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.49                      |                         |
| For Up To 100, Add   | 1.45                      |                         |
| For >100 To 500, Add   | 0.86                      |                         |
| For >500 To 1,500, Add   | 0.25                      |                         |
| 05 31 13 00-0011 SF 2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....     | 7.10                      | 0.85                    |
| For Painted, Deduct  | -0.30                     |                         |
| For Perforated Or Slotted, Add   | 0.30                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.85                      |                         |
| For Up To 100, Add   | 1.66                      |                         |
| For >100 To 500, Add   | 1.03                      |                         |
| For >500 To 1,500, Add   | 0.27                      |                         |
| 05 31 13 00-0012 SF 3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....     | 4.41                      | 0.64                    |
| For Painted, Deduct  | -0.18                     |                         |
| For Perforated Or Slotted, Add   | 0.18                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.16                      |                         |
| For Up To 100, Add   | 1.15                      |                         |
| For >100 To 500, Add   | 0.68                      |                         |
| For >500 To 1,500, Add   | 0.20                      |                         |
| 05 31 13 00-0013 SF 3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....     | 5.17                      | 0.72                    |
| For Painted, Deduct  | -0.21                     |                         |
| For Perforated Or Slotted, Add   | 0.21                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.36                      |                         |
| For Up To 100, Add   | 1.34                      |                         |
| For >100 To 500, Add   | 0.79                      |                         |
| For >500 To 1,500, Add   | 0.23                      |                         |
| 05 31 13 00-0014 SF 3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....     | 6.43                      | 0.89                    |
| For Painted, Deduct  | -0.27                     |                         |
| For Perforated Or Slotted, Add   | 0.27                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 1.69                      |                         |
| For Up To 100, Add   | 1.65                      |                         |
| For >100 To 500, Add   | 0.98                      |                         |
| For >500 To 1,500, Add   | 0.28                      |                         |
| 05 31 13 00-0015 SF 3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....     | 8.09                      | 1.08                    |
| For Painted, Deduct  | -0.34                     |                         |
| For Perforated Or Slotted, Add   | 0.34                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 2.12                      |                         |
| For Up To 100, Add   | 2.02                      |                         |
| For >100 To 500, Add   | 1.21                      |                         |
| For >500 To 1,500, Add   | 0.34                      |                         |
| 05 31 13 00-0016 SF 4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck..... | 11.68                     |                         |
| For Painted, Deduct  | -0.54                     |                         |
| For Perforated Or Slotted, Add   | 0.54                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 2.99                      |                         |
| For Up To 100, Add   | 2.05                      |                         |
| For >100 To 500, Add   | 1.46                      |                         |
| For >500 To 1,500, Add   | 0.25                      |                         |



|  |               |           |
|--|---------------|-----------|
|  | <b>Metals</b> | <b>05</b> |
|  | Metal Decking | 05 30     |
|  | Steel Decking | 05 31     |

05

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 31 13 00-0017 | SF  |     | 4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....  | 14.73                  | 0.89                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.68                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.68                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 3.77                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.48                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.81                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.28                   |                      |
| 05 31 13 00-0018 | SF  |     | 6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....  | 13.68                  | 0.89                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.63                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.63                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 3.50                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.38                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.70                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.28                   |                      |
| 05 31 13 00-0019 | SF  |     | 6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....  | 14.34                  | 1.08                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.65                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.65                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 3.69                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.65                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.84                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.34                   |                      |
| 05 31 13 00-0020 | SF  |     | 6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....  | 17.91                  | 1.31                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.81                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.81                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 4.60                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.28                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 2.29                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.41                   |                      |
| 05 31 13 00-0021 | SF  |     | 7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....  | 15.85                  | 1.19                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.72                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.72                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 4.07                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.92                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 2.03                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.37                   |                      |
| 05 31 13 00-0022 | SF  |     | 7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....  | 19.75                  | 1.44                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.90                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.90                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 5.07                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.60                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 2.52                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.45                   |                      |
| 05 31 13 00-0023 |     |     | <b>Cellular Galvanized Steel Deck</b> <small>(05 31 13)</small>   |                        |                      |
|                  |     |     | Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels. |                        |                      |
| 05 31 13 00-0024 | SF  |     | 1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....  | 10.48                  | 0.92                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.47                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.47                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 2.10                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 2.70                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.07                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.39                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.29                   |                      |
| 05 31 13 00-0025 | SF  |     | 1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....  | 11.41                  | 1.21                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.49                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.49                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 2.23                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 2.96                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.51                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.60                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.38                   |                      |
| 05 31 13 00-0026 | SF  |     | 1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....  | 12.85                  | 0.96                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.58                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.58                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 2.62                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 3.30                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.36                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.64                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.30                   |                      |
| 05 31 13 00-0027 | SF  |     | 1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....  | 13.93                  | 1.27                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.62                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.62                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 2.77                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 3.60                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.83                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.87                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.40                   |                      |
| 05 31 13 00-0028 | SF  |     | 3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....  | 14.72                  | 1.17                 |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.66                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.66                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 2.99                   |                      |
|                  |     |     | <i>For Site Installed Insulation Between Ribs, Add</i>  | 3.79                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.76                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.90                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.36                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 31 13 00-0029 SF 3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....     | 17.60                     | 1.34                    |
| For Painted, Deduct  | -0.80                     |                         |
| For Perforated Or Slotted, Add   | 0.80                      |                         |
| For Insulated Cells, Add   | 3.58                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 4.52                      |                         |
| For Up To 100, Add   | 3.26                      |                         |
| For >100 To 500, Add   | 2.26                      |                         |
| For >500 To 1,500, Add   | 0.42                      |                         |
| 05 31 13 00-0030 SF 3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....     | 19.73                     | 1.44                    |
| For Painted, Deduct  | -0.90                     |                         |
| For Perforated Or Slotted, Add   | 0.90                      |                         |
| For Insulated Cells, Add   | 4.03                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 5.07                      |                         |
| For Up To 100, Add   | 3.59                      |                         |
| For >100 To 500, Add   | 2.51                      |                         |
| For >500 To 1,500, Add   | 0.45                      |                         |
| 05 31 13 00-0031 SF 3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....     | 21.33                     | 1.55                    |
| For Painted, Deduct  | -0.97                     |                         |
| For Perforated Or Slotted, Add   | 0.97                      |                         |
| For Insulated Cells, Add   | 4.37                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 5.48                      |                         |
| For Up To 100, Add   | 3.87                      |                         |
| For >100 To 500, Add   | 2.71                      |                         |
| For >500 To 1,500, Add   | 0.48                      |                         |
| 05 31 13 00-0032 SF 4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck..... | 22.83                     | 1.17                    |
| For Painted, Deduct  | -1.07                     |                         |
| For Perforated Or Slotted, Add   | 1.07                      |                         |
| For Insulated Cells, Add   | 4.81                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 5.82                      |                         |
| For Up To 100, Add   | 3.60                      |                         |
| For >100 To 500, Add   | 2.72                      |                         |
| For >500 To 1,500, Add   | 0.37                      |                         |
| 05 31 13 00-0033 SF 4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck..... | 24.28                     | 1.36                    |
| For Painted, Deduct  | -1.13                     |                         |
| For Perforated Or Slotted, Add   | 1.13                      |                         |
| For Insulated Cells, Add   | 5.08                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 6.20                      |                         |
| For Up To 100, Add   | 3.96                      |                         |
| For >100 To 500, Add   | 2.94                      |                         |
| For >500 To 1,500, Add   | 0.43                      |                         |
| 05 31 13 00-0034 SF 4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck..... | 25.66                     | 1.46                    |
| For Painted, Deduct  | -1.19                     |                         |
| For Perforated Or Slotted, Add   | 1.19                      |                         |
| For Insulated Cells, Add   | 5.36                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 6.55                      |                         |
| For Up To 100, Add   | 4.21                      |                         |
| For >100 To 500, Add   | 3.12                      |                         |
| For >500 To 1,500, Add   | 0.46                      |                         |
| 05 31 13 00-0035 SF 4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck..... | 27.36                     | 1.57                    |
| For Painted, Deduct  | -1.27                     |                         |
| For Perforated Or Slotted, Add   | 1.27                      |                         |
| For Insulated Cells, Add   | 5.72                      |                         |
| For Site Installed Insulation Between Ribs, Add                                  | 6.99                      |                         |
| For Up To 100, Add   | 4.50                      |                         |
| For >100 To 500, Add   | 3.32                      |                         |
| For >500 To 1,500, Add   | 0.49                      |                         |

### 05 31 23 Steel Roof Decking (05 31)

See CSI section 05 31 13 00-0000 for Steel floor or roof decking.

### 05 31 33 Steel Form Decking (05 31)

#### 05 31 33 00-0001 Open Ribbed Galvanized Steel Form Deck (05 31 33)

|  |       |  |
|--|-------|--|
| 05 31 33 00-0002 SF 9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck..... | 2.89  |  |
| For Painted, Deduct  | -0.10 |  |
| For Perforated Or Slotted, Add   | 0.10  |  |
| For Up To 100, Add   | 1.15  |  |
| For >100 To 500, Add   | 0.58  |  |
| For >500 To 1,500, Add   | 0.24  |  |
| 05 31 33 00-0003 SF 9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck..... | 3.07  |  |
| For Painted, Deduct  | -0.10 |  |
| For Perforated Or Slotted, Add   | 0.10  |  |
| For Up To 100, Add   | 1.22  |  |
| For >100 To 500, Add   | 0.61  |  |
| For >500 To 1,500, Add   | 0.25  |  |
| 05 31 33 00-0004 SF 9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck..... | 3.40  |  |
| For Painted, Deduct  | -0.11 |  |
| For Perforated Or Slotted, Add   | 0.11  |  |
| For Up To 100, Add   | 1.39  |  |
| For >100 To 500, Add   | 0.69  |  |
| For >500 To 1,500, Add   | 0.29  |  |



|               |           |           |
|---------------|-----------|-----------|
| <b>Metals</b> | <b>05</b> | <b>05</b> |
| Metal Decking | 05 30     |           |
| Steel Decking | 05 31     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 31 33 00-0005 SF 9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....    | 3.67                      |                         |
| <i>For Painted, Deduct</i>  | -0.12                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.12                      |                         |
| <i>For Up To 100, Add</i>   | 1.56                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.76                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.33                      |                         |
| 05 31 33 00-0006 SF 15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....   | 3.47                      |                         |
| <i>For Painted, Deduct</i>  | -0.12                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.12                      |                         |
| <i>For Up To 100, Add</i>   | 1.26                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.65                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.25                      |                         |
| 05 31 33 00-0007 SF 15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck.....   | 3.64                      |                         |
| <i>For Painted, Deduct</i>  | -0.13                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.13                      |                         |
| <i>For Up To 100, Add</i>   | 1.32                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.68                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.27                      |                         |
| 05 31 33 00-0008 SF 15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....   | 3.84                      |                         |
| <i>For Painted, Deduct</i>  | -0.13                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.13                      |                         |
| <i>For Up To 100, Add</i>   | 1.44                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.74                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.29                      |                         |
| 05 31 33 00-0009 SF 15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....   | 4.09                      |                         |
| <i>For Painted, Deduct</i>  | -0.14                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.14                      |                         |
| <i>For Up To 100, Add</i>   | 1.60                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.81                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.33                      |                         |
| 05 31 33 00-0010 SF 1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck..... | 4.32                      |                         |
| <i>For Painted, Deduct</i>  | -0.15                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.15                      |                         |
| <i>For Up To 100, Add</i>   | 1.67                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.85                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.35                      |                         |
| 05 31 33 00-0011 SF 1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck..... | 4.71                      |                         |
| <i>For Painted, Deduct</i>  | -0.16                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.16                      |                         |
| <i>For Up To 100, Add</i>   | 1.76                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 0.90                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.36                      |                         |
| 05 31 33 00-0012 SF 1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck..... | 5.40                      |                         |
| <i>For Painted, Deduct</i>  | -0.19                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.19                      |                         |
| <i>For Up To 100, Add</i>   | 1.93                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 1.00                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.39                      |                         |
| 05 31 33 00-0013 SF 1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck..... | 5.98                      |                         |
| <i>For Painted, Deduct</i>  | -0.21                     |                         |
| <i>For Perforated Or Slotted, Add</i>   | 0.21                      |                         |
| <i>For Up To 100, Add</i>   | 2.17                      |                         |
| <i>For &gt;100 To 500, Add</i>  | 1.12                      |                         |
| <i>For &gt;500 To 1,500, Add</i>  | 0.44                      |                         |

**05 36 Composite Metal Decking** (05 30)

**05 36 00 00-0001 Composite Open Ribbed Galvanized Steel Deck** (05 36)

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.

|  |       |  |
|--|-------|--|
| 05 36 00 00-0002 SF 1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck..... | 4.36  |  |
| <i>For Painted, Deduct</i>   | -0.15 |  |
| <i>For Perforated Or Slotted, Add</i>  | 0.15  |  |
| <i>For Up To 100, Add</i>  | 1.68  |  |
| <i>For &gt;100 To 500, Add</i>   | 0.85  |  |
| <i>For &gt;500 To 1,500, Add</i>   | 0.35  |  |
| 05 36 00 00-0003 SF 1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck..... | 4.66  |  |
| <i>For Painted, Deduct</i>   | -0.16 |  |
| <i>For Perforated Or Slotted, Add</i>  | 0.16  |  |
| <i>For Up To 100, Add</i>  | 1.85  |  |
| <i>For &gt;100 To 500, Add</i>   | 0.93  |  |
| <i>For &gt;500 To 1,500, Add</i>   | 0.39  |  |
| 05 36 00 00-0004 SF 1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck..... | 5.21  |  |
| <i>For Painted, Deduct</i>   | -0.17 |  |
| <i>For Perforated Or Slotted, Add</i>  | 0.17  |  |
| <i>For Up To 100, Add</i>  | 2.24  |  |
| <i>For &gt;100 To 500, Add</i>   | 1.09  |  |
| <i>For &gt;500 To 1,500, Add</i>   | 0.48  |  |
| 05 36 00 00-0005 SF 1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck..... | 5.69  |  |
| <i>For Painted, Deduct</i>   | -0.17 |  |
| <i>For Perforated Or Slotted, Add</i>  | 0.17  |  |
| <i>For Up To 100, Add</i>  | 2.62  |  |
| <i>For &gt;100 To 500, Add</i>   | 1.25  |  |
| <i>For &gt;500 To 1,500, Add</i>   | 0.57  |  |

**05 Metals****05 30 Metal Decking****05 36 Composite Metal Decking**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 05 36 00 00-0006 | SF  |     | 2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 4.66                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.16                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.16                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 1.85                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 0.93                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.39                   |                      |
| 05 36 00 00-0007 | SF  |     | 2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 5.04                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.17                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.03                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.01                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.43                   |                      |
| 05 36 00 00-0008 | SF  |     | 2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 5.59                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.18                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.18                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.42                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.18                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.52                   |                      |
| 05 36 00 00-0009 | SF  |     | 2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 6.10                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.18                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.18                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.81                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.34                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.61                   |                      |
| 05 36 00 00-0010 | SF  |     | 3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 4.90                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.17                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 1.93                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 0.97                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.40                   |                      |
| 05 36 00 00-0011 | SF  |     | 3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 5.25                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.17                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.15                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.07                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.45                   |                      |
| 05 36 00 00-0012 | SF  |     | 3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 5.89                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.18                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.18                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 2.60                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.26                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.56                   |                      |
| 05 36 00 00-0013 | SF  |     | 3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....  | 6.57                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.20                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.20                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.04                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.45                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.66                   |                      |
| 05 36 00 00-0014 |     |     | <b>Composite Cellular Galvanized Steel Deck</b> <small>(05 36)</small>  |                        |                      |
|                  |     |     | Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels. |                        |                      |
| 05 36 00 00-0015 | SF  |     | 1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....  | 7.99                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.28                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.28                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 1.24                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.04                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.55                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.62                   |                      |
| 05 36 00 00-0016 | SF  |     | 1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....  | 8.54                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.29                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.29                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 1.30                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.34                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.68                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.69                   |                      |
| 05 36 00 00-0017 | SF  |     | 1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....  | 8.65                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.29                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.29                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 1.30                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.45                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.73                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.72                   |                      |
| 05 36 00 00-0018 | SF  |     | 1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....  | 9.18                   |                      |
|                  |     |     | <i>For Painted, Deduct</i>  | -0.30                  |                      |
|                  |     |     | <i>For Perforated Or Slotted, Add</i>   | 0.30                   |                      |
|                  |     |     | <i>For Insulated Cells, Add</i>   | 1.35                   |                      |
|                  |     |     | <i>For Up To 100, Add</i>   | 3.78                   |                      |
|                  |     |     | <i>For &gt;100 To 500, Add</i>  | 1.87                   |                      |
|                  |     |     | <i>For &gt;500 To 1,500, Add</i>  | 0.80                   |                      |



|                                |              |           |
|--------------------------------|--------------|-----------|
| <b>Metals</b>                  | <b>05</b>    | <b>05</b> |
| <b>Metal Decking</b>           | <b>05 30</b> |           |
| <b>Composite Metal Decking</b> | <b>05 36</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 36 00 00-0019 SF 1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck..... | 9.84                      |                         |
| For Painted, Deduct  | -0.32                     |                         |
| For Perforated Or Slotted, Add   | 0.32                      |                         |
| For Insulated Cells, Add   | 1.44                      |                         |
| For Up To 100, Add   | 4.09                      |                         |
| For >100 To 500, Add   | 2.02                      |                         |
| For >500 To 1,500, Add   | 0.86                      |                         |
| 05 36 00 00-0020 SF 1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck..... | 9.95                      |                         |
| For Painted, Deduct  | -0.32                     |                         |
| For Perforated Or Slotted, Add   | 0.32                      |                         |
| For Insulated Cells, Add   | 1.44                      |                         |
| For Up To 100, Add   | 4.20                      |                         |
| For >100 To 500, Add   | 2.06                      |                         |
| For >500 To 1,500, Add   | 0.89                      |                         |
| 05 36 00 00-0021 SF 1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck..... | 10.48                     |                         |
| For Painted, Deduct  | -0.33                     |                         |
| For Perforated Or Slotted, Add   | 0.33                      |                         |
| For Insulated Cells, Add   | 1.49                      |                         |
| For Up To 100, Add   | 4.53                      |                         |
| For >100 To 500, Add   | 2.21                      |                         |
| For >500 To 1,500, Add   | 0.97                      |                         |
| 05 36 00 00-0022 SF 2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....     | 8.25                      |                         |
| For Painted, Deduct  | -0.28                     |                         |
| For Perforated Or Slotted, Add   | 0.28                      |                         |
| For Insulated Cells, Add   | 1.26                      |                         |
| For Up To 100, Add   | 3.21                      |                         |
| For >100 To 500, Add   | 1.62                      |                         |
| For >500 To 1,500, Add   | 0.66                      |                         |
| 05 36 00 00-0023 SF 2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....     | 8.72                      |                         |
| For Painted, Deduct  | -0.29                     |                         |
| For Perforated Or Slotted, Add   | 0.29                      |                         |
| For Insulated Cells, Add   | 1.32                      |                         |
| For Up To 100, Add   | 3.46                      |                         |
| For >100 To 500, Add   | 1.73                      |                         |
| For >500 To 1,500, Add   | 0.72                      |                         |
| 05 36 00 00-0024 SF 2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....     | 8.82                      |                         |
| For Painted, Deduct  | -0.29                     |                         |
| For Perforated Or Slotted, Add   | 0.29                      |                         |
| For Insulated Cells, Add   | 1.32                      |                         |
| For Up To 100, Add   | 3.56                      |                         |
| For >100 To 500, Add   | 1.77                      |                         |
| For >500 To 1,500, Add   | 0.74                      |                         |
| 05 36 00 00-0025 SF 2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....     | 9.48                      |                         |
| For Painted, Deduct  | -0.31                     |                         |
| For Perforated Or Slotted, Add   | 0.31                      |                         |
| For Insulated Cells, Add   | 1.39                      |                         |
| For Up To 100, Add   | 3.92                      |                         |
| For >100 To 500, Add   | 1.94                      |                         |
| For >500 To 1,500, Add   | 0.83                      |                         |
| 05 36 00 00-0026 SF 2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....     | 10.02                     |                         |
| For Painted, Deduct  | -0.32                     |                         |
| For Perforated Or Slotted, Add   | 0.32                      |                         |
| For Insulated Cells, Add   | 1.45                      |                         |
| For Up To 100, Add   | 4.21                      |                         |
| For >100 To 500, Add   | 2.07                      |                         |
| For >500 To 1,500, Add   | 0.89                      |                         |
| 05 36 00 00-0027 SF 2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....     | 10.17                     |                         |
| For Painted, Deduct  | -0.32                     |                         |
| For Perforated Or Slotted, Add   | 0.32                      |                         |
| For Insulated Cells, Add   | 1.45                      |                         |
| For Up To 100, Add   | 4.36                      |                         |
| For >100 To 500, Add   | 2.13                      |                         |
| For >500 To 1,500, Add   | 0.93                      |                         |
| 05 36 00 00-0028 SF 2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....     | 10.73                     |                         |
| For Painted, Deduct  | -0.34                     |                         |
| For Perforated Or Slotted, Add   | 0.34                      |                         |
| For Insulated Cells, Add   | 1.52                      |                         |
| For Up To 100, Add   | 4.66                      |                         |
| For >100 To 500, Add   | 2.27                      |                         |
| For >500 To 1,500, Add   | 1.00                      |                         |
| 05 36 00 00-0029 SF 3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....     | 8.29                      |                         |
| For Painted, Deduct  | -0.28                     |                         |
| For Perforated Or Slotted, Add   | 0.28                      |                         |
| For Insulated Cells, Add   | 1.27                      |                         |
| For Up To 100, Add   | 3.21                      |                         |
| For >100 To 500, Add   | 1.62                      |                         |
| For >500 To 1,500, Add   | 0.66                      |                         |
| 05 36 00 00-0030 SF 3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....     | 8.77                      |                         |
| For Painted, Deduct  | -0.29                     |                         |
| For Perforated Or Slotted, Add   | 0.29                      |                         |
| For Insulated Cells, Add   | 1.32                      |                         |
| For Up To 100, Add   | 3.51                      |                         |
| For >100 To 500, Add   | 1.75                      |                         |
| For >500 To 1,500, Add   | 0.73                      |                         |

**05 Metals****05 30 Metal Decking****05 36 Composite Metal Decking**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 36 00 00-0031 SF 3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck..... | 8.93                      |                         |
| For Painted, Deduct  | -0.29                     |                         |
| For Perforated Or Slotted, Add   | 0.29                      |                         |
| For Insulated Cells, Add   | 1.32                      |                         |
| For Up To 100, Add   | 3.67                      |                         |
| For >100 To 500, Add   | 1.82                      |                         |
| For >500 To 1,500, Add   | 0.77                      |                         |
| 05 36 00 00-0032 SF 3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck..... | 9.56                      |                         |
| For Painted, Deduct  | -0.31                     |                         |
| For Perforated Or Slotted, Add   | 0.31                      |                         |
| For Insulated Cells, Add   | 1.40                      |                         |
| For Up To 100, Add   | 3.97                      |                         |
| For >100 To 500, Add   | 1.96                      |                         |
| For >500 To 1,500, Add   | 0.84                      |                         |
| 05 36 00 00-0033 SF 3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck..... | 10.18                     |                         |
| For Painted, Deduct  | -0.33                     |                         |
| For Perforated Or Slotted, Add   | 0.33                      |                         |
| For Insulated Cells, Add   | 1.48                      |                         |
| For Up To 100, Add   | 4.27                      |                         |
| For >100 To 500, Add   | 2.10                      |                         |
| For >500 To 1,500, Add   | 0.90                      |                         |
| 05 36 00 00-0034 SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck..... | 10.39                     |                         |
| For Painted, Deduct  | -0.33                     |                         |
| For Perforated Or Slotted, Add   | 0.33                      |                         |
| For Insulated Cells, Add   | 1.48                      |                         |
| For Up To 100, Add   | 4.48                      |                         |
| For >100 To 500, Add   | 2.19                      |                         |
| For >500 To 1,500, Add   | 0.96                      |                         |
| 05 36 00 00-0035 SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck..... | 10.84                     |                         |
| For Painted, Deduct  | -0.34                     |                         |
| For Perforated Or Slotted, Add   | 0.34                      |                         |
| For Insulated Cells, Add   | 1.52                      |                         |
| For Up To 100, Add   | 4.77                      |                         |
| For >100 To 500, Add   | 2.31                      |                         |
| For >500 To 1,500, Add   | 1.02                      |                         |

**05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized (05 36)**

|   |      |  |
|---|------|--|
| 05 36 00 00-0037 SF 1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 6.13 |  |
| 05 36 00 00-0038 SF 1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 5.04 |  |
| 05 36 00 00-0039 SF 1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 4.19 |  |
| 05 36 00 00-0040 SF 1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 3.61 |  |
| 05 36 00 00-0041 SF 1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular..... | 6.75 |  |
| 05 36 00 00-0042 SF 1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular..... | 5.49 |  |
| 05 36 00 00-0043 SF 1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular..... | 4.56 |  |
| 05 36 00 00-0044 SF 1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular..... | 3.93 |  |
| 05 36 00 00-0045 SF 3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 7.78 |  |
| 05 36 00 00-0046 SF 3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 6.23 |  |
| 05 36 00 00-0047 SF 3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 5.23 |  |
| 05 36 00 00-0048 SF 3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular.....     | 4.73 |  |

**05 40 Cold-Formed Metal Framing (05)**

Note: Includes all connecting bolts and welds.

**05 41 Structural Metal Stud Framing (05 40)**

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

**05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)**

|  |       |      |
|--|-------|------|
| 05 41 00 00-0002 SF 2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ..... | 4.80  | 1.08 |
| For Walls >10' High, Add   | 0.96  |      |
| For Curved Wall, Add   | 0.75  |      |
| For Up To 200, Add   | 1.46  |      |
| For >200 To 500, Add   | 0.73  |      |
| For 12" On Center, Add   | 0.84  |      |
| For 24" On Center, Deduct  | -0.84 |      |
| 05 41 00 00-0003 SF 3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ..... | 5.32  | 1.08 |
| For Walls >10' High, Add   | 1.06  |      |
| For Curved Wall, Add   | 0.79  |      |
| For Up To 200, Add   | 1.59  |      |
| For >200 To 500, Add   | 0.80  |      |
| For 12" On Center, Add   | 0.93  |      |
| For 24" On Center, Deduct  | -0.93 |      |
| 05 41 00 00-0004 SF 4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....      | 5.55  | 1.08 |
| For Walls >10' High, Add   | 1.11  |      |
| For Curved Wall, Add   | 0.82  |      |
| For Up To 200, Add   | 1.66  |      |
| For >200 To 500, Add   | 0.83  |      |
| For 12" On Center, Add   | 0.97  |      |
| For 24" On Center, Deduct  | -0.97 |      |



|                               |           |           |
|-------------------------------|-----------|-----------|
| <b>Metals</b>                 | <b>05</b> | <b>05</b> |
| Cold-Formed Metal Framing     | 05 40     |           |
| Structural Metal Stud Framing | 05 41     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 41 00 00-0005 SF 6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 6.90                      | 1.20                    |
| For Walls >10' High, Add   | 1.38                      |                         |
| For Curved Wall, Add   | 0.86                      |                         |
| For Up To 200, Add   | 1.95                      |                         |
| For >200 To 500, Add   | 0.98                      |                         |
| For 12" On Center, Add   | 1.24                      |                         |
| For 24" On Center, Deduct  | -1.24                     |                         |
| 05 41 00 00-0006 SF 8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 7.64                      | 1.31                    |
| For Walls >10' High, Add   | 1.53                      |                         |
| For Curved Wall, Add   | 0.89                      |                         |
| For Up To 200, Add   | 2.12                      |                         |
| For >200 To 500, Add   | 1.06                      |                         |
| For 12" On Center, Add   | 1.38                      |                         |
| For 24" On Center, Deduct  | -1.38                     |                         |
| <b>05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)</b>                        |                           |                         |
| 05 41 00 00-0008 SF 2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ..... | 5.14                      | 1.08                    |
| For Walls >10' High, Add   | 1.03                      |                         |
| For Curved Wall, Add   | 0.79                      |                         |
| For Up To 200, Add   | 1.55                      |                         |
| For >200 To 500, Add   | 0.78                      |                         |
| For 12" On Center, Add   | 0.90                      |                         |
| For 24" On Center, Deduct  | -0.90                     |                         |
| 05 41 00 00-0009 SF 3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ..... | 5.87                      | 1.09                    |
| For Walls >10' High, Add   | 1.17                      |                         |
| For Curved Wall, Add   | 0.83                      |                         |
| For Up To 200, Add   | 1.73                      |                         |
| For >200 To 500, Add   | 0.86                      |                         |
| For 12" On Center, Add   | 1.04                      |                         |
| For 24" On Center, Deduct  | -1.04                     |                         |
| 05 41 00 00-0010 SF 4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 6.19                      | 1.09                    |
| For Walls >10' High, Add   | 1.24                      |                         |
| For Curved Wall, Add   | 0.86                      |                         |
| For Up To 200, Add   | 1.81                      |                         |
| For >200 To 500, Add   | 0.91                      |                         |
| For 12" On Center, Add   | 1.09                      |                         |
| For 24" On Center, Deduct  | -1.09                     |                         |
| 05 41 00 00-0011 SF 6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 7.67                      | 1.31                    |
| For Walls >10' High, Add   | 1.53                      |                         |
| For Curved Wall, Add   | 0.90                      |                         |
| For Up To 200, Add   | 2.14                      |                         |
| For >200 To 500, Add   | 1.07                      |                         |
| For 12" On Center, Add   | 1.38                      |                         |
| For 24" On Center, Deduct  | -1.38                     |                         |
| 05 41 00 00-0012 SF 8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 8.41                      | 1.43                    |
| For Walls >10' High, Add   | 1.68                      |                         |
| For Curved Wall, Add   | 0.95                      |                         |
| For Up To 200, Add   | 2.31                      |                         |
| For >200 To 500, Add   | 1.16                      |                         |
| For 12" On Center, Add   | 1.52                      |                         |
| For 24" On Center, Deduct  | -1.52                     |                         |
| <b>05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)</b>                        |                           |                         |
| 05 41 00 00-0014 SF 3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ..... | 6.99                      | 1.49                    |
| For Walls >10' High, Add   | 1.40                      |                         |
| For Curved Wall, Add   | 1.00                      |                         |
| For Up To 200, Add   | 2.06                      |                         |
| For >200 To 500, Add   | 1.03                      |                         |
| For 12" On Center, Add   | 1.23                      |                         |
| For 24" On Center, Deduct  | -1.23                     |                         |
| 05 41 00 00-0015 SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 7.18                      | 1.52                    |
| For Walls >10' High, Add   | 1.44                      |                         |
| For Curved Wall, Add   | 1.01                      |                         |
| For Up To 200, Add   | 2.11                      |                         |
| For >200 To 500, Add   | 1.06                      |                         |
| For 12" On Center, Add   | 1.27                      |                         |
| For 24" On Center, Deduct  | -1.27                     |                         |
| 05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 8.82                      | 1.60                    |
| For Walls >10' High, Add   | 1.76                      |                         |
| For Curved Wall, Add   | 1.06                      |                         |
| For Up To 200, Add   | 2.47                      |                         |
| For >200 To 500, Add   | 1.24                      |                         |
| For 12" On Center, Add   | 1.59                      |                         |
| For 24" On Center, Deduct  | -1.59                     |                         |
| 05 41 00 00-0017 SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....     | 9.65                      | 1.67                    |
| For Walls >10' High, Add   | 1.93                      |                         |
| For Curved Wall, Add   | 1.11                      |                         |
| For Up To 200, Add   | 2.67                      |                         |
| For >200 To 500, Add   | 1.34                      |                         |
| For 12" On Center, Add   | 1.74                      |                         |
| For 24" On Center, Deduct  | -1.74                     |                         |



**05 Metals****05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**05 42 Cold-Formed Metal Joist Framing** (05 40)**05 42 13 Cold-Formed Metal Floor Joist Framing** (05 42)

Note: Floor or roof joist framing

|                         |   |       |      |
|-------------------------|---|-------|------|
| <b>05 42 13 00-0001</b> | <b>Steel Joists, 20 Gauge</b> <small>(05 42 13)</small> |       |      |
| 05 42 13 00-0002        | LF 5-1/2" - 20 Gauge Steel Joists .....                 | 9.80  | 2.56 |
| 05 42 13 00-0003        | LF 6" - 20 Gauge Steel Joists .....                     | 10.81 | 3.22 |
| 05 42 13 00-0004        | LF 7-1/4" - 20 Gauge Steel Joists .....                 | 11.67 | 3.53 |
| 05 42 13 00-0005        | LF 8" - 20 Gauge Steel Joists .....                     | 13.02 | 3.76 |
| <br>                    |   |       |      |
| <b>05 42 13 00-0006</b> | <b>Steel Joists, 18 Gauge</b> <small>(05 42 13)</small> |       |      |
| 05 42 13 00-0007        | LF 5-1/2" - 18 Gauge Steel Joists .....                 | 10.90 | 2.84 |
| 05 42 13 00-0008        | LF 6" - 18 Gauge Steel Joists .....                     | 12.04 | 3.58 |
| 05 42 13 00-0009        | LF 7-1/4" - 18 Gauge Steel Joists .....                 | 13.04 | 3.92 |
| 05 42 13 00-0010        | LF 8" - 18 Gauge Steel Joists .....                     | 13.47 | 4.17 |
| <br>                    |   |       |      |
| <b>05 42 13 00-0011</b> | <b>Steel Joists, 16 Gauge</b> <small>(05 42 13)</small> |       |      |
| 05 42 13 00-0012        | LF 7-1/4" - 16 Gauge Steel Joists .....                 | 14.00 | 3.96 |
| 05 42 13 00-0013        | LF 8" - 16 Gauge Steel Joists .....                     | 14.79 | 4.17 |
| <br>                    |   |       |      |
| <b>05 42 13 00-0014</b> | <b>Steel Joists, 14 Gauge</b> <small>(05 42 13)</small> |       |      |
| 05 42 13 00-0015        | LF 9-1/4" - 14 Gauge Steel Joists .....                 | 16.52 | 4.17 |
| 05 42 13 00-0016        | LF 11-1/2" - 14 Gauge Steel Joists .....                | 17.89 | 4.40 |
| <br>                    |   |       |      |
| <b>05 42 13 00-0017</b> | <b>Steel Joists, 12 Gauge</b> <small>(05 42 13)</small> |       |      |
| 05 42 13 00-0018        | LF 9-1/4" - 12 Gauge Steel Joists .....                 | 19.52 | 4.58 |
| 05 42 13 00-0019        | LF 11-1/2" - 12 Gauge Steel Joists .....                | 21.29 | 4.83 |
| <br>                    |   |       |      |
| <b>05 42 13 00-0020</b> | <b>Steel Joists, 10 Gauge</b> <small>(05 42 13)</small> |       |      |
| 05 42 13 00-0021        | LF 9-1/4" - 10 Gauge Steel Joists .....                 | 22.59 | 5.05 |
| 05 42 13 00-0022        | LF 11-1/2" - 10 Gauge Steel Joists .....                | 24.74 | 5.32 |
| <br>                    |   |       |      |
| <b>05 42 13 00-0023</b> | <b>Steel Joists, 8 Gauge</b> <small>(05 42 13)</small>  |       |      |
| 05 42 13 00-0024        | LF 9-1/4" - 8 Gauge Steel Joists .....                  | 25.73 | 5.56 |
| 05 42 13 00-0025        | LF 11-1/2" - 8 Gauge Steel Joists .....                 | 28.25 | 5.85 |

**05 42 23 Cold-Formed Metal Roof Joist Framing** (05 42)

See CSI section 05 42 13 00-0000 for metal joist framing.

**05 43 Slotted Channel Framing** (05 40)**05 43 00 00-0001 Unistrut Channel** (05 43)

Note: Excludes fasteners and accessories.

|                         |  |       |      |
|-------------------------|--|-------|------|
| <b>05 43 00 00-0002</b> | <b>Steel Unistrut Channel</b> <small>(05 43 00 00-0001)</small>                    |       |      |
| 05 43 00 00-0003        | LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....               | 13.52 | 2.55 |
|                         | For Galvanizing, Add .....   | 1.43  |      |
|                         | For Powder Coating, Add .....  | 1.26  |      |
| 05 43 00 00-0004        | LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....               | 13.93 | 2.55 |
|                         | For Galvanizing, Add .....   | 1.50  |      |
|                         | For Powder Coating, Add .....  | 1.33  |      |
| 05 43 00 00-0005        | LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....               | 14.56 | 2.55 |
|                         | For Galvanizing, Add .....   | 1.61  |      |
|                         | For Powder Coating, Add .....  | 1.42  |      |
| 05 43 00 00-0006        | LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....               | 12.70 | 2.55 |
|                         | For Galvanizing, Add .....   | 1.29  |      |
|                         | For Powder Coating, Add .....  | 1.14  |      |
| 05 43 00 00-0007        | LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel .....               | 10.91 | 2.55 |
|                         | For Galvanizing, Add .....   | 0.99  |      |
|                         | For Powder Coating, Add .....  | 0.87  |      |
| <br>                    |  |       |      |
| <b>05 43 00 00-0008</b> | <b>Stainless Steel Unistrut Channel</b> <small>(05 43 00 00-0001)</small>          |       |      |
| <b>05 43 00 00-0009</b> | <b>304 Stainless Steel Unistrut Channel</b> <small>(05 43 00 00-0008)</small>      |       |      |
| 05 43 00 00-0010        | LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel ..... | 35.43 | 2.55 |
| 05 43 00 00-0011        | LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel ..... | 42.84 | 2.55 |
| 05 43 00 00-0012        | LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel ..... | 41.00 | 2.55 |
| 05 43 00 00-0013        | LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel ..... | 52.45 | 2.55 |
| <br>                    |  |       |      |
| <b>05 43 00 00-0014</b> | <b>316 Stainless Steel Unistrut Channel</b> <small>(05 43 00 00-0008)</small>      |       |      |



|                         | MINOR<br>CSI UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------|---|---------------------------|-------------------------|
|                         | 05 43 00 00-0015 | LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....       | 59.47                     | 2.55                    |
| <b>05 43 00 00-0016</b> |                  | <b>Unistrut Closure Strips (05 43)</b>  |                           |                         |
|                         | 05 43 00 00-0017 | LF Steel Raceway Closure Strip For Unistrut Channel.....                                | 7.47                      | 0.56                    |
| <b>05 43 00 00-0018</b> |                  | <b>Lock Nuts With Spring For Unistrut Channel (05 43)</b>                               |                           |                         |
|                         |                  | Note: Includes hex bolt.  |                           |                         |
| <b>05 43 00 00-0019</b> |                  | <b>Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)</b>              |                           |                         |
|                         |                  | Note: Includes hex bolt.  |                           |                         |
|                         | 05 43 00 00-0020 | EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....                         | 8.09                      |                         |
|                         | 05 43 00 00-0021 | EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....                         | 8.96                      |                         |
|                         | 05 43 00 00-0022 | EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....                         | 9.62                      |                         |
|                         | 05 43 00 00-0023 | EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....                         | 13.14                     |                         |
| <b>05 43 00 00-0024</b> |                  | <b>Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)</b>    |                           |                         |
|                         |                  | Note: Includes hex bolt.  |                           |                         |
|                         | 05 43 00 00-0025 | EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....           | 19.57                     |                         |
|                         | 05 43 00 00-0026 | EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....           | 20.92                     |                         |
|                         | 05 43 00 00-0027 | EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....           | 30.25                     |                         |
|                         | 05 43 00 00-0028 | EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....           | 52.83                     |                         |
| <b>05 43 00 00-0029</b> |                  | <b>Lock Nuts Without Spring For Unistrut Channel (05 43)</b>                            |                           |                         |
|                         |                  | Note: Includes hex bolt.  |                           |                         |
| <b>05 43 00 00-0030</b> |                  | <b>Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)</b>           |                           |                         |
|                         |                  | Note: Includes hex bolt.  |                           |                         |
|                         | 05 43 00 00-0031 | EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....                      | 8.12                      |                         |
|                         | 05 43 00 00-0032 | EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....                      | 9.08                      |                         |
|                         | 05 43 00 00-0033 | EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....                      | 9.67                      |                         |
|                         | 05 43 00 00-0034 | EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....                      | 14.15                     |                         |
| <b>05 43 00 00-0035</b> |                  | <b>Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)</b> |                           |                         |
|                         |                  | Note: Includes hex bolt.  |                           |                         |
|                         | 05 43 00 00-0036 | EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....        | 13.59                     |                         |
|                         | 05 43 00 00-0037 | EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....        | 16.70                     |                         |
|                         | 05 43 00 00-0038 | EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....        | 18.34                     |                         |
|                         | 05 43 00 00-0039 | EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....        | 51.42                     |                         |
| <b>05 43 00 00-0040</b> |                  | <b>Beam Clamp For Unistrut Channel (05 43)</b>  |                           |                         |
|                         | 05 43 00 00-0041 | EA 1-5/8" Channel, P2675 Unistrut Beam Clamp.....                                       | 24.24                     | 8.46                    |
|                         | 05 43 00 00-0042 | EA 1-5/8" Channel, P2676 Unistrut Beam Clamp.....                                       | 31.06                     | 8.46                    |
|                         | 05 43 00 00-0043 | EA Add For Unistrut Swivel Nut, P2676.....  | 3.71                      |                         |
| <b>05 43 00 00-0044</b> |                  | <b>Beam Clamp Clevis Hangers For Unistrut Channel (05 43)</b>                           |                           |                         |
|                         | 05 43 00 00-0045 | EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674).....                       | 26.61                     | 8.46                    |
|                         | 05 43 00 00-0046 | EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677).....                       | 32.03                     | 8.46                    |
|                         | 05 43 00 00-0047 | EA Add For Unistrut Swivel Nut.....   | 3.71                      |                         |
|                         | 05 43 00 00-0048 | EA 6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut.....                       | 179.34                    | 11.28                   |
| <b>05 43 00 00-0049</b> |                  | <b>Pipe And Rigid Conduit Clamps (05 43)</b>  |                           |                         |
| <b>05 43 00 00-0050</b> |                  | <b>Pipe And Rigid Conduit Clamps (05 43 00 00-0049)</b>                                 |                           |                         |
|                         |                  | Note: Includes stainless steel (316) hardware.  |                           |                         |
|                         | 05 43 00 00-0051 | PR 1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....    | 8.19                      | 2.93                    |
|                         | 05 43 00 00-0052 | PR 3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....    | 8.33                      | 2.93                    |
|                         | 05 43 00 00-0053 | PR 1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....      | 9.77                      | 3.54                    |
|                         | 05 43 00 00-0054 | PR 1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....  | 10.37                     | 3.85                    |
|                         | 05 43 00 00-0055 | PR 1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....  | 12.82                     | 4.31                    |
|                         | 05 43 00 00-0056 | PR 2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....      | 12.82                     | 4.31                    |
|                         | 05 43 00 00-0057 | PR 2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....  | 20.04                     | 7.23                    |
|                         | 05 43 00 00-0058 | PR 3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....      | 20.33                     | 7.23                    |
|                         | 05 43 00 00-0059 | PR 3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....  | 21.87                     | 7.99                    |
|                         | 05 43 00 00-0060 | PR 4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....      | 24.12                     | 8.62                    |
| <b>05 43 00 00-0061</b> |                  | <b>Pipe And Rigid Conduit Clamps (05 43 00 00-0049)</b>                                 |                           |                         |
|                         |                  | Note: Includes nylon hardware.  |                           |                         |
|                         | 05 43 00 00-0062 | PR 1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....                    | 12.14                     | 2.93                    |
|                         | 05 43 00 00-0063 | PR 3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....                    | 12.52                     | 2.93                    |
|                         | 05 43 00 00-0064 | PR 1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....                      | 13.96                     | 3.54                    |
|                         | 05 43 00 00-0065 | PR 1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....                  | 14.71                     | 3.85                    |
|                         | 05 43 00 00-0066 | PR 1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....                  | 19.61                     | 4.31                    |
|                         | 05 43 00 00-0067 | PR 2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....                      | 19.61                     | 4.31                    |

**05 Metals****05 40 Cold-Formed Metal Framing****05 43 Slotted Channel Framing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 43 00 00-0068 PR 2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....  | 29.20                     | 7.23                    |
| 05 43 00 00-0069 PR 3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....   | 29.96                     | 7.23                    |
| 05 43 00 00-0070 PR 3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....  | 31.66                     | 7.99                    |
| 05 43 00 00-0071 PR 4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....   | 35.25                     | 8.62                    |
| <b>05 43 00 00-0072 Accessories For Unistrut Channel</b> (05 43)  |                           |                         |
| 05 43 00 00-0073 EA Trolley Truck Hanger, 1-5/8" Channel P1834 .....  | 59.12                     | 8.46                    |
| 05 43 00 00-0074 EA Flat Plate Fitting, One Hole, 1-5/8" Channel P1064.....   | 14.80                     | 5.64                    |
| 05 43 00 00-0075 EA 60 Degree Angle, 1-5/8" Channel P2097 .....   | 15.50                     | 5.64                    |
| <b>05 43 00 00-0076 Bases For Unistrut Channel</b> (05 43)  |                           |                         |
| <b>05 43 00 00-0077 Steel Bases For Unistrut Channel</b> (05 43 00 00-0076)   |                           |                         |
| Note: Includes straight or angled post mounting and fasteners.  |                           |                         |
| 05 43 00 00-0078 EA 6" x 6", 1-5/8" Height, Single Post, Steel Base For Unistrut Channel .....                                  | 116.10                    | 28.20                   |
| 05 43 00 00-0079 EA 6" x 6", 3-1/2" Height, Single Post, Steel Base For Unistrut Channel .....                                  | 117.66                    | 28.20                   |
| 05 43 00 00-0080 EA 6" x 6", 1-5/8" Height, Double Post, Steel Base For Unistrut Channel .....                                  | 167.64                    | 28.20                   |
| 05 43 00 00-0081 EA 6" x 6", 3-1/2" Height, Double Post, Steel Base For Unistrut Channel .....                                  | 138.58                    | 28.20                   |
| <b>05 43 00 00-0082 Stainless Steel Bases For Unistrut Channel</b> (05 43 00 00-0076)   |                           |                         |
| Note: Includes straight or angled post mounting and fasteners.  |                           |                         |
| 05 43 00 00-0083 EA 6" x 6", 1-5/8" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....                     | 232.04                    | 28.20                   |
| 05 43 00 00-0084 EA 6" x 6", 3-1/2" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....                     | 419.32                    | 28.20                   |
| 05 43 00 00-0085 EA 6" x 6", 3-1/2" Height, Double Post, 304 Stainless Steel Base For Unistrut Channel.....                     | 321.11                    | 28.20                   |
| 05 43 00 00-0086 EA 6" x 6", 1-5/8" Height, Single Post, 316 Stainless Steel Base For Unistrut Channel.....                     | 472.43                    | 28.20                   |
| 05 43 00 00-0087 EA 6" x 6", 3-1/2" Height, Double Post, 316 Stainless Steel Base For Unistrut Channel.....                     | 417.97                    | 28.20                   |
| <b>05 45 Metal Support Assemblies</b> (05 40)   |                           |                         |
| <b>05 45 13 Mechanical Metal Supports</b> (05 45)   |                           |                         |
| See CSI section 23 05 29 00-0000 for metal supports.  |                           |                         |
| <b>05 45 16 Electrical Metal Supports</b> (05 45)   |                           |                         |
| See CSI section 26 05 29 00-0000 for metal supports.  |                           |                         |
| <b>05 50 Metal Fabrications</b> (05)  |                           |                         |
| <b>05 51 Metal Stairs</b> (05 50)   |                           |                         |
| <b>05 51 13 Metal Pan Stairs</b> (05 51)  |                           |                         |
| Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. |                           |                         |
| See CSI section 05 52 13 00-0000 for handrails.   |                           |                         |
| <b>05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing</b> (05 51 13)   |                           |                         |
| Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.   |                           |                         |
| 05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair .....  | 1,067.76                  | 32.97                   |
| <i>For Closed Riser, Add</i>  |                           | 123.61                  |
| 05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair .....  | 1,213.11                  | 38.46                   |
| <i>For Closed Riser, Add</i>  |                           | 140.30                  |
| 05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair .....  | 1,350.79                  | 45.05                   |
| <i>For Closed Riser, Add</i>  |                           | 155.91                  |
| 05 51 13 00-0005 SF Concrete Filled Steel Pan Landing .....   | 85.74                     | 5.50                    |
| Note: Conventional shape.   |                           |                         |
| <b>05 51 19 Metal Grating Stairs</b> (05 51)  |                           |                         |
| Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.            |                           |                         |
| <b>05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing</b> (05 51 19)   |                           |                         |
| Note: Includes steel stringers, safety nosing and 2 pipe handrail.  |                           |                         |
| 05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair .....  | 515.78                    | 43.95                   |
| <i>For Closed Riser, Add</i>  |                           | 62.22                   |
| <i>For Galvanized Steel, Add</i>  |                           | 106.97                  |
| 05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair .....  | 549.33                    | 50.55                   |
| <i>For Closed Riser, Add</i>  |                           | 65.85                   |
| <i>For Galvanized Steel, Add</i>  |                           | 112.06                  |
| 05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair .....  | 607.66                    | 59.33                   |
| <i>For Closed Riser, Add</i>  |                           | 72.47                   |
| <i>For Galvanized Steel, Add</i>  |                           | 122.25                  |
| 05 51 19 00-0005 SF Steel Grating Landing With Framing And 2 Pipe Handrail .....  | 95.32                     | 5.50                    |
| Note: Conventional shape.   |                           |                         |
| <i>For Galvanized Steel, Add</i>  |                           | 18.34                   |
| <b>05 51 33 Metal Ladders</b> (05 51)   |                           |                         |
| Note: Includes factory prime.   |                           |                         |
| <b>05 51 33 13 Vertical Metal Ladders</b> (05 51 33)  |                           |                         |
| <b>05 51 33 13-0001 Vertical Ladders</b> (05 51 33 13)  |                           |                         |
| Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"                            |                           |                         |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Stairs       | 05 51     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 51 33 13-0002 VLF 20" Wide Vertical Steel Ladder Primed.....<br><i>For Galvanized Steel, Add</i><br><i>For Aluminum, Add</i>   | 92.58<br>12.81<br>25.61   | 13.18                   |
| 05 51 33 13-0003 VLF 24" Wide Vertical Steel Ladder Primed.....<br><i>For Galvanized Steel, Add</i><br><i>For Aluminum, Add</i>   | 105.56<br>16.05<br>32.10  | 13.18                   |
| 05 51 33 13-0004 VLF 20" Wide Vertical Steel Caged Ladder Primed .....<br><i>For Galvanized Steel, Add</i><br><i>For Aluminum, Add</i>  | 218.84<br>37.20<br>74.40  | 21.97                   |
| 05 51 33 13-0005 VLF 24" Wide Vertical Steel Caged Ladder Primed .....<br><i>For Galvanized Steel, Add</i><br><i>For Aluminum, Add</i>  | 244.80<br>43.69<br>87.38  | 21.97                   |
| <b>05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)</b>  |                           |                         |
| 05 51 33 13-0007 EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed .....<br>Note: Extends 42" above landing surface. Includes mounting bracket.<br><i>For Galvanized Steel, Add</i><br><i>For Aluminum, Add</i> | 366.11<br>70.93<br>141.85 | 41.21                   |
| 05 51 33 13-0008 EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed .....<br>Note: Extends 42" above landing surface. Includes mounting bracket.<br><i>For Galvanized Steel, Add</i><br><i>For Aluminum, Add</i> | 400.81<br>78.23<br>156.45 | 43.95                   |
| 05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp .....   | 548.97                    | 13.74                   |
| 05 51 33 13-0010 EA 6' Powder Coated, Security Ladder Guard .....   | 1,172.37                  | 82.41                   |
| 05 51 33 13-0011 EA 8' Powder Coated, Security Ladder Guard .....   | 1,402.18                  | 96.15                   |
| 05 51 33 13-0012 EA Safety Chain Attachment.....  | 213.88                    |                         |
| <b>05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)</b>   |                           |                         |
| Note: For existing fixed ladders up to 20" wide. Excludes the ladder.   |                           |                         |
| <b>05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)</b>   |                           |                         |
| 05 51 33 13-0015 EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....  | 2,173.63                  | 164.82                  |
| 05 51 33 13-0016 EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....  | 2,361.58                  | 170.32                  |
| 05 51 33 13-0017 EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....  | 2,511.06                  | 175.82                  |
| 05 51 33 13-0018 EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 2,670.79                  | 181.30                  |
| 05 51 33 13-0019 EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 2,763.84                  | 186.80                  |
| 05 51 33 13-0020 EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 2,915.90                  | 192.29                  |
| 05 51 33 13-0021 EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 3,049.99                  | 197.79                  |
| 05 51 33 13-0022 EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 3,225.11                  | 203.29                  |
| 05 51 33 13-0023 EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 3,395.11                  | 208.77                  |
| 05 51 33 13-0024 EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 3,534.33                  | 214.27                  |
| 05 51 33 13-0025 EA 17-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 3,704.33                  | 219.76                  |
| 05 51 33 13-0026 EA 18-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 3,869.20                  | 225.26                  |
| 05 51 33 13-0027 EA 19-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 4,031.49                  | 230.76                  |
| 05 51 33 13-0028 EA 20-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 4,327.16                  | 236.24                  |
| 05 51 33 13-0029 EA 21-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 4,415.09                  | 241.74                  |
| 05 51 33 13-0030 EA 22-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 4,567.13                  | 247.23                  |
| 05 51 33 13-0031 EA 23-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 4,706.36                  | 252.73                  |
| 05 51 33 13-0032 EA 24-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 4,835.31                  | 258.23                  |
| 05 51 33 13-0033 EA 25-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 5,123.29                  | 263.71                  |
| 05 51 33 13-0034 EA 26-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 5,277.89                  | 269.21                  |
| 05 51 33 13-0035 EA 27-1/2' Length, Powder Coated, Welded Steel Ladder Cage .....   | 5,422.25                  | 274.70                  |
| <b>05 51 33 13-0036 Welded Stainless Steel Ladder Cages (05 51 33 13-0013)</b>  |                           |                         |
| 05 51 33 13-0037 EA 7-1/2' Length, Welded Stainless Steel Ladder Cage .....   | 5,206.22                  | 164.82                  |
| 05 51 33 13-0038 EA 8-1/2' Length, Welded Stainless Steel Ladder Cage .....   | 5,562.38                  | 170.32                  |
| 05 51 33 13-0039 EA 9-1/2' Length, Welded Stainless Steel Ladder Cage .....   | 6,156.01                  | 175.82                  |
| 05 51 33 13-0040 EA 10-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 6,448.52                  | 181.30                  |
| 05 51 33 13-0041 EA 11-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 6,694.52                  | 186.80                  |
| 05 51 33 13-0042 EA 12-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 7,021.32                  | 192.29                  |
| 05 51 33 13-0043 EA 13-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 7,610.06                  | 197.79                  |
| 05 51 33 13-0044 EA 14-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 7,907.46                  | 203.29                  |
| 05 51 33 13-0045 EA 15-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 8,214.67                  | 208.77                  |
| 05 51 33 13-0046 EA 16-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 8,551.25                  | 214.27                  |
| 05 51 33 13-0047 EA 17-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 9,152.23                  | 219.76                  |
| 05 51 33 13-0048 EA 18-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 9,452.09                  | 225.26                  |
| 05 51 33 13-0049 EA 19-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 9,737.26                  | 230.76                  |
| 05 51 33 13-0050 EA 20-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 10,210.93                 | 236.24                  |
| 05 51 33 13-0051 EA 21-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 10,743.36                 | 241.74                  |
| 05 51 33 13-0052 EA 22-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 11,038.33                 | 247.23                  |
| 05 51 33 13-0053 EA 23-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 11,340.64                 | 252.73                  |
| 05 51 33 13-0054 EA 24-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 11,623.36                 | 258.23                  |
| 05 51 33 13-0055 EA 25-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 12,351.64                 | 263.71                  |
| 05 51 33 13-0056 EA 26-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 12,634.36                 | 269.21                  |
| 05 51 33 13-0057 EA 27-1/2' Length, Welded Stainless Steel Ladder Cage .....  | 12,924.43                 | 274.70                  |

**05 51 33 16 Inclined Metal Ladders (05 51 33)**

|    |       |                    |
|----|-------|--------------------|
| 05 | 05    | Metals             |
|    | 05 50 | Metal Fabrications |
|    | 05 51 | Metal Stairs       |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |                  |       |
|------------------|--|------------------|-------|
| 05 51 33 16-0001 | Industrial Ship Ladder, Incline Stairs (05 51 33 16)<br>Note: Includes factory prime.            |                  |       |
| 05 51 33 16-0002 | RSR 3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....<br><i>For Aluminum, Add</i> | 365.97<br>128.05 | 54.94 |

**05 51 33 23 Alternating Tread Ladders (05 51 33)**

|                  |  |                               |        |
|------------------|--|-------------------------------|--------|
| 05 51 33 23-0001 | Vertical Ladders With Alternating Tread (05 51 33 23)  |                               |        |
| 05 51 33 23-0002 | EA 4' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i>  | 2,653.74<br>252.52<br>-210.43 | 164.82 |
| 05 51 33 23-0003 | EA 5' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i>  | 3,047.57<br>307.69<br>-240.00 | 174.71 |
| 05 51 33 23-0004 | EA 6' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i>  | 3,395.91<br>365.28<br>-266.94 | 174.71 |
| 05 51 33 23-0005 | EA 7' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i>  | 3,864.61<br>422.83<br>-289.72 | 219.54 |
| 05 51 33 23-0006 | EA 8' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i>  | 4,252.77<br>489.30<br>-314.55 | 227.32 |
| 05 51 33 23-0007 | EA 9' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i>  | 4,560.56<br>551.40<br>-332.74 | 227.32 |
| 05 51 33 23-0008 | EA 10' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i> | 5,005.72<br>624.07<br>-353.64 | 253.57 |
| 05 51 33 23-0009 | EA 11' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i> | 5,350.57<br>698.32<br>-371.69 | 253.57 |
| 05 51 33 23-0010 | EA 12' Vertical Height Aluminum Alternating Tread Ladder .....<br><i>For Stainless Steel, Add</i><br><i>For Primed Steel, Deduct</i> | 5,618.88<br>763.78<br>-381.89 | 253.57 |

**05 52 Metal Railings (05 50)**

**05 52 13 Pipe and Tube Railings (05 52)**

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

|                  |   |   |       |
|------------------|---|---|-------|
| 05 52 13 00-0001 | Welded Steel Pipe Railing (05 52 13)<br>Note: Includes field welds and touch-up of welds.   |   |       |
| 05 52 13 00-0002 | One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)<br>Note: Includes factory primed posts and one rail.  |   |       |
| 05 52 13 00-0003 | LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....<br><i>For Schedule 80 Handrail, Add</i><br><i>For 11 Gauge A513 Steel Tubing, Deduct</i><br><i>For 12 Gauge A513 Steel Tubing, Deduct</i><br><i>For 14 Gauge A513 Steel Tubing, Deduct</i><br><i>For 16 Gauge A513 Steel Tubing, Deduct</i><br><i>For Additional Off Set Handrail, ADA Attachment, Add</i><br><i>For Aluminum, Satin Finish, Add</i><br><i>For Aluminum, Clear Anodized Finish, Add</i><br><i>For Aluminum, Dark Anodized Finish, Add</i><br><i>For Galvanizing, Add</i><br><i>For Wrought Iron, Add</i><br><i>For Solid Steel Rails, Add</i><br><i>For 304 Stainless Steel, Add</i><br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Wheel Guard, Add</i><br><i>For 4" High Kick Plate, Add</i><br><i>For 6" High Kick Plate, Add</i><br><i>For Curved Rail, Add</i><br><i>For Mounting On Stairs, Add</i><br><i>For Mounting On Slopes, Add</i><br><i>For Post Base Flange With Screws, Add Per Post</i><br><i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i><br><i>For Custom Design Or Shapes (Square Tops, etc), Add</i><br><i>For Nylon Coating, Add</i> | 37.57<br>7.82<br>-3.43<br>-3.90<br>-5.15<br>-6.08<br>13.75<br>6.55<br>10.14<br>11.70<br>6.24<br>3.76<br>7.51<br>49.92<br>56.16<br>1.48<br>1.95<br>3.12<br>15.95<br>11.27<br>3.76<br>19.70<br>29.80<br>13.29<br>2.34 | 10.99 |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Railings     | 05 52     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 52 13 00-0004 LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 40.26                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 13.41                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -4.02                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -4.57                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -6.04                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -7.13                     |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 15.36                     |                         |
| For Aluminum, Satin Finish, Add   | 7.68                      |                         |
| For Aluminum, Clear Anodized Finish, Add  | 11.89                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 13.72                     |                         |
| For Galvanizing, Add  | 7.32                      |                         |
| For Wrought Iron, Add   | 4.03                      |                         |
| For Solid Steel Rails, Add  | 8.05                      |                         |
| For 304 Stainless Steel, Add  | 58.53                     |                         |
| For 316 Stainless Steel, Add  | 65.84                     |                         |
| For 2" Wheel Guard, Add   | 1.74                      |                         |
| For 4" High Kick Plate, Add   | 2.29                      |                         |
| For 6" High Kick Plate, Add   | 3.66                      |                         |
| For Curved Rail, Add  | 17.57                     |                         |
| For Mounting On Stairs, Add   | 12.08                     |                         |
| For Mounting On Slopes, Add   | 4.03                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 14.64                     |                         |
| For Nylon Coating, Add  | 2.74                      |                         |
| 05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 42.95                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 13.41                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -4.62                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -5.25                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -6.92                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -8.18                     |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 16.98                     |                         |
| For Aluminum, Satin Finish, Add   | 8.81                      |                         |
| For Aluminum, Clear Anodized Finish, Add  | 13.64                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 15.74                     |                         |
| For Galvanizing, Add  | 8.39                      |                         |
| For Wrought Iron, Add   | 4.30                      |                         |
| For Solid Steel Rails, Add  | 8.59                      |                         |
| For 304 Stainless Steel, Add  | 67.14                     |                         |
| For 316 Stainless Steel, Add  | 75.53                     |                         |
| For 2" Wheel Guard, Add   | 1.99                      |                         |
| For 4" High Kick Plate, Add   | 2.62                      |                         |
| For 6" High Kick Plate, Add   | 4.20                      |                         |
| For Curved Rail, Add  | 19.18                     |                         |
| For Mounting On Stairs, Add   | 12.89                     |                         |
| For Mounting On Slopes, Add   | 4.30                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 15.98                     |                         |
| For Nylon Coating, Add  | 3.15                      |                         |
| 05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....      | 47.61                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 15.67                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -5.64                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -6.41                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -8.46                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -10.00                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 19.77                     |                         |
| For Aluminum, Satin Finish, Add   | 10.77                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 16.67                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 19.23                     |                         |
| For Galvanizing, Add  | 10.26                     |                         |
| For Wrought Iron, Add   | 4.76                      |                         |
| For Solid Steel Rails, Add  | 9.52                      |                         |
| For 304 Stainless Steel, Add  | 82.05                     |                         |
| For 316 Stainless Steel, Add  | 92.30                     |                         |
| For 2" Wheel Guard, Add   | 2.44                      |                         |
| For 4" High Kick Plate, Add   | 3.21                      |                         |
| For 6" High Kick Plate, Add   | 5.13                      |                         |
| For Curved Rail, Add  | 21.98                     |                         |
| For Mounting On Stairs, Add   | 14.28                     |                         |
| For Mounting On Slopes, Add   | 4.76                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 18.31                     |                         |
| For Nylon Coating, Add  | 3.85                      |                         |

|           |                                 |
|-----------|---------------------------------|
| <b>05</b> | <b>05 Metals</b>                |
|           | <b>05 50 Metal Fabrications</b> |
|           | <b>05 52 Metal Railings</b>     |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 53.20                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 17.96                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -6.87                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -7.81                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -10.31                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -12.18                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 23.13                     |                         |
| For Aluminum, Satin Finish, Add   | 13.12                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 20.30                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 23.42                     |                         |
| For Galvanizing, Add  | 12.49                     |                         |
| For Wrought Iron, Add   | 5.32                      |                         |
| For Solid Steel Rails, Add  | 10.64                     |                         |
| For 304 Stainless Steel, Add  | 99.94                     |                         |
| For 316 Stainless Steel, Add  | 112.43                    |                         |
| For 2" Wheel Guard, Add   | 2.97                      |                         |
| For 4" High Kick Plate, Add   | 3.90                      |                         |
| For 6" High Kick Plate, Add   | 6.25                      |                         |
| For Curved Rail, Add  | 25.33                     |                         |
| For Mounting On Stairs, Add   | 15.96                     |                         |
| For Mounting On Slopes, Add   | 5.32                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 21.11                     |                         |
| For Nylon Coating, Add  | 4.68                      |                         |
| <br>05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small> |                           |                         |
| Note: Includes factory primed posts and two rails.  |                           |                         |
| 05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing .....     | 50.57                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 7.82                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -6.29                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -7.15                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -9.44                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -11.15                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 13.75                     |                         |
| For Aluminum, Satin Finish, Add   | 12.01                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 18.59                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 21.45                     |                         |
| For Galvanizing, Add  | 11.44                     |                         |
| For Wrought Iron, Add   | 5.06                      |                         |
| For Solid Steel Rails, Add  | 10.11                     |                         |
| For 304 Stainless Steel, Add  | 91.52                     |                         |
| For 316 Stainless Steel, Add  | 102.96                    |                         |
| For 2" Wheel Guard, Add   | 2.72                      |                         |
| For 4" High Kick Plate, Add   | 3.58                      |                         |
| For 6" High Kick Plate, Add   | 5.72                      |                         |
| For Curved Rail, Add  | 23.75                     |                         |
| For Mounting On Stairs, Add   | 15.17                     |                         |
| For Mounting On Slopes, Add   | 5.06                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 19.79                     |                         |
| For Nylon Coating, Add  | 4.29                      |                         |
| 05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 55.50                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 13.41                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -7.38                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -8.38                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -11.06                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -13.08                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 15.36                     |                         |
| For Aluminum, Satin Finish, Add   | 14.08                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 21.79                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 25.15                     |                         |
| For Galvanizing, Add  | 13.41                     |                         |
| For Wrought Iron, Add   | 5.55                      |                         |
| For Solid Steel Rails, Add  | 11.10                     |                         |
| For 304 Stainless Steel, Add  | 107.30                    |                         |
| For 316 Stainless Steel, Add  | 120.71                    |                         |
| For 2" Wheel Guard, Add   | 3.19                      |                         |
| For 4" High Kick Plate, Add   | 4.19                      |                         |
| For 6" High Kick Plate, Add   | 6.71                      |                         |
| For Curved Rail, Add  | 26.71                     |                         |
| For Mounting On Stairs, Add   | 16.65                     |                         |
| For Mounting On Slopes, Add   | 5.55                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 22.26                     |                         |
| For Nylon Coating, Add  | 5.03                      |                         |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Railings     | 05 52     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 60.43                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 13.41                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -8.46                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -9.62                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -12.69                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -15.00                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 16.98                     |                         |
| For Aluminum, Satin Finish, Add   | 16.15                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 25.00                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 28.85                     |                         |
| For Galvanizing, Add  | 15.38                     |                         |
| For Wrought Iron, Add   | 6.04                      |                         |
| For Solid Steel Rails, Add  | 12.09                     |                         |
| For 304 Stainless Steel, Add  | 123.07                    |                         |
| For 316 Stainless Steel, Add  | 138.46                    |                         |
| For 2" Wheel Guard, Add   | 3.65                      |                         |
| For 4" High Kick Plate, Add   | 4.81                      |                         |
| For 6" High Kick Plate, Add   | 7.69                      |                         |
| For Curved Rail, Add  | 29.67                     |                         |
| For Mounting On Stairs, Add   | 18.13                     |                         |
| For Mounting On Slopes, Add   | 6.04                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 24.72                     |                         |
| For Nylon Coating, Add  | 5.77                      |                         |
| 05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....      | 68.97                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 15.67                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -10.34                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -11.75                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -15.51                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -18.33                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 19.77                     |                         |
| For Aluminum, Satin Finish, Add   | 19.74                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 30.55                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 35.25                     |                         |
| For Galvanizing, Add  | 18.80                     |                         |
| For Wrought Iron, Add   | 6.90                      |                         |
| For Solid Steel Rails, Add  | 13.79                     |                         |
| For 304 Stainless Steel, Add  | 150.40                    |                         |
| For 316 Stainless Steel, Add  | 169.20                    |                         |
| For 2" Wheel Guard, Add   | 4.47                      |                         |
| For 4" High Kick Plate, Add   | 5.88                      |                         |
| For 6" High Kick Plate, Add   | 9.40                      |                         |
| For Curved Rail, Add  | 34.79                     |                         |
| For Mounting On Stairs, Add   | 20.69                     |                         |
| For Mounting On Slopes, Add   | 6.90                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 28.99                     |                         |
| For Nylon Coating, Add  | 7.05                      |                         |
| 05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 79.21                     | 10.99                   |
| For Schedule 80 Handrail, Add   | 17.96                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -12.59                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -14.31                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -18.89                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -22.32                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 23.13                     |                         |
| For Aluminum, Satin Finish, Add   | 24.04                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 37.21                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 42.93                     |                         |
| For Galvanizing, Add  | 22.90                     |                         |
| For Wrought Iron, Add   | 7.92                      |                         |
| For Solid Steel Rails, Add  | 15.84                     |                         |
| For 304 Stainless Steel, Add  | 183.17                    |                         |
| For 316 Stainless Steel, Add  | 206.06                    |                         |
| For 2" Wheel Guard, Add   | 5.44                      |                         |
| For 4" High Kick Plate, Add   | 7.16                      |                         |
| For 6" High Kick Plate, Add   | 11.45                     |                         |
| For Curved Rail, Add  | 40.94                     |                         |
| For Mounting On Stairs, Add   | 23.76                     |                         |
| For Mounting On Slopes, Add   | 7.92                      |                         |
| For Post Base Flange With Screws, Add Per Post  | 19.70                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                            | 29.80                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 34.11                     |                         |
| For Nylon Coating, Add  | 8.59                      |                         |

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)  
 Note: Includes factory primed posts and three rails.





| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 05 52 | 13 00-0015 | LF  | 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....     | 76.55                  | 13.18                |
|       |            |     | <i>For Schedule 80 Handrail, Add</i>   | 10.99                  |                      |
|       |            |     | <i>For 11 Gauge A513 Steel Tubing, Deduct</i>  | -11.04                 |                      |
|       |            |     | <i>For 12 Gauge A513 Steel Tubing, Deduct</i>  | -12.54                 |                      |
|       |            |     | <i>For 14 Gauge A513 Steel Tubing, Deduct</i>  | -16.56                 |                      |
|       |            |     | <i>For 16 Gauge A513 Steel Tubing, Deduct</i>  | -19.57                 |                      |
|       |            |     | <i>For Additional Off Set Handrail, ADA Attachment, Add</i>                              | 14.64                  |                      |
|       |            |     | <i>For Aluminum, Satin Finish, Add</i>   | 21.07                  |                      |
|       |            |     | <i>For Aluminum, Clear Anodized Finish, Add</i>  | 32.61                  |                      |
|       |            |     | <i>For Aluminum, Dark Anodized Finish, Add</i>   | 37.63                  |                      |
|       |            |     | <i>For Galvanizing, Add</i>  | 20.07                  |                      |
|       |            |     | <i>For Wrought Iron, Add</i>   | 7.66                   |                      |
|       |            |     | <i>For Solid Steel Rails, Add</i>  | 15.31                  |                      |
|       |            |     | <i>For 304 Stainless Steel, Add</i>  | 160.54                 |                      |
|       |            |     | <i>For 316 Stainless Steel, Add</i>  | 180.61                 |                      |
|       |            |     | <i>For 2" Wheel Guard, Add</i>   | 4.77                   |                      |
|       |            |     | <i>For 4" High Kick Plate, Add</i>   | 6.27                   |                      |
|       |            |     | <i>For 6" High Kick Plate, Add</i>   | 10.03                  |                      |
|       |            |     | <i>For Curved Rail, Add</i>  | 38.02                  |                      |
|       |            |     | <i>For Mounting On Stairs, Add</i>   | 22.97                  |                      |
|       |            |     | <i>For Mounting On Slopes, Add</i>   | 7.66                   |                      |
|       |            |     | <i>For Post Base Flange With Screws, Add Per Post</i>                                    | 20.14                  |                      |
|       |            |     | <i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>  | 30.46                  |                      |
|       |            |     | <i>For Custom Design Or Shapes (Square Tops, etc), Add</i>                               | 31.68                  |                      |
|       |            |     | <i>For Nylon Coating, Add</i>  | 7.53                   |                      |
| 05 52 | 13 00-0016 | LF  | 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing..... | 85.18                  | 13.18                |
|       |            |     | <i>For Schedule 80 Handrail, Add</i>   | 18.45                  |                      |
|       |            |     | <i>For 11 Gauge A513 Steel Tubing, Deduct</i>  | -12.94                 |                      |
|       |            |     | <i>For 12 Gauge A513 Steel Tubing, Deduct</i>  | -14.70                 |                      |
|       |            |     | <i>For 14 Gauge A513 Steel Tubing, Deduct</i>  | -19.40                 |                      |
|       |            |     | <i>For 16 Gauge A513 Steel Tubing, Deduct</i>  | -22.93                 |                      |
|       |            |     | <i>For Additional Off Set Handrail, ADA Attachment, Add</i>                              | 16.25                  |                      |
|       |            |     | <i>For Aluminum, Satin Finish, Add</i>   | 24.70                  |                      |
|       |            |     | <i>For Aluminum, Clear Anodized Finish, Add</i>  | 38.22                  |                      |
|       |            |     | <i>For Aluminum, Dark Anodized Finish, Add</i>   | 44.10                  |                      |
|       |            |     | <i>For Galvanizing, Add</i>  | 23.52                  |                      |
|       |            |     | <i>For Wrought Iron, Add</i>   | 8.52                   |                      |
|       |            |     | <i>For Solid Steel Rails, Add</i>  | 17.04                  |                      |
|       |            |     | <i>For 304 Stainless Steel, Add</i>  | 188.16                 |                      |
|       |            |     | <i>For 316 Stainless Steel, Add</i>  | 211.68                 |                      |
|       |            |     | <i>For 2" Wheel Guard, Add</i>   | 5.59                   |                      |
|       |            |     | <i>For 4" High Kick Plate, Add</i>   | 7.35                   |                      |
|       |            |     | <i>For 6" High Kick Plate, Add</i>   | 11.76                  |                      |
|       |            |     | <i>For Curved Rail, Add</i>  | 43.19                  |                      |
|       |            |     | <i>For Mounting On Stairs, Add</i>   | 25.55                  |                      |
|       |            |     | <i>For Mounting On Slopes, Add</i>   | 8.52                   |                      |
|       |            |     | <i>For Post Base Flange With Screws, Add Per Post</i>                                    | 20.14                  |                      |
|       |            |     | <i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>  | 30.46                  |                      |
|       |            |     | <i>For Custom Design Or Shapes (Square Tops, etc), Add</i>                               | 36.00                  |                      |
|       |            |     | <i>For Nylon Coating, Add</i>  | 8.82                   |                      |
| 05 52 | 13 00-0017 | LF  | 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing..... | 93.82                  | 13.18                |
|       |            |     | <i>For Schedule 80 Handrail, Add</i>   | 18.45                  |                      |
|       |            |     | <i>For 11 Gauge A513 Steel Tubing, Deduct</i>  | -14.84                 |                      |
|       |            |     | <i>For 12 Gauge A513 Steel Tubing, Deduct</i>  | -16.86                 |                      |
|       |            |     | <i>For 14 Gauge A513 Steel Tubing, Deduct</i>  | -22.26                 |                      |
|       |            |     | <i>For 16 Gauge A513 Steel Tubing, Deduct</i>  | -26.30                 |                      |
|       |            |     | <i>For Additional Off Set Handrail, ADA Attachment, Add</i>                              | 17.87                  |                      |
|       |            |     | <i>For Aluminum, Satin Finish, Add</i>   | 28.32                  |                      |
|       |            |     | <i>For Aluminum, Clear Anodized Finish, Add</i>  | 43.84                  |                      |
|       |            |     | <i>For Aluminum, Dark Anodized Finish, Add</i>   | 50.58                  |                      |
|       |            |     | <i>For Galvanizing, Add</i>  | 26.98                  |                      |
|       |            |     | <i>For Wrought Iron, Add</i>   | 9.38                   |                      |
|       |            |     | <i>For Solid Steel Rails, Add</i>  | 18.76                  |                      |
|       |            |     | <i>For 304 Stainless Steel, Add</i>  | 215.81                 |                      |
|       |            |     | <i>For 316 Stainless Steel, Add</i>  | 242.78                 |                      |
|       |            |     | <i>For 2" Wheel Guard, Add</i>   | 6.41                   |                      |
|       |            |     | <i>For 4" High Kick Plate, Add</i>   | 8.43                   |                      |
|       |            |     | <i>For 6" High Kick Plate, Add</i>   | 13.49                  |                      |
|       |            |     | <i>For Curved Rail, Add</i>  | 48.38                  |                      |
|       |            |     | <i>For Mounting On Stairs, Add</i>   | 28.15                  |                      |
|       |            |     | <i>For Mounting On Slopes, Add</i>   | 9.38                   |                      |
|       |            |     | <i>For Post Base Flange With Screws, Add Per Post</i>                                    | 20.14                  |                      |
|       |            |     | <i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>  | 30.46                  |                      |
|       |            |     | <i>For Custom Design Or Shapes (Square Tops, etc), Add</i>                               | 40.32                  |                      |
|       |            |     | <i>For Nylon Coating, Add</i>  | 10.12                  |                      |



|  |                    |           |           |
|--|--------------------|-----------|-----------|
|  | <b>Metals</b>      | <b>05</b> |           |
|  | Metal Fabrications | 05 50     | <b>05</b> |
|  | Metal Railings     | 05 52     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....     | 108.83                    | 13.18                   |
| For Schedule 80 Handrail, Add  | 21.46                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct   | -18.14                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct   | -20.61                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct   | -27.21                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct   | -32.16                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add   | 20.66                     |                         |
| For Aluminum, Satin Finish, Add  | 34.63                     |                         |
| For Aluminum, Clear Anodized Finish, Add   | 53.59                     |                         |
| For Aluminum, Dark Anodized Finish, Add  | 61.84                     |                         |
| For Galvanizing, Add   | 32.98                     |                         |
| For Wrought Iron, Add  | 10.88                     |                         |
| For Solid Steel Rails, Add   | 21.77                     |                         |
| For 304 Stainless Steel, Add   | 263.84                    |                         |
| For 316 Stainless Steel, Add   | 296.82                    |                         |
| For 2" Wheel Guard, Add  | 7.83                      |                         |
| For 4" High Kick Plate, Add  | 10.31                     |                         |
| For 6" High Kick Plate, Add  | 16.49                     |                         |
| For Curved Rail, Add   | 57.38                     |                         |
| For Mounting On Stairs, Add  | 32.65                     |                         |
| For Mounting On Slopes, Add  | 10.88                     |                         |
| For Post Base Flange With Screws, Add Per Post   | 20.14                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                             | 30.46                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add  | 47.82                     |                         |
| For Nylon Coating, Add   | 12.37                     |                         |
| 05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing..... | 126.71                    | 13.18                   |
| For Schedule 80 Handrail, Add  | 24.51                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct   | -22.07                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct   | -25.08                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct   | -33.11                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct   | -39.13                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add   | 24.02                     |                         |
| For Aluminum, Satin Finish, Add  | 42.14                     |                         |
| For Aluminum, Clear Anodized Finish, Add   | 65.21                     |                         |
| For Aluminum, Dark Anodized Finish, Add  | 75.25                     |                         |
| For Galvanizing, Add   | 40.13                     |                         |
| For Wrought Iron, Add  | 12.67                     |                         |
| For Solid Steel Rails, Add   | 25.34                     |                         |
| For 304 Stainless Steel, Add   | 321.06                    |                         |
| For 316 Stainless Steel, Add   | 361.19                    |                         |
| For 2" Wheel Guard, Add  | 9.53                      |                         |
| For 4" High Kick Plate, Add  | 12.54                     |                         |
| For 6" High Kick Plate, Add  | 20.07                     |                         |
| For Curved Rail, Add   | 68.11                     |                         |
| For Mounting On Stairs, Add  | 38.01                     |                         |
| For Mounting On Slopes, Add  | 12.67                     |                         |
| For Post Base Flange With Screws, Add Per Post   | 20.14                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                             | 30.46                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add  | 56.76                     |                         |
| For Nylon Coating, Add   | 15.05                     |                         |
| <b>05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)</b>             |                           |                         |
| Note: Includes factory primed posts and four rails.  |                           |                         |
| 05 52 13 00-0021 LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....      | 92.34                     | 15.38                   |
| For Schedule 80 Handrail, Add  | 14.45                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct   | -13.55                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct   | -15.39                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct   | -20.32                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct   | -24.01                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add   | 15.51                     |                         |
| For Aluminum, Satin Finish, Add  | 25.86                     |                         |
| For Aluminum, Clear Anodized Finish, Add   | 40.02                     |                         |
| For Aluminum, Dark Anodized Finish, Add  | 46.18                     |                         |
| For Galvanizing, Add   | 24.63                     |                         |
| For Wrought Iron, Add  | 9.23                      |                         |
| For Solid Steel Rails, Add   | 18.47                     |                         |
| For 304 Stainless Steel, Add   | 197.02                    |                         |
| For 316 Stainless Steel, Add   | 221.65                    |                         |
| For 2" Wheel Guard, Add  | 5.85                      |                         |
| For 4" High Kick Plate, Add  | 7.70                      |                         |
| For 6" High Kick Plate, Add  | 12.31                     |                         |
| For Curved Rail, Add   | 46.17                     |                         |
| For Mounting On Stairs, Add  | 27.70                     |                         |
| For Mounting On Slopes, Add  | 9.23                      |                         |
| For Post Base Flange With Screws, Add Per Post   | 20.58                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                             | 31.12                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add  | 38.48                     |                         |
| For Nylon Coating, Add   | 9.24                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 100.01                    | 15.38                   |
| For Schedule 80 Handrail, Add  | 23.77                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct   | -15.23                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct   | -17.31                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct   | -22.85                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct   | -27.00                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add   | 17.12                     |                         |
| For Aluminum, Satin Finish, Add  | 29.08                     |                         |
| For Aluminum, Clear Anodized Finish, Add   | 45.01                     |                         |
| For Aluminum, Dark Anodized Finish, Add  | 51.93                     |                         |
| For Galvanizing, Add   | 27.70                     |                         |
| For Wrought Iron, Add  | 10.00                     |                         |
| For Solid Steel Rails, Add   | 20.00                     |                         |
| For 304 Stainless Steel, Add   | 221.57                    |                         |
| For 316 Stainless Steel, Add   | 249.26                    |                         |
| For 2" Wheel Guard, Add  | 6.58                      |                         |
| For 4" High Kick Plate, Add  | 8.66                      |                         |
| For 6" High Kick Plate, Add  | 13.85                     |                         |
| For Curved Rail, Add   | 50.78                     |                         |
| For Mounting On Stairs, Add  | 30.00                     |                         |
| For Mounting On Slopes, Add  | 10.00                     |                         |
| For Post Base Flange With Screws, Add Per Post   | 20.58                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                             | 31.12                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add  | 42.31                     |                         |
| For Nylon Coating, Add   | 10.39                     |                         |
| 05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing ..... | 107.68                    | 15.38                   |
| For Schedule 80 Handrail, Add  | 23.77                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct   | -16.92                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct   | -19.23                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct   | -25.38                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct   | -29.99                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add   | 18.74                     |                         |
| For Aluminum, Satin Finish, Add  | 32.30                     |                         |
| For Aluminum, Clear Anodized Finish, Add   | 49.99                     |                         |
| For Aluminum, Dark Anodized Finish, Add  | 57.68                     |                         |
| For Galvanizing, Add   | 30.76                     |                         |
| For Wrought Iron, Add  | 10.77                     |                         |
| For Solid Steel Rails, Add   | 21.54                     |                         |
| For 304 Stainless Steel, Add   | 246.11                    |                         |
| For 316 Stainless Steel, Add   | 276.88                    |                         |
| For 2" Wheel Guard, Add  | 7.31                      |                         |
| For 4" High Kick Plate, Add  | 9.61                      |                         |
| For 6" High Kick Plate, Add  | 15.38                     |                         |
| For Curved Rail, Add   | 55.38                     |                         |
| For Mounting On Stairs, Add  | 32.30                     |                         |
| For Mounting On Slopes, Add  | 10.77                     |                         |
| For Post Base Flange With Screws, Add Per Post   | 20.58                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                             | 31.12                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add  | 46.15                     |                         |
| For Nylon Coating, Add   | 11.54                     |                         |
| 05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....     | 124.76                    | 15.38                   |
| For Schedule 80 Handrail, Add  | 27.54                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct   | -20.68                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct   | -23.50                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct   | -31.02                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct   | -36.66                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add   | 21.53                     |                         |
| For Aluminum, Satin Finish, Add  | 39.48                     |                         |
| For Aluminum, Clear Anodized Finish, Add   | 61.09                     |                         |
| For Aluminum, Dark Anodized Finish, Add  | 70.49                     |                         |
| For Galvanizing, Add   | 37.60                     |                         |
| For Wrought Iron, Add  | 12.48                     |                         |
| For Solid Steel Rails, Add   | 24.95                     |                         |
| For 304 Stainless Steel, Add   | 300.77                    |                         |
| For 316 Stainless Steel, Add   | 338.36                    |                         |
| For 2" Wheel Guard, Add  | 8.93                      |                         |
| For 4" High Kick Plate, Add  | 11.75                     |                         |
| For 6" High Kick Plate, Add  | 18.80                     |                         |
| For Curved Rail, Add   | 65.63                     |                         |
| For Mounting On Stairs, Add  | 37.43                     |                         |
| For Mounting On Slopes, Add  | 12.48                     |                         |
| For Post Base Flange With Screws, Add Per Post   | 20.58                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post                             | 31.12                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add  | 54.69                     |                         |
| For Nylon Coating, Add   | 14.10                     |                         |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Railings     | 05 52     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....             | 144.78                    | 15.38                   |
| For Schedule 80 Handrail, Add   | 31.35                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -25.08                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -28.50                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -37.62                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -44.46                    |                         |
| For Additional Off Set Handrail, ADA Attachment, Add  | 24.89                     |                         |
| For Aluminum, Satin Finish, Add   | 47.88                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 74.11                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 85.51                     |                         |
| For Galvanizing, Add  | 45.60                     |                         |
| For Wrought Iron, Add   | 14.48                     |                         |
| For Solid Steel Rails, Add  | 28.96                     |                         |
| For 304 Stainless Steel, Add  | 364.83                    |                         |
| For 316 Stainless Steel, Add  | 410.44                    |                         |
| For 2" Wheel Guard, Add   | 10.83                     |                         |
| For 4" High Kick Plate, Add   | 14.25                     |                         |
| For 6" High Kick Plate, Add   | 22.80                     |                         |
| For Curved Rail, Add  | 77.64                     |                         |
| For Mounting On Stairs, Add   | 43.43                     |                         |
| For Mounting On Slopes, Add   | 14.48                     |                         |
| For Post Base Flange With Screws, Add Per Post  | 20.58                     |                         |
| For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post  | 31.12                     |                         |
| For Custom Design Or Shapes (Square Tops, etc), Add   | 64.70                     |                         |
| For Nylon Coating, Add  | 17.10                     |                         |
| <br>05 52 13 00-0026 Railing Infill Panels (05 52 13)   |                           |                         |
| Note: Includes field welds and touch-up of welds.   |                           |                         |
| 05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)                                |                           |                         |
| Note: Square weave or square welded wire mesh.  |                           |                         |
| 05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....                      | 14.87                     |                         |
| 05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....                         | 15.79                     |                         |
| 05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....                                 | 16.60                     |                         |
| 05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....                          | 28.07                     |                         |
| <br>05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)   |                           |                         |
| 05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel .....                                   | 14.58                     |                         |
| 05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel .....                                      | 15.07                     |                         |
| 05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel .....  | 16.14                     |                         |
| 05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel .....                                       | 32.39                     |                         |
| <br>05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)   |                           |                         |
| 05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....                                      | 6.58                      |                         |
| 05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel .....  | 13.44                     |                         |
| 05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....   | 17.65                     |                         |
| 05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....  | 26.31                     |                         |
| <br>05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)                        |                           |                         |
| Note: Includes factory primed, fasteners and field touch-up of welds.   |                           |                         |
| 05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....      | 38.37                     | 6.59                    |
| For Schedule 80 Handrail, Add   | 3.62                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -4.82                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -5.47                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -7.22                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -8.54                     |                         |
| For Stainless Steel, Add  | 43.78                     |                         |
| For Aluminum, Satin Finish, Add   | 9.19                      |                         |
| For Curved Rail, Add  | 11.51                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 14.23                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 16.42                     |                         |
| For Galvanized Finish, Add  | 6.57                      |                         |
| 05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing ..... | 39.08                     | 6.59                    |
| For Schedule 80 Handrail, Add   | 4.53                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -4.97                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -5.65                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -7.46                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -8.81                     |                         |
| For Stainless Steel, Add  | 45.20                     |                         |
| For Aluminum, Satin Finish, Add   | 9.49                      |                         |
| For Curved Rail, Add  | 11.72                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 14.69                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 16.95                     |                         |
| For Galvanized Finish, Add  | 6.78                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 52 13 00-0045 LF 1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....               | 39.79                     | 6.59                    |
| For Schedule 80 Handrail, Add   | 16.97                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -5.13                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -5.83                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -7.69                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -9.09                     |                         |
| For Stainless Steel, Add  | 46.62                     |                         |
| For Aluminum, Satin Finish, Add   | 9.79                      |                         |
| For Curved Rail, Add  | 11.94                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 15.15                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 17.48                     |                         |
| For Galvanized Finish, Add  | 6.99                      |                         |
| 05 52 13 00-0046 LF 2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....                    | 47.91                     | 6.59                    |
| For Schedule 80 Handrail, Add   | 6.23                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -6.91                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -7.86                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -10.37                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -12.26                    |                         |
| For Stainless Steel, Add  | 62.86                     |                         |
| For Aluminum, Satin Finish, Add   | 13.20                     |                         |
| For Curved Rail, Add  | 14.37                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 20.43                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 23.57                     |                         |
| For Galvanized Finish, Add  | 9.43                      |                         |
| 05 52 13 00-0047 LF 2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....               | 54.62                     | 6.59                    |
| For Schedule 80 Handrail, Add   | 7.00                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -8.39                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -9.54                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -12.59                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -14.87                    |                         |
| For Stainless Steel, Add  | 76.28                     |                         |
| For Aluminum, Satin Finish, Add   | 16.02                     |                         |
| For Curved Rail, Add  | 16.39                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 24.79                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 28.61                     |                         |
| For Galvanized Finish, Add  | 11.44                     |                         |
| <b>05 52 13 00-0048 Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel<br/>Pipe Railings</b> <small>(05 52 13)</small> |                           |                         |
| Note: Includes factory primed, fasteners and field touch-up of welds.   |                           |                         |
| 05 52 13 00-0049 LF 1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....                 | 46.67                     | 6.92                    |
| For Schedule 80 Handrail, Add   | 3.62                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -6.64                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -7.55                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -9.96                     |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -11.77                    |                         |
| For Stainless Steel, Add  | 60.38                     |                         |
| For Aluminum, Satin Finish, Add   | 12.68                     |                         |
| For Curved Rail, Add  | 14.00                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 19.62                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 22.64                     |                         |
| For Galvanized Finish, Add  | 9.06                      |                         |
| 05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....              | 47.66                     | 6.92                    |
| For Schedule 80 Handrail, Add   | 4.53                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -6.86                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -7.80                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -10.29                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -12.16                    |                         |
| For Stainless Steel, Add  | 62.36                     |                         |
| For Aluminum, Satin Finish, Add   | 13.10                     |                         |
| For Curved Rail, Add  | 14.30                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 20.27                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 23.39                     |                         |
| For Galvanized Finish, Add  | 9.35                      |                         |
| 05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....              | 48.40                     | 6.92                    |
| For Schedule 80 Handrail, Add   | 16.97                     |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -7.02                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -7.98                     |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -10.53                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -12.45                    |                         |
| For Stainless Steel, Add  | 63.84                     |                         |
| For Aluminum, Satin Finish, Add   | 13.41                     |                         |
| For Curved Rail, Add  | 14.52                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 20.75                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 23.94                     |                         |
| For Galvanized Finish, Add  | 9.58                      |                         |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Railings     | 05 52     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....   | 59.74                     | 6.92                    |
| For Schedule 80 Handrail, Add   | 6.23                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -9.52                     |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -10.82                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -14.28                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -16.87                    |                         |
| For Stainless Steel, Add  | 86.52                     |                         |
| For Aluminum, Satin Finish, Add   | 18.17                     |                         |
| For Curved Rail, Add  | 17.92                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 28.12                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 32.45                     |                         |
| For Galvanized Finish, Add  | 12.98                     |                         |
| 05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing .....   | 67.15                     | 6.92                    |
| For Schedule 80 Handrail, Add   | 7.00                      |                         |
| For 11 Gauge A513 Steel Tubing, Deduct  | -11.15                    |                         |
| For 12 Gauge A513 Steel Tubing, Deduct  | -12.67                    |                         |
| For 14 Gauge A513 Steel Tubing, Deduct  | -16.72                    |                         |
| For 16 Gauge A513 Steel Tubing, Deduct  | -19.76                    |                         |
| For Stainless Steel, Add  | 101.34                    |                         |
| For Aluminum, Satin Finish, Add   | 21.28                     |                         |
| For Curved Rail, Add  | 20.15                     |                         |
| For Aluminum, Clear Anodized Finish, Add  | 32.94                     |                         |
| For Aluminum, Dark Anodized Finish, Add   | 38.00                     |                         |
| For Galvanized Finish, Add  | 15.20                     |                         |
| <b>05 52 13 00-0054 Remove And Reinstall Pipe Railing</b> <small>(05 52 13)</small>   |                           |                         |
| 05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing .....   | 24.73                     |                         |
| 05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing .....  | 33.09                     |                         |
| 05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket .....   | 65.65                     |                         |
| For Stainless Steel, Add  | 65.36                     |                         |
| <b>05 53 Metal Gratings</b> <small>(05 50)</small>  |                           |                         |
| <b>05 53 13 Bar Gratings</b> <small>(05 53)</small>   |                           |                         |
| <b>05 53 13 00-0001 Welded Grating</b> <small>(05 53 13)</small>  |                           |                         |
| Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel. |                           |                         |
| <b>05 53 13 00-0002 Steel, Welded Grating</b> <small>(05 53 13 00-0001)</small>   |                           |                         |
| Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.   |                           |                         |
| 05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating .....   | 13.70                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add  | 0.22                      |                         |
| For Galvanized Steel, Add   | 1.92                      |                         |
| For 304 Stainless Steel, Add  | 36.24                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center   |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add   | 3.30                      |                         |
| For Crossbars At 2" On-Center, Add  | 1.22                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct  | -1.90                     |                         |
| 05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating .....  | 18.38                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add  | 0.22                      |                         |
| For Galvanized Steel, Add   | 2.71                      |                         |
| For 304 Stainless Steel, Add  | 51.26                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center   |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add   | 4.66                      |                         |
| For Crossbars At 2" On-Center, Add  | 1.72                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct  | -2.01                     |                         |
| 05 53 13 00-0005 SF 1" x 1/8" Steel, Welded Grating .....   | 16.71                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add  | 0.22                      |                         |
| For Galvanized Steel, Add   | 2.43                      |                         |
| For 304 Stainless Steel, Add  | 45.90                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center   |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add   | 4.18                      |                         |
| For Crossbars At 2" On-Center, Add  | 1.54                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct  | -1.97                     |                         |
| 05 53 13 00-0006 SF 1" x 3/16" Steel, Welded Grating .....  | 23.05                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add  | 0.22                      |                         |
| For Galvanized Steel, Add   | 3.51                      |                         |
| For 304 Stainless Steel, Add  | 66.25                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center   |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add   | 6.03                      |                         |
| For Crossbars At 2" On-Center, Add  | 2.23                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct  | -2.13                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 53 13 00-0007 SF 1" x 1/4" Steel, Welded Grating .....             | 29.40                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 4.59                      |                         |
| For 304 Stainless Steel, Add  | 86.64                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 7.88                      |                         |
| For Crossbars At 2" On-Center, Add                                    | 2.91                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.29                     |                         |
| 05 53 13 00-0008 SF 1-1/4" x 1/8" Steel, Welded Grating .....         | 19.75                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 2.95                      |                         |
| For 304 Stainless Steel, Add  | 55.66                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 5.06                      |                         |
| For Crossbars At 2" On-Center, Add                                    | 1.87                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.05                     |                         |
| 05 53 13 00-0009 SF 1-1/4" x 3/16" Steel, Welded Grating .....        | 27.46                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 4.26                      |                         |
| For 304 Stainless Steel, Add  | 80.41                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 7.31                      |                         |
| For Crossbars At 2" On-Center, Add                                    | 2.71                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.24                     |                         |
| 05 53 13 00-0010 SF 1-1/2" x 1/8" Steel, Welded Grating .....         | 22.79                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 3.46                      |                         |
| For 304 Stainless Steel, Add  | 65.42                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 5.95                      |                         |
| For Crossbars At 2" On-Center, Add                                    | 2.20                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.12                     |                         |
| 05 53 13 00-0011 SF 1-1/2" x 3/16" Steel, Welded Grating .....        | 32.66                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 5.05                      |                         |
| For 304 Stainless Steel, Add  | 95.30                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 8.67                      |                         |
| For Crossbars At 2" On-Center, Add                                    | 3.21                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.73                     |                         |
| 05 53 13 00-0012 SF 1-1/2" x 1/4" Steel, Welded Grating .....         | 42.32                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 6.69                      |                         |
| For 304 Stainless Steel, Add  | 126.31                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 11.49                     |                         |
| For Crossbars At 2" On-Center, Add                                    | 4.25                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.97                     |                         |
| 05 53 13 00-0013 SF 1-3/4" x 3/16" Steel, Welded Grating .....        | 37.37                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 5.85                      |                         |
| For 304 Stainless Steel, Add  | 110.42                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 10.04                     |                         |
| For Crossbars At 2" On-Center, Add                                    | 3.72                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.85                     |                         |
| 05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating.....             | 41.78                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 6.60                      |                         |
| For 304 Stainless Steel, Add  | 124.58                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 11.33                     |                         |
| For Crossbars At 2" On-Center, Add                                    | 4.19                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -2.96                     |                         |
| 05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating .....        | 46.46                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add                | 0.22                      |                         |
| For Galvanized Steel, Add   | 7.39                      |                         |
| For 304 Stainless Steel, Add  | 139.60                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add                             | 12.70                     |                         |
| For Crossbars At 2" On-Center, Add                                    | 4.70                      |                         |
| For Serrated Wear Surface, Add  | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct              | -3.08                     |                         |



|  |                    |           |           |
|--|--------------------|-----------|-----------|
|  | <b>Metals</b>      | <b>05</b> | <b>05</b> |
|  | Metal Fabrications | 05 50     |           |
|  | Metal Gratings     | 05 53     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating .....   | 50.87                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 8.14                      |                         |
| For 304 Stainless Steel, Add   | 153.76                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 13.99                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.17                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.19                     |                         |
| <b>05 53 13 00-0017 Pressure Locked Grating</b> <small>(05 53 13)</small>  |                           |                         |
| Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit. |                           |                         |
| <b>05 53 13 00-0018 Steel, Pressure Locked Grating</b> <small>(05 53 13 00-0017)</small>   |                           |                         |
| Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.  |                           |                         |
| 05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating.....  | 25.96                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 3.86                      |                         |
| For 304 Stainless Steel, Add   | 44.06                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 6.88                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.54                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.20                     |                         |
| 05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating.....   | 31.97                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.85                      |                         |
| For 304 Stainless Steel, Add   | 55.31                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 8.63                      |                         |
| For Crossbars At 2" On-Center, Add   | 3.19                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.35                     |                         |
| 05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating.....  | 28.53                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.28                      |                         |
| For 304 Stainless Steel, Add   | 48.87                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 7.63                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.82                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.27                     |                         |
| 05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....   | 38.85                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.98                      |                         |
| For 304 Stainless Steel, Add   | 68.18                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 7/16" On-Center, Add   | 52.84                     |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 10.64                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.94                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.53                     |                         |
| 05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....  | 31.97                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.85                      |                         |
| For 304 Stainless Steel, Add   | 55.31                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 8.63                      |                         |
| For Crossbars At 2" On-Center, Add   | 3.19                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.35                     |                         |
| 05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....   | 43.63                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 6.76                      |                         |
| For 304 Stainless Steel, Add   | 77.12                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 12.04                     |                         |
| For Crossbars At 2" On-Center, Add   | 4.45                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.65                     |                         |
| 05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....  | 35.58                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.44                      |                         |
| For 304 Stainless Steel, Add   | 62.06                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 9.69                      |                         |
| For Crossbars At 2" On-Center, Add   | 3.58                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.44                     |                         |





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....                                 | 49.20                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 7.58                      |                         |
| For 304 Stainless Steel, Add   | 86.50                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 7/16" On-Center, Add   | 67.03                     |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 13.50                     |                         |
| For Crossbars At 2" On-Center, Add   | 4.99                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.15                     |                         |
| 05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....                                 | 54.24                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 8.41                      |                         |
| For 304 Stainless Steel, Add   | 95.93                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 14.97                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.54                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.27                     |                         |
| 05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....                                     | 58.35                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 9.08                      |                         |
| For 304 Stainless Steel, Add   | 103.62                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 16.17                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.98                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.37                     |                         |
| 05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....                                 | 62.29                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 9.73                      |                         |
| For 304 Stainless Steel, Add   | 110.99                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 17.32                     |                         |
| For Crossbars At 2" On-Center, Add   | 6.41                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.47                     |                         |
| 05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....                                 | 65.70                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 10.29                     |                         |
| For 304 Stainless Steel, Add   | 117.37                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 18.32                     |                         |
| For Crossbars At 2" On-Center, Add   | 6.77                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.56                     |                         |
| <b>05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating</b> (05 53 13 00-0017)                |                           |                         |
| Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes. |                           |                         |
| 05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating.....                                 | 17.11                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 4.29                      |                         |
| For Crossbars At 2" On-Center, Add   | 1.59                      |                         |
| For Set In Place Without Bolting, Deduct   | -1.98                     |                         |
| For Powder Coating, Add  | 2.21                      |                         |
| 05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating.....                                | 23.14                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 6.05                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.24                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.13                     |                         |
| For Powder Coating, Add  | 3.11                      |                         |
| 05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating.....                                   | 21.84                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 5.67                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.10                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.10                     |                         |
| For Powder Coating, Add  | 2.91                      |                         |
| 05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....                                  | 29.63                     | 1.21                    |
| For Bearing Bars At 7/16" On-Center, Add   | 39.47                     |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 7.95                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.94                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.30                     |                         |
| For Powder Coating, Add  | 4.08                      |                         |
| 05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....                               | 25.27                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 6.68                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.47                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.19                     |                         |
| For Powder Coating, Add  | 3.43                      |                         |
| 05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....                              | 33.76                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 9.15                      |                         |
| For Crossbars At 2" On-Center, Add   | 3.39                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.40                     |                         |
| For Powder Coating, Add  | 4.70                      |                         |



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|  | <b>Metals</b>      | <b>05</b> |
|  | Metal Fabrications | 05 50     |
|  | Metal Gratings     | 05 53     |

05

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....   | 28.49                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 7.62                      |                         |
| For Crossbars At 2" On-Center, Add   | 2.82                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.27                     |                         |
| For Powder Coating, Add  | 3.91                      |                         |
| 05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....  | 38.02                     | 1.21                    |
| For Bearing Bars At 7/16" On-Center, Add   | 51.63                     |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 10.40                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.85                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.50                     |                         |
| For Powder Coating, Add  | 5.34                      |                         |
| 05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....  | 42.10                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 11.59                     |                         |
| For Crossbars At 2" On-Center, Add   | 4.29                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.61                     |                         |
| For Powder Coating, Add  | 5.95                      |                         |
| 05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating.....  | 46.93                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 13.00                     |                         |
| For Crossbars At 2" On-Center, Add   | 4.81                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.73                     |                         |
| For Powder Coating, Add  | 6.68                      |                         |
| 05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....  | 50.72                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 14.11                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.22                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.82                     |                         |
| For Powder Coating, Add  | 7.25                      |                         |
| 05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....  | 55.24                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 15.43                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.71                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.94                     |                         |
| For Powder Coating, Add  | 7.92                      |                         |
| <b>05 53 13 00-0044 Swage Locked Grating</b> <small>(05 53 13)</small>   |                           |                         |
| Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place. |                           |                         |
| <b>05 53 13 00-0045 Steel, Swage Locked Grating</b> <small>(05 53 13 00-0044)</small>  |                           |                         |
| Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.  |                           |                         |
| 05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating.....  | 42.53                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 3.69                      |                         |
| For 304 Stainless Steel, Add   | 66.52                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 25.68                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.21                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.62                     |                         |
| 05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating.....  | 47.47                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.15                      |                         |
| For 304 Stainless Steel, Add   | 74.71                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 28.84                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.60                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -2.74                     |                         |
| 05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating.....  | 51.90                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.50                      |                         |
| For 304 Stainless Steel, Add   | 81.13                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 31.32                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.91                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.21                     |                         |
| 05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating.....  | 59.49                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.20                      |                         |
| For 304 Stainless Steel, Add   | 93.71                     |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 36.17                     |                         |
| For Crossbars At 2" On-Center, Add   | 4.52                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.40                     |                         |

**05 Metals****05 50 Metal Fabrications****05 53 Metal Gratings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating.....  | 67.10                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.90                      |                         |
| For 304 Stainless Steel, Add   | 106.33                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 41.04                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.13                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.59                     |                         |
| 05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating.....  | 74.69                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 6.60                      |                         |
| For 304 Stainless Steel, Add   | 118.91                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 45.90                     |                         |
| For Crossbars At 2" On-Center, Add   | 5.74                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.78                     |                         |
| 05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating.....  | 82.30                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 7.30                      |                         |
| For 304 Stainless Steel, Add   | 131.53                    |                         |
| Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center                                  |                           |                         |
| For Bearing Bars At 15/16" On-Center, Add  | 50.77                     |                         |
| For Crossbars At 2" On-Center, Add   | 6.35                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.97                     |                         |
| <b>05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked</b> (05 53 13 00-0044)                   |                           |                         |
| Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes. |                           |                         |
| 05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating.....  | 20.18                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 11.37                     |                         |
| For Crossbars At 2" On-Center, Add   | 1.42                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.06                     |                         |
| For Powder Coating, Add  | 2.67                      |                         |
| 05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating.....   | 26.13                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 15.18                     |                         |
| For Crossbars At 2" On-Center, Add   | 1.90                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.21                     |                         |
| For Powder Coating, Add  | 3.56                      |                         |
| 05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating.....  | 22.85                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 13.08                     |                         |
| For Crossbars At 2" On-Center, Add   | 1.64                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.13                     |                         |
| For Powder Coating, Add  | 3.07                      |                         |
| 05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating.....                                       | 30.13                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 17.74                     |                         |
| For Crossbars At 2" On-Center, Add   | 2.22                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.31                     |                         |
| For Powder Coating, Add  | 4.16                      |                         |
| 05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating.....  | 26.02                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 15.11                     |                         |
| For Crossbars At 2" On-Center, Add   | 1.89                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.20                     |                         |
| For Powder Coating, Add  | 3.54                      |                         |
| 05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating.....                                       | 34.41                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 20.48                     |                         |
| For Crossbars At 2" On-Center, Add   | 2.56                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.41                     |                         |
| For Powder Coating, Add  | 4.80                      |                         |
| 05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....                                       | 39.35                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 23.64                     |                         |
| For Crossbars At 2" On-Center, Add   | 2.96                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.54                     |                         |
| For Powder Coating, Add  | 5.54                      |                         |
| 05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....   | 44.26                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 26.78                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.35                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.66                     |                         |
| For Powder Coating, Add  | 6.28                      |                         |
| 05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....                                       | 49.19                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 29.94                     |                         |
| For Crossbars At 2" On-Center, Add   | 3.74                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.78                     |                         |
| For Powder Coating, Add  | 7.02                      |                         |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Gratings     | 05 53     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....   | 54.10                     | 1.21                    |
| For Bearing Bars At 15/16" On-Center, Add  | 33.08                     |                         |
| For Crossbars At 2" On-Center, Add   | 4.14                      |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting, Deduct   | -2.91                     |                         |
| For Powder Coating, Add  | 7.75                      |                         |
| <br>   |                           |                         |
| 05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>   |                           |                         |
| Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together. |                           |                         |
| 05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>  |                           |                         |
| Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.  |                           |                         |
| 05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....  | 80.87                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 3.77                      |                         |
| For 304 Stainless Steel, Add   | 67.40                     |                         |
| For 5/8" Clear Opening, Add  | 27.07                     |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.58                     |                         |
| 05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....   | 95.24                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.46                      |                         |
| For 304 Stainless Steel, Add   | 79.74                     |                         |
| For 5/8" Clear Opening, Add  | 32.03                     |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.94                     |                         |
| 05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....  | 87.49                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.08                      |                         |
| For 304 Stainless Steel, Add   | 73.08                     |                         |
| For 5/8" Clear Opening, Add  | 29.35                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.74                     |                         |
| 05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....   | 100.71                    | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.72                      |                         |
| For 304 Stainless Steel, Add   | 84.44                     |                         |
| For 5/8" Clear Opening, Add  | 33.91                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -4.07                     |                         |
| 05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....  | 92.96                     | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.35                      |                         |
| For 304 Stainless Steel, Add   | 77.78                     |                         |
| For 5/8" Clear Opening, Add  | 31.24                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -3.88                     |                         |
| 05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....  | 110.90                    | 1.21                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.21                      |                         |
| For 304 Stainless Steel, Add   | 93.19                     |                         |
| For 5/8" Clear Opening, Add  | 37.43                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -4.33                     |                         |
| 05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....   | 98.80                     | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 4.60                      |                         |
| For 304 Stainless Steel, Add   | 82.32                     |                         |
| For 5/8" Clear Opening, Add  | 33.06                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -4.39                     |                         |
| 05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....  | 117.98                    | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.52                      |                         |
| For 304 Stainless Steel, Add   | 98.79                     |                         |
| For 5/8" Clear Opening, Add  | 39.68                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -4.87                     |                         |
| 05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....  | 127.76                    | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 5.99                      |                         |
| For 304 Stainless Steel, Add   | 107.19                    |                         |
| For 5/8" Clear Opening, Add  | 43.05                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -5.11                     |                         |
| 05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....  | 149.61                    | 1.49                    |
| For One Coat Of Shop Applied Paint (Red Or Black), Add   | 0.22                      |                         |
| For Galvanized Steel, Add  | 7.04                      |                         |
| For 304 Stainless Steel, Add   | 125.96                    |                         |
| For 5/8" Clear Opening, Add  | 50.59                     |                         |
| For Serrated Wear Surface, Add   | 0.16                      |                         |
| For Set In Place Without Bolting Or Tack Welding, Deduct   | -5.66                     |                         |

**05 Metals****05 50 Metal Fabrications****05 53 Metal Gratings**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                                     | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|--|----------------------|
| 05 53 13 00-0076        | SF  |     | 2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating<br><i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i><br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Set In Place Without Bolting Or Tack Welding, Deduct</i> | 157.22<br>0.22<br>7.40<br>132.50<br>53.22<br>0.16<br>-5.85 | 1.49                 |
| 05 53 13 00-0077        | SF  |     | 2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating<br><i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i><br><i>For Galvanized Steel, Add</i><br><i>For 304 Stainless Steel, Add</i><br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Set In Place Without Bolting Or Tack Welding, Deduct</i> | 164.00<br>0.22<br>7.73<br>138.32<br>55.56<br>0.16<br>-6.02 | 1.49                 |
| <b>05 53 13 00-0078</b> |     |     | <b>Aluminum, Riveted Grating</b> <small>(05 53 13 00-0064)</small><br>Note: 1" clear opening, bolted in place and in all sizes.  |  |                      |
| 05 53 13 00-0079        | SF  |     | 3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 42.98<br>14.00<br>6.09<br>-2.63                            | 1.21                 |
| 05 53 13 00-0080        | SF  |     | 3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>  | 51.01<br>16.77<br>7.29<br>-2.83                            | 1.21                 |
| 05 53 13 00-0081        | SF  |     | 1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>  | 47.27<br>15.48<br>0.16<br>6.73<br>-2.74                    | 1.21                 |
| 05 53 13 00-0082        | SF  |     | 1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 55.11<br>18.18<br>0.16<br>7.91<br>-2.93                    | 1.21                 |
| 05 53 13 00-0083        | SF  |     | 1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>  | 53.01<br>17.46<br>0.16<br>7.59<br>-2.88                    | 1.21                 |
| 05 53 13 00-0084        | SF  |     | 1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 63.89<br>21.21<br>0.16<br>9.22<br>-3.15                    | 1.21                 |
| 05 53 13 00-0085        | SF  |     | 1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>  | 56.93<br>18.81<br>0.16<br>8.18<br>-2.98                    | 1.21                 |
| 05 53 13 00-0086        | SF  |     | 1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 70.75<br>23.58<br>0.16<br>10.25<br>-3.32                   | 1.21                 |
| 05 53 13 00-0087        | SF  |     | 1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 78.00<br>26.08<br>0.16<br>11.34<br>-3.50                   | 1.21                 |
| 05 53 13 00-0088        | SF  |     | 2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 92.88<br>31.21<br>0.16<br>13.57<br>-3.88                   | 1.21                 |
| 05 53 13 00-0089        | SF  |     | 2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 101.33<br>34.13<br>0.16<br>14.84<br>-4.09                  | 1.21                 |
| 05 53 13 00-0090        | SF  |     | 2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating<br><i>For 5/8" Clear Opening, Add</i><br><i>For Serrated Wear Surface, Add</i><br><i>For Powder Coating, Add</i><br><i>For Set In Place Without Bolting, Deduct</i>   | 112.65<br>38.03<br>0.16<br>16.54<br>-4.37                  | 1.21                 |

**05 54 Metal Floor Plates** (05 50)**05 54 00 00-0001 Steel Floor Plates** (05 54)

|                  |    |  |   |       |      |
|------------------|----|--|---|-------|------|
| 05 54 00 00-0002 | SF |  | 16 Gauge Steel Raised Or Diamond Pattern Floor Plates | 20.86 | 1.42 |
| 05 54 00 00-0003 | SF |  | 14 Gauge Steel Raised Or Diamond Pattern Floor Plates | 23.91 | 1.42 |
| 05 54 00 00-0004 | SF |  | 12 Gauge Steel Raised Or Diamond Pattern Floor Plates | 30.07 | 1.42 |
| 05 54 00 00-0005 | SF |  | 1/8" Steel Raised Or Diamond Pattern Floor Plates     | 40.30 | 1.54 |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Floor Plates | 05 54     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 54 00 00-0006 SF 1/4" Steel Raised Or Diamond Pattern Floor Plates .....   | 51.34                     | 1.65                    |
| <b>05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)</b>   |                           |                         |
| 05 54 00 00-0008 SF 0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....<br><i>For Powder Coating, Add</i>                | 29.99<br>4.14             | 1.21                    |
| 05 54 00 00-0009 SF 0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....<br><i>For Powder Coating, Add</i>                | 34.41<br>4.75             | 1.42                    |
| 05 54 00 00-0010 SF 0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....<br><i>For Powder Coating, Add</i>                 | 38.85<br>5.37             | 1.54                    |
| <b>05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)</b>   |                           |                         |
| 05 54 00 00-0012 SF 1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....  | 39.20                     | 1.65                    |
| 05 54 00 00-0013 SF 3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....   | 46.87                     | 1.87                    |
| 05 54 00 00-0014 SF 1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....  | 60.74                     | 2.20                    |
| <b>05 55 Metal Stair Treads and Nosings (05 50)</b>   |                           |                         |
| <b>05 55 13 Metal Stair Treads (05 55)</b>  |                           |                         |
| <b>05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)</b>  |                           |                         |
| Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.  |                           |                         |
| 05 55 13 00-0002 LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread .....   | 72.52                     | 6.98                    |
| <i>For 3/8" Thick, Add</i>  | 15.34                     |                         |
| 05 55 13 00-0003 LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread .....   | 79.85                     | 6.98                    |
| <i>For 3/8" Thick, Add</i>  | 17.17                     |                         |
| 05 55 13 00-0004 LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread .....  | 87.16                     | 6.98                    |
| <i>For 3/8" Thick, Add</i>  | 19.00                     |                         |
| 05 55 13 00-0005 LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread .....  | 94.52                     | 6.98                    |
| <i>For 3/8" Thick, Add</i>  | 20.84                     |                         |
| 05 55 13 00-0006 LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread .....  | 101.80                    | 6.98                    |
| <i>For 3/8" Thick, Add</i>  | 22.66                     |                         |
| <b>05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)</b>  |                           |                         |
| Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.  |                           |                         |
| 05 55 13 00-0008 LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....  | 100.95                    | 6.98                    |
| 05 55 13 00-0009 LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....  | 111.81                    | 6.98                    |
| 05 55 13 00-0010 LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....   | 122.69                    | 6.98                    |
| 05 55 13 00-0011 LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....   | 133.56                    | 6.98                    |
| 05 55 13 00-0012 LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread .....   | 144.44                    | 6.98                    |
| <b>05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)</b>                               |                           |                         |
| Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers. |                           |                         |
| 05 55 13 00-0014 LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....  | 38.23                     | 6.98                    |
| 05 55 13 00-0015 LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....      | 44.87                     | 6.98                    |
| 05 55 13 00-0016 LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....     | 47.80                     | 6.98                    |
| <b>05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13)</b>                           |                           |                         |
| Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers. |                           |                         |
| 05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....  | 56.56                     | 6.98                    |
| <i>For Epoxy Sealed For Corrosive Environment, Add</i>  | 4.61                      |                         |
| <i>For Two Color Tread, Add</i>   | 3.46                      |                         |
| 05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....  | 57.11                     | 6.98                    |
| <i>For Epoxy Sealed For Corrosive Environment, Add</i>  | 4.61                      |                         |
| <i>For Two Color Tread, Add</i>   | 3.46                      |                         |
| 05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... | 69.06                     | 6.98                    |
| <i>For Epoxy Sealed For Corrosive Environment, Add</i>  | 4.61                      |                         |
| <i>For Two Color Tread, Add</i>   | 3.46                      |                         |
| 05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... | 79.53                     | 6.98                    |
| <i>For Epoxy Sealed For Corrosive Environment, Add</i>  | 4.61                      |                         |
| <i>For Two Color Tread, Add</i>   | 3.46                      |                         |
| 05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread ..... | 93.18                     | 6.98                    |
| <i>For Epoxy Sealed For Corrosive Environment, Add</i>  | 4.61                      |                         |
| <i>For Two Color Tread, Add</i>   | 3.46                      |                         |
| <b>05 55 13 00-0023 Stair Landing Treads (05 55 13)</b>   |                           |                         |
| <b>05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads (05 55 13 00-0023)</b>  |                           |                         |
| Note: Includes abrasive diamond pattern surface and anchors.  |                           |                         |
| 05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads .....  | 101.80                    | 6.98                    |
| <i>For 3/8" Thick, Add</i>  | 22.66                     |                         |

**05 Metals****05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads</b> <small>(05 55 13 00-0023)</small><br>Note: Includes abrasive diamond pattern surface and anchors.   |                           |                         |
| 05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....  | 144.44                    | 6.98                    |
| <b>05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads</b> <small>(05 55 13 00-0023)</small><br>Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. |                           |                         |
| 05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads .....<br><i>For Epoxy Sealed For Corrosive Environment, Add</i>   | 94.38<br>4.61             | 6.98                    |
| <b>05 55 13 00-0030 Open Cast Iron Stair Tread</b> <small>(05 55 13)</small><br>Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.   |                           |                         |
| 05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread.....<br><i>For Closed Riser, Add</i>  | 731.32<br>62.69           | 43.95                   |
| 05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread.....<br><i>For Closed Riser, Add</i>  | 819.59<br>70.09           | 50.55                   |
| 05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread.....<br><i>For Closed Riser, Add</i>  | 902.49<br>77.09           | 59.33                   |
| <b>05 55 16 Metal Stair Nosings</b> <small>(05 55)</small>  |                           |                         |
| <b>05 55 16 00-0001 Abrasive Cast Aluminum Nosings</b> <small>(05 55 16)</small><br>Note: Includes abrasive diamond pattern surface and anchors.  |                           |                         |
| 05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....<br><i>For 3/8" Thick, Add</i>   | 30.60<br>5.75             | 4.77                    |
| 05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....<br><i>For 3/8" Thick, Add</i>   | 37.68<br>7.52             | 4.77                    |
| 05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....<br><i>For 3/8" Thick, Add</i>   | 53.45<br>11.46            | 4.77                    |
| <b>05 55 16 00-0005 Abrasive Cast Iron Nosings</b> <small>(05 55 16)</small><br>Note: Includes abrasive diamond pattern surface and anchors.  |                           |                         |
| 05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....<br><i>For 3/8" Thick, Add</i>   | 35.76<br>7.04             | 4.77                    |
| 05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....<br><i>For 3/8" Thick, Add</i>   | 44.48<br>9.22             | 4.77                    |
| 05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....<br><i>For 3/8" Thick, Add</i>   | 61.70<br>13.52            | 4.77                    |
| <b>05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings</b> <small>(05 55 16)</small><br>Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.                                 |                           |                         |
| 05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 25.80                     | 4.77                    |
| 05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 29.21                     | 4.77                    |
| 05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 31.82                     | 4.77                    |
| 05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 39.91                     | 4.77                    |
| 05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 26.72                     | 4.77                    |
| 05 55 16 00-0015 LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 29.63                     | 4.77                    |
| 05 55 16 00-0016 LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 32.51                     | 4.77                    |
| 05 55 16 00-0017 LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....  | 30.76                     | 4.77                    |
| <b>05 56 Metal Castings</b> <small>(05 50)</small>  |                           |                         |
| <b>05 56 00 00-0001 Castings</b> <small>(05 56)</small>   |                           |                         |
| 05 56 00 00-0002 LB Up To 150 LB, Miscellaneous Castings, Light Section.....  | 5.74                      | 0.55                    |
| 05 56 00 00-0003 LB >150 LB, Miscellaneous Castings, Heavy Section.....   | 9.88                      | 0.44                    |
| <b>05 58 Formed Metal Fabrications</b> <small>(05 50)</small>   |                           |                         |
| <b>05 58 16 Formed Metal Enclosures</b> <small>(05 58)</small>  |                           |                         |
| <b>05 58 16 00-0001 Drip Pan</b> <small>(05 58 16)</small>  |                           |                         |
| 05 58 16 00-0002 SF Stainless Steel Drip Pan.....   | 115.05                    | 7.68                    |
| 05 58 16 00-0003 SF Galvanized Steel Drip Pan.....  | 113.67                    | 7.68                    |
| 05 58 16 00-0004 SF Aluminum Drip Pan.....  | 79.95                     | 6.14                    |
| 05 58 16 00-0005 SF Plastic Drip Pan.....   | 21.58                     | 5.38                    |
| <b>05 58 23 Formed Metal Guards</b> <small>(05 58)</small>  |                           |                         |
| <b>05 58 23 00-0001 Protective Guard Rails</b> <small>(05 58 23)</small><br>Note: Includes painted finish.  |                           |                         |



|                                  |              |           |
|----------------------------------|--------------|-----------|
| <b>Metals</b>                    | <b>05</b>    | <b>05</b> |
| <b>Metal Fabrications</b>        | <b>05 50</b> |           |
| <b>Formed Metal Fabrications</b> | <b>05 58</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>05 58 23 00-0002</b> <b>2-Rib, 11 Gauge Steel, Protective Guard Rails</b> (05 58 23 00-0001)<br>Note: Steel King Armor Guard.  |                           |                         |
| <b>05 58 23 00-0003</b> <b>Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails</b> (05 58 23 00-0002)<br>Note: Excludes posts. Includes fasteners.   |                           |                         |
| 05 58 23 00-0004     EA     1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 209.04                    | 22.87                   |
| 05 58 23 00-0005     EA     2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 245.70                    | 22.87                   |
| 05 58 23 00-0006     EA     3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 280.28                    | 22.87                   |
| 05 58 23 00-0007     EA     4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 316.95                    | 22.87                   |
| 05 58 23 00-0008     EA     5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 351.73                    | 22.87                   |
| 05 58 23 00-0009     EA     6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 396.81                    | 22.87                   |
| 05 58 23 00-0010     EA     7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 427.53                    | 22.87                   |
| 05 58 23 00-0011     EA     8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 475.09                    | 22.87                   |
| 05 58 23 00-0012     EA     9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 506.30                    | 22.87                   |
| 05 58 23 00-0013     EA     10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 528.60                    | 22.87                   |
| <b>05 58 23 00-0014</b> <b>Posts For 2-Rib Guard Rails</b> (05 58 23 00-0002)<br>Note: Includes drilling, surface mounting plate and anchors.   |                           |                         |
| 05 58 23 00-0015     EA     12" Height, Single Rail Post For 2-Rib Guard Rails .....  | 420.29                    | 47.64                   |
| 05 58 23 00-0016     EA     42" Height, Triple Rail Post For 2-Rib Guard Rails .....  | 547.62                    | 47.64                   |
| <b>05 58 23 00-0017</b> <b>3-Rib, 11 Gauge Steel, Protective Guard Rails</b> (05 58 23 00-0001)<br>Note: Steel King Steel Guard.  |                           |                         |
| <b>05 58 23 00-0018</b> <b>Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails</b> (05 58 23 00-0017)<br>Note: Excludes posts. Includes fasteners.   |                           |                         |
| 05 58 23 00-0019     EA     1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 231.13                    | 22.87                   |
| 05 58 23 00-0020     EA     2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 255.51                    | 22.87                   |
| 05 58 23 00-0021     EA     3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 285.93                    | 22.87                   |
| 05 58 23 00-0022     EA     4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 314.37                    | 22.87                   |
| 05 58 23 00-0023     EA     5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 347.27                    | 22.87                   |
| 05 58 23 00-0024     EA     6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 363.12                    | 22.87                   |
| 05 58 23 00-0025     EA     7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 401.27                    | 22.87                   |
| 05 58 23 00-0026     EA     8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 433.47                    | 22.87                   |
| 05 58 23 00-0027     EA     9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 467.66                    | 22.87                   |
| 05 58 23 00-0028     EA     10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 502.34                    | 22.87                   |
| <b>05 58 23 00-0029</b> <b>Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails</b> (05 58 23 00-0017)<br>Note: Excludes posts. Includes fasteners and lift-out mounting plate.                            |                           |                         |
| 05 58 23 00-0030     EA     1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 340.83                    | 22.87                   |
| 05 58 23 00-0031     EA     2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 367.58                    | 22.87                   |
| 05 58 23 00-0032     EA     3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 395.32                    | 22.87                   |
| 05 58 23 00-0033     EA     4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 427.53                    | 22.87                   |
| 05 58 23 00-0034     EA     5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 459.73                    | 22.87                   |
| 05 58 23 00-0035     EA     6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 485.99                    | 22.87                   |
| 05 58 23 00-0036     EA     7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 516.21                    | 22.87                   |
| 05 58 23 00-0037     EA     8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 550.40                    | 22.87                   |
| 05 58 23 00-0038     EA     9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....   | 587.06                    | 22.87                   |
| 05 58 23 00-0039     EA     10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail .....  | 619.27                    | 22.87                   |
| <b>05 58 23 00-0040</b> <b>Posts For 3-Rib Guard Rails</b> (05 58 23 00-0017)<br>Note: Includes drilling, surface mounting plate and anchors.   |                           |                         |
| 05 58 23 00-0041     EA     18" Height, Single Rail Post For 3-Rib Guard Rails .....  | 369.56                    | 47.64                   |
| 05 58 23 00-0042     EA     42" Height, Double Rail Post For 3-Rib Guard Rails .....  | 472.81                    | 47.64                   |
| <b>05 58 23 00-0043</b> <b>All-Welded, Protective Guards</b> (05 58 23)<br>Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors. |                           |                         |
| <b>05 58 23 00-0044</b> <b>All-Welded, Protective Guards</b> (05 58 23 00-0043)   |                           |                         |
| 05 58 23 00-0045     EA     36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....   | 482.27                    | 63.51                   |
| 05 58 23 00-0046     EA     48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....   | 507.05                    | 63.51                   |
| 05 58 23 00-0047     EA     36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 521.41                    | 63.51                   |
| 05 58 23 00-0048     EA     48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 542.72                    | 63.51                   |
| 05 58 23 00-0049     EA     36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 537.76                    | 63.51                   |
| 05 58 23 00-0050     EA     48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 564.02                    | 63.51                   |
| 05 58 23 00-0051     EA     36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 571.45                    | 63.51                   |
| 05 58 23 00-0052     EA     48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 579.88                    | 63.51                   |
| 05 58 23 00-0053     EA     48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard .....  | 620.01                    | 63.51                   |
| <b>05 58 23 00-0054</b> <b>Corner Style, All-Welded, Protective Guards</b> (05 58 23 00-0043)   |                           |                         |
| 05 58 23 00-0055     EA     24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....  | 635.86                    | 63.51                   |
| 05 58 23 00-0056     EA     30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....  | 665.59                    | 63.51                   |
| 05 58 23 00-0057     EA     24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....  | 677.97                    | 63.51                   |
| 05 58 23 00-0058     EA     30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard .....  | 738.91                    | 63.51                   |



|    |  |
|----|--|
| 05 | <b>05 Metals</b>                       |
|    | <b>05 50 Metal Fabrications</b>        |
|    | <b>05 58 Formed Metal Fabrications</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|   |        |       |
|---|--------|-------|
| <b>05 58 23 00-0059 Warehouse Safety Bollards</b> <small>(05 58 23)</small>                           |        |       |
| Note: Includes painted finish, drilling, surface mounting plate and anchors.                          |        |       |
| 05 58 23 00-0060 EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard ..... | 304.17 | 47.64 |
| 05 58 23 00-0061 EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard ..... | 353.12 | 47.64 |
| 05 58 23 00-0062 EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard ..... | 404.94 | 47.64 |
| 05 58 23 00-0063 EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard ..... | 419.11 | 47.64 |
| 05 58 23 00-0064 EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard ..... | 451.81 | 47.64 |

**05 59 Metal Specialties** (05 50)

|  |        |       |
|--|--------|-------|
| <b>05 59 65 Metal Chain</b> <small>(05 59)</small>   |        |       |
| <b>05 59 65 00-0001 Alloy Steel Chain, Self Colored, Cut Length</b> <small>(05 59 65)</small>              |        |       |
| Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required. |        |       |
| 05 59 65 00-0002 LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                        | 6.66   | 1.06  |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 0.68   |       |
| 05 59 65 00-0003 LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                         | 7.87   | 1.41  |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 0.76   |       |
| 05 59 65 00-0004 LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                         | 12.45  | 2.82  |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 1.02   |       |
| 05 59 65 00-0005 LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                         | 19.98  | 4.76  |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 1.57   |       |
| 05 59 65 00-0006 LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                         | 33.73  | 8.04  |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 2.65   |       |
| 05 59 65 00-0007 LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                         | 47.34  | 11.28 |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 3.72   |       |
| 05 59 65 00-0008 LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                         | 64.53  | 14.10 |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 5.45   |       |
| 05 59 65 00-0009 LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                           | 93.30  | 18.80 |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 8.36   |       |
| 05 59 65 00-0010 LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....                       | 151.73 | 28.20 |
| <i>For Plastic Dipped, Add</i>   |        |       |
|  | 14.30  |       |

|  |          |        |
|--|----------|--------|
| <b>05 59 65 00-0011 316L Stainless Steel Chain, Cut Length</b> <small>(05 59 65)</small> |          |        |
| 05 59 65 00-0012 CLF 1/8" Diameter 316L Stainless Steel Chain, Cut Length.....           | 2,687.23 | 93.97  |
| 05 59 65 00-0013 CLF 3/16" Diameter 316L Stainless Steel Chain, Cut Length.....          | 3,306.91 | 112.80 |
| 05 59 65 00-0014 CLF 9/32" Diameter 316L Stainless Steel Chain, Cut Length.....          | 4,145.32 | 141.01 |
| 05 59 65 00-0015 CLF 5/16" Diameter 316L Stainless Steel Chain, Cut Length.....          | 5,600.20 | 188.05 |
| 05 59 65 00-0016 CLF 3/8" Diameter 316L Stainless Steel Chain, Cut Length.....           | 6,368.67 | 282.01 |
| 05 59 65 00-0017 CLF 1/2" Diameter 316L Stainless Steel Chain, Cut Length.....           | 9,609.93 | 470.06 |

**05 59 69 Metal Panels** (05 59)

|  |       |      |
|--|-------|------|
| <b>05 59 69 00-0001 Woven And Welded Wire Cloth</b> <small>(05 59 69)</small>                            |       |      |
| Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.          |       |      |
| <b>05 59 69 00-0002 Plain Steel Woven And Welded Wire Cloth Panels</b> <small>(05 59 69 00-0001)</small> |       |      |
| <b>05 59 69 00-0003 2" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>                         |       |      |
| 05 59 69 00-0004 SF 0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels .....    | 9.94  | 3.01 |
| <i>For Up To 2, Add</i>  |       |      |
|  | 2.79  |      |
| <i>For &gt;2 To 6, Add</i>   |       |      |
|  | 1.60  |      |
| <i>For &gt;15 To 40, Deduct</i>  |       |      |
|  | -0.30 |      |
| <i>For &gt;40, Deduct</i>  |       |      |
|  | -0.89 |      |
| <i>For Galvanized, Add</i>   |       |      |
|  | 2.60  |      |
| <i>For Aluminum, Add</i>   |       |      |
|  | 3.55  |      |
| <i>For 304 Stainless Steel, Add</i>  |       |      |
|  | 14.21 |      |
| <i>For 316 Stainless Steel, Add</i>  |       |      |
|  | 16.28 |      |
| 05 59 69 00-0005 SF 0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels .....   | 10.69 | 3.13 |
| <i>For Up To 2, Add</i>  |       |      |
|  | 2.98  |      |
| <i>For &gt;2 To 6, Add</i>   |       |      |
|  | 1.70  |      |
| <i>For &gt;15 To 40, Deduct</i>  |       |      |
|  | -0.33 |      |
| <i>For &gt;40, Deduct</i>  |       |      |
|  | -0.98 |      |
| <i>For Galvanized, Add</i>   |       |      |
|  | 2.86  |      |
| <i>For Aluminum, Add</i>   |       |      |
|  | 3.90  |      |
| <i>For 304 Stainless Steel, Add</i>  |       |      |
|  | 15.60 |      |
| <i>For 316 Stainless Steel, Add</i>  |       |      |
|  | 17.88 |      |
| 05 59 69 00-0006 SF 0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels .....   | 11.36 | 3.48 |
| <i>For Up To 2, Add</i>  |       |      |
|  | 3.20  |      |
| <i>For &gt;2 To 6, Add</i>   |       |      |
|  | 1.83  |      |
| <i>For &gt;15 To 40, Deduct</i>  |       |      |
|  | -0.34 |      |
| <i>For &gt;40, Deduct</i>  |       |      |
|  | -1.01 |      |
| <i>For Galvanized, Add</i>   |       |      |
|  | 2.96  |      |
| <i>For Aluminum, Add</i>   |       |      |
|  | 4.04  |      |
| <i>For 304 Stainless Steel, Add</i>  |       |      |
|  | 16.15 |      |
| <i>For 316 Stainless Steel, Add</i>  |       |      |
|  | 18.51 |      |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Specialties  | 05 59     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 59 69 00-0007 SF 0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels .....     | 11.98                     | 3.63                    |
| For Up To 2, Add   | 3.36                      |                         |
| For >2 To 6, Add   | 1.92                      |                         |
| For >15 To 40, Deduct  | -0.36                     |                         |
| For >40, Deduct  | -1.07                     |                         |
| For Galvanized, Add  | 3.15                      |                         |
| For Aluminum, Add  | 4.29                      |                         |
| For 304 Stainless Steel, Add   | 17.16                     |                         |
| For 316 Stainless Steel, Add   | 19.66                     |                         |
| 05 59 69 00-0008 SF 0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels .....     | 13.10                     | 4.06                    |
| For Up To 2, Add   | 3.70                      |                         |
| For >2 To 6, Add   | 2.12                      |                         |
| For >15 To 40, Deduct  | -0.38                     |                         |
| For >40, Deduct  | -1.15                     |                         |
| For Galvanized, Add  | 3.38                      |                         |
| For Aluminum, Add  | 4.61                      |                         |
| For 304 Stainless Steel, Add   | 18.43                     |                         |
| For 316 Stainless Steel, Add   | 21.12                     |                         |
| 05 59 69 00-0009 SF 0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels .....     | 15.05                     | 4.52                    |
| For Up To 2, Add   | 4.22                      |                         |
| For >2 To 6, Add   | 2.41                      |                         |
| For >15 To 40, Deduct  | -0.45                     |                         |
| For >40, Deduct  | -1.35                     |                         |
| For Galvanized, Add  | 3.97                      |                         |
| For Aluminum, Add  | 5.41                      |                         |
| For 304 Stainless Steel, Add   | 21.65                     |                         |
| For 316 Stainless Steel, Add   | 24.81                     |                         |
| 05 59 69 00-0010 SF 0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels .....     | 17.08                     | 4.98                    |
| For Up To 2, Add   | 4.74                      |                         |
| For >2 To 6, Add   | 2.70                      |                         |
| For >15 To 40, Deduct  | -0.52                     |                         |
| For >40, Deduct  | -1.57                     |                         |
| For Galvanized, Add  | 4.59                      |                         |
| For Aluminum, Add  | 6.26                      |                         |
| For 304 Stainless Steel, Add   | 25.06                     |                         |
| For 316 Stainless Steel, Add   | 28.71                     |                         |
| 05 59 69 00-0011 SF 0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels .....     | 19.55                     | 5.53                    |
| For Up To 2, Add   | 5.38                      |                         |
| For >2 To 6, Add   | 3.06                      |                         |
| For >15 To 40, Deduct  | -0.61                     |                         |
| For >40, Deduct  | -1.83                     |                         |
| For Galvanized, Add  | 5.36                      |                         |
| For Aluminum, Add  | 7.31                      |                         |
| For 304 Stainless Steel, Add   | 29.26                     |                         |
| For 316 Stainless Steel, Add   | 33.52                     |                         |
| <b>05 59 69 00-0012 1-3/4" Square Wire Spacing <small>(05 59 69 00-0002)</small></b>                       |                           |                         |
| 05 59 69 00-0013 SF 0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels .....  | 10.42                     | 3.19                    |
| For Up To 2, Add   | 2.93                      |                         |
| For >2 To 6, Add   | 1.68                      |                         |
| For >15 To 40, Deduct  | -0.31                     |                         |
| For >40, Deduct  | -0.93                     |                         |
| For Galvanized, Add  | 2.71                      |                         |
| For Aluminum, Add  | 3.70                      |                         |
| For 304 Stainless Steel, Add   | 14.81                     |                         |
| For 316 Stainless Steel, Add   | 16.97                     |                         |
| 05 59 69 00-0014 SF 0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels ..... | 11.47                     | 3.36                    |
| For Up To 2, Add   | 3.19                      |                         |
| For >2 To 6, Add   | 1.82                      |                         |
| For >15 To 40, Deduct  | -0.35                     |                         |
| For >40, Deduct  | -1.05                     |                         |
| For Galvanized, Add  | 3.07                      |                         |
| For Aluminum, Add  | 4.19                      |                         |
| For 304 Stainless Steel, Add   | 16.75                     |                         |
| For 316 Stainless Steel, Add   | 19.20                     |                         |
| 05 59 69 00-0015 SF 0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels ..... | 12.33                     | 3.77                    |
| For Up To 2, Add   | 3.47                      |                         |
| For >2 To 6, Add   | 1.99                      |                         |
| For >15 To 40, Deduct  | -0.36                     |                         |
| For >40, Deduct  | -1.09                     |                         |
| For Galvanized, Add  | 3.21                      |                         |
| For Aluminum, Add  | 4.37                      |                         |
| For 304 Stainless Steel, Add   | 17.50                     |                         |
| For 316 Stainless Steel, Add   | 20.05                     |                         |
| 05 59 69 00-0016 SF 0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels ..... | 12.88                     | 3.89                    |
| For Up To 2, Add   | 3.61                      |                         |
| For >2 To 6, Add   | 2.07                      |                         |
| For >15 To 40, Deduct  | -0.38                     |                         |
| For >40, Deduct  | -1.15                     |                         |
| For Galvanized, Add  | 3.38                      |                         |
| For Aluminum, Add  | 4.61                      |                         |
| For 304 Stainless Steel, Add   | 18.46                     |                         |
| For 316 Stainless Steel, Add   | 21.15                     |                         |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 59 69 00-0017        | SF  |     | 0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels ..... | 14.09                  | 4.36                 |
|                         |     |     | For Up To 2, Add   | 3.98                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.28                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.41                  |                      |
|                         |     |     | For >40, Deduct  | -1.24                  |                      |
|                         |     |     | For Galvanized, Add  | 3.64                   |                      |
|                         |     |     | For Aluminum, Add  | 4.96                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 19.85                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 22.74                  |                      |
| 05 59 69 00-0018        | SF  |     | 0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels ..... | 16.20                  | 4.88                 |
|                         |     |     | For Up To 2, Add   | 4.54                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.60                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.49                  |                      |
|                         |     |     | For >40, Deduct  | -1.46                  |                      |
|                         |     |     | For Galvanized, Add  | 4.27                   |                      |
|                         |     |     | For Aluminum, Add  | 5.82                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 23.28                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 26.68                  |                      |
| 05 59 69 00-0019        | SF  |     | 0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels ..... | 18.35                  | 5.35                 |
|                         |     |     | For Up To 2, Add   | 5.10                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.90                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.56                  |                      |
|                         |     |     | For >40, Deduct  | -1.68                  |                      |
|                         |     |     | For Galvanized, Add  | 4.94                   |                      |
|                         |     |     | For Aluminum, Add  | 6.73                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 26.93                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 30.86                  |                      |
| 05 59 69 00-0020        | SF  |     | 0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels ..... | 21.05                  | 5.94                 |
|                         |     |     | For Up To 2, Add   | 5.80                   |                      |
|                         |     |     | For >2 To 6, Add   | 3.29                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.66                  |                      |
|                         |     |     | For >40, Deduct  | -1.97                  |                      |
|                         |     |     | For Galvanized, Add  | 5.77                   |                      |
|                         |     |     | For Aluminum, Add  | 7.87                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 31.49                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 36.08                  |                      |
| <b>05 59 69 00-0021</b> |     |     | <b>1-1/2" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>                    |                        |                      |
| 05 59 69 00-0022        | SF  |     | 0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels .....  | 11.54                  | 3.55                 |
|                         |     |     | For Up To 2, Add   | 3.25                   |                      |
|                         |     |     | For >2 To 6, Add   | 1.86                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.34                  |                      |
|                         |     |     | For >40, Deduct  | -1.02                  |                      |
|                         |     |     | For Galvanized, Add  | 3.01                   |                      |
|                         |     |     | For Aluminum, Add  | 4.10                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 16.39                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 18.78                  |                      |
| 05 59 69 00-0023        | SF  |     | 0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels ..... | 12.69                  | 3.73                 |
|                         |     |     | For Up To 2, Add   | 3.53                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.01                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.39                  |                      |
|                         |     |     | For >40, Deduct  | -1.16                  |                      |
|                         |     |     | For Galvanized, Add  | 3.40                   |                      |
|                         |     |     | For Aluminum, Add  | 4.63                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 18.53                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 21.23                  |                      |
| 05 59 69 00-0024        | SF  |     | 0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels ..... | 13.49                  | 4.13                 |
|                         |     |     | For Up To 2, Add   | 3.80                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.18                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.40                  |                      |
|                         |     |     | For >40, Deduct  | -1.20                  |                      |
|                         |     |     | For Galvanized, Add  | 3.51                   |                      |
|                         |     |     | For Aluminum, Add  | 4.79                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 19.15                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 21.95                  |                      |
| 05 59 69 00-0025        | SF  |     | 0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels ..... | 14.22                  | 4.30                 |
|                         |     |     | For Up To 2, Add   | 3.99                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.28                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.42                  |                      |
|                         |     |     | For >40, Deduct  | -1.27                  |                      |
|                         |     |     | For Galvanized, Add  | 3.74                   |                      |
|                         |     |     | For Aluminum, Add  | 5.09                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 20.38                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 23.35                  |                      |
| 05 59 69 00-0026        | SF  |     | 0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels .....  | 15.50                  | 4.80                 |
|                         |     |     | For Up To 2, Add   | 4.38                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.51                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.45                  |                      |
|                         |     |     | For >40, Deduct  | -1.36                  |                      |
|                         |     |     | For Galvanized, Add  | 4.00                   |                      |
|                         |     |     | For Aluminum, Add  | 5.45                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 21.82                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 25.00                  |                      |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Specialties  | 05 59     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 59 69 00-0027 SF 0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels .....  | 17.70                     | 5.33                    |
| For Up To 2, Add   | 4.96                      |                         |
| For >2 To 6, Add   | 2.83                      |                         |
| For >15 To 40, Deduct  | -0.53                     |                         |
| For >40, Deduct  | -1.59                     |                         |
| For Galvanized, Add  | 4.67                      |                         |
| For Aluminum, Add  | 6.37                      |                         |
| For 304 Stainless Steel, Add   | 25.46                     |                         |
| For 316 Stainless Steel, Add   | 29.18                     |                         |
| 05 59 69 00-0028 SF 0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels ..... | 20.07                     | 5.85                    |
| For Up To 2, Add   | 5.57                      |                         |
| For >2 To 6, Add   | 3.18                      |                         |
| For >15 To 40, Deduct  | -0.61                     |                         |
| For >40, Deduct  | -1.84                     |                         |
| For Galvanized, Add  | 5.40                      |                         |
| For Aluminum, Add  | 7.36                      |                         |
| For 304 Stainless Steel, Add   | 29.45                     |                         |
| For 316 Stainless Steel, Add   | 33.74                     |                         |
| 05 59 69 00-0029 SF 0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels ..... | 22.96                     | 6.49                    |
| For Up To 2, Add   | 6.32                      |                         |
| For >2 To 6, Add   | 3.59                      |                         |
| For >15 To 40, Deduct  | -0.72                     |                         |
| For >40, Deduct  | -2.15                     |                         |
| For Galvanized, Add  | 6.30                      |                         |
| For Aluminum, Add  | 8.59                      |                         |
| For 304 Stainless Steel, Add   | 34.37                     |                         |
| For 316 Stainless Steel, Add   | 39.38                     |                         |
| <b>05 59 69 00-0030 1-1/4" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>                       |                           |                         |
| 05 59 69 00-0031 SF 0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels ..... | 11.80                     | 3.83                    |
| For Up To 2, Add   | 3.38                      |                         |
| For >2 To 6, Add   | 1.95                      |                         |
| For >15 To 40, Deduct  | -0.33                     |                         |
| For >40, Deduct  | -1.00                     |                         |
| For Galvanized, Add  | 2.94                      |                         |
| For Aluminum, Add  | 4.01                      |                         |
| For 304 Stainless Steel, Add   | 16.06                     |                         |
| For 316 Stainless Steel, Add   | 18.40                     |                         |
| 05 59 69 00-0032 SF 0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels .....  | 12.77                     | 4.02                    |
| For Up To 2, Add   | 3.63                      |                         |
| For >2 To 6, Add   | 2.08                      |                         |
| For >15 To 40, Deduct  | -0.37                     |                         |
| For >40, Deduct  | -1.11                     |                         |
| For Galvanized, Add  | 3.26                      |                         |
| For Aluminum, Add  | 4.45                      |                         |
| For 304 Stainless Steel, Add   | 17.78                     |                         |
| For 316 Stainless Steel, Add   | 20.38                     |                         |
| 05 59 69 00-0033 SF 0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels ..... | 13.87                     | 4.19                    |
| For Up To 2, Add   | 3.89                      |                         |
| For >2 To 6, Add   | 2.22                      |                         |
| For >15 To 40, Deduct  | -0.41                     |                         |
| For >40, Deduct  | -1.24                     |                         |
| For Galvanized, Add  | 3.65                      |                         |
| For Aluminum, Add  | 4.97                      |                         |
| For 304 Stainless Steel, Add   | 19.90                     |                         |
| For 316 Stainless Steel, Add   | 22.80                     |                         |
| 05 59 69 00-0034 SF 0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels ..... | 14.30                     | 4.26                    |
| For Up To 2, Add   | 4.00                      |                         |
| For >2 To 6, Add   | 2.28                      |                         |
| For >15 To 40, Deduct  | -0.43                     |                         |
| For >40, Deduct  | -1.29                     |                         |
| For Galvanized, Add  | 3.79                      |                         |
| For Aluminum, Add  | 5.17                      |                         |
| For 304 Stainless Steel, Add   | 20.69                     |                         |
| For 316 Stainless Steel, Add   | 23.71                     |                         |
| 05 59 69 00-0035 SF 0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels .....  | 15.50                     | 4.81                    |
| For Up To 2, Add   | 4.38                      |                         |
| For >2 To 6, Add   | 2.51                      |                         |
| For >15 To 40, Deduct  | -0.45                     |                         |
| For >40, Deduct  | -1.36                     |                         |
| For Galvanized, Add  | 4.00                      |                         |
| For Aluminum, Add  | 5.45                      |                         |
| For 304 Stainless Steel, Add   | 21.79                     |                         |
| For 316 Stainless Steel, Add   | 24.97                     |                         |
| 05 59 69 00-0036 SF 0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels ..... | 17.46                     | 5.42                    |
| For Up To 2, Add   | 4.94                      |                         |
| For >2 To 6, Add   | 2.83                      |                         |
| For >15 To 40, Deduct  | -0.51                     |                         |
| For >40, Deduct  | -1.54                     |                         |
| For Galvanized, Add  | 4.51                      |                         |
| For Aluminum, Add  | 6.14                      |                         |
| For 304 Stainless Steel, Add   | 24.58                     |                         |
| For 316 Stainless Steel, Add   | 28.16                     |                         |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 59 69 00-0037        | SF  |     | 0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels ..... | 19.87                  | 5.98                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 5.57                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 3.18                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.60                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.79                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 5.24                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 7.14                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 28.56                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 32.73                  |                      |
| 05 59 69 00-0038        | SF  |     | 0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels .....  | 22.42                  | 6.53                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 6.23                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 3.55                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.69                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -2.06                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 6.03                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 8.23                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 32.90                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 37.70                  |                      |
| 05 59 69 00-0039        | SF  |     | 0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels ..... | 25.69                  | 7.25                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 7.07                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 4.02                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.80                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -2.40                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 7.05                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 9.61                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 38.45                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 44.06                  |                      |
| <b>05 59 69 00-0040</b> |     |     | <b>1" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>                        |                        |                      |
| 05 59 69 00-0041        | SF  |     | 0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels .....     | 13.47                  | 4.49                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 3.89                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 2.24                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.37                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.12                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 3.30                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 4.49                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 17.98                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 20.60                  |                      |
| 05 59 69 00-0042        | SF  |     | 0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels .....      | 14.45                  | 4.67                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 4.14                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 2.38                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.41                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.23                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 3.62                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 4.93                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 19.73                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 22.61                  |                      |
| 05 59 69 00-0043        | SF  |     | 0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels .....     | 15.05                  | 4.88                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 4.31                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 2.48                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.43                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.28                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 3.76                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 5.12                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 20.50                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 23.49                  |                      |
| 05 59 69 00-0044        | SF  |     | 0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels .....     | 16.14                  | 4.95                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 4.55                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 2.60                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.48                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.43                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 4.20                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 5.72                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 22.90                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 26.24                  |                      |
| 05 59 69 00-0045        | SF  |     | 0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels .....     | 17.95                  | 5.57                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 5.08                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 2.91                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.53                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.58                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 4.63                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 6.31                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 25.25                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 28.93                  |                      |
| 05 59 69 00-0046        | SF  |     | 0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels .....     | 20.15                  | 6.24                 |
|                         |     |     | <i>For Up To 2, Add</i>  | 5.70                   |                      |
|                         |     |     | <i>For &gt;2 To 6, Add</i>   | 3.26                   |                      |
|                         |     |     | <i>For &gt;15 To 40, Deduct</i>  | -0.59                  |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -1.77                  |                      |
|                         |     |     | <i>For Galvanized, Add</i>   | 5.20                   |                      |
|                         |     |     | <i>For Aluminum, Add</i>   | 7.09                   |                      |
|                         |     |     | <i>For 304 Stainless Steel, Add</i>  | 28.37                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>  | 32.51                  |                      |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Specialties  | 05 59     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 59 69 00-0047 SF 0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels .....   | 23.05                     | 6.93                    |
| For Up To 2, Add   | 6.46                      |                         |
| For >2 To 6, Add   | 3.69                      |                         |
| For >15 To 40, Deduct  | -0.69                     |                         |
| For >40, Deduct  | -2.07                     |                         |
| For Galvanized, Add  | 6.08                      |                         |
| For Aluminum, Add  | 8.29                      |                         |
| For 304 Stainless Steel, Add   | 33.14                     |                         |
| For 316 Stainless Steel, Add   | 37.98                     |                         |
| 05 59 69 00-0048 SF 0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels .....   | 25.95                     | 7.57                    |
| For Up To 2, Add   | 7.21                      |                         |
| For >2 To 6, Add   | 4.11                      |                         |
| For >15 To 40, Deduct  | -0.79                     |                         |
| For >40, Deduct  | -2.38                     |                         |
| For Galvanized, Add  | 6.98                      |                         |
| For Aluminum, Add  | 9.52                      |                         |
| For 304 Stainless Steel, Add   | 38.09                     |                         |
| For 316 Stainless Steel, Add   | 43.64                     |                         |
| 05 59 69 00-0049 SF 0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels .....   | 29.64                     | 8.37                    |
| For Up To 2, Add   | 8.16                      |                         |
| For >2 To 6, Add   | 4.64                      |                         |
| For >15 To 40, Deduct  | -0.92                     |                         |
| For >40, Deduct  | -2.77                     |                         |
| For Galvanized, Add  | 8.13                      |                         |
| For Aluminum, Add  | 11.09                     |                         |
| For 304 Stainless Steel, Add   | 44.35                     |                         |
| For 316 Stainless Steel, Add   | 50.82                     |                         |
| <b>05 59 69 00-0050 3/4" Square Wire Spacing</b> (05 59 69 00-0002)                                      |                           |                         |
| 05 59 69 00-0051 SF 0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels ..... | 13.63                     | 4.48                    |
| For Up To 2, Add   | 3.92                      |                         |
| For >2 To 6, Add   | 2.26                      |                         |
| For >15 To 40, Deduct  | -0.38                     |                         |
| For >40, Deduct  | -1.15                     |                         |
| For Galvanized, Add  | 3.37                      |                         |
| For Aluminum, Add  | 4.60                      |                         |
| For 304 Stainless Steel, Add   | 18.41                     |                         |
| For 316 Stainless Steel, Add   | 21.09                     |                         |
| 05 59 69 00-0052 SF 0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels .....  | 15.23                     | 5.02                    |
| For Up To 2, Add   | 4.38                      |                         |
| For >2 To 6, Add   | 2.53                      |                         |
| For >15 To 40, Deduct  | -0.43                     |                         |
| For >40, Deduct  | -1.28                     |                         |
| For Galvanized, Add  | 3.76                      |                         |
| For Aluminum, Add  | 5.12                      |                         |
| For 304 Stainless Steel, Add   | 20.50                     |                         |
| For 316 Stainless Steel, Add   | 23.49                     |                         |
| 05 59 69 00-0053 SF 0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels ..... | 16.84                     | 5.67                    |
| For Up To 2, Add   | 4.88                      |                         |
| For >2 To 6, Add   | 2.82                      |                         |
| For >15 To 40, Deduct  | -0.46                     |                         |
| For >40, Deduct  | -1.39                     |                         |
| For Galvanized, Add  | 4.09                      |                         |
| For Aluminum, Add  | 5.57                      |                         |
| For 304 Stainless Steel, Add   | 22.30                     |                         |
| For 316 Stainless Steel, Add   | 25.55                     |                         |
| 05 59 69 00-0054 SF 0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels ..... | 18.23                     | 6.04                    |
| For Up To 2, Add   | 5.26                      |                         |
| For >2 To 6, Add   | 3.03                      |                         |
| For >15 To 40, Deduct  | -0.51                     |                         |
| For >40, Deduct  | -1.52                     |                         |
| For Galvanized, Add  | 4.47                      |                         |
| For Aluminum, Add  | 6.10                      |                         |
| For 304 Stainless Steel, Add   | 24.38                     |                         |
| For 316 Stainless Steel, Add   | 27.94                     |                         |
| 05 59 69 00-0055 SF 0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels ..... | 21.09                     | 6.80                    |
| For Up To 2, Add   | 6.03                      |                         |
| For >2 To 6, Add   | 3.47                      |                         |
| For >15 To 40, Deduct  | -0.60                     |                         |
| For >40, Deduct  | -1.80                     |                         |
| For Galvanized, Add  | 5.29                      |                         |
| For Aluminum, Add  | 7.21                      |                         |
| For 304 Stainless Steel, Add   | 28.85                     |                         |
| For 316 Stainless Steel, Add   | 33.06                     |                         |
| 05 59 69 00-0056 SF 0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels .....  | 24.28                     | 7.61                    |
| For Up To 2, Add   | 6.88                      |                         |
| For >2 To 6, Add   | 3.95                      |                         |
| For >15 To 40, Deduct  | -0.71                     |                         |
| For >40, Deduct  | -2.12                     |                         |
| For Galvanized, Add  | 6.22                      |                         |
| For Aluminum, Add  | 8.48                      |                         |
| For 304 Stainless Steel, Add   | 33.94                     |                         |
| For 316 Stainless Steel, Add   | 38.89                     |                         |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 59 69 00-0057        | SF  |     | 0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels ..... | 27.66                  | 8.40                 |
|                         |     |     | For Up To 2, Add   | 7.77                   |                      |
|                         |     |     | For >2 To 6, Add   | 4.45                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.82                  |                      |
|                         |     |     | For >40, Deduct  | -2.47                  |                      |
|                         |     |     | For Galvanized, Add  | 7.24                   |                      |
|                         |     |     | For Aluminum, Add  | 9.87                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 39.48                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 45.24                  |                      |
| 05 59 69 00-0058        | SF  |     | 0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels ..... | 31.02                  | 9.14                 |
|                         |     |     | For Up To 2, Add   | 8.64                   |                      |
|                         |     |     | For >2 To 6, Add   | 4.93                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.94                  |                      |
|                         |     |     | For >40, Deduct  | -2.82                  |                      |
|                         |     |     | For Galvanized, Add  | 8.29                   |                      |
|                         |     |     | For Aluminum, Add  | 11.30                  |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 45.19                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 51.78                  |                      |
| 05 59 69 00-0059        | SF  |     | 0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels ..... | 35.39                  | 10.11                |
|                         |     |     | For Up To 2, Add   | 9.77                   |                      |
|                         |     |     | For >2 To 6, Add   | 5.56                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -1.10                  |                      |
|                         |     |     | For >40, Deduct  | -3.29                  |                      |
|                         |     |     | For Galvanized, Add  | 9.64                   |                      |
|                         |     |     | For Aluminum, Add  | 13.15                  |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 52.61                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 60.28                  |                      |
| <b>05 59 69 00-0060</b> |     |     | <b>1/2" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>                    |                        |                      |
| 05 59 69 00-0061        | SF  |     | 0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels ..... | 14.24                  | 4.79                 |
|                         |     |     | For Up To 2, Add   | 4.13                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.38                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.39                  |                      |
|                         |     |     | For >40, Deduct  | -1.18                  |                      |
|                         |     |     | For Galvanized, Add  | 3.45                   |                      |
|                         |     |     | For Aluminum, Add  | 4.71                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 18.84                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 21.59                  |                      |
| 05 59 69 00-0062        | SF  |     | 0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels .....  | 16.65                  | 5.82                 |
|                         |     |     | For Up To 2, Add   | 4.89                   |                      |
|                         |     |     | For >2 To 6, Add   | 2.83                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.44                  |                      |
|                         |     |     | For >40, Deduct  | -1.33                  |                      |
|                         |     |     | For Galvanized, Add  | 3.90                   |                      |
|                         |     |     | For Aluminum, Add  | 5.32                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 21.29                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 24.39                  |                      |
| 05 59 69 00-0063        | SF  |     | 0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels ..... | 20.13                  | 6.89                 |
|                         |     |     | For Up To 2, Add   | 5.86                   |                      |
|                         |     |     | For >2 To 6, Add   | 3.39                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.55                  |                      |
|                         |     |     | For >40, Deduct  | -1.64                  |                      |
|                         |     |     | For Galvanized, Add  | 4.81                   |                      |
|                         |     |     | For Aluminum, Add  | 6.56                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 26.26                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 30.09                  |                      |
| 05 59 69 00-0064        | SF  |     | 0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels ..... | 23.23                  | 7.73                 |
|                         |     |     | For Up To 2, Add   | 6.71                   |                      |
|                         |     |     | For >2 To 6, Add   | 3.87                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.65                  |                      |
|                         |     |     | For >40, Deduct  | -1.94                  |                      |
|                         |     |     | For Galvanized, Add  | 5.68                   |                      |
|                         |     |     | For Aluminum, Add  | 7.75                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 31.01                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 35.53                  |                      |
| 05 59 69 00-0065        | SF  |     | 0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels ..... | 26.69                  | 8.63                 |
|                         |     |     | For Up To 2, Add   | 7.64                   |                      |
|                         |     |     | For >2 To 6, Add   | 4.39                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.76                  |                      |
|                         |     |     | For >40, Deduct  | -2.28                  |                      |
|                         |     |     | For Galvanized, Add  | 6.68                   |                      |
|                         |     |     | For Aluminum, Add  | 9.11                   |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 36.46                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 41.77                  |                      |
| 05 59 69 00-0066        | SF  |     | 0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels ..... | 30.62                  | 9.61                 |
|                         |     |     | For Up To 2, Add   | 8.69                   |                      |
|                         |     |     | For >2 To 6, Add   | 4.99                   |                      |
|                         |     |     | For >15 To 40, Deduct  | -0.89                  |                      |
|                         |     |     | For >40, Deduct  | -2.67                  |                      |
|                         |     |     | For Galvanized, Add  | 7.83                   |                      |
|                         |     |     | For Aluminum, Add  | 10.68                  |                      |
|                         |     |     | For 304 Stainless Steel, Add   | 42.72                  |                      |
|                         |     |     | For 316 Stainless Steel, Add   | 48.95                  |                      |



|                    |           |           |
|--------------------|-----------|-----------|
| <b>Metals</b>      | <b>05</b> | <b>05</b> |
| Metal Fabrications | 05 50     |           |
| Metal Specialties  | 05 59     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 59 69 00-0067 SF 0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels .....      | 34.69                     | 10.57                   |
| For Up To 2, Add  | 9.76                      |                         |
| For >2 To 6, Add  | 5.58                      |                         |
| For >15 To 40, Deduct   | -1.03                     |                         |
| For >40, Deduct   | -3.09                     |                         |
| For Galvanized, Add   | 9.06                      |                         |
| For Aluminum, Add   | 12.36                     |                         |
| For 304 Stainless Steel, Add  | 49.44                     |                         |
| For 316 Stainless Steel, Add  | 56.65                     |                         |
| 05 59 69 00-0068 SF 0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels .....      | 38.78                     | 11.46                   |
| For Up To 2, Add  | 10.81                     |                         |
| For >2 To 6, Add  | 6.17                      |                         |
| For >15 To 40, Deduct   | -1.18                     |                         |
| For >40, Deduct   | -3.53                     |                         |
| For Galvanized, Add   | 10.34                     |                         |
| For Aluminum, Add   | 14.10                     |                         |
| For 304 Stainless Steel, Add  | 56.40                     |                         |
| For 316 Stainless Steel, Add  | 64.63                     |                         |
| 05 59 69 00-0069 SF 0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels .....      | 40.31                     | 12.61                   |
| For Up To 2, Add  | 11.42                     |                         |
| For >2 To 6, Add  | 6.55                      |                         |
| For >15 To 40, Deduct   | -1.18                     |                         |
| For >40, Deduct   | -3.53                     |                         |
| For Galvanized, Add   | 10.34                     |                         |
| For Aluminum, Add   | 14.10                     |                         |
| For 304 Stainless Steel, Add  | 56.40                     |                         |
| For 316 Stainless Steel, Add  | 64.63                     |                         |
| <b>05 59 69 00-0070 Expanded Metal Panels</b> <small>(05 59 69)</small>                                       |                           |                         |
| Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.               |                           |                         |
| <b>05 59 69 00-0071 Plain Flattened Expanded Metal Diamond Shape Panels</b> <small>(05 59 69 00-0070)</small> |                           |                         |
| Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.               |                           |                         |
| 05 59 69 00-0072 SF 1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF .....                                   | 11.21                     | 4.13                    |
| For Galvanized, Add   | 2.51                      |                         |
| For Aluminum, Add   | 3.42                      |                         |
| For 304 Stainless Steel, Add  | 13.68                     |                         |
| For 316 Stainless Steel, Add  | 15.68                     |                         |
| 05 59 69 00-0073 SF 1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF .....                                   | 14.09                     | 4.52                    |
| For Galvanized, Add   | 3.55                      |                         |
| For Aluminum, Add   | 4.84                      |                         |
| For 304 Stainless Steel, Add  | 19.34                     |                         |
| For 316 Stainless Steel, Add  | 22.17                     |                         |
| 05 59 69 00-0074 SF 1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF .....                                   | 8.08                      | 3.19                    |
| For Galvanized, Add   | 1.69                      |                         |
| For Aluminum, Add   | 2.30                      |                         |
| For 304 Stainless Steel, Add  | 9.19                      |                         |
| For 316 Stainless Steel, Add  | 10.53                     |                         |
| 05 59 69 00-0075 SF 1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF .....                                   | 8.82                      | 3.48                    |
| For Galvanized, Add   | 1.84                      |                         |
| For Aluminum, Add   | 2.51                      |                         |
| For 304 Stainless Steel, Add  | 10.06                     |                         |
| For 316 Stainless Steel, Add  | 11.52                     |                         |
| 05 59 69 00-0076 SF 1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF .....                                   | 9.99                      | 4.13                    |
| For Galvanized, Add   | 1.97                      |                         |
| For Aluminum, Add   | 2.69                      |                         |
| For 304 Stainless Steel, Add  | 10.75                     |                         |
| For 316 Stainless Steel, Add  | 12.32                     |                         |
| 05 59 69 00-0077 SF 1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF .....                                    | 12.78                     | 5.33                    |
| For Galvanized, Add   | 2.50                      |                         |
| For Aluminum, Add   | 3.41                      |                         |
| For 304 Stainless Steel, Add  | 13.66                     |                         |
| For 316 Stainless Steel, Add  | 15.65                     |                         |
| 05 59 69 00-0078 SF 3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF .....                                   | 7.05                      | 3.13                    |
| For Galvanized, Add   | 1.26                      |                         |
| For Aluminum, Add   | 1.72                      |                         |
| For 304 Stainless Steel, Add  | 6.86                      |                         |
| For 316 Stainless Steel, Add  | 7.87                      |                         |
| 05 59 69 00-0079 SF 3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF .....                                   | 7.89                      | 3.36                    |
| For Galvanized, Add   | 1.50                      |                         |
| For Aluminum, Add   | 2.04                      |                         |
| For 304 Stainless Steel, Add  | 8.16                      |                         |
| For 316 Stainless Steel, Add  | 9.35                      |                         |
| 05 59 69 00-0080 SF 3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF .....                                   | 9.02                      | 3.77                    |
| For Galvanized, Add   | 1.75                      |                         |
| For Aluminum, Add   | 2.39                      |                         |
| For 304 Stainless Steel, Add  | 9.55                      |                         |
| For 316 Stainless Steel, Add  | 10.95                     |                         |
| 05 59 69 00-0081 SF 3/4" #9-F Plain Expanded Metal Panel, 1.50 LB/SF .....                                    | 14.21                     | 6.24                    |
| For Galvanized, Add   | 2.59                      |                         |
| For Aluminum, Add   | 3.53                      |                         |
| For 304 Stainless Steel, Add  | 14.11                     |                         |
| For 316 Stainless Steel, Add  | 16.17                     |                         |



|    |                                 |
|----|---------------------------------|
| 05 | <b>05 Metals</b>                |
|    | <b>05 50 Metal Fabrications</b> |
|    | <b>05 59 Metal Specialties</b>  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 05 59 69 00-0082 SF 1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF .....     | 7.88                      | 3.83                    |
| For Galvanized, Add   | 1.22                      |                         |
| For Aluminum, Add   | 1.66                      |                         |
| For 304 Stainless Steel, Add  | 6.65                      |                         |
| For 316 Stainless Steel, Add  | 7.62                      |                         |
| 05 59 69 00-0083 SF 1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF ..... | 6.80                      | 3.01                    |
| For Galvanized, Add   | 1.22                      |                         |
| For Aluminum, Add   | 1.67                      |                         |
| For 304 Stainless Steel, Add  | 6.67                      |                         |
| For 316 Stainless Steel, Add  | 7.65                      |                         |
| 05 59 69 00-0084 SF 1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF ..... | 7.84                      | 3.55                    |
| For Galvanized, Add   | 1.38                      |                         |
| For Aluminum, Add   | 1.88                      |                         |
| For 304 Stainless Steel, Add  | 7.51                      |                         |
| For 316 Stainless Steel, Add  | 8.61                      |                         |
| 05 59 69 00-0085 SF 1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF .....  | 12.17                     | 4.79                    |
| For Galvanized, Add   | 2.54                      |                         |
| For Aluminum, Add   | 3.47                      |                         |
| For 304 Stainless Steel, Add  | 13.87                     |                         |
| For 316 Stainless Steel, Add  | 15.90                     |                         |

**05 70 Decorative Metal** <sup>(05)</sup>

Note: Includes anchors and related accessories.

**05 71 Decorative Metal Stairs** <sup>(05 70)</sup>

**05 71 13 Fabricated Metal Spiral Stairs** <sup>(05 71)</sup>

Note: Includes factory prime.

05 71 13 00-0001 Spiral Stairs, Stock Units <sup>(05 71 13)</sup>  
Note: Includes factory prime.

05 71 13 00-0002 Steel Tread <sup>(05 71 13 00-0001)</sup>

|  |        |       |
|--|--------|-------|
| 05 71 13 00-0003 VLF 3'-6" Diameter, Spiral Steel Stair With Rails ..... | 474.81 | 54.94 |
| For Galvanized, Add  | 255.45 |       |
| 05 71 13 00-0004 VLF 4' Diameter, Spiral Steel Stair With Rails .....    | 540.97 | 60.44 |
| For Galvanized, Add  | 294.07 |       |
| 05 71 13 00-0005 VLF 4'-6" Diameter, Spiral Steel Stair With Rails ..... | 598.63 | 65.93 |
| For Galvanized, Add  | 326.74 |       |
| 05 71 13 00-0006 VLF 5' Diameter, Spiral Steel Stair With Rails .....    | 641.45 | 71.42 |
| For Galvanized, Add  | 349.02 |       |

**05 73 Decorative Metal Railings** <sup>(05 70)</sup>

Note: Factory primed. Includes brackets.

**05 73 23 Decorative Metal Railings** <sup>(05 73)</sup>

05 73 23 00-0001 Railings; Vertical Square Bars At 6" <sup>(05 73 23)</sup>

Note: Centers with shaped top rails (round, square, rectangular, diamond, triangular or other shape).

|   |        |       |
|---|--------|-------|
| 05 73 23 00-0002 LF Steel Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High .....           | 72.71  | 12.09 |
| For Rake Or Angle Railings, Add   | 10.35  |       |
| For Curved Railings, Add  | 18.59  |       |
| For 4" On Center Standards, Add   | 1.80   |       |
| For 4-1/2" On Center Standards, Add   | 1.44   |       |
| For 5" On Center Standards, Add   | 0.96   |       |
| For 5-1/2" On Center Standards, Add   | 0.48   |       |
| For Each Field Bending Of Rails, Add  | 14.68  |       |
| For Galvanized, Add   | 3.36   |       |
| 05 73 23 00-0003 LF Aluminum Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High .....        | 177.53 | 16.48 |
| For Rake Or Angle Railings, Add   | 19.35  |       |
| For Curved Railings, Add  | 62.01  |       |
| For 4" On Center Standards, Add   | 8.29   |       |
| For 4-1/2" On Center Standards, Add   | 6.63   |       |
| For 5" On Center Standards, Add   | 4.42   |       |
| For 5-1/2" On Center Standards, Add   | 2.21   |       |
| For Each Field Bending Of Rails, Add  | 19.25  |       |
| 05 73 23 00-0004 LF Bronze Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High .....          | 256.89 | 27.47 |
| For Rake Or Angle Railings, Add   | 27.98  |       |
| For Curved Railings, Add  | 89.79  |       |
| For 4" On Center Standards, Add   | 12.01  |       |
| For 4-1/2" On Center Standards, Add   | 9.61   |       |
| For 5" On Center Standards, Add   | 6.41   |       |
| For 5-1/2" On Center Standards, Add   | 3.20   |       |
| For Each Field Bending Of Rails, Add  | 26.68  |       |
| 05 73 23 00-0005 LF Stainless Steel Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High ..... | 295.32 | 21.97 |
| For Rake Or Angle Railings, Add   | 29.67  |       |
| For Curved Railings, Add  | 110.24 |       |
| For 4" On Center Standards, Add   | 15.46  |       |
| For 4-1/2" On Center Standards, Add   | 12.36  |       |
| For 5" On Center Standards, Add   | 8.24   |       |
| For 5-1/2" On Center Standards, Add   | 4.12   |       |
| For Each Field Bending Of Rails, Add  | 24.81  |       |



|                           |           |           |
|---------------------------|-----------|-----------|
| <b>Metals</b>             | <b>05</b> | <b>05</b> |
| Decorative Metal          | 05 70     |           |
| Decorative Metal Railings | 05 73     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 73 23 00-0006 LF Black Wrought Iron Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High ..... | 248.79                    | 33.51                   |
| For Rake Or Angle Railings, Add  | 24.06                     |                         |
| For Curved Railings, Add   | 95.48                     |                         |
| For 4" On Center Standards, Add  | 13.63                     |                         |
| For 4-1/2" On Center Standards, Add  | 10.91                     |                         |
| For 5" On Center Standards, Add  | 7.27                      |                         |
| For 5-1/2" On Center Standards, Add  | 3.64                      |                         |
| For Each Field Bending Of Rails, Add   | 19.26                     |                         |
| <b>05 73 23 00-0007 Laminated Metal Or Wood Handrails With Metal Supports (05 73 23)</b>                                     |                           |                         |
| 05 73 23 00-0008 LF 2-1/2" Laminated Metal Or Wood Handrail Round/Oval Shape With Metal Supports .....                       | 172.11                    | 5.50                    |
| For Rake Or Angle Railings, Add  | 13.59                     |                         |
| For Curved Railings, Add   | 74.64                     |                         |
| For 4" On Center Standards, Add  | 11.44                     |                         |
| For 4-1/2" On Center Standards, Add  | 9.15                      |                         |
| For 5" On Center Standards, Add  | 6.10                      |                         |
| For 5-1/2" On Center Standards, Add  | 3.05                      |                         |
| For Each Field Bending Of Rails, Add   | 7.39                      |                         |
| <b>05 73 23 00-0009 Plain Handrails (05 73 23)</b>   |                           |                         |
| 05 73 23 00-0010 LF 2" Brass Handrail .....  | 56.77                     | 11.52                   |
| 05 73 23 00-0011 EA 90 Degree Angle For 2" Brass Handrail .....  | 120.75                    | 43.42                   |
| 05 73 23 00-0012 EA End Cap For 2" Brass Handrail .....  | 54.60                     | 21.77                   |
| 05 73 23 00-0013 EA Brass Bracket And Joint For 2" Brass Handrail .....  | 91.16                     | 43.42                   |
| 05 73 23 00-0014 LF 2" Stainless Steel Handrail .....  | 71.00                     | 14.39                   |
| <b>05 73 23 00-0015 Restoration Of Existing Metal Handrail And Railing (05 73 23)</b>  |                           |                         |
| Note: Task includes rust removal by grinding, cleaning, surface prep and one coat of protective primer.                      |                           |                         |
| 05 73 23 00-0016 LF Refinish Metal Handrail .....  | 10.54                     |                         |
| 05 73 23 00-0017 LF Refinish Wrought Iron Balustrade .....   | 10.50                     |                         |
| <b>05 73 23 00-0018 Remove And Reinstall Ornamental Railing (05 73 23)</b>   |                           |                         |
| 05 73 23 00-0019 LF Removal And Reinstallation Of Ornamental Handrail And Pickets .....                                      | 101.09                    |                         |
| <b>05 75 Decorative Formed Metal (05 70)</b>   |                           |                         |
| <b>05 75 00 00-0001 Metal Sheets, Installed On Walls (05 75)</b>   |                           |                         |
| Note: Includes field fabrication (bending) where noted. See CSI section 05 54 00 00-0000 for metal floor plates.             |                           |                         |
| <b>05 75 00 00-0002 Copper Sheets, Installed On Walls (05 75 00 00-0001)</b>   |                           |                         |
| Note: Includes field fabrication.  |                           |                         |
| 05 75 00 00-0003 SF 0.0162" (12 Ounce) Thick Copper Sheet, Installed On Walls .....  | 28.75                     | 2.48                    |
| For >16 To 200, Deduct   | -1.62                     |                         |
| For >200 To 500, Deduct  | -3.25                     |                         |
| For >500, Deduct   | -4.69                     |                         |
| 05 75 00 00-0004 SF 0.0215" (16 Ounce) Thick Copper Sheet, Installed On Walls .....  | 35.89                     | 2.77                    |
| For >16 To 200, Deduct   | -2.00                     |                         |
| For >200 To 500, Deduct  | -4.00                     |                         |
| For >500, Deduct   | -5.80                     |                         |
| 05 75 00 00-0005 SF 0.0242" (18 Ounce) Thick Copper Sheet, Installed On Walls .....  | 39.29                     | 2.98                    |
| For >16 To 200, Deduct   | -2.19                     |                         |
| For >200 To 500, Deduct  | -4.38                     |                         |
| For >500, Deduct   | -6.34                     |                         |
| 05 75 00 00-0006 SF 0.027" (20 Ounce) Thick Copper Sheet, Installed On Walls .....   | 42.43                     | 3.13                    |
| For >16 To 200, Deduct   | -2.36                     |                         |
| For >200 To 500, Deduct  | -4.71                     |                         |
| For >500, Deduct   | -6.84                     |                         |
| 05 75 00 00-0007 SF 0.0323" (24 Ounce) Thick Copper Sheet, Installed On Walls .....  | 48.39                     | 3.27                    |
| For >16 To 200, Deduct   | -2.67                     |                         |
| For >200 To 500, Deduct  | -5.33                     |                         |
| For >500, Deduct   | -7.75                     |                         |
| 05 75 00 00-0008 SF 0.0431" (32 Ounce) Thick Copper Sheet, Installed On Walls .....  | 61.28                     | 3.43                    |
| For >16 To 200, Deduct   | -3.32                     |                         |
| For >200 To 500, Deduct  | -6.64                     |                         |
| For >500, Deduct   | -9.71                     |                         |
| 05 75 00 00-0009 SF 0.052" (40 Ounce) Thick Copper Sheet, Installed On Walls .....   | 71.81                     | 3.59                    |
| For >16 To 200, Deduct   | -3.86                     |                         |
| For >200 To 500, Deduct  | -7.72                     |                         |
| For >500, Deduct   | -11.31                    |                         |
| 05 75 00 00-0010 SF 0.0646" (48 Ounce) Thick Copper Sheet, Installed On Walls .....  | 86.93                     | 3.88                    |
| For >16 To 200, Deduct   | -4.64                     |                         |
| For >200 To 500, Deduct  | -9.28                     |                         |
| For >500, Deduct   | -13.62                    |                         |
| 05 75 00 00-0011 SF 0.08" Thick Copper Sheet, Installed On Walls .....   | 106.77                    | 4.18                    |
| For >16 To 200, Deduct   | -5.65                     |                         |
| For >200 To 500, Deduct  | -11.30                    |                         |
| For >500, Deduct   | -16.64                    |                         |

**05 Metals****05 70 Decorative Metal****05 75 Decorative Formed Metal**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 05 75 00 00-0012        | SF  |     | 0.125" Thick Copper Sheet, Installed On Walls .....                                  | 156.77                 | 4.48                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -8.17                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -16.35                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -24.19                 |                      |
| <b>05 75 00 00-0013</b> |     |     | <b>Stainless Steel Sheets, Installed On Walls</b> <small>(05 75 00 00-0001)</small>  |                        |                      |
|                         |     |     | Note: Includes field fabrication.  |                        |                      |
| 05 75 00 00-0014        | SF  |     | 0.026" Thick (24 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls .....  | 14.29                  | 2.44                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -0.90                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -1.79                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.51                  |                      |
| 05 75 00 00-0015        | SF  |     | 0.0312" Thick (22 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls ..... | 16.13                  | 2.63                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.00                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.01                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.81                  |                      |
| 05 75 00 00-0016        | SF  |     | 0.0375" Thick (20 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls ..... | 17.52                  | 2.76                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.17                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -3.04                  |                      |
| 05 75 00 00-0017        | SF  |     | 0.050" Thick (18 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls .....  | 20.40                  | 2.89                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.24                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.47                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -3.49                  |                      |
| 05 75 00 00-0018        | SF  |     | 0.0625" Thick (16 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls ..... | 23.21                  | 3.02                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.39                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.78                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -3.94                  |                      |
| 05 75 00 00-0019        | SF  |     | 0.078" Thick (14 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls .....  | 26.73                  | 3.16                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.57                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -3.15                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -4.48                  |                      |
| 05 75 00 00-0020        | SF  |     | 0.125" Thick (11 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls .....  | 38.16                  | 3.68                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -2.18                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -4.37                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -6.28                  |                      |
| 05 75 00 00-0021        | SF  |     | 3/16" Thick (7 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls .....    | 51.23                  | 3.91                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -2.85                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -5.71                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -8.27                  |                      |
| 05 75 00 00-0022        | SF  |     | 1/4" Thick (3 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls .....     | 69.92                  | 4.73                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -3.85                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -7.70                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -11.20                 |                      |
| 05 75 00 00-0023        | SF  |     | 3/8" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls .....               | 115.90                 | 5.08                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -6.18                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -12.35                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -18.15                 |                      |
| 05 75 00 00-0024        | SF  |     | 1/2" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls .....               | 148.10                 | 5.91                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -7.85                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -15.70                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -23.10                 |                      |
| <b>05 75 00 00-0025</b> |     |     | <b>Aluminum Sheets, Installed On Walls</b> <small>(05 75 00 00-0001)</small>         |                        |                      |
|                         |     |     | Note: Includes field fabrication.  |                        |                      |
| 05 75 00 00-0026        | SF  |     | 0.016" Thick (26 Gauge) Aluminum Sheet, Installed On Walls .....                     | 10.77                  | 2.48                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -0.73                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -1.45                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -1.99                  |                      |
| 05 75 00 00-0027        | SF  |     | 0.020" Thick (24 Gauge) Aluminum Sheet, Installed On Walls .....                     | 12.18                  | 2.77                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -0.82                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -1.63                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.24                  |                      |
| 05 75 00 00-0028        | SF  |     | 0.025" Thick (22 Gauge) Aluminum Sheet, Installed On Walls .....                     | 13.53                  | 2.98                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -0.90                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -1.80                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.48                  |                      |
| 05 75 00 00-0029        | SF  |     | 0.032" Thick (20 Gauge) Aluminum Sheet, Installed On Walls .....                     | 14.88                  | 3.13                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -0.98                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -1.96                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.70                  |                      |
| 05 75 00 00-0030        | SF  |     | 0.040" Thick (18 Gauge) Aluminum Sheet, Installed On Walls .....                     | 16.22                  | 3.27                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.06                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.12                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -2.93                  |                      |
| 05 75 00 00-0031        | SF  |     | 0.050" Thick (16 Gauge) Aluminum Sheet, Installed On Walls .....                     | 17.68                  | 3.43                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.14                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.28                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -3.17                  |                      |
| 05 75 00 00-0032        | SF  |     | 0.064" Thick (14 Gauge) Aluminum Sheet, Installed On Walls .....                     | 19.46                  | 3.59                 |
|                         |     |     | <i>For &gt;16 To 200, Deduct</i>   | -1.24                  |                      |
|                         |     |     | <i>For &gt;200 To 500, Deduct</i>  | -2.48                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -3.46                  |                      |



|                         |           |           |
|-------------------------|-----------|-----------|
| <b>Metals</b>           | <b>05</b> | <b>05</b> |
| Decorative Metal        | 05 70     |           |
| Decorative Formed Metal | 05 75     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 05 75 00 00-0033 SF 0.090" Thick (11 Gauge) Aluminum Sheet, Installed On Walls.....                | 23.08                     | 4.18                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.47                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.94                     |                         |
| <i>For &gt;500, Deduct</i>   | -4.09                     |                         |
| <b>05 75 00 00-0034 Galvanized Steel Sheets, Installed On Walls (05 75 00 00-0001)</b>             |                           |                         |
| Note: Includes field fabrication.  |                           |                         |
| 05 75 00 00-0035 SF 0.0217" (26 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 10.14                     | 2.48                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.69                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.39                     |                         |
| <i>For &gt;500, Deduct</i>   | -1.89                     |                         |
| 05 75 00 00-0036 SF 0.0276" (24 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 11.25                     | 2.77                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.77                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.54                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.10                     |                         |
| 05 75 00 00-0037 SF 0.0336" (22 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 11.99                     | 2.98                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.82                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.65                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.25                     |                         |
| 05 75 00 00-0038 SF 0.0396" (20 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 12.71                     | 3.13                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.87                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.74                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.38                     |                         |
| 05 75 00 00-0039 SF 0.0516" (18 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 13.64                     | 3.27                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.93                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.86                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.54                     |                         |
| 05 75 00 00-0040 SF 0.0635" (16 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 14.64                     | 3.43                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.99                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.98                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.71                     |                         |
| 05 75 00 00-0041 SF 0.0785" (14 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 16.21                     | 3.59                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.08                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.16                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.97                     |                         |
| 05 75 00 00-0042 SF 0.1084" (12 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 18.48                     | 3.88                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.22                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.43                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.35                     |                         |
| 05 75 00 00-0043 SF 0.1382" (10 Gauge) Thick Galvanized Steel Sheet, Installed On Walls.....       | 21.30                     | 4.48                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.40                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.80                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.87                     |                         |
| <b>05 75 00 00-0044 Galvanized Zinc-Plated Steel Sheets, Installed On Walls (05 75 00 00-0001)</b> |                           |                         |
| Note: Includes field fabrication.  |                           |                         |
| 05 75 00 00-0045 SF 0.013" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls.....       | 13.40                     | 2.35                    |
| <i>For &gt;16 To 200, Deduct</i>   | -0.91                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -1.81                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.48                     |                         |
| 05 75 00 00-0046 SF 0.016" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls.....       | 15.47                     | 2.67                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.04                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.08                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.85                     |                         |
| 05 75 00 00-0047 SF 0.019" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls.....       | 17.49                     | 2.96                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.17                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.34                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.22                     |                         |
| 05 75 00 00-0048 SF 0.024" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls.....       | 19.30                     | 3.20                    |
| <i>For &gt;16 To 200, Deduct</i>   | -1.29                     |                         |
| <i>For &gt;200 To 500, Deduct</i>  | -2.57                     |                         |
| <i>For &gt;500, Deduct</i>   | -3.54                     |                         |

**END OF SECTION 05**

|           |           |                         |
|-----------|-----------|-------------------------|
| <b>05</b> | <b>05</b> | <b>Metals</b>           |
|           | 05 70     | Decorative Metal        |
|           | 05 75     | Decorative Formed Metal |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
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| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
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## 07 Thermal And Moisture Protection

### 07 01 Operation and Maintenance of Thermal and Moisture Protection <sup>(07)</sup>

#### 07 01 50 Maintenance of Membrane Roofing <sup>(07 01)</sup>

##### 07 01 50 19 Preparation for Re-Roofing <sup>(07 01 50)</sup>

##### 07 01 50 19-0001 Preparation For Re-Roofing <sup>(07 01 50 19)</sup>

|                  |    |  |       |
|------------------|----|--|-------|
| 07 01 50 19-0002 | SQ | Removal Of Pea Gravel Ballast From Roof, Vacuum And Disposal ..... | 36.27 |
| 07 01 50 19-0003 | SQ | Removal Of Gravel Ballast From Roof, Vacuum And Disposal .....     | 64.00 |

##### 07 01 50 81 Roof Replacement <sup>(07 01 50)</sup>

##### 07 01 50 81-0001 Roof Repair <sup>(07 01 50 81)</sup>

Note: Less than 100 SF areas. Excludes mobilization of crew for small quantity of roof work. See CSI section 07 05 13 00-0001 for mobilization of crew for small quantity of roof work.

|                  |    |   |       |
|------------------|----|---|-------|
| 07 01 50 81-0002 | SF | Up To 10 SF Roof Repair, Built-Up Roofing .....   | 24.15 |
| 07 01 50 81-0003 | SF | >10 To 25 SF Roof Repair, Built-Up Roofing .....  | 21.65 |
| 07 01 50 81-0004 | SF | >25 To 50 SF Roof Repair, Built-Up Roofing .....  | 19.71 |
| 07 01 50 81-0005 | SF | >50 To 100 SF Roof Repair, Built-Up Roofing ..... | 18.34 |
| 07 01 50 81-0006 | SF | Up To 10 SF Roof Repair, Membrane Roofing .....   | 27.33 |
| 07 01 50 81-0007 | SF | >10 To 25 SF Roof Repair, Membrane Roofing .....  | 24.84 |
| 07 01 50 81-0008 | SF | >25 To 50 SF Roof Repair, Membrane Roofing .....  | 22.90 |
| 07 01 50 81-0009 | SF | >50 To 100 SF Roof Repair, Membrane Roofing ..... | 21.52 |
| 07 01 50 81-0010 | SF | Up To 10 SF Roof Repair, Shingle Roofing .....    | 20.97 |
| 07 01 50 81-0011 | SF | >10 To 25 SF Roof Repair, Shingle Roofing .....   | 18.79 |
| 07 01 50 81-0012 | SF | >25 To 50 SF Roof Repair, Shingle Roofing .....   | 17.17 |
| 07 01 50 81-0013 | SF | >50 To 100 SF Roof Repair, Shingle Roofing .....  | 16.11 |
| 07 01 50 81-0014 | LF | Heat Weld Roofing Seams For Repair .....          | 7.51  |

##### 07 01 50 81-0015 Emergency Roof Patch <sup>(07 01 50 81)</sup>

Note: 4 Hour response time.

|                  |    |  |        |
|------------------|----|--|--------|
| 07 01 50 81-0016 | EA | Granule Emergency Roof Patch Cover 16 SF ..... | 98.87  |
| 07 01 50 81-0017 | EA | Mobilize For Emergency Roof Patching .....     | 703.44 |

##### 07 01 50 81-0018 Adhesives <sup>(07 01 50 81)</sup>

Note: For repair of seams.

##### 07 01 50 81-0019 Mastic Sealer <sup>(07 01 50 81-0018)</sup>

##### 07 01 50 81-0020 Applied At Joints Only <sup>(07 01 50 81-0019)</sup>

|                  |    |   |      |
|------------------|----|---|------|
| 07 01 50 81-0021 | LF | Mastic Sealer, 1/4" Bead At Joint ..... | 4.64 |
|------------------|----|---|------|

2.00

##### 07 01 50 91 Roofing Restoration <sup>(07 01 50)</sup>

##### 07 01 50 91-0001 Pressure Wash Membrane Roofing <sup>(07 01 50 91)</sup>

|                  |    |   |              |
|------------------|----|---|--------------|
| 07 01 50 91-0002 | SF | Up To 2,500 PSI, Pressure Wash Membrane Roofing ..... | 0.15         |
|                  |    | <i>For Up To 100, Add</i>                             | <i>0.11</i>  |
|                  |    | <i>For &gt;100 To 250, Add</i>                        | <i>0.05</i>  |
|                  |    | <i>For &gt;250 To 500, Add</i>                        | <i>0.02</i>  |
|                  |    | <i>For &gt;5,000 To 10,000, Deduct</i>                | <i>-0.01</i> |
|                  |    | <i>For &gt;10,000 To 15,000, Deduct</i>               | <i>-0.02</i> |
|                  |    | <i>For &gt;15,000 To 30,000, Deduct</i>               | <i>-0.02</i> |
|                  |    | <i>For &gt;30,000, Deduct</i>                         | <i>-0.03</i> |

## 07 05 Common Work Results for Thermal and Moisture Protection <sup>(07)</sup>

### 07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work <sup>(07 05)</sup>

#### 07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work <sup>(07 05 13)</sup>

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

|                  |    |  |          |
|------------------|----|--|----------|
| 07 05 13 00-0002 | EA | Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work ..... | 1,409.14 |
| 07 05 13 00-0003 | EA | >1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work ..... | 1,054.33 |
| 07 05 13 00-0004 | EA | >2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work ..... | 704.57   |
| 07 05 13 00-0005 | EA | >3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work ..... | 351.44   |

## 07 10 Dampproofing and Waterproofing <sup>(07)</sup>

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in

**07 Thermal And Moisture Protection****07 10 Dampproofing and Waterproofing**

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

the absence of hydrostatic pressure.

**07 11 Dampproofing** (07 10)**07 11 13 Bituminous Dampproofing** (07 11)

|                  |   |        |  |
|------------------|---|--------|--|
| 07 11 13 00-0001 | Fibrous Asphalt Dampproofing, Brush, Roller Or Spray (07 11 13)   |        |  |
| 07 11 13 00-0002 | CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray  | 180.23 |  |
| 07 11 13 00-0003 | CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing | 274.02 |  |
| 07 11 13 00-0004 | Fibrous Asphalt Dampproofing, Troweled On (07 11 13)              |        |  |
| 07 11 13 00-0005 | CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On  | 312.61 |  |
| 07 11 13 00-0006 | CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing | 489.23 |  |
| 07 11 13 00-0007 | Asphaltic Paint Dampproofing (07 11 13)                           |        |  |
| 07 11 13 00-0008 | CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On              | 143.61 |  |
| 07 11 13 00-0009 | CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing             | 266.10 |  |
| 07 11 19         | <b>Sheet Dampproofing</b> (07 11)                                 |        |  |
| 07 11 19 00-0001 | Neoprene (07 11 19)   |        |  |
| 07 11 19 00-0002 | SF 1/16" Patch Neoprene Roof (5 To 20 SF)                         | 37.58  |  |

**07 13 Sheet Waterproofing** (07 10)**07 13 13 Bituminous Sheet Waterproofing** (07 13)

|                  |   |        |        |
|------------------|---|--------|--------|
| 07 13 13 00-0001 | 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped (07 13 13) |        |        |
| 07 13 13 00-0002 | CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped | 328.89 | 113.15 |
|                  | <i>For 30 LB Felt, Add</i>  | 76.93  |        |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -33.95 |        |
| 07 13 13 00-0003 | CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped | 416.01 | 127.30 |
|                  | <i>For 30 LB Felt, Add</i>  | 121.05 |        |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -38.19 |        |
| 07 13 13 00-0004 | CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped | 503.13 | 141.44 |
|                  | <i>For 30 LB Felt, Add</i>  | 165.18 |        |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -42.43 |        |
| 07 13 13 00-0005 | CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped | 590.25 | 155.59 |
|                  | <i>For 30 LB Felt, Add</i>  | 209.30 |        |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -46.68 |        |
| 07 13 13 00-0006 | CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped | 677.37 | 169.74 |
|                  | <i>For 30 LB Felt, Add</i>  | 253.43 |        |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -50.92 |        |
| 07 13 13 00-0007 | Asphalt Coated Protective Board (07 13 13)                                      |        |        |
| 07 13 13 00-0008 | CSF 1/8" Asphalt Coated Protective Board  | 280.63 | 112.90 |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -37.65 |        |
| 07 13 13 00-0009 | CSF 1/4" Asphalt Coated Protective Board  | 372.50 | 117.24 |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -39.08 |        |
| 07 13 13 00-0010 | CSF 3/8" Asphalt Coated Protective Board  | 483.20 | 122.17 |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -40.71 |        |
| 07 13 13 00-0011 | CSF 1/2" Asphalt Coated Protective Board  | 539.67 | 127.09 |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -42.37 |        |
| 07 13 53         | <b>Elastomeric Sheet Waterproofing</b> (07 13)                                  |        |        |
| 07 13 53 00-0001 | Rubberized Membrane Sheet (07 13 53)  |        |        |
| 07 13 53 00-0002 | SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface                  | 7.79   | 1.17   |
|                  | <i>For Floor Surfaces, Deduct</i>   | -1.15  |        |
| 07 13 53 00-0003 | Ethylene Propylene Diene Monomer (EPDM) (07 13 53)                              |        |        |
| 07 13 53 00-0004 | CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane                     | 488.19 | 164.13 |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -49.23 |        |
| 07 13 53 00-0005 | CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane                     | 562.03 | 164.13 |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -49.23 |        |
| 07 13 53 00-0006 | Butyl Sheet Waterproofing (07 13 53)  |        |        |
| 07 13 53 00-0007 | CSF 1/32" Butyl Sheet Waterproofing   | 101.49 | 41.03  |
|                  | <i>For Joint Taping, Add</i>  | 14.53  |        |
|                  | <i>For Each Additional Ply, Add</i>   | 75.16  |        |
|                  | <i>For Application To Horizontal Surfaces, Deduct</i>                           | -6.17  |        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST          | DEMOLITION<br>UNIT COST |
|---|------------------------------------|-------------------------|
| 07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>   | 120.70<br>15.49<br>88.60<br>-6.17  | 41.03                   |
| <b>07 13 53 00-0009 Butyl With Nylon</b> <small>(07 13 53)</small>  |                                    |                         |
| 07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>  | 112.47<br>15.08<br>82.84<br>-6.17  | 41.03                   |
| 07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>  | 124.82<br>15.70<br>91.49<br>-6.17  | 41.03                   |
| <b>07 13 53 00-0012 Neoprene Sheet Waterproofing</b> <small>(07 13 53)</small>  |                                    |                         |
| 07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>  | 175.65<br>18.24<br>127.07<br>-6.17 | 41.03                   |
| 07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>  | 257.42<br>22.33<br>184.31<br>-6.17 | 41.03                   |
| <b>07 13 53 00-0015 Neoprene With Nylon</b> <small>(07 13 53)</small>   |                                    |                         |
| 07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>                                       | 184.18<br>18.67<br>133.04<br>-6.17 | 41.03                   |
| 07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>                                       | 271.05<br>23.01<br>193.85<br>-6.17 | 41.03                   |
| <b>07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene)</b> <small>(07 13 53)</small>  |                                    |                         |
| 07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>  | 41.54<br>9.96<br>32.51<br>-5.14    | 15.49                   |
| 07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>  | 42.58<br>10.02<br>33.24<br>-5.14   | 15.49                   |
| 07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>   | 69.19<br>11.35<br>51.86<br>-5.14   | 15.49                   |
| 07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite.....<br>Note: Includes seam tape, liquid mastic, anchors and termination bar.<br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i> | 104.37<br>76.87<br>-5.72           | 15.49                   |
| <b>07 13 53 00-0023 Plastic Vapor Barrier (PVC)</b> <small>(07 13 53)</small>   |                                    |                         |
| 07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>   | 48.30<br>10.30<br>37.24<br>-5.14   | 17.15                   |
| 07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>   | 59.79<br>11.18<br>45.41<br>-5.34   | 17.78                   |
| 07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....<br><i>For Joint Taping, Add</i><br><i>For Each Additional Ply, Add</i><br><i>For Application To Horizontal Surfaces, Deduct</i>   | 75.04<br>12.22<br>56.21<br>-5.52   | 18.41                   |
| <b>07 13 53 00-0027 Vinyl Plastic Vapor Barrier</b> <small>(07 13 53)</small>   |                                    |                         |
| 07 13 53 00-0028 CSF 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....  | 47.99                              | 15.87                   |

**07 14 Fluid-Applied Waterproofing** (07 10)

**07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing** (07 14)

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)



**07 Thermal And Moisture Protection****07 10 Dampproofing and Waterproofing****07 14 Fluid-Applied Waterproofing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....  | 2.46                      |                         |
| Note: Includes primer.  |                           |                         |
| For Application To Horizontal Surfaces, Deduct  | -0.22                     |                         |
| For Reinforcing Fabric, Add   | 0.56                      |                         |
| 07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....   | 2.90                      |                         |
| Note: Includes primer.  |                           |                         |
| For Application To Horizontal Surfaces, Deduct  | -0.23                     |                         |
| For Reinforcing Fabric, Add   | 0.56                      |                         |
| <b>07 14 16 Cold Fluid-Applied Waterproofing (07 14)</b>  |                           |                         |
| <b>07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)</b>  |                           |                         |
| 07 14 16 00-0002 SF 60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....   | 4.13                      |                         |
| For Application To Horizontal Surfaces, Deduct  | -0.50                     |                         |
| 07 14 16 00-0003 SF 90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....   | 4.72                      |                         |
| For Application To Horizontal Surfaces, Deduct  | -0.52                     |                         |
| 07 14 16 00-0004 SF 120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....  | 5.34                      |                         |
| For Application To Horizontal Surfaces, Deduct  | -0.55                     |                         |
| <b>07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)</b>   |                           |                         |
| 07 14 16 00-0006 SF 15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer.....   | 2.81                      |                         |
| <b>07 14 16 00-0007 Copolymer Compound (07 14 16)</b>   |                           |                         |
| 07 14 16 00-0008 SF 32 Mil, Fluid Elastomeric Copolymer Compound For Slabs.....   | 4.47                      |                         |
| <b>07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)</b>   |                           |                         |
| 07 14 16 00-0010 CSF 1/8" Fiberglass Reinforced, Fluid Applied Neoprene .....   | 541.61                    |                         |
| For Application To Horizontal Surfaces, Deduct  | -59.79                    |                         |
| 07 14 16 00-0011 CSF 50 Mil, 4 Coats, Fluid Applied Neoprene.....   | 1,050.46                  |                         |
| For Application To Horizontal Surfaces, Deduct  | -117.30                   |                         |
| 07 14 16 00-0012 CSF 90 Mil, 4 Coats, Fluid Applied Neoprene.....   | 1,709.35                  |                         |
| For Application To Horizontal Surfaces, Deduct  | -175.86                   |                         |
| <b>07 16 Cementitious and Reactive Waterproofing (07 10)</b>  |                           |                         |
| <b>07 16 13 Polymer Modified Cement Waterproofing (07 16)</b>   |                           |                         |
| 07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....  | 4.87                      |                         |
| Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.              |                           |                         |
| <b>07 16 16 Crystalline Waterproofing (07 16)</b>   |                           |                         |
| 07 16 16 00-0001 SF Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....  | 6.21                      |                         |
| <b>07 16 19 Metal Oxide Waterproofing (07 16)</b>   |                           |                         |
| <b>07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)</b>   |                           |                         |
| Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat. |                           |                         |
| 07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....   | 492.60                    |                         |
| For Application To Horizontal Surfaces, Deduct  | -61.44                    |                         |
| <b>07 17 Bentonite Waterproofing (07 10)</b>  |                           |                         |
| <b>07 17 13 Bentonite Panel Waterproofing (07 17)</b>   |                           |                         |
| 07 17 13 00-0001 CSF 3/16" Bentonite Waterproofing Panels.....  | 467.64                    | 134.71                  |
| For Application To Horizontal Surfaces, Deduct  | -40.42                    |                         |
| 07 17 13 00-0002 CSF 1/4" Bentonite Waterproofing Panels .....  | 430.12                    | 142.33                  |
| For Application To Horizontal Surfaces, Deduct  | -43.75                    |                         |
| 07 17 13 00-0003 CSF 5/8" Bentonite Waterproofing Panels .....  | 586.17                    | 148.43                  |
| For Application To Horizontal Surfaces, Deduct  | -44.52                    |                         |
| 07 17 13 00-0004 CSF 3/8" Granular Bentonite, Troweled.....   | 473.26                    | 123.45                  |
| For Application To Horizontal Surfaces, Deduct  | -37.02                    |                         |
| <b>07 19 Water Repellents (07 10)</b>   |                           |                         |
| <b>07 19 13 Acrylic Sealer (07 19)</b>  |                           |                         |
| Note: Per coat.   |                           |                         |
| 07 19 13 00-0001 SF Spray On Concrete, Acrylic Sealer .....   | 2.58                      |                         |
| 07 19 13 00-0002 SF Spray On Concrete Block/Brick, Acrylic Sealer.....  | 3.06                      |                         |
| 07 19 13 00-0003 SF Spray On Stone, Acrylic Sealer .....  | 3.36                      |                         |



|  |  |           |
|--|--|-----------|
| <b>Thermal And Moisture Protection</b> |  | <b>07</b> |
| Thermal Protection                     |  | 07 20     |
| Water Repellents                       |  | 07 19     |

07

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**07 20 Thermal Protection** <sup>(07)</sup>

**07 21 Thermal Insulation** <sup>(07 20)</sup>

**07 21 13 Board Insulation** <sup>(07 21)</sup>

Note: Types are stock sizes, mastic applied.

**07 21 13 13 Foam Board Insulation** <sup>(07 21 13)</sup>

|                  |   |       |      |
|------------------|---|-------|------|
| 07 21 13 13-0001 | Cold Adhesive Applied Foam Board Insulation <sup>(07 21 13 13)</sup>  |       |      |
| 07 21 13 13-0002 | Cold Adhesive Applied, Foam Glass (Cellular Glass), Foam Board Insulation <sup>(07 21 13 13-0001)</sup>     |       |      |
| 07 21 13 13-0003 | SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied.....          | 4.23  | 0.44 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0004 | SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied .....     | 5.91  | 0.44 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0005 | SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied.....          | 7.03  | 0.45 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0006 | SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied .....     | 9.28  | 0.46 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.08 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0007 | Cold Adhesive Applied, Expanded Polystyrene, Foam Board Insulation <sup>(07 21 13 13-0001)</sup>            |       |      |
| 07 21 13 13-0008 | SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied..... | 1.87  | 0.43 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0009 | SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied..... | 1.95  | 0.43 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0010 | SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied..... | 2.22  | 0.43 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0011 | SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied .....  | 2.49  | 0.44 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0012 | SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied .....  | 3.58  | 0.45 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0013 | SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied.....  | 4.67  | 0.46 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.08 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0014 | SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied.....  | 5.76  | 0.47 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.08 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0015 | SF 5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied.....  | 6.85  | 0.48 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.08 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0016 | SF 6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied .....  | 7.95  | 0.49 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.08 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
| 07 21 13 13-0017 | Cold Adhesive Applied, Extruded Polystyrene, Foam Board Insulation <sup>(07 21 13 13-0001)</sup>            |       |      |
|                  | Note: 15 PSI compressive strength.  |       |      |
| 07 21 13 13-0018 | SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                | 2.14  | 0.43 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
|                  | <i>For 25 PSI Compressive Strength, Add</i>   | 0.23  |      |
|                  | <i>For 40 PSI Compressive Strength, Add</i>   | 0.54  |      |
|                  | <i>For 60 PSI Compressive Strength, Add</i>   | 0.86  |      |
|                  | <i>For 115 PSI Compressive Strength, Add</i>  | 3.72  |      |
| 07 21 13 13-0019 | SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                | 2.51  | 0.43 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
|                  | <i>For 25 PSI Compressive Strength, Add</i>   | 0.29  |      |
|                  | <i>For 40 PSI Compressive Strength, Add</i>   | 0.68  |      |
|                  | <i>For 60 PSI Compressive Strength, Add</i>   | 1.07  |      |
|                  | <i>For 115 PSI Compressive Strength, Add</i>  | 4.67  |      |
| 07 21 13 13-0020 | SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                | 2.81  | 0.43 |
|                  | <i>For Horizontal Surface Application, Deduct</i>   | -0.07 |      |
|                  | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05  |      |
|                  | <i>For 25 PSI Compressive Strength, Add</i>   | 0.33  |      |
|                  | <i>For 40 PSI Compressive Strength, Add</i>   | 0.79  |      |
|                  | <i>For 60 PSI Compressive Strength, Add</i>   | 1.25  |      |
|                  | <i>For 115 PSI Compressive Strength, Add</i>  | 5.44  |      |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 21 13 13-0021 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                         | 2.89                      | 0.44                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.07                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.35                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 0.82                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 1.29                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 5.62                      |                         |
| 07 21 13 13-0022 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                        | 4.36                      | 0.45                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.07                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.58                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 1.38                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 2.14                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 9.38                      |                         |
| 07 21 13 13-0023 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                        | 5.85                      | 0.46                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.08                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.81                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 1.93                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 2.99                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 13.16                     |                         |
| 07 21 13 13-0024 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....                        | 6.61                      | 0.47                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.08                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.93                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 2.22                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 3.42                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 15.06                     |                         |
| <b>07 21 13 13-0025 Mechanically Fastened Foam Board Insulation</b> <small>(07 21 13 13)</small>                                    |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| <b>07 21 13 13-0026 Mechanically Fastened, Foam Glass (Cellular Glass), Foam Board Insulation</b> <small>(07 21 13 13-0025)</small> |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 21 13 13-0027 SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....                 | 4.17                      | 0.44                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |
| 07 21 13 13-0028 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....             | 5.95                      | 0.44                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.26                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |
| 07 21 13 13-0029 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....                 | 7.09                      | 0.45                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.59                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.26                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.88                      |                         |
| 07 21 13 13-0030 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....             | 9.43                      | 0.46                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.14                      |                         |
| <b>07 21 13 13-0031 Mechanically Fastened, Expanded Polystyrene, Foam Board Insulation</b> <small>(07 21 13 13-0025)</small>        |                           |                         |



|  |  |           |
|--|--|-----------|
| <b>Thermal And Moisture Protection</b> |  | <b>07</b> |
| Thermal Protection                     |  | 07 20     |
| Thermal Insulation                     |  | 07 21     |

07

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 21 13 13-0032 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) ..... | 1.81                      | 0.43                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 3.84                      |                         |
| 07 21 13 13-0033 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) ..... | 1.89                      | 0.43                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 3.84                      |                         |
| 07 21 13 13-0034 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) ..... | 2.16                      | 0.43                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 3.84                      |                         |
| 07 21 13 13-0035 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) .....   | 2.43                      | 0.44                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 3.84                      |                         |
| 07 21 13 13-0036 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) .....   | 3.63                      | 0.45                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.59                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.26                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 3.88                      |                         |
| 07 21 13 13-0037 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) .....  | 4.82                      | 0.46                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.34                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.50                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 4.14                      |                         |
| 07 21 13 13-0038 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS) .....  | 6.05                      | 0.47                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.09                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                         | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                              | 2.53                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.91                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                        | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                             | 3.80                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 4.37                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 07 21 13 | 13-0039 | SF  | 5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....                            | 7.34                   | 0.48                 |
|          |         |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.10                  |                      |
|          |         |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.44                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                              | 1.43                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                                   | 2.76                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                     | 3.07                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                             | 7.96                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                                  | 4.15                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                                    | 4.60                   |                      |
| 07 21 13 | 13-0040 | SF  | 6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....                             | 8.71                   | 0.49                 |
|          |         |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.10                  |                      |
|          |         |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.03                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                              | 1.76                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                                   | 3.10                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                     | 3.32                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                             | 2.63                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                                  | 4.64                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                                    | 4.97                   |                      |
| 07 21 13 | 13-0041 |     | <b>Mechanically Fastened, Extruded Polystyrene, Foam Board Insulation</b> <small>(07 21 13 13-0025)</small> |                        |                      |
|          |         |     | Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.                                  |                        |                      |
| 07 21 13 | 13-0042 | SF  | 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened .....                  | 2.08                   | 0.43                 |
|          |         |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.09                  |                      |
|          |         |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|          |         |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.20                   |                      |
|          |         |     | <i>For 40 PSI Compressive Strength, Add</i>   | 0.46                   |                      |
|          |         |     | <i>For 60 PSI Compressive Strength, Add</i>   | 0.75                   |                      |
|          |         |     | <i>For 115 PSI Compressive Strength, Add</i>  | 3.22                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                              | 0.72                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                                   | 2.13                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                     | 2.56                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                             | 1.09                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                                  | 3.20                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                                    | 3.84                   |                      |
| 07 21 13 | 13-0043 | SF  | 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened .....                  | 2.45                   | 0.43                 |
|          |         |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.09                  |                      |
|          |         |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|          |         |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.25                   |                      |
|          |         |     | <i>For 40 PSI Compressive Strength, Add</i>   | 0.60                   |                      |
|          |         |     | <i>For 60 PSI Compressive Strength, Add</i>   | 0.97                   |                      |
|          |         |     | <i>For 115 PSI Compressive Strength, Add</i>  | 4.17                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                              | 0.72                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                                   | 2.13                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                     | 2.56                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                             | 1.09                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                                  | 3.20                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                                    | 3.84                   |                      |
| 07 21 13 | 13-0044 | SF  | 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened .....                  | 2.75                   | 0.43                 |
|          |         |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.09                  |                      |
|          |         |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|          |         |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.30                   |                      |
|          |         |     | <i>For 40 PSI Compressive Strength, Add</i>   | 0.72                   |                      |
|          |         |     | <i>For 60 PSI Compressive Strength, Add</i>   | 1.14                   |                      |
|          |         |     | <i>For 115 PSI Compressive Strength, Add</i>  | 4.94                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                              | 0.72                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                                   | 2.13                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                     | 2.56                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                             | 1.09                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                                  | 3.20                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                                    | 3.84                   |                      |
| 07 21 13 | 13-0045 | SF  | 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened .....                    | 2.83                   | 0.44                 |
|          |         |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.09                  |                      |
|          |         |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|          |         |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.31                   |                      |
|          |         |     | <i>For 40 PSI Compressive Strength, Add</i>   | 0.74                   |                      |
|          |         |     | <i>For 60 PSI Compressive Strength, Add</i>   | 1.18                   |                      |
|          |         |     | <i>For 115 PSI Compressive Strength, Add</i>  | 5.12                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                              | 0.72                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                                   | 2.13                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                     | 2.56                   |                      |
|          |         |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                             | 1.09                   |                      |
|          |         |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                                  | 3.20                   |                      |
|          |         |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                                    | 3.84                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 21 13 13-0046 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....            | 4.42                      | 0.45                    |
| For Horizontal Surface Application, Deduct  | -0.09                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.56                      |                         |
| For 40 PSI Compressive Strength, Add  | 1.33                      |                         |
| For 60 PSI Compressive Strength, Add  | 2.08                      |                         |
| For 115 PSI Compressive Strength, Add   | 9.11                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.62                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.01                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.90                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.20                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.59                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.34                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.26                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.88                      |                         |
| 07 21 13 13-0047 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....            | 6.00                      | 0.46                    |
| For Horizontal Surface Application, Deduct  | -0.09                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.81                      |                         |
| For 40 PSI Compressive Strength, Add  | 1.93                      |                         |
| For 60 PSI Compressive Strength, Add  | 2.99                      |                         |
| For 115 PSI Compressive Strength, Add   | 13.12                     |                         |
| For Mechanically Fastened To Concrete, Add  | 1.67                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.10                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.34                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.76                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.50                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.14                      |                         |
| 07 21 13 13-0048 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....            | 6.90                      | 0.47                    |
| For Horizontal Surface Application, Deduct  | -0.09                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.95                      |                         |
| For 40 PSI Compressive Strength, Add  | 2.26                      |                         |
| For 60 PSI Compressive Strength, Add  | 3.50                      |                         |
| For 115 PSI Compressive Strength, Add   | 15.41                     |                         |
| For Mechanically Fastened To Concrete, Add  | 1.71                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.09                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.53                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.91                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.80                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.37                      |                         |
| <b>07 21 13 16 Fibrous Board Insulation (07 21 13)</b>  |                           |                         |
| 07 21 13 16-0001 Cold Adhesive Applied Fibrous Board Insulation (07 21 13 16)   |                           |                         |
| 07 21 13 16-0002 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0001)      |                           |                         |
| 07 21 13 16-0003 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied..... | 2.71                      | 0.55                    |
| For Horizontal Surface Application, Deduct  | -0.09                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |
| 07 21 13 16-0004 SF 2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied..... | 3.99                      | 0.65                    |
| For Horizontal Surface Application, Deduct  | -0.11                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |
| 07 21 13 16-0005 SF 3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied..... | 5.27                      | 0.76                    |
| For Horizontal Surface Application, Deduct  | -0.13                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |
| <b>07 21 13 16-0006 Cold Adhesive Applied, Fiberglass, Fibrous Board Insulation (07 21 13 16-0001)</b>                  |                           |                         |
| 07 21 13 16-0007 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied.....                    | 4.87                      | 0.44                    |
| For Horizontal Surface Application, Deduct  | -0.07                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |
| 07 21 13 16-0008 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied.....                | 5.69                      | 0.44                    |
| For Horizontal Surface Application, Deduct  | -0.07                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |
| 07 21 13 16-0009 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied.....                    | 7.03                      | 0.45                    |
| For Horizontal Surface Application, Deduct  | -0.08                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |
| 07 21 13 16-0010 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied.....               | 8.11                      | 0.45                    |
| For Horizontal Surface Application, Deduct  | -0.08                     |                         |
| For Vapor Barrier, Integral With Insulation, Add  | 0.05                      |                         |
| For Factory Painted On One Surface Add  | 0.17                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 21 13 16-0011 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied .....                    | 9.18                      | 0.46                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.08                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>   | 0.17                      |                         |
| <b>07 21 13 16-0012 Mechanically Fastened Fibrous Board Insulation (07 21 13 16)</b>                                      |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| <b>07 21 13 16-0013 Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0012)</b> |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 21 13 16-0014 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened.....   | 2.51                      | 0.55                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>   | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |
| 07 21 13 16-0015 SF 2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened.....   | 3.88                      | 0.65                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.11                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>   | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.59                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.26                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.88                      |                         |
| 07 21 13 16-0016 SF 3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened.....   | 5.24                      | 0.76                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.13                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>   | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.14                      |                         |
| <b>07 21 13 16-0017 Mechanically Fastened, Fiberglass, Fibrous Board Insulation (07 21 13 16-0012)</b>                    |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 21 13 16-0018 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....                      | 4.81                      | 0.44                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>   | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |
| 07 21 13 16-0019 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....                  | 5.73                      | 0.44                    |
| <i>For Horizontal Surface Application, Deduct</i>   | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>   | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.26                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 21 13 16-0020 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....   | 7.08                      | 0.45                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.59                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.26                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.88                      |                         |
| 07 21 13 16-0021 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened .....   | 8.26                      | 0.45                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.34                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.50                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.71                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.06                      |                         |
| 07 21 13 16-0022 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....  | 9.33                      | 0.46                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.34                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.50                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |
| <b>07 21 13 19 Mineral Board Insulation (07 21 13)</b>   |                           |                         |
| 07 21 13 19-0001 Cold Adhesive Applied Mineral Board Insulation (07 21 13 19)  |                           |                         |
| 07 21 13 19-0002 Cold Adhesive Applied, High-Density Fiberboard, Mineral Board Insulation<br>(07 21 13 19-0001)  |                           |                         |
| 07 21 13 19-0003 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied .....   | 2.05                      | 0.49                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.08                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| 07 21 13 19-0004 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied .....   | 2.44                      | 0.52                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| 07 21 13 19-0005 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied .....   | 2.84                      | 0.55                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.09                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| 07 21 13 19-0006 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied .....   | 3.55                      | 0.60                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.10                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| 07 21 13 19-0007 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied .....   | 4.25                      | 0.65                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.11                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| 07 21 13 19-0008 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied .....   | 5.66                      | 0.76                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.13                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| 07 21 13 19-0009 Mechanically Fastened Mineral Board Insulation (07 21 13 19)<br>Note: Mechanically fastened to wood or steel.                                   |                           |                         |
| 07 21 13 19-0010 Mechanically Fastened, High-Density Fiberboard, Mineral Board Insulation<br>(07 21 13 19-0009)<br>Note: Mechanically fastened to wood or steel. |                           |                         |
| 07 21 13 19-0011 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....  | 1.85                      | 0.49                    |
| <i>For Horizontal Surface Application, Deduct</i>  | -0.08                     |                         |
| <i>For Vapor Barrier, Integral With Insulation, Add</i>  | 0.05                      |                         |
| <i>For Factory Painted On One Surface Add</i>  | 0.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.13                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |



**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 07 21 13 19-0012 | SF  |     | 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened..... | 2.24                   | 0.52                 |
|                  |     |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.09                  |                      |
|                  |     |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|                  |     |     | <i>For Factory Painted On One Surface Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                    | 0.72                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                         | 2.13                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                           | 2.56                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                   | 1.09                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                        | 3.20                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                          | 3.84                   |                      |
| 07 21 13 19-0013 | SF  |     | 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....     | 2.64                   | 0.55                 |
|                  |     |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.09                  |                      |
|                  |     |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|                  |     |     | <i>For Factory Painted On One Surface Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                    | 0.72                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                         | 2.13                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                           | 2.56                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                   | 1.09                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                        | 3.20                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                          | 3.84                   |                      |
| 07 21 13 19-0014 | SF  |     | 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened..... | 3.44                   | 0.60                 |
|                  |     |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.10                  |                      |
|                  |     |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|                  |     |     | <i>For Factory Painted On One Surface Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                    | 0.90                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                         | 2.20                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                           | 2.56                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                   | 1.34                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                        | 3.26                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                          | 3.84                   |                      |
| 07 21 13 19-0015 | SF  |     | 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....     | 4.14                   | 0.65                 |
|                  |     |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.11                  |                      |
|                  |     |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|                  |     |     | <i>For Factory Painted On One Surface Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                    | 0.90                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                         | 2.20                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                           | 2.59                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                   | 1.34                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                        | 3.26                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                          | 3.88                   |                      |
| 07 21 13 19-0016 | SF  |     | 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....     | 5.64                   | 0.76                 |
|                  |     |     | <i>For Horizontal Surface Application, Deduct</i>   | -0.13                  |                      |
|                  |     |     | <i>For Vapor Barrier, Integral With Insulation, Add</i>   | 0.05                   |                      |
|                  |     |     | <i>For Factory Painted On One Surface Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.10                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                    | 1.02                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                         | 2.34                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                           | 2.76                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                   | 1.53                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                        | 3.50                   |                      |
|                  |     |     | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                          | 4.14                   |                      |

**07 21 16 Blanket Insulation (07 21)**

Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.

**07 21 16 00-0001 Fiberglass Flexible Insulation (07 21 16)**

Note: Rolls or batts.

**07 21 16 00-0002 Kraft Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)**

|                  |    |  |   |       |      |
|------------------|----|--|---|-------|------|
| 07 21 16 00-0003 | SF |  | 3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation..... | 1.65  | 0.58 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.16 |      |
| 07 21 16 00-0004 | SF |  | 3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation..... | 1.76  | 0.58 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.18 |      |
| 07 21 16 00-0005 | SF |  | 3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation..... | 1.79  | 0.58 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.19 |      |
| 07 21 16 00-0006 | SF |  | 5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation..... | 2.28  | 0.58 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.28 |      |
| 07 21 16 00-0007 | SF |  | 6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation..... | 2.01  | 0.58 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.22 |      |
| 07 21 16 00-0008 | SF |  | 9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation..... | 2.69  | 0.72 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.33 |      |
| 07 21 16 00-0009 | SF |  | 12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation.....    | 3.07  | 0.72 |
|                  |    |  | <i>For &gt;1,600, Deduct</i>  | -0.37 |      |

**07 21 16 00-0010 Unfaced, Fiberglass Flexible Insulation (07 21 16 00-0001)**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 21 16 00-0011 SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation.....             | 1.59                      | 0.58                    |
| For >1,600, Deduct  | -0.15                     |                         |
| 07 21 16 00-0012 SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation.....             | 1.70                      | 0.58                    |
| For >1,600, Deduct  | -0.17                     |                         |
| 07 21 16 00-0013 SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation.....             | 2.15                      | 0.58                    |
| For >1,600, Deduct  | -0.26                     |                         |
| 07 21 16 00-0014 SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation.....             | 2.21                      | 0.58                    |
| For >1,600, Deduct  | -0.27                     |                         |
| 07 21 16 00-0015 SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation.....             | 1.96                      | 0.58                    |
| For >1,600, Deduct  | -0.21                     |                         |
| 07 21 16 00-0016 SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation.....             | 2.56                      | 0.72                    |
| For >1,600, Deduct  | -0.30                     |                         |
| 07 21 16 00-0017 SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation.....                | 2.98                      | 0.72                    |
| For >1,600, Deduct  | -0.35                     |                         |
| <b>07 21 16 00-0018 Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)</b>           |                           |                         |
| 07 21 16 00-0019 SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation .....         | 1.84                      | 0.58                    |
| For >1,600, Deduct  | -0.20                     |                         |
| 07 21 16 00-0020 SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation .....         | 2.01                      | 0.58                    |
| For >1,600, Deduct  | -0.23                     |                         |
| 07 21 16 00-0021 SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation .....         | 2.25                      | 0.58                    |
| For >1,600, Deduct  | -0.26                     |                         |
| 07 21 16 00-0022 SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation .....        | 3.13                      | 0.72                    |
| For >1,600, Deduct  | -0.39                     |                         |
| 07 21 16 00-0023 SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation .....            | 3.39                      | 0.72                    |
| For >1,600, Deduct  | -0.43                     |                         |
| <b>07 21 16 00-0024 Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)</b>    |                           |                         |
| 07 21 16 00-0025 SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation .....  | 1.69                      | 0.58                    |
| For >1,600, Deduct  | -0.17                     |                         |
| 07 21 16 00-0026 SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation .....  | 1.79                      | 0.58                    |
| For >1,600, Deduct  | -0.19                     |                         |
| 07 21 16 00-0027 SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation .....  | 2.35                      | 0.58                    |
| For >1,600, Deduct  | -0.29                     |                         |
| 07 21 16 00-0028 SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation .....  | 2.03                      | 0.58                    |
| For >1,600, Deduct  | -0.22                     |                         |
| 07 21 16 00-0029 SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation .....  | 2.61                      | 0.72                    |
| For >1,600, Deduct  | -0.32                     |                         |
| 07 21 16 00-0030 SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation ..... | 2.98                      | 0.72                    |
| For >1,600, Deduct  | -0.35                     |                         |
| <b>07 21 16 00-0031 Mineral Wool Flexible Insulation (07 21 16)</b>                             |                           |                         |
| <b>07 21 16 00-0032 Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)</b>        |                           |                         |
| 07 21 16 00-0033 SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation.....              | 1.81                      | 0.58                    |
| For >1,600, Deduct  | -0.19                     |                         |
| 07 21 16 00-0034 SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation.....              | 2.33                      | 0.58                    |
| For >1,600, Deduct  | -0.28                     |                         |
| 07 21 16 00-0035 SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation.....              | 3.46                      | 0.58                    |
| For >1,600, Deduct  | -0.46                     |                         |
| 07 21 16 00-0036 SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation.....                 | 4.11                      | 0.58                    |
| For >1,600, Deduct  | -0.58                     |                         |
| <b>07 21 16 00-0037 Unfaced, Mineral Wool Flexible Insulation (07 21 16 00-0031)</b>            |                           |                         |
| 07 21 16 00-0038 SF 3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation.....                  | 1.71                      | 0.58                    |
| For >1,600, Deduct  | -0.17                     |                         |
| 07 21 16 00-0039 SF 6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation.....                  | 2.16                      | 0.58                    |
| For >1,600, Deduct  | -0.25                     |                         |
| 07 21 16 00-0040 SF 9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation.....                  | 3.16                      | 0.58                    |
| For >1,600, Deduct  | -0.42                     |                         |
| 07 21 16 00-0041 SF 12" Unfaced, R-38 Mineral Wool Flexible Insulation .....                    | 3.74                      | 0.58                    |
| For >1,600, Deduct  | -0.50                     |                         |
| <b>07 21 16 00-0042 Natural Cotton Insulation (07 21 16)</b>                                    |                           |                         |
| <b>07 21 16 00-0043 UltraTouch™ Natural Cotton Insulation (07 21 16 00-0042)</b>                |                           |                         |
| Note: 85% recycled denim cotton.  |                           |                         |
| 07 21 16 00-0044 SF 3-1/2", R-13 UltraTouch™ Natural Cotton Insulation .....                    | 2.34                      | 0.58                    |
| For >1,600, Deduct  | -0.30                     |                         |
| 07 21 16 00-0045 SF 5-1/2", R-19 UltraTouch™ Natural Cotton Insulation .....                    | 2.59                      | 0.58                    |
| For >1,600, Deduct  | -0.34                     |                         |
| 07 21 16 00-0046 SF 5-1/2", R-21 UltraTouch™ Natural Cotton Insulation .....                    | 2.85                      | 0.58                    |
| For >1,600, Deduct  | -0.39                     |                         |
| 07 21 16 00-0047 SF 8", R-30 UltraTouch™ Natural Cotton Insulation .....                        | 3.73                      | 0.58                    |
| For >1,600, Deduct  | -0.55                     |                         |

**07 21 19 Foamed-In-Place Insulation (07 21)**

## 07 Thermal And Moisture Protection

## 07 20 Thermal Protection

## 07 21 Thermal Insulation

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| 07 21 19 00-0001 Polyurethane Foam Insulation, Sprayed On <small>(07 21 19)</small> |  |          |
|---|--|----------|
| 07 21 19 00-0002  | EA Foamed-In-Place, Spray Polyurethane Insulation Minimum Charge .....   | 1,481.28 |
|   | Note: For projects where the total foamed-in-place insulation charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section. |          |
| 07 21 19 00-0003  | SF 1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....   | 1.52     |
|   | For Up To 250 SF, Add  | 0.57     |
|   | For >250 To 500 SF, Add  | 0.29     |
|   | For >500 To 1,000 SF, Add  | 0.12     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.18    |
|   | For >10,000 SF, Deduct   | -0.45    |
| 07 21 19 00-0004  | SF 1-1/2" Thick, R5.7, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation .....  | 2.06     |
|   | For Up To 250 SF, Add  | 0.75     |
|   | For >250 To 500 SF, Add  | 0.38     |
|   | For >500 To 1,000 SF, Add  | 0.16     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.24    |
|   | For >10,000 SF, Deduct   | -0.59    |
| 07 21 19 00-0005  | SF 2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....   | 2.59     |
|   | For Up To 250 SF, Add  | 0.93     |
|   | For >250 To 500 SF, Add  | 0.46     |
|   | For >500 To 1,000 SF, Add  | 0.20     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.30    |
|   | For >10,000 SF, Deduct   | -0.73    |
| 07 21 19 00-0006  | SF 2-1/2" Thick, R9.5, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation .....  | 3.13     |
|   | For Up To 250 SF, Add  | 1.10     |
|   | For >250 To 500 SF, Add  | 0.55     |
|   | For >500 To 1,000 SF, Add  | 0.24     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.35    |
|   | For >10,000 SF, Deduct   | -0.87    |
| 07 21 19 00-0007  | SF 3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 3.65     |
|   | For Up To 250 SF, Add  | 1.27     |
|   | For >250 To 500 SF, Add  | 0.64     |
|   | For >500 To 1,000 SF, Add  | 0.27     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.41    |
|   | For >10,000 SF, Deduct   | -1.00    |
| 07 21 19 00-0008  | SF 3-1/2" Thick, R13.3, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 4.19     |
|   | For Up To 250 SF, Add  | 1.45     |
|   | For >250 To 500 SF, Add  | 0.73     |
|   | For >500 To 1,000 SF, Add  | 0.31     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.47    |
|   | For >10,000 SF, Deduct   | -1.14    |
| 07 21 19 00-0009  | SF 4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 4.72     |
|   | For Up To 250 SF, Add  | 1.62     |
|   | For >250 To 500 SF, Add  | 0.81     |
|   | For >500 To 1,000 SF, Add  | 0.35     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.52    |
|   | For >10,000 SF, Deduct   | -1.27    |
| 07 21 19 00-0010  | SF 4-1/2" Thick, R17.1, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 5.26     |
|   | For Up To 250 SF, Add  | 1.80     |
|   | For >250 To 500 SF, Add  | 0.90     |
|   | For >500 To 1,000 SF, Add  | 0.39     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.58    |
|   | For >10,000 SF, Deduct   | -1.41    |
| 07 21 19 00-0011  | SF 5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 5.79     |
|   | For Up To 250 SF, Add  | 1.97     |
|   | For >250 To 500 SF, Add  | 0.99     |
|   | For >500 To 1,000 SF, Add  | 0.43     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.64    |
|   | For >10,000 SF, Deduct   | -1.55    |
| 07 21 19 00-0012  | SF 5-1/2" Thick, R20.9, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 6.33     |
|   | For Up To 250 SF, Add  | 2.15     |
|   | For >250 To 500 SF, Add  | 1.08     |
|   | For >500 To 1,000 SF, Add  | 0.46     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.70    |
|   | For >10,000 SF, Deduct   | -1.69    |
| 07 21 19 00-0013  | SF 6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....  | 6.86     |
|   | For Up To 250 SF, Add  | 2.32     |
|   | For >250 To 500 SF, Add  | 1.16     |
|   | For >500 To 1,000 SF, Add  | 0.50     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.75    |
|   | For >10,000 SF, Deduct   | -1.82    |
| 07 21 19 00-0014  | SF 1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....  | 2.93     |
|   | For Up To 250 SF, Add  | 1.10     |
|   | For >250 To 500 SF, Add  | 0.55     |
|   | For >500 To 1,000 SF, Add  | 0.23     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.35    |
|   | For >10,000 SF, Deduct   | -0.86    |
| 07 21 19 00-0015  | SF 1-1/2" Thick, R9.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....   | 3.88     |
|   | For Up To 250 SF, Add  | 1.39     |
|   | For >250 To 500 SF, Add  | 0.69     |
|   | For >500 To 1,000 SF, Add  | 0.30     |
|   | For >5,000 To 10,000 SF, Deduct  | -0.44    |
|   | For >10,000 SF, Deduct   | -1.09    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 21 19 00-0016 SF 2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....            | 4.72                      |                         |
| For Up To 250 SF, Add  | 1.62                      |                         |
| For >250 To 500 SF, Add  | 0.81                      |                         |
| For >500 To 1,000 SF, Add  | 0.35                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -0.52                     |                         |
| For >10,000 SF, Deduct   | -1.27                     |                         |
| 07 21 19 00-0017 SF 2-1/2" Thick, R16.25, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....       | 5.68                      |                         |
| For Up To 250 SF, Add  | 1.92                      |                         |
| For >250 To 500 SF, Add  | 0.96                      |                         |
| For >500 To 1,000 SF, Add  | 0.41                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -0.62                     |                         |
| For >10,000 SF, Deduct   | -1.50                     |                         |
| 07 21 19 00-0018 SF 3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....            | 6.51                      |                         |
| For Up To 250 SF, Add  | 2.15                      |                         |
| For >250 To 500 SF, Add  | 1.07                      |                         |
| For >500 To 1,000 SF, Add  | 0.47                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -0.70                     |                         |
| For >10,000 SF, Deduct   | -1.68                     |                         |
| 07 21 19 00-0019 SF 3-1/2" Thick, R22.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....       | 7.48                      |                         |
| For Up To 250 SF, Add  | 2.45                      |                         |
| For >250 To 500 SF, Add  | 1.22                      |                         |
| For >500 To 1,000 SF, Add  | 0.53                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -0.80                     |                         |
| For >10,000 SF, Deduct   | -1.91                     |                         |
| 07 21 19 00-0020 SF 4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....            | 8.32                      |                         |
| For Up To 250 SF, Add  | 2.68                      |                         |
| For >250 To 500 SF, Add  | 1.34                      |                         |
| For >500 To 1,000 SF, Add  | 0.59                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -0.88                     |                         |
| For >10,000 SF, Deduct   | -2.10                     |                         |
| 07 21 19 00-0021 SF 4-1/2" Thick, R29.25, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....       | 9.28                      |                         |
| For Up To 250 SF, Add  | 2.98                      |                         |
| For >250 To 500 SF, Add  | 1.49                      |                         |
| For >500 To 1,000 SF, Add  | 0.65                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -0.98                     |                         |
| For >10,000 SF, Deduct   | -2.33                     |                         |
| 07 21 19 00-0022 SF 5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....            | 10.11                     |                         |
| For Up To 250 SF, Add  | 3.21                      |                         |
| For >250 To 500 SF, Add  | 1.61                      |                         |
| For >500 To 1,000 SF, Add  | 0.70                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -1.06                     |                         |
| For >10,000 SF, Deduct   | -2.51                     |                         |
| 07 21 19 00-0023 SF 5-1/2" Thick, R35.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....       | 11.07                     |                         |
| For Up To 250 SF, Add  | 3.50                      |                         |
| For >250 To 500 SF, Add  | 1.75                      |                         |
| For >500 To 1,000 SF, Add  | 0.77                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -1.15                     |                         |
| For >10,000 SF, Deduct   | -2.74                     |                         |
| 07 21 19 00-0024 SF 6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....            | 11.90                     |                         |
| For Up To 250 SF, Add  | 3.74                      |                         |
| For >250 To 500 SF, Add  | 1.87                      |                         |
| For >500 To 1,000 SF, Add  | 0.82                      |                         |
| For >5,000 To 10,000 SF, Deduct  | -1.23                     |                         |
| For >10,000 SF, Deduct   | -2.92                     |                         |
| <b>07 21 19 00-0025 Expanding Foam Insulation To Fill Hollow Metal Door Frames (07 21 19)</b>                  |                           |                         |
| 07 21 19 00-0026 LF Expanding Foam Insulation To Fill 4-3/4" Deep Hollow Metal Door Frame .....                | 5.29                      |                         |
| 07 21 19 00-0027 LF Expanding Foam Insulation To Fill 5-3/4" Deep Hollow Metal Door Frame .....                | 6.60                      |                         |
| 07 21 19 00-0028 LF Expanding Foam Insulation To Fill 6-3/4" Deep Hollow Metal Door Frame .....                | 7.93                      |                         |
| 07 21 19 00-0029 LF Expanding Foam Insulation To Fill 6-3/4" Through 8-3/4" Deep Hollow Metal Door Frame ..... | 9.30                      |                         |
| 07 21 19 00-0030 LF Expanding Foam Insulation To Fill 8-7/8" Through 13" Deep Hollow Metal Door Frame.....     | 10.75                     |                         |
| <b>07 21 19 00-0031 Expanding Foam Insulation To Fill Window Frames (07 21 19)</b>                             |                           |                         |
| 07 21 19 00-0032 LF Expanding Foam Insulation To Fill Window Frame.....  | 5.19                      |                         |
| <b>07 21 23 Loose-Fill Insulation (07 21)</b>  |                           |                         |
| <b>07 21 23 00-0001 Poured Type, Loose Fill Insulation (07 21 23)</b>  |                           |                         |
| 07 21 23 00-0002 CF R-4/Inch, Poured Type, Fiberglass Loose Fill Insulation.....                               | 8.30                      | 3.35                    |
| 07 21 23 00-0003 CF R-3.8/Inch, Poured Type, Cellulose Loose Fill Insulation .....                             | 8.32                      | 3.35                    |
| <b>07 21 23 00-0004 Concrete Block Wall Cavity Insulation (07 21 23)</b>                                       |                           |                         |
| 07 21 23 00-0005 CF R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation .....                 | 10.63                     | 3.35                    |
| 07 21 23 00-0006 CF R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....                          | 10.55                     | 3.35                    |
| <b>07 21 26 Blown Insulation (07 21)</b>   |                           |                         |
| 07 21 26 00-0001 Fiberglass Blown-In Insulation (07 21 26)   |                           |                         |
| 07 21 26 00-0002 Attic, Fiberglass Blown-In Insulation (07 21 26 00-0001)                                      |                           |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|--|------------------------|----------------------|
| 07 21 26 00-0003                              | SF  |     | 4-1/2" Thick, R-11 Attic, Fiberglass Blown In Insulation.....                              | 1.65                   | 1.38                 |
| 07 21 26 00-0004                              | SF  |     | 5-1/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....                              | 1.84                   | 1.52                 |
| 07 21 26 00-0005                              | SF  |     | 6-1/2" Thick, R-17 Attic, Fiberglass Blown In Insulation.....                              | 2.04                   | 1.66                 |
| 07 21 26 00-0006                              | SF  |     | 7-1/2" Thick, R-19 Attic, Fiberglass Blown In Insulation.....                              | 2.26                   | 1.79                 |
| 07 21 26 00-0007                              | SF  |     | 8-1/2" Thick, R-22 Attic, Fiberglass Blown In Insulation.....                              | 2.41                   | 1.87                 |
| 07 21 26 00-0008                              | SF  |     | 10-1/4" Thick, R-26 Attic, Fiberglass Blown In Insulation.....                             | 2.58                   | 1.93                 |
| 07 21 26 00-0009                              | SF  |     | 11-1/2" Thick, R-30 Attic, Fiberglass Blown In Insulation.....                             | 2.76                   | 2.00                 |
| 07 21 26 00-0010                              | SF  |     | 12-1/2" Thick, R-32 Attic, Fiberglass Blown In Insulation.....                             | 2.89                   | 2.07                 |
| 07 21 26 00-0011                              | SF  |     | 13-1/2" Thick, R-35 Attic, Fiberglass Blown In Insulation.....                             | 3.10                   | 2.21                 |
| 07 21 26 00-0012                              | SF  |     | 14-1/2" Thick, R-38 Attic, Fiberglass Blown In Insulation.....                             | 3.26                   | 2.28                 |
| 07 21 26 00-0013                              | SF  |     | 16-1/2" Thick, R-44 Attic, Fiberglass Blown In Insulation.....                             | 3.49                   | 2.35                 |
| 07 21 26 00-0014                              | SF  |     | 18-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....                             | 3.77                   | 2.48                 |
| 07 21 26 00-0015                              | SF  |     | 21-3/4" Thick, R-60 Attic, Fiberglass Blown In Insulation.....                             | 4.35                   | 2.76                 |
| <b>07 21 26 00-0016</b>                       |     |     | <b>New Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)</b>                         |                        |                      |
| 07 21 26 00-0017                              | SF  |     | 3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation .....                          | 2.31                   | 1.38                 |
| 07 21 26 00-0018                              | SF  |     | 5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation .....                          | 3.05                   | 1.66                 |
| 07 21 26 00-0019                              | SF  |     | 7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation .....                          | 3.58                   | 1.79                 |
| 07 21 26 00-0020                              | SF  |     | 9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation .....                          | 4.22                   | 1.93                 |
| <b>07 21 26 00-0021</b>                       |     |     | <b>Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)</b>                    |                        |                      |
|   |     |     | Note: Includes drilling. Excludes patching.  |                        |                      |
| 07 21 26 00-0022                              | SF  |     | 3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation .....                     | 2.21                   | 1.38                 |
| 07 21 26 00-0023                              | SF  |     | 5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation .....                     | 2.95                   | 1.66                 |
| 07 21 26 00-0024                              | SF  |     | 7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation .....                     | 3.48                   | 1.79                 |
| 07 21 26 00-0025                              | SF  |     | 9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation .....                     | 4.12                   | 1.93                 |
| <b>07 21 26 00-0026</b>                       |     |     | <b>Cellulose Blown-In Insulation (07 21 26)</b>  |                        |                      |
| <b>07 21 26 00-0027</b>                       |     |     | <b>Attic, Cellulose Blown-In Insulation (07 21 26 00-0026)</b>                             |                        |                      |
| 07 21 26 00-0028                              | SF  |     | 3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation .....                              | 1.63                   | 1.38                 |
| 07 21 26 00-0029                              | SF  |     | 5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation .....                              | 1.91                   | 1.52                 |
| 07 21 26 00-0030                              | SF  |     | 6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation .....                              | 2.12                   | 1.66                 |
| 07 21 26 00-0031                              | SF  |     | 7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation .....                              | 2.40                   | 1.79                 |
| 07 21 26 00-0032                              | SF  |     | 8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation .....                              | 2.44                   | 1.79                 |
| 07 21 26 00-0033                              | SF  |     | 10-3/4" Thick, R-38 Attic, Cellulose Blown In Insulation .....                             | 2.77                   | 1.93                 |
| 07 21 26 00-0034                              | SF  |     | 11-1/4" Thick, R-40 Attic, Cellulose Blown In Insulation .....                             | 2.83                   | 1.93                 |
| 07 21 26 00-0035                              | SF  |     | 12-1/2" Thick, R-45 Attic, Cellulose Blown In Insulation .....                             | 3.08                   | 2.07                 |
| 07 21 26 00-0036                              | SF  |     | 13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation .....                             | 3.22                   | 2.07                 |
| 07 21 26 00-0037                              | SF  |     | 15-1/2" Thick, R-55 Attic, Cellulose Blown In Insulation .....                             | 3.47                   | 2.21                 |
| 07 21 26 00-0038                              | SF  |     | 16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation .....                             | 3.61                   | 2.21                 |
| <b>07 21 26 00-0039</b>                       |     |     | <b>New Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)</b>                          |                        |                      |
| 07 21 26 00-0040                              | SF  |     | 3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation .....                           | 2.02                   | 1.38                 |
| 07 21 26 00-0041                              | SF  |     | 5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation .....                           | 2.61                   | 1.66                 |
| 07 21 26 00-0042                              | SF  |     | 7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation .....                           | 2.99                   | 1.79                 |
| 07 21 26 00-0043                              | SF  |     | 9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation .....                           | 3.46                   | 1.93                 |
| <b>07 21 26 00-0044</b>                       |     |     | <b>Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)</b>                     |                        |                      |
|   |     |     | Note: Includes drilling. Excludes patching.  |                        |                      |
| 07 21 26 00-0045                              | SF  |     | 3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation .....                      | 1.92                   | 1.38                 |
| 07 21 26 00-0046                              | SF  |     | 5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation .....                      | 2.51                   | 1.66                 |
| 07 21 26 00-0047                              | SF  |     | 7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation .....                      | 2.89                   | 1.79                 |
| 07 21 26 00-0048                              | SF  |     | 9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation .....                      | 3.36                   | 1.93                 |
| <b>07 21 29 Sprayed Insulation (07 21)</b>    |     |     |  |                        |                      |
| <b>07 21 29 00-0001</b>                       |     |     | <b>Fiber Sprayed On Insulation (07 21 29)</b>  |                        |                      |
|   |     |     | Note: Per each 1" of thickness.  |                        |                      |
| 07 21 29 00-0002                              | SF  |     | 1" Thick, R2.7, Spray-on Perlite Insulation .....  | 2.37                   | 0.71                 |
| 07 21 29 00-0003                              | SF  |     | 1" Thick, R3.7, Spray-on Fibrous/Cementitious Insulation .....                             | 1.74                   | 0.71                 |
| <b>07 21 29 00-0004</b>                       |     |     | <b>Cellulose Sprayed On Insulation (07 21 29)</b>  |                        |                      |
| 07 21 29 00-0005                              | SF  |     | 1" Thick, Spray-on Cellulose Insulation .....  | 3.33                   | 0.71                 |
| <b>07 21 53 Reflective Insulation (07 21)</b> |     |     |  |                        |                      |
| <b>07 21 53 00-0001</b>                       |     |     | <b>Reflective Barrier Insulation (Foil - Single Bubble - Foil) (07 21 53)</b>              |                        |                      |
| 07 21 53 00-0002                              | SF  |     | 3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space ..... | 1.31                   |                      |

**07 22 Roof and Deck Insulation (07 20)**



| MINOR | CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|---------------------|------------------------|----------------------|
|-------|---------------------|------------------------|----------------------|

**07 22 16**

**Roof Board Insulation (07 22)**

Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.

|                  |   |       |  |
|------------------|---|-------|--|
| 07 22 16 00-0001 | <b>Rigid Board Roofing Insulation (07 22 16)</b><br>Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. See CSI section 07 22 16 00-0466 for demolition of insulation board. |       |  |
| 07 22 16 00-0002 | <b>Cold Adhesive Applied Rigid Board Roofing Insulation (07 22 16 00-0001)</b>  |       |  |
| 07 22 16 00-0003 | <b>Cold Adhesive Applied, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0002)</b>   |       |  |
| 07 22 16 00-0004 | SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied .....  | 2.49  |  |
| 07 22 16 00-0005 | SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied .....  | 2.92  |  |
| 07 22 16 00-0006 | SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied .....  | 3.33  |  |
| 07 22 16 00-0007 | SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied .....  | 4.09  |  |
| 07 22 16 00-0008 | SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied .....  | 4.84  |  |
| 07 22 16 00-0009 | <b>Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0002)</b>   |       |  |
| 07 22 16 00-0010 | SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied .....  | 2.71  |  |
| 07 22 16 00-0011 | SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied .....  | 3.20  |  |
| 07 22 16 00-0012 | <b>Cold Adhesive Applied, Perlite, Roof Board Insulation (07 22 16 00-0002)</b>   |       |  |
| 07 22 16 00-0013 | SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied .....   | 2.43  |  |
| 07 22 16 00-0014 | SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied .....   | 2.43  |  |
| 07 22 16 00-0015 | SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Cold Adhesive Applied .....   | 2.68  |  |
| 07 22 16 00-0016 | SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Cold Adhesive Applied .....   | 2.98  |  |
| 07 22 16 00-0017 | SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Cold Adhesive Applied .....   | 3.72  |  |
| 07 22 16 00-0018 | SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Cold Adhesive Applied .....   | 4.18  |  |
| 07 22 16 00-0019 | <b>Cold Adhesive Applied, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0002)</b>   |       |  |
| 07 22 16 00-0020 | SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied .....  | 3.38  |  |
| 07 22 16 00-0021 | SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied .....  | 4.55  |  |
| 07 22 16 00-0022 | SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied .....   | 5.93  |  |
| 07 22 16 00-0023 | <b>Cold Adhesive Applied, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0002)</b>   |       |  |
| 07 22 16 00-0024 | SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied .....   | 6.31  |  |
| 07 22 16 00-0025 | SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied .....   | 7.44  |  |
| 07 22 16 00-0026 | SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied .....   | 9.70  |  |
| 07 22 16 00-0027 | SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied .....  | 12.58 |  |
| 07 22 16 00-0028 | <b>Cold Adhesive Applied, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0002)</b>   |       |  |
| 07 22 16 00-0029 | SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....  | 2.36  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.30 |  |
| 07 22 16 00-0030 | SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....  | 2.44  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.30 |  |
| 07 22 16 00-0031 | SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....  | 2.71  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.30 |  |
| 07 22 16 00-0032 | SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....  | 2.98  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.30 |  |
| 07 22 16 00-0033 | SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....  | 4.09  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.32 |  |
| 07 22 16 00-0034 | SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....   | 5.19  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.33 |  |
| 07 22 16 00-0035 | SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....   | 6.29  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.35 |  |
| 07 22 16 00-0036 | SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....   | 7.39  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.36 |  |
| 07 22 16 00-0037 | SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied .....  | 8.50  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.38 |  |
| 07 22 16 00-0038 | <b>Cold Adhesive Applied, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0002)</b>  |       |  |
|                  | Note: 15 PSI compressive strength.  |       |  |
| 07 22 16 00-0039 | SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied .....   | 3.20  |  |
|                  | <i>For Loose-Laid, Deduct</i>   | -1.25 |  |
|                  | <i>For 25 PSI Compressive Strength, Add</i>   | 0.33  |  |
|                  | <i>For 40 PSI Compressive Strength, Add</i>   | 0.79  |  |
|                  | <i>For 60 PSI Compressive Strength, Add</i>   | 1.27  |  |
|                  | <i>For 115 PSI Compressive Strength, Add</i>  | 5.48  |  |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR            |     |   |       | TOTAL DIRECT | DEMOLITION |
|------------------|-----|---|-------|--------------|------------|
| CSI              | UOM | DESCRIPTION   |       | UNIT COST    | UNIT COST  |
| 07 22 16 00-0040 | SF  | 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied                                | 3.28  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.25 |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.35  |              |            |
|                  |     | <i>For 40 PSI Compressive Strength, Add</i>   | 0.82  |              |            |
|                  |     | <i>For 60 PSI Compressive Strength, Add</i>   | 1.31  |              |            |
|                  |     | <i>For 115 PSI Compressive Strength, Add</i>  | 5.66  |              |            |
| 07 22 16 00-0041 | SF  | 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied                            | 4.15  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.25 |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.48  |              |            |
|                  |     | <i>For 40 PSI Compressive Strength, Add</i>   | 1.15  |              |            |
|                  |     | <i>For 60 PSI Compressive Strength, Add</i>   | 1.81  |              |            |
|                  |     | <i>For 100 PSI Compressive Strength, Add</i>  | 2.33  |              |            |
|                  |     | <i>For 115 PSI Compressive Strength, Add</i>  | 7.90  |              |            |
| 07 22 16 00-0042 | SF  | 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied                               | 4.77  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.27 |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.58  |              |            |
|                  |     | <i>For 40 PSI Compressive Strength, Add</i>   | 1.38  |              |            |
|                  |     | <i>For 60 PSI Compressive Strength, Add</i>   | 2.16  |              |            |
|                  |     | <i>For 115 PSI Compressive Strength, Add</i>  | 9.42  |              |            |
| 07 22 16 00-0043 | SF  | 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied                           | 5.73  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.27 |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.73  |              |            |
|                  |     | <i>For 40 PSI Compressive Strength, Add</i>   | 1.74  |              |            |
|                  |     | <i>For 60 PSI Compressive Strength, Add</i>   | 2.71  |              |            |
|                  |     | <i>For 100 PSI Compressive Strength, Add</i>  | 3.49  |              |            |
|                  |     | <i>For 115 PSI Compressive Strength, Add</i>  | 11.89 |              |            |
| 07 22 16 00-0044 | SF  | 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied                               | 6.27  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.28 |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.81  |              |            |
|                  |     | <i>For 40 PSI Compressive Strength, Add</i>   | 1.93  |              |            |
|                  |     | <i>For 60 PSI Compressive Strength, Add</i>   | 3.01  |              |            |
|                  |     | <i>For 115 PSI Compressive Strength, Add</i>  | 13.20 |              |            |
| 07 22 16 00-0045 | SF  | 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied                               | 7.04  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.30 |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.93  |              |            |
|                  |     | <i>For 40 PSI Compressive Strength, Add</i>   | 2.22  |              |            |
|                  |     | <i>For 60 PSI Compressive Strength, Add</i>   | 3.44  |              |            |
|                  |     | <i>For 115 PSI Compressive Strength, Add</i>  | 15.10 |              |            |
| 07 22 16 00-0046 |     | <b>Cold Adhesive Applied, Polyisocyanurate Board Roofing Insulation</b> (07 22 16 00-0002)                        |       |              |            |
| 07 22 16 00-0047 | SF  | 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                                  | 2.86  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.25 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.18  |              |            |
| 07 22 16 00-0048 | SF  | 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                                    | 2.98  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.25 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.19  |              |            |
| 07 22 16 00-0049 | SF  | 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                                | 3.15  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.26 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.20  |              |            |
| 07 22 16 00-0050 | SF  | 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                                   | 3.60  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.27 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.25  |              |            |
| 07 22 16 00-0051 | SF  | 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                               | 4.05  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.27 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.29  |              |            |
| 07 22 16 00-0052 | SF  | 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                                   | 4.51  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.28 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.33  |              |            |
| 07 22 16 00-0053 | SF  | 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                               | 5.00  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.29 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.38  |              |            |
| 07 22 16 00-0054 | SF  | 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied                                   | 5.45  |              |            |
|                  |     | <i>For Loose-Laid, Deduct</i>   | -1.30 |              |            |
|                  |     | <i>For Foil Facer, Add</i>  | 0.36  |              |            |
|                  |     | <i>For 25 PSI Compressive Strength, Add</i>   | 0.42  |              |            |
| 07 22 16 00-0055 |     | <b>Cold Adhesive Applied, High-Density Polyisocyanurate Cover Board And Roofing Insulation</b> (07 22 16 00-0002) |       |              |            |
| 07 22 16 00-0056 | SF  | 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Cold Adhesive Applied         | 3.24  |              |            |
| 07 22 16 00-0057 |     | <b>Cold Adhesive Applied, Gypsum-Fiber, Roof Board Insulation (USG Securock)</b> (07 22 16 00-0002)               |       |              |            |
| 07 22 16 00-0058 | SF  | 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied                | 3.07  |              |            |
| 07 22 16 00-0059 | SF  | 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied                | 3.26  |              |            |



|  |  |              |
|--|--|--------------|
| <b>Thermal And Moisture Protection</b> |  | <b>07</b>    |
| <b>Thermal Protection</b>              |  | <b>07 20</b> |
| <b>Roof and Deck Insulation</b>        |  | <b>07 22</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0060 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied .....   | 3.38                      |                         |
| 07 22 16 00-0061 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied .....   | 3.45                      |                         |
| <b>07 22 16 00-0062 Cold Adhesive Applied, Glass-Mat, Roof Board Insulation (USG Securock)</b><br><small>(07 22 16 00-0002)</small>  |                           |                         |
| 07 22 16 00-0063 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied .....  | 3.01                      |                         |
| 07 22 16 00-0064 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied .....  | 3.29                      |                         |
| 07 22 16 00-0065 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied .....  | 3.35                      |                         |
| <b>07 22 16 00-0066 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation</b><br><small>(07 22 16 00-0002)</small>                             |                           |                         |
| <small>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</small>  |                           |                         |
| 07 22 16 00-0067 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....  | 5.22                      |                         |
| 07 22 16 00-0068 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....  | 5.48                      |                         |
| 07 22 16 00-0069 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....   | 5.84                      |                         |
| 07 22 16 00-0070 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....   | 6.07                      |                         |
| 07 22 16 00-0071 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....   | 6.59                      |                         |
| 07 22 16 00-0072 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....   | 6.81                      |                         |
| 07 22 16 00-0073 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied .....   | 7.17                      |                         |
| <b>07 22 16 00-0074 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation</b><br><small>(07 22 16 00-0002)</small> |                           |                         |
| <small>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</small>  |                           |                         |
| 07 22 16 00-0075 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                  | 5.27                      |                         |
| 07 22 16 00-0076 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                    | 5.74                      |                         |
| 07 22 16 00-0077 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                 | 6.29                      |                         |
| 07 22 16 00-0078 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                   | 6.66                      |                         |
| 07 22 16 00-0079 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                 | 7.11                      |                         |
| 07 22 16 00-0080 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                   | 7.61                      |                         |
| 07 22 16 00-0081 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied .....                 | 8.51                      |                         |
| <b>07 22 16 00-0082 Hot-Mopped Rigid Board Roofing Insulation</b><br><small>(07 22 16 00-0001)</small>   |                           |                         |
| <b>07 22 16 00-0083 Hot-Mopped, High-Density Fiberboard, Roof Board Insulation</b><br><small>(07 22 16 00-0082)</small>  |                           |                         |
| 07 22 16 00-0084 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped .....   | 2.23                      |                         |
| 07 22 16 00-0085 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped .....   | 2.64                      |                         |
| 07 22 16 00-0086 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped .....   | 3.07                      |                         |
| 07 22 16 00-0087 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped .....   | 3.84                      |                         |
| 07 22 16 00-0088 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped .....   | 4.61                      |                         |
| <b>07 22 16 00-0089 Hot-Mopped, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation</b><br><small>(07 22 16 00-0082)</small>  |                           |                         |
| 07 22 16 00-0090 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped .....   | 2.44                      |                         |
| 07 22 16 00-0091 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped .....   | 2.94                      |                         |
| <b>07 22 16 00-0092 Hot-Mopped, Perlite, Roof Board Insulation</b><br><small>(07 22 16 00-0082)</small>  |                           |                         |
| 07 22 16 00-0093 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Hot-Mopped .....  | 2.14                      |                         |
| 07 22 16 00-0094 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Hot-Mopped .....  | 2.38                      |                         |
| 07 22 16 00-0095 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Hot-Mopped .....  | 2.69                      |                         |
| 07 22 16 00-0096 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Hot-Mopped .....  | 3.42                      |                         |
| 07 22 16 00-0097 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Hot-Mopped .....  | 3.89                      |                         |
| <b>07 22 16 00-0098 Hot-Mopped, Basalt Mineral Wool, Roof Board Insulation</b><br><small>(07 22 16 00-0082)</small>  |                           |                         |
| 07 22 16 00-0099 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped .....   | 3.09                      |                         |
| 07 22 16 00-0100 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped .....   | 4.25                      |                         |
| 07 22 16 00-0101 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped .....  | 5.66                      |                         |
| <b>07 22 16 00-0102 Hot-Mopped, Foam Glass (Cellular Glass), Roof Board Insulation</b><br><small>(07 22 16 00-0082)</small>  |                           |                         |
| 07 22 16 00-0103 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped .....  | 6.02                      |                         |
| 07 22 16 00-0104 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped .....  | 7.15                      |                         |



**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0105 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped .....     | 9.42                      |                         |
| 07 22 16 00-0106 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped .....    | 12.31                     |                         |
| <b>07 22 16 00-0107 Hot-Mopped, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0082)</b>         |                           |                         |
| 07 22 16 00-0108 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped..... | 2.08                      |                         |
| 07 22 16 00-0109 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped..... | 2.15                      |                         |
| 07 22 16 00-0110 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped..... | 2.30                      |                         |
| 07 22 16 00-0111 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped .....  | 2.69                      |                         |
| 07 22 16 00-0112 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped .....  | 3.80                      |                         |
| 07 22 16 00-0113 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped ..... | 4.92                      |                         |
| 07 22 16 00-0114 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped ..... | 6.02                      |                         |
| 07 22 16 00-0115 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped ..... | 7.13                      |                         |
| 07 22 16 00-0116 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped .....  | 8.23                      |                         |
| <b>07 22 16 00-0117 Hot-Mopped, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0082)</b>                |                           |                         |
| Note: 15 PSI compressive strength.  |                           |                         |
| 07 22 16 00-0118 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....               | 2.90                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.27                      |                         |
| For 40 PSI Compressive Strength, Add  | 0.64                      |                         |
| For 60 PSI Compressive Strength, Add  | 1.04                      |                         |
| For 115 PSI Compressive Strength, Add   | 4.44                      |                         |
| 07 22 16 00-0119 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....                 | 2.98                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.28                      |                         |
| For 40 PSI Compressive Strength, Add  | 0.67                      |                         |
| For 60 PSI Compressive Strength, Add  | 1.08                      |                         |
| For 115 PSI Compressive Strength, Add   | 4.62                      |                         |
| 07 22 16 00-0120 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....             | 3.85                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.42                      |                         |
| For 40 PSI Compressive Strength, Add  | 1.00                      |                         |
| For 60 PSI Compressive Strength, Add  | 1.58                      |                         |
| For 100 PSI Compressive Strength, Add   | 2.03                      |                         |
| For 115 PSI Compressive Strength, Add   | 6.86                      |                         |
| 07 22 16 00-0121 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....                | 4.62                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.52                      |                         |
| For 40 PSI Compressive Strength, Add  | 1.22                      |                         |
| For 60 PSI Compressive Strength, Add  | 1.94                      |                         |
| For 115 PSI Compressive Strength, Add   | 8.42                      |                         |
| 07 22 16 00-0122 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....            | 16.82                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.67                      |                         |
| For 40 PSI Compressive Strength, Add  | 1.59                      |                         |
| For 60 PSI Compressive Strength, Add  | 3.06                      |                         |
| For 100 PSI Compressive Strength, Add   | 3.77                      |                         |
| For 115 PSI Compressive Strength, Add   | 12.01                     |                         |
| 07 22 16 00-0123 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....                | 6.00                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.75                      |                         |
| For 40 PSI Compressive Strength, Add  | 1.78                      |                         |
| For 60 PSI Compressive Strength, Add  | 2.79                      |                         |
| For 115 PSI Compressive Strength, Add   | 12.18                     |                         |
| 07 22 16 00-0124 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped .....                | 6.75                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.87                      |                         |
| For 40 PSI Compressive Strength, Add  | 2.06                      |                         |
| For 60 PSI Compressive Strength, Add  | 3.21                      |                         |
| For 115 PSI Compressive Strength, Add   | 14.06                     |                         |
| <b>07 22 16 00-0125 Hot-Mopped, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0082)</b>                  |                           |                         |
| 07 22 16 00-0126 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                   | 2.58                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.14                      |                         |
| 07 22 16 00-0127 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                     | 2.68                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.15                      |                         |
| 07 22 16 00-0128 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                 | 2.86                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.16                      |                         |
| 07 22 16 00-0129 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                    | 3.31                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.21                      |                         |
| 07 22 16 00-0130 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                | 3.78                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.25                      |                         |
| 07 22 16 00-0131 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                    | 4.24                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.29                      |                         |
| 07 22 16 00-0132 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                | 4.60                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.34                      |                         |
| 07 22 16 00-0133 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped .....                    | 5.16                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.38                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>07 22 16 00-0134</b> Hot-Mopped, Gypsum-Fiber, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0082)</small>              |                           |                         |
| 07 22 16 00-0135 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped .....                     | 2.81                      |                         |
| 07 22 16 00-0136 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped .....                     | 2.99                      |                         |
| 07 22 16 00-0137 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped .....                     | 3.12                      |                         |
| 07 22 16 00-0138 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped .....                     | 3.18                      |                         |
| <b>07 22 16 00-0139</b> Hot-Mopped, Glass-Mat, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0082)</small>                 |                           |                         |
| 07 22 16 00-0140 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped .....                    | 2.74                      |                         |
| 07 22 16 00-0141 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped .....                    | 3.02                      |                         |
| 07 22 16 00-0142 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped .....                    | 3.09                      |                         |
| <b>07 22 16 00-0143</b> Mechanically Fastened Rigid Board Roofing Insulation <small>(07 22 16 00-0001)</small>                        |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| <b>07 22 16 00-0144</b> Mechanically Fastened, High-Density Fiberboard, Roof Board Insulation <small>(07 22 16 00-0143)</small>       |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 22 16 00-0145 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened .....                     | 2.29                      |                         |
| For Mechanically Fastened To Concrete, Add  |                           | 1.57                    |
| For Mechanically Fastened To Gypsum, Add  |                           | 2.07                    |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  |                           | 0.72                    |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   |                           | 2.47                    |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   |                           | 2.56                    |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   |                           | 1.09                    |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  |                           | 3.51                    |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  |                           | 3.84                    |
| 07 22 16 00-0146 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened .....                   | 2.72                      |                         |
| For Mechanically Fastened To Concrete, Add  |                           | 1.57                    |
| For Mechanically Fastened To Gypsum, Add  |                           | 2.07                    |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  |                           | 0.72                    |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   |                           | 2.49                    |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   |                           | 2.56                    |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   |                           | 1.09                    |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  |                           | 3.53                    |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  |                           | 3.84                    |
| 07 22 16 00-0147 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened .....                       | 3.13                      |                         |
| For Mechanically Fastened To Concrete, Add  |                           | 1.57                    |
| For Mechanically Fastened To Gypsum, Add  |                           | 2.07                    |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  |                           | 0.72                    |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   |                           | 2.52                    |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   |                           | 2.56                    |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   |                           | 1.09                    |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  |                           | 3.56                    |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  |                           | 3.84                    |
| 07 22 16 00-0148 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened .....                   | 3.98                      |                         |
| For Mechanically Fastened To Concrete, Add  |                           | 1.62                    |
| For Mechanically Fastened To Gypsum, Add  |                           | 2.07                    |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  |                           | 0.90                    |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   |                           | 2.20                    |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   |                           | 2.56                    |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   |                           | 1.34                    |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  |                           | 3.30                    |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  |                           | 3.84                    |
| 07 22 16 00-0149 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened .....                         | 4.73                      |                         |
| For Mechanically Fastened To Concrete, Add  |                           | 1.62                    |
| For Mechanically Fastened To Gypsum, Add  |                           | 2.01                    |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  |                           | 0.90                    |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   |                           | 2.20                    |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   |                           | 2.59                    |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   |                           | 1.34                    |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  |                           | 3.30                    |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  |                           | 3.88                    |
| <b>07 22 16 00-0150</b> Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation <small>(07 22 16 00-0143)</small> |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 22 16 00-0151 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened .....               | 2.51                      |                         |
| For Mechanically Fastened To Concrete, Add  |                           | 1.57                    |
| For Mechanically Fastened To Gypsum, Add  |                           | 2.07                    |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  |                           | 0.72                    |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   |                           | 2.52                    |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   |                           | 2.56                    |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   |                           | 1.09                    |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  |                           | 3.56                    |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  |                           | 3.84                    |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |      |
|------------------|----|--|------|
| 07 22 16 00-0152 | SF | 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened..... | 3.00 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                   | 0.72 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>                        | 2.52 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                          | 2.56 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                  | 1.09 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>                       | 3.56 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>                         | 3.84 |

**07 22 16 00-0153 Mechanically Fastened, Perlite, Roof Board Insulation (07 22 16 00-0143)**

Note: Mechanically fastened to wood or steel.

|                  |    |  |      |
|------------------|----|--|------|
| 07 22 16 00-0154 | SF | 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Mechanically Fastened .....   | 2.23 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                | 1.57 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>                                  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>        | 2.42 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>          | 2.56 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>       | 3.46 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>         | 3.84 |
| 07 22 16 00-0155 | SF | 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Mechanically Fastened .....   | 2.48 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                | 1.57 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>                                  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>        | 2.42 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>          | 2.56 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>       | 3.46 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>         | 3.84 |
| 07 22 16 00-0156 | SF | 1" Thick, R2.78, Perlite, Roof Board Insulation, Mechanically Fastened .....     | 2.78 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                | 1.57 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>                                  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>        | 2.42 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>          | 2.56 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>       | 3.46 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>         | 3.84 |
| 07 22 16 00-0157 | SF | 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Mechanically Fastened ..... | 3.61 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                | 1.62 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>                                  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>        | 2.20 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>          | 2.56 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>       | 3.30 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>         | 3.84 |
| 07 22 16 00-0158 | SF | 2" Thick, R5.56, Perlite, Roof Board Insulation, Mechanically Fastened .....     | 4.07 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                | 1.62 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>                                  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>        | 2.20 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>          | 2.59 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>       | 3.30 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>         | 3.88 |

**07 22 16 00-0159 Mechanically Fastened, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-**

0143)

Note: Mechanically fastened to wood or steel.

|                  |    |  |      |
|------------------|----|--|------|
| 07 22 16 00-0160 | SF | 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened..... | 3.18 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                      | 1.57 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>         | 0.72 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>              | 2.42 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                | 2.56 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>        | 1.09 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>             | 3.46 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>               | 3.84 |
| 07 22 16 00-0161 | SF | 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened..... | 4.43 |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>                                      | 1.62 |
|                  |    | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>         | 0.90 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>              | 2.20 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>                | 2.59 |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>        | 1.34 |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>             | 3.30 |
|                  |    | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>               | 3.88 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0162 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....                  | 5.91                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.73                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.80                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.89                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |
| <b>07 22 16 00-0163 Mechanically Fastened, Foam Glass (Cellular Glass), Roof Board Insulation</b>                            |                           |                         |
| <small>(07 22 16 00-0143)</small>  |                           |                         |
| Note: Mechanically fastened to wood or steel.  |                           |                         |
| 07 22 16 00-0164 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened .....     | 6.20                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.30                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 22 16 00-0165 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....          | 7.33                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.59                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.30                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.88                      |                         |
| 07 22 16 00-0166 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened .....     | 9.68                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.73                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.80                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.89                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |
| 07 22 16 00-0167 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened .....    | 12.71                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.02                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.23                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.66                      |                         |
| <b>07 22 16 00-0168 Mechanically Fastened, Molded Expanded Polystyrene, Roof Board Insulation</b>                            |                           |                         |
| <small>(07 22 16 00-0143)</small>  |                           |                         |
| Note: Mechanically fastened to wood or steel.  |                           |                         |
| 07 22 16 00-0169 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened..... | 2.16                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.45                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.49                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 22 16 00-0170 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened..... | 2.24                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.45                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.49                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 22 16 00-0171 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened..... | 2.51                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.45                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.49                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0172 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....  | 2.78                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.45                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.49                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0173 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....  | 3.97                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.62                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.01                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.90                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.20                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.59                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.34                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.30                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.88                      |                         |
| 07 22 16 00-0174 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened..... | 5.17                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.67                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.10                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.76                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.80                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.92                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.14                      |                         |
| 07 22 16 00-0175 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened..... | 6.42                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.71                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.09                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.53                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.91                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.80                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.37                      |                         |
| 07 22 16 00-0176 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened..... | 7.71                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.76                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.06                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.43                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.76                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 3.51                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 2.15                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 4.15                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 5.04                      |                         |
| 07 22 16 00-0177 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....  | 9.34                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.81                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 3.10                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 3.77                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 4.64                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 5.42                      |                         |
| <b>07 22 16 00-0178 Mechanically Fastened, Extruded Polystyrene, Roof Board Insulation</b> (07 22 16 00-0143)               |                           |                         |
| Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.  |                           |                         |
| 07 22 16 00-0179 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....               | 3.00                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.30                      |                         |
| For 40 PSI Compressive Strength, Add  | 0.72                      |                         |
| For 60 PSI Compressive Strength, Add  | 1.15                      |                         |
| For 115 PSI Compressive Strength, Add   | 4.97                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.42                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.46                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0180 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....                 | 3.08                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.31                      |                         |
| For 40 PSI Compressive Strength, Add  | 0.74                      |                         |
| For 60 PSI Compressive Strength, Add  | 1.19                      |                         |
| For 115 PSI Compressive Strength, Add   | 5.15                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.42                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.46                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0181 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened .....  | 4.04                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.47                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 1.11                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 1.75                      |                         |
| <i>For 100 PSI Compressive Strength, Add</i>  | 2.25                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 7.62                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                                    | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                                   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.30                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |
| 07 22 16 00-0182 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened .....     | 4.66                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.56                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 1.33                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 2.09                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 9.14                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.01                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                                    | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.59                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                                   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.30                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.88                      |                         |
| 07 22 16 00-0183 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened ..... | 5.71                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.73                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 1.73                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 2.70                      |                         |
| <i>For 100 PSI Compressive Strength, Add</i>  | 3.48                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 11.83                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.04                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                                    | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.72                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.71                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                                   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.88                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.06                      |                         |
| 07 22 16 00-0184 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened .....     | 6.25                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.81                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 1.93                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 3.00                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 13.15                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                                    | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.73                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.80                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                                   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.89                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.14                      |                         |
| 07 22 16 00-0185 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened .....     | 7.17                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.95                      |                         |
| <i>For 40 PSI Compressive Strength, Add</i>   | 2.26                      |                         |
| <i>For 60 PSI Compressive Strength, Add</i>   | 3.52                      |                         |
| <i>For 115 PSI Compressive Strength, Add</i>  | 15.44                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.71                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.09                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                                    | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.53                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.91                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                                   | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.80                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.37                      |                         |
| <b>07 22 16 00-0186 Mechanically Fastened, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0143)</b>       |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 22 16 00-0187 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened .....        | 2.66                      |                         |
| <i>For Foil Facer, Add</i>  | 0.36                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.16                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>   | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>                                    | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.42                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>                                   | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.46                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0188 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened .....      | 2.78                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.17                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.42                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.46                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0189 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened .....  | 3.04                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.19                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.62                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.90                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.20                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.34                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.30                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0190 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened .....     | 3.49                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.23                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.62                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.01                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.90                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.20                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.59                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.34                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.30                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.88                      |                         |
| 07 22 16 00-0191 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened ..... | 4.03                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.29                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.67                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.04                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.72                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.71                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.88                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.06                      |                         |
| 07 22 16 00-0192 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened .....     | 4.49                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.33                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.67                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.10                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.73                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.80                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.89                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.14                      |                         |
| 07 22 16 00-0193 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened ..... | 5.13                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.39                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.71                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.02                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.53                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 3.23                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.80                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.66                      |                         |
| 07 22 16 00-0194 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened .....     | 5.58                      |                         |
| For Foil Facer, Add   | 0.36                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.44                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.71                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.09                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.53                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.91                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.80                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 4.37                      |                         |

07 22 16 00-0195 Mechanically Fastened, High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0143)

Note: Mechanically fastened to wood or steel.



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0196 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Mechanically Fastened.....  | 3.04                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| <br>  |                           |                         |
| <b>07 22 16 00-0197 Mechanically Fastened, Gypsum-Fiber, Roof Board Insulation (USG Securock)</b> <small>(07 22 16 00-0143)</small> |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 22 16 00-0198 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....         | 2.87                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0199 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....         | 3.06                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0200 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....         | 3.18                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0201 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....         | 3.25                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| <br>  |                           |                         |
| <b>07 22 16 00-0202 Mechanically Fastened, Glass-Mat, Roof Board Insulation (USG Securock)</b> <small>(07 22 16 00-0143)</small>    |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| 07 22 16 00-0203 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....        | 2.81                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0204 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....        | 3.09                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0205 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....        | 3.15                      |                         |
| For Mechanically Fastened To Concrete, Add  | 1.57                      |                         |
| For Mechanically Fastened To Gypsum, Add  | 2.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add  | 0.72                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add   | 2.47                      |                         |
| For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add   | 1.09                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add  | 3.51                      |                         |
| For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |



**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |  |      |
|------------------|--|------|
| 07 22 16 00-0206 | <b>Mechanically Fastened, Polyisocyanurate And Oriented Strand Board,<br/>Nailbase Roof Board Insulation</b> <small>(07 22 16 00-0143)</small><br>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel. |      |
| 07 22 16 00-0207 | SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....  | 5.11 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.59 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.30 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.88 |
| 07 22 16 00-0208 | SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....  | 5.37 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.01 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.59 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.30 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.88 |
| 07 22 16 00-0209 | SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....   | 5.82 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.04 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.90 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.71 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.06 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.06 |
| 07 22 16 00-0210 | SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....   | 6.05 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.10 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.91 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.80 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.07 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14 |
| 07 22 16 00-0211 | SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....   | 6.72 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.02 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.42 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.85 |
| 07 22 16 00-0212 | SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....   | 6.94 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.09 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.91 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.37 |
| 07 22 16 00-0213 | SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....   | 7.48 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76 |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.06 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.70 |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15 |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15 |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.23 |

07 22 16 00-0214 **Mechanically Fastened, Polyisocyanurate And Oriented Strand Board With  
Air Vent Spacer Strips, Nailbase Roof Board Insulation** (07 22 16 00-0143)

Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0215 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....  | 5.25                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.89                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.71                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.05                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.06                      |                         |
| 07 22 16 00-0216 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....  | 5.71                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.90                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.80                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.06                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |
| 07 22 16 00-0217 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....   | 6.42                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.02                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.40                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.83                      |                         |
| 07 22 16 00-0218 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....   | 6.79                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.09                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.91                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.37                      |                         |
| 07 22 16 00-0219 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....   | 7.43                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.65                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.18                      |                         |
| 07 22 16 00-0220 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....   | 7.93                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.66                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.19                      |                         |
| 07 22 16 00-0221 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board<br>Insulation, Mechanically Fastened.....   | 9.11                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.03                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.10                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.95                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.63                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.64                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.60                      |                         |
| <b>07 22 16 00-0222 Rigid Board Tapered Roofing Insulation (07 22 16)</b>  |                           |                         |
| Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or cover board. See CSI section 07 22 16 00-0466 for demolition of insulation board. |                           |                         |
| <b>07 22 16 00-0223 Cold Adhesive Applied Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)</b>  |                           |                         |
| <b>07 22 16 00-0224 Cold Adhesive Applied, Tapered Polyisocyanurate Board (07 22 16 00-0223)</b>   |                           |                         |
| Note: Includes polyurethane adhesive.  |                           |                         |
| <b>07 22 16 00-0225 Cold Adhesive Applied, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)</b>   |                           |                         |
| 07 22 16 00-0226 SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied .....  | 5.05                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>  | 0.34                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0227 SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 7.00                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.40                      |                         |
| 07 22 16 00-0228 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 7.60                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.46                      |                         |
| 07 22 16 00-0229 SF 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 8.20                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.52                      |                         |
| 07 22 16 00-0230 SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 8.80                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.58                      |                         |
| 07 22 16 00-0231 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 10.75                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.64                      |                         |
| 07 22 16 00-0232 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 11.35                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.70                      |                         |
| 07 22 16 00-0233 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 11.95                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.76                      |                         |
| 07 22 16 00-0234 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 12.55                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.82                      |                         |
| 07 22 16 00-0235 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....            | 14.50                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.88                      |                         |
| <b>07 22 16 00-0236 Cold Adhesive Applied, 1/4" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0224)  |                           |                         |
| 07 22 16 00-0237 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....               | 4.75                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.31                      |                         |
| 07 22 16 00-0238 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....               | 7.30                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.43                      |                         |
| 07 22 16 00-0239 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....               | 8.50                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.55                      |                         |
| 07 22 16 00-0240 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....               | 11.05                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.67                      |                         |
| 07 22 16 00-0241 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....               | 12.25                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.79                      |                         |
| 07 22 16 00-0242 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....               | 14.80                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.91                      |                         |
| <b>07 22 16 00-0243 Cold Adhesive Applied, 1/2" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0224)  |                           |                         |
| 07 22 16 00-0244 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....             | 7.90                      |                         |
| For 25 PSI Compressive Strength, Add  | 0.49                      |                         |
| 07 22 16 00-0245 SF 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....             | 11.65                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.73                      |                         |
| 07 22 16 00-0246 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....             | 15.40                     |                         |
| For 25 PSI Compressive Strength, Add  | 0.97                      |                         |
| 07 22 16 00-0247 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....             | 19.15                     |                         |
| For 25 PSI Compressive Strength, Add  | 1.22                      |                         |
| <b>07 22 16 00-0248 Cold Adhesive Applied, Tapered Expanded Polystyrene Board (EPS)</b> (07 22 16 00-0223)  |                           |                         |
| Note: Includes polyurethane adhesive.   |                           |                         |
| <b>07 22 16 00-0249 Cold Adhesive Applied, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS)</b> (07 22 16 00-0248)                                |                           |                         |
| 07 22 16 00-0250 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied..... | 4.38                      |                         |
| 07 22 16 00-0251 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied..... | 6.33                      |                         |
| 07 22 16 00-0252 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied..... | 6.78                      |                         |
| 07 22 16 00-0253 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied..... | 7.23                      |                         |
| 07 22 16 00-0254 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied..... | 7.68                      |                         |
| 07 22 16 00-0255 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied..... | 9.64                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0256 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied .....   | 10.09                     |                         |
| 07 22 16 00-0257 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied .....   | 10.54                     |                         |
| 07 22 16 00-0258 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied .....   | 10.99                     |                         |
| 07 22 16 00-0259 SF 6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied .....   | 12.95                     |                         |
| <b>07 22 16 00-0260 Cold Adhesive Applied, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0248)</b>                                   |                           |                         |
| 07 22 16 00-0261 SF 2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....           | 4.15                      |                         |
| 07 22 16 00-0262 SF 3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....        | 6.55                      |                         |
| 07 22 16 00-0263 SF 4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....          | 7.46                      |                         |
| 07 22 16 00-0264 SF 5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....        | 9.87                      |                         |
| 07 22 16 00-0265 SF 6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....          | 10.77                     |                         |
| 07 22 16 00-0266 SF 7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....        | 13.17                     |                         |
| <b>07 22 16 00-0267 Cold Adhesive Applied, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0248)</b>                                   |                           |                         |
| 07 22 16 00-0268 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....     | 7.01                      |                         |
| 07 22 16 00-0269 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....     | 10.32                     |                         |
| 07 22 16 00-0270 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....     | 13.62                     |                         |
| 07 22 16 00-0271 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....     | 17.38                     |                         |
| <b>07 22 16 00-0272 Cold Adhesive Applied, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0223)</b>  |                           |                         |
| Note: Includes polyurethane adhesive.  |                           |                         |
| <b>07 22 16 00-0273 Cold Adhesive Applied, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)</b>                                  |                           |                         |
| 07 22 16 00-0274 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 4.92                      |                         |
| 07 22 16 00-0275 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied ..... | 6.86                      |                         |
| 07 22 16 00-0276 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 7.43                      |                         |
| 07 22 16 00-0277 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 8.00                      |                         |
| 07 22 16 00-0278 SF 4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 8.57                      |                         |
| 07 22 16 00-0279 SF 4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 10.53                     |                         |
| 07 22 16 00-0280 SF 5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 11.10                     |                         |
| 07 22 16 00-0281 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 11.67                     |                         |
| 07 22 16 00-0282 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 12.24                     |                         |
| 07 22 16 00-0283 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied .....  | 14.19                     |                         |
| <b>07 22 16 00-0284 Cold Adhesive Applied, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)</b>                                  |                           |                         |
| 07 22 16 00-0285 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....         | 4.63                      |                         |
| 07 22 16 00-0286 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....       | 7.15                      |                         |
| 07 22 16 00-0287 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....         | 8.29                      |                         |
| 07 22 16 00-0288 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....       | 10.81                     |                         |
| 07 22 16 00-0289 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....         | 11.95                     |                         |
| 07 22 16 00-0290 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....       | 14.47                     |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |       |
|------------------|----|---|-------|
| 07 22 16 00-0291 |    | <b>Cold Adhesive Applied, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0272)</small>             |       |
| 07 22 16 00-0292 | SF | 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied..... | 7.72  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i> .....   | 1.67  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> .....  | 2.10  |
| 07 22 16 00-0293 | SF | 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied..... | 11.39 |
| 07 22 16 00-0294 | SF | 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied..... | 15.04 |
| 07 22 16 00-0295 | SF | 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied..... | 18.71 |
| 07 22 16 00-0296 |    | <b>Cold Adhesive Applied, Tapered Perlite Board</b> <small>(07 22 16 00-0223)</small>   |       |
|                  |    | Note: Includes polyurethane adhesive.   |       |
| 07 22 16 00-0297 |    | <b>Cold Adhesive Applied, 1/8" Slope, Tapered Perlite Board</b> <small>(07 22 16 00-0296)</small>                                 |       |
| 07 22 16 00-0298 | SF | 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                     | 7.25  |
| 07 22 16 00-0299 | SF | 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                     | 8.52  |
| 07 22 16 00-0300 | SF | 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                     | 9.76  |
| 07 22 16 00-0301 | SF | 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 10.34 |
| 07 22 16 00-0302 | SF | 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 11.57 |
| 07 22 16 00-0303 | SF | 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 12.84 |
| 07 22 16 00-0304 | SF | 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 14.07 |
| 07 22 16 00-0305 | SF | 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 14.65 |
| 07 22 16 00-0306 | SF | 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 15.88 |
| 07 22 16 00-0307 | SF | 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                    | 17.16 |
| 07 22 16 00-0308 |    | <b>Cold Adhesive Applied, 1/4" Slope, Tapered Perlite Board</b> <small>(07 22 16 00-0296)</small>                                 |       |
| 07 22 16 00-0309 | SF | 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                        | 6.63  |
| 07 22 16 00-0310 | SF | 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                        | 9.14  |
| 07 22 16 00-0311 | SF | 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                       | 10.95 |
| 07 22 16 00-0312 | SF | 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                        | 13.45 |
| 07 22 16 00-0313 | SF | 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                       | 15.27 |
| 07 22 16 00-0314 | SF | 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                       | 17.78 |
| 07 22 16 00-0315 |    | <b>Cold Adhesive Applied, 1/2" Slope, Tapered Perlite Board</b> <small>(07 22 16 00-0296)</small>                                 |       |
| 07 22 16 00-0316 | SF | 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                      | 10.37 |
| 07 22 16 00-0317 | SF | 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                     | 14.68 |
| 07 22 16 00-0318 | SF | 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                     | 19.01 |
| 07 22 16 00-0319 | SF | 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....                     | 23.32 |
| 07 22 16 00-0320 |    | <b>Hot-Mopped Rigid Board Tapered Roofing Insulation</b> <small>(07 22 16 00-0222)</small>  |       |
| 07 22 16 00-0321 |    | <b>Hot-Mopped, Tapered Polyisocyanurate Board</b> <small>(07 22 16 00-0320)</small>   |       |
| 07 22 16 00-0322 |    | <b>Hot-Mopped, 1/8" Slope, Tapered Polyisocyanurate Board</b> <small>(07 22 16 00-0321)</small>                                   |       |
| 07 22 16 00-0323 | SF | 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 4.65  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.30  |
| 07 22 16 00-0324 | SF | 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 6.55  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.32  |
| 07 22 16 00-0325 | SF | 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 7.15  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.38  |
| 07 22 16 00-0326 | SF | 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 7.44  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.44  |
| 07 22 16 00-0327 | SF | 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 8.35  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.50  |
| 07 22 16 00-0328 | SF | 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 10.08 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.53  |
| 07 22 16 00-0329 | SF | 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 10.68 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.59  |
| 07 22 16 00-0330 | SF | 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 11.28 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.65  |
| 07 22 16 00-0331 | SF | 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 11.88 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.71  |
| 07 22 16 00-0332 | SF | 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                       | 13.60 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.74  |
| 07 22 16 00-0333 |    | <b>Hot-Mopped, 1/4" Slope, Tapered Polyisocyanurate Board</b> <small>(07 22 16 00-0321)</small>                                   |       |
| 07 22 16 00-0334 | SF | 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                          | 4.52  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.27  |
| 07 22 16 00-0335 | SF | 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                          | 6.85  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.35  |
| 07 22 16 00-0336 | SF | 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                          | 8.05  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.47  |
| 07 22 16 00-0337 | SF | 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....                          | 10.38 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i> .....   | 0.56  |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 07 22 16 00-0338        | SF    |     |     | 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 11.58<br>0.68          |                      |
| 07 22 16 00-0339        | SF    |     |     | 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 13.90<br>0.77          |                      |
| <b>07 22 16 00-0340</b> |       |     |     | <b>Hot-Mopped, 1/2" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0321)   |                        |                      |
| 07 22 16 00-0341        | SF    |     |     | 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 7.45<br>0.41           |                      |
| 07 22 16 00-0342        | SF    |     |     | 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 10.98<br>0.62          |                      |
| 07 22 16 00-0343        | SF    |     |     | 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 14.50<br>0.83          |                      |
| 07 22 16 00-0344        | SF    |     |     | 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 18.03<br>1.03          |                      |
| <b>07 22 16 00-0345</b> |       |     |     | <b>Hot-Mopped, Tapered Perlite Board</b> (07 22 16 00-0320)  |                        |                      |
| <b>07 22 16 00-0346</b> |       |     |     | <b>Hot-Mopped, 1/8" Slope, Tapered Perlite Board</b> (07 22 16 00-0345)  |                        |                      |
| 07 22 16 00-0347        | SF    |     |     | 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....   | 6.37                   |                      |
| 07 22 16 00-0348        | SF    |     |     | 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....   | 8.07                   |                      |
| 07 22 16 00-0349        | SF    |     |     | 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....   | 9.31                   |                      |
| 07 22 16 00-0350        | SF    |     |     | 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 9.24                   |                      |
| 07 22 16 00-0351        | SF    |     |     | 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 10.48                  |                      |
| 07 22 16 00-0352        | SF    |     |     | 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 12.16                  |                      |
| 07 22 16 00-0353        | SF    |     |     | 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 13.39                  |                      |
| 07 22 16 00-0354        | SF    |     |     | 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 13.33                  |                      |
| 07 22 16 00-0355        | SF    |     |     | 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 14.57                  |                      |
| 07 22 16 00-0356        | SF    |     |     | 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....  | 16.26                  |                      |
| <b>07 22 16 00-0357</b> |       |     |     | <b>Hot-Mopped, 1/4" Slope, Tapered Perlite Board</b> (07 22 16 00-0345)  |                        |                      |
| 07 22 16 00-0358        | SF    |     |     | 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....  | 5.75                   |                      |
| 07 22 16 00-0359        | SF    |     |     | 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....  | 8.69                   |                      |
| 07 22 16 00-0360        | SF    |     |     | 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....   | 9.86                   |                      |
| 07 22 16 00-0361        | SF    |     |     | 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....  | 12.78                  |                      |
| 07 22 16 00-0362        | SF    |     |     | 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....   | 13.95                  |                      |
| 07 22 16 00-0363        | SF    |     |     | 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....   | 16.88                  |                      |
| <b>07 22 16 00-0364</b> |       |     |     | <b>Hot-Mopped, 1/2" Slope, Tapered Perlite Board</b> (07 22 16 00-0345)  |                        |                      |
| 07 22 16 00-0365        | SF    |     |     | 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....  | 9.92                   |                      |
| 07 22 16 00-0366        | SF    |     |     | 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....   | 14.01                  |                      |
| 07 22 16 00-0367        | SF    |     |     | 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....   | 74.24                  |                      |
| 07 22 16 00-0368        | SF    |     |     | 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....   | 22.19                  |                      |
| <b>07 22 16 00-0369</b> |       |     |     | <b>Mechanically Fastened Tapered Roofing Insulation</b> (07 22 16 00-0222)   |                        |                      |
|                         |       |     |     | Note: Mechanically fastened to wood or steel. Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard. |                        |                      |
| <b>07 22 16 00-0370</b> |       |     |     | <b>Mechanically Fastened, Tapered Polyisocyanurate Board</b> (07 22 16 00-0369)  |                        |                      |
|                         |       |     |     | Note: Mechanically fastened to wood or steel.  |                        |                      |
| <b>07 22 16 00-0371</b> |       |     |     | <b>Mechanically Fastened, 1/8" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0370)  |                        |                      |
| 07 22 16 00-0372        | SF    |     |     | 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 4.94<br>0.33           |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 1.98                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.30                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                   |                      |
| 07 22 16 00-0373        | SF    |     |     | 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....<br><i>For 25 PSI Compressive Strength, Add</i>   | 6.33<br>0.33           |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.04                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.34                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.71                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.50                   |                      |
|                         |       |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.06                   |                      |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0374 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 6.93                      |                         |
| For 25 PSI Compressive Strength, Add   | 0.39                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.67                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.10                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.34                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.76                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.50                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.14                      |                         |
| 07 22 16 00-0375 SF 4.25" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 7.68                      |                         |
| For 25 PSI Compressive Strength, Add   | 0.47                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.71                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.02                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.53                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.84                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.80                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.27                      |                         |
| 07 22 16 00-0376 SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 8.28                      |                         |
| For 25 PSI Compressive Strength, Add   | 0.53                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.71                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.09                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.53                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.91                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.80                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.37                      |                         |
| 07 22 16 00-0377 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 9.78                      |                         |
| For 25 PSI Compressive Strength, Add   | 0.55                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.06                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.43                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.15                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.15                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.60                      |                         |
| 07 22 16 00-0378 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 10.38                     |                         |
| For 25 PSI Compressive Strength, Add   | 0.61                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.06                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.43                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.15                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.15                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.60                      |                         |
| 07 22 16 00-0379 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 11.26                     |                         |
| For 25 PSI Compressive Strength, Add   | 0.69                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |
| 07 22 16 00-0380 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened..... | 11.86                     |                         |
| For 25 PSI Compressive Strength, Add   | 0.75                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0381 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened ..... | 13.45                     |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.78                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.54                      |                         |
| <b>07 22 16 00-0382 Mechanically Fastened, 1/4" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0370)                                |                           |                         |
| 07 22 16 00-0383 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....    | 4.64                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.30                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 1.98                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.30                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 22 16 00-0384 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....    | 6.63                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.36                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.71                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.06                      |                         |
| 07 22 16 00-0385 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....    | 7.98                      |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.50                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.71                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.02                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.53                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.84                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.80                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.27                      |                         |
| 07 22 16 00-0386 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....    | 10.08                     |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.58                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.60                      |                         |
| 07 22 16 00-0387 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....    | 11.56                     |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.03                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.10                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.32                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.63                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.64                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.97                      |                         |
| 07 22 16 00-0388 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened .....    | 13.75                     |                         |
| <i>For 25 PSI Compressive Strength, Add</i>   | 0.81                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.54                      |                         |
| <b>07 22 16 00-0389 Mechanically Fastened, 1/2" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0370)                                |                           |                         |



**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |       |
|------------------|----|---|-------|
| 07 22 16 00-0390 | SF | 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....             | 7.23  |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i>   | 0.42  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.10  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.76  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 4.14  |
| 07 22 16 00-0391 | SF | 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....             | 10.30 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i>   | 0.60  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.06  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.43  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.76  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 3.07  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.15  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.15  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 4.60  |
| 07 22 16 00-0392 | SF | 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....             | 14.35 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i>   | 0.87  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.13  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.04  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.38  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 3.70  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 3.05  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 5.06  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 5.54  |
| 07 22 16 00-0393 | SF | 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....             | 18.24 |
|                  |    | <i>For 25 PSI Compressive Strength, Add</i>   | 1.12  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 2.30  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.85  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 4.65  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 4.29  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 6.98  |
| 07 22 16 00-0394 |    | <b>Mechanically Fastened, Tapered Expanded Polystyrene Board (EPS)</b> <small>(07 22 16 00-0369)</small>                          |       |
|                  |    | Note: Mechanically fastened to wood or steel.   |       |
| 07 22 16 00-0395 |    | <b>Mechanically Fastened, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS)</b> <small>(07 22 16 00-0394)</small>              |       |
| 07 22 16 00-0396 | SF | 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 4.26  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 1.98  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.56  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.30  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 3.84  |
| 07 22 16 00-0397 | SF | 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 5.67  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.04  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.71  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 4.06  |
| 07 22 16 00-0398 | SF | 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 6.12  |
|                  |    | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.10  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                                | 2.76  |
|                  |    | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53  |
|                  |    | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50  |
|                  |    | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                               | 4.14  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0399 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 6.72                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.02                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.84                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.27                      |                         |
| 07 22 16 00-0400 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 7.17                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.09                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.91                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.37                      |                         |
| 07 22 16 00-0401 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 8.67                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.60                      |                         |
| 07 22 16 00-0402 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 9.12                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.60                      |                         |
| 07 22 16 00-0403 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 9.85                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.03                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.10                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.32                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.63                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.64                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.97                      |                         |
| 07 22 16 00-0404 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 10.30                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.03                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.10                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.32                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.63                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.64                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.97                      |                         |
| 07 22 16 00-0405 SF 6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened..... | 11.90                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 5.54                      |                         |
| <b>07 22 16 00-0406 Mechanically Fastened, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS)</b> <small>(07 22 16 00-0394)</small>                    |                           |                         |
| 07 22 16 00-0407 SF 2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS),<br>Mechanically Fastened.....        | 4.04                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.62                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 1.98                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.20                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.30                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 3.84                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |   |       |  |
|------------------|----|--|---|-------|--|
| 07 22 16 00-0408 | SF |  | 3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 5.89  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.04  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                            | 2.71  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                           | 4.06  |  |
| 07 22 16 00-0409 | SF |  | 4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....   | 6.94  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.71  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.02  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.21  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.53  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                            | 2.84  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.81  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.80  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                           | 4.27  |  |
| 07 22 16 00-0410 | SF |  | 5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 8.89  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.06  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.43  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.76  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                            | 3.07  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.15  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.15  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                           | 4.60  |  |
| 07 22 16 00-0411 | SF |  | 6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....   | 10.08 |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.03  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.76  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.10  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                            | 3.32  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.63  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.64  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                           | 4.97  |  |
| 07 22 16 00-0412 | SF |  | 7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 12.12 |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.13  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.04  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.38  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                            | 3.70  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 3.05  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 5.06  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                           | 5.54  |  |

**07 22 16 00-0413 Mechanically Fastened, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS)** (07 22 16 00-0394)

|                  |    |  |  |       |  |
|------------------|----|--|--|-------|--|
| 07 22 16 00-0414 | SF |  | 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 6.34  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.10  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.34  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                               | 2.76  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.50  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                              | 4.14  |  |
| 07 22 16 00-0415 | SF |  | 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 9.34  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.06  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                               | 3.07  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                              | 4.60  |  |
| 07 22 16 00-0416 | SF |  | 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened..... | 12.57 |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.13  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 2.04  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.38  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>                               | 3.70  |  |
|                  |    |  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 3.05  |  |
|                  |    |  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 5.06  |  |
|                  |    |  | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>                              | 5.54  |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0417 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....    | 16.47                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 2.30                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.85                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 4.65                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 4.29                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 6.98                      |                         |
| <b>07 22 16 00-0418 Mechanically Fastened, Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0369)</small>                              |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| <b>07 22 16 00-0419 Mechanically Fastened, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0418)</small>                  |                           |                         |
| 07 22 16 00-0420 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....  | 4.80                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 1.98                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.30                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 22 16 00-0421 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 6.20                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.71                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.06                      |                         |
| 07 22 16 00-0422 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....  | 8.10                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |
| 07 22 16 00-0423 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....  | 7.49                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.71                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.02                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.53                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.84                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.80                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.27                      |                         |
| 07 22 16 00-0424 SF 4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....  | 8.06                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.71                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.09                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.53                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.91                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.80                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.37                      |                         |
| 07 22 16 00-0425 SF 4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....  | 9.56                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.60                      |                         |
| 07 22 16 00-0426 SF 5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....  | 10.13                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.60                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0427 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 10.98                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |
| 07 22 16 00-0428 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 11.55                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |
| 07 22 16 00-0429 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 13.14                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.13                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 2.04                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.38                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.70                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 3.05                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 5.06                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 5.54                      |                         |
| <b>07 22 16 00-0430 Mechanically Fastened, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0418)</b>                                |                           |                         |
| 07 22 16 00-0431 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....       | 4.52                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.62                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 1.98                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 0.90                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.20                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.34                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.30                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0432 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....     | 6.48                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.67                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.04                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.34                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.71                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.50                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.06                      |                         |
| 07 22 16 00-0433 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....       | 7.77                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.71                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.02                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.53                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.84                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.80                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.27                      |                         |
| 07 22 16 00-0434 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....     | 9.84                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.06                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.43                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.15                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.15                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.60                      |                         |
| 07 22 16 00-0435 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....       | 11.27                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 22 16 00-0436 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....    | 13.42                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.54                      |                         |
| <b>07 22 16 00-0437 Mechanically Fastened, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0418)</b>                               |                           |                         |
| 07 22 16 00-0438 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 7.05                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |
| 07 22 16 00-0439 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 10.41                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.60                      |                         |
| 07 22 16 00-0440 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 13.99                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 5.54                      |                         |
| 07 22 16 00-0441 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened..... | 17.55                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 2.30                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 2.85                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 4.65                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 4.29                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 6.98                      |                         |
| <b>07 22 16 00-0442 Mechanically Fastened, Tapered Perlite Board (07 22 16 00-0369)</b>   |                           |                         |
| Note: Mechanically fastened to wood or steel.   |                           |                         |
| <b>07 22 16 00-0443 Mechanically Fastened, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0442)</b>   |                           |                         |
| 07 22 16 00-0444 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....                     | 6.49                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.62                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 1.98                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 0.90                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.20                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.34                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.30                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 22 16 00-0445 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....                     | 7.86                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.04                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.71                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.06                      |                         |
| 07 22 16 00-0446 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....                     | 9.09                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>   | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>  | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>  | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>   | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>   | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>  | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 4.14                      |                         |

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0447 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 9.18                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.71                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.02                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.53                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.84                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.80                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.27                      |                         |
| 07 22 16 00-0448 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 10.41                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.71                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.09                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.21                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.53                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.91                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.81                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.80                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.37                      |                         |
| 07 22 16 00-0449 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 11.86                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.06                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.43                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.15                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.15                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.60                      |                         |
| 07 22 16 00-0450 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 13.10                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.06                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.43                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.76                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.07                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.15                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.15                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.60                      |                         |
| 07 22 16 00-0451 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 13.32                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |
| 07 22 16 00-0452 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 14.55                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.03                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.76                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.10                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.32                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 2.63                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 4.64                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.97                      |                         |
| 07 22 16 00-0453 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened..... | 16.11                     |                         |
| For Mechanically Fastened To Concrete, Add   | 1.81                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.13                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 2.04                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 3.38                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 3.70                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 3.05                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 5.06                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 5.54                      |                         |
| <b>07 22 16 00-0454 Mechanically Fastened, 1/4" Slope, Tapered Perlite Board (07 22 16 00-0442)</b>                                |                           |                         |
| 07 22 16 00-0455 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....     | 5.88                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.62                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 1.98                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 0.90                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.20                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.56                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.34                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.30                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 3.84                      |                         |
| 07 22 16 00-0456 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....     | 8.48                      |                         |
| For Mechanically Fastened To Concrete, Add   | 1.67                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add  | 2.04                      |                         |
| For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add   | 1.02                      |                         |
| For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add  | 2.34                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add   | 2.71                      |                         |
| For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add  | 1.53                      |                         |
| For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add   | 3.50                      |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add  | 4.06                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 22 16 00-0457 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....  | 9.80                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.71                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.02                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.21                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.53                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.84                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.80                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.27                      |                         |
| 07 22 16 00-0458 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....   | 12.48                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.60                      |                         |
| 07 22 16 00-0459 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....  | 13.93                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.03                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.76                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.10                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.32                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.63                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.64                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.97                      |                         |
| 07 22 16 00-0460 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....  | 16.73                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 5.54                      |                         |
| <b>07 22 16 00-0461 Mechanically Fastened, 1/2" Slope, Tapered Perlite Board (07 22 16 00-0442)</b>  |                           |                         |
| 07 22 16 00-0462 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....   | 9.71                      |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.67                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.10                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.02                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.34                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 2.76                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.53                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.50                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.14                      |                         |
| 07 22 16 00-0463 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....  | 13.71                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.06                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 1.43                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.76                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 2.15                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.15                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 4.60                      |                         |
| 07 22 16 00-0464 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....  | 17.96                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.81                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>   | 2.13                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 2.04                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 3.38                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 3.05                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 5.06                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 5.54                      |                         |
| 07 22 16 00-0465 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....  | 22.41                     |                         |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 2.30                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 2.85                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 4.65                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;90 To 120 MPH Wind, Add</i>   | 3.70                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 4.29                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 6.98                      |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, &gt;120 To 135 MPH Wind, Add</i>  | 5.54                      |                         |
| <b>07 22 16 00-0466 Demolish Rigid Board Roofing Insulation (07 22 16)</b>   |                           |                         |
| Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). |                           |                         |
| 07 22 16 00-0467 SF Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation .....  | 0.62                      |                         |
| 07 22 16 00-0468 SF Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation .....   | 0.64                      |                         |
| 07 22 16 00-0469 SF Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation .....   | 0.65                      |                         |
| 07 22 16 00-0470 SF Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation .....   | 0.68                      |                         |
| 07 22 16 00-0471 SF Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation .....   | 0.69                      |                         |
| 07 22 16 00-0472 SF Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation .....   | 0.71                      |                         |



**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |      |  |
|------------------|----|---|------|--|
| 07 22 16 00-0473 | SF | Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation .....  | 0.72 |  |
| 07 22 16 00-0474 | SF | Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation .....  | 0.74 |  |
| 07 22 16 00-0475 | SF | Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation .....  | 0.76 |  |
| 07 22 16 00-0476 | SF | Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation .....  | 0.78 |  |
| 07 22 16 00-0477 | SF | Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation ..... | 0.80 |  |
| 07 22 16 00-0478 | SF | Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation..... | 0.81 |  |
| 07 22 16 00-0479 | SF | Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation..... | 0.83 |  |

**07 25 Weather Barriers** (07)**07 26 Vapor Retarders** (07 25)**07 26 13 Above-Grade Vapor Retarders** (07 26)

|                  |     |   |        |  |
|------------------|-----|---|--------|--|
| 07 26 13 00-0001 | CSF | Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B).....                               | 33.85  |  |
| 07 26 13 00-0002 | CSF | Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Jumbo Tex).....   | 31.60  |  |
| 07 26 13 00-0003 | CSF | 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Super Jumbo Tex 60 Minute) .....                | 38.80  |  |
| 07 26 13 00-0004 | CSF | Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Two Ply Super Jumbo Tex 60 Minute)..... | 49.38  |  |
| 07 26 13 00-0005 | CSF | Regular Weight Red Rosin Sized Sheathing .....  | 29.29  |  |
| 07 26 13 00-0006 | CLF | 6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper).....                  | 98.86  |  |
| 07 26 13 00-0007 | CLF | 4" Wide Self Adhering Butyl Sealing Tape.....   | 146.65 |  |
| 07 26 13 00-0008 | CLF | 6" Wide Self Adhesive Butyl Sealing Tape .....  | 209.56 |  |
| 07 26 13 00-0009 | CLF | 9" Wide Self Adhesive Butyl Sealing Tape .....  | 288.47 |  |
| 07 26 13 00-0010 | CSF | Building Wrap (Tyvek).....  | 86.08  |  |

**07 27 Air Barriers** (07 25)**07 27 23 Board Product Air Barriers** (07 27)**07 27 23 00-0001 Barriers For Plenums** (07 27 23)

|                  |    |  |       |      |
|------------------|----|--|-------|------|
| 07 27 23 00-0002 | SF | 0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 LB/SF .....                       | 13.80 | 3.81 |
|                  |    | <i>For Up To 50, Add</i>   | 5.06  |      |
|                  |    | <i>For &gt;50 To 200, Add</i>  | 2.87  |      |
|                  |    | <i>For &gt;200 To 500, Add</i>   | 1.06  |      |
|                  |    | <i>For &gt;2,500, Deduct</i>   | -0.69 |      |
| 07 27 23 00-0003 | SF | 0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 LB/SF .....                     | 14.94 | 3.81 |
|                  |    | <i>For Up To 50, Add</i>   | 5.52  |      |
|                  |    | <i>For &gt;50 To 200, Add</i>  | 3.13  |      |
|                  |    | <i>For &gt;200 To 500, Add</i>   | 1.16  |      |
|                  |    | <i>For &gt;2,500, Deduct</i>   | -0.75 |      |
| 07 27 23 00-0004 | SF | Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick.....      | 5.45  | 2.54 |
|                  |    | <i>For Up To 50, Add</i>   | 2.67  |      |
|                  |    | <i>For &gt;50 To 200, Add</i>  | 1.47  |      |
|                  |    | <i>For &gt;200 To 500, Add</i>   | 0.50  |      |
|                  |    | <i>For &gt;2,500, Deduct</i>   | -0.27 |      |
| 07 27 23 00-0005 | SF | Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick..... | 9.95  | 3.81 |
|                  |    | <i>For Up To 50, Add</i>   | 4.77  |      |
|                  |    | <i>For &gt;50 To 200, Add</i>  | 2.64  |      |
|                  |    | <i>For &gt;200 To 500, Add</i>   | 0.91  |      |
|                  |    | <i>For &gt;2,500, Deduct</i>   | -0.50 |      |
| 07 27 23 00-0006 | SF | Aluminum Mesh Barrier For Plenum Kraft Paper Backed.....                               | 6.86  | 2.54 |
|                  |    | <i>For Up To 50, Add</i>   | 2.88  |      |
|                  |    | <i>For &gt;50 To 200, Add</i>  | 1.61  |      |
|                  |    | <i>For &gt;200 To 500, Add</i>   | 0.57  |      |
|                  |    | <i>For &gt;2,500, Deduct</i>   | -0.34 |      |
| 07 27 23 00-0007 | SF | 1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF.....                                 | 10.51 | 2.54 |
|                  |    | <i>For Up To 50, Add</i>   | 3.27  |      |
|                  |    | <i>For &gt;50 To 200, Add</i>  | 1.90  |      |
|                  |    | <i>For &gt;200 To 500, Add</i>   | 0.74  |      |
|                  |    | <i>For &gt;2,500, Deduct</i>   | -0.53 |      |

**07 27 23 00-0008 Under Slab Insulation, Extruded Polystyrene (XPS) Sheets** (07 27 23)

|                  |    |  |      |  |
|------------------|----|--|------|--|
| 07 27 23 00-0009 | SF | 1" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation ..... | 2.41 |  |
| 07 27 23 00-0010 | SF | 2" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation ..... | 3.69 |  |
| 07 27 23 00-0011 | SF | 3" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation ..... | 4.85 |  |
| 07 27 23 00-0012 | SF | 4" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation ..... | 5.98 |  |

**07 40 Roofing and Siding Panels** (07)**07 41 Roof Panels** (07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

**07 41 13 Metal Roof Panels** (07 41)**07 41 13 00-0001 Exposed Fastener Metal Roofing** (07 41 13)

Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.

**07 41 13 00-0002 Galvanized Exposed Fastener Metal Roofing** (07 41 13 00-0001)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>07 41 13 00-0003 Galvanized Steel Exposed Fastener Metal Roof Panels</b> <small>(07 41 13 00-0002)</small>  |                           |                         |
| 07 41 13 00-0004 SF 18 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 9.20                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0005 SF 20 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 8.49                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0006 SF 22 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 7.99                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0007 SF 24 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 7.50                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0008 SF 26 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 7.09                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0009 SF 28 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 6.74                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0010 SF 30 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....         | 6.60                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| <b>07 41 13 00-0011 Galvanized Exposed Fastener Metal Roof Accessories</b> <small>(07 41 13 00-0002)</small>   |                           |                         |
| See CSI section 07 41 13 00-0038 for accessories.  |                           |                         |
| 07 41 13 00-0012 LF Ridge Flashing For Galvanized Steel Exposed Fastener Roofing.....                          | 29.56                     | 3.36                    |
| For Steep Roof, Over 7 To 12, Add  | 4.34                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.60                      |                         |
| 07 41 13 00-0013 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Exposed Fastener Roofing..... | 18.53                     | 2.20                    |
| For Steep Roof, Over 7 To 12, Add  | 2.89                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 0.95                      |                         |
| 07 41 13 00-0014 LF Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....                         | 35.85                     | 3.36                    |
| For Steep Roof, Over 7 To 12, Add  | 4.34                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 2.23                      |                         |
| 07 41 13 00-0015 LF Hip Flashing For Galvanized Steel Exposed Fastener Roofing.....                            | 30.14                     | 3.36                    |
| For Steep Roof, Over 7 To 12, Add  | 4.34                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.66                      |                         |
| <b>07 41 13 00-0016 Aluminum Exposed Fastener Metal Roofing</b> <small>(07 41 13 00-0001)</small>              |                           |                         |
| <b>07 41 13 00-0017 Aluminum Exposed Fastener Metal Roof Panels</b> <small>(07 41 13 00-0016)</small>          |                           |                         |
| 07 41 13 00-0018 SF 0.0155", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....            | 6.74                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0019 SF 0.018", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....             | 7.00                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0020 SF 0.024", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....             | 7.61                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0021 SF 0.032", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....             | 8.42                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0022 SF 0.040", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....             | 9.23                      | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| 07 41 13 00-0023 SF 0.050", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....             | 10.24                     | 3.22                    |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.31                      |                         |
| For Steep Roof, Over 7 To 12, Add  | 1.65                      |                         |
| <b>07 41 13 00-0024 Aluminum Exposed Fastener Metal Roof Accessories</b> <small>(07 41 13 00-0016)</small>     |                           |                         |
| 07 41 13 00-0025 LF Ridge Flashing For Aluminum Exposed Fastener Metal Roofing.....                            | 33.42                     | 3.36                    |
| For Steep Roof, Over 7 To 12, Add  | 4.34                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.99                      |                         |
| 07 41 13 00-0026 LF 9" To 12" Girth, Eave Or Gable Flashing For Aluminum Exposed Fastener Metal Roofing.....   | 20.75                     | 2.33                    |
| For Steep Roof, Over 7 To 12, Add  | 2.89                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 1.17                      |                         |
| 07 41 13 00-0027 LF Valley Flashing For Aluminum Exposed Fastener Metal Roofing.....                           | 41.28                     | 3.36                    |
| For Steep Roof, Over 7 To 12, Add  | 4.34                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 2.77                      |                         |
| 07 41 13 00-0028 LF Hip Flashing For Aluminum Exposed Fastener Metal Roofing.....                              | 34.14                     | 3.36                    |
| For Steep Roof, Over 7 To 12, Add  | 4.34                      |                         |
| For Fluoropolymer (Kynar®) Coating, Add  | 2.06                      |                         |

**07 Thermal And Moisture Protection****07 40 Roofing and Siding Panels****07 41 Roof Panels**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 07 41 13 00-0029 |     |     | <b>Standing Seam Roofs</b> <small>(07 41 13)</small><br>Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty. |                        |                      |
| 07 41 13 00-0030 |     |     | <b>Galvanized Steel Standing Seam Concealed Fastener Roofing</b> <small>(07 41 13 00-0029)</small><br>Note: All steel is galvanized G90 rated or galvalume®. Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.  |                        |                      |
| 07 41 13 00-0031 |     |     | <b>Galvanized Steel Standing Seam Concealed Fastener Roofing</b> <small>(07 41 13 00-0030)</small>  |                        |                      |
| 07 41 13 00-0032 | SF  |     | Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 14.13  | 14.13                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 1.97  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.83  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.53  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.12   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.35  |                        |                      |
| 07 41 13 00-0033 | SF  |     | Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 14.82  | 14.82                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 2.01  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.84  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.71  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.22   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.37  |                        |                      |
| 07 41 13 00-0034 | SF  |     | Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 13.53   | 13.53                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 1.94  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.82  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.38  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.03   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.34  |                        |                      |
| 07 41 13 00-0035 | SF  |     | Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 13.77   | 13.77                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 1.95  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.82  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.44  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.07   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.34  |                        |                      |
| 07 41 13 00-0036 | SF  |     | Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 14.04   | 14.04                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 1.97  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.83  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.51  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.11   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.35  |                        |                      |
| 07 41 13 00-0037 | SF  |     | Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 15.04   | 15.04                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 2.02  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.85  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.76  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.26   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.38  |                        |                      |
| 07 41 13 00-0038 |     |     | <b>Accessories For Galvanized Steel Standing Seam Roofing</b> <small>(07 41 13 00-0030)</small>   |                        |                      |
| 07 41 13 00-0039 | LF  |     | Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 31.16  | 31.16                  | 3.36                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 4.07   |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 1.71  |                        |                      |
| 07 41 13 00-0040 | LF  |     | 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 19.48   | 19.48                  | 2.33                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.71   |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 1.11  |                        |                      |
| 07 41 13 00-0041 | LF  |     | Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 38.08   | 38.08                  | 3.36                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 4.07   |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 1.85  |                        |                      |
| 07 41 13 00-0042 | LF  |     | Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing ..... 31.79  | 31.79                  | 3.36                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 4.07   |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 1.72  |                        |                      |
| 07 41 13 00-0043 |     |     | <b>Aluminum Standing Seam Concealed Fastener Roofing</b> <small>(07 41 13 00-0029)</small><br>Note: Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.   |                        |                      |
| 07 41 13 00-0044 |     |     | <b>Aluminum Standing Seam Concealed Fastener Roofing</b> <small>(07 41 13 00-0043)</small>  |                        |                      |
| 07 41 13 00-0045 | SF  |     | Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing ..... 14.61  | 14.61                  | 3.43                 |
|                  |     |     | <i>For Steep Roof, Over 6 To 12, Add</i> 2.05   |                        |                      |
|                  |     |     | <i>For Panels &lt;16" Wide, Add</i> 2.00  |                        |                      |
|                  |     |     | <i>For 140 MPH Wind Load, Add</i> 0.84  |                        |                      |
|                  |     |     | <i>For Up To 1,500, Add</i> 3.65  |                        |                      |
|                  |     |     | <i>For &gt;1,500 To 5,000, Add</i> 2.19   |                        |                      |
|                  |     |     | <i>For &gt;5,000 To 10,000, Add</i> 0.37  |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 41 13 00-0046 SF Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing.....                                | 15.20                     | 3.43                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.05                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 2.03                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 0.85                      |                         |
| <i>For Up To 1,500, Add</i>  | 3.80                      |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 2.28                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 0.38                      |                         |
| 07 41 13 00-0047 SF Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing .....      | 14.28                     | 3.43                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.05                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 1.98                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 0.83                      |                         |
| <i>For Up To 1,500, Add</i>  | 3.57                      |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 2.14                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 0.36                      |                         |
| 07 41 13 00-0048 SF Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing .....      | 15.36                     | 3.43                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.05                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 2.03                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 0.85                      |                         |
| <i>For Up To 1,500, Add</i>  | 3.84                      |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 2.30                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 0.38                      |                         |
| <b>07 41 13 00-0049 Accessories For Aluminum Standing Seam Roofing (07 41 13 00-0043)</b>                                      |                           |                         |
| 07 41 13 00-0050 LF Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....                                  | 35.40                     | 3.36                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 4.07                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.79                      |                         |
| 07 41 13 00-0051 LF 9" To 12" Girth, Eave Or Gable Flashing For Aluminum Standing Seam Concealed Fastener Roofing .....        | 21.92                     | 2.33                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.71                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.16                      |                         |
| 07 41 13 00-0052 LF Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing .....                                | 44.05                     | 3.36                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 4.07                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.97                      |                         |
| 07 41 13 00-0053 LF Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....                                    | 36.19                     | 3.36                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 4.07                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.81                      |                         |
| <b>07 41 13 00-0054 Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)</b>                            |                           |                         |
| <b>07 41 13 00-0055 Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)</b>                            |                           |                         |
| 07 41 13 00-0056 SF Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing .....                 | 27.05                     | 4.11                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 3.08                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 3.25                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.36                      |                         |
| <i>For Up To 1,500, Add</i>  | 6.76                      |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 4.06                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 0.68                      |                         |
| 07 41 13 00-0057 SF Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing .....                 | 30.62                     | 4.11                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 3.08                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 3.43                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.43                      |                         |
| <i>For Up To 1,500, Add</i>  | 7.66                      |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 4.59                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 0.77                      |                         |
| 07 41 13 00-0058 SF Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing .....                 | 34.85                     | 4.11                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 3.08                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 3.64                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.52                      |                         |
| <i>For Up To 1,500, Add</i>  | 8.71                      |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 5.23                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 0.87                      |                         |
| 07 41 13 00-0059 SF Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing .....                 | 40.28                     | 4.11                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 3.08                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 3.91                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.63                      |                         |
| <i>For Up To 1,500, Add</i>  | 10.07                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 6.04                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.01                      |                         |
| <b>07 41 13 00-0060 Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)</b>            |                           |                         |
| 07 41 13 00-0061 LF Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....                           | 80.51                     | 3.75                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 4.49                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 2.81                      |                         |
| 07 41 13 00-0062 LF 9" To 12" Girth, Eave Or Gable Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing ..... | 43.73                     | 2.46                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.98                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.67                      |                         |
| 07 41 13 00-0063 LF Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....                          | 110.38                    | 3.75                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 4.46                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 3.40                      |                         |
| 07 41 13 00-0064 LF Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....                             | 82.88                     | 3.75                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 4.49                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 2.86                      |                         |

**07 Thermal And Moisture Protection****07 40 Roofing and Siding Panels****07 41 Roof Panels**

| MINOR              | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--------------------|-----|-----|---|------------------------|----------------------|
| 07 41 13 00-0065   |     |     | <b>Metal Roof Surfacing</b> (07 41 13)  |                        |                      |
| 07 41 13 00-0066   | SF  |     | Acrylic, Metal Roof Primer, One Coat.....   | 0.49                   |                      |
|                    |     |     | <i>For Steep Roof, Over 7 To 12, Add</i>  | 0.07                   |                      |
| 07 41 13 00-0067   | SF  |     | Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat.....   | 0.74                   |                      |
|                    |     |     | Note: 55% solids by volume.   |                        |                      |
|                    |     |     | <i>For Steep Roof, Over 7 To 12, Add</i>  | 0.07                   |                      |
| <b>07 41 33</b>    |     |     | <b>Plastic Roof Panels</b> (07 41)  |                        |                      |
| 07 41 33 00-0001   |     |     | <b>Polyvinyl Chloride (PVC) Roofing Panels</b> (07 41 33)   |                        |                      |
| 07 41 33 00-0002   |     |     | <b>Polyvinyl Chloride (PVC) Roofing Panels</b> (07 41 33 00-0001)   |                        |                      |
| 07 41 33 00-0003   | SF  |     | Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide.....   | 8.62                   | 2.35                 |
| 07 41 33 00-0004   | SF  |     | Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide.....  | 8.44                   | 2.11                 |
| 07 41 33 00-0005   | SF  |     | Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide.....  | 9.06                   | 2.35                 |
| 07 41 33 00-0006   | SF  |     | Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide.....   | 8.82                   | 2.11                 |
| 07 41 33 00-0007   |     |     | <b>Polyvinyl Chloride (PVC) Roofing Accessories</b> (07 41 33 00-0001)  |                        |                      |
| 07 41 33 00-0008   | LF  |     | 1" "J" Channel, Starter Strip Trim.....   | 4.88                   | 1.76                 |
| 07 41 33 00-0009   | LF  |     | 3-1/2" "J" Channel, Starter Strip Trim.....   | 8.24                   | 1.76                 |
| 07 41 33 00-0010   | LF  |     | Outside Corner Post, 7/8" Pocket.....   | 9.20                   | 1.76                 |
| 07 41 33 00-0011   | LF  |     | Inside Corner Post, 7/8" Pocket.....  | 6.60                   | 1.76                 |
| 07 41 33 00-0012   |     |     | <b>Fiberglass Roofing Panel</b> (07 41 33)  |                        |                      |
| 07 41 33 00-0013   |     |     | <b>Corrugated Panels</b> (07 41 33 00-0012)   |                        |                      |
| 07 41 33 00-0014   | SF  |     | 8 Ounce Corrugated Fiberglass Panel.....  | 7.15                   | 1.88                 |
| 07 41 33 00-0015   | SF  |     | 12 Ounce Corrugated Fiberglass Panel.....   | 8.24                   | 1.88                 |
| <b>07 42</b>       |     |     | <b>Wall Panels</b> (07 40)  |                        |                      |
| <b>07 42 13</b>    |     |     | <b>Metal Wall Panels</b> (07 42)  |                        |                      |
| <b>07 42 13 19</b> |     |     | <b>Insulated Metal Wall Panels</b> (07 42 13)   |                        |                      |
| 07 42 13 19-0001   |     |     | <b>Insulated Panels For Sash/Window Replacement</b> (07 42 13 19)   |                        |                      |
|                    |     |     | Note: Porcelain or polymer finish on aluminum panel with polystyrene core.  |                        |                      |
| 07 42 13 19-0002   | SF  |     | 1" Insulated Panel For Sash Or Window Replacement.....  | 25.98                  | 5.08                 |
|                    |     |     | <i>For Non-Insulated Panels, Deduct</i>   | -3.94                  |                      |
| 07 42 13 19-0003   | SF  |     | 1-1/4" Insulated Panel For Sash Or Window Replacement.....  | 28.15                  | 5.71                 |
|                    |     |     | <i>For Non-Insulated Panels, Deduct</i>   | -4.21                  |                      |
| 07 42 13 19-0004   | SF  |     | 1-3/4" Insulated Panel For Sash Or Window Replacement.....  | 30.12                  | 6.35                 |
|                    |     |     | <i>For Non-Insulated Panels, Deduct</i>   | -4.48                  |                      |
| 07 42 13 19-0005   | SF  |     | 2-1/4" Insulated Panel For Sash Or Window Replacement.....  | 32.22                  | 6.61                 |
|                    |     |     | <i>For Non-Insulated Panels, Deduct</i>   | -4.75                  |                      |
| 07 42 13 19-0006   | SF  |     | 3-1/4" Insulated Panel For Sash Or Window Replacement.....  | 36.50                  | 7.24                 |
|                    |     |     | <i>For Non-Insulated Panels, Deduct</i>   | -5.52                  |                      |
| 07 42 13 19-0007   | SF  |     | 4-1/4" Insulated Panel For Sash Or Window Replacement.....  | 42.35                  | 8.00                 |
|                    |     |     | <i>For Non-Insulated Panels, Deduct</i>   | -6.62                  |                      |
| <b>07 42 13 23</b> |     |     | <b>Metal Composite Material Wall Panels</b> (07 42 13)  |                        |                      |
| 07 42 13 23-0001   |     |     | <b>24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels</b> (07 42 13 23)   |                        |                      |
|                    |     |     | Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume® AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation. |                        |                      |
| 07 42 13 23-0002   | SF  |     | 2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....   | 24.08                  | 2.97                 |
|                    |     |     | <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                   |                      |
|                    |     |     | <i>For Premium Exterior Colors, Add</i>   | 0.12                   |                      |
| 07 42 13 23-0003   | SF  |     | 2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....   | 27.06                  | 3.36                 |
|                    |     |     | <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                   |                      |
|                    |     |     | <i>For Premium Exterior Colors, Add</i>   | 0.12                   |                      |
| 07 42 13 23-0004   | SF  |     | 3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....   | 29.59                  | 3.81                 |
|                    |     |     | <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                   |                      |
|                    |     |     | <i>For Premium Exterior Colors, Add</i>   | 0.12                   |                      |
| 07 42 13 23-0005   | SF  |     | 4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....   | 33.07                  | 5.04                 |
|                    |     |     | <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                   |                      |
|                    |     |     | <i>For Premium Exterior Colors, Add</i>   | 0.12                   |                      |
| <b>07 42 63</b>    |     |     | <b>Fabricated Wall Panel Assemblies</b> (07 42)   |                        |                      |



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |   |       |      |
|------------------|----|--|---|-------|------|
| 07 42 63 00-0001 |    |  | <b>Insulated Freezer And Chiller Panels</b> (07 42 63)<br>Note: Excludes suspension system for ceiling support.             |       |      |
| 07 42 63 00-0002 |    |  | <b>Polyurethane Sandwich Panel</b> (07 42 63 00-0001)<br>Note: With 22 gauge galvanized sheet metal face excludes painting. |       |      |
| 07 42 63 00-0003 | SF |  | 2" 22 Gauge Freezer Panel Sheet Metal Both Faces .....  | 28.01 | 2.39 |
| 07 42 63 00-0004 | SF |  | 3" 22 Gauge Freezer Panel Sheet Metal Both Faces .....  | 29.67 | 2.39 |
| 07 42 63 00-0005 | SF |  | 4" 22 Gauge Freezer Panel Sheet Metal Both Faces .....  | 35.34 | 2.39 |
| 07 42 63 00-0006 | SF |  | 5" 22 Gauge Freezer Panel Sheet Metal Both Faces .....  | 38.27 | 2.54 |
| 07 42 63 00-0007 | SF |  | 6" 22 Gauge Freezer Panel Sheet Metal Both Faces .....  | 40.65 | 2.54 |
| 07 42 63 00-0008 | SF |  | 2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....  | 25.12 | 1.97 |
| 07 42 63 00-0009 | SF |  | 3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....  | 27.34 | 1.97 |
| 07 42 63 00-0010 | SF |  | 4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....  | 32.97 | 2.11 |
| 07 42 63 00-0011 | SF |  | 5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....  | 31.98 | 2.11 |
| 07 42 63 00-0012 | SF |  | 6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....  | 37.64 | 2.11 |

|                  |    |  |  |       |      |
|------------------|----|--|--|-------|------|
| 07 42 63 00-0013 |    |  | <b>Polyurethane Sandwich Panel</b> (07 42 63 00-0001)<br>Note: With .040 aluminum baked enamel finish. |       |      |
| 07 42 63 00-0014 | SF |  | 2" Freezer Panel 0.040" Aluminum Finish Both Faces .....   | 19.04 | 2.39 |
| 07 42 63 00-0015 | SF |  | 3" Freezer Panel 0.040" Aluminum Finish Both Faces .....   | 20.34 | 2.39 |
| 07 42 63 00-0016 | SF |  | 4" Freezer Panel 0.040" Aluminum Finish Both Faces .....   | 23.72 | 2.39 |
| 07 42 63 00-0017 | SF |  | 5" Freezer Panel 0.040" Aluminum Finish Both Faces .....   | 25.82 | 2.54 |
| 07 42 63 00-0018 | SF |  | 6" Freezer Panel 0.040" Aluminum Finish Both Faces .....   | 27.29 | 2.54 |
| 07 42 63 00-0019 | SF |  | 2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....                                   | 17.06 | 1.97 |
| 07 42 63 00-0020 | SF |  | 3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....                                   | 18.37 | 1.97 |
| 07 42 63 00-0021 | SF |  | 4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....                                   | 19.75 | 2.11 |
| 07 42 63 00-0022 | SF |  | 5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....                                   | 23.13 | 2.11 |
| 07 42 63 00-0023 | SF |  | 6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....                                   | 25.19 | 2.11 |

|                  |    |  |   |       |      |
|------------------|----|--|---|-------|------|
| <b>07 42 93</b>  |    |  | <b>Soffit Panels</b> (07 42)  |       |      |
| 07 42 93 00-0001 |    |  | <b>Aluminum Soffit And Fascia</b> (07 42 93)<br>Note: Excludes J-channel. |       |      |
| 07 42 93 00-0002 | LF |  | 6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....          | 5.07  | 1.78 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.09 |      |
| 07 42 93 00-0003 | LF |  | 10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....         | 6.24  | 1.87 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.18 |      |
| 07 42 93 00-0004 | LF |  | 1' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....          | 6.84  | 1.92 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.20 |      |
| 07 42 93 00-0005 | LF |  | 1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....       | 8.53  | 2.02 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.31 |      |
| 07 42 93 00-0006 | LF |  | 2' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....          | 10.43 | 2.21 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.42 |      |
| 07 42 93 00-0007 | LF |  | 3' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....          | 13.87 | 2.45 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.64 |      |
| 07 42 93 00-0008 | LF |  | 4' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....          | 17.36 | 2.69 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -0.86 |      |
| 07 42 93 00-0009 | LF |  | 5' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit .....          | 20.89 | 2.95 |
|                  |    |  | <i>For 0.015" Thick, Deduct</i>   | -1.08 |      |
| 07 42 93 00-0010 | LF |  | 4" Exposure, 0.024" Thick, Aluminum Fascia .....                          | 5.93  | 1.73 |
| 07 42 93 00-0011 | LF |  | 6" Exposure, 0.024" Thick, Aluminum Fascia .....                          | 6.48  | 1.78 |
| 07 42 93 00-0012 | LF |  | 8" Exposure, 0.024" Thick, Aluminum Fascia .....                          | 7.59  | 1.83 |
| 07 42 93 00-0013 | LF |  | 10" Exposure, 0.024" Thick, Aluminum Fascia .....                         | 8.78  | 1.87 |

|                  |    |  |  |       |      |
|------------------|----|--|--|-------|------|
| <b>07 46</b>     |    |  | <b>Siding</b> (07 40)  |       |      |
| 07 46 16         |    |  | <b>Aluminum Siding</b> (07 46)<br>Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.             |       |      |
| 07 46 16 00-0001 |    |  | <b>Aluminum Coil Stock Cladding</b> (07 46 16)<br>Note: Per SF of board, includes overlappage.   |       |      |
| 07 46 16 00-0002 | SF |  | 0.016" Thick, Aluminum Clad Siding .....   | 14.04 | 4.76 |
| 07 46 16 00-0003 | SF |  | 0.019" Thick, Aluminum Clad Siding .....   | 14.21 | 4.76 |
| 07 46 16 00-0004 | SF |  | 0.024" Thick, Aluminum Clad Siding .....   | 14.49 | 4.76 |
| 07 46 16 00-0005 |    |  | <b>Aluminum Siding Panels</b> (07 46 16)   |       |      |
| 07 46 16 00-0006 |    |  | <b>Corrugated Aluminum Siding Panels</b> (07 46 16 00-0005)<br>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish. |       |      |
| 07 46 16 00-0007 | SF |  | 0.019", Painted Finish, Corrugated Aluminum Siding Panel .....   | 9.57  | 2.58 |
| 07 46 16 00-0008 | SF |  | 0.021", Painted Finish, Corrugated Aluminum Siding Panel .....   | 9.96  | 2.58 |
| 07 46 16 00-0009 | SF |  | 0.024", Painted Finish, Corrugated Aluminum Siding Panel .....   | 11.19 | 2.58 |
| 07 46 16 00-0010 | SF |  | 0.032", Painted Finish, Corrugated Aluminum Siding Panel .....   | 13.58 | 2.58 |
| 07 46 16 00-0011 |    |  | <b>V- Beam Aluminum Siding Panels</b> (07 46 16 00-0005)<br>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.    |       |      |
| 07 46 16 00-0012 | SF |  | 0.032", Painted Finish, V- Beam Aluminum Siding Panel .....  | 13.48 | 2.58 |
| 07 46 16 00-0013 | SF |  | 0.040", Painted Finish, V- Beam Aluminum Siding Panel .....  | 15.09 | 2.58 |

**07 Thermal And Moisture Protection****07 40 Roofing and Siding Panels****07 46 Siding**

| MINOR                   |     |  |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|--|--|--------------|------------|
| CSI                     | UOM | DESCRIPTION  |  | UNIT COST    | UNIT COST  |
| 07 46 16 00-0014        | SF  | 0.050", Painted Finish, V- Beam Aluminum Siding Panel .....                                  |  | 18.90        | 2.58       |
| <b>07 46 16 00-0015</b> |     | <b>Box Ribbed Aluminum Siding Panels</b> (07 46 16 00-0005)                                  |  |              |            |
|                         |     | Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.                  |  |              |            |
| 07 46 16 00-0016        | SF  | 0.032", Painted Finish, Box Ribbed Aluminum Siding Panel .....                               |  | 14.19        | 2.58       |
| 07 46 16 00-0017        | SF  | 0.040", Painted Finish, Box Ribbed Aluminum Siding Panel .....                               |  | 15.74        | 2.58       |
| 07 46 16 00-0018        | SF  | 0.050", Painted Finish, Box Ribbed Aluminum Siding Panel .....                               |  | 16.69        | 2.58       |
| <b>07 46 16 00-0019</b> |     | <b>Aluminum Siding Accessories</b> (07 46 16)  |  |              |            |
| 07 46 16 00-0020        | LF  | 3/8" Pocket, Aluminum J-Channel .....  |  | 3.93         | 1.66       |
| 07 46 16 00-0021        | LF  | 1/2" Pocket, Aluminum J-Channel .....  |  | 3.93         | 1.66       |
| 07 46 16 00-0022        | LF  | 3/4" Pocket, Aluminum J-Channel .....  |  | 4.62         | 1.66       |
| 07 46 16 00-0023        | LF  | 3/8" Pocket, Aluminum F-Channel .....  |  | 4.26         | 1.66       |
| 07 46 16 00-0024        | LF  | 1/2" Pocket, Aluminum F-Channel .....  |  | 4.26         | 1.66       |
| <b>07 46 19</b>         |     | <b>Steel Siding</b> (07 46)  |  |              |            |
|                         |     | Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors. |  |              |            |
| <b>07 46 19 00-0001</b> |     | <b>Steel Siding Panels</b> (07 46 19)  |  |              |            |
| <b>07 46 19 00-0002</b> |     | <b>Corrugated Steel Siding Panels</b> (07 46 19 00-0001)                                     |  |              |            |
|                         |     | Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.                  |  |              |            |
| 07 46 19 00-0003        | SF  | 20 Gauge, Painted Finish, Corrugated Steel Siding Panel .....                                |  | 13.37        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 2.05         |            |
| 07 46 19 00-0004        | SF  | 22 Gauge, Painted Finish, Corrugated Steel Siding Panel .....                                |  | 12.31        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.79         |            |
| 07 46 19 00-0005        | SF  | 24 Gauge, Painted Finish, Corrugated Steel Siding Panel .....                                |  | 12.05        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.72         |            |
| 07 46 19 00-0006        | SF  | 26 Gauge, Painted Finish, Corrugated Steel Siding Panel .....                                |  | 8.93         | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 0.94         |            |
| 07 46 19 00-0007        | SF  | 28 Gauge, Painted Finish, Corrugated Steel Siding Panel .....                                |  | 8.71         | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 0.89         |            |
| 07 46 19 00-0008        | SF  | 30 Gauge, Painted Finish, Corrugated Steel Siding Panel .....                                |  | 8.57         | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 0.85         |            |
| <b>07 46 19 00-0009</b> |     | <b>Box Ribbed Steel Siding Panels</b> (07 46 19 00-0001)                                     |  |              |            |
|                         |     | Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.                  |  |              |            |
| 07 46 19 00-0010        | SF  | 20 Gauge, Painted Finish, Box Ribbed Steel Siding Panel .....                                |  | 12.58        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.85         |            |
| 07 46 19 00-0011        | SF  | 22 Gauge, Painted Finish, Box Ribbed Steel Siding Panel .....                                |  | 12.10        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.73         |            |
| 07 46 19 00-0012        | SF  | 24 Gauge, Painted Finish, Box Ribbed Steel Siding Panel .....                                |  | 11.78        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.65         |            |
| 07 46 19 00-0013        | SF  | 26 Gauge, Painted Finish, Box Ribbed Steel Siding Panel .....                                |  | 11.25        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.52         |            |
| 07 46 19 00-0014        | SF  | 28 Gauge, Painted Finish, Box Ribbed Steel Siding Panel .....                                |  | 10.12        | 2.58       |
|                         |     | For Galvanized Instead Of Painted Steel, Add .....   |  | 1.24         |            |
| <b>07 46 19 00-0015</b> |     | <b>Clapboard Steel Siding Panels</b> (07 46 19 00-0001)                                      |  |              |            |
|                         |     | Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.                  |  |              |            |
| 07 46 19 00-0016        | SF  | 29 Gauge, Painted Finish, Clapboard Steel Siding Panel .....                                 |  | 10.45        | 1.29       |
| <b>07 46 23</b>         |     | <b>Wood Siding</b> (07 46)   |  |              |            |
|                         |     | Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors. |  |              |            |
| <b>07 46 23 00-0001</b> |     | <b>Wood Lap Siding</b> (07 46 23)  |  |              |            |
| 07 46 23 00-0002        | LF  | 8" Wide Rough Sawn Cedar Lap Siding .....  |  | 4.42         | 1.71       |
| 07 46 23 00-0003        | LF  | 10" Wide Rough Sawn Cedar Lap Siding .....   |  | 4.97         | 1.82       |
| 07 46 23 00-0004        | LF  | 12" Wide Rough Sawn Cedar Lap Siding .....   |  | 5.54         | 1.93       |
| 07 46 23 00-0005        | LF  | 6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade .....                                 |  | 4.72         | 1.71       |
| 07 46 23 00-0006        | LF  | 6" To 8" Wide Spruce Lap Siding, #2 Or Better .....  |  | 5.24         | 1.71       |
| 07 46 23 00-0007        | LF  | 6" To 8" Wide Western Red Cedar, B Grade Lap Siding .....                                    |  | 6.34         | 1.71       |
| 07 46 23 00-0008        | LF  | 6" To 8" Wide Western Red Cedar, A Grade Lap Siding .....                                    |  | 6.78         | 1.71       |
| 07 46 23 00-0009        | LF  | 6" To 8" Wide Clear Heart Redwood Lap Siding .....   |  | 6.16         | 1.71       |
| 07 46 23 00-0010        | LF  | 1" x 8" Cedar Round Or Flat Front Siding, Log Cabin .....                                    |  | 4.62         | 1.82       |
| 07 46 23 00-0011        | LF  | 1" x 8" Cedar Beveled Siding, Channel, Rustic .....  |  | 4.62         | 1.82       |
| <b>07 46 23 00-0012</b> |     | <b>Tongue And Groove Siding</b> (07 46 23)   |  |              |            |
| 07 46 23 00-0013        | SF  | 1" x 6" Tongue And Groove Southern Yellow Pine Siding .....                                  |  | 4.41         | 1.71       |
| 07 46 23 00-0014        | SF  | 1" x 8" Tongue And Groove Southern Yellow Pine Siding .....                                  |  | 4.87         | 1.71       |
| 07 46 23 00-0015        | SF  | 1" x 6" 105 Southern Yellow Pine Siding .....  |  | 4.52         | 1.71       |
| 07 46 23 00-0016        | SF  | 1" x 8" 105 Southern Yellow Pine Siding .....  |  | 5.14         | 1.71       |
| <b>07 46 29</b>         |     | <b>Plywood Siding</b> (07 46)  |  |              |            |
|                         |     | Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors. |  |              |            |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>07 46 29 00-0001 T-111 Siding</b> <small>(07 46 29)</small>  |                           |                         |
| 07 46 29 00-0002 SF 5/8" T-111, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud.....      | 3.03                      | 0.89                    |
| <i>For Pressure Treated, Add</i>  | 0.18                      |                         |
| <b>07 46 33 Plastic Siding</b> <small>(07 46)</small>   |                           |                         |
| Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.          |                           |                         |
| <b>07 46 33 00-0001 Vinyl Siding</b> <small>(07 46 33)</small>  |                           |                         |
| Note: Includes standard manufacturer's colors.  |                           |                         |
| <b>07 46 33 00-0002 Vinyl Siding Panels</b> <small>(07 46 33 00-0001)</small>                         |                           |                         |
| Note: Excludes J-channels, starter strips and trim.   |                           |                         |
| <b>07 46 33 00-0003 Horizontal Vinyl Siding Panels</b> <small>(07 46 33 00-0002)</small>              |                           |                         |
| Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles. |                           |                         |
| 07 46 33 00-0004 SF 7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....                     | 5.88                      | 2.17                    |
| <i>For 0.040" Thick, Deduct</i>   | -0.21                     |                         |
| <i>For 0.042" Thick, Deduct</i>   | -0.08                     |                         |
| <i>For 0.046" Thick, Add</i>  | 0.64                      |                         |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.08                      |                         |
| 07 46 33 00-0005 SF 8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....                     | 5.62                      | 2.05                    |
| <i>For 0.040" Thick, Deduct</i>   | -0.21                     |                         |
| <i>For 0.042" Thick, Deduct</i>   | -0.08                     |                         |
| <i>For 0.046" Thick, Add</i>  | 0.64                      |                         |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.08                      |                         |
| 07 46 33 00-0006 SF 9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....                     | 5.43                      | 1.95                    |
| <i>For 0.040" Thick, Deduct</i>   | -0.21                     |                         |
| <i>For 0.042" Thick, Deduct</i>   | -0.08                     |                         |
| <i>For 0.046" Thick, Add</i>  | 0.64                      |                         |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.08                      |                         |
| 07 46 33 00-0007 SF 10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....                    | 5.24                      | 1.86                    |
| <i>For 0.040" Thick, Deduct</i>   | -0.21                     |                         |
| <i>For 0.042" Thick, Deduct</i>   | -0.08                     |                         |
| <i>For 0.046" Thick, Add</i>  | 0.64                      |                         |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.08                      |                         |
| 07 46 33 00-0008 SF 12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....                    | 4.98                      | 1.72                    |
| <i>For 0.040" Thick, Deduct</i>   | -0.21                     |                         |
| <i>For 0.042" Thick, Deduct</i>   | -0.08                     |                         |
| <i>For 0.046" Thick, Add</i>  | 0.64                      |                         |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.08                      |                         |
| <b>07 46 33 00-0009 Vertical Vinyl Siding Panels</b> <small>(07 46 33 00-0002)</small>                |                           |                         |
| 07 46 33 00-0010 SF 7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel.....              | 7.07                      | 2.17                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.14                      |                         |
| <b>07 46 33 00-0011 Vinyl Siding Accessories</b> <small>(07 46 33 00-0001)</small>                    |                           |                         |
| 07 46 33 00-0012 LF 3/4" Pocket, Outside Corner Post For Vinyl Siding.....                            | 7.23                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.19                      |                         |
| 07 46 33 00-0013 LF 1-1/8" Pocket, Outside Corner Post For Vinyl Siding.....                          | 13.19                     | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.49                      |                         |
| 07 46 33 00-0014 LF 3/4" Pocket, Inside Corner Post For Vinyl Siding.....                             | 5.73                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.12                      |                         |
| 07 46 33 00-0015 LF 1-1/8" Pocket, Inside Corner Post For Vinyl Siding.....                           | 6.99                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.18                      |                         |
| 07 46 33 00-0016 LF 3/8" Pocket, J-Channel For Vinyl Siding.....                                      | 4.25                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.06                      |                         |
| 07 46 33 00-0017 LF 1/2" Pocket, J-Channel For Vinyl Siding.....                                      | 3.97                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.05                      |                         |
| 07 46 33 00-0018 LF 5/8" Pocket, J-Channel For Vinyl Siding.....                                      | 3.91                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.04                      |                         |
| 07 46 33 00-0019 LF 3/4" Pocket, J-Channel For Vinyl Siding.....                                      | 4.09                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.05                      |                         |
| 07 46 33 00-0020 LF 1" Pocket, J-Channel For Vinyl Siding.....  | 4.87                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.08                      |                         |
| 07 46 33 00-0021 LF 1-1/4" Pocket, J-Channel For Vinyl Siding.....                                    | 5.30                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.10                      |                         |
| 07 46 33 00-0022 LF 2-1/2" Pocket, J-Channel For Vinyl Siding.....                                    | 5.93                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.09                      |                         |
| 07 46 33 00-0023 LF 1/2" Pocket, F-Channel For Vinyl Siding.....                                      | 4.05                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.07                      |                         |
| 07 46 33 00-0024 LF 3/4" Pocket, 3-1/2" Lineal Trim For Vinyl Siding.....                             | 9.20                      | 2.30                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.23                      |                         |
| 07 46 33 00-0025 LF 3/4" Pocket, 5" Lineal Trim For Vinyl Siding.....                                 | 9.62                      | 2.30                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.25                      |                         |
| 07 46 33 00-0026 LF 1-1/8" Pocket, 3-1/2" Lineal Trim For Vinyl Siding.....                           | 10.55                     | 2.30                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.30                      |                         |
| 07 46 33 00-0027 LF 3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding.....                                  | 5.49                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.11                      |                         |
| 07 46 33 00-0028 LF Vinyl Starter Strip For Vinyl Siding.....   | 6.81                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.17                      |                         |
| 07 46 33 00-0029 LF Undersill Trim For Vinyl Siding.....  | 5.86                      | 1.66                    |
| <i>For Manufacturer's Custom Colors, Add</i>  | 0.13                      |                         |



**07 Thermal And Moisture Protection****07 40 Roofing and Siding Panels****07 46 Siding**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>07 46 33 00-0030 Vinyl Soffit And Fascia</b> (07 46 33 00-0001)<br>Note: Excludes J-channel. |                           |                         |
| 07 46 33 00-0031 LF 6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....                | 4.97                      | 1.78                    |
| For 0.038" Thick, Deduct  | -0.63                     |                         |
| For 0.040" Thick, Deduct  | -0.54                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.07                      |                         |
| 07 46 33 00-0032 LF 10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....               | 6.08                      | 1.87                    |
| For 0.038" Thick, Deduct  | -1.06                     |                         |
| For 0.040" Thick, Deduct  | -0.90                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.12                      |                         |
| 07 46 33 00-0033 LF 1" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....                | 6.65                      | 1.92                    |
| For 0.038" Thick, Deduct  | -1.29                     |                         |
| For 0.040" Thick, Deduct  | -1.08                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.14                      |                         |
| 07 46 33 00-0034 LF 1'-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....             | 8.24                      | 2.02                    |
| For 0.038" Thick, Deduct  | -1.92                     |                         |
| For 0.040" Thick, Deduct  | -1.62                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.21                      |                         |
| 07 46 33 00-0035 LF 2" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....                | 10.05                     | 2.21                    |
| For 0.038" Thick, Deduct  | -2.58                     |                         |
| For 0.040" Thick, Deduct  | -2.15                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.28                      |                         |
| 07 46 33 00-0036 LF 3" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....                | 13.30                     | 2.45                    |
| For 0.038" Thick, Deduct  | -3.87                     |                         |
| For 0.040" Thick, Deduct  | -3.23                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.42                      |                         |
| 07 46 33 00-0037 LF 4" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....                | 16.60                     | 2.69                    |
| For 0.038" Thick, Deduct  | -5.15                     |                         |
| For 0.040" Thick, Deduct  | -4.33                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.56                      |                         |
| 07 46 33 00-0038 LF 5" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....                | 19.94                     | 2.95                    |
| For 0.038" Thick, Deduct  | -6.44                     |                         |
| For 0.040" Thick, Deduct  | -5.40                     |                         |
| For Manufacturer's Custom Colors, Add   | 0.70                      |                         |
| 07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia.....  | 5.17                      | 1.73                    |
| For Manufacturer's Custom Colors, Add   | 0.08                      |                         |
| 07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia.....  | 5.75                      | 1.78                    |
| For Manufacturer's Custom Colors, Add   | 0.11                      |                         |
| 07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia.....  | 5.68                      | 1.83                    |
| For Manufacturer's Custom Colors, Add   | 0.10                      |                         |
| 07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia.....   | 6.49                      | 1.87                    |
| For Manufacturer's Custom Colors, Add   | 0.14                      |                         |
| <b>07 46 33 00-0043 Fiberglass Siding</b> (07 46 33)  |                           |                         |
| <b>07 46 33 00-0044 Corrugated Panels</b> (07 46 33 00-0043)                                    |                           |                         |
| 07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels.....                                   | 7.53                      | 2.56                    |
| 07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels.....                                   | 7.99                      | 2.30                    |
| 07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels.....                                  | 8.82                      | 2.30                    |
| <b>07 46 33 00-0048 Flat Panels</b> (07 46 33 00-0043)  |                           |                         |
| 07 46 33 00-0049 SF 6 Ounce Flat Fiberglass Panels.....   | 7.23                      | 2.30                    |
| 07 46 33 00-0050 SF 8 Ounce Flat Fiberglass Panels.....   | 7.99                      | 2.30                    |
| <b>07 46 46 Fiber-Cement Siding</b> (07 46)   |                           |                         |
| Note: Smooth or patterns. Includes sealer and primer.   |                           |                         |
| <b>07 46 46 00-0001 5/16" Thick, Fiber Cement Lap Siding</b> (07 46 46)                         |                           |                         |
| 07 46 46 00-0002 SF 5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....    | 6.85                      | 2.69                    |
| 07 46 46 00-0003 SF 6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....    | 6.52                      | 2.56                    |
| 07 46 46 00-0004 SF 7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....    | 6.38                      | 2.50                    |
| 07 46 46 00-0005 SF 8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....    | 6.22                      | 2.42                    |
| 07 46 46 00-0006 SF 9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....    | 5.94                      | 2.30                    |
| 07 46 46 00-0007 SF 12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....  | 5.65                      | 2.17                    |
| 07 46 46 00-0008 LF Starter Strip, Fiber Cement Lap Siding.....                                 | 1.49                      | 0.64                    |
| <b>07 46 46 00-0009 Fiber Cement Shingle Siding</b> (07 46 46)                                  |                           |                         |
| 07 46 46 00-0010 SF Fiber Cement Shingle Siding.....  | 9.27                      | 2.36                    |
| <b>07 46 46 00-0011 Fiber Cement Vertical Panel Siding</b> (07 46 46)                           |                           |                         |
| 07 46 46 00-0012 SF Fiber Cement Vertical Panel Siding.....                                     | 5.00                      | 1.92                    |
| <b>07 46 46 00-0013 Fiber Cement Trim Boards</b> (07 46 46)                                     |                           |                         |
| <b>07 46 46 00-0014 7/16" Thick, Fiber Cement Trim Boards</b> (07 46 46 00-0013)                |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 46 46 00-0015 LF 4" Wide, 7/16" Thick, Fiber Cement Trim Board .....  | 3.28                      | 1.28                    |
| 07 46 46 00-0016 LF 6" Wide, 7/16" Thick, Fiber Cement Trim Board .....  | 4.01                      | 1.41                    |
| 07 46 46 00-0017 LF 8" Wide, 7/16" Thick, Fiber Cement Trim Board .....  | 4.71                      | 1.53                    |
| 07 46 46 00-0018 LF 12" Wide, 7/16" Thick, Fiber Cement Trim Board .....   | 6.04                      | 1.79                    |
| <b>07 46 46 00-0019 3/4" Thick Fiber Cement Trim Boards (07 46 46 00-0013)</b>   |                           |                         |
| 07 46 46 00-0020 LF 4" Wide, 3/4" Thick, Fiber Cement Trim Board .....   | 3.40                      | 1.28                    |
| 07 46 46 00-0021 LF 6" Wide, 3/4" Thick, Fiber Cement Trim Board .....   | 4.19                      | 1.41                    |
| 07 46 46 00-0022 LF 8" Wide, 3/4" Thick, Fiber Cement Trim Board .....   | 5.01                      | 1.53                    |
| 07 46 46 00-0023 LF 12" Wide, 3/4" Thick, Fiber Cement Trim Board .....  | 5.38                      | 1.79                    |
| <b>07 46 46 00-0024 1" Thick Fiber Cement Trim Boards (07 46 46 00-0013)</b>   |                           |                         |
| 07 46 46 00-0025 LF 4" Wide, 1" Thick, Fiber Cement Trim Board .....   | 3.55                      | 1.28                    |
| 07 46 46 00-0026 LF 6" Wide, 1" Thick, Fiber Cement Trim Board .....   | 4.46                      | 1.41                    |
| 07 46 46 00-0027 LF 8" Wide, 1" Thick, Fiber Cement Trim Board .....   | 5.40                      | 1.53                    |
| 07 46 46 00-0028 LF 12" Wide, 1" Thick, Fiber Cement Trim Board .....  | 7.04                      | 1.79                    |
| <b>07 46 46 00-0029 Fiber Cement Fascia Board (07 46 46)</b>   |                           |                         |
| 07 46 46 00-0030 LF 5/4" x 3-1/2" Fiber Cement Fascia Board .....  | 6.75                      | 2.54                    |
| 07 46 46 00-0031 LF 5/4" x 5-1/2" Fiber Cement Fascia Board .....  | 8.30                      | 2.82                    |
| 07 46 46 00-0032 LF 5/4" x 7-1/4" Fiber Cement Fascia Board .....  | 9.13                      | 2.82                    |
| 07 46 46 00-0033 LF 5/4" x 11-1/4" Fiber Cement Fascia Board .....   | 11.94                     | 3.32                    |
| <b>07 46 46 00-0034 Fiber Cement Soffit Boards (07 46 46)</b>  |                           |                         |
| 07 46 46 00-0035 SF 1/4" Thick, Non-Vented Fiber Cement Soffit .....   | 7.65                      | 1.83                    |
| 07 46 46 00-0036 SF 1/4" Thick, Vented Fiber Cement Soffit .....   | 8.16                      | 1.83                    |
| <b>07 46 63 Fabricated Panel Assemblies with Siding (07 46)</b>  |                           |                         |
| <b>07 46 63 00-0001 Metal Liner Panels (07 46 63)</b>  |                           |                         |
| <b>07 46 63 00-0002 Galvanized Metal Liner Panels (07 46 63 00-0001)</b>   |                           |                         |
| 07 46 63 00-0003 SF 24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel .....  | 11.32                     | 2.30                    |
| 07 46 63 00-0004 SF 22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel .....  | 12.38                     | 2.30                    |
| 07 46 63 00-0005 SF 20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel .....  | 14.25                     | 2.30                    |
| 07 46 63 00-0006 SF 18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel .....  | 14.44                     | 2.30                    |
| <b>07 50 Membrane Roofing (07)</b>   |                           |                         |
| See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.                           |                           |                         |
| <b>07 51 Built-Up Bituminous Roofing (07 50)</b>   |                           |                         |
| <b>07 51 13 Built-Up Asphalt Roofing (07 51)</b>   |                           |                         |
| <b>07 51 13 00-0001 Built-Up Asphalt Roofing Components (07 51 13)</b>   |                           |                         |
| <b>07 51 13 00-0002 Built-Up Asphalt Membrane Roofing (07 51 13 00-0001)</b>   |                           |                         |
| Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0067 for built-up roofing demolition. |                           |                         |
| <b>07 51 13 00-0003 Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)</b>  |                           |                         |
| Note: Includes applying cold adhesive and embedding the membrane.  |                           |                         |
| <b>07 51 13 00-0004 Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0003)</b>  |                           |                         |
| 07 51 13 00-0005 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied .....  | 115.80                    |                         |
| For Up To 10, Add  | 30.57                     |                         |
| For >10 To 20, Add   | 17.14                     |                         |
| For >20 To 40, Add   | 9.50                      |                         |
| For >75 To 100, Deduct   | -4.75                     |                         |
| For >100 To 200, Deduct  | -10.42                    |                         |
| For >200, Deduct   | -15.17                    |                         |
| 07 51 13 00-0006 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied .....  | 321.04                    |                         |
| For Up To 10, Add  | 71.62                     |                         |
| For >10 To 20, Add   | 37.66                     |                         |
| For >20 To 40, Add   | 19.76                     |                         |
| For >75 To 100, Deduct   | -9.88                     |                         |
| For >100 To 200, Deduct  | -20.68                    |                         |
| For >200, Deduct   | -30.56                    |                         |
| <b>07 51 13 00-0007 Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)</b>  |                           |                         |
| 07 51 13 00-0008 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied .....   | 7.67                      |                         |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 07 51 13 00-0009 |     |     | <b>Hot-Mopped, Built-Up Asphalt Membrane Roofing</b> (07 51 13 00-0002)<br>Note: Includes mopping hot asphalt and embedding the membrane. |                        |                      |
| 07 51 13 00-0010 |     |     | <b>Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets</b> (07 51 13 00-0009)   |                        |                      |
| 07 51 13 00-0011 | SQ  |     | Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....   | 85.21                  |                      |
|                  |     |     | For Up To 10, Add   | 24.59                  |                      |
|                  |     |     | For >10 To 20, Add  | 14.18                  |                      |
|                  |     |     | For >20 To 40, Add  | 8.03                   |                      |
|                  |     |     | For >75 To 100, Deduct  | -4.02                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -8.98                  |                      |
|                  |     |     | For >200, Deduct  | -12.99                 |                      |
| 07 51 13 00-0012 | SQ  |     | Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....   | 91.06                  |                      |
|                  |     |     | For Up To 10, Add   | 25.76                  |                      |
|                  |     |     | For >10 To 20, Add  | 14.76                  |                      |
|                  |     |     | For >20 To 40, Add  | 8.33                   |                      |
|                  |     |     | For >75 To 100, Deduct  | -4.16                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -9.27                  |                      |
|                  |     |     | For >200, Deduct  | -13.43                 |                      |
| 07 51 13 00-0013 | SQ  |     | Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped.....  | 97.71                  |                      |
|                  |     |     | For Up To 10, Add   | 27.09                  |                      |
|                  |     |     | For >10 To 20, Add  | 15.43                  |                      |
|                  |     |     | For >20 To 40, Add  | 8.66                   |                      |
|                  |     |     | For >75 To 100, Deduct  | -4.33                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -9.60                  |                      |
|                  |     |     | For >200, Deduct  | -13.93                 |                      |
| 07 51 13 00-0014 | SQ  |     | Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped.....   | 171.46                 |                      |
|                  |     |     | For Up To 10, Add   | 41.84                  |                      |
|                  |     |     | For >10 To 20, Add  | 22.80                  |                      |
|                  |     |     | For >20 To 40, Add  | 12.35                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -6.17                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -13.29                 |                      |
|                  |     |     | For >200, Deduct  | -19.46                 |                      |
| 07 51 13 00-0015 | SQ  |     | Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped .....  | 290.46                 |                      |
|                  |     |     | For Up To 10, Add   | 65.64                  |                      |
|                  |     |     | For >10 To 20, Add  | 34.70                  |                      |
|                  |     |     | For >20 To 40, Add  | 18.30                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -9.15                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -19.24                 |                      |
|                  |     |     | For >200, Deduct  | -28.39                 |                      |
| 07 51 13 00-0016 | SQ  |     | Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped .....   | 220.04                 |                      |
|                  |     |     | For Up To 10, Add   | 52.27                  |                      |
|                  |     |     | For >10 To 20, Add  | 28.20                  |                      |
|                  |     |     | For >20 To 40, Add  | 15.13                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -7.57                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -16.16                 |                      |
|                  |     |     | For >200, Deduct  | -23.73                 |                      |
| 07 51 13 00-0017 |     |     | <b>Hot-Mopped, Built-Up Asphalt Roofing Flashing</b> (07 51 13 00-0009)   |                        |                      |
| 07 51 13 00-0018 | SF  |     | Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped .....   | 4.88                   |                      |
| 07 51 13 00-0019 |     |     | <b>Mechanically Fastened, Built-Up Asphalt Membrane Roofing</b> (07 51 13 00-0002)<br>Note: Includes fasteners.                           |                        |                      |
| 07 51 13 00-0020 |     |     | <b>Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets</b> (07 51 13 00-0019)  |                        |                      |
| 07 51 13 00-0021 | SQ  |     | Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....  | 89.82                  |                      |
|                  |     |     | For Up To 10, Add   | 21.67                  |                      |
|                  |     |     | For >10 To 20, Add  | 11.76                  |                      |
|                  |     |     | For >20 To 40, Add  | 6.34                   |                      |
|                  |     |     | For >75 To 100, Deduct  | -3.17                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -6.80                  |                      |
|                  |     |     | For >200, Deduct  | -9.98                  |                      |
| 07 51 13 00-0022 | SQ  |     | Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....  | 170.22                 |                      |
|                  |     |     | For Up To 10, Add   | 37.75                  |                      |
|                  |     |     | For >10 To 20, Add  | 19.80                  |                      |
|                  |     |     | For >20 To 40, Add  | 10.36                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -5.18                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -10.82                 |                      |
|                  |     |     | For >200, Deduct  | -16.01                 |                      |
| 07 51 13 00-0023 | SQ  |     | Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened.....  | 289.21                 |                      |
|                  |     |     | For Up To 10, Add   | 61.54                  |                      |
|                  |     |     | For >10 To 20, Add  | 31.70                  |                      |
|                  |     |     | For >20 To 40, Add  | 16.31                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -8.16                  |                      |
|                  |     |     | For >100 To 200, Deduct   | -16.77                 |                      |
|                  |     |     | For >200, Deduct  | -24.93                 |                      |
| 07 51 13 00-0024 |     |     | <b>Mechanically Fastened, Built-Up Asphalt Roofing Flashing</b> (07 51 13 00-0019)  |                        |                      |
| 07 51 13 00-0025 | SF  |     | Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened .....  | 5.91                   |                      |
| 07 51 13 00-0026 |     |     | <b>Asphalt Saturated Organic Felt</b> (07 51 13 00-0001)  |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>07 51 13 00-0027 Cold Adhesive Applied, Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0026)</small>  |                           |                         |
| <small>Note: Includes applying cold adhesive and embedding the felt.</small>   |                           |                         |
| 07 51 13 00-0028 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied .....  | 112.14                    |                         |
| For Up To 10, Add  | 29.84                     |                         |
| For >10 To 20, Add   | 16.77                     |                         |
| For >20 To 40, Add   | 9.31                      |                         |
| For >75 To 100, Deduct   | -4.66                     |                         |
| For >100 To 200, Deduct  | -10.24                    |                         |
| For >200, Deduct   | -14.89                    |                         |
| 07 51 13 00-0029 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied .....  | 127.23                    |                         |
| For Up To 10, Add  | 32.86                     |                         |
| For >10 To 20, Add   | 18.28                     |                         |
| For >20 To 40, Add   | 10.07                     |                         |
| For >75 To 100, Deduct   | -5.03                     |                         |
| For >100 To 200, Deduct  | -10.99                    |                         |
| For >200, Deduct   | -16.03                    |                         |
| <b>07 51 13 00-0030 Hot-Mopped, Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0026)</small>   |                           |                         |
| <small>Note: Includes mopping hot asphalt and embedding the felt.</small>  |                           |                         |
| 07 51 13 00-0031 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped .....   | 81.55                     |                         |
| For Up To 10, Add  | 23.85                     |                         |
| For >10 To 20, Add   | 13.81                     |                         |
| For >20 To 40, Add   | 7.85                      |                         |
| For >75 To 100, Deduct   | -3.92                     |                         |
| For >100 To 200, Deduct  | -8.79                     |                         |
| For >200, Deduct   | -12.72                    |                         |
| 07 51 13 00-0032 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped .....   | 96.64                     |                         |
| For Up To 10, Add  | 26.87                     |                         |
| For >10 To 20, Add   | 15.32                     |                         |
| For >20 To 40, Add   | 8.60                      |                         |
| For >75 To 100, Deduct   | -4.30                     |                         |
| For >100 To 200, Deduct  | -9.55                     |                         |
| For >200, Deduct   | -13.85                    |                         |
| <b>07 51 13 00-0033 Mechanically Fastened, Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0026)</small>  |                           |                         |
| <small>Note: Includes fasteners.</small>   |                           |                         |
| 07 51 13 00-0034 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened .....  | 40.97                     |                         |
| For Up To 10, Add  | 11.90                     |                         |
| For >10 To 20, Add   | 6.87                      |                         |
| For >20 To 40, Add   | 3.90                      |                         |
| For >75 To 100, Deduct   | -1.95                     |                         |
| For >100 To 200, Deduct  | -4.36                     |                         |
| For >200, Deduct   | -6.31                     |                         |
| 07 51 13 00-0035 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened .....  | 56.06                     |                         |
| For Up To 10, Add  | 14.91                     |                         |
| For >10 To 20, Add   | 8.38                      |                         |
| For >20 To 40, Add   | 4.65                      |                         |
| For >75 To 100, Deduct   | -2.33                     |                         |
| For >100 To 200, Deduct  | -5.12                     |                         |
| For >200, Deduct   | -7.44                     |                         |
| <b>07 51 13 00-0036 Surfacing</b> <small>(07 51 13 00-0001)</small>  |                           |                         |
| 07 51 13 00-0037 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat .....  | 180.44                    |                         |
| For Up To 10, Add  | 54.61                     |                         |
| For >10 To 20, Add   | 31.94                     |                         |
| For >20 To 40, Add   | 18.29                     |                         |
| For >75 To 100, Deduct   | -9.14                     |                         |
| For >100 To 200, Deduct  | -20.60                    |                         |
| For >200, Deduct   | -29.74                    |                         |
| 07 51 13 00-0038 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat.....   | 269.25                    |                         |
| For Up To 10, Add  | 72.38                     |                         |
| For >10 To 20, Add   | 40.82                     |                         |
| For >20 To 40, Add   | 22.73                     |                         |
| For >75 To 100, Deduct   | -11.36                    |                         |
| For >100 To 200, Deduct  | -25.04                    |                         |
| For >200, Deduct   | -36.40                    |                         |
| 07 51 13 00-0039 CY Gravel Roofing Ballast, Spread To Desired Thickness .....  | 187.68                    |                         |
| <small>Note: Excludes hot asphalt or cold adhesive.</small>  |                           |                         |
| 07 51 13 00-0040 SQ Protective Polypropylene Fabric Mat, Loose Laid .....  | 52.50                     |                         |
| <small>Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.</small> |                           |                         |
| For Up To 10, Add  | 12.94                     |                         |
| For >10 To 20, Add   | 7.08                      |                         |
| For >20 To 40, Add   | 3.85                      |                         |
| For >75 To 100, Deduct   | -1.92                     |                         |
| For >100 To 200, Deduct  | -4.15                     |                         |
| For >200, Deduct   | -6.08                     |                         |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 51 13 00-0041 SQ Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating,<br>Price Per Coat .....  | 131.43                    |                         |
| Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs.   |                           |                         |
| For Up To 10, Add   | 30.73                     |                         |
| For >10 To 20, Add  | 16.48                     |                         |
| For >20 To 40, Add  | 8.79                      |                         |
| For >75 To 100, Deduct  | -4.40                     |                         |
| For >100 To 200, Deduct   | -9.35                     |                         |
| For >200, Deduct  | -13.75                    |                         |
| 07 51 13 00-0042 SQ Fibrated Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat .....   | 116.74                    |                         |
| Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs.  |                           |                         |
| For Up To 10, Add   | 27.79                     |                         |
| For >10 To 20, Add  | 15.01                     |                         |
| For >20 To 40, Add  | 8.06                      |                         |
| For >75 To 100, Deduct  | -4.03                     |                         |
| For >100 To 200, Deduct   | -8.62                     |                         |
| For >200, Deduct  | -12.65                    |                         |
| 07 51 13 00-0043 SQ Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per<br>Coat .....   | 156.82                    |                         |
| Note: Reflective coating for use over smooth-surfaced built-up roofs.   |                           |                         |
| For Up To 10, Add   | 35.81                     |                         |
| For >10 To 20, Add  | 19.02                     |                         |
| For >20 To 40, Add  | 10.06                     |                         |
| For >75 To 100, Deduct  | -5.03                     |                         |
| For >100 To 200, Deduct   | -10.62                    |                         |
| For >200, Deduct  | -15.65                    |                         |
| 07 51 13 00-0044 SQ 100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat .....  | 158.13                    |                         |
| Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or<br>granule surfaced roofing systems.   |                           |                         |
| For Up To 10, Add   | 36.07                     |                         |
| For >10 To 20, Add  | 19.15                     |                         |
| For >20 To 40, Add  | 10.13                     |                         |
| For >75 To 100, Deduct  | -5.06                     |                         |
| For >100 To 200, Deduct   | -10.69                    |                         |
| For >200, Deduct  | -15.75                    |                         |
| For Installation Over Granule Surfaced Asphalt Roof Systems, Add  | 47.07                     |                         |
| 07 51 13 00-0045 SQ 100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat .....   | 163.53                    |                         |
| Note: Bleed blocking coating for use over built-up, Styrene-Butadiene-Styrene (SBS) and Atactic-Polypropylene<br>(APP) modified bitumen roofs. For use on smooth or granule surfaced roofing systems.                               |                           |                         |
| For Up To 10, Add   | 37.15                     |                         |
| For >10 To 20, Add  | 19.69                     |                         |
| For >20 To 40, Add  | 10.40                     |                         |
| For >75 To 100, Deduct  | -5.20                     |                         |
| For >100 To 200, Deduct   | -10.96                    |                         |
| For >200, Deduct  | -16.16                    |                         |
| For Installation Over Granule Surfaced Asphalt Roof Systems, Add  | 48.85                     |                         |
| 07 51 13 00-0046 SF Ceramic Coated Roofing Granules, Hand Broadcast .....   | 2.58                      |                         |
| Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane<br>repairs, etc.  |                           |                         |
| 07 51 13 00-0047 SF Energy Star, Ceramic Coated UltraWhite Roofing Granules, Hand Broadcast .....   | 4.52                      |                         |
| Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane<br>repairs, etc.  |                           |                         |
| 07 51 13 00-0048 SQ Vapor Permeable Synthetic Underlayment (GAF Deck-Armor™) .....  | 40.57                     |                         |
| <b>07 51 13 00-0049 Walkway Pads</b> (07 51 13 00-0001)   |                           |                         |
| Note: Set in hot asphalt or cold adhesive.  |                           |                         |
| 07 51 13 00-0050 LF 5/16" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad .....   | 32.95                     |                         |
| 07 51 13 00-0051 LF 1/2" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad .....  | 39.27                     |                         |
| <b>07 51 13 00-0052 Cant And Tapered Edge Strips</b> (07 51 13 00-0001)   |                           |                         |
| 07 51 13 00-0053 LF 2" x 2" Perlite Cant Strip .....  | 4.48                      |                         |
| 07 51 13 00-0054 LF 3" x 3" Perlite Cant Strip .....  | 4.63                      |                         |
| 07 51 13 00-0055 LF 4" x 4" Perlite Cant Strip .....  | 5.32                      |                         |
| 07 51 13 00-0056 LF 3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally .....  | 4.36                      |                         |
| 07 51 13 00-0057 LF 4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally .....  | 4.51                      |                         |
| 07 51 13 00-0058 LF 1/2" x 6" Perlite Tapered Edge Strip .....  | 5.01                      |                         |
| 07 51 13 00-0059 LF 1/2" x 12" Perlite Tapered Edge Strip .....   | 5.80                      |                         |
| 07 51 13 00-0060 LF 1" x 12" Perlite Tapered Edge Strip .....   | 6.02                      |                         |
| 07 51 13 00-0061 LF 1" x 24" Perlite Tapered Edge Strip .....   | 6.84                      |                         |
| 07 51 13 00-0062 LF 1-1/2" x 12" Perlite Tapered Edge Strip .....   | 6.76                      |                         |
| 07 51 13 00-0063 LF 1-1/2" x 18" Perlite Tapered Edge Strip .....   | 8.26                      |                         |
| 07 51 13 00-0064 LF 1-1/2" x 24" Perlite Tapered Edge Strip .....   | 9.34                      |                         |
| <b>07 51 13 00-0065 Asphalt Primer</b> (07 51 13 00-0001)   |                           |                         |
| 07 51 13 00-0066 SQ Asphalt Primer For Roofing Systems .....  | 37.65                     |                         |
| Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based<br>roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal<br>surfaces. |                           |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 07 51 13 00-0067 |       |     |     | <b>Demolish Built-Up Roofing</b> <small>(07 51 13 00-0001)</small><br>Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00-0000 for chutes, dumpsters and hauling. |                        |                      |
| 07 51 13 00-0068 | SQ    |     |     | Demolish Gravel/Slag Surfaced, Built Up Roofing System ..... 389.08<br><i>For Up To 10, Add 96.53</i><br><i>For &gt;10 To 25, Add 57.92</i>   |                        |                      |
| 07 51 13 00-0069 | SQ    |     |     | Demolish Cap Sheet Surfaced, Built Up Roofing System ..... 300.15<br>Note: Includes protective surfacing.<br><i>For Up To 10, Add 74.46</i><br><i>For &gt;10 To 25, Add 44.68</i>   |                        |                      |
| 07 51 13 00-0070 |       |     |     | <b>Roofing System Warranty</b> <small>(07 51 13 00-0001)</small><br>Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.  |                        |                      |
| 07 51 13 00-0071 | EA    |     |     | Up To 50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty ..... 630.21   |                        |                      |
| 07 51 13 00-0072 | SQ    |     |     | >50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty ..... 9.00  |                        |                      |
| 07 51 13 00-0073 | EA    |     |     | Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty ..... 720.24   |                        |                      |
| 07 51 13 00-0074 | SQ    |     |     | >50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty ..... 14.40   |                        |                      |
| 07 51 13 00-0075 | EA    |     |     | Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty ..... 990.33   |                        |                      |
| 07 51 13 00-0076 | SQ    |     |     | >50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty ..... 19.81   |                        |                      |
| 07 51 13 00-0077 |       |     |     | <b>Built-Up Roofing Components (Tremco)</b> <small>(07 51 13)</small><br>Note: All tasks presented as a single layer. Adhesives are priced separately.  |                        |                      |
| 07 51 13 00-0078 |       |     |     | <b>Cold Applied BUR Base Plies And Ply Sheets</b> <small>(07 51 13 00-0077)</small>   |                        |                      |
| 07 51 13 00-0079 | SQ    |     |     | BURmastic Composite Ply, Cold Applied BUR Component ..... 144.27<br>Note: Asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.   |                        |                      |
| 07 51 13 00-0080 | SQ    |     |     | BURmastic Premium Composite Ply, Cold Applied BUR Component ..... 175.09<br>Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.  |                        |                      |
| 07 51 13 00-0081 | SQ    |     |     | BURmastic Supreme Composite Ply, Cold Applied BUR Component ..... 201.56<br>Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.  |                        |                      |
| 07 51 13 00-0082 | SQ    |     |     | 28 LB BURmastic Glass Ply, Cold Applied BUR Component ..... 45.75<br>Note: Asphalt coated fiberglass base or ply sheet. Type II.  |                        |                      |
| 07 51 13 00-0083 | SQ    |     |     | 33 LB BURmastic Glass Ply, Cold Applied BUR Component ..... 66.40<br>Note: Asphalt coated fiberglass base or ply sheet. Type II.  |                        |                      |
| 07 51 13 00-0084 | SQ    |     |     | POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component ..... 276.28<br>Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.  |                        |                      |
| 07 51 13 00-0085 | SQ    |     |     | POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component ..... 255.56<br>Note: A smooth surfaced, non-woven fiberglass/scrium fiberglass bilaminate reinforced modified bitumen membrane. 120 mil.  |                        |                      |
| 07 51 13 00-0086 |       |     |     | <b>Hot Or Cold Applied Modified Bitumen Cap Membrane</b> <small>(07 51 13 00-0077)</small>  |                        |                      |
| 07 51 13 00-0087 | SQ    |     |     | POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component ..... 156.04<br>Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.   |                        |                      |
| 07 51 13 00-0088 | SQ    |     |     | POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component ..... 413.89<br>Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.  |                        |                      |
| 07 51 13 00-0089 | SQ    |     |     | POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component ..... 684.85<br>Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.  |                        |                      |
| 07 51 13 00-0090 | SQ    |     |     | POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component ..... 182.18<br>Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.   |                        |                      |
| 07 51 13 00-0091 | SQ    |     |     | POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component ..... 279.83<br>Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.  |                        |                      |
| 07 51 13 00-0092 | SQ    |     |     | POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component ..... 679.31<br>Note: Fire rated, granule surfaced, polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.   |                        |                      |
| 07 51 13 00-0093 | SQ    |     |     | POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component ..... 494.17<br>Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G. 120 mils.  |                        |                      |
| 07 51 13 00-0094 | SQ    |     |     | POWERply HE FR Cap Sheet, Hot Applied BUR Component ..... 490.45<br>Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.  |                        |                      |
| 07 51 13 00-0095 |       |     |     | <b>Self Adhesive Base Plies And Ply Sheets</b> <small>(07 51 13 00-0077)</small>  |                        |                      |
| 07 51 13 00-0096 | SQ    |     |     | POWERply SA Base Sheet, Self Adhesive Roofing ..... 284.69<br>Note: A self adhesive, fiberglass reinforced Styrene-Butadiene-Styrene (SBS) modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.  |                        |                      |
| 07 51 13 00-0097 | SQ    |     |     | POWERply SA FR Membrane, Self Adhesive Roofing ..... 563.51<br>Note: A fire rated, granule surfaced, polyester reinforced, self adhesive Styrene-Butadiene-Styrene (SBS) modified bitumen membrane. Type I, Grade G. 130 mils.  |                        |                      |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>07 51 13 00-0098 Flashings</b> <small>(07 51 13 00-0077)</small>  |                           |                         |
| 07 51 13 00-0099 LF 11-1/2" Hypalon Elastomeric Flashing.....<br>Note: 45 mils.  | 17.38                     |                         |
| 07 51 13 00-0100 LF 19" Hypalon Elastomeric Flashing .....<br>Note: 45 mils.   | 28.15                     |                         |
| 07 51 13 00-0101 LF 25" Hypalon Elastomeric Flashing .....<br>Note: 45 mils.   | 37.38                     |                         |
| 07 51 13 00-0102 LF 38" Hypalon Elastomeric Flashing .....<br>Note: 45 mils.   | 54.88                     |                         |
| 07 51 13 00-0103 LF 60-1/2" Hypalon Elastomeric Flashing.....<br>Note: 45 mils.  | 90.30                     |                         |
| 07 51 13 00-0104 LF 12" TRA Elastomeric Flashing Membrane.....<br>Note: Polyester reinforced flashing membrane. 45 mils.   | 13.71                     |                         |
| 07 51 13 00-0105 LF 18" TRA Elastomeric Flashing Membrane.....<br>Note: Polyester reinforced flashing membrane. 45 mils.   | 22.27                     |                         |
| 07 51 13 00-0106 LF 24" TRA Elastomeric Flashing Membrane.....<br>Note: Polyester reinforced flashing membrane. 45 mils.   | 29.69                     |                         |
| 07 51 13 00-0107 LF 36" TRA Elastomeric Flashing Membrane.....<br>Note: Polyester reinforced flashing membrane. 45 mils.   | 43.43                     |                         |
| 07 51 13 00-0108 LF 60" TRA Elastomeric Flashing Membrane.....<br>Note: Polyester reinforced flashing membrane. 45 mils.   | 73.06                     |                         |
| 07 51 13 00-0109 LF 4" BURmesh Fabric.....<br>Note: Glass membrane for reinforcement or repair of roof membranes and flashings.  | 3.78                      |                         |
| 07 51 13 00-0110 LF 6" BURmesh Fabric.....<br>Note: Glass membrane for reinforcement or repair of roof membranes and flashings.  | 3.95                      |                         |
| 07 51 13 00-0111 LF 12" BURmesh Fabric.....<br>Note: Glass membrane for reinforcement or repair of roof membranes and flashings.   | 5.58                      |                         |
| 07 51 13 00-0112 LF 36" BURmesh Fabric.....<br>Note: Glass membrane for reinforcement or repair of roof membranes and flashings.   | 14.45                     |                         |
| <b>07 51 13 00-0113 Cold Applied Adhesives</b> <small>(07 51 13 00-0077)</small>   |                           |                         |
| 07 51 13 00-0114 SQ BURmastic Inter-Ply Cold Applied Adhesive.....   | 176.03                    |                         |
| 07 51 13 00-0115 SQ BURmastic Flood Coat Cold Applied Adhesive.....  | 290.33                    |                         |
| 07 51 13 00-0116 SQ BURmastic SF Inter-Ply Cold Applied Adhesive.....  | 224.44                    |                         |
| 07 51 13 00-0117 SQ BURmastic LV Inter-Ply Cold Applied Adhesive.....  | 176.03                    |                         |
| 07 51 13 00-0118 SQ POWERply Standard Inter-Ply Cold Applied Adhesive.....   | 88.77                     |                         |
| 07 51 13 00-0119 SQ POWERply Standard Flood Coat Cold Applied Adhesive.....  | 197.97                    |                         |
| 07 51 13 00-0120 SQ POWERply White On White Cold Applied Adhesive.....   | 195.34                    |                         |
| 07 51 13 00-0121 SQ Rock-It Cold Applied Adhesive For Gravel Applications.....   | 547.21                    |                         |
| 07 51 13 00-0122 SQ FAS-n-FREE Cold Applied Adhesive (Beads 12" OC).....<br>Note: For insulation only.   | 302.67                    |                         |
| 07 51 13 00-0123 SQ ECOLastic Cold Applied Adhesive.....   | 339.45                    |                         |
| <b>07 51 13 00-0124 Hot Applied Adhesives</b> <small>(07 51 13 00-0077)</small>  |                           |                         |
| 07 51 13 00-0125 SQ Premium III Asphalt Inter-Ply Hot Applied Adhesive.....  | 62.75                     |                         |
| 07 51 13 00-0126 SQ Premium III Asphalt Flood Coat Hot Applied Adhesive.....   | 116.83                    |                         |
| <b>07 51 13 00-0127 Flashings Adhesives</b> <small>(07 51 13 00-0077)</small>  |                           |                         |
| 07 51 13 00-0128 LF Sheeting Bond Flashing Adhesive.....<br>Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.  | 20.97                     |                         |
| 07 51 13 00-0129 LF Polyroof SF Flashing Mastic.....<br>Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals. | 27.90                     |                         |
| 07 51 13 00-0130 LF ELS Flashing Mastic.....<br>Note: Used for repairing flashings and asphalt built-up roof defects.  | 16.81                     |                         |
| 07 51 13 00-0131 LF TremSEAL D General Purpose Sealant.....  | 6.38                      |                         |
| 07 51 13 00-0132 LF TremSEAL HP High Performance Sealant.....  | 6.56                      |                         |
| 07 51 13 00-0133 LF TremSEAL S Silicone Sealant.....   | 6.41                      |                         |
| <b>07 51 13 00-0134 Surfacing</b> <small>(07 51 13 00-0077)</small>  |                           |                         |
| 07 51 13 00-0135 SQ TremLastic SP Non-Fibred Elastomeric Emulsion Cold Applied Coating.....  | 262.82                    |                         |
| 07 51 13 00-0136 SQ ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating.....   | 587.30                    |                         |
| 07 51 13 00-0137 SQ Polar Coat.....  | 149.93                    |                         |
| 07 51 13 00-0138 SQ Alumanation 301, Asphalt Based, Fibrated Aluminum Roof Coating.....  | 184.15                    |                         |
| 07 51 13 00-0139 SQ Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls.....   | 537.47                    |                         |
| 07 51 13 00-0140 SQ Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls.....   | 242.36                    |                         |
| 07 51 13 00-0141 SQ 100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB).....   | 69.36                     |                         |
| <b>07 51 13 00-0142 Walkway Protection Pads</b> <small>(07 51 13 00-0077)</small>  |                           |                         |
| 07 51 13 00-0143 LF 36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®).....  | 33.64                     |                         |
| <b>07 51 13 00-0144 Primer</b> <small>(07 51 13 00-0077)</small>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 51 13 00-0145 SQ TREMprime WB Primer .....<br>Note: Water based polymer modified asphalt primer.  | 37.93                     |                         |
| 07 51 13 00-0146 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating .....  | 86.06                     |                         |
| <b>07 51 13 00-0147 Liquid Applied Roofing (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0148 SQ Trem-LAR LRM H Waterproofing (Horizontal) .....<br>Note: One part liquid applied elastomeric roofing membrane. 60 mils.  | 446.55                    |                         |
| 07 51 13 00-0149 SQ Trem-LAR LRM V Waterproofing (Vertical) .....<br>Note: One part liquid applied elastomeric roofing membrane. 60 mils.  | 454.54                    |                         |
| 07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB,<br>Concrete Or Single Ply Surfaces .....<br>Note: Two part liquid applied polyurethane roof coating. 48 mils. | 585.00                    |                         |
| 07 51 13 00-0151 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces .....<br>Note: Two part liquid applied polyurethane roof coating. 64 mils.                               | 761.75                    |                         |
| 07 51 13 00-0152 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating .....<br>Note: Two part liquid applied polyurethane roof coating. 32 mils.  | 443.29                    |                         |
| 07 51 13 00-0153 SQ AlphaGuard Glass Mat .....<br>Note: Reinforcement mat for AlphaGuard systems.  | 85.13                     |                         |
| 07 51 13 00-0154 SQ AlphaGuard C-Prime Primer .....<br>Note: 100% solids epoxy primer for concrete surfaces.   | 85.84                     |                         |
| 07 51 13 00-0155 SQ AlphaGuard M-Prime Primer .....<br>Note: Water based primer for metal and plastic surfaces.  | 92.32                     |                         |
| 07 51 13 00-0156 SQ Geogard Primer .....<br>Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.   | 67.82                     |                         |
| 07 51 13 00-0157 SQ AlphaGuard Primer WB .....<br>Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the<br>application of AlphaGuard systems.                                      | 60.91                     |                         |
| <b>07 51 13 00-0158 Atactic-Polypropylene (APP) Products (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0159 SQ POWERply Atactic-Polypropylene (APP) Base Sheet .....  | 230.30                    |                         |
| 07 51 13 00-0160 SQ POWERply Atactic-Polypropylene (APP) FR .....  | 436.14                    |                         |
| 07 51 13 00-0161 SQ POWERply Atactic-Polypropylene (APP) Smooth .....  | 349.51                    |                         |
| <b>07 51 13 00-0162 Tri-Polymer Alloy (TPA) White Membrane (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0163 SQ 45 Mil Tri-Polymer Alloy (TPA) White Membrane .....  | 611.24                    |                         |
| 07 51 13 00-0164 SQ 60 Mil Tri-Polymer Alloy (TPA) White Membrane .....  | 840.16                    |                         |
| 07 51 13 00-0165 SQ 80 Mil Tri-Polymer Alloy (TPA) White Membrane .....  | 955.42                    |                         |
| <b>07 51 13 00-0166 Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0167 SQ 45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane .....  | 703.82                    |                         |
| 07 51 13 00-0168 SQ 60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane .....  | 864.52                    |                         |
| 07 51 13 00-0169 SQ 80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane .....  | 1,058.72                  |                         |
| <b>07 51 13 00-0170 Tri-Polymer Alloy (TPA) Membrane Accessories (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0171 EA >1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco) .....   | 125.78                    |                         |
| 07 51 13 00-0172 EA >4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco) .....   | 142.87                    |                         |
| 07 51 13 00-0173 LF 36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco) .....  | 20.05                     |                         |
| 07 51 13 00-0174 SQ Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco) .....   | 68.61                     |                         |
| <b>07 51 13 00-0175 Thermoplastic Polyolefin (TPO) Polyester White Membrane (07 51 13 00-0077)</b>   |                           |                         |
| 07 51 13 00-0176 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane .....   | 326.60                    |                         |
| 07 51 13 00-0177 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane .....   | 331.25                    |                         |
| 07 51 13 00-0178 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane .....   | 592.61                    |                         |
| <b>07 51 13 00-0179 Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane (07 51 13 00-0077)</b>   |                           |                         |
| 07 51 13 00-0180 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane .....   | 380.64                    |                         |
| 07 51 13 00-0181 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane .....   | 429.71                    |                         |
| 07 51 13 00-0182 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane .....   | 626.99                    |                         |
| <b>07 51 13 00-0183 Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremplly HP 4510) (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0184 SQ 45 Mil Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremplly HP 4510) .....  | 1,029.66                  |                         |
| <b>07 51 13 00-0185 Single Ply Adhesives (07 51 13 00-0077)</b>  |                           |                         |
| 07 51 13 00-0186 SQ Low VOC, TPA Bonding Adhesive (Tremco) .....   | 165.76                    |                         |
| 07 51 13 00-0187 SQ Water Based, TPA Bonding Adhesive (Tremco) .....   | 187.39                    |                         |
| 07 51 13 00-0188 SQ Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco) .....  | 162.62                    |                         |
| 07 51 13 00-0189 SQ Low VOC, TPO Bonding Adhesive (Tremco) .....   | 108.07                    |                         |



**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |   |          |  |
|------------------|---|----------|--|
| 07 51 13 00-0190 | Warranty (Tremco) <small>(07 51 13 00-0077)</small>   |          |  |
| 07 51 13 00-0191 | EA Up To 10,000 SF 15 Year Roofing System Warranty .....  | 1,500.00 |  |
| 07 51 13 00-0192 | SF >10,000 SF 15 Year Roofing System Warranty .....   | 0.15     |  |
| 07 51 13 00-0193 | EA Up To 10,000 SF 20 Year Roofing System Warranty .....  | 2,000.00 |  |
| 07 51 13 00-0194 | SF >10,000 SF 20 Year Roofing System Warranty .....   | 0.20     |  |
| 07 51 13 00-0195 | <b>Built-Up Roofing Components (Garland)</b> <small>(07 51 13)</small>  |          |  |
|                  | Note: All tasks presented as a single layer. Adhesives are priced separately.   |          |  |
| 07 51 13 00-0196 | <b>Modified Cap Membranes</b> <small>(07 51 13 00-0195)</small>   |          |  |
|                  | See CSI section 07 51 13 00-0220 for base membrane.   |          |  |
| 07 51 13 00-0197 | <b>Modified Cap Membranes, Hot/Cold Applied</b> <small>(07 51 13 00-0196)</small>   |          |  |
|                  | Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.  |          |  |
| 07 51 13 00-0198 | SQ Stressply® FR Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane, Minimum 145 Mil .....  | 719.81   |  |
| 07 51 13 00-0199 | SQ Stressply® Plus Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane With Recycled Rubber, 105 Mil .....   | 514.92   |  |
| 07 51 13 00-0200 | SQ Stressply® Plus FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil .....                                | 637.57   |  |
| 07 51 13 00-0201 | SQ Stressply® E Eco-Responsible, Smooth Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials .....                                    | 662.53   |  |
| 07 51 13 00-0202 | SQ Stressply® E FR Mineral Eco-Responsible, Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil .....               | 922.49   |  |
| 07 51 13 00-0203 | SQ Stressply® EUV Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Modified Membrane With Recycled Rubber, 160 Mil ..... | 1,037.05 |  |
| 07 51 13 00-0204 | SQ Versiply® III 80 Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 80 Mil .....  | 435.37   |  |
|                  | Note: Low strength cap sheet for hot or cold modified systems used with gravel.   |          |  |
| 07 51 13 00-0205 | SQ Versiply® III Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Minimum 145 Mil .....  | 549.45   |  |
| 07 51 13 00-0206 | SQ BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 140 Mil .....   | 335.95   |  |
| 07 51 13 00-0207 | <b>Modified Cap Membranes, Self-Adhering</b> <small>(07 51 13 00-0196)</small>  |          |  |
|                  | Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.  |          |  |
| 07 51 13 00-0208 | SQ Stressply® SA FR Mineral Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil .....  | 651.51   |  |
|                  | Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.   |          |  |
| 07 51 13 00-0209 | <b>Modified Cap Membranes, Torch-Applied</b> <small>(07 51 13 00-0196)</small>  |          |  |
|                  | Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.  |          |  |
| 07 51 13 00-0210 | SQ Stressply® IV Dual Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil .....   | 802.07   |  |
|                  | Note: Smooth surfaced Styrene-Butadiene-Styrene (SBS) torch modified top ply of torch system with gravel.   |          |  |
| 07 51 13 00-0211 | SQ Stressply® IV Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Minimum 195 Mil .....   | 872.57   |  |
| 07 51 13 00-0212 | SQ Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil .....                                    | 919.56   |  |
| 07 51 13 00-0213 | SQ Stressply® IV Plus Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil .....  | 840.25   |  |
| 07 51 13 00-0214 | SQ Stressply® IV Plus Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Mineral Surfaced Membrane, Torch Applied, 195 Mil .....  | 890.19   |  |
| 07 51 13 00-0215 | SQ Stressply® IV Plus UV Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Reflective Mineral Membrane, Torch Applied, 195 Mil .....  | 934.25   |  |
| 07 51 13 00-0216 | <b>Modified Cap Membranes, Coal Tar Pitch Systems</b> <small>(07 51 13 00-0196)</small>   |          |  |
|                  | Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.  |          |  |
| 07 51 13 00-0217 | SQ Millennium® Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 120 Mil .....   | 739.24   |  |
| 07 51 13 00-0218 | SQ Millennium® FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil .....  | 1,169.23 |  |
| 07 51 13 00-0219 | SQ Millennium® Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 160 Mil .....   | 951.88   |  |
| 07 51 13 00-0220 | <b>Base Ply</b> <small>(07 51 13 00-0195)</small>   |          |  |
|                  | Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems. See CSI section 07 51 13 00-0196 for cap membrane.                                       |          |  |
| 07 51 13 00-0221 | SQ Flexbase® E120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil .....   | 658.12   |  |
| 07 51 13 00-0222 | SQ Flexbase® 80 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil .....  | 413.58   |  |
| 07 51 13 00-0223 | SQ HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil .....  | 94.65    |  |
|                  | Note: Glasbase used in cold system, nailed to deck, or inner ply 2 plies with cap.  |          |  |
| 07 51 13 00-0224 | SQ HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil .....   | 62.63    |  |
|                  | Note: Inner ply felts for hot applied built up and modified BUR systems.  |          |  |
| 07 51 13 00-0225 | SQ HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil .....   | 76.27    |  |
| 07 51 13 00-0226 | SQ HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil .....   | 82.88    |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 51 13 00-0227 SQ HPR® Tribase Premium Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet, 60 Mil<br>Note: Inner plies for cold applied modified, Styrene-Butadiene-Styrene (SBS) modified, or 2 plies under cap sheet. | 128.99                    |                         |
| 07 51 13 00-0228 SQ Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil   | 419.07                    |                         |
| 07 51 13 00-0229 SQ HPR® SA FR Base Sheet Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil<br>Note: Self adhering base ply for self adhering 2 ply system.             | 361.46                    |                         |
| 07 51 13 00-0230 SQ SA Base IV Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With StressPly Cap Sheets, 110 Mil  | 337.15                    |                         |
| 07 51 13 00-0231 SQ StressBase® 120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil  | 367.08                    |                         |
| 07 51 13 00-0232 SQ StressBase® 80 Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil  | 304.66                    |                         |
| 07 51 13 00-0233 LF Garmesh® 6" Styrene-Butadiene-Styrene (SBS) Coated Woven Fiberglass Reinforcing Fabric  | 5.42                      |                         |
| 07 51 13 00-0234 LF Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems   | 15.05                     |                         |
| 07 51 13 00-0235 SQ Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems  | 72.97                     |                         |
| 07 51 13 00-0236 LF Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems  | 7.06                      |                         |
| 07 51 13 00-0237 LF Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems   | 5.12                      |                         |
| 07 51 13 00-0238 LF Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems   | 5.98                      |                         |
| 07 51 13 00-0239 SQ HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications  | 159.56                    |                         |
| <br><b>07 51 13 00-0240 Coatings And Mastics For Roof Installation, Restoration And Repairs</b> <small>(07 51 13 00-0195)</small>   |                           |                         |
| 07 51 13 00-0241 SQ Water Based Roof Primer, GarlaPrime VOC Primer  | 46.08                     |                         |
| 07 51 13 00-0242 SQ Black-Knight® Primer  | 42.63                     |                         |
| 07 51 13 00-0243 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply  | 175.69                    |                         |
| 07 51 13 00-0244 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ)   | 185.96                    |                         |
| 07 51 13 00-0245 SQ Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ)  | 296.17                    |                         |
| 07 51 13 00-0246 SQ Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply   | 476.91                    |                         |
| 07 51 13 00-0247 SQ Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat   | 490.60                    |                         |
| 07 51 13 00-0248 SQ Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)   | 229.23                    |                         |
| 07 51 13 00-0249 SQ Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration   | 379.01                    |                         |
| 07 51 13 00-0250 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)   | 585.13                    |                         |
| 07 51 13 00-0251 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration   | 972.36                    |                         |
| 07 51 13 00-0252 SQ Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproof, Interply  | 407.09                    |                         |
| 07 51 13 00-0253 SQ Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproof, Flood Coat  | 420.78                    |                         |
| 07 51 13 00-0254 SQ Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only  | 893.24                    |                         |
| 07 51 13 00-0255 SQ Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only  | 386.55                    |                         |
| 07 51 13 00-0256 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply   | 188.80                    |                         |
| 07 51 13 00-0257 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat   | 202.49                    |                         |
| 07 51 13 00-0258 SQ Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel  | 175.85                    |                         |
| 07 51 13 00-0259 SQ Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recoverers   | 164.18                    |                         |
| 07 51 13 00-0260 SQ Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products<br>Note: Adheres all insulation layers for cold systems.   | 20.67                     |                         |
| 07 51 13 00-0261 SQ Pyramic® Plus LO White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required   | 199.36                    |                         |
| 07 51 13 00-0262 SQ Pyramic® Plus LO Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System  | 193.26                    |                         |
| 07 51 13 00-0263 LF Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh  | 24.52                     |                         |
| 07 51 13 00-0264 SQ Solex® White, Kynar® Acrylic Topcoat Roof Coating Used With Pyramic Base Coat   | 258.14                    |                         |
| 07 51 13 00-0265 SQ Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric  | 1,478.18                  |                         |
| 07 51 13 00-0266 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ)   | 328.98                    |                         |
| 07 51 13 00-0267 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel  | 401.53                    |                         |
| 07 51 13 00-0268 SQ Weatherking® Cold Applied Rubber Modified Asphalt Interply Adhesive For Slopes Up To 3:12, Interply   | 149.35                    |                         |
| 07 51 13 00-0269 SQ Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System   | 492.46                    |                         |
| 07 51 13 00-0270 SQ Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply<br>Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.             | 148.23                    |                         |

**07 52 Modified Bituminous Membrane Roofing** (07 50)

**07 52 13 Atactic-Polypropylene Modified Bituminous Membrane Roofing** (07 52)

Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**07 52 13 11 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing** (07 52 13)

|                  |  |        |  |
|------------------|--|--------|--|
| 07 52 13 11-0001 | Cold Adhesive Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 11)   |        |  |
|                  | Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required. |        |  |
| 07 52 13 11-0002 | Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 11-0001)  |        |  |
| 07 52 13 11-0003 | SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied  | 214.18 |  |
|                  | For Up To 10, Add  | 50.25  |  |
|                  | For >10 To 20, Add   | 26.98  |  |
|                  | For >20 To 40, Add   | 14.41  |  |
|                  | For >75 To 100, Deduct   | -7.21  |  |
|                  | For >100 To 200, Deduct  | -15.34 |  |
|                  | For >200, Deduct   | -22.55 |  |
| 07 52 13 11-0004 | SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied   | 261.04 |  |
|                  | For Up To 10, Add  | 59.62  |  |
|                  | For >10 To 20, Add   | 31.66  |  |
|                  | For >20 To 40, Add   | 16.76  |  |
|                  | For >75 To 100, Deduct   | -8.38  |  |
|                  | For >100 To 200, Deduct  | -17.68 |  |
|                  | For >200, Deduct   | -26.06 |  |
| 07 52 13 11-0005 | SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied  | 410.68 |  |
|                  | For Up To 10, Add  | 89.55  |  |
|                  | For >10 To 20, Add   | 46.63  |  |
|                  | For >20 To 40, Add   | 24.24  |  |
|                  | For >75 To 100, Deduct   | -12.12 |  |
|                  | For >100 To 200, Deduct  | -25.17 |  |
|                  | For >200, Deduct   | -37.28 |  |
| 07 52 13 11-0006 | SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied   | 414.20 |  |
|                  | For Up To 10, Add  | 90.95  |  |
|                  | For >10 To 20, Add   | 47.51  |  |
|                  | For >20 To 40, Add   | 24.77  |  |
|                  | For >75 To 100, Deduct   | -12.38 |  |
|                  | For >100 To 200, Deduct  | -25.78 |  |
|                  | For >200, Deduct   | -38.16 |  |
| 07 52 13 11-0007 | SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied  | 296.01 |  |
|                  | For Up To 10, Add  | 67.32  |  |
|                  | For >10 To 20, Add   | 35.69  |  |
|                  | For >20 To 40, Add   | 18.86  |  |
|                  | For >75 To 100, Deduct   | -9.43  |  |
|                  | For >100 To 200, Deduct  | -19.87 |  |
|                  | For >200, Deduct   | -29.30 |  |
|                  | For Factory Applied White Reflective Surfacing, Add  | 104.40 |  |
| 07 52 13 11-0008 | SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied  | 343.41 |  |
|                  | For Up To 10, Add  | 76.80  |  |
|                  | For >10 To 20, Add   | 40.43  |  |
|                  | For >20 To 40, Add   | 21.23  |  |
|                  | For >75 To 100, Deduct   | -10.61 |  |
|                  | For >100 To 200, Deduct  | -22.24 |  |
|                  | For >200, Deduct   | -32.86 |  |
|                  | For Factory Applied White Reflective Surfacing, Add  | 104.40 |  |
| 07 52 13 11-0009 | SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied  | 472.56 |  |
|                  | For Up To 10, Add  | 102.63 |  |
|                  | For >10 To 20, Add   | 53.34  |  |
|                  | For >20 To 40, Add   | 27.69  |  |
|                  | For >75 To 100, Deduct   | -13.84 |  |
|                  | For >100 To 200, Deduct  | -28.70 |  |
|                  | For >200, Deduct   | -42.54 |  |
|                  | For Factory Applied White Reflective Surfacing, Add  | 104.40 |  |
| 07 52 13 11-0010 | Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing (07 52 13 11-0001)  |        |  |
| 07 52 13 11-0011 | SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied  | 5.98   |  |
| 07 52 13 11-0012 | SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied   | 9.15   |  |
|                  | For Factory Applied White Reflective Surfacing, Add  | 1.04   |  |

**07 52 13 13 Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing** (07 52 13)

|                  |   |  |  |
|------------------|---|--|--|
| 07 52 13 13-0001 | Torch-Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 13)                    |  |  |
|                  | Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.          |  |  |
| 07 52 13 13-0002 | Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 13-0001) |  |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 52 13 13-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Torch-Applied.....                               | 154.14                    |                         |
| <i>For Up To 10, Add</i>  | 38.23                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 20.97                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 11.41                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -5.70                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -12.33                    |                         |
| <i>For &gt;200, Deduct</i>  | -18.04                    |                         |
| 07 52 13 13-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....                        | 201.01                    |                         |
| <i>For Up To 10, Add</i>  | 47.60                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 25.65                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 13.75                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -6.88                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -14.68                    |                         |
| <i>For &gt;200, Deduct</i>  | -21.55                    |                         |
| 07 52 13 13-0005 SQ 150 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....                               | 241.59                    |                         |
| <i>For Up To 10, Add</i>  | 59.44                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 32.50                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 17.64                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -8.82                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -19.03                    |                         |
| <i>For &gt;200, Deduct</i>  | -27.85                    |                         |
| 07 52 13 13-0006 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....                               | 253.58                    |                         |
| <i>For Up To 10, Add</i>  | 61.83                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 33.70                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 18.24                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -9.12                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -19.63                    |                         |
| <i>For &gt;200, Deduct</i>  | -28.75                    |                         |
| 07 52 13 13-0007 SQ 180 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....                               | 350.93                    |                         |
| <i>For Up To 10, Add</i>  | 81.30                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 43.43                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 23.11                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -11.55                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -24.50                    |                         |
| <i>For &gt;200, Deduct</i>  | -36.05                    |                         |
| 07 52 13 13-0008 SQ 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....              | 241.59                    |                         |
| <i>For Up To 10, Add</i>  | 59.44                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 32.50                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 17.64                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -8.82                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -19.03                    |                         |
| <i>For &gt;200, Deduct</i>  | -27.85                    |                         |
| 07 52 13 13-0009 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....              | 256.58                    |                         |
| <i>For Up To 10, Add</i>  | 62.43                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 34.00                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 18.39                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -9.19                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -19.78                    |                         |
| <i>For &gt;200, Deduct</i>  | -28.97                    |                         |
| 07 52 13 13-0010 SQ 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....              | 350.93                    |                         |
| <i>For Up To 10, Add</i>  | 81.30                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 43.43                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 23.11                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -11.55                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -24.50                    |                         |
| <i>For &gt;200, Deduct</i>  | -36.05                    |                         |
| 07 52 13 13-0011 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....             | 251.03                    |                         |
| <i>For Up To 10, Add</i>  | 61.32                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 33.44                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 18.11                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -9.06                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -19.50                    |                         |
| <i>For &gt;200, Deduct</i>  | -28.56                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                    |                         |
| 07 52 13 13-0012 SQ 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....             | 265.58                    |                         |
| <i>For Up To 10, Add</i>  | 64.23                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 34.90                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 18.84                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -9.42                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -20.23                    |                         |
| <i>For &gt;200, Deduct</i>  | -29.65                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                    |                         |
| 07 52 13 13-0013 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied..... | 301.28                    |                         |
| <i>For Up To 10, Add</i>  | 71.37                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 38.47                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 20.62                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -10.31                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -22.01                    |                         |
| <i>For &gt;200, Deduct</i>  | -32.32                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                    |                         |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 52 13 13-0014 SQ 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....  | 305.63                    |                         |
| For Up To 10, Add  | 72.24                     |                         |
| For >10 To 20, Add   | 38.90                     |                         |
| For >20 To 40, Add   | 20.84                     |                         |
| For >75 To 100, Deduct   | -10.42                    |                         |
| For >100 To 200, Deduct  | -22.23                    |                         |
| For >200, Deduct   | -32.65                    |                         |
| For Factory Applied White Reflective Surfacing, Add  | 104.40                    |                         |
| 07 52 13 13-0015 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....  | 427.58                    |                         |
| For Up To 10, Add  | 96.63                     |                         |
| For >10 To 20, Add   | 51.10                     |                         |
| For >20 To 40, Add   | 26.94                     |                         |
| For >75 To 100, Deduct   | -13.47                    |                         |
| For >100 To 200, Deduct  | -28.33                    |                         |
| For >200, Deduct   | -41.80                    |                         |
| For Factory Applied White Reflective Surfacing, Add  | 104.40                    |                         |
| <b>07 52 13 13-0016 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing</b> (07 52 13 13-0001)  |                           |                         |
| 07 52 13 13-0017 SF 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied .....   | 3.52                      |                         |
| 07 52 13 13-0018 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied .....   | 3.67                      |                         |
| 07 52 13 13-0019 SF 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied .....   | 4.61                      |                         |
| 07 52 13 13-0020 SF 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied.....   | 3.76                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 13 13-0021 SF 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied .....  | 4.16                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 13 13-0022 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied .....  | 5.38                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| <b>07 52 13 14 Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing</b> (07 52 13)   |                           |                         |
| 07 52 13 14-0001 Mechanically Fastened Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 14)  |                           |                         |
| Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.  |                           |                         |
| 07 52 13 14-0002 Mechanically Fastened, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base And Ply Sheets (07 52 13 14-0001)  |                           |                         |
| 07 52 13 14-0003 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....   | 229.22                    |                         |
| For Up To 10, Add  | 49.55                     |                         |
| For >10 To 20, Add   | 25.70                     |                         |
| For >20 To 40, Add   | 13.31                     |                         |
| For >75 To 100, Deduct   | -6.66                     |                         |
| For >100 To 200, Deduct  | -13.77                    |                         |
| For >200, Deduct   | -20.43                    |                         |
| <b>07 52 16 Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing</b> (07 52)   |                           |                         |
| Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties. |                           |                         |
| <b>07 52 16 11 Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing</b> (07 52 16)   |                           |                         |
| 07 52 16 11-0001 Cold Adhesive Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 11)  |                           |                         |
| Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.   |                           |                         |
| 07 52 16 11-0002 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 11-0001)   |                           |                         |
| 07 52 16 11-0003 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied.....  | 168.30                    |                         |
| For Up To 10, Add  | 41.07                     |                         |
| For >10 To 20, Add   | 22.39                     |                         |
| For >20 To 40, Add   | 12.12                     |                         |
| For >75 To 100, Deduct   | -6.06                     |                         |
| For >100 To 200, Deduct  | -13.05                    |                         |
| For >200, Deduct   | -19.11                    |                         |
| 07 52 16 11-0004 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied.....  | 220.33                    |                         |
| For Up To 10, Add  | 51.48                     |                         |
| For >10 To 20, Add   | 27.59                     |                         |
| For >20 To 40, Add   | 14.72                     |                         |
| For >75 To 100, Deduct   | -7.36                     |                         |
| For >100 To 200, Deduct  | -15.65                    |                         |
| For >200, Deduct   | -23.01                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 52 16 11-0005 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied .....                   | 227.04                    |                         |
| <i>For Up To 10, Add</i>   | 52.82                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 28.26                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 15.06                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -7.53                     |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -15.98                    |                         |
| <i>For &gt;200, Deduct</i>   | -23.51                    |                         |
| 07 52 16 11-0006 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....            | 310.04                    |                         |
| <i>For Up To 10, Add</i>   | 69.42                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 36.56                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 19.21                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -9.60                     |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -20.13                    |                         |
| <i>For &gt;200, Deduct</i>   | -29.74                    |                         |
| 07 52 16 11-0007 SQ 125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....                    | 394.04                    |                         |
| <i>For Up To 10, Add</i>   | 86.22                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 44.96                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 23.41                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -11.70                    |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -24.33                    |                         |
| <i>For &gt;200, Deduct</i>   | -36.04                    |                         |
| 07 52 16 11-0008 SQ 140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied .....  | 327.93                    |                         |
| <i>For Up To 10, Add</i>   | 73.70                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 38.88                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 20.45                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -10.23                    |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -21.47                    |                         |
| <i>For &gt;200, Deduct</i>   | -31.69                    |                         |
| 07 52 16 11-0009 SQ 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied .....  | 336.96                    |                         |
| <i>For Up To 10, Add</i>   | 75.51                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 39.78                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 20.91                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -10.45                    |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -21.92                    |                         |
| <i>For &gt;200, Deduct</i>   | -32.37                    |                         |
| 07 52 16 11-0010 SQ 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied ..... | 294.66                    |                         |
| <i>For Up To 10, Add</i>   | 67.05                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 35.55                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 18.79                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -9.40                     |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -19.80                    |                         |
| <i>For &gt;200, Deduct</i>   | -29.20                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                    |                         |
| 07 52 16 11-0011 SQ 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied ..... | 298.56                    |                         |
| <i>For Up To 10, Add</i>   | 67.83                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 35.94                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 18.99                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -9.49                     |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -20.00                    |                         |
| <i>For &gt;200, Deduct</i>   | -29.49                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                    |                         |
| 07 52 16 11-0012 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied ..... | 334.56                    |                         |
| <i>For Up To 10, Add</i>   | 75.03                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 39.54                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 20.79                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -10.39                    |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -21.80                    |                         |
| <i>For &gt;200, Deduct</i>   | -32.19                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                    |                         |
| 07 52 16 11-0013 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied ..... | 340.56                    |                         |
| <i>For Up To 10, Add</i>   | 76.23                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 40.14                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 21.09                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -10.54                    |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -22.10                    |                         |
| <i>For &gt;200, Deduct</i>   | -32.64                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                    |                         |
| 07 52 16 11-0014 SQ 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied ..... | 393.06                    |                         |
| <i>For Up To 10, Add</i>   | 86.73                     |                         |
| <i>For &gt;10 To 20, Add</i>   | 45.39                     |                         |
| <i>For &gt;20 To 40, Add</i>   | 23.71                     |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -11.86                    |                         |
| <i>For &gt;100 To 200, Deduct</i>  | -24.72                    |                         |
| <i>For &gt;200, Deduct</i>   | -36.58                    |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                    |                         |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 07 52 16 11-0015 | SQ  |     | 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....                 | 488.70                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>  | 105.85                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 54.96                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 28.49                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>  | -14.25                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>   | -29.51                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>  | -43.75                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                 |                      |
| 07 52 16 11-0016 | SQ  |     | 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....     | 301.17                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>  | 68.35                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 36.20                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 19.12                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>  | -9.56                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>   | -20.13                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>  | -29.69                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                 |                      |
| 07 52 16 11-0017 | SQ  |     | 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....     | 310.56                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>  | 70.23                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 37.14                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 19.59                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>  | -9.79                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>   | -20.60                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>  | -30.39                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                 |                      |
| 07 52 16 11-0018 | SQ  |     | 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....     | 361.56                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>  | 80.43                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 42.24                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 22.14                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>  | -11.07                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>   | -23.15                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>  | -34.22                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                 |                      |
| 07 52 16 11-0019 | SQ  |     | 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....     | 362.76                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>  | 80.67                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 42.36                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 22.20                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>  | -11.10                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>   | -23.21                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>  | -34.31                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                 |                      |
| 07 52 16 11-0020 | SQ  |     | 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....     | 385.56                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>  | 85.23                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 44.64                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 23.34                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>  | -11.67                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>   | -24.35                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>  | -36.02                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 104.40                 |                      |
| 07 52 16 11-0021 |     |     | <b>Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing</b> <small>(07 52 16 11-0001)</small> |                        |                      |
| 07 52 16 11-0022 | SF  |     | 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....                   | 5.21                   |                      |
| 07 52 16 11-0023 | SF  |     | 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....                  | 4.79                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0024 | SF  |     | 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....                  | 4.82                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0025 | SF  |     | 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....                  | 5.24                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0026 | SF  |     | 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....                  | 5.77                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0027 | SF  |     | 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....                  | 6.73                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0028 | SF  |     | 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....      | 4.85                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0029 | SF  |     | 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....      | 4.94                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0030 | SF  |     | 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....      | 5.47                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0031 | SF  |     | 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....      | 5.69                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>  | 1.04                   |                      |
| 07 52 16 11-0032 | SF  |     | 145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....            | 7.56                   |                      |
| 07 52 16 11-0033 | SF  |     | 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....              | 14.30                  |                      |



|   |              |
|---|--------------|
| <b>Thermal And Moisture Protection</b>      | <b>07</b>    |
| <b>Membrane Roofing</b>                     | <b>07 50</b> |
| <b>Modified Bituminous Membrane Roofing</b> | <b>07 52</b> |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**07 52 16 12 Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing** (07 52 16)

|   |  |
|---|--|
| <p>07 52 16 12-0001 Hot-Mopped Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 12)</small><br/> <small>Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.</small></p> <p>07 52 16 12-0002 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 12-0001)</small></p> | <p>07 52 16 12-0003 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped..... 137.71<br/> <i>For Up To 10, Add</i> 35.09<br/> <i>For &gt;10 To 20, Add</i> 19.43<br/> <i>For &gt;20 To 40, Add</i> 10.66<br/> <i>For &gt;75 To 100, Deduct</i> -5.33<br/> <i>For &gt;100 To 200, Deduct</i> -11.60<br/> <i>For &gt;200, Deduct</i> -16.93</p> <p>07 52 16 12-0004 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped..... 189.75<br/> <i>For Up To 10, Add</i> 45.49<br/> <i>For &gt;10 To 20, Add</i> 24.63<br/> <i>For &gt;20 To 40, Add</i> 13.26<br/> <i>For &gt;75 To 100, Deduct</i> -6.63<br/> <i>For &gt;100 To 200, Deduct</i> -14.20<br/> <i>For &gt;200, Deduct</i> -20.83</p> <p>07 52 16 12-0005 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped..... 196.46<br/> <i>For Up To 10, Add</i> 46.84<br/> <i>For &gt;10 To 20, Add</i> 25.30<br/> <i>For &gt;20 To 40, Add</i> 13.60<br/> <i>For &gt;75 To 100, Deduct</i> -6.80<br/> <i>For &gt;100 To 200, Deduct</i> -14.54<br/> <i>For &gt;200, Deduct</i> -21.34</p> <p>07 52 16 12-0006 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Hot-Mopped..... 279.46<br/> <i>For Up To 10, Add</i> 63.44<br/> <i>For &gt;10 To 20, Add</i> 33.60<br/> <i>For &gt;20 To 40, Add</i> 17.75<br/> <i>For &gt;75 To 100, Deduct</i> -8.87<br/> <i>For &gt;100 To 200, Deduct</i> -18.69<br/> <i>For &gt;200, Deduct</i> -27.56</p> <p>07 52 16 12-0007 SQ 125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Hot-Mopped..... 363.46<br/> <i>For Up To 10, Add</i> 80.24<br/> <i>For &gt;10 To 20, Add</i> 42.00<br/> <i>For &gt;20 To 40, Add</i> 21.95<br/> <i>For &gt;75 To 100, Deduct</i> -10.97<br/> <i>For &gt;100 To 200, Deduct</i> -22.89<br/> <i>For &gt;200, Deduct</i> -33.86</p> <p>07 52 16 12-0008 SQ 140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... 297.41<br/> <i>For Up To 10, Add</i> 67.74<br/> <i>For &gt;10 To 20, Add</i> 35.94<br/> <i>For &gt;20 To 40, Add</i> 19.00<br/> <i>For &gt;75 To 100, Deduct</i> -9.50<br/> <i>For &gt;100 To 200, Deduct</i> -20.03<br/> <i>For &gt;200, Deduct</i> -29.53</p> <p>07 52 16 12-0009 SQ 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... 306.44<br/> <i>For Up To 10, Add</i> 69.55<br/> <i>For &gt;10 To 20, Add</i> 36.84<br/> <i>For &gt;20 To 40, Add</i> 19.45<br/> <i>For &gt;75 To 100, Deduct</i> -9.73<br/> <i>For &gt;100 To 200, Deduct</i> -20.48<br/> <i>For &gt;200, Deduct</i> -30.21</p> <p>07 52 16 12-0010 SQ 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped ..... 264.14<br/> <i>For Up To 10, Add</i> 61.09<br/> <i>For &gt;10 To 20, Add</i> 32.61<br/> <i>For &gt;20 To 40, Add</i> 17.34<br/> <i>For &gt;75 To 100, Deduct</i> -8.67<br/> <i>For &gt;100 To 200, Deduct</i> -18.37<br/> <i>For &gt;200, Deduct</i> -27.04<br/> <i>For Factory Applied White Reflective Surfacing, Add</i> 104.40</p> <p>07 52 16 12-0011 SQ 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped ..... 268.04<br/> <i>For Up To 10, Add</i> 61.87<br/> <i>For &gt;10 To 20, Add</i> 33.00<br/> <i>For &gt;20 To 40, Add</i> 17.53<br/> <i>For &gt;75 To 100, Deduct</i> -8.77<br/> <i>For &gt;100 To 200, Deduct</i> -18.56<br/> <i>For &gt;200, Deduct</i> -27.33<br/> <i>For Factory Applied White Reflective Surfacing, Add</i> 104.40</p> <p>07 52 16 12-0012 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped ..... 304.04<br/> <i>For Up To 10, Add</i> 69.07<br/> <i>For &gt;10 To 20, Add</i> 36.60<br/> <i>For &gt;20 To 40, Add</i> 19.33<br/> <i>For &gt;75 To 100, Deduct</i> -9.67<br/> <i>For &gt;100 To 200, Deduct</i> -20.36<br/> <i>For &gt;200, Deduct</i> -30.03<br/> <i>For Factory Applied White Reflective Surfacing, Add</i> 104.40</p> |
|---|--|



**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 52 16 12-0013 | SQ  |     | 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....             | 310.04                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 70.27                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 37.20                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 19.63                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -9.82                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -20.66                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -30.48                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0014 | SQ  |     | 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....             | 362.54                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 80.77                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 42.45                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 22.26                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -11.13                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -23.29                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -34.42                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0015 | SQ  |     | 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....             | 458.17                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 99.89                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 52.01                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 27.04                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -13.52                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -28.07                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -41.59                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0016 | SQ  |     | 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... | 270.65                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 62.39                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 33.26                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 17.66                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -8.83                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -18.70                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -27.53                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0017 | SQ  |     | 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... | 280.04                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 64.27                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 34.20                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 18.13                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -9.07                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -19.16                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -28.23                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0018 | SQ  |     | 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... | 331.04                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 74.47                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 39.30                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 20.68                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -10.34                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -21.71                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -32.06                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0019 | SQ  |     | 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... | 332.24                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 74.71                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 39.42                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 20.74                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -10.37                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -21.77                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -32.15                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0020 | SQ  |     | 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped..... | 355.04                 |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 79.27                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 41.70                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 21.88                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -10.94                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -22.91                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -33.86                 |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 104.40                 |                      |
| 07 52 16 12-0021 |     |     | <b>Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing</b> (07 52 16 12-0001)            |                        |                      |
| 07 52 16 12-0022 | SF  |     | 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....              | 5.01                   |                      |
| 07 52 16 12-0023 | SF  |     | 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....             | 4.59                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 1.04                   |                      |
| 07 52 16 12-0024 | SF  |     | 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....             | 4.62                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 1.04                   |                      |
| 07 52 16 12-0025 | SF  |     | 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....             | 4.98                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 1.04                   |                      |
| 07 52 16 12-0026 | SF  |     | 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....             | 5.04                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 1.04                   |                      |
| 07 52 16 12-0027 | SF  |     | 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....             | 5.57                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 1.04                   |                      |
| 07 52 16 12-0028 | SF  |     | 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....             | 6.53                   |                      |
|                  |     |     | <i>For Factory Applied White Reflective Surfacing, Add</i>   | 1.04                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 52 16 12-0029 SF 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped ..... | 4.65                      |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 1.04                      |                         |
| 07 52 16 12-0030 SF 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped ..... | 4.74                      |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 1.04                      |                         |
| 07 52 16 12-0031 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped ..... | 5.17                      |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 1.04                      |                         |
| 07 52 16 12-0032 SF 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped ..... | 5.49                      |                         |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 1.04                      |                         |
| 07 52 16 12-0033 SF 145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....       | 7.36                      |                         |
| 07 52 16 12-0034 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped .....         | 14.10                     |                         |

**07 52 16 13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing** (07 52 16)

07 52 16 13-0001 Torch-Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 13)  
 Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.

07 52 16 13-0002 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 13-0001)

|  |        |  |
|--|--------|--|
| 07 52 16 13-0003 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Torch-Applied .....                       | 283.58 |  |
| <i>For Up To 10, Add</i> .....   | 67.83  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 36.70  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 19.74  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -9.87  |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -21.13 |  |
| <i>For &gt;200, Deduct</i> .....   | -31.00 |  |
| 07 52 16 13-0004 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied .....             | 254.48 |  |
| <i>For Up To 10, Add</i> .....   | 62.01  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 33.79  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 18.28  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -9.14  |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -19.67 |  |
| <i>For &gt;200, Deduct</i> .....   | -28.81 |  |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 104.40 |  |
| 07 52 16 13-0005 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied .....             | 288.68 |  |
| <i>For Up To 10, Add</i> .....   | 68.85  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 37.21  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 19.99  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -10.00 |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -21.38 |  |
| <i>For &gt;200, Deduct</i> .....   | -31.38 |  |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 104.40 |  |
| 07 52 16 13-0006 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied .....             | 443.72 |  |
| <i>For Up To 10, Add</i> .....   | 99.86  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 52.71  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 27.75  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -13.87 |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -29.13 |  |
| <i>For &gt;200, Deduct</i> .....   | -43.01 |  |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 104.40 |  |
| 07 52 16 13-0007 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied ..... | 264.26 |  |
| <i>For Up To 10, Add</i> .....   | 63.97  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 34.76  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 18.77  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -9.39  |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -20.16 |  |
| <i>For &gt;200, Deduct</i> .....   | -29.55 |  |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 104.40 |  |
| 07 52 16 13-0008 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied ..... | 304.58 |  |
| <i>For Up To 10, Add</i> .....   | 72.03  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 38.80  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 20.79  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -10.39 |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -22.18 |  |
| <i>For &gt;200, Deduct</i> .....   | -32.57 |  |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 104.40 |  |
| 07 52 16 13-0009 SQ 165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied ..... | 317.57 |  |
| <i>For Up To 10, Add</i> .....   | 74.83  |  |
| <i>For &gt;10 To 20, Add</i> .....   | 40.24  |  |
| <i>For &gt;20 To 40, Add</i> .....   | 21.54  |  |
| <i>For &gt;75 To 100, Deduct</i> .....   | -10.77 |  |
| <i>For &gt;100 To 200, Deduct</i> .....  | -22.95 |  |
| <i>For &gt;200, Deduct</i> .....   | -33.72 |  |
| <i>For Factory Applied White Reflective Surfacing, Add</i> .....   | 104.40 |  |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 52 16 13-0010 SQ 180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....      | 411.68                    |                         |
| For Up To 10, Add  | 93.65                     |                         |
| For >10 To 20, Add   | 49.66                     |                         |
| For >20 To 40, Add   | 26.24                     |                         |
| For >75 To 100, Deduct   | -13.12                    |                         |
| For >100 To 200, Deduct  | -27.66                    |                         |
| For >200, Deduct   | -40.78                    |                         |
| For Factory Applied White Reflective Surfacing, Add  | 104.40                    |                         |
| <b>07 52 16 13-0011 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 13-0001)</b>                    |                           |                         |
| 07 52 16 13-0012 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....                    | 4.02                      |                         |
| 07 52 16 13-0013 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....                   | 4.00                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 16 13-0014 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....                   | 5.54                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 16 13-0015 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....       | 4.19                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 16 13-0016 SF 165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....       | 4.27                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 16 13-0017 SF 180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....       | 5.22                      |                         |
| For Factory Applied White Reflective Surfacing, Add  | 1.04                      |                         |
| 07 52 16 13-0018 SF 150 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....             | 5.42                      |                         |
| 07 52 16 13-0019 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....               | 13.12                     |                         |
| <b>07 52 16 14 Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)</b>                             |                           |                         |
| <b>07 52 16 14-0001 Mechanically Fastened Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 14)</b>               |                           |                         |
| Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.  |                           |                         |
| <b>07 52 16 14-0002 Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base And Ply Sheets (07 52 16 14-0001)</b> |                           |                         |
| 07 52 16 14-0003 SQ 35 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Mechanically Fastened.....                             | 177.52                    |                         |
| For Up To 10, Add  | 39.21                     |                         |
| For >10 To 20, Add   | 20.53                     |                         |
| For >20 To 40, Add   | 10.73                     |                         |
| For >75 To 100, Deduct   | -5.36                     |                         |
| For >100 To 200, Deduct  | -11.19                    |                         |
| For >200, Deduct   | -16.55                    |                         |
| 07 52 16 14-0004 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....                            | 136.47                    |                         |
| For Up To 10, Add  | 31.00                     |                         |
| For >10 To 20, Add   | 16.42                     |                         |
| For >20 To 40, Add   | 8.67                      |                         |
| For >75 To 100, Deduct   | -4.34                     |                         |
| For >100 To 200, Deduct  | -9.14                     |                         |
| For >200, Deduct   | -13.47                    |                         |
| 07 52 16 14-0005 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....                            | 176.88                    |                         |
| For Up To 10, Add  | 39.08                     |                         |
| For >10 To 20, Add   | 20.46                     |                         |
| For >20 To 40, Add   | 10.70                     |                         |
| For >75 To 100, Deduct   | -5.35                     |                         |
| For >100 To 200, Deduct  | -11.16                    |                         |
| For >200, Deduct   | -16.51                    |                         |
| 07 52 16 14-0006 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....                            | 221.52                    |                         |
| For Up To 10, Add  | 48.01                     |                         |
| For >10 To 20, Add   | 24.93                     |                         |
| For >20 To 40, Add   | 12.93                     |                         |
| For >75 To 100, Deduct   | -6.46                     |                         |
| For >100 To 200, Deduct  | -13.39                    |                         |
| For >200, Deduct   | -19.85                    |                         |
| 07 52 16 14-0007 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....                    | 278.22                    |                         |
| For Up To 10, Add  | 59.35                     |                         |
| For >10 To 20, Add   | 30.60                     |                         |
| For >20 To 40, Add   | 15.76                     |                         |
| For >75 To 100, Deduct   | -7.88                     |                         |
| For >100 To 200, Deduct  | -16.22                    |                         |
| For >200, Deduct   | -24.11                    |                         |
| <b>07 52 16 14-0008 Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 14-0001)</b>            |                           |                         |
| 07 52 16 14-0009 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened.....            | 3.47                      |                         |
| 07 52 16 14-0010 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened.....           | 3.55                      |                         |



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

**07 52 16 15 Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing** (07 52 16)

|                  |   |  |  |        |  |
|------------------|---|--|--|--------|--|
| 07 52 16 15-0001 | Self-Adhering Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing                      |  | <small>(07 52 16 15)</small><br>Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane. |        |  |
| 07 52 16 15-0002 | Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets        |  | <small>(07 52 16 15-0001)</small>  |        |  |
| 07 52 16 15-0003 | SQ 60 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering                   |  |  | 142.12 |  |
|                  | <i>For Up To 10, Add</i>  |  |  | 32.87  |  |
|                  | <i>For &gt;10 To 20, Add</i>  |  |  | 17.55  |  |
|                  | <i>For &gt;20 To 40, Add</i>  |  |  | 9.33   |  |
|                  | <i>For &gt;75 To 100, Deduct</i>  |  |  | -4.66  |  |
|                  | <i>For &gt;100 To 200, Deduct</i>   |  |  | -9.88  |  |
|                  | <i>For &gt;200, Deduct</i>  |  |  | -14.55 |  |
| 07 52 16 15-0004 | SQ 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering                   |  |  | 150.63 |  |
|                  | <i>For Up To 10, Add</i>  |  |  | 34.57  |  |
|                  | <i>For &gt;10 To 20, Add</i>  |  |  | 18.40  |  |
|                  | <i>For &gt;20 To 40, Add</i>  |  |  | 9.75   |  |
|                  | <i>For &gt;75 To 100, Deduct</i>  |  |  | -4.88  |  |
|                  | <i>For &gt;100 To 200, Deduct</i>   |  |  | -10.31 |  |
|                  | <i>For &gt;200, Deduct</i>  |  |  | -15.19 |  |
| 07 52 16 15-0005 | SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering                  |  |  | 254.53 |  |
|                  | <i>For Up To 10, Add</i>  |  |  | 55.69  |  |
|                  | <i>For &gt;10 To 20, Add</i>  |  |  | 29.04  |  |
|                  | <i>For &gt;20 To 40, Add</i>  |  |  | 15.12  |  |
|                  | <i>For &gt;75 To 100, Deduct</i>  |  |  | -7.56  |  |
|                  | <i>For &gt;100 To 200, Deduct</i>   |  |  | -15.71 |  |
|                  | <i>For &gt;200, Deduct</i>  |  |  | -23.27 |  |
| 07 52 16 15-0006 | SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering |  |  | 304.39 |  |
|                  | <i>For Up To 10, Add</i>  |  |  | 65.66  |  |
|                  | <i>For &gt;10 To 20, Add</i>  |  |  | 34.02  |  |
|                  | <i>For &gt;20 To 40, Add</i>  |  |  | 17.61  |  |
|                  | <i>For &gt;75 To 100, Deduct</i>  |  |  | -8.80  |  |
|                  | <i>For &gt;100 To 200, Deduct</i>   |  |  | -18.21 |  |
|                  | <i>For &gt;200, Deduct</i>  |  |  | -27.01 |  |
|                  | <i>For Factory Applied White Reflective Surfacing, Add</i>  |  |  | 104.40 |  |
| 07 52 16 15-0007 | SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering |  |  | 451.39 |  |
|                  | <i>For Up To 10, Add</i>  |  |  | 95.06  |  |
|                  | <i>For &gt;10 To 20, Add</i>  |  |  | 48.72  |  |
|                  | <i>For &gt;20 To 40, Add</i>  |  |  | 24.96  |  |
|                  | <i>For &gt;75 To 100, Deduct</i>  |  |  | -12.48 |  |
|                  | <i>For &gt;100 To 200, Deduct</i>   |  |  | -25.56 |  |
|                  | <i>For &gt;200, Deduct</i>  |  |  | -38.04 |  |
|                  | <i>For Factory Applied White Reflective Surfacing, Add</i>  |  |  | 104.40 |  |
| 07 52 16 15-0008 | Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing                        |  | <small>(07 52 16 15-0001)</small>  |        |  |
| 07 52 16 15-0009 | SF 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering                     |  |  | 3.98   |  |
| 07 52 16 15-0010 | SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering  |  |  | 4.46   |  |
|                  | <i>For Factory Applied White Reflective Surfacing, Add</i>  |  |  | 1.04   |  |
| 07 52 16 15-0011 | SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering  |  |  | 5.93   |  |
|                  | <i>For Factory Applied White Reflective Surfacing, Add</i>  |  |  | 1.04   |  |

**07 53 Elastomeric Membrane Roofing** (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

**07 53 16 Chlorosulfonate-Polyethylene Roofing** (07 53)

|                  |  |  |  |        |       |
|------------------|--|--|--|--------|-------|
| 07 53 16 00-0001 | Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes                                     |  | <small>(07 53 16)</small>                                    |        |       |
|                  |  |  | Note: Includes hot air welding or adhesive bonding of seams. |        |       |
| 07 53 16 00-0002 | SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Fully Adhered |  |  | 604.20 | 88.93 |
|                  | <i>For Up To 10, Add</i>   |  |  | 156.41 |       |
|                  | <i>For &gt;10 To 20, Add</i>   |  |  | 87.10  |       |
|                  | <i>For &gt;20 To 40, Add</i>   |  |  | 48.00  |       |
|                  | <i>For &gt;75 To 100, Deduct</i>   |  |  | -24.00 |       |
|                  | <i>For &gt;100 To 200, Deduct</i>  |  |  | -52.44 |       |
|                  | <i>For &gt;200, Deduct</i>   |  |  | -76.44 |       |
|                  | <i>For 15 Year Warranty, Add</i>   |  |  | 3.00   |       |
| 07 53 16 00-0003 | SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Ballasted     |  |  | 464.56 | 44.47 |
|                  | <i>For Up To 10, Add</i>   |  |  | 110.70 |       |
|                  | <i>For &gt;10 To 20, Add</i>   |  |  | 59.80  |       |
|                  | <i>For &gt;20 To 40, Add</i>   |  |  | 32.12  |       |
|                  | <i>For &gt;75 To 100, Deduct</i>   |  |  | -16.06 |       |
|                  | <i>For &gt;100 To 200, Deduct</i>  |  |  | -34.34 |       |
|                  | <i>For &gt;200, Deduct</i>   |  |  | -50.40 |       |
|                  | <i>For 15 Year Warranty, Add</i>   |  |  | 3.00   |       |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 53 16 00-0004 | SQ  |     | 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Mechanically Fastened..... | 493.35                 | 66.70                |
|                  |     |     | Note: Includes fasteners.  |                        |                      |
|                  |     |     | For Up To 10, Add  | 125.35                 |                      |
|                  |     |     | For >10 To 20, Add   | 69.35                  |                      |
|                  |     |     | For >20 To 40, Add   | 38.01                  |                      |
|                  |     |     | For >75 To 100, Deduct   | -19.00                 |                      |
|                  |     |     | For >100 To 200, Deduct  | -41.34                 |                      |
|                  |     |     | For >200, Deduct   | -60.35                 |                      |
|                  |     |     | For 15 Year Warranty, Add  | 3.00                   |                      |
|                  |     |     | For Mechanically Fastened To Concrete Decks, Add   | 33.35                  |                      |
|                  |     |     | For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add                                    | 34.62                  |                      |
| <b>07 53 23</b>  |     |     | <b>Ethylene-Propylene-Diene-Monomer Roofing</b> (07 53)  |                        |                      |
| 07 53 23 00-0001 |     |     | Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes (07 53 23)   |                        |                      |
|                  |     |     | Note: Includes splicing of seams using adhesive or seam tape. Black ethylene propylene diene monomer (EPDM). |                        |                      |
| 07 53 23 00-0002 | SQ  |     | 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted .....                 | 313.66                 | 44.47                |
|                  |     |     | Note: Includes ballast.  |                        |                      |
|                  |     |     | For Up To 10, Add  | 80.52                  |                      |
|                  |     |     | For >10 To 20, Add   | 44.71                  |                      |
|                  |     |     | For >20 To 40, Add   | 24.58                  |                      |
|                  |     |     | For >75 To 100, Deduct   | -12.29                 |                      |
|                  |     |     | For >100 To 200, Deduct  | -26.80                 |                      |
|                  |     |     | For >200, Deduct   | -39.09                 |                      |
|                  |     |     | For 15 Year Warranty, Add  | 3.00                   |                      |
|                  |     |     | For Low Slope Fire Rated, Add  | 8.39                   |                      |
|                  |     |     | For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add  | 31.49                  |                      |
| 07 53 23 00-0003 | SQ  |     | 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted .....                 | 408.86                 | 47.24                |
|                  |     |     | Note: Includes ballast.  |                        |                      |
|                  |     |     | For Up To 10, Add  | 100.67                 |                      |
|                  |     |     | For >10 To 20, Add   | 55.06                  |                      |
|                  |     |     | For >20 To 40, Add   | 29.89                  |                      |
|                  |     |     | For >75 To 100, Deduct   | -14.95                 |                      |
|                  |     |     | For >100 To 200, Deduct  | -32.25                 |                      |
|                  |     |     | For >200, Deduct   | -47.20                 |                      |
|                  |     |     | For 15 Year Warranty, Add  | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add  | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add  | 9.00                   |                      |
|                  |     |     | For Low Slope Fire Rated, Add  | 8.39                   |                      |
|                  |     |     | For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add  | 31.49                  |                      |
| 07 53 23 00-0004 | SQ  |     | 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted .....                 | 555.48                 | 50.02                |
|                  |     |     | Note: Includes ballast.  |                        |                      |
|                  |     |     | For Up To 10, Add  | 131.11                 |                      |
|                  |     |     | For >10 To 20, Add   | 70.56                  |                      |
|                  |     |     | For >20 To 40, Add   | 37.78                  |                      |
|                  |     |     | For >75 To 100, Deduct   | -18.89                 |                      |
|                  |     |     | For >100 To 200, Deduct  | -40.28                 |                      |
|                  |     |     | For >200, Deduct   | -59.17                 |                      |
|                  |     |     | For 15 Year Warranty, Add  | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add  | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add  | 9.00                   |                      |
|                  |     |     | For Low Slope Fire Rated, Add  | 8.39                   |                      |
| 07 53 23 00-0005 | SQ  |     | 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%) .....   | 376.36                 | 66.70                |
|                  |     |     | Note: Includes adhesive and fasteners.   |                        |                      |
|                  |     |     | For Up To 10, Add  | 101.95                 |                      |
|                  |     |     | For >10 To 20, Add   | 57.65                  |                      |
|                  |     |     | For >20 To 40, Add   | 32.16                  |                      |
|                  |     |     | For >75 To 100, Deduct   | -16.08                 |                      |
|                  |     |     | For >100 To 200, Deduct  | -35.49                 |                      |
|                  |     |     | For >200, Deduct   | -51.57                 |                      |
|                  |     |     | For 15 Year Warranty, Add  | 3.00                   |                      |
|                  |     |     | For Low Slope Fire Rated, Add  | 8.39                   |                      |
|                  |     |     | For Low VOC Adhesive, Add  | 23.35                  |                      |
|                  |     |     | For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add  | 31.49                  |                      |
|                  |     |     | For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add                      | 80.04                  |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add   | 108.12                 |                      |
| 07 53 23 00-0006 | SQ  |     | 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%) .....   | 471.55                 | 69.48                |
|                  |     |     | Note: Includes adhesive and fasteners.   |                        |                      |
|                  |     |     | For Up To 10, Add  | 122.10                 |                      |
|                  |     |     | For >10 To 20, Add   | 68.00                  |                      |
|                  |     |     | For >20 To 40, Add   | 37.47                  |                      |
|                  |     |     | For >75 To 100, Deduct   | -18.74                 |                      |
|                  |     |     | For >100 To 200, Deduct  | -40.95                 |                      |
|                  |     |     | For >200, Deduct   | -59.68                 |                      |
|                  |     |     | For 15 Year Warranty, Add  | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add  | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add  | 9.00                   |                      |
|                  |     |     | For Low Slope Fire Rated, Add  | 8.39                   |                      |
|                  |     |     | For Low VOC Adhesive, Add  | 23.35                  |                      |
|                  |     |     | For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add  | 31.49                  |                      |
|                  |     |     | For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add                      | 80.04                  |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add   | 120.42                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 53 23 00-0007 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)..... | 618.18                    | 72.25                   |
| Note: Includes adhesive and fasteners.  |                           |                         |
| <i>For Up To 10, Add</i>  | 152.54                    |                         |
| <i>For &gt;10 To 20, Add</i>  | 83.50                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 45.36                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -22.68                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -48.97                    |                         |
| <i>For &gt;200, Deduct</i>  | -71.65                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For 20 Year Warranty, Add</i>  | 7.00                      |                         |
| <i>For 25 Year Warranty, Add</i>  | 9.00                      |                         |
| <i>For Low Slope Fire Rated, Add</i>  | 8.39                      |                         |
| <i>For Low VOC Adhesive, Add</i>  | 23.35                     |                         |
| <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>                                | 80.04                     |                         |
| <i>For Integral Polyester Fleece-Backing, Add</i>   | 133.84                    |                         |
| 07 53 23 00-0008 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....           | 496.26                    | 88.93                   |
| Note: Includes adhesive and fasteners.  |                           |                         |
| <i>For Up To 10, Add</i>  | 134.82                    |                         |
| <i>For &gt;10 To 20, Add</i>  | 76.31                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 42.60                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -21.30                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -47.05                    |                         |
| <i>For &gt;200, Deduct</i>  | -68.35                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For Low Slope Fire Rated, Add</i>  | 8.39                      |                         |
| <i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>  | 31.49                     |                         |
| <i>For Low VOC Adhesive, Add</i>  | 58.38                     |                         |
| <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>                                | 80.04                     |                         |
| <i>For Integral Polyester Fleece-Backing, Add</i>   | 108.12                    |                         |
| 07 53 23 00-0009 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....           | 591.46                    | 91.71                   |
| Note: Includes adhesive and fasteners.  |                           |                         |
| <i>For Up To 10, Add</i>  | 154.98                    |                         |
| <i>For &gt;10 To 20, Add</i>  | 86.66                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 47.92                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -23.96                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -52.50                    |                         |
| <i>For &gt;200, Deduct</i>  | -76.46                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For 20 Year Warranty, Add</i>  | 7.00                      |                         |
| <i>For 25 Year Warranty, Add</i>  | 9.00                      |                         |
| <i>For Low Slope Fire Rated, Add</i>  | 8.39                      |                         |
| <i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>  | 31.49                     |                         |
| <i>For Low VOC Adhesive, Add</i>  | 58.38                     |                         |
| <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>                                | 80.04                     |                         |
| <i>For Integral Polyester Fleece-Backing, Add</i>   | 120.42                    |                         |
| 07 53 23 00-0010 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....           | 738.07                    | 94.49                   |
| Note: Includes adhesive and fasteners.  |                           |                         |
| <i>For Up To 10, Add</i>  | 185.41                    |                         |
| <i>For &gt;10 To 20, Add</i>  | 102.15                    |                         |
| <i>For &gt;20 To 40, Add</i>  | 55.80                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -27.90                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -60.53                    |                         |
| <i>For &gt;200, Deduct</i>  | -88.43                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For 20 Year Warranty, Add</i>  | 7.00                      |                         |
| <i>For 25 Year Warranty, Add</i>  | 9.00                      |                         |
| <i>For Low Slope Fire Rated, Add</i>  | 8.39                      |                         |
| <i>For Low VOC Adhesive, Add</i>  | 58.38                     |                         |
| <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>                                | 80.04                     |                         |
| <i>For Integral Polyester Fleece-Backing, Add</i>   | 133.84                    |                         |
| 07 53 23 00-0011 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....  | 342.21                    | 66.70                   |
| Note: Includes fasteners.   |                           |                         |
| <i>For Up To 10, Add</i>  | 95.12                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 54.23                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 30.45                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -15.23                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -33.79                    |                         |
| <i>For &gt;200, Deduct</i>  | -49.01                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For Low Slope Fire Rated, Add</i>  | 8.39                      |                         |
| <i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>  | 31.49                     |                         |
| <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>                                | 80.04                     |                         |
| <i>For Mechanically Fastened To Concrete Decks, Add</i>   | 33.35                     |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>  | 34.62                     |                         |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 53 23 00-0012 | SQ  |     | 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....437.40<br>Note: Includes fasteners.  |                        | 69.48                |
|                  |     |     | <i>For Up To 10, Add</i>   | 115.27                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 64.58                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 35.77                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -17.88                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -39.24                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -57.12                 |                      |
|                  |     |     | <i>For 15 Year Warranty, Add</i>   | 3.00                   |                      |
|                  |     |     | <i>For 20 Year Warranty, Add</i>   | 7.00                   |                      |
|                  |     |     | <i>For 25 Year Warranty, Add</i>   | 9.00                   |                      |
|                  |     |     | <i>For Low Slope Fire Rated, Add</i>   | 8.39                   |                      |
|                  |     |     | <i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>   | 31.49                  |                      |
|                  |     |     | <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>   | 80.04                  |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete Decks, Add</i>  | 34.74                  |                      |
|                  |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>   | 36.01                  |                      |
| 07 53 23 00-0013 | SQ  |     | 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....584.03<br>Note: Includes fasteners.  |                        | 72.25                |
|                  |     |     | <i>For Up To 10, Add</i>   | 145.71                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 80.08                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 43.65                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -21.83                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -47.27                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -69.09                 |                      |
|                  |     |     | <i>For 15 Year Warranty, Add</i>   | 3.00                   |                      |
|                  |     |     | <i>For 20 Year Warranty, Add</i>   | 7.00                   |                      |
|                  |     |     | <i>For 25 Year Warranty, Add</i>   | 9.00                   |                      |
|                  |     |     | <i>For Low Slope Fire Rated, Add</i>   | 8.39                   |                      |
|                  |     |     | <i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>   | 80.04                  |                      |
|                  |     |     | <i>For Mechanically Fastened To Concrete Decks, Add</i>  | 36.13                  |                      |
|                  |     |     | <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>   | 37.40                  |                      |
| 07 53 23 00-0014 |     |     | <b>Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane Accessories</b> <small>(07 53 23)</small>  |                        |                      |
| 07 53 23 00-0015 | SQ  |     | Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat .....71.30   |                        |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 18.71                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 10.46                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 5.79                   |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -2.89                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -6.34                  |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -9.24                  |                      |
| 07 53 23 00-0016 | SQ  |     | Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat .....73.75<br>Note: 55% solids by volume.   |                        |                      |
|                  |     |     | <i>For Up To 10, Add</i>   | 19.20                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 10.71                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 5.91                   |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -2.96                  |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -6.47                  |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -9.42                  |                      |
| 07 53 23 00-0017 | EA  |     | Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....44.95<br>Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.                    |                        | 10.56                |
| 07 53 23 00-0018 | EA  |     | >4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot .....64.32<br>Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.                  |                        | 10.56                |
| 07 53 23 00-0019 | EA  |     | >8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot .....120.20<br>Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.                |                        | 10.56                |
| 07 53 23 00-0020 | EA  |     | 6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket.....159.40<br>Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer. |                        | 11.67                |
| 07 53 23 00-0021 | LF  |     | 30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad.....34.93<br>Note: Includes factory installed peel and stick adhesive tape.   |                        | 6.45                 |
| 07 53 23 00-0022 | SF  |     | Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing .....6.64   |                        | 1.66                 |
| 07 53 23 00-0023 | SF  |     | Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing .....8.30   |                        | 2.50                 |
| 07 53 29         |     |     | <b>Polyisobutylene Roofing</b> <small>(07 53)</small>  |                        |                      |
| 07 53 29 00-0001 |     |     | <b>Polyisobutylene (PIB) Roofing Membranes</b> <small>(07 53 29)</small><br>Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.  |                        |                      |
| 07 53 29 00-0002 | SQ  |     | 100 Mil, Single Ply PIB Roofing Membrane, Ballasted .....518.09<br>Note: Includes ballast.   |                        | 50.02                |
|                  |     |     | <i>For Up To 10, Add</i>   | 123.63                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 66.82                  |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 35.91                  |                      |
|                  |     |     | <i>For &gt;75 To 100, Deduct</i>   | -17.95                 |                      |
|                  |     |     | <i>For &gt;100 To 200, Deduct</i>  | -38.41                 |                      |
|                  |     |     | <i>For &gt;200, Deduct</i>   | -56.37                 |                      |
|                  |     |     | <i>For 15 Year Warranty, Add</i>   | 3.00                   |                      |
|                  |     |     | <i>For 20 Year Warranty, Add</i>   | 7.00                   |                      |
|                  |     |     | <i>For 25 Year Warranty, Add</i>   | 9.00                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 53 29 00-0003 SQ 100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%) ..... | 578.70                    | 72.25                   |
| Note: Includes adhesive.  |                           |                         |
| For Up To 10, Add   | 144.64                    |                         |
| For >10 To 20, Add  | 79.55                     |                         |
| For >20 To 40, Add  | 43.39                     |                         |
| For >75 To 100, Deduct  | -21.69                    |                         |
| For >100 To 200, Deduct   | -47.00                    |                         |
| For >200, Deduct  | -68.69                    |                         |
| For 15 Year Warranty, Add   | 3.00                      |                         |
| For 20 Year Warranty, Add   | 7.00                      |                         |
| For 25 Year Warranty, Add   | 9.00                      |                         |
| 07 53 29 00-0004 SQ 100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered .....           | 695.46                    | 94.49                   |
| Note: Includes adhesive.  |                           |                         |
| For Up To 10, Add   | 176.89                    |                         |
| For >10 To 20, Add  | 97.89                     |                         |
| For >20 To 40, Add  | 53.67                     |                         |
| For >75 To 100, Deduct  | -26.84                    |                         |
| For >100 To 200, Deduct   | -58.40                    |                         |
| For >200, Deduct  | -85.23                    |                         |
| For 15 Year Warranty, Add   | 3.00                      |                         |
| For 20 Year Warranty, Add   | 7.00                      |                         |
| For 25 Year Warranty, Add   | 9.00                      |                         |

**07 54 Thermoplastic Membrane Roofing** (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

**07 54 19 Polyvinyl-Chloride Roofing** (07 54)

**07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes** (07 54 19)

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

|   |        |       |
|---|--------|-------|
| 07 54 19 00-0002 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted ..... | 206.92 | 44.47 |
| Note: Includes ballast.   |        |       |
| For Up To 10, Add   | 59.17  |       |
| For >10 To 20, Add  | 34.03  |       |
| For >20 To 40, Add  | 19.24  |       |
| For >75 To 100, Deduct  | -9.62  |       |
| For >100 To 200, Deduct   | -21.46 |       |
| For >200, Deduct  | -31.08 |       |
| For 15 Year Warranty, Add   | 3.00   |       |
| For Colors, Add   | 26.00  |       |
| For Integral Polyester Fleece-Backing, Add  | 30.28  |       |
| 07 54 19 00-0003 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted ..... | 228.31 | 47.24 |
| Note: Includes ballast.   |        |       |
| For Up To 10, Add   | 64.56  |       |
| For >10 To 20, Add  | 37.00  |       |
| For >20 To 40, Add  | 20.86  |       |
| For >75 To 100, Deduct  | -10.43 |       |
| For >100 To 200, Deduct   | -23.23 |       |
| For >200, Deduct  | -33.66 |       |
| For 15 Year Warranty, Add   | 3.00   |       |
| For 20 Year Warranty, Add   | 7.00   |       |
| For 25 Year Warranty, Add   | 9.00   |       |
| For Colors, Add   | 26.00  |       |
| For Integral Polyester Fleece-Backing, Add  | 30.28  |       |
| 07 54 19 00-0004 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted ..... | 251.33 | 48.63 |
| Note: Includes ballast.   |        |       |
| For Up To 10, Add   | 69.72  |       |
| For >10 To 20, Add  | 39.72  |       |
| For >20 To 40, Add  | 22.29  |       |
| For >75 To 100, Deduct  | -11.15 |       |
| For >100 To 200, Deduct   | -24.73 |       |
| For >200, Deduct  | -35.87 |       |
| For 15 Year Warranty, Add   | 3.00   |       |
| For 20 Year Warranty, Add   | 7.00   |       |
| For 25 Year Warranty, Add   | 9.00   |       |
| For Colors, Add   | 26.00  |       |
| For Integral Polyester Fleece-Backing, Add  | 30.28  |       |
| 07 54 19 00-0005 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted ..... | 262.91 | 50.02 |
| Note: Includes ballast.   |        |       |
| For Up To 10, Add   | 72.59  |       |
| For >10 To 20, Add  | 41.30  |       |
| For >20 To 40, Add  | 23.15  |       |
| For >75 To 100, Deduct  | -11.58 |       |
| For >100 To 200, Deduct   | -25.65 |       |
| For >200, Deduct  | -37.23 |       |
| For 15 Year Warranty, Add   | 3.00   |       |
| For 20 Year Warranty, Add   | 7.00   |       |
| For 25 Year Warranty, Add   | 9.00   |       |
| For Colors, Add   | 26.00  |       |
| For Integral Polyester Fleece-Backing, Add  | 30.28  |       |



**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 07 54 | 19 00-0006 | SQ  | 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered .....         | 412.44                 | 88.93                |
|       |            |     | Note: Includes adhesive.  |                        |                      |
|       |            |     | For Up To 10, Add   | 118.06                 |                      |
|       |            |     | For >10 To 20, Add  | 67.92                  |                      |
|       |            |     | For >20 To 40, Add  | 38.41                  |                      |
|       |            |     | For >75 To 100, Deduct  | -19.20                 |                      |
|       |            |     | For >100 To 200, Deduct   | -42.85                 |                      |
|       |            |     | For >200, Deduct  | -62.06                 |                      |
|       |            |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|       |            |     | For Colors, Add   | 26.00                  |                      |
|       |            |     | For Low VOC Adhesive, Add   | 80.85                  |                      |
|       |            |     | For Integral Polyester Fleece-Backing, Add  | 30.28                  |                      |
| 07 54 | 19 00-0007 | SQ  | 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered .....         | 433.85                 | 91.71                |
|       |            |     | Note: Includes adhesive.  |                        |                      |
|       |            |     | For Up To 10, Add   | 123.46                 |                      |
|       |            |     | For >10 To 20, Add  | 70.90                  |                      |
|       |            |     | For >20 To 40, Add  | 40.04                  |                      |
|       |            |     | For >75 To 100, Deduct  | -20.02                 |                      |
|       |            |     | For >100 To 200, Deduct   | -44.62                 |                      |
|       |            |     | For >200, Deduct  | -64.64                 |                      |
|       |            |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|       |            |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|       |            |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|       |            |     | For Colors, Add   | 26.00                  |                      |
|       |            |     | For Low VOC Adhesive, Add   | 80.85                  |                      |
|       |            |     | For Integral Polyester Fleece-Backing, Add  | 30.28                  |                      |
| 07 54 | 19 00-0008 | SQ  | 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered .....         | 456.86                 | 93.10                |
|       |            |     | Note: Includes adhesive.  |                        |                      |
|       |            |     | For Up To 10, Add   | 128.61                 |                      |
|       |            |     | For >10 To 20, Add  | 73.62                  |                      |
|       |            |     | For >20 To 40, Add  | 41.46                  |                      |
|       |            |     | For >75 To 100, Deduct  | -20.73                 |                      |
|       |            |     | For >100 To 200, Deduct   | -46.12                 |                      |
|       |            |     | For >200, Deduct  | -66.85                 |                      |
|       |            |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|       |            |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|       |            |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|       |            |     | For Colors, Add   | 26.00                  |                      |
|       |            |     | For Low VOC Adhesive, Add   | 80.85                  |                      |
|       |            |     | For Integral Polyester Fleece-Backing, Add  | 30.28                  |                      |
| 07 54 | 19 00-0009 | SQ  | 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered .....         | 468.43                 | 94.49                |
|       |            |     | Note: Includes adhesive.  |                        |                      |
|       |            |     | For Up To 10, Add   | 131.48                 |                      |
|       |            |     | For >10 To 20, Add  | 75.19                  |                      |
|       |            |     | For >20 To 40, Add  | 42.32                  |                      |
|       |            |     | For >75 To 100, Deduct  | -21.16                 |                      |
|       |            |     | For >100 To 200, Deduct   | -47.04                 |                      |
|       |            |     | For >200, Deduct  | -68.20                 |                      |
|       |            |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|       |            |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|       |            |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|       |            |     | For Colors, Add   | 26.00                  |                      |
|       |            |     | For Low VOC Adhesive, Add   | 80.85                  |                      |
|       |            |     | For Integral Polyester Fleece-Backing, Add  | 30.28                  |                      |
| 07 54 | 19 00-0010 | SQ  | 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened ..... | 227.52                 | 66.70                |
|       |            |     | Note: Includes fasteners.   |                        |                      |
|       |            |     | For Up To 10, Add   | 72.18                  |                      |
|       |            |     | For >10 To 20, Add  | 42.76                  |                      |
|       |            |     | For >20 To 40, Add  | 24.72                  |                      |
|       |            |     | For >75 To 100, Deduct  | -12.36                 |                      |
|       |            |     | For >100 To 200, Deduct   | -28.05                 |                      |
|       |            |     | For >200, Deduct  | -40.41                 |                      |
|       |            |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|       |            |     | For Colors, Add   | 26.00                  |                      |
|       |            |     | For Integral Polyester Fleece-Backing, Add  | 30.28                  |                      |
|       |            |     | For Mechanically Fastened To Concrete Decks, Add  | 33.35                  |                      |
|       |            |     | For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add                             | 34.62                  |                      |
| 07 54 | 19 00-0011 | SQ  | 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened ..... | 248.90                 | 69.48                |
|       |            |     | Note: Includes fasteners.   |                        |                      |
|       |            |     | For Up To 10, Add   | 77.57                  |                      |
|       |            |     | For >10 To 20, Add  | 45.73                  |                      |
|       |            |     | For >20 To 40, Add  | 26.34                  |                      |
|       |            |     | For >75 To 100, Deduct  | -13.17                 |                      |
|       |            |     | For >100 To 200, Deduct   | -29.81                 |                      |
|       |            |     | For >200, Deduct  | -42.98                 |                      |
|       |            |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|       |            |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|       |            |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|       |            |     | For Colors, Add   | 26.00                  |                      |
|       |            |     | For Integral Polyester Fleece-Backing, Add  | 30.28                  |                      |
|       |            |     | For Mechanically Fastened To Concrete Decks, Add  | 34.74                  |                      |
|       |            |     | For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add                             | 36.01                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 54 19 00-0012 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened .....<br>Note: Includes fasteners.  | 271.93                    | 70.87                   |
| <i>For Up To 10, Add</i>  | 82.73                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 48.45                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 27.77                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -13.89                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -31.31                    |                         |
| <i>For &gt;200, Deduct</i>  | -45.20                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For 20 Year Warranty, Add</i>  | 7.00                      |                         |
| <i>For 25 Year Warranty, Add</i>  | 9.00                      |                         |
| <i>For Colors, Add</i>  | 26.00                     |                         |
| <i>For Integral Polyester Fleece-Backing, Add</i>   | 30.28                     |                         |
| <i>For Mechanically Fastened To Concrete Decks, Add</i>   | 35.44                     |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>  | 36.71                     |                         |
| 07 54 19 00-0013 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened .....<br>Note: Includes fasteners.  | 283.51                    | 72.25                   |
| <i>For Up To 10, Add</i>  | 85.61                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 50.03                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 28.63                     |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -14.31                    |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -32.24                    |                         |
| <i>For &gt;200, Deduct</i>  | -46.55                    |                         |
| <i>For 15 Year Warranty, Add</i>  | 3.00                      |                         |
| <i>For 20 Year Warranty, Add</i>  | 7.00                      |                         |
| <i>For 25 Year Warranty, Add</i>  | 9.00                      |                         |
| <i>For Colors, Add</i>  | 26.00                     |                         |
| <i>For Integral Polyester Fleece-Backing, Add</i>   | 30.28                     |                         |
| <i>For Mechanically Fastened To Concrete Decks, Add</i>   | 36.13                     |                         |
| <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>  | 37.40                     |                         |
| <b>07 54 19 00-0014 Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories (07 54 19)</b>  |                           |                         |
| 07 54 19 00-0015 SQ Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat .....<br><i>For Up To 10, Add</i><br><i>For &gt;10 To 20, Add</i><br><i>For &gt;20 To 40, Add</i><br><i>For &gt;75 To 100, Deduct</i><br><i>For &gt;100 To 200, Deduct</i><br><i>For &gt;200, Deduct</i> | 71.30                     |                         |
| <i>For Up To 10, Add</i>  | 18.71                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 10.46                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 5.79                      |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -2.89                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -6.34                     |                         |
| <i>For &gt;200, Deduct</i>  | -9.24                     |                         |
| 07 54 19 00-0016 SQ Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat.....<br>Note: 55% solids by volume.   | 73.75                     |                         |
| <i>For Up To 10, Add</i>  | 19.20                     |                         |
| <i>For &gt;10 To 20, Add</i>  | 10.71                     |                         |
| <i>For &gt;20 To 40, Add</i>  | 5.91                      |                         |
| <i>For &gt;75 To 100, Deduct</i>  | -2.96                     |                         |
| <i>For &gt;100 To 200, Deduct</i>   | -6.47                     |                         |
| <i>For &gt;200, Deduct</i>  | -9.42                     |                         |
| 07 54 19 00-0017 EA Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....<br>Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.   | 74.44                     | 9.45                    |
| 07 54 19 00-0018 EA >3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....<br>Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.  | 104.50                    | 10.56                   |
| 07 54 19 00-0019 EA >7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....<br>Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.   | 133.65                    | 11.67                   |
| 07 54 19 00-0020 EA 6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket .....<br>Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.  | 170.02                    | 11.67                   |
| 07 54 19 00-0021 LF 36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad .....   | 29.94                     | 6.45                    |
| 07 54 19 00-0022 SF Polyvinyl Chloride (PVC) Membrane Base Flashing .....   | 7.90                      | 1.66                    |
| 07 54 19 00-0023 SF Polyvinyl Chloride (PVC) Membrane Curb Flashing .....   | 9.56                      | 2.50                    |
| 07 54 19 00-0024 SF Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing.....<br>Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.  | 10.68                     | 1.66                    |

**07 54 23 Thermoplastic-Polyolefin Roofing (07 54)**

**07 54 23 00-0001 Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)**

|  |        |       |
|--|--------|-------|
| 07 54 23 00-0002 SQ 45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered .....<br>Note: Includes adhesive. | 439.71 | 88.93 |
| <i>For Up To 10, Add</i>   | 123.51 |       |
| <i>For &gt;10 To 20, Add</i>   | 70.65  |       |
| <i>For &gt;20 To 40, Add</i>   | 39.77  |       |
| <i>For &gt;75 To 100, Deduct</i>   | -19.89 |       |
| <i>For &gt;100 To 200, Deduct</i>  | -44.22 |       |
| <i>For &gt;200, Deduct</i>   | -64.10 |       |
| <i>For 15 Year Warranty, Add</i>   | 3.00   |       |
| <i>For Low VOC Adhesive, Add</i>   | 58.38  |       |
| <i>For Integral Polyester Fleece-Backing, Add</i>  | 33.25  |       |

## 07 Thermal And Moisture Protection

## 07 50 Membrane Roofing

## 07 54 Thermoplastic Membrane Roofing



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 07 54 23 00-0003 | SQ  |     | 50 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....               | 460.13                 | 90.32                |
|                  |     |     | Note: Includes adhesive.  |                        |                      |
|                  |     |     | For Up To 10, Add   | 128.15                 |                      |
|                  |     |     | For >10 To 20, Add  | 73.11                  |                      |
|                  |     |     | For >20 To 40, Add  | 41.07                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -20.54                 |                      |
|                  |     |     | For >100 To 200, Deduct   | -45.59                 |                      |
|                  |     |     | For >200, Deduct  | -66.12                 |                      |
|                  |     |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|                  |     |     | For Low VOC Adhesive, Add   | 58.38                  |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add                                | 33.25                  |                      |
| 07 54 23 00-0004 | SQ  |     | 60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....               | 470.77                 | 91.71                |
|                  |     |     | Note: Includes adhesive.  |                        |                      |
|                  |     |     | For Up To 10, Add   | 130.84                 |                      |
|                  |     |     | For >10 To 20, Add  | 74.59                  |                      |
|                  |     |     | For >20 To 40, Add  | 41.88                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -20.94                 |                      |
|                  |     |     | For >100 To 200, Deduct   | -46.47                 |                      |
|                  |     |     | For >200, Deduct  | -67.41                 |                      |
|                  |     |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|                  |     |     | For Low VOC Adhesive, Add   | 58.38                  |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add                                | 33.25                  |                      |
| 07 54 23 00-0005 | SQ  |     | 80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....               | 607.30                 | 94.49                |
|                  |     |     | Note: Includes adhesive.  |                        |                      |
|                  |     |     | For Up To 10, Add   | 159.26                 |                      |
|                  |     |     | For >10 To 20, Add  | 89.08                  |                      |
|                  |     |     | For >20 To 40, Add  | 49.26                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -24.63                 |                      |
|                  |     |     | For >100 To 200, Deduct   | -53.99                 |                      |
|                  |     |     | For >200, Deduct  | -78.62                 |                      |
|                  |     |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|                  |     |     | For Low VOC Adhesive, Add   | 58.38                  |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add                                | 33.25                  |                      |
| 07 54 23 00-0006 | SQ  |     | 45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened .....      | 293.02                 | 66.70                |
|                  |     |     | Note: Includes fasteners.   |                        |                      |
|                  |     |     | For Up To 10, Add   | 85.28                  |                      |
|                  |     |     | For >10 To 20, Add  | 49.31                  |                      |
|                  |     |     | For >20 To 40, Add  | 27.99                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -14.00                 |                      |
|                  |     |     | For >100 To 200, Deduct   | -31.33                 |                      |
|                  |     |     | For >200, Deduct  | -45.32                 |                      |
|                  |     |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add                                | 33.25                  |                      |
|                  |     |     | For Mechanically Fastened To Concrete Decks, Add                          | 33.35                  |                      |
|                  |     |     | For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add | 34.62                  |                      |
| 07 54 23 00-0007 | SQ  |     | 50 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened .....      | 313.42                 | 68.09                |
|                  |     |     | Note: Includes fasteners.   |                        |                      |
|                  |     |     | For Up To 10, Add   | 89.92                  |                      |
|                  |     |     | For >10 To 20, Add  | 51.77                  |                      |
|                  |     |     | For >20 To 40, Add  | 29.29                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -14.64                 |                      |
|                  |     |     | For >100 To 200, Deduct   | -32.69                 |                      |
|                  |     |     | For >200, Deduct  | -47.34                 |                      |
|                  |     |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add                                | 33.25                  |                      |
|                  |     |     | For Mechanically Fastened To Concrete Decks, Add                          | 34.04                  |                      |
|                  |     |     | For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add | 35.31                  |                      |
| 07 54 23 00-0008 | SQ  |     | 60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened .....      | 324.05                 | 69.48                |
|                  |     |     | Note: Includes fasteners.   |                        |                      |
|                  |     |     | For Up To 10, Add   | 92.60                  |                      |
|                  |     |     | For >10 To 20, Add  | 53.25                  |                      |
|                  |     |     | For >20 To 40, Add  | 30.10                  |                      |
|                  |     |     | For >75 To 100, Deduct  | -15.05                 |                      |
|                  |     |     | For >100 To 200, Deduct   | -33.57                 |                      |
|                  |     |     | For >200, Deduct  | -48.62                 |                      |
|                  |     |     | For 15 Year Warranty, Add   | 3.00                   |                      |
|                  |     |     | For 20 Year Warranty, Add   | 7.00                   |                      |
|                  |     |     | For 25 Year Warranty, Add   | 9.00                   |                      |
|                  |     |     | For Integral Polyester Fleece-Backing, Add                                | 33.25                  |                      |
|                  |     |     | For Mechanically Fastened To Concrete Decks, Add                          | 34.74                  |                      |
|                  |     |     | For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add | 36.01                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 54 23 00-0009 SQ 80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened.....  | 460.60                    | 72.25                   |
| Note: Includes fasteners.  |                           |                         |
| For Up To 10, Add  | 121.02                    |                         |
| For >10 To 20, Add   | 67.74                     |                         |
| For >20 To 40, Add   | 37.48                     |                         |
| For >75 To 100, Deduct   | -18.74                    |                         |
| For >100 To 200, Deduct  | -41.10                    |                         |
| For >200, Deduct   | -59.84                    |                         |
| For 15 Year Warranty, Add  | 3.00                      |                         |
| For 20 Year Warranty, Add  | 7.00                      |                         |
| For 25 Year Warranty, Add  | 9.00                      |                         |
| For Integral Polyester Fleece-Backing, Add   | 33.25                     |                         |
| For Mechanically Fastened To Concrete Decks, Add   | 36.13                     |                         |
| For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add  | 37.40                     |                         |
| <b>07 54 23 00-0010 Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)</b>                                   |                           |                         |
| 07 54 23 00-0011 SQ Acrylic, Thermoplastic Polyolefin (TPO) Roofing Primer, Price Per Coat .....                                 | 84.79                     |                         |
| For Up To 10, Add  | 21.40                     |                         |
| For >10 To 20, Add   | 11.81                     |                         |
| For >20 To 40, Add   | 6.46                      |                         |
| For >75 To 100, Deduct   | -3.23                     |                         |
| For >100 To 200, Deduct  | -7.02                     |                         |
| For >200, Deduct   | -10.25                    |                         |
| 07 54 23 00-0012 SQ Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat.....                            | 73.75                     |                         |
| Note: 55% solids by volume.  |                           |                         |
| For Up To 10, Add  | 19.20                     |                         |
| For >10 To 20, Add   | 10.71                     |                         |
| For >20 To 40, Add   | 5.91                      |                         |
| For >75 To 100, Deduct   | -2.96                     |                         |
| For >100 To 200, Deduct  | -6.47                     |                         |
| For >200, Deduct   | -9.42                     |                         |
| For Tan Or Gray Color, Add   | 2.58                      |                         |
| 07 54 23 00-0013 EA Up To 3" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....                           | 64.13                     | 9.45                    |
| Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.                          |                           |                         |
| 07 54 23 00-0014 EA >3" To 8" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....                          | 69.23                     | 10.56                   |
| Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.                          |                           |                         |
| 07 54 23 00-0015 EA 6" Diameter, Prefabricated TPO Penetration Pocket.....   | 127.09                    | 11.67                   |
| Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer. |                           |                         |
| 07 54 23 00-0016 LF 30" Wide, TPO Walkway Protection Pad .....   | 29.57                     | 6.45                    |
| 07 54 23 00-0017 SF Thermoplastic Polyolefin Membrane Base Flashing .....  | 8.25                      | 1.66                    |
| 07 54 23 00-0018 SF Thermoplastic Polyolefin Curb Flashing .....   | 7.12                      | 1.66                    |
| For Tan Or Gray Color, Add   | 0.11                      |                         |
| 07 54 23 00-0019 SF Thermoplastic Polyolefin Clad Edge Metal Or Base Flashing.....   | 12.10                     | 1.66                    |
| Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.  |                           |                         |
| <b>07 56 Fluid-Applied Roofing (07 50)</b>   |                           |                         |
| <b>07 56 00 00-0001 Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)</b>   |                           |                         |
| 07 56 00 00-0002 SQ 60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing .....   | 1,060.00                  | 148.30                  |
| For Each Additional Coat, Add  | 159.00                    |                         |
| <b>07 56 00 00-0003 Vinyl Spray Liquid Roofing (07 56)</b>   |                           |                         |
| 07 56 00 00-0004 SQ 2 Mil Vinyl Liquid Roofing .....   | 1,384.36                  | 156.28                  |
| 07 56 00 00-0005 SQ 4 Mil Vinyl Liquid Roofing .....   | 1,549.45                  | 174.54                  |
| <b>07 56 00 00-0006 Silicone Elastomeric Liquid Roofing (07 56)</b>  |                           |                         |
| 07 56 00 00-0007 SQ 65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....                             | 446.62                    | 89.55                   |
| 07 56 00 00-0008 SQ 65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat.....                            | 533.42                    | 89.55                   |
| 07 56 00 00-0009 SQ 65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....                           | 598.69                    | 89.55                   |
| <b>07 56 00 00-0010 Rubberized Acrylic Elastomeric Roof Coating, Sprayed On (07 56)</b>  |                           |                         |
| Note: As manufactured by Tru-Co, Inc.  |                           |                         |
| <b>07 56 00 00-0011 Rubberized Acrylic Elastomeric Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)</b>                    |                           |                         |
| 07 56 00 00-0012 SQ Elastomeric Installation Over Urethane Foam .....  | 986.36                    |                         |
| 07 56 00 00-0013 SQ Elastomeric Installation Over Decks .....  | 1,012.19                  |                         |
| 07 56 00 00-0014 SQ Elastomeric Installation Over Exterior, Waterproofing .....  | 401.66                    |                         |
| 07 56 00 00-0015 SQ Elastomeric Installation Over Existing Tar (Asphalt) And Gravel Roof.....                                    | 1,302.76                  |                         |
| 07 56 00 00-0016 SQ Elastomeric Installation Over New Construction, Waterproofing .....  | 715.34                    |                         |
| 07 56 00 00-0017 SQ Elastomeric Installation Over Mobile Home .....  | 474.74                    |                         |
| 07 56 00 00-0018 SQ Elastomeric Installation Over Corrugated Metal Roofs .....   | 553.97                    |                         |
| 07 56 00 00-0019 SQ Elastomeric Installation Over Granulate Mineral Surface, Cap Sheet (Semi-Smooth) Surface .....               | 1,065.58                  |                         |
| 07 56 00 00-0020 SQ 4" Acrylic Gel With Fabric (Apply At Edges) .....  | 3.83                      |                         |
| 07 56 00 00-0021 SQ 6" Acrylic Gel With Fabric (Apply At Edges) .....  | 5.44                      |                         |
| <b>07 56 00 00-0022 Polyurethane Roof Coating, Sprayed On Assemblies (07 56)</b>   |                           |                         |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 56 Fluid-Applied Roofing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| Note: Includes pressure wash, primer, base coat, polyester reinforcement, top coat and finish coat.  |                           |                         |
| 07 56 00 00-0023 SF Up To 50 SF White (High-Albedo) Polyurethane Coating .....   | 11.29                     |                         |
| 07 56 00 00-0024 SF >50 To 100 SF White (High-Albedo) Polyurethane Coating .....   | 10.81                     |                         |
| 07 56 00 00-0025 SF >100 To 500 SF White (High-Albedo) Polyurethane Coating .....  | 10.33                     |                         |
| 07 56 00 00-0026 SEA >500 To 1,000 SF White (High-Albedo) Polyurethane Coating .....   | 9.73                      |                         |
| <b>07 56 00 00-0027 Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)</b>   |                           |                         |
| 07 56 00 00-0028 SQ 90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane .....   | 1,807.72                  | 89.55                   |
| Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 60 mil second coat.  |                           |                         |
| <b>07 56 00 00-0029 Urethane Liquid Roofing Membrane (07 56)</b>   |                           |                         |
| Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems. |                           |                         |
| 07 56 00 00-0030 SQ Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....  | 97.19                     |                         |
| 07 56 00 00-0031 LF Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....   | 5.29                      |                         |
| 07 56 00 00-0032 SQ White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....                                   | 370.87                    |                         |
| 07 56 00 00-0033 SQ White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System .....  | 95.60                     |                         |
| 07 56 00 00-0034 SQ White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply .....  | 915.17                    |                         |
| 07 56 00 00-0035 SQ White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply .....                                  | 1,383.83                  |                         |
| 07 56 00 00-0036 SQ White-Knight® Plus WC High Strength, Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply .....                         | 946.80                    |                         |
| 07 56 00 00-0037 SQ White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ) .....   | 244.14                    |                         |
| <b>07 57 Coated Foamed Roofing (07 50)</b>   |                           |                         |
| <b>07 57 13 Sprayed Polyurethane Foam Roofing (07 57)</b>  |                           |                         |
| Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.  |                           |                         |
| 07 57 13 00-0001 Sprayed Polyurethane Foam Roofing Systems (07 57 13)  |                           |                         |
| 07 57 13 00-0002 Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)   |                           |                         |
| 07 57 13 00-0003 Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)   |                           |                         |
| Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.   |                           |                         |
| 07 57 13 00-0004 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....  | 343.24                    | 54.71                   |
| 07 57 13 00-0005 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                   | 409.42                    | 58.62                   |
| 07 57 13 00-0006 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                       | 475.60                    | 62.53                   |
| 07 57 13 00-0007 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                  | 548.22                    | 66.44                   |
| 07 57 13 00-0008 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                       | 620.84                    | 70.34                   |
| 07 57 13 00-0009 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                  | 680.57                    | 74.25                   |
| 07 57 13 00-0010 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                       | 740.29                    | 78.16                   |
| 07 57 13 00-0011 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                  | 806.47                    | 82.07                   |
| 07 57 13 00-0012 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                       | 872.64                    | 85.97                   |
| 07 57 13 00-0013 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                  | 938.81                    | 89.89                   |
| 07 57 13 00-0014 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....                                       | 1,004.99                  | 93.79                   |
| <b>07 57 13 00-0015 Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)</b>  |                           |                         |
| Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.  |                           |                         |
| 07 57 13 00-0016 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....  | 353.27                    | 54.71                   |
| 07 57 13 00-0017 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....                                   | 419.45                    | 58.62                   |
| 07 57 13 00-0018 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....                                       | 485.63                    | 62.53                   |
| 07 57 13 00-0019 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....                                  | 551.80                    | 66.44                   |
| 07 57 13 00-0020 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....                                       | 617.97                    | 70.34                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 57 13 00-0021 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....                   | 684.15                    | 74.25                   |
| 07 57 13 00-0022 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....                        | 750.32                    | 78.16                   |
| 07 57 13 00-0023 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....                   | 816.50                    | 82.07                   |
| 07 57 13 00-0024 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....                        | 882.67                    | 85.97                   |
| 07 57 13 00-0025 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....                   | 948.84                    | 89.89                   |
| 07 57 13 00-0026 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....                        | 1,015.02                  | 93.79                   |
| <b>07 57 13 00-0027 Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating</b> <small>(07 57 13 00-0002)</small>                               |                           |                         |
| <small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.</small>             |                           |                         |
| 07 57 13 00-0028 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                         | 377.63                    | 54.71                   |
| 07 57 13 00-0029 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                    | 441.66                    | 58.62                   |
| 07 57 13 00-0030 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                        | 505.69                    | 62.53                   |
| 07 57 13 00-0031 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                   | 571.86                    | 66.44                   |
| 07 57 13 00-0032 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                        | 638.03                    | 70.34                   |
| 07 57 13 00-0033 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                   | 731.01                    | 74.25                   |
| 07 57 13 00-0034 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                        | 823.98                    | 78.16                   |
| 07 57 13 00-0035 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                   | 895.60                    | 82.07                   |
| 07 57 13 00-0036 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                        | 967.22                    | 85.97                   |
| 07 57 13 00-0037 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                   | 1,038.83                  | 89.89                   |
| 07 57 13 00-0038 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....                        | 1,110.46                  | 93.79                   |
| <b>07 57 13 00-0039 Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating</b> <small>(07 57 13 00-0001)</small>                                    |                           |                         |
| <b>07 57 13 00-0040 Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating</b> <small>(07 57 13 00-0039)</small>                              |                           |                         |
| <small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.</small>  |                           |                         |
| 07 57 13 00-0041 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                        | 384.80                    | 54.71                   |
| 07 57 13 00-0042 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                   | 456.42                    | 58.62                   |
| 07 57 13 00-0043 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                       | 528.05                    | 62.53                   |
| 07 57 13 00-0044 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                  | 599.66                    | 66.44                   |
| 07 57 13 00-0045 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                       | 671.28                    | 70.34                   |
| 07 57 13 00-0046 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                  | 742.90                    | 74.25                   |
| 07 57 13 00-0047 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                       | 814.52                    | 78.16                   |
| 07 57 13 00-0048 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                  | 886.14                    | 82.07                   |
| 07 57 13 00-0049 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                       | 957.76                    | 85.97                   |
| 07 57 13 00-0050 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                  | 1,029.37                  | 89.89                   |
| 07 57 13 00-0051 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....                       | 1,101.00                  | 93.79                   |
| <b>07 57 13 00-0052 Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating</b> <small>(07 57 13 00-0039)</small>                              |                           |                         |
| <small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.</small> |                           |                         |
| 07 57 13 00-0053 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating .....                        | 398.98                    | 54.71                   |
| 07 57 13 00-0054 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating .....                   | 470.61                    | 58.62                   |
| 07 57 13 00-0055 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating .....                       | 542.23                    | 62.53                   |

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 57 Coated Foamed Roofing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                             | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 07 57 13 00-0056 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....   | 613.85  | 66.44                   |
| 07 57 13 00-0057 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....  | 685.46  | 70.34                   |
| 07 57 13 00-0058 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....   | 757.09  | 74.25                   |
| 07 57 13 00-0059 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....  | 828.70  | 78.16                   |
| 07 57 13 00-0060 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....   | 900.33  | 82.07                   |
| 07 57 13 00-0061 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....  | 971.94  | 85.97                   |
| 07 57 13 00-0062 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....   | 1,043.56  | 89.89                   |
| 07 57 13 00-0063 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....  | 1,115.18  | 93.79                   |
| <b>07 57 13 00-0064 Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating</b> <small>(07 57 13 00-0039)</small><br>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty. |   |                         |
| 07 57 13 00-0065 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....   | 410.02  | 54.71                   |
| 07 57 13 00-0066 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....  | 481.64  | 58.62                   |
| 07 57 13 00-0067 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....  | 553.27  | 62.53                   |
| 07 57 13 00-0068 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....   | 624.88  | 66.44                   |
| 07 57 13 00-0069 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....  | 696.50  | 70.34                   |
| 07 57 13 00-0070 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....   | 768.12  | 74.25                   |
| 07 57 13 00-0071 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....  | 839.74  | 78.16                   |
| 07 57 13 00-0072 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....   | 911.36  | 82.07                   |
| 07 57 13 00-0073 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....  | 982.98  | 85.97                   |
| 07 57 13 00-0074 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....   | 1,054.59  | 89.89                   |
| 07 57 13 00-0075 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....  | 1,126.22  | 93.79                   |
| <b>07 58 Roll Roofing</b> <small>(07 50)</small>   |   |                         |
| 07 58 00 00-0001 Prepared Roll Roofing <small>(07 58)</small><br>Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.  |   |                         |
| 07 58 00 00-0002 SQ Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing.....  | 255.54  | 35.17                   |
| <b>07 59 Membrane Roofing Termination Bar</b> <small>(07 50)</small>   |   |                         |
| 07 59 00 00-0001 Membrane Roofing Termination Bar <small>(07 59)</small>   |   |                         |
| 07 59 00 00-0002 LF Membrane Roofing Termination Bar.....<br>Note: Includes fasteners and caulking.  | 5.04  | 1.60                    |
| <b>07 60 Flashing and Sheet Metal</b> <small>(07)</small>  |   |                         |
| <b>07 61 Sheet Metal Roofing</b> <small>(07 60)</small>  |   |                         |
| <b>07 61 13 Standing Seam Sheet Metal Roofing</b> <small>(07 61)</small>   |   |                         |
| 07 61 13 00-0001 Standing Seam Concealed Fastener Roofing <small>(07 61 13)</small>  |   |                         |
| 07 61 13 00-0002 Copper Standing Seam Concealed Fastener Roofing <small>(07 61 13 00-0001)</small>   |   |                         |
| 07 61 13 00-0003 SF Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing.....<br>For Steep Roof, Over 6 To 12, Add<br>For Panels <16" Wide, Add<br>For 140 MPH Wind Load, Add<br>For Up To 1,500, Add<br>For >1,500 To 5,000, Add<br>For >5,000 To 10,000, Add                         | 36.81<br>2.38<br>3.31<br>1.37<br>9.20<br>5.52<br>0.92 | 3.98                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 61 13 00-0004 SF Architectural 18 Ounce Copper Standing Seam Concealed Fastener Roofing.....            | 40.30                     | 4.31                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.58                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 3.61                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.49                      |                         |
| <i>For Up To 1,500, Add</i>  | 10.08                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 6.05                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.01                      |                         |
| 07 61 13 00-0005 SF Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing.....            | 47.42                     | 4.71                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.82                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 4.11                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.70                      |                         |
| <i>For Up To 1,500, Add</i>  | 11.86                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 7.11                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.19                      |                         |
| <b>07 61 13 00-0006 Zinc/Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)</b>            |                           |                         |
| 07 61 13 00-0007 SF 0.020" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....                | 42.98                     | 4.31                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.58                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 3.74                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.55                      |                         |
| <i>For Up To 1,500, Add</i>  | 10.75                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 6.45                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.07                      |                         |
| <i>For Tin/Copper, Deduct</i>  | -0.69                     |                         |
| 07 61 13 00-0008 SF 0.027" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....                | 51.94                     | 4.49                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.69                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 4.26                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.76                      |                         |
| <i>For Up To 1,500, Add</i>  | 12.99                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 7.79                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.30                      |                         |
| <i>For Tin/Copper, Deduct</i>  | -0.86                     |                         |
| 07 61 13 00-0009 SF 0.032" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....                | 58.97                     | 4.71                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.82                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 4.69                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.93                      |                         |
| <i>For Up To 1,500, Add</i>  | 14.74                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 8.85                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.47                      |                         |
| <i>For Tin/Copper, Deduct</i>  | -0.99                     |                         |
| 07 61 13 00-0010 SF 0.040" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....                | 73.79                     | 4.92                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.95                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 5.51                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 2.26                      |                         |
| <i>For Up To 1,500, Add</i>  | 18.45                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 11.07                     |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.84                      |                         |
| <i>For Tin/Copper, Deduct</i>  | -1.28                     |                         |
| <b>07 61 13 00-0011 Accessories For Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)</b> |                           |                         |
| 07 61 13 00-0012 LF Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing.....                | 153.51                    | 8.21                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 6.16                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 4.71                      |                         |
| 07 61 13 00-0013 LF Eave Flashing For Copper Standing Seam Concealed Fastener Roofing.....                 | 89.11                     | 8.21                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 6.16                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 3.42                      |                         |
| 07 61 13 00-0014 LF Valley Flashing For Copper Standing Seam Concealed Fastener Roofing.....               | 214.41                    | 8.21                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 6.16                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 5.93                      |                         |
| 07 61 13 00-0015 LF Hip Flashing For Copper Standing Seam Concealed Fastener Roofing.....                  | 158.33                    | 8.21                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 6.16                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 4.81                      |                         |
| <b>07 61 16 Batten Seam Sheet Metal Roofing (07 61)</b>  |                           |                         |
| 07 61 16 00-0001 Copper Batten Seam Concealed Fastener Roofing (07 61 16)                                  |                           |                         |
| 07 61 16 00-0002 Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)                          |                           |                         |
| 07 61 16 00-0003 SF 16 Ounce Copper Batten Seam Concealed Fastener Roofing.....                            | 45.31                     | 4.71                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.82                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 4.00                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.66                      |                         |
| <i>For Up To 1,500, Add</i>  | 11.33                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 6.80                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.13                      |                         |
| 07 61 16 00-0004 SF 18 Ounce Copper Batten Seam Concealed Fastener Roofing.....                            | 50.00                     | 4.94                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>   | 2.96                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>  | 4.32                      |                         |
| <i>For 140 MPH Wind Load, Add</i>  | 1.79                      |                         |
| <i>For Up To 1,500, Add</i>  | 12.50                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>   | 7.50                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>  | 1.25                      |                         |



**07 Thermal And Moisture Protection****07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 61 16 00-0005 SF 20 Ounce Copper Batten Seam Concealed Fastener Roofing .....              | 58.22                     | 5.17                    |
| For Steep Roof, Over 6 To 12, Add   | 3.10                      |                         |
| For Panels <16" Wide, Add   | 4.82                      |                         |
| For 140 MPH Wind Load, Add  | 1.99                      |                         |
| For Up To 1,500, Add  | 14.56                     |                         |
| For >1,500 To 5,000, Add  | 8.73                      |                         |
| For >5,000 To 10,000, Add   | 1.46                      |                         |
| <b>07 61 16 00-0006 Zinc/Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)</b> |                           |                         |
| 07 61 16 00-0007 SF 0.020" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing .....    | 45.94                     | 4.31                    |
| For Steep Roof, Over 6 To 12, Add   | 2.58                      |                         |
| For Panels <16" Wide, Add   | 3.89                      |                         |
| For 140 MPH Wind Load, Add  | 1.61                      |                         |
| For Up To 1,500, Add  | 11.49                     |                         |
| For >1,500 To 5,000, Add  | 6.89                      |                         |
| For >5,000 To 10,000, Add   | 1.15                      |                         |
| For Tin/Copper, Deduct  | -0.75                     |                         |
| 07 61 16 00-0008 SF 0.027" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing .....    | 56.17                     | 4.49                    |
| For Steep Roof, Over 6 To 12, Add   | 2.70                      |                         |
| For Panels <16" Wide, Add   | 4.47                      |                         |
| For 140 MPH Wind Load, Add  | 1.84                      |                         |
| For Up To 1,500, Add  | 14.04                     |                         |
| For >1,500 To 5,000, Add  | 8.43                      |                         |
| For >5,000 To 10,000, Add   | 1.40                      |                         |
| For Tin/Copper, Deduct  | -0.94                     |                         |
| 07 61 16 00-0009 SF 0.032" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing .....    | 62.91                     | 4.71                    |
| For Steep Roof, Over 6 To 12, Add   | 2.82                      |                         |
| For Panels <16" Wide, Add   | 4.88                      |                         |
| For 140 MPH Wind Load, Add  | 2.01                      |                         |
| For Up To 1,500, Add  | 15.73                     |                         |
| For >1,500 To 5,000, Add  | 9.44                      |                         |
| For >5,000 To 10,000, Add   | 1.57                      |                         |
| For Tin/Copper, Deduct  | -1.07                     |                         |
| 07 61 16 00-0010 SF 0.040" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing .....    | 78.86                     | 4.92                    |
| For Steep Roof, Over 6 To 12, Add   | 2.95                      |                         |
| For Panels <16" Wide, Add   | 5.76                      |                         |
| For 140 MPH Wind Load, Add  | 2.36                      |                         |
| For Up To 1,500, Add  | 19.72                     |                         |
| For >1,500 To 5,000, Add  | 11.83                     |                         |
| For >5,000 To 10,000, Add   | 1.97                      |                         |
| For Tin/Copper, Deduct  | -1.38                     |                         |
| <b>07 61 19 Flat Seam Sheet Metal Roofing (07 61)</b>   |                           |                         |
| <b>07 61 19 00-0001 Copper Flat Seam Concealed Fastener Roofing (07 61 19)</b>                |                           |                         |
| <b>07 61 19 00-0002 Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)</b>        |                           |                         |
| 07 61 19 00-0003 SF 16 Ounce Copper Flat Seam Concealed Fastener Roofing .....                | 35.09                     | 4.31                    |
| For Steep Roof, Over 6 To 12, Add   | 2.58                      |                         |
| For Panels <16" Wide, Add   | 3.35                      |                         |
| For 140 MPH Wind Load, Add  | 1.39                      |                         |
| For Up To 1,500, Add  | 8.77                      |                         |
| For >1,500 To 5,000, Add  | 5.26                      |                         |
| For >5,000 To 10,000, Add   | 0.88                      |                         |
| 07 61 19 00-0004 SF 18 Ounce Copper Flat Seam Concealed Fastener Roofing .....                | 38.57                     | 4.49                    |
| For Steep Roof, Over 6 To 12, Add   | 2.70                      |                         |
| For Panels <16" Wide, Add   | 3.59                      |                         |
| For 140 MPH Wind Load, Add  | 1.49                      |                         |
| For Up To 1,500, Add  | 9.64                      |                         |
| For >1,500 To 5,000, Add  | 5.79                      |                         |
| For >5,000 To 10,000, Add   | 0.96                      |                         |
| 07 61 19 00-0005 SF 20 Ounce Copper Flat Seam Concealed Fastener Roofing .....                | 44.60                     | 4.71                    |
| For Steep Roof, Over 6 To 12, Add   | 2.82                      |                         |
| For Panels <16" Wide, Add   | 3.97                      |                         |
| For 140 MPH Wind Load, Add  | 1.64                      |                         |
| For Up To 1,500, Add  | 11.15                     |                         |
| For >1,500 To 5,000, Add  | 6.69                      |                         |
| For >5,000 To 10,000, Add   | 1.12                      |                         |
| <b>07 61 19 00-0006 Zinc/Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)</b>   |                           |                         |
| 07 61 19 00-0007 SF 0.020" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing .....      | 40.30                     | 4.31                    |
| For Steep Roof, Over 6 To 12, Add   | 2.58                      |                         |
| For Panels <16" Wide, Add   | 3.61                      |                         |
| For 140 MPH Wind Load, Add  | 1.49                      |                         |
| For Up To 1,500, Add  | 10.08                     |                         |
| For >1,500 To 5,000, Add  | 6.05                      |                         |
| For >5,000 To 10,000, Add   | 1.01                      |                         |
| For Tin/Copper, Deduct  | -0.63                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 61 19 00-0008 SF 0.027" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing..... | 49.13                     | 4.49                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>  | 2.70                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>   | 4.12                      |                         |
| <i>For 140 MPH Wind Load, Add</i>   | 1.70                      |                         |
| <i>For Up To 1,500, Add</i>   | 12.28                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>  | 7.37                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>   | 1.23                      |                         |
| <i>For Tin/Copper, Deduct</i>   | -0.80                     |                         |
| 07 61 19 00-0009 SF 0.032" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing..... | 55.17                     | 4.71                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>  | 2.82                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>   | 4.50                      |                         |
| <i>For 140 MPH Wind Load, Add</i>   | 1.85                      |                         |
| <i>For Up To 1,500, Add</i>   | 13.79                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>  | 8.28                      |                         |
| <i>For &gt;5,000 To 10,000, Add</i>   | 1.38                      |                         |
| <i>For Tin/Copper, Deduct</i>   | -0.92                     |                         |
| 07 61 19 00-0010 SF 0.040" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing..... | 69.00                     | 4.92                    |
| <i>For Steep Roof, Over 6 To 12, Add</i>  | 2.95                      |                         |
| <i>For Panels &lt;16" Wide, Add</i>   | 5.27                      |                         |
| <i>For 140 MPH Wind Load, Add</i>   | 2.17                      |                         |
| <i>For Up To 1,500, Add</i>   | 17.25                     |                         |
| <i>For &gt;1,500 To 5,000, Add</i>  | 10.35                     |                         |
| <i>For &gt;5,000 To 10,000, Add</i>   | 1.73                      |                         |
| <i>For Tin/Copper, Deduct</i>   | -1.18                     |                         |

**07 62 Sheet Metal Flashing and Trim** (07 60)

**07 62 13 Fabricated Copings** (07 62)

**07 62 13 00-0001 Lead Flashing And Trim** (07 62 13)

|  |       |      |
|--|-------|------|
| 07 62 13 00-0002 SF 2.5 LB/SF Sheet Lead Flashing..... | 25.60 | 6.92 |
| <i>For Up To 100, Add</i>                              | 6.40  |      |
| 07 62 13 00-0003 SF 4 LB/SF Sheet Lead Flashing.....   | 32.86 | 6.92 |
| <i>For Up To 100, Add</i>                              | 8.22  |      |

**07 62 13 00-0004 Copper Flashing And Trim** (07 62 13)

**07 62 13 00-0005 Copper Flashing And Trim** (07 62 13 00-0004)

|   |        |      |
|---|--------|------|
| 07 62 13 00-0006 SF 16 Ounce, 0.021" Thick, Copper Flashing And Trim..... | 41.10  | 6.75 |
| <i>For Up To 100, Add</i>   | 10.28  |      |
| <i>For &gt;500 To 2,000, Deduct</i>                                       | -5.61  |      |
| <i>For &gt;2,000, Deduct</i>  | -7.00  |      |
| <i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>       | 2.67   |      |
| <i>For Wrap Around Window Panning, Add</i>                                | 13.36  |      |
| 07 62 13 00-0007 SF 20 Ounce, 0.027" Thick, Copper Flashing And Trim..... | 42.40  | 6.92 |
| <i>For Up To 100, Add</i>   | 10.60  |      |
| <i>For &gt;500 To 2,000, Deduct</i>                                       | -5.79  |      |
| <i>For &gt;2,000, Deduct</i>  | -7.21  |      |
| <i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>       | 2.79   |      |
| <i>For Wrap Around Window Panning, Add</i>                                | 13.96  |      |
| 07 62 13 00-0008 SF 24 Ounce, 0.032" Thick, Copper Flashing And Trim..... | 48.75  | 7.37 |
| <i>For Up To 100, Add</i>   | 12.19  |      |
| <i>For &gt;500 To 2,000, Deduct</i>                                       | -6.63  |      |
| <i>For &gt;2,000, Deduct</i>  | -8.34  |      |
| <i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>       | 2.93   |      |
| <i>For Wrap Around Window Panning, Add</i>                                | 14.63  |      |
| 07 62 13 00-0009 SF 32 Ounce, 0.043" Thick, Copper Flashing And Trim..... | 60.86  | 7.68 |
| <i>For Up To 100, Add</i>   | 15.22  |      |
| <i>For &gt;500 To 2,000, Deduct</i>                                       | -8.22  |      |
| <i>For &gt;2,000, Deduct</i>  | -10.49 |      |
| <i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>       | 3.07   |      |
| <i>For Wrap Around Window Panning, Add</i>                                | 15.36  |      |

**07 62 13 00-0010 Stainless Steel Flashing And Trim** (07 62 13)

**07 62 13 00-0011 Stainless Steel Flashing And Trim** (07 62 13 00-0010)

|   |       |      |
|---|-------|------|
| 07 62 13 00-0012 SF 32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim.....  | 12.61 | 3.69 |
| <i>For Up To 100, Add</i>   | 3.15  |      |
| <i>For Wrap Around Window Panning, Add</i>  | 9.48  |      |
| <i>For Mechanically Keyed Flashing, Add</i>   | 1.25  |      |
| 07 62 13 00-0013 SF 30 Gauge, 0.0125" Thick, Stainless Steel Flashing And Trim..... | 13.54 | 4.15 |
| <i>For Up To 100, Add</i>   | 3.39  |      |
| <i>For Wrap Around Window Panning, Add</i>  | 9.63  |      |
| <i>For Mechanically Keyed Flashing, Add</i>   | 1.56  |      |
| 07 62 13 00-0014 SF 28 Gauge, 0.0156" Thick, Stainless Steel Flashing And Trim..... | 14.48 | 4.60 |
| <i>For Up To 100, Add</i>   | 3.62  |      |
| <i>For Wrap Around Window Panning, Add</i>  | 9.79  |      |
| <i>For Mechanically Keyed Flashing, Add</i>   | 1.88  |      |
| 07 62 13 00-0015 SF 26 Gauge, 0.0187" Thick, Stainless Steel Flashing And Trim..... | 15.97 | 5.07 |
| <i>For Up To 100, Add</i>   | 3.99  |      |
| <i>For Wrap Around Window Panning, Add</i>  | 10.10 |      |
| <i>For Mechanically Keyed Flashing, Add</i>   | 2.35  |      |

**07 Thermal And Moisture Protection****07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 62 13 00-0016 SF 24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim.....               | 18.49                     | 5.38                    |
| For Up To 100, Add   | 4.62                      |                         |
| For Wrap Around Window Panning, Add  | 10.67                     |                         |
| For Mechanically Keyed Flashing, Add   | 3.13                      |                         |
| 07 62 13 00-0017 SF 22 Gauge, 0.031" Thick, Stainless Steel Flashing And Trim.....               | 20.11                     | 5.65                    |
| For Up To 100, Add   | 5.03                      |                         |
| For Wrap Around Window Panning, Add  | 11.29                     |                         |
| For Mechanically Keyed Flashing, Add   | 3.53                      |                         |
| 07 62 13 00-0018 SF 20 Gauge, 0.0375" Thick, Stainless Steel Flashing And Trim.....              | 21.51                     | 5.99                    |
| For Up To 100, Add   | 5.38                      |                         |
| For Wrap Around Window Panning, Add  | 11.95                     |                         |
| For Mechanically Keyed Flashing, Add   | 3.82                      |                         |
| <b>07 62 13 00-0019 Aluminum Flashing And Trim (07 62 13)</b>                                    |                           |                         |
| <b>07 62 13 00-0020 Aluminum Flashing And Trim (07 62 13 00-0019)</b>                            |                           |                         |
| 07 62 13 00-0021 SF 0.013" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 13.90                     | 4.76                    |
| For Up To 100, Add   | 3.48                      |                         |
| For Baked Aluminum Colors, Add   | 0.33                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| 07 62 13 00-0022 SF 0.016" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 14.62                     | 4.76                    |
| For Up To 100, Add   | 3.66                      |                         |
| For Baked Aluminum Colors, Add   | 0.40                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| 07 62 13 00-0023 SF 0.019" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 15.19                     | 4.76                    |
| For Up To 100, Add   | 3.80                      |                         |
| For Baked Aluminum Colors, Add   | 0.46                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| 07 62 13 00-0024 SF 0.024" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 16.02                     | 4.76                    |
| For Up To 100, Add   | 4.01                      |                         |
| For Baked Aluminum Colors, Add   | 0.54                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| 07 62 13 00-0025 SF 0.032" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 17.18                     | 4.76                    |
| For Up To 100, Add   | 4.30                      |                         |
| For Baked Aluminum Colors, Add   | 0.66                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| 07 62 13 00-0026 SF 0.040" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 17.89                     | 4.76                    |
| For Up To 100, Add   | 4.47                      |                         |
| For Baked Aluminum Colors, Add   | 0.73                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| 07 62 13 00-0027 SF 0.050" Thick, Mill Finish, Aluminum Flashing And Trim .....                  | 18.46                     | 4.76                    |
| For Up To 100, Add   | 4.62                      |                         |
| For Baked Aluminum Colors, Add   | 0.79                      |                         |
| For Wrap Around Window Panning, Add  | 10.59                     |                         |
| <b>07 62 13 00-0028 Steel Flashing And Trim (07 62 13)</b>                                       |                           |                         |
| <b>07 62 13 00-0029 Galvanized Steel Flashing And Trim (07 62 13 00-0028)</b>                    |                           |                         |
| 07 62 13 00-0030 SF 28 Gauge, 0.019" Thick, Galvanized Steel Flashing.....                       | 14.36                     | 4.60                    |
| For Up To 100, Add   | 3.59                      |                         |
| For Wrap Around Window Panning, Add  | 9.79                      |                         |
| 07 62 13 00-0031 SF 26 Gauge, 0.022" Thick, Galvanized Steel Flashing.....                       | 14.92                     | 5.07                    |
| For Up To 100, Add   | 3.73                      |                         |
| For Wrap Around Window Panning, Add  | 10.10                     |                         |
| 07 62 13 00-0032 SF 24 Gauge, 0.028" Thick, Galvanized Steel Flashing.....                       | 15.87                     | 5.38                    |
| For Up To 100, Add   | 3.97                      |                         |
| For Wrap Around Window Panning, Add  | 10.67                     |                         |
| 07 62 13 00-0033 SF 22 Gauge, 0.034" Thick, Galvanized Steel Flashing.....                       | 16.87                     | 5.65                    |
| For Up To 100, Add   | 4.22                      |                         |
| For Wrap Around Window Panning, Add  | 11.29                     |                         |
| 07 62 13 00-0034 SF 20 Gauge, 0.04" Thick, Galvanized Steel Flashing.....                        | 18.20                     | 5.99                    |
| For Up To 100, Add   | 4.55                      |                         |
| For Wrap Around Window Panning, Add  | 11.95                     |                         |
| <b>07 62 19 Fabricated Gravel Stops and Fasciae (07 62)</b>                                      |                           |                         |
| <b>07 62 19 00-0001 Drip Edge (07 62 19)</b>   |                           |                         |
| <b>07 62 19 00-0002 Aluminum Drip Edge (07 62 19 00-0001)</b>                                    |                           |                         |
| Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.                   |                           |                         |
| <b>07 62 19 00-0003 KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0002)</b>                 |                           |                         |
| <b>07 62 19 00-0004 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0005 LF Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 12.59                     | 1.76                    |
| 07 62 19 00-0006 LF >5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 15.70                     | 1.88                    |
| 07 62 19 00-0007 LF >7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 17.73                     | 2.11                    |
| 07 62 19 00-0008 LF >9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 21.34                     | 2.23                    |
| 07 62 19 00-0009 LF >12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 27.25                     | 2.35                    |
| <b>07 62 19 00-0010 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 62 19 00-0011 LF Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 13.47                     | 1.76                    |
| 07 62 19 00-0012 LF >5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 16.68                     | 1.88                    |
| 07 62 19 00-0013 LF >7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 19.20                     | 2.11                    |
| 07 62 19 00-0014 LF >9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 23.09                     | 2.23                    |
| 07 62 19 00-0015 LF >12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 28.91                     | 2.35                    |
| <b>07 62 19 00-0016 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0017 LF Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 14.35                     | 1.76                    |
| 07 62 19 00-0018 LF >5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 17.85                     | 1.88                    |
| 07 62 19 00-0019 LF >7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 20.61                     | 2.11                    |
| 07 62 19 00-0020 LF >9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 24.85                     | 2.23                    |
| 07 62 19 00-0021 LF >12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 31.25                     | 2.35                    |
| <b>07 62 19 00-0022 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0023 LF Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 16.11                     | 1.76                    |
| 07 62 19 00-0024 LF >5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 20.19                     | 1.88                    |
| 07 62 19 00-0025 LF >7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 23.39                     | 2.11                    |
| 07 62 19 00-0026 LF >9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 28.37                     | 2.23                    |
| 07 62 19 00-0027 LF >12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 35.94                     | 2.35                    |
| <b>07 62 19 00-0028 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0029 LF Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 16.69                     | 1.76                    |
| 07 62 19 00-0030 LF >5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 21.07                     | 1.88                    |
| 07 62 19 00-0031 LF >7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 24.32                     | 2.11                    |
| 07 62 19 00-0032 LF >9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 29.54                     | 2.23                    |
| 07 62 19 00-0033 LF >12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 37.50                     | 2.35                    |
| <b>07 62 19 00-0034 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0035 LF Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 18.74                     | 1.76                    |
| 07 62 19 00-0036 LF >5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 23.71                     | 1.88                    |
| 07 62 19 00-0037 LF >7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 27.54                     | 2.11                    |
| 07 62 19 00-0038 LF >9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 33.64                     | 2.23                    |
| 07 62 19 00-0039 LF >12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 42.97                     | 2.35                    |
| <b>07 62 19 00-0040 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0041 LF Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 21.67                     | 1.76                    |
| 07 62 19 00-0042 LF >5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 27.61                     | 1.88                    |
| 07 62 19 00-0043 LF >7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 32.18                     | 2.11                    |
| 07 62 19 00-0044 LF >9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 39.50                     | 2.23                    |
| 07 62 19 00-0045 LF >12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 50.78                     | 2.35                    |
| <b>07 62 19 00-0046 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)</b>   |                           |                         |
| 07 62 19 00-0047 LF Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....    | 25.19                     | 1.76                    |
| 07 62 19 00-0048 LF >5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 32.30                     | 1.88                    |
| 07 62 19 00-0049 LF >7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....   | 37.75                     | 2.11                    |
| 07 62 19 00-0050 LF >9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge .....  | 46.53                     | 2.23                    |
| 07 62 19 00-0051 LF >12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge ..... | 60.15                     | 2.35                    |
| <b>07 62 19 00-0052 Mill Finish, Aluminum Drip Edge (07 62 19 00-0002)</b>                       |                           |                         |
| <b>07 62 19 00-0053 0.016" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)</b>         |                           |                         |
| 07 62 19 00-0054 LF Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge .....          | 10.32                     | 1.76                    |
| 07 62 19 00-0055 LF >5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge .....         | 12.61                     | 1.88                    |
| 07 62 19 00-0056 LF >7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge .....         | 14.16                     | 2.11                    |
| 07 62 19 00-0057 LF >9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge .....        | 16.79                     | 2.23                    |
| 07 62 19 00-0058 LF >12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge .....       | 20.98                     | 2.35                    |
| <b>07 62 19 00-0059 0.019" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)</b>         |                           |                         |
| 07 62 19 00-0060 LF Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge .....          | 10.93                     | 1.76                    |
| 07 62 19 00-0061 LF >5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge .....         | 13.28                     | 1.88                    |
| 07 62 19 00-0062 LF >7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge .....         | 15.17                     | 2.11                    |
| 07 62 19 00-0063 LF >9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge .....        | 18.00                     | 2.23                    |
| 07 62 19 00-0064 LF >12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge .....       | 22.12                     | 2.35                    |
| <b>07 62 19 00-0065 0.025" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)</b>         |                           |                         |
| 07 62 19 00-0066 LF Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge .....          | 11.53                     | 1.76                    |
| 07 62 19 00-0067 LF >5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge .....         | 14.09                     | 1.88                    |
| 07 62 19 00-0068 LF >7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge .....         | 16.14                     | 2.11                    |
| 07 62 19 00-0069 LF >9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge .....        | 19.21                     | 2.23                    |
| 07 62 19 00-0070 LF >12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge .....       | 23.74                     | 2.35                    |

**07 Thermal And Moisture Protection****07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 07 62 19 00-0071 |     |     | <b>0.032" Thick, Mill Finish, Aluminum Drip Edge</b> (07 62 19 00-0052)           |                        |                      |
| 07 62 19 00-0072 | LF  |     | Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....                | 12.74                  | 1.76                 |
| 07 62 19 00-0073 | LF  |     | >5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....               | 15.71                  | 1.88                 |
| 07 62 19 00-0074 | LF  |     | >7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....               | 18.06                  | 2.11                 |
| 07 62 19 00-0075 | LF  |     | >9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....              | 21.64                  | 2.23                 |
| 07 62 19 00-0076 | LF  |     | >12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....             | 26.97                  | 2.35                 |
| 07 62 19 00-0077 |     |     | <b>0.040" Thick, Mill Finish, Aluminum Drip Edge</b> (07 62 19 00-0052)           |                        |                      |
| 07 62 19 00-0078 | LF  |     | Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....                | 13.15                  | 1.76                 |
| 07 62 19 00-0079 | LF  |     | >5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....               | 16.31                  | 1.88                 |
| 07 62 19 00-0080 | LF  |     | >7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....               | 18.70                  | 2.11                 |
| 07 62 19 00-0081 | LF  |     | >9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....              | 22.45                  | 2.23                 |
| 07 62 19 00-0082 | LF  |     | >12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....             | 28.05                  | 2.35                 |
| 07 62 19 00-0083 |     |     | <b>0.050" Thick, Mill Finish, Aluminum Drip Edge</b> (07 62 19 00-0052)           |                        |                      |
| 07 62 19 00-0084 | LF  |     | Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....                | 14.56                  | 1.76                 |
| 07 62 19 00-0085 | LF  |     | >5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....               | 18.13                  | 1.88                 |
| 07 62 19 00-0086 | LF  |     | >7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....               | 20.92                  | 2.11                 |
| 07 62 19 00-0087 | LF  |     | >9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....              | 25.27                  | 2.23                 |
| 07 62 19 00-0088 | LF  |     | >12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....             | 31.82                  | 2.35                 |
| 07 62 19 00-0089 |     |     | <b>0.063" Thick, Mill Finish, Aluminum Drip Edge</b> (07 62 19 00-0052)           |                        |                      |
| 07 62 19 00-0090 | LF  |     | Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....                | 16.58                  | 1.76                 |
| 07 62 19 00-0091 | LF  |     | >5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....               | 20.82                  | 1.88                 |
| 07 62 19 00-0092 | LF  |     | >7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....               | 24.12                  | 2.11                 |
| 07 62 19 00-0093 | LF  |     | >9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....              | 29.31                  | 2.23                 |
| 07 62 19 00-0094 | LF  |     | >12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....             | 37.21                  | 2.35                 |
| 07 62 19 00-0095 |     |     | <b>0.080" Thick, Mill Finish, Aluminum Drip Edge</b> (07 62 19 00-0052)           |                        |                      |
| 07 62 19 00-0096 | LF  |     | Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....                | 19.01                  | 1.76                 |
| 07 62 19 00-0097 | LF  |     | >5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....               | 24.06                  | 1.88                 |
| 07 62 19 00-0098 | LF  |     | >7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....               | 27.96                  | 2.11                 |
| 07 62 19 00-0099 | LF  |     | >9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....              | 34.16                  | 2.23                 |
| 07 62 19 00-0100 | LF  |     | >12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....             | 43.67                  | 2.35                 |
| 07 62 19 00-0101 |     |     | <b>Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 19 00-0002)               |                        |                      |
| 07 62 19 00-0102 |     |     | <b>0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 19 00-0101) |                        |                      |
| 07 62 19 00-0103 | LF  |     | Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....      | 13.03                  | 1.76                 |
| 07 62 19 00-0104 | LF  |     | >5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 16.30                  | 1.88                 |
| 07 62 19 00-0105 | LF  |     | >7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 18.42                  | 2.11                 |
| 07 62 19 00-0106 | LF  |     | >9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....    | 22.21                  | 2.23                 |
| 07 62 19 00-0107 | LF  |     | >12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 28.46                  | 2.35                 |
| 07 62 19 00-0108 |     |     | <b>0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 19 00-0101) |                        |                      |
| 07 62 19 00-0109 | LF  |     | Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....      | 13.96                  | 1.76                 |
| 07 62 19 00-0110 | LF  |     | >5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 17.33                  | 1.88                 |
| 07 62 19 00-0111 | LF  |     | >7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 19.97                  | 2.11                 |
| 07 62 19 00-0112 | LF  |     | >9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....    | 24.08                  | 2.23                 |
| 07 62 19 00-0113 | LF  |     | >12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 30.22                  | 2.35                 |
| 07 62 19 00-0114 |     |     | <b>0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 19 00-0101) |                        |                      |
| 07 62 19 00-0115 | LF  |     | Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....      | 14.90                  | 1.76                 |
| 07 62 19 00-0116 | LF  |     | >5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 18.57                  | 1.88                 |
| 07 62 19 00-0117 | LF  |     | >7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 21.48                  | 2.11                 |
| 07 62 19 00-0118 | LF  |     | >9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....    | 25.94                  | 2.23                 |
| 07 62 19 00-0119 | LF  |     | >12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 32.71                  | 2.35                 |
| 07 62 19 00-0120 |     |     | <b>0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 19 00-0101) |                        |                      |
| 07 62 19 00-0121 | LF  |     | Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....      | 16.76                  | 1.76                 |
| 07 62 19 00-0122 | LF  |     | >5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 21.06                  | 1.88                 |
| 07 62 19 00-0123 | LF  |     | >7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 24.43                  | 2.11                 |
| 07 62 19 00-0124 | LF  |     | >9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....    | 29.67                  | 2.23                 |
| 07 62 19 00-0125 | LF  |     | >12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 37.67                  | 2.35                 |
| 07 62 19 00-0126 |     |     | <b>0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 19 00-0101) |                        |                      |
| 07 62 19 00-0127 | LF  |     | Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....      | 17.38                  | 1.76                 |
| 07 62 19 00-0128 | LF  |     | >5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....     | 21.99                  | 1.88                 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 62 19 00-0129 LF >7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 25.41                     | 2.11                    |
| 07 62 19 00-0130 LF >9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....  | 30.91                     | 2.23                    |
| 07 62 19 00-0131 LF >12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge..... | 39.33                     | 2.35                    |
| <b>07 62 19 00-0132 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)</b>  |                           |                         |
| 07 62 19 00-0133 LF Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge .....   | 19.55                     | 1.76                    |
| 07 62 19 00-0134 LF >5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 24.78                     | 1.88                    |
| 07 62 19 00-0135 LF >7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 28.82                     | 2.11                    |
| 07 62 19 00-0136 LF >9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....  | 35.25                     | 2.23                    |
| 07 62 19 00-0137 LF >12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge..... | 45.13                     | 2.35                    |
| <b>07 62 19 00-0138 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)</b>  |                           |                         |
| 07 62 19 00-0139 LF Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge .....   | 22.66                     | 1.76                    |
| 07 62 19 00-0140 LF >5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 28.92                     | 1.88                    |
| 07 62 19 00-0141 LF >7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 33.74                     | 2.11                    |
| 07 62 19 00-0142 LF >9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....  | 41.46                     | 2.23                    |
| 07 62 19 00-0143 LF >12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge..... | 53.41                     | 2.35                    |
| <b>07 62 19 00-0144 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)</b>  |                           |                         |
| 07 62 19 00-0145 LF Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge .....   | 26.38                     | 1.76                    |
| 07 62 19 00-0146 LF >5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 33.89                     | 1.88                    |
| 07 62 19 00-0147 LF >7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....   | 39.64                     | 2.11                    |
| 07 62 19 00-0148 LF >9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....  | 48.92                     | 2.23                    |
| 07 62 19 00-0149 LF >12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge..... | 63.34                     | 2.35                    |
| <b>07 62 19 00-0150 Galvanized Steel Drip Edge (07 62 19 00-0001)</b>                               |                           |                         |
| Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.                      |                           |                         |
| <b>07 62 19 00-0151 Galvanized Steel Drip Edge (07 62 19 00-0150)</b>                               |                           |                         |
| <b>07 62 19 00-0152 26 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)</b>                     |                           |                         |
| 07 62 19 00-0153 LF Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge .....                      | 12.01                     | 1.76                    |
| 07 62 19 00-0154 LF >5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge.....                      | 14.78                     | 1.88                    |
| 07 62 19 00-0155 LF >7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....                      | 16.89                     | 2.11                    |
| 07 62 19 00-0156 LF >9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....                     | 20.16                     | 2.23                    |
| 07 62 19 00-0157 LF >12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....                    | 25.00                     | 2.35                    |
| <b>07 62 19 00-0158 24 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)</b>                     |                           |                         |
| 07 62 19 00-0159 LF Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge .....                      | 13.02                     | 1.76                    |
| 07 62 19 00-0160 LF >5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....                      | 16.14                     | 1.88                    |
| 07 62 19 00-0161 LF >7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....                      | 18.49                     | 2.11                    |
| 07 62 19 00-0162 LF >9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....                     | 22.19                     | 2.23                    |
| 07 62 19 00-0163 LF >12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....                    | 27.69                     | 2.35                    |
| <b>07 62 19 00-0164 KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0150)</b>            |                           |                         |
| <b>07 62 19 00-0165 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)</b>  |                           |                         |
| 07 62 19 00-0166 LF Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge .....   | 15.04                     | 1.76                    |
| 07 62 19 00-0167 LF >5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....   | 18.85                     | 1.88                    |
| 07 62 19 00-0168 LF >7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....   | 21.70                     | 2.11                    |
| 07 62 19 00-0169 LF >9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....  | 26.22                     | 2.23                    |
| 07 62 19 00-0170 LF >12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge..... | 33.09                     | 2.35                    |
| <b>07 62 19 00-0171 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)</b>  |                           |                         |
| 07 62 19 00-0172 LF Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge .....   | 16.50                     | 1.76                    |
| 07 62 19 00-0173 LF >5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....   | 20.81                     | 1.88                    |
| 07 62 19 00-0174 LF >7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....   | 24.02                     | 2.11                    |
| 07 62 19 00-0175 LF >9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....  | 29.15                     | 2.23                    |
| 07 62 19 00-0176 LF >12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge..... | 36.99                     | 2.35                    |
| <b>07 62 19 00-0177 Stainless Steel Drip Edge (07 62 19 00-0001)</b>                                |                           |                         |
| Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.                      |                           |                         |
| <b>07 62 19 00-0178 26 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)</b>                      |                           |                         |
| 07 62 19 00-0179 LF Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge .....                       | 20.63                     | 1.76                    |
| 07 62 19 00-0180 LF >5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....                       | 26.22                     | 1.88                    |
| 07 62 19 00-0181 LF >7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge.....                       | 30.53                     | 2.11                    |
| 07 62 19 00-0182 LF >9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....                      | 37.42                     | 2.23                    |
| 07 62 19 00-0183 LF >12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge.....                     | 48.01                     | 2.35                    |
| <b>07 62 19 00-0184 24 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)</b>                      |                           |                         |
| 07 62 19 00-0185 LF Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....                        | 25.47                     | 1.76                    |

**07 Thermal And Moisture Protection****07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 62 19 00-0186 LF >5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge .....   | 32.67                     | 1.88                    |
| 07 62 19 00-0187 LF >7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge .....   | 38.22                     | 2.11                    |
| 07 62 19 00-0188 LF >9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge .....  | 47.09                     | 2.23                    |
| 07 62 19 00-0189 LF >12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge .....                                       | 60.90                     | 2.35                    |
| <b>07 62 19 00-0190 22 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)</b>   |                           |                         |
| 07 62 19 00-0191 LF Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge .....  | 31.16                     | 1.76                    |
| 07 62 19 00-0192 LF >5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge .....   | 40.26                     | 1.88                    |
| 07 62 19 00-0193 LF >7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge .....   | 47.22                     | 2.11                    |
| 07 62 19 00-0194 LF >9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge .....  | 58.47                     | 2.23                    |
| 07 62 19 00-0195 LF >12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge .....                                       | 76.08                     | 2.35                    |
| <b>07 63 Sheet Metal Roofing Specialties (07 60)</b>   |                           |                         |
| <b>07 63 00 00-0001 Pitch Pockets (07 63)</b>  |                           |                         |
| Note: Cut into deck, filled with non-shrink grout, includes blocking.  |                           |                         |
| <b>07 63 00 00-0002 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)</b>      |                           |                         |
| 07 63 00 00-0003 EA 4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                 | 96.48                     |                         |
| For Pourable Sealer Filled, Add  | 39.13                     |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 19.58                     |                         |
| 07 63 00 00-0004 EA 6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                 | 115.23                    |                         |
| For Pourable Sealer Filled, Add  | 88.10                     |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 44.17                     |                         |
| 07 63 00 00-0005 EA 8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                 | 139.64                    |                         |
| For Pourable Sealer Filled, Add  | 156.54                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 78.09                     |                         |
| 07 63 00 00-0006 EA 8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                | 153.73                    |                         |
| For Pourable Sealer Filled, Add  | 195.67                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 98.15                     |                         |
| 07 63 00 00-0007 EA 8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                | 166.80                    |                         |
| For Pourable Sealer Filled, Add  | 234.80                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 117.42                    |                         |
| 07 63 00 00-0008 SF 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                         | 195.84                    |                         |
| For Pourable Sealer Filled, Add  | 352.20                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 175.02                    |                         |
| <b>07 63 00 00-0009 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)</b>          |                           |                         |
| 07 63 00 00-0010 EA 4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                     | 106.53                    |                         |
| For Pourable Sealer Filled, Add  | 39.13                     |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 19.58                     |                         |
| 07 63 00 00-0011 EA 6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                     | 127.01                    |                         |
| For Pourable Sealer Filled, Add  | 88.10                     |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 44.17                     |                         |
| 07 63 00 00-0012 EA 8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                     | 153.76                    |                         |
| For Pourable Sealer Filled, Add  | 156.54                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 78.09                     |                         |
| 07 63 00 00-0013 EA 8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                    | 171.47                    |                         |
| For Pourable Sealer Filled, Add  | 195.67                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 98.15                     |                         |
| 07 63 00 00-0014 EA 8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                    | 184.60                    |                         |
| For Pourable Sealer Filled, Add  | 234.80                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 117.42                    |                         |
| 07 63 00 00-0015 SF 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                             | 214.73                    |                         |
| For Pourable Sealer Filled, Add  | 352.20                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 175.02                    |                         |
| <b>07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)</b> |                           |                         |
| 07 63 00 00-0017 EA 4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....            | 109.58                    |                         |
| For Pourable Sealer Filled, Add  | 39.13                     |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 19.58                     |                         |
| 07 63 00 00-0018 EA 6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....            | 129.58                    |                         |
| For Pourable Sealer Filled, Add  | 88.10                     |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 44.17                     |                         |
| 07 63 00 00-0019 EA 8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....            | 150.49                    |                         |
| For Pourable Sealer Filled, Add  | 156.54                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 78.09                     |                         |
| 07 63 00 00-0020 EA 8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....           | 163.86                    |                         |
| For Pourable Sealer Filled, Add  | 195.67                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 98.15                     |                         |
| 07 63 00 00-0021 EA 8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....           | 176.02                    |                         |
| For Pourable Sealer Filled, Add  | 234.80                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 117.42                    |                         |
| 07 63 00 00-0022 SF 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....                    | 203.15                    |                         |
| For Pourable Sealer Filled, Add  | 352.20                    |                         |
| For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add                               | 175.02                    |                         |



|  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|--|------------------------|----------------------|
| 07 63 00 00-0023   |       |     |     | <b>Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout</b> <small>(07 63 00 00-0001)</small><br>Note: Includes removing existing filler and refilling with non-shrink grout. |                        |                      |
| 07 63 00 00-0024   | EA    |     |     | Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout.....  | 77.77                  |                      |
|  |       |     |     | <i>For Pourable Sealer Filled, Add</i>   | 39.13                  |                      |
|  |       |     |     | <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>  | 19.58                  |                      |
| 07 63 00 00-0025   | EA    |     |     | Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout.....  | 89.36                  |                      |
|  |       |     |     | <i>For Pourable Sealer Filled, Add</i>   | 88.10                  |                      |
|  |       |     |     | <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>  | 44.17                  |                      |
| 07 63 00 00-0026   | EA    |     |     | Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout.....  | 104.76                 |                      |
|  |       |     |     | <i>For Pourable Sealer Filled, Add</i>   | 156.54                 |                      |
|  |       |     |     | <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>  | 78.09                  |                      |
| 07 63 00 00-0027   | EA    |     |     | Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout.....   | 114.54                 |                      |
|  |       |     |     | <i>For Pourable Sealer Filled, Add</i>   | 195.67                 |                      |
|  |       |     |     | <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>  | 98.15                  |                      |
| 07 63 00 00-0028   | EA    |     |     | Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout.....   | 124.32                 |                      |
|  |       |     |     | <i>For Pourable Sealer Filled, Add</i>   | 234.80                 |                      |
|  |       |     |     | <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>  | 117.42                 |                      |
| 07 63 00 00-0029   | SF    |     |     | Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout.....  | 148.95                 |                      |
|  |       |     |     | <i>For Pourable Sealer Filled, Add</i>   | 352.20                 |                      |
|  |       |     |     | <i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>  | 175.02                 |                      |
| 07 63 00 00-0030   |       |     |     | <b>Lead Pipe Flashing For Roofs</b> <small>(07 63)</small><br>Note: Includes 6" skirt base.  |                        |                      |
| 07 63 00 00-0031   | EA    |     |     | 1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe .....  | 115.21                 | 40.27                |
| 07 63 00 00-0032   | EA    |     |     | 1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe .....  | 115.21                 | 40.27                |
| 07 63 00 00-0033   | EA    |     |     | 2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe .....  | 134.63                 | 40.27                |
| 07 63 00 00-0034   | EA    |     |     | 3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe .....  | 145.73                 | 40.27                |
| 07 63 00 00-0035   | EA    |     |     | 4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe .....  | 151.28                 | 40.27                |
| 07 63 00 00-0036   | EA    |     |     | 4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe .....  | 154.05                 | 40.27                |
| 07 63 00 00-0037   | EA    |     |     | 6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe .....  | 181.79                 | 40.27                |
| 07 63 00 00-0038   | EA    |     |     | 8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe .....  | 194.28                 | 40.27                |
| 07 63 00 00-0039   |       |     |     | <b>Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing</b> <small>(07 63)</small>  |                        |                      |
| 07 63 00 00-0040   | EA    |     |     | 2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....   | 98.55                  | 26.03                |
| 07 63 00 00-0041   | EA    |     |     | 3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....   | 99.66                  | 26.03                |
| 07 63 00 00-0042   | EA    |     |     | 4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....   | 103.68                 | 26.03                |
| 07 63 00 00-0043   | EA    |     |     | 6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....   | 107.14                 | 26.03                |
| <b>07 65 Flexible Flashing</b> <small>(07 60)</small>                      |       |     |     |  |                        |                      |
| <b>07 65 16 Modified Bituminous Sheet Flashing</b> <small>(07 65)</small>  |       |     |     |  |                        |                      |
| 07 65 16 00-0001   |       |     |     | <b>Liquid Flashing System For Modified And BUR Systems</b> <small>(07 65 16)</small><br>See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.                                  |                        |                      |
| 07 65 16 00-0002   | SF    |     |     | 60 Mil, Urethane Elastomer Liquid Applied Flashing .....   | 14.39                  | 2.23                 |
|  |       |     |     | Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 30 mil second coat.  |                        |                      |
| <b>07 65 19 Plastic Sheet Flashing</b> <small>(07 65)</small>              |       |     |     |  |                        |                      |
| 07 65 19 00-0001   |       |     |     | <b>Plastic Flashing And Trim</b> <small>(07 65 19)</small>   |                        |                      |
| 07 65 19 00-0002   |       |     |     | <b>Neoprene Flashing</b> <small>(07 65 19 00-0001)</small>   |                        |                      |
| 07 65 19 00-0003   |       |     |     | <b>60 Mil Neoprene Flashing</b> <small>(07 65 19 00-0002)</small>  |                        |                      |
| 07 65 19 00-0004   | LF    |     |     | 6" Wide Strip, 60 Mil, Neoprene Flashing .....   | 9.90                   | 3.16                 |
| 07 65 19 00-0005   | LF    |     |     | 12" Wide Strip, 60 Mil, Neoprene Flashing .....  | 13.15                  | 3.40                 |
| 07 65 19 00-0006   | LF    |     |     | 18" Wide Strip, 60 Mil, Neoprene Flashing .....  | 16.75                  | 3.75                 |
| 07 65 19 00-0007   | LF    |     |     | 24" Wide Strip, 60 Mil, Neoprene Flashing .....  | 20.56                  | 4.22                 |
| <b>07 65 33 Flexible Roof Boot</b> <small>(07 65)</small>                  |       |     |     |  |                        |                      |
| 07 65 33 00-0001   |       |     |     | <b>Neoprene Roof Boot</b> <small>(07 65 33)</small>  |                        |                      |
| 07 65 33 00-0002   | EA    |     |     | 2" Diameter Pipe, Neoprene Roof Boot .....   | 58.53                  | 9.73                 |
| 07 65 33 00-0003   | EA    |     |     | 3" Diameter Pipe, Neoprene Roof Boot .....   | 70.17                  | 10.90                |
| 07 65 33 00-0004   | EA    |     |     | 4" Diameter Pipe, Neoprene Roof Boot .....   | 79.00                  | 11.73                |
| <b>07 70 Roof and Wall Specialties and Accessories</b> <small>(07)</small> |       |     |     |  |                        |                      |
| <b>07 71 Roof Specialties</b> <small>(07 70)</small>                       |       |     |     |  |                        |                      |
| <b>07 71 13 Manufactured Copings</b> <small>(07 71)</small>                |       |     |     |  |                        |                      |
| 07 71 13 00-0001   |       |     |     | <b>Galvanized Steel Copings</b> <small>(07 71 13)</small>  |                        |                      |





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 71 13 00-0002 |     |     | <b>KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0001)</small><br>Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners. |                        |                      |
| 07 71 13 00-0003 | LF  |     | >10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats .....   | 34.18                  | 2.53                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.42                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 5.11                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.55                   |                      |
| 07 71 13 00-0004 | LF  |     | >14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats .....   | 36.07                  | 2.74                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.46                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 5.44                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.72                   |                      |
| 07 71 13 00-0005 | LF  |     | >16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats .....   | 41.11                  | 2.88                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.48                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 6.04                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.02                   |                      |
| 07 71 13 00-0006 | LF  |     | >22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats .....   | 47.72                  | 3.16                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.53                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 6.88                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.44                   |                      |
| 07 71 13 00-0007 | LF  |     | >30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats .....   | 57.63                  | 3.30                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.55                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 7.97                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.98                   |                      |
| 07 71 13 00-0008 |     |     | <b>Aluminum Copings</b> <small>(07 71 13)</small>  |                        |                      |
| 07 71 13 00-0009 |     |     | <b>Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0008)</small><br>Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.               |                        |                      |
| 07 71 13 00-0010 |     |     | <b>0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small>  |                        |                      |
| 07 71 13 00-0011 | LF  |     | 10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....  | 27.19                  | 2.53                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.42                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 4.41                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.20                   |                      |
| 07 71 13 00-0012 | LF  |     | >14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 29.03                  | 2.74                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.46                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 4.73                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.37                   |                      |
| 07 71 13 00-0013 | LF  |     | >16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 33.81                  | 2.88                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.48                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 5.31                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.65                   |                      |
| 07 71 13 00-0014 | LF  |     | >22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 40.33                  | 3.16                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.53                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 6.14                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.07                   |                      |
| 07 71 13 00-0015 | LF  |     | >30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 50.05                  | 3.30                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.55                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 7.21                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.60                   |                      |
| 07 71 13 00-0016 |     |     | <b>0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small>  |                        |                      |
| 07 71 13 00-0017 | LF  |     | 10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....  | 29.49                  | 2.53                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.42                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 4.64                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.32                   |                      |
| 07 71 13 00-0018 | LF  |     | >14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 31.48                  | 2.74                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.46                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 4.98                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.49                   |                      |
| 07 71 13 00-0019 | LF  |     | >16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 36.71                  | 2.88                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.48                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 5.60                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 2.80                   |                      |
| 07 71 13 00-0020 | LF  |     | >22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 43.84                  | 3.16                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.53                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 6.49                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.25                   |                      |
| 07 71 13 00-0021 | LF  |     | >30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....   | 54.50                  | 3.30                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.55                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 7.65                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.83                   |                      |



|  | MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|-------------|------------------------|----------------------|
|--|-------|-----|-----|-------------|------------------------|----------------------|

|                  |                  |    |  |   |       |      |
|------------------|------------------|----|--|---|-------|------|
| 07 71 13 00-0022 |                  |    |  | 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>  |       |      |
|                  | 07 71 13 00-0023 | LF |  | 10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats.....  | 31.38 | 2.53 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.42 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 4.83  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 2.41  |      |
|                  | 07 71 13 00-0024 | LF |  | >14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 33.66 | 2.74 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.46 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 5.19  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 2.60  |      |
|                  | 07 71 13 00-0025 | LF |  | >16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 40.32 | 2.88 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.48 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 5.96  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 2.98  |      |
|                  | 07 71 13 00-0026 | LF |  | >22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 50.30 | 3.16 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.53 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 7.14  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 3.57  |      |
|                  | 07 71 13 00-0027 | LF |  | >30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 64.96 | 3.30 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.55 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 8.70  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 4.35  |      |
|                  |                  |    |  |   |       |      |
| 07 71 13 00-0028 |                  |    |  | KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small>  |       |      |
|                  |                  |    |  | Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners. |       |      |
|                  |                  |    |  |   |       |      |
| 07 71 13 00-0029 |                  |    |  | 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>  |       |      |
|                  | 07 71 13 00-0030 | LF |  | 10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....  | 37.53 | 2.53 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.42 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 5.44  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 2.72  |      |
|                  | 07 71 13 00-0031 | LF |  | >14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 40.04 | 2.74 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.46 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 5.83  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 2.92  |      |
|                  | 07 71 13 00-0032 | LF |  | >16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 46.86 | 2.88 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.48 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 6.61  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 3.31  |      |
|                  | 07 71 13 00-0033 | LF |  | >22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 56.11 | 3.16 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.53 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 7.72  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 3.86  |      |
|                  | 07 71 13 00-0034 | LF |  | >30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 70.09 | 3.30 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.55 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 9.21  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 4.61  |      |
|                  |                  |    |  |   |       |      |
| 07 71 13 00-0035 |                  |    |  | 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>  |       |      |
|                  | 07 71 13 00-0036 | LF |  | 10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....  | 40.86 | 2.53 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.42 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 5.77  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 2.89  |      |
|                  | 07 71 13 00-0037 | LF |  | >14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 43.58 | 2.74 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.46 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 6.19  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 3.09  |      |
|                  | 07 71 13 00-0038 | LF |  | >16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 51.07 | 2.88 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.48 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 7.03  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 3.52  |      |
|                  | 07 71 13 00-0039 | LF |  | >22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....   | 61.19 | 3.16 |
|                  |                  |    |  | <i>For &gt;1,000 LF, Deduct</i>   | -0.53 |      |
|                  |                  |    |  | <i>For Up To 25 LF, Add</i>   | 8.23  |      |
|                  |                  |    |  | <i>For &gt;25 To 100 LF, Add</i>  | 4.11  |      |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 07 71 13 00-0040        | LF  |     | >30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats  | 76.55                  | 3.30                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.55                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 9.86                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 4.93                   |                      |
| <b>07 71 13 00-0041</b> |     |     | <b>0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0028)</small>   |                        |                      |
| 07 71 13 00-0042        | LF  |     | 10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats   | 43.60                  | 2.53                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.42                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.05                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.02                   |                      |
| 07 71 13 00-0043        | LF  |     | >14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats  | 46.75                  | 2.74                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.46                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.50                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.25                   |                      |
| 07 71 13 00-0044        | LF  |     | >16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats  | 56.29                  | 2.88                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.48                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.55                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.78                   |                      |
| 07 71 13 00-0045        | LF  |     | >22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats  | 70.56                  | 3.16                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.53                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 9.16                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 4.58                   |                      |
| 07 71 13 00-0046        | LF  |     | >30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats  | 91.71                  | 3.30                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.55                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 11.38                  |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 5.69                   |                      |
| <b>07 71 13 00-0047</b> |     |     | <b>Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0008)</small>   |                        |                      |
|                         |     |     | Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners. |                        |                      |
| <b>07 71 13 00-0048</b> |     |     | <b>0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0047)</small>   |                        |                      |
| 07 71 13 00-0049        | LF  |     | 10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats   | 39.53                  | 2.53                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.42                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.64                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.82                   |                      |
| 07 71 13 00-0050        | LF  |     | >14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats  | 42.17                  | 2.74                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.46                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.05                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.02                   |                      |
| 07 71 13 00-0051        | LF  |     | >16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats  | 49.38                  | 2.88                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.48                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.86                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.43                   |                      |
| 07 71 13 00-0052        | LF  |     | >22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats  | 59.16                  | 3.16                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.53                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 8.02                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 4.01                   |                      |
| 07 71 13 00-0053        | LF  |     | >30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats  | 73.96                  | 3.30                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.55                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 9.60                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 4.80                   |                      |
| <b>07 71 13 00-0054</b> |     |     | <b>0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0047)</small>   |                        |                      |
| 07 71 13 00-0055        | LF  |     | 10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats   | 43.06                  | 2.53                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.42                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.99                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.00                   |                      |
| 07 71 13 00-0056        | LF  |     | >14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats  | 45.93                  | 2.74                 |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.46                  |                      |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.42                   |                      |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.21                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 71 13 00-0057 LF >16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 53.84                     | 2.88                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.48                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.31                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.65                      |                         |
| 07 71 13 00-0058 LF >22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 64.54                     | 3.16                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.53                     |                         |
| <i>For Up To 25 LF, Add</i>  | 8.56                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 4.28                      |                         |
| 07 71 13 00-0059 LF >30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 80.81                     | 3.30                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.55                     |                         |
| <i>For Up To 25 LF, Add</i>  | 10.29                     |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 5.14                      |                         |
| <b>07 71 13 00-0060 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0047)</small> |                           |                         |
| 07 71 13 00-0061 LF 10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats .....  | 45.96                     | 2.53                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.42                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.28                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.14                      |                         |
| 07 71 13 00-0062 LF >14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 49.28                     | 2.74                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.46                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.76                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.38                      |                         |
| 07 71 13 00-0063 LF >16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 59.38                     | 2.88                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.48                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.86                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.93                      |                         |
| 07 71 13 00-0064 LF >22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 74.48                     | 3.16                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.53                     |                         |
| <i>For Up To 25 LF, Add</i>  | 9.56                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 4.78                      |                         |
| 07 71 13 00-0065 LF >30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats ..... | 96.88                     | 3.30                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.55                     |                         |
| <i>For Up To 25 LF, Add</i>  | 11.89                     |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 5.95                      |                         |
| <b>07 71 13 00-0066 Removal And Reinstallation Of Metal Coping</b> <small>(07 71 13)</small>   |                           |                         |
| 07 71 13 00-0067 LF Removal And Reinstallation Of Metal Coping .....   | 10.67                     |                         |
| <i>For &gt;1,000 LF, Deduct</i>  | -1.07                     |                         |
| <i>For Up To 25 LF, Add</i>  | 5.34                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 2.67                      |                         |
| <b>07 71 19 Manufactured Gravel Stops and Fasciae</b> <small>(07 71)</small>   |                           |                         |
| 07 71 19 00-0001 Gravel Stop <small>(07 71 19)</small>   |                           |                         |
| 07 71 19 00-0002 Aluminum Gravel Stop <small>(07 71 19 00-0001)</small>  |                           |                         |
| 07 71 19 00-0003 Aluminum Gravel Stop <small>(07 71 19 00-0002)</small>  |                           |                         |
| 07 71 19 00-0004 KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>   |                           |                         |
| 07 71 19 00-0005 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>   |                           |                         |
| 07 71 19 00-0006 LF 4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop .....  | 38.85                     | 2.00                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.59                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.23                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.11                      |                         |
| 07 71 19 00-0007 LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop .....  | 40.18                     | 2.35                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.69                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.79                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.39                      |                         |
| 07 71 19 00-0008 LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop .....   | 41.54                     | 2.58                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.79                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.29                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.65                      |                         |
| <b>07 71 19 00-0009 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0004)</small>                                    |                           |                         |
| 07 71 19 00-0010 LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop .....  | 41.28                     | 2.00                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.59                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.47                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.24                      |                         |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|---|---------------------------|-------------------------|
| 07 71 19 00-0011        | LF  |     | >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....  | 42.71                     | 2.35                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.69                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.04                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.52                      |                         |
| 07 71 19 00-0012        | LF  |     | >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop..... | 44.21                     | 2.58                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.79                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.56                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.78                      |                         |
| <b>07 71 19 00-0013</b> |     |     | <b>0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)</b>     |                           |                         |
| 07 71 19 00-0014        | LF  |     | 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....    | 44.44                     | 2.00                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.59                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.79                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.39                      |                         |
| 07 71 19 00-0015        | LF  |     | >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....  | 45.74                     | 2.35                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.69                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.34                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.67                      |                         |
| 07 71 19 00-0016        | LF  |     | >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop..... | 47.58                     | 2.58                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.79                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.90                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.95                      |                         |
| <b>07 71 19 00-0017</b> |     |     | <b>0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)</b>     |                           |                         |
| 07 71 19 00-0018        | LF  |     | 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....    | 46.59                     | 2.00                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.59                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.00                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.50                      |                         |
| 07 71 19 00-0019        | LF  |     | >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....  | 47.97                     | 2.35                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.69                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 7.57                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.78                      |                         |
| 07 71 19 00-0020        | LF  |     | >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop..... | 49.93                     | 2.58                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.79                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 8.13                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 4.07                      |                         |
| <b>07 71 19 00-0021</b> |     |     | <b>Mill Finish, Aluminum Gravel Stop (07 71 19 00-0003)</b>                         |                           |                         |
| <b>07 71 19 00-0022</b> |     |     | <b>0.032" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)</b>           |                           |                         |
| 07 71 19 00-0023        | LF  |     | 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....          | 25.39                     | 2.00                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.59                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 4.88                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.44                      |                         |
| 07 71 19 00-0024        | LF  |     | >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....        | 27.39                     | 2.35                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.69                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.51                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.75                      |                         |
| 07 71 19 00-0025        | LF  |     | >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....       | 29.40                     | 2.58                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.79                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.08                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.04                      |                         |
| <b>07 71 19 00-0026</b> |     |     | <b>0.040" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)</b>           |                           |                         |
| 07 71 19 00-0027        | LF  |     | 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....          | 27.41                     | 2.00                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.59                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.09                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.54                      |                         |
| 07 71 19 00-0028        | LF  |     | >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....        | 29.14                     | 2.35                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.69                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.68                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.84                      |                         |
| 07 71 19 00-0029        | LF  |     | >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....       | 30.74                     | 2.58                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.79                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 6.21                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 3.11                      |                         |
| <b>07 71 19 00-0030</b> |     |     | <b>0.050" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)</b>           |                           |                         |
| 07 71 19 00-0031        | LF  |     | 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....          | 29.43                     | 2.00                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.59                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.29                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.64                      |                         |
| 07 71 19 00-0032        | LF  |     | >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....        | 31.16                     | 2.35                    |
|                         |     |     | <i>For &gt;1,000 LF, Deduct</i>   | -0.69                     |                         |
|                         |     |     | <i>For Up To 25 LF, Add</i>   | 5.88                      |                         |
|                         |     |     | <i>For &gt;25 To 100 LF, Add</i>  | 2.94                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|--|--------------------------------|-------------------------|
| 07 71 19 00-0033 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>           | 32.93<br>-0.79<br>6.43<br>3.22 | 2.58                    |
| <b>07 71 19 00-0034 0.063" Thick, Mill Finish, Aluminum Gravel Stop</b> (07 71 19 00-0021)   |                                |                         |
| 07 71 19 00-0035 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>              | 31.62<br>-0.59<br>5.51<br>2.75 | 2.00                    |
| 07 71 19 00-0036 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>            | 33.18<br>-0.69<br>6.09<br>3.04 | 2.35                    |
| 07 71 19 00-0037 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>           | 34.56<br>-0.79<br>6.60<br>3.30 | 2.58                    |
| <b>07 71 19 00-0038 Clear Anodized Finish, Aluminum Gravel Stop</b> (07 71 19 00-0003)   |                                |                         |
| <b>07 71 19 00-0039 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> (07 71 19 00-0038)   |                                |                         |
| 07 71 19 00-0040 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 46.32<br>-0.59<br>6.98<br>3.49 | 2.00                    |
| 07 71 19 00-0041 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 47.97<br>-0.69<br>7.57<br>3.78 | 2.35                    |
| 07 71 19 00-0042 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 49.44<br>-0.79<br>8.08<br>4.04 | 2.58                    |
| <b>07 71 19 00-0043 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> (07 71 19 00-0038)   |                                |                         |
| 07 71 19 00-0044 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 49.24<br>-0.59<br>7.27<br>3.63 | 2.00                    |
| 07 71 19 00-0045 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 51.01<br>-0.69<br>7.87<br>3.93 | 2.35                    |
| 07 71 19 00-0046 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 52.63<br>-0.79<br>8.40<br>4.20 | 2.58                    |
| <b>07 71 19 00-0047 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> (07 71 19 00-0038)   |                                |                         |
| 07 71 19 00-0048 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 53.04<br>-0.59<br>7.65<br>3.82 | 2.00                    |
| 07 71 19 00-0049 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 54.65<br>-0.69<br>8.23<br>4.12 | 2.35                    |
| 07 71 19 00-0050 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 56.00<br>-0.79<br>8.74<br>4.37 | 2.58                    |
| <b>07 71 19 00-0051 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> (07 71 19 00-0038)   |                                |                         |
| 07 71 19 00-0052 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 55.61<br>-0.59<br>7.91<br>3.95 | 2.00                    |
| 07 71 19 00-0053 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 57.32<br>-0.69<br>8.50<br>4.25 | 2.35                    |
| 07 71 19 00-0054 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 58.77<br>-0.79<br>9.02<br>4.51 | 2.58                    |

|              |  |
|--------------|--|
| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |   |       |      |
|------------------|---|-------|------|
| 07 71 19 00-0055 | Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0002)</small><br>Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners. |       |      |
| 07 71 19 00-0056 | KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>  |       |      |
| 07 71 19 00-0057 | 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>  |       |      |
| 07 71 19 00-0058 | LF 4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 43.82 | 2.11 |
|                  | For >1,000 LF, Deduct   | -0.65 |      |
|                  | For Up To 25 LF, Add  | 6.96  |      |
|                  | For >25 To 100 LF, Add  | 3.48  |      |
| 07 71 19 00-0059 | LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 46.60 | 2.52 |
|                  | For >1,000 LF, Deduct   | -0.76 |      |
|                  | For Up To 25 LF, Add  | 7.71  |      |
|                  | For >25 To 100 LF, Add  | 3.85  |      |
| 07 71 19 00-0060 | LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....  | 49.77 | 2.87 |
|                  | For >1,000 LF, Deduct   | -0.87 |      |
|                  | For Up To 25 LF, Add  | 8.45  |      |
|                  | For >25 To 100 LF, Add  | 4.22  |      |
| 07 71 19 00-0061 | 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>  |       |      |
| 07 71 19 00-0062 | LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 46.25 | 2.11 |
|                  | For >1,000 LF, Deduct   | -0.65 |      |
|                  | For Up To 25 LF, Add  | 7.21  |      |
|                  | For >25 To 100 LF, Add  | 3.60  |      |
| 07 71 19 00-0063 | LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 49.13 | 2.52 |
|                  | For >1,000 LF, Deduct   | -0.76 |      |
|                  | For Up To 25 LF, Add  | 7.96  |      |
|                  | For >25 To 100 LF, Add  | 3.98  |      |
| 07 71 19 00-0064 | LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....  | 52.44 | 2.87 |
|                  | For >1,000 LF, Deduct   | -0.87 |      |
|                  | For Up To 25 LF, Add  | 8.71  |      |
|                  | For >25 To 100 LF, Add  | 4.36  |      |
| 07 71 19 00-0065 | 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>  |       |      |
| 07 71 19 00-0066 | LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 49.41 | 2.11 |
|                  | For >1,000 LF, Deduct   | -0.65 |      |
|                  | For Up To 25 LF, Add  | 7.52  |      |
|                  | For >25 To 100 LF, Add  | 3.76  |      |
| 07 71 19 00-0067 | LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 52.16 | 2.52 |
|                  | For >1,000 LF, Deduct   | -0.76 |      |
|                  | For Up To 25 LF, Add  | 8.26  |      |
|                  | For >25 To 100 LF, Add  | 4.13  |      |
| 07 71 19 00-0068 | LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....  | 55.81 | 2.87 |
|                  | For >1,000 LF, Deduct   | -0.87 |      |
|                  | For Up To 25 LF, Add  | 9.05  |      |
|                  | For >25 To 100 LF, Add  | 4.52  |      |
| 07 71 19 00-0069 | 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>  |       |      |
| 07 71 19 00-0070 | LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 51.56 | 2.11 |
|                  | For >1,000 LF, Deduct   | -0.65 |      |
|                  | For Up To 25 LF, Add  | 7.74  |      |
|                  | For >25 To 100 LF, Add  | 3.87  |      |
| 07 71 19 00-0071 | LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....   | 54.39 | 2.52 |
|                  | For >1,000 LF, Deduct   | -0.76 |      |
|                  | For Up To 25 LF, Add  | 8.49  |      |
|                  | For >25 To 100 LF, Add  | 4.24  |      |
| 07 71 19 00-0072 | LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat .....  | 58.16 | 2.87 |
|                  | For >1,000 LF, Deduct   | -0.87 |      |
|                  | For Up To 25 LF, Add  | 9.28  |      |
|                  | For >25 To 100 LF, Add  | 4.64  |      |
| 07 71 19 00-0073 | Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>  |       |      |
| 07 71 19 00-0074 | 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>  |       |      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 71 19 00-0075 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                      | 32.22                     | 2.11                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.65                     |                         |
| <i>For Up To 25 LF, Add</i>  | 5.80                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 2.90                      |                         |
| 07 71 19 00-0076 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                    | 34.50                     | 2.52                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.76                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.50                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.25                      |                         |
| 07 71 19 00-0077 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                   | 37.12                     | 2.87                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.87                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.18                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.59                      |                         |
| <b>07 71 19 00-0078 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0073)</small>           |                           |                         |
| 07 71 19 00-0079 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                      | 33.90                     | 2.11                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.65                     |                         |
| <i>For Up To 25 LF, Add</i>  | 5.97                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 2.99                      |                         |
| 07 71 19 00-0080 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                    | 36.25                     | 2.52                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.76                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.67                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.34                      |                         |
| 07 71 19 00-0081 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                   | 38.97                     | 2.87                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.87                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.37                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.68                      |                         |
| <b>07 71 19 00-0082 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0073)</small>           |                           |                         |
| 07 71 19 00-0083 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                      | 36.08                     | 2.11                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.65                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.19                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.09                      |                         |
| 07 71 19 00-0084 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                    | 38.34                     | 2.52                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.76                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.88                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.44                      |                         |
| 07 71 19 00-0085 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                   | 41.16                     | 2.87                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.87                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.58                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.79                      |                         |
| <b>07 71 19 00-0086 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0073)</small>           |                           |                         |
| 07 71 19 00-0087 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                      | 37.56                     | 2.11                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.65                     |                         |
| <i>For Up To 25 LF, Add</i>  | 6.34                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.17                      |                         |
| 07 71 19 00-0088 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                    | 39.88                     | 2.52                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.76                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.04                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.52                      |                         |
| 07 71 19 00-0089 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....                   | 42.78                     | 2.87                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.87                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.75                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.87                      |                         |
| <b>07 71 19 00-0090 Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0055)</small>               |                           |                         |
| <b>07 71 19 00-0091 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0090)</small> |                           |                         |
| 07 71 19 00-0092 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....            | 51.29                     | 2.11                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.65                     |                         |
| <i>For Up To 25 LF, Add</i>  | 7.71                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 3.85                      |                         |
| 07 71 19 00-0093 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....          | 54.40                     | 2.52                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.76                     |                         |
| <i>For Up To 25 LF, Add</i>  | 8.49                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 4.24                      |                         |
| 07 71 19 00-0094 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....         | 57.67                     | 2.87                    |
| <i>For &gt;1,000 LF, Deduct</i>  | -0.87                     |                         |
| <i>For Up To 25 LF, Add</i>  | 9.24                      |                         |
| <i>For &gt;25 To 100 LF, Add</i>   | 4.62                      |                         |





| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 71 19 00-0095 |     |     | <b>0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0090)     |                        |                      |
| 07 71 19 00-0096 | LF  |     | 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....    | 54.20                  | 2.11                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.65                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 8.00                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.00                   |                      |
| 07 71 19 00-0097 | LF  |     | >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....  | 57.44                  | 2.52                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.76                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 8.79                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.40                   |                      |
| 07 71 19 00-0098 | LF  |     | >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat..... | 60.86                  | 2.87                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.87                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 9.55                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.78                   |                      |
| 07 71 19 00-0099 |     |     | <b>0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0090)     |                        |                      |
| 07 71 19 00-0100 | LF  |     | 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....    | 58.00                  | 2.11                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.65                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 8.38                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.19                   |                      |
| 07 71 19 00-0101 | LF  |     | >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....  | 61.07                  | 2.52                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.76                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 9.16                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.58                   |                      |
| 07 71 19 00-0102 | LF  |     | >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat..... | 64.22                  | 2.87                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.87                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 9.89                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.95                   |                      |
| 07 71 19 00-0103 |     |     | <b>0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0090)     |                        |                      |
| 07 71 19 00-0104 | LF  |     | 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....    | 60.58                  | 2.11                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.65                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 8.64                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.32                   |                      |
| 07 71 19 00-0105 | LF  |     | >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....  | 63.74                  | 2.52                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.76                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 9.42                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.71                   |                      |
| 07 71 19 00-0106 | LF  |     | >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat..... | 67.00                  | 2.87                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.87                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 10.17                  |                      |
|                  |     |     | For >25 To 100 LF, Add   | 5.08                   |                      |
| 07 71 19 00-0107 |     |     | <b>Stainless Steel Gravel Stop</b> (07 71 19 00-0001)  |                        |                      |
| 07 71 19 00-0108 |     |     | <b>Stainless Steel Gravel Stop</b> (07 71 19 00-0107)  |                        |                      |
| 07 71 19 00-0109 |     |     | <b>26 Gauge, Stainless Steel Gravel Stop</b> (07 71 19 00-0108)  |                        |                      |
| 07 71 19 00-0110 | LF  |     | 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....   | 37.25                  | 2.00                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.59                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 6.07                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.03                   |                      |
| 07 71 19 00-0111 | LF  |     | >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....   | 48.93                  | 2.35                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.69                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 7.66                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.83                   |                      |
| 07 71 19 00-0112 | LF  |     | >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....  | 72.52                  | 2.58                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.79                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 10.39                  |                      |
|                  |     |     | For >25 To 100 LF, Add   | 5.20                   |                      |
| 07 71 19 00-0113 |     |     | <b>24 Gauge, Stainless Steel Gravel Stop</b> (07 71 19 00-0108)  |                        |                      |
| 07 71 19 00-0114 | LF  |     | 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....   | 46.35                  | 2.00                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.59                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 6.98                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 3.49                   |                      |
| 07 71 19 00-0115 | LF  |     | >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....   | 61.07                  | 2.35                 |
|                  |     |     | For >1,000 LF, Deduct  | -0.69                  |                      |
|                  |     |     | For Up To 25 LF, Add   | 8.88                   |                      |
|                  |     |     | For >25 To 100 LF, Add   | 4.44                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST        | DEMOLITION<br>UNIT COST |
|---|----------------------------------|-------------------------|
| 07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>                              | 90.73<br>-0.79<br>12.21<br>6.11  | 2.58                    |
| <b>07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop</b> (07 71 19 00-0108)  |                                  |                         |
| 07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>                                  | 56.03<br>-0.59<br>7.95<br>3.97   | 2.00                    |
| 07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>                               | 73.97<br>-0.69<br>10.17<br>5.08  | 2.35                    |
| 07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>                              | 110.08<br>-0.79<br>14.15<br>7.07 | 2.58                    |
| <b>07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0107)<br>Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.                   |                                  |                         |
| <b>07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0121)   |                                  |                         |
| 07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 44.00<br>-0.65<br>6.98<br>3.49   | 2.11                    |
| 07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 57.69<br>-0.76<br>8.82<br>4.41   | 2.52                    |
| 07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 83.78<br>-0.87<br>11.85<br>5.92  | 2.87                    |
| <b>07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0121)   |                                  |                         |
| 07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 53.11<br>-0.65<br>7.89<br>3.95   | 2.11                    |
| 07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>   | 69.83<br>-0.76<br>10.03<br>5.02  | 2.52                    |
| 07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 101.98<br>-0.87<br>13.67<br>6.83 | 2.87                    |
| <b>07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0121)   |                                  |                         |
| 07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>    | 62.78<br>-0.65<br>8.86<br>4.43   | 2.11                    |
| 07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>   | 82.73<br>-0.76<br>11.32<br>5.66  | 2.52                    |
| 07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 121.33<br>-0.87<br>15.60<br>7.80 | 2.87                    |
| <b>07 71 19 00-0134 Galvanized Steel Gravel Stop</b> (07 71 19 00-0001)   |                                  |                         |
| <b>07 71 19 00-0135 Galvanized Steel Gravel Stop</b> (07 71 19 00-0134)   |                                  |                         |
| <b>07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop</b> (07 71 19 00-0135)  |                                  |                         |
| <b>07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop</b> (07 71 19 00-0136)  |                                  |                         |
| 07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop .....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>             | 35.65<br>-0.59<br>5.91<br>2.95   | 2.00                    |
| 07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>            | 36.92<br>-0.69<br>6.46<br>3.23   | 2.35                    |

|              |  |
|--------------|--|
| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....                                 | 38.44                     | 2.58                    |
| For >1,000 LF, Deduct   | -0.79                     |                         |
| For Up To 25 LF, Add  | 6.98                      |                         |
| For >25 To 100 LF, Add  | 3.49                      |                         |
| <b>07 71 19 00-0141 Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0134)</b>  |                           |                         |
| Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.  |                           |                         |
| <b>07 71 19 00-0142 KYNAR 500® Finish, Galvanized Steel Gravel Stop System With</b>   |                           |                         |
| <b>Continuous Cleat (07 71 19 00-0141)</b>  |                           |                         |
| <b>07 71 19 00-0143 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System</b>  |                           |                         |
| <b>With Continuous Cleat (07 71 19 00-0142)</b>   |                           |                         |
| 07 71 19 00-0144 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous<br>Cleat.....    | 40.76                     | 2.11                    |
| For >1,000 LF, Deduct   | -0.65                     |                         |
| For Up To 25 LF, Add  | 6.66                      |                         |
| For >25 To 100 LF, Add  | 3.33                      |                         |
| 07 71 19 00-0145 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous<br>Cleat.....  | 43.53                     | 2.52                    |
| For >1,000 LF, Deduct   | -0.76                     |                         |
| For Up To 25 LF, Add  | 7.40                      |                         |
| For >25 To 100 LF, Add  | 3.70                      |                         |
| 07 71 19 00-0146 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With<br>Continuous Cleat..... | 46.91                     | 2.87                    |
| For >1,000 LF, Deduct   | -0.87                     |                         |
| For Up To 25 LF, Add  | 8.16                      |                         |
| For >25 To 100 LF, Add  | 4.08                      |                         |
| <b>07 71 19 00-0147 Copper Gravel Stop (07 71 19 00-0001)</b>   |                           |                         |
| <b>07 71 19 00-0148 Copper Gravel Stop (07 71 19 00-0147)</b>   |                           |                         |
| <b>07 71 19 00-0149 20 Ounce, Copper Gravel Stop (07 71 19 00-0148)</b>   |                           |                         |
| 07 71 19 00-0150 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop.....   | 59.57                     | 2.00                    |
| For >1,000 LF, Deduct   | -0.59                     |                         |
| For Up To 25 LF, Add  | 8.30                      |                         |
| For >25 To 100 LF, Add  | 4.15                      |                         |
| 07 71 19 00-0151 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop.....   | 68.22                     | 2.35                    |
| For >1,000 LF, Deduct   | -0.69                     |                         |
| For Up To 25 LF, Add  | 9.59                      |                         |
| For >25 To 100 LF, Add  | 4.80                      |                         |
| 07 71 19 00-0152 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop.....  | 78.80                     | 2.58                    |
| For >1,000 LF, Deduct   | -0.79                     |                         |
| For Up To 25 LF, Add  | 11.02                     |                         |
| For >25 To 100 LF, Add  | 5.51                      |                         |
| <b>07 71 19 00-0153 16 Ounce, Copper Gravel Stop (07 71 19 00-0148)</b>   |                           |                         |
| 07 71 19 00-0154 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop.....   | 72.31                     | 2.00                    |
| For >1,000 LF, Deduct   | -0.59                     |                         |
| For Up To 25 LF, Add  | 9.58                      |                         |
| For >25 To 100 LF, Add  | 4.79                      |                         |
| 07 71 19 00-0155 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop.....   | 83.79                     | 2.35                    |
| For >1,000 LF, Deduct   | -0.69                     |                         |
| For Up To 25 LF, Add  | 11.15                     |                         |
| For >25 To 100 LF, Add  | 5.57                      |                         |
| 07 71 19 00-0156 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop.....  | 95.79                     | 2.58                    |
| For >1,000 LF, Deduct   | -0.79                     |                         |
| For Up To 25 LF, Add  | 12.72                     |                         |
| For >25 To 100 LF, Add  | 6.36                      |                         |
| <b>07 71 19 00-0157 Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0147)</b>  |                           |                         |
| Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.  |                           |                         |
| <b>07 71 19 00-0158 20 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)</b>  |                           |                         |
| 07 71 19 00-0159 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat.....                                    | 62.00                     | 2.11                    |
| For >1,000 LF, Deduct   | -0.65                     |                         |
| For Up To 25 LF, Add  | 8.78                      |                         |
| For >25 To 100 LF, Add  | 4.39                      |                         |
| 07 71 19 00-0160 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat.....                                  | 71.33                     | 2.52                    |
| For >1,000 LF, Deduct   | -0.76                     |                         |
| For Up To 25 LF, Add  | 10.18                     |                         |
| For >25 To 100 LF, Add  | 5.09                      |                         |
| 07 71 19 00-0161 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat.....                                 | 82.74                     | 2.87                    |
| For >1,000 LF, Deduct   | -0.87                     |                         |
| For Up To 25 LF, Add  | 11.74                     |                         |
| For >25 To 100 LF, Add  | 5.87                      |                         |
| <b>07 71 19 00-0162 16 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)</b>  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST       | DEMOLITION<br>UNIT COST |
|---|---------------------------------|-------------------------|
| 07 71 19 00-0163 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 74.74<br>-0.65<br>10.05<br>5.03 | 2.11                    |
| 07 71 19 00-0164 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>                                      | 86.90<br>-0.76<br>11.74<br>5.87 | 2.52                    |
| 07 71 19 00-0165 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>                                     | 99.73<br>-0.87<br>13.44<br>6.72 | 2.87                    |
| <b>07 71 19 00-0166 Fascia</b> <small>(07 71 19)</small>  |                                 |                         |
| <b>07 71 19 00-0167 Snap-On Cover Fascia</b> <small>(07 71 19 00-0166)</small><br>Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.  |                                 |                         |
| <b>07 71 19 00-0168 Galvanized Steel Snap-On Cover Fascia</b> <small>(07 71 19 00-0167)</small>   |                                 |                         |
| <b>07 71 19 00-0169 KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia</b> <small>(07 71 19 00-0168)</small>  |                                 |                         |
| <b>07 71 19 00-0170 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia</b> <small>(07 71 19 00-0169)</small>  |                                 |                         |
| 07 71 19 00-0171 LF 3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>  | 43.56<br>-0.59<br>6.70<br>3.35  | 2.93                    |
| 07 71 19 00-0172 LF >5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 48.99<br>-0.61<br>7.34<br>3.67  | 3.05                    |
| 07 71 19 00-0173 LF >7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i> | 52.48<br>-0.63<br>7.78<br>3.89  | 3.16                    |
| <b>07 71 19 00-0174 Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems</b> <small>(07 71 19 00-0169)</small>  |                                 |                         |
| <b>07 71 19 00-0175 Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems</b> <small>(07 71 19 00-0174)</small>   |                                 |                         |
| 07 71 19 00-0176 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....   | 302.78                          | 4.11                    |
| 07 71 19 00-0177 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....  | 323.39                          | 4.11                    |
| 07 71 19 00-0178 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....  | 336.33                          | 4.11                    |
| <b>07 71 19 00-0179 Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems</b> <small>(07 71 19 00-0174)</small>   |                                 |                         |
| 07 71 19 00-0180 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....   | 246.66                          | 4.11                    |
| 07 71 19 00-0181 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....  | 257.06                          | 4.11                    |
| 07 71 19 00-0182 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....  | 263.40                          | 4.11                    |
| <b>07 71 19 00-0183 Aluminum Snap-On Cover Fascia</b> <small>(07 71 19 00-0167)</small>   |                                 |                         |
| <b>07 71 19 00-0184 KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat</b> <small>(07 71 19 00-0183)</small>   |                                 |                         |
| <b>07 71 19 00-0185 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat</b> <small>(07 71 19 00-0184)</small>   |                                 |                         |
| 07 71 19 00-0186 LF 3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>      | 24.07<br>-0.59<br>4.75<br>2.38  | 2.93                    |
| 07 71 19 00-0187 LF >5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>     | 27.17<br>-0.61<br>5.15<br>2.58  | 3.05                    |
| 07 71 19 00-0188 LF >7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....<br><i>For &gt;1,000 LF, Deduct</i><br><i>For Up To 25 LF, Add</i><br><i>For &gt;25 To 100 LF, Add</i>     | 28.83<br>-0.63<br>5.42<br>2.71  | 3.16                    |

|              |  |
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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |        |      |
|------------------|----|--|--------|------|
| 07 71 19 00-0189 |    | <b>0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat</b> <small>(07 71 19 00-0184)</small>     |        |      |
| 07 71 19 00-0190 | LF | 3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....                   | 25.26  | 2.93 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.59  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 4.87   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.44   |      |
| 07 71 19 00-0191 | LF | >5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....                  | 28.70  | 3.05 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.61  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.31   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.65   |      |
| 07 71 19 00-0192 | LF | >7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....                  | 30.55  | 3.16 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.63  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.59   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.80   |      |
| 07 71 19 00-0193 |    | <b>Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems</b> <small>(07 71 19 00-0184)</small>                        |        |      |
| 07 71 19 00-0194 |    | <b>Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems</b> <small>(07 71 19 00-0193)</small>                       |        |      |
| 07 71 19 00-0195 | EA | Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....                                      | 153.08 | 4.11 |
| 07 71 19 00-0196 | EA | Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....                                     | 165.95 | 4.11 |
| 07 71 19 00-0197 | EA | Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....                                     | 171.58 | 4.11 |
| 07 71 19 00-0198 |    | <b>Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems</b> <small>(07 71 19 00-0193)</small>           |        |      |
| 07 71 19 00-0199 | EA | Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....                          | 121.36 | 4.11 |
| 07 71 19 00-0200 | EA | Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....                         | 127.77 | 4.11 |
| 07 71 19 00-0201 | EA | Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....                         | 130.58 | 4.11 |
| 07 71 19 00-0202 |    | <b>Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat</b> <small>(07 71 19 00-0183)</small>               |        |      |
| 07 71 19 00-0203 |    | <b>0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat</b> <small>(07 71 19 00-0202)</small> |        |      |
| 07 71 19 00-0204 | LF | 3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....               | 27.71  | 2.93 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.59  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.12   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.56   |      |
| 07 71 19 00-0205 | LF | >5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....              | 31.38  | 3.05 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.61  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.57   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.79   |      |
| 07 71 19 00-0206 | LF | >7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....              | 33.33  | 3.16 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.63  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.87   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.93   |      |
| 07 71 19 00-0207 |    | <b>0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat</b> <small>(07 71 19 00-0202)</small> |        |      |
| 07 71 19 00-0208 | LF | 3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....               | 29.14  | 2.93 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.59  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.26   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.63   |      |
| 07 71 19 00-0209 | LF | >5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....              | 33.22  | 3.05 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.61  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 5.76   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 2.88   |      |
| 07 71 19 00-0210 | LF | >7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....              | 35.39  | 3.16 |
|                  |    | <i>For &gt;1,000 LF, Deduct</i> .....  | -0.63  |      |
|                  |    | <i>For Up To 25 LF, Add</i> .....  | 6.08   |      |
|                  |    | <i>For &gt;25 To 100 LF, Add</i> .....   | 3.04   |      |



| MINOR   | TOTAL DIRECT | DEMOLITION | DESCRIPTION | UNIT COST | UNIT COST |
|---------|--------------|------------|-------------|-----------|-----------|
| CSI UOM |              |            |             |           |           |

|                  |    |  |   |        |      |
|------------------|----|--|---|--------|------|
| 07 71 19 00-0211 |    |  | Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0202)</small>  |        |      |
| 07 71 19 00-0212 |    |  | Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0211)</small> |        |      |
| 07 71 19 00-0213 | EA |  | Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....         | 189.31 | 4.11 |
| 07 71 19 00-0214 | EA |  | Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....        | 205.39 | 4.11 |
| 07 71 19 00-0215 | EA |  | Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....        | 212.42 | 4.11 |

|                  |    |  |   |        |      |
|------------------|----|--|---|--------|------|
| 07 71 19 00-0216 |    |  | Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0211)</small> |        |      |
| 07 71 19 00-0217 | EA |  | Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....         | 149.65 | 4.11 |
| 07 71 19 00-0218 | EA |  | Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....        | 157.67 | 4.11 |
| 07 71 19 00-0219 | EA |  | Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....        | 161.17 | 4.11 |

**07 71 23 Manufactured Gutters and Downspouts** (07 71)

Note: Includes all necessary support straps.

|                  |    |  |   |       |      |
|------------------|----|--|---|-------|------|
| 07 71 23 00-0001 |    |  | Aluminum Gutters And Downspouts <small>(07 71 23)</small>                                     |       |      |
| 07 71 23 00-0002 |    |  | Aluminum Gutters <small>(07 71 23 00-0001)</small>  |       |      |
|                  |    |  | Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts. |       |      |
| 07 71 23 00-0003 |    |  | K-Style Aluminum Gutters <small>(07 71 23 00-0002)</small>                                    |       |      |
| 07 71 23 00-0004 | LF |  | 5", 0.027" Thick, K-Style Aluminum Gutter .....   | 12.39 | 5.68 |
|                  |    |  | For Up To 100', Add   | 2.64  |      |
|                  |    |  | For >100' To 250', Add  | 1.09  |      |
|                  |    |  | For >1,000', Deduct   | -0.94 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 1.36  |      |
| 07 71 23 00-0005 | LF |  | 6", 0.027" Thick, K-Style Aluminum Gutter .....   | 13.69 | 5.99 |
|                  |    |  | For Up To 100', Add   | 2.84  |      |
|                  |    |  | For >100' To 250', Add  | 1.18  |      |
|                  |    |  | For >1,000', Deduct   | -0.98 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 1.74  |      |
| 07 71 23 00-0006 | LF |  | 5", 0.032" Thick, K-Style Aluminum Gutter .....   | 12.83 | 5.68 |
|                  |    |  | For Up To 100', Add   | 2.69  |      |
|                  |    |  | For >100' To 250', Add  | 1.11  |      |
|                  |    |  | For >1,000', Deduct   | -0.94 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 1.56  |      |
| 07 71 23 00-0007 | LF |  | 6", 0.032" Thick, K-Style Aluminum Gutter .....   | 14.25 | 5.99 |
|                  |    |  | For Up To 100', Add   | 2.90  |      |
|                  |    |  | For >100' To 250', Add  | 1.20  |      |
|                  |    |  | For >1,000', Deduct   | -0.98 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 1.99  |      |
| 07 71 23 00-0008 | LF |  | 7", 0.032" Thick, K-Style Aluminum Gutter .....   | 24.86 | 6.29 |
|                  |    |  | For Up To 100', Add   | 4.07  |      |
|                  |    |  | For >100' To 250', Add  | 1.77  |      |
|                  |    |  | For >1,000', Deduct   | -1.06 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 6.42  |      |
| 07 71 23 00-0009 | LF |  | 8", 0.032" Thick, K-Style Aluminum Gutter .....   | 27.27 | 7.07 |
|                  |    |  | For Up To 100', Add   | 4.48  |      |
|                  |    |  | For >100' To 250', Add  | 1.95  |      |
|                  |    |  | For >1,000', Deduct   | -1.17 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 7.02  |      |
| 07 71 23 00-0010 | LF |  | 8", 0.040" Thick, K-Style Aluminum Gutter .....   | 30.28 | 7.07 |
|                  |    |  | For Up To 100', Add   | 4.78  |      |
|                  |    |  | For >100' To 250', Add  | 2.10  |      |
|                  |    |  | For >1,000', Deduct   | -1.17 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 8.37  |      |
| 07 71 23 00-0011 |    |  | Half Round Aluminum Gutters <small>(07 71 23 00-0002)</small>                                 |       |      |
| 07 71 23 00-0012 | LF |  | 5", 0.027" Thick, Half Round Aluminum Gutter .....  | 21.11 | 5.68 |
|                  |    |  | For Up To 100', Add   | 3.52  |      |
|                  |    |  | For >100' To 250', Add  | 1.52  |      |
|                  |    |  | For >1,000', Deduct   | -0.94 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 5.28  |      |
| 07 71 23 00-0013 | LF |  | 6", 0.032" Thick, Half Round Aluminum Gutter .....  | 25.12 | 5.99 |
|                  |    |  | For Up To 100', Add   | 3.99  |      |
|                  |    |  | For >100' To 250', Add  | 1.75  |      |
|                  |    |  | For >1,000', Deduct   | -0.98 |      |
|                  |    |  | For Kynar 500® Finish, Add  | 6.88  |      |
| 07 71 23 00-0014 |    |  | Box Style Aluminum Gutters <small>(07 71 23 00-0002)</small>                                  |       |      |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 71 23 00-0015 LF 6", 0.027" Thick, Box Style Aluminum Gutter.....            | 22.57                     | 7.07                    |
| For Up To 100', Add   | 4.01                      |                         |
| For >100' To 250', Add  | 1.71                      |                         |
| For >1,000', Deduct   | -1.17                     |                         |
| For Kynar 500® Finish, Add  | 4.91                      |                         |
| 07 71 23 00-0016 LF 6", 0.032" Thick, Box Style Aluminum Gutter.....            | 22.62                     | 7.07                    |
| For Up To 100', Add   | 4.01                      |                         |
| For >100' To 250', Add  | 1.71                      |                         |
| For >1,000', Deduct   | -1.17                     |                         |
| For Kynar 500® Finish, Add  | 4.93                      |                         |
| 07 71 23 00-0017 LF 7", 0.032" Thick, Box Style Aluminum Gutter.....            | 26.09                     | 7.53                    |
| For Up To 100', Add   | 4.48                      |                         |
| For >100' To 250', Add  | 1.93                      |                         |
| For >1,000', Deduct   | -1.24                     |                         |
| For Kynar 500® Finish, Add  | 6.14                      |                         |
| 07 71 23 00-0018 LF 8", 0.032" Thick, Box Style Aluminum Gutter.....            | 29.28                     | 7.99                    |
| For Up To 100', Add   | 4.91                      |                         |
| For >100' To 250', Add  | 2.12                      |                         |
| For >1,000', Deduct   | -1.32                     |                         |
| For Kynar 500® Finish, Add  | 7.23                      |                         |
| <b>07 71 23 00-0019 Aluminum Gutter End Caps (07 71 23 00-0001)</b>             |                           |                         |
| <b>07 71 23 00-0020 K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)</b>    |                           |                         |
| 07 71 23 00-0021 EA 5", K-Style Aluminum Gutter End Cap.....                    | 4.13                      |                         |
| For Kynar 500® Finish, Add  | 0.47                      |                         |
| 07 71 23 00-0022 EA 6", K-Style Aluminum Gutter End Cap.....                    | 4.98                      |                         |
| For Kynar 500® Finish, Add  | 0.86                      |                         |
| 07 71 23 00-0023 EA 7", K-Style Aluminum Gutter End Cap.....                    | 10.18                     |                         |
| For Kynar 500® Finish, Add  | 3.20                      |                         |
| 07 71 23 00-0024 EA 8", K-Style Aluminum Gutter End Cap.....                    | 11.77                     |                         |
| For Kynar 500® Finish, Add  | 3.91                      |                         |
| <b>07 71 23 00-0025 Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)</b> |                           |                         |
| 07 71 23 00-0026 EA 5", Half Round Aluminum Gutter End Cap.....                 | 6.31                      |                         |
| For Kynar 500® Finish, Add  | 1.45                      |                         |
| 07 71 23 00-0027 EA 6", Half Round Aluminum Gutter End Cap.....                 | 9.47                      |                         |
| For Kynar 500® Finish, Add  | 2.88                      |                         |
| <b>07 71 23 00-0028 Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)</b>  |                           |                         |
| 07 71 23 00-0029 EA 6", Box Style Aluminum Gutter End Cap.....                  | 11.05                     |                         |
| For Kynar 500® Finish, Add  | 3.59                      |                         |
| 07 71 23 00-0030 EA 7", Box Style Aluminum Gutter End Cap.....                  | 11.96                     |                         |
| For Kynar 500® Finish, Add  | 4.00                      |                         |
| 07 71 23 00-0031 EA 8", Box Style Aluminum Gutter End Cap.....                  | 13.95                     |                         |
| For Kynar 500® Finish, Add  | 4.89                      |                         |
| <b>07 71 23 00-0032 Aluminum Gutter Miters (07 71 23 00-0001)</b>               |                           |                         |
| Note: Inside or outside miters.   |                           |                         |
| <b>07 71 23 00-0033 K-Style, Aluminum Gutter Miters (07 71 23 00-0032)</b>      |                           |                         |
| 07 71 23 00-0034 EA 5", K-Style Aluminum Gutter Miter.....                      | 23.82                     |                         |
| For Kynar 500® Finish, Add  | 3.74                      |                         |
| 07 71 23 00-0035 EA 6", K-Style Aluminum Gutter Miter.....                      | 30.97                     |                         |
| For Kynar 500® Finish, Add  | 6.47                      |                         |
| 07 71 23 00-0036 EA 7", K-Style Aluminum Gutter Miter.....                      | 86.88                     |                         |
| For Kynar 500® Finish, Add  | 31.15                     |                         |
| 07 71 23 00-0037 EA 8", K-Style Aluminum Gutter Miter.....                      | 94.25                     |                         |
| For Kynar 500® Finish, Add  | 33.91                     |                         |
| <b>07 71 23 00-0038 Half Round, Aluminum Gutter Miters (07 71 23 00-0032)</b>   |                           |                         |
| 07 71 23 00-0039 EA 5", Half Round Aluminum Gutter Miter.....                   | 39.07                     |                         |
| For Kynar 500® Finish, Add  | 10.60                     |                         |
| 07 71 23 00-0040 EA 6", Half Round Aluminum Gutter Miter.....                   | 59.98                     |                         |
| For Kynar 500® Finish, Add  | 19.53                     |                         |
| <b>07 71 23 00-0041 Box Style, Aluminum Gutter Miters (07 71 23 00-0032)</b>    |                           |                         |
| 07 71 23 00-0042 EA 6", Box Style Aluminum Gutter Miter.....                    | 70.83                     |                         |
| For Kynar 500® Finish, Add  | 24.41                     |                         |
| 07 71 23 00-0043 EA 7", Box Style Aluminum Gutter Miter.....                    | 104.19                    |                         |
| For Kynar 500® Finish, Add  | 38.94                     |                         |
| 07 71 23 00-0044 EA 8", Box Style Aluminum Gutter Miter.....                    | 113.09                    |                         |
| For Kynar 500® Finish, Add  | 42.39                     |                         |
| <b>07 71 23 00-0045 Aluminum Gutter Wire Strainers (07 71 23 00-0001)</b>       |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 71 23 00-0046 EA 3" Diameter, Round Aluminum Wire Strainer.....                            | 17.20                     | 3.84                    |
| <i>For Kynar 500® Finish, Add</i>   | 4.14                      |                         |
| <i>For 0.024" Thick, Add</i>  | 1.29                      |                         |
| <i>For 0.027" Thick, Add</i>  | 2.67                      |                         |
| <i>For 0.031" Thick, Add</i>  | 3.86                      |                         |
| 07 71 23 00-0047 EA 4" Diameter, Round Aluminum Wire Strainer.....                            | 24.95                     | 3.84                    |
| <i>For Kynar 500® Finish, Add</i>   | 7.63                      |                         |
| <i>For 0.024" Thick, Add</i>  | 2.37                      |                         |
| <i>For 0.027" Thick, Add</i>  | 4.92                      |                         |
| <i>For 0.031" Thick, Add</i>  | 7.12                      |                         |
| <b>07 71 23 00-0048 Aluminum Downspouts</b> (07 71 23 00-0001)                                |                           |                         |
| Note: Includes elbows, hangers and fasteners.   |                           |                         |
| <b>07 71 23 00-0049 Round Aluminum Downspouts</b> (07 71 23 00-0048)                          |                           |                         |
| 07 71 23 00-0050 LF 3" Diameter, 0.019" Thick, Round Aluminum Downspout.....                  | 8.13                      | 3.69                    |
| <i>For Up To 100', Add</i>  | 1.41                      |                         |
| <i>For &gt;100 To 250', Add</i>   | 0.61                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.40                     |                         |
| <i>For Kynar 500® Finish, Add</i>   | 1.86                      |                         |
| <i>For 0.024" Thick, Add</i>  | 0.58                      |                         |
| <i>For 0.027" Thick, Add</i>  | 1.20                      |                         |
| <i>For 0.031" Thick, Add</i>  | 1.74                      |                         |
| 07 71 23 00-0051 LF 4" Diameter, 0.019" Thick, Round Aluminum Downspout.....                  | 9.10                      | 3.69                    |
| <i>For Up To 100', Add</i>  | 1.51                      |                         |
| <i>For &gt;100 To 250', Add</i>   | 0.65                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.40                     |                         |
| <i>For Kynar 500® Finish, Add</i>   | 2.30                      |                         |
| <i>For 0.024" Thick, Add</i>  | 0.72                      |                         |
| <i>For 0.027" Thick, Add</i>  | 1.48                      |                         |
| <i>For 0.031" Thick, Add</i>  | 2.15                      |                         |
| <b>07 71 23 00-0052 Rectangular Aluminum Downspouts</b> (07 71 23 00-0048)                    |                           |                         |
| 07 71 23 00-0053 LF 2" x 3", 0.019" Thick, Rectangular Aluminum Downspout.....                | 6.11                      | 3.69                    |
| <i>For Up To 100', Add</i>  | 1.21                      |                         |
| <i>For &gt;100 To 250', Add</i>   | 0.51                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.40                     |                         |
| <i>For Kynar 500® Finish, Add</i>   | 0.95                      |                         |
| <i>For 0.024" Thick, Add</i>  | 0.30                      |                         |
| <i>For 0.027" Thick, Add</i>  | 0.61                      |                         |
| <i>For 0.031" Thick, Add</i>  | 0.89                      |                         |
| 07 71 23 00-0054 LF 3" x 4", 0.019" Thick, Rectangular Aluminum Downspout.....                | 7.35                      | 3.69                    |
| <i>For Up To 100', Add</i>  | 1.33                      |                         |
| <i>For &gt;100 To 250', Add</i>   | 0.57                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.40                     |                         |
| <i>For Kynar 500® Finish, Add</i>   | 1.51                      |                         |
| <i>For 0.024" Thick, Add</i>  | 0.47                      |                         |
| <i>For 0.027" Thick, Add</i>  | 0.97                      |                         |
| <i>For 0.031" Thick, Add</i>  | 1.41                      |                         |
| 07 71 23 00-0055 LF 4" x 5", 0.019" Thick, Rectangular Aluminum Downspout.....                | 12.55                     | 3.69                    |
| <i>For Up To 100', Add</i>  | 1.85                      |                         |
| <i>For &gt;100 To 250', Add</i>   | 0.83                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.40                     |                         |
| <i>For Kynar 500® Finish, Add</i>   | 3.85                      |                         |
| <i>For 0.024" Thick, Add</i>  | 1.20                      |                         |
| <i>For 0.027" Thick, Add</i>  | 2.48                      |                         |
| <i>For 0.031" Thick, Add</i>  | 3.60                      |                         |
| <b>07 71 23 00-0056 Aluminum Devices</b> (07 71 23 00-0001)                                   |                           |                         |
| 07 71 23 00-0057 EA Thru-Wall Aluminum Scupper Outlet.....                                    | 257.74                    | 26.37                   |
| <i>For Kynar 500® Finish, Add</i>   | 76.41                     |                         |
| 07 71 23 00-0058 EA Aluminum Leader/Conductor Head.....                                       | 238.92                    | 29.31                   |
| <i>For Kynar 500® Finish, Add</i>   | 81.14                     |                         |
| <b>07 71 23 00-0059 Copper Gutters And Downspouts</b> (07 71 23)                              |                           |                         |
| <b>07 71 23 00-0060 Copper Gutters</b> (07 71 23 00-0059)                                     |                           |                         |
| Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts. |                           |                         |
| <b>07 71 23 00-0061 K-Style Copper Gutters</b> (07 71 23 00-0060)                             |                           |                         |
| 07 71 23 00-0062 LF 4", 16 Ounce, K-Style Copper Gutter.....                                  | 20.58                     | 5.38                    |
| <i>For Up To 100', Add</i>  | 3.39                      |                         |
| <i>For &gt;100' To 250', Add</i>  | 1.47                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.89                     |                         |
| 07 71 23 00-0063 LF 5", 16 Ounce, K-Style Copper Gutter.....                                  | 28.32                     | 5.68                    |
| <i>For Up To 100', Add</i>  | 4.24                      |                         |
| <i>For &gt;100' To 250', Add</i>  | 1.88                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.94                     |                         |
| 07 71 23 00-0064 LF 6", 16 Ounce, K-Style Copper Gutter.....                                  | 33.44                     | 5.99                    |
| <i>For Up To 100', Add</i>  | 4.82                      |                         |
| <i>For &gt;100' To 250', Add</i>  | 2.16                      |                         |
| <i>For &gt;1,000', Deduct</i>   | -0.98                     |                         |



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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 07 71 23 00-0065        | LF  | 5"  | 20 Ounce, K-Style Copper Gutter.....                | 35.14                  | 5.68                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.92                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.23                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -0.94                  |                      |
| 07 71 23 00-0066        | LF  | 6"  | 20 Ounce, K-Style Copper Gutter.....                | 43.09                  | 5.99                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 5.78                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.65                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -0.98                  |                      |
| 07 71 23 00-0067        | LF  | 7"  | 20 Ounce, K-Style Copper Gutter.....                | 50.06                  | 6.29                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 6.59                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 3.03                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.06                  |                      |
| 07 71 23 00-0068        | LF  | 8"  | 20 Ounce, K-Style Copper Gutter.....                | 55.63                  | 7.07                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 7.31                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 3.37                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.17                  |                      |
| <b>07 71 23 00-0069</b> |     |     | <b>Half Round Copper Gutters</b> (07 71 23 00-0069) |                        |                      |
| 07 71 23 00-0070        | LF  | 5"  | 16 Ounce, Half Round Copper Gutter.....             | 24.78                  | 5.68                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 3.88                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 1.71                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -0.94                  |                      |
| 07 71 23 00-0071        | LF  | 6"  | 16 Ounce, Half Round Copper Gutter.....             | 30.80                  | 5.99                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.55                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.03                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -0.98                  |                      |
| 07 71 23 00-0072        | LF  | 7"  | 16 Ounce, Half Round Copper Gutter.....             | 50.07                  | 6.29                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 6.60                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 3.03                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.06                  |                      |
| 07 71 23 00-0073        | LF  | 5"  | 20 Ounce, Half Round Copper Gutter.....             | 28.50                  | 5.68                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.26                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 1.89                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -0.94                  |                      |
| 07 71 23 00-0074        | LF  | 6"  | 20 Ounce, Half Round Copper Gutter.....             | 34.75                  | 5.99                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.95                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.23                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -0.98                  |                      |
| 07 71 23 00-0075        | LF  | 7"  | 20 Ounce, Half Round Copper Gutter.....             | 52.48                  | 6.29                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 6.84                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 3.15                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.06                  |                      |
| 07 71 23 00-0076        | LF  | 8"  | 20 Ounce, Half Round Copper Gutter.....             | 59.53                  | 7.07                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 7.70                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 3.56                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.17                  |                      |
| <b>07 71 23 00-0077</b> |     |     | <b>Box Style Copper Gutters</b> (07 71 23 00-0077)  |                        |                      |
| 07 71 23 00-0078        | LF  | 5"  | 16 Ounce, Box Style Copper Gutter.....              | 28.45                  | 6.45                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.46                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 1.96                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.08                  |                      |
| 07 71 23 00-0079        | LF  | 6"  | 16 Ounce, Box Style Copper Gutter.....              | 30.58                  | 7.07                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.81                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.11                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.17                  |                      |
| 07 71 23 00-0080        | LF  | 7"  | 16 Ounce, Box Style Copper Gutter.....              | 36.64                  | 7.53                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 5.53                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.45                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.24                  |                      |
| 07 71 23 00-0081        | LF  | 8"  | 16 Ounce, Box Style Copper Gutter.....              | 37.55                  | 7.99                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 5.74                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.54                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.32                  |                      |
| 07 71 23 00-0082        | LF  | 5"  | 20 Ounce, Box Style Copper Gutter.....              | 32.08                  | 6.45                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 4.82                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.14                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.08                  |                      |
| 07 71 23 00-0083        | LF  | 6"  | 20 Ounce, Box Style Copper Gutter.....              | 34.22                  | 7.07                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 5.17                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.29                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.17                  |                      |
| 07 71 23 00-0084        | LF  | 7"  | 20 Ounce, Box Style Copper Gutter.....              | 40.27                  | 7.53                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 5.89                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.64                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.24                  |                      |
| 07 71 23 00-0085        | LF  | 8"  | 20 Ounce, Box Style Copper Gutter.....              | 41.18                  | 7.99                 |
|                         |     |     | <i>For Up To 100', Add</i>                          | 6.10                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>                    | 2.72                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>                       | -1.32                  |                      |
| <b>07 71 23 00-0086</b> |     |     | <b>Copper Gutter End Caps</b> (07 71 23 00-0086)    |                        |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 07 71 23 00-0087 |       |     |     | <b>K-Style, Copper Gutter End Caps</b> (07 71 23 00-0086)                                    |                        |                      |
| 07 71 23 00-0088 | EA    |     |     | 4", K-Style Copper Gutter End Cap .....  | 7.10                   |                      |
| 07 71 23 00-0089 | EA    |     |     | 5", K-Style Copper Gutter End Cap .....  | 7.55                   |                      |
| 07 71 23 00-0090 | EA    |     |     | 6", K-Style Copper Gutter End Cap .....  | 7.99                   |                      |
| 07 71 23 00-0091 | EA    |     |     | 7", K-Style Copper Gutter End Cap .....  | 19.89                  |                      |
| 07 71 23 00-0092 | EA    |     |     | 8", K-Style Copper Gutter End Cap .....  | 24.07                  |                      |
| 07 71 23 00-0093 |       |     |     | <b>Half Round, Copper Gutter End Caps</b> (07 71 23 00-0086)                                 |                        |                      |
| 07 71 23 00-0094 | EA    |     |     | 4", Half Round Copper Gutter End Cap .....   | 8.42                   |                      |
| 07 71 23 00-0095 | EA    |     |     | 5", Half Round Copper Gutter End Cap .....   | 9.36                   |                      |
| 07 71 23 00-0096 | EA    |     |     | 6", Half Round Copper Gutter End Cap .....   | 13.72                  |                      |
| 07 71 23 00-0097 | EA    |     |     | 7", Half Round Copper Gutter End Cap .....   | 39.65                  |                      |
| 07 71 23 00-0098 | EA    |     |     | 8", Half Round Copper Gutter End Cap .....   | 46.68                  |                      |
| 07 71 23 00-0099 |       |     |     | <b>Box Style, Copper Gutter End Caps</b> (07 71 23 00-0086)                                  |                        |                      |
| 07 71 23 00-0100 | EA    |     |     | 5", Box Style Copper Gutter End Cap .....  | 15.43                  |                      |
| 07 71 23 00-0101 | EA    |     |     | 6", Box Style Copper Gutter End Cap .....  | 16.16                  |                      |
| 07 71 23 00-0102 | EA    |     |     | 7", Box Style Copper Gutter End Cap .....  | 16.89                  |                      |
| 07 71 23 00-0103 | EA    |     |     | 8", Box Style Copper Gutter End Cap .....  | 18.34                  |                      |
| 07 71 23 00-0104 |       |     |     | <b>Copper Gutter Miters</b> (07 71 23 00-0059)<br>Note: Inside or outside miters.            |                        |                      |
| 07 71 23 00-0105 |       |     |     | <b>K-Style, Copper Gutter Miters</b> (07 71 23 00-0104)                                      |                        |                      |
| 07 71 23 00-0106 | EA    |     |     | 4", K-Style Copper Gutter Miter .....  | 44.25                  |                      |
| 07 71 23 00-0107 | EA    |     |     | 5", K-Style Copper Gutter Miter .....  | 49.91                  |                      |
| 07 71 23 00-0108 | EA    |     |     | 6", K-Style Copper Gutter Miter .....  | 70.34                  |                      |
| 07 71 23 00-0109 | EA    |     |     | 7", K-Style Copper Gutter Miter .....  | 97.98                  |                      |
| 07 71 23 00-0110 | EA    |     |     | 8", K-Style Copper Gutter Miter .....  | 114.47                 |                      |
| 07 71 23 00-0111 |       |     |     | <b>Half Round, Copper Gutter Miters</b> (07 71 23 00-0104)                                   |                        |                      |
| 07 71 23 00-0112 | EA    |     |     | 4", Half Round Copper Gutter Miter .....   | 66.98                  |                      |
| 07 71 23 00-0113 | EA    |     |     | 5", Half Round Copper Gutter Miter .....   | 62.51                  |                      |
| 07 71 23 00-0114 | EA    |     |     | 6", Half Round Copper Gutter Miter .....   | 88.56                  |                      |
| 07 71 23 00-0115 | EA    |     |     | 7", Half Round Copper Gutter Miter .....   | 105.05                 |                      |
| 07 71 23 00-0116 | EA    |     |     | 8", Half Round Copper Gutter Miter .....   | 123.62                 |                      |
| 07 71 23 00-0117 |       |     |     | <b>Box Style, Copper Gutter Miters</b> (07 71 23 00-0104)                                    |                        |                      |
| 07 71 23 00-0118 | EA    |     |     | 5", 16 Ounce Box Style Copper Gutter Miter .....   | 73.57                  |                      |
| 07 71 23 00-0119 | EA    |     |     | 6", 16 Ounce Box Style Copper Gutter Miter .....   | 76.10                  |                      |
| 07 71 23 00-0120 | EA    |     |     | 7", 16 Ounce Box Style Copper Gutter Miter .....   | 82.98                  |                      |
| 07 71 23 00-0121 | EA    |     |     | 8", 16 Ounce Box Style Copper Gutter Miter .....   | 84.88                  |                      |
| 07 71 23 00-0122 | EA    |     |     | 5", 20 Ounce Box Style Copper Gutter Miter .....   | 80.83                  |                      |
| 07 71 23 00-0123 | EA    |     |     | 6", 20 Ounce Box Style Copper Gutter Miter .....   | 83.37                  |                      |
| 07 71 23 00-0124 | EA    |     |     | 7", 20 Ounce Box Style Copper Gutter Miter .....   | 90.25                  |                      |
| 07 71 23 00-0125 | EA    |     |     | 8", 20 Ounce Box Style Copper Gutter Miter .....   | 98.74                  |                      |
| 07 71 23 00-0126 |       |     |     | <b>Copper Gutter Wire Strainers</b> (07 71 23 00-0059)                                       |                        |                      |
| 07 71 23 00-0127 | EA    |     |     | 2" Diameter, Round Copper Wire Strainer .....  | 21.92                  | 3.84                 |
| 07 71 23 00-0128 | EA    |     |     | 3" Diameter, Round Copper Wire Strainer .....  | 26.50                  | 3.84                 |
| 07 71 23 00-0129 | EA    |     |     | 4" Diameter, Round Copper Wire Strainer .....  | 41.44                  | 3.84                 |
| 07 71 23 00-0130 | EA    |     |     | 5" Diameter, Round Copper Wire Strainer .....  | 54.45                  | 3.84                 |
| 07 71 23 00-0131 | EA    |     |     | 6" Diameter, Round Copper Wire Strainer .....  | 65.34                  | 3.84                 |
| 07 71 23 00-0132 |       |     |     | <b>Copper Downspouts</b> (07 71 23 00-0059)<br>Note: Includes elbows, hangers and fasteners. |                        |                      |
| 07 71 23 00-0133 |       |     |     | <b>Round Copper Downspouts</b> (07 71 23 00-0132)  |                        |                      |
| 07 71 23 00-0134 | LF    |     |     | 2" Diameter, 16 Ounce, Round Copper Downspout .....  | 27.03                  | 3.69                 |
|                  |       |     |     | For Up To 100', Add  | 3.30                   |                      |
|                  |       |     |     | For >100 To 250', Add  | 1.55                   |                      |
|                  |       |     |     | For >1,000', Deduct  | -0.40                  |                      |
| 07 71 23 00-0135 | LF    |     |     | 3" Diameter, 16 Ounce, Round Copper Downspout .....  | 19.17                  | 3.69                 |
|                  |       |     |     | For Up To 100', Add  | 2.52                   |                      |
|                  |       |     |     | For >100 To 250', Add  | 1.16                   |                      |
|                  |       |     |     | For >1,000', Deduct  | -0.40                  |                      |
| 07 71 23 00-0136 | LF    |     |     | 4" Diameter, 16 Ounce, Round Copper Downspout .....  | 23.87                  | 3.69                 |
|                  |       |     |     | For Up To 100', Add  | 2.99                   |                      |
|                  |       |     |     | For >100 To 250', Add  | 1.39                   |                      |
|                  |       |     |     | For >1,000', Deduct  | -0.40                  |                      |
| 07 71 23 00-0137 | LF    |     |     | 5" Diameter, 16 Ounce, Round Copper Downspout .....  | 37.48                  | 3.69                 |
|                  |       |     |     | For Up To 100', Add  | 4.35                   |                      |
|                  |       |     |     | For >100 To 250', Add  | 2.07                   |                      |
|                  |       |     |     | For >1,000', Deduct  | -0.40                  |                      |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 71 23 00-0138 LF 6" Diameter, 16 Ounce, Round Copper Downspout .....                       | 47.87                     | 3.69                    |
| For Up To 100', Add   | 5.39                      |                         |
| For >100 To 250', Add   | 2.59                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0139 LF 3" Diameter, 20 Ounce, Round Copper Downspout .....                       | 25.54                     | 3.69                    |
| For Up To 100', Add   | 3.15                      |                         |
| For >100 To 250', Add   | 1.48                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0140 LF 4" Diameter, 20 Ounce, Round Copper Downspout .....                       | 32.80                     | 3.69                    |
| For Up To 100', Add   | 3.88                      |                         |
| For >100 To 250', Add   | 1.84                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0141 LF 5" Diameter, 20 Ounce, Round Copper Downspout .....                       | 49.28                     | 3.69                    |
| For Up To 100', Add   | 5.53                      |                         |
| For >100 To 250', Add   | 2.66                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| <b>07 71 23 00-0142 Square Copper Downspouts (07 71 23 00-0132)</b>                           |                           |                         |
| 07 71 23 00-0143 LF 3" Diameter, 16 Ounce, Square Copper Downspout .....                      | 13.62                     | 3.69                    |
| For Up To 100', Add   | 1.96                      |                         |
| For >100 To 250', Add   | 0.88                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0144 LF 4" Diameter, 16 Ounce, Square Copper Downspout .....                      | 16.74                     | 3.69                    |
| For Up To 100', Add   | 2.27                      |                         |
| For >100 To 250', Add   | 1.04                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0145 LF 5" Diameter, 16 Ounce, Square Copper Downspout .....                      | 23.48                     | 3.69                    |
| For Up To 100', Add   | 2.95                      |                         |
| For >100 To 250', Add   | 1.37                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0146 LF 3" Diameter, 20 Ounce, Square Copper Downspout .....                      | 15.55                     | 3.69                    |
| For Up To 100', Add   | 2.15                      |                         |
| For >100 To 250', Add   | 0.98                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0147 LF 4" Diameter, 20 Ounce, Square Copper Downspout .....                      | 19.45                     | 3.69                    |
| For Up To 100', Add   | 2.54                      |                         |
| For >100 To 250', Add   | 1.17                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0148 LF 5" Diameter, 20 Ounce, Square Copper Downspout .....                      | 27.45                     | 3.69                    |
| For Up To 100', Add   | 3.34                      |                         |
| For >100 To 250', Add   | 1.57                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| <b>07 71 23 00-0149 Rectangular Copper Downspouts (07 71 23 00-0132)</b>                      |                           |                         |
| 07 71 23 00-0150 LF 2" x 3", 16 Ounce, Rectangular Copper Downspout .....                     | 19.65                     | 3.69                    |
| For Up To 100', Add   | 2.56                      |                         |
| For >100 To 250', Add   | 1.18                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0151 LF 3" x 4", 16 Ounce, Rectangular Copper Downspout .....                     | 24.56                     | 3.69                    |
| For Up To 100', Add   | 3.05                      |                         |
| For >100 To 250', Add   | 1.43                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0152 LF 4" x 5", 16 Ounce, Rectangular Copper Downspout .....                     | 34.46                     | 3.69                    |
| For Up To 100', Add   | 4.04                      |                         |
| For >100 To 250', Add   | 1.92                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0153 LF 2" x 3", 20 Ounce, Rectangular Copper Downspout .....                     | 22.70                     | 3.69                    |
| For Up To 100', Add   | 2.87                      |                         |
| For >100 To 250', Add   | 1.33                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0154 LF 3" x 4", 20 Ounce, Rectangular Copper Downspout .....                     | 28.79                     | 3.69                    |
| For Up To 100', Add   | 3.48                      |                         |
| For >100 To 250', Add   | 1.64                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| 07 71 23 00-0155 LF 4" x 5", 20 Ounce, Rectangular Copper Downspout .....                     | 40.85                     | 3.69                    |
| For Up To 100', Add   | 4.68                      |                         |
| For >100 To 250', Add   | 2.24                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| <b>07 71 23 00-0156 Copper Devices And Accessories (07 71 23 00-0059)</b>                     |                           |                         |
| 07 71 23 00-0157 EA Thru-Wall Copper Scupper Outlet.....                                      | 219.09                    | 26.37                   |
| 07 71 23 00-0158 EA Copper Leader/Conductor Head.....   | 308.31                    | 29.31                   |
| 07 71 23 00-0159 EA Copper Eave Box.....  | 148.08                    | 23.04                   |
| <b>07 71 23 00-0160 Galvanized Steel Gutters And Downspouts (07 71 23)</b>                    |                           |                         |
| <b>07 71 23 00-0161 Galvanized Steel Gutters (07 71 23 00-0160)</b>                           |                           |                         |
| Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts. |                           |                         |
| <b>07 71 23 00-0162 K-Style Galvanized Steel Gutters (07 71 23 00-0161)</b>                   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 71 23 00-0163 LF 5", 26 Gauge, K-Style Galvanized Steel Gutter .....        | 14.98                     | 5.68                    |
| For Up To 100', Add  | 2.90                      |                         |
| For >100' To 250', Add   | 1.22                      |                         |
| For >1,000', Deduct  | -0.94                     |                         |
| For Kynar 500® Finish, Add   | 2.52                      |                         |
| For 24 Gauge, Add  | 1.57                      |                         |
| For 22 Gauge, Add  | 3.09                      |                         |
| 07 71 23 00-0164 LF 6", 26 Gauge, K-Style Galvanized Steel Gutter .....        | 17.15                     | 5.99                    |
| For Up To 100', Add  | 3.19                      |                         |
| For >100' To 250', Add   | 1.35                      |                         |
| For >1,000', Deduct  | -0.98                     |                         |
| For Kynar 500® Finish, Add   | 3.29                      |                         |
| For 24 Gauge, Add  | 2.05                      |                         |
| For 22 Gauge, Add  | 4.03                      |                         |
| 07 71 23 00-0165 LF 7", 26 Gauge, K-Style Galvanized Steel Gutter .....        | 33.11                     | 6.29                    |
| For Up To 100', Add  | 4.90                      |                         |
| For >100' To 250', Add   | 2.19                      |                         |
| For >1,000', Deduct  | -1.06                     |                         |
| For Kynar 500® Finish, Add   | 10.13                     |                         |
| For 24 Gauge, Add  | 6.31                      |                         |
| For 22 Gauge, Add  | 12.39                     |                         |
| 07 71 23 00-0166 LF 8", 26 Gauge, K-Style Galvanized Steel Gutter .....        | 35.05                     | 7.07                    |
| For Up To 100', Add  | 5.26                      |                         |
| For >100' To 250', Add   | 2.34                      |                         |
| For >1,000', Deduct  | -1.17                     |                         |
| For Kynar 500® Finish, Add   | 10.52                     |                         |
| For 24 Gauge, Add  | 6.55                      |                         |
| For 22 Gauge, Add  | 12.86                     |                         |
| <b>07 71 23 00-0167 Half Round Galvanized Steel Gutters (07 71 23 00-0161)</b> |                           |                         |
| 07 71 23 00-0168 LF 5", 26 Gauge, Half Round Galvanized Steel Gutter .....     | 20.77                     | 5.68                    |
| For Up To 100', Add  | 3.48                      |                         |
| For >100' To 250', Add   | 1.51                      |                         |
| For >1,000', Deduct  | -0.94                     |                         |
| For Kynar 500® Finish, Add   | 5.13                      |                         |
| For 24 Gauge, Add  | 3.19                      |                         |
| For 22 Gauge, Add  | 6.27                      |                         |
| 07 71 23 00-0169 LF 6", 26 Gauge, Half Round Galvanized Steel Gutter .....     | 25.68                     | 5.99                    |
| For Up To 100', Add  | 4.04                      |                         |
| For >100' To 250', Add   | 1.78                      |                         |
| For >1,000', Deduct  | -0.98                     |                         |
| For Kynar 500® Finish, Add   | 7.13                      |                         |
| For 24 Gauge, Add  | 4.44                      |                         |
| For 22 Gauge, Add  | 8.72                      |                         |
| 07 71 23 00-0170 LF 7", 26 Gauge, Half Round Galvanized Steel Gutter .....     | 61.08                     | 6.29                    |
| For Up To 100', Add  | 7.70                      |                         |
| For >100' To 250', Add   | 3.58                      |                         |
| For >1,000', Deduct  | -1.06                     |                         |
| For Kynar 500® Finish, Add   | 22.72                     |                         |
| For 24 Gauge, Add  | 14.14                     |                         |
| For 22 Gauge, Add  | 27.77                     |                         |
| 07 71 23 00-0171 LF 8", 26 Gauge, Half Round Galvanized Steel Gutter .....     | 65.27                     | 7.07                    |
| For Up To 100', Add  | 8.28                      |                         |
| For >100' To 250', Add   | 3.85                      |                         |
| For >1,000', Deduct  | -1.17                     |                         |
| For Kynar 500® Finish, Add   | 24.12                     |                         |
| For 24 Gauge, Add  | 15.01                     |                         |
| For 22 Gauge, Add  | 29.48                     |                         |
| <b>07 71 23 00-0172 Box Style Galvanized Steel Gutters (07 71 23 00-0161)</b>  |                           |                         |
| 07 71 23 00-0173 LF 5", 24 Gauge, Box Style Galvanized Steel Gutter .....      | 24.75                     | 6.45                    |
| For Up To 100', Add  | 4.09                      |                         |
| For >100' To 250', Add   | 1.78                      |                         |
| For >1,000', Deduct  | -1.08                     |                         |
| For Kynar 500® Finish, Add   | 6.30                      |                         |
| For 22 Gauge, Add  | 3.08                      |                         |
| 07 71 23 00-0174 LF 6", 24 Gauge, Box Style Galvanized Steel Gutter .....      | 28.79                     | 7.07                    |
| For Up To 100', Add  | 4.63                      |                         |
| For >100' To 250', Add   | 2.02                      |                         |
| For >1,000', Deduct  | -1.17                     |                         |
| For Kynar 500® Finish, Add   | 7.70                      |                         |
| For 22 Gauge, Add  | 3.77                      |                         |
| 07 71 23 00-0175 LF 7", 24 Gauge, Box Style Galvanized Steel Gutter .....      | 35.34                     | 6.29                    |
| For Up To 100', Add  | 5.12                      |                         |
| For >100' To 250', Add   | 2.30                      |                         |
| For >1,000', Deduct  | -1.06                     |                         |
| For Kynar 500® Finish, Add   | 11.14                     |                         |
| For 22 Gauge, Add  | 5.45                      |                         |
| 07 71 23 00-0176 LF 8", 24 Gauge, Box Style Galvanized Steel Gutter .....      | 39.62                     | 7.99                    |
| For Up To 100', Add  | 5.94                      |                         |
| For >100' To 250', Add   | 2.64                      |                         |
| For >1,000', Deduct  | -1.32                     |                         |
| For Kynar 500® Finish, Add   | 11.88                     |                         |
| For 22 Gauge, Add  | 5.81                      |                         |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |   |        |      |
|------------------|---|--------|------|
| 07 71 23 00-0177 | Galvanized Steel Gutter End Caps (07 71 23 00-0160)             |        |      |
| 07 71 23 00-0178 | K-Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)    |        |      |
| 07 71 23 00-0179 | EA 5", K-Style Galvanized Steel Gutter End Cap.....             | 6.44   |      |
|                  | For Kynar 500® Finish, Add                                      | 1.51   |      |
| 07 71 23 00-0180 | EA 6", K-Style Galvanized Steel Gutter End Cap.....             | 7.32   |      |
|                  | For Kynar 500® Finish, Add                                      | 1.91   |      |
| 07 71 23 00-0181 | EA 7", K-Style Galvanized Steel Gutter End Cap.....             | 15.17  |      |
|                  | For Kynar 500® Finish, Add                                      | 5.44   |      |
| 07 71 23 00-0182 | EA 8", K-Style Galvanized Steel Gutter End Cap.....             | 21.72  |      |
|                  | For Kynar 500® Finish, Add                                      | 8.39   |      |
| 07 71 23 00-0183 | Half Round, Galvanized Steel Gutter End Caps (07 71 23 00-0177) |        |      |
| 07 71 23 00-0184 | EA 5", Half Round Galvanized Steel Gutter End Cap.....          | 8.10   |      |
|                  | For Kynar 500® Finish, Add                                      | 2.26   |      |
| 07 71 23 00-0185 | EA 6", Half Round Galvanized Steel Gutter End Cap.....          | 9.23   |      |
|                  | For Kynar 500® Finish, Add                                      | 2.77   |      |
| 07 71 23 00-0186 | EA 7", Half Round Galvanized Steel Gutter End Cap.....          | 16.67  |      |
|                  | For Kynar 500® Finish, Add                                      | 6.12   |      |
| 07 71 23 00-0187 | EA 8", Half Round Galvanized Steel Gutter End Cap.....          | 22.31  |      |
|                  | For Kynar 500® Finish, Add                                      | 8.65   |      |
| 07 71 23 00-0188 | Box Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)  |        |      |
| 07 71 23 00-0189 | EA 5", Box Style Galvanized Steel Gutter End Cap.....           | 14.04  |      |
|                  | For Kynar 500® Finish, Add                                      | 4.93   |      |
| 07 71 23 00-0190 | EA 6", Box Style Galvanized Steel Gutter End Cap.....           | 16.78  |      |
|                  | For Kynar 500® Finish, Add                                      | 6.17   |      |
| 07 71 23 00-0191 | EA 7", Box Style Galvanized Steel Gutter End Cap.....           | 18.72  |      |
|                  | For Kynar 500® Finish, Add                                      | 7.04   |      |
| 07 71 23 00-0192 | EA 8", Box Style Galvanized Steel Gutter End Cap.....           | 24.87  |      |
|                  | For Kynar 500® Finish, Add                                      | 9.81   |      |
| 07 71 23 00-0193 | Galvanized Steel Gutter Miters (07 71 23 00-0160)               |        |      |
|                  | Note: Inside or outside miters.                                 |        |      |
| 07 71 23 00-0194 | K-Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)      |        |      |
| 07 71 23 00-0195 | EA 5", K-Style Galvanized Steel Gutter Miter.....               | 38.28  |      |
|                  | For Kynar 500® Finish, Add                                      | 10.25  |      |
| 07 71 23 00-0196 | EA 6", K-Style Galvanized Steel Gutter Miter.....               | 60.15  |      |
|                  | For Kynar 500® Finish, Add                                      | 19.60  |      |
| 07 71 23 00-0197 | EA 7", K-Style Galvanized Steel Gutter Miter.....               | 94.27  |      |
|                  | For Kynar 500® Finish, Add                                      | 34.47  |      |
| 07 71 23 00-0198 | EA 8", K-Style Galvanized Steel Gutter Miter.....               | 105.76 |      |
|                  | For Kynar 500® Finish, Add                                      | 39.09  |      |
| 07 71 23 00-0199 | Half Round, Galvanized Steel Gutter Miters (07 71 23 00-0193)   |        |      |
| 07 71 23 00-0200 | EA 5", Half Round Galvanized Steel Gutter Miter.....            | 51.15  |      |
|                  | For Kynar 500® Finish, Add                                      | 16.04  |      |
| 07 71 23 00-0201 | EA 6", Half Round Galvanized Steel Gutter Miter.....            | 57.31  |      |
|                  | For Kynar 500® Finish, Add                                      | 18.32  |      |
| 07 71 23 00-0202 | EA 7", Half Round Galvanized Steel Gutter Miter.....            | 156.12 |      |
|                  | For Kynar 500® Finish, Add                                      | 62.31  |      |
| 07 71 23 00-0203 | EA 8", Half Round Galvanized Steel Gutter Miter.....            | 165.04 |      |
|                  | For Kynar 500® Finish, Add                                      | 65.77  |      |
| 07 71 23 00-0204 | Box Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)    |        |      |
| 07 71 23 00-0205 | EA 5", Box Style Galvanized Steel Gutter Miter.....             | 48.57  |      |
|                  | For Kynar 500® Finish, Add                                      | 14.88  |      |
| 07 71 23 00-0206 | EA 6", Box Style Galvanized Steel Gutter Miter.....             | 77.19  |      |
|                  | For Kynar 500® Finish, Add                                      | 27.27  |      |
| 07 71 23 00-0207 | EA 7", Box Style Galvanized Steel Gutter Miter.....             | 99.40  |      |
|                  | For Kynar 500® Finish, Add                                      | 36.78  |      |
| 07 71 23 00-0208 | EA 8", Box Style Galvanized Steel Gutter Miter.....             | 105.76 |      |
|                  | For Kynar 500® Finish, Add                                      | 39.09  |      |
| 07 71 23 00-0209 | Galvanized Steel Gutter Wire Strainers (07 71 23 00-0160)       |        |      |
| 07 71 23 00-0210 | EA 3" Diameter, Round Galvanized Steel Wire Strainer.....       | 15.33  | 3.84 |
|                  | For Kynar 500® Finish, Add                                      | 3.30   |      |
| 07 71 23 00-0211 | EA 4" Diameter, Round Galvanized Steel Wire Strainer.....       | 21.57  | 3.84 |
|                  | For Kynar 500® Finish, Add                                      | 6.11   |      |
| 07 71 23 00-0212 | Galvanized Steel Downspouts (07 71 23 00-0160)                  |        |      |
|                  | Note: Includes elbows, hangers and fasteners.                   |        |      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>07 71 23 00-0213 Round Galvanized Steel Downspouts</b> (07 71 23 00-0212)                  |                           |                         |
| 07 71 23 00-0214 LF 3" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....              | 8.08                      | 3.69                    |
| For Up To 100', Add   | 1.41                      |                         |
| For >100 To 250', Add   | 0.60                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 1.84                      |                         |
| For 24 Gauge, Add   | 1.15                      |                         |
| For 22 Gauge, Add   | 2.25                      |                         |
| 07 71 23 00-0215 LF 4" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....              | 9.84                      | 3.69                    |
| For Up To 100', Add   | 1.58                      |                         |
| For >100 To 250', Add   | 0.69                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 2.63                      |                         |
| For 24 Gauge, Add   | 1.64                      |                         |
| For 22 Gauge, Add   | 3.22                      |                         |
| 07 71 23 00-0216 LF 5" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....              | 13.08                     | 3.69                    |
| For Up To 100', Add   | 1.91                      |                         |
| For >100 To 250', Add   | 0.85                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 4.09                      |                         |
| For 24 Gauge, Add   | 2.55                      |                         |
| For 22 Gauge, Add   | 5.00                      |                         |
| 07 71 23 00-0217 LF 6" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....              | 28.04                     | 3.69                    |
| For Up To 100', Add   | 3.40                      |                         |
| For >100 To 250', Add   | 1.60                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 10.82                     |                         |
| For 24 Gauge, Add   | 6.73                      |                         |
| For 22 Gauge, Add   | 13.23                     |                         |
| <b>07 71 23 00-0218 Square Galvanized Steel Downspouts</b> (07 71 23 00-0212)                 |                           |                         |
| 07 71 23 00-0219 LF 4" x 4", 26 Gauge, Square Galvanized Steel Downspout .....                | 9.06                      | 3.69                    |
| For Up To 100', Add   | 1.50                      |                         |
| For >100 To 250', Add   | 0.65                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 2.28                      |                         |
| For 24 Gauge, Add   | 1.42                      |                         |
| For 22 Gauge, Add   | 2.79                      |                         |
| 07 71 23 00-0220 LF 5" x 5", 26 Gauge, Square Galvanized Steel Downspout .....                | 11.37                     | 3.69                    |
| For Up To 100', Add   | 1.74                      |                         |
| For >100 To 250', Add   | 0.77                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 3.32                      |                         |
| For 24 Gauge, Add   | 2.07                      |                         |
| For 22 Gauge, Add   | 4.06                      |                         |
| <b>07 71 23 00-0221 Rectangular Galvanized Steel Downspouts</b> (07 71 23 00-0212)            |                           |                         |
| 07 71 23 00-0222 LF 2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout.....            | 8.22                      | 3.69                    |
| For Up To 100', Add   | 1.42                      |                         |
| For >100 To 250', Add   | 0.61                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 1.90                      |                         |
| For 24 Gauge, Add   | 1.18                      |                         |
| For 22 Gauge, Add   | 2.33                      |                         |
| 07 71 23 00-0223 LF 3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout.....            | 10.24                     | 3.69                    |
| For Up To 100', Add   | 1.62                      |                         |
| For >100 To 250', Add   | 0.71                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 2.81                      |                         |
| For 24 Gauge, Add   | 1.75                      |                         |
| For 22 Gauge, Add   | 3.44                      |                         |
| 07 71 23 00-0224 LF 4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout.....            | 18.28                     | 3.69                    |
| For Up To 100', Add   | 2.43                      |                         |
| For >100 To 250', Add   | 1.11                      |                         |
| For >1,000', Deduct   | -0.40                     |                         |
| For Kynar 500® Finish, Add  | 6.43                      |                         |
| For 24 Gauge, Add   | 4.00                      |                         |
| For 22 Gauge, Add   | 7.86                      |                         |
| <b>07 71 23 00-0225 Galvanized Steel Devices</b> (07 71 23 00-0160)                           |                           |                         |
| 07 71 23 00-0226 EA Galvanized Steel Leader/Conductor Head .....                              | 320.20                    | 29.31                   |
| For Kynar 500® Finish, Add  | 117.71                    |                         |
| 07 71 23 00-0227 EA Thru-Wall Galvanized Steel Scupper Outlet .....                           | 185.32                    | 26.37                   |
| For Kynar 500® Finish, Add  | 43.83                     |                         |
| <b>07 71 23 00-0228 Stainless Steel Gutters And Downspouts</b> (07 71 23)                     |                           |                         |
| Note: AISI type 304 stainless steel.  |                           |                         |
| <b>07 71 23 00-0229 Stainless Steel Gutters</b> (07 71 23 00-0228)                            |                           |                         |
| Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts. |                           |                         |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 71 23 00-0230 |     |     | <b>K-Style, Stainless Steel Gutters</b> (07 71 23 00-0229)         |                        |                      |
| 07 71 23 00-0231 | LF  |     | 5", 26 Gauge, K-Style Stainless Steel Gutter.....                  | 30.57                  | 5.68                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 4.46                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 2.00                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -0.94                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 8.06                   |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 7.00                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 13.99                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 20.99                  |                      |
| 07 71 23 00-0232 | LF  |     | 6", 26 Gauge, K-Style Stainless Steel Gutter.....                  | 36.34                  | 5.99                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 5.11                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 2.31                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -0.98                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 10.07                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 8.75                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 17.50                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 26.24                  |                      |
| 07 71 23 00-0233 |     |     | <b>Half Round, Stainless Steel Gutters</b> (07 71 23 00-0229)      |                        |                      |
| 07 71 23 00-0234 | LF  |     | 5", 26 Gauge, Half Round Stainless Steel Gutter .....              | 41.47                  | 5.68                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 5.55                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 2.54                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -0.94                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 12.20                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 10.59                  |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 21.19                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 31.78                  |                      |
| 07 71 23 00-0235 | LF  |     | 6", 26 Gauge, Half Round Stainless Steel Gutter .....              | 49.89                  | 5.99                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 6.46                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 2.99                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -0.98                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 15.22                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 13.22                  |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 26.44                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 39.66                  |                      |
| 07 71 23 00-0236 |     |     | <b>Box Style, Stainless Steel Gutters</b> (07 71 23 00-0229)       |                        |                      |
| 07 71 23 00-0237 | LF  |     | 5", 26 Gauge, Box Style Stainless Steel Gutter .....               | 40.99                  | 6.45                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 5.71                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 2.59                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -1.08                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 11.49                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 9.98                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 19.95                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 29.93                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 50.18                  |                      |
|                  |     |     | <i>For Seamless Gutter, Add</i>                                    | 0.10                   |                      |
| 07 71 23 00-0238 | LF  |     | 6", 26 Gauge, Box Style Stainless Steel Gutter .....               | 49.65                  | 7.07                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 6.72                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 3.07                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -1.17                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 14.43                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 12.53                  |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 25.07                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 37.60                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 63.05                  |                      |
|                  |     |     | <i>For Seamless Gutter, Add</i>                                    | -0.15                  |                      |
| 07 71 23 00-0239 | LF  |     | 7", 26 Gauge, Box Style Stainless Steel Gutter .....               | 58.33                  | 7.53                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 7.70                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 3.54                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -1.24                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 17.44                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 15.14                  |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 30.29                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 45.43                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 76.18                  |                      |
|                  |     |     | <i>For Seamless Gutter, Add</i>                                    | -0.43                  |                      |
| 07 71 23 00-0240 | LF  |     | 8", 26 Gauge, Box Style Stainless Steel Gutter .....               | 63.35                  | 7.99                 |
|                  |     |     | <i>For Up To 100', Add</i>   | 8.32                   |                      |
|                  |     |     | <i>For &gt;100' To 250', Add</i>                                   | 3.83                   |                      |
|                  |     |     | <i>For &gt;1,000', Deduct</i>                                      | -1.32                  |                      |
|                  |     |     | <i>For 316 Stainless Steel, Add</i>                                | 19.05                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 16.55                  |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 33.09                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 49.64                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 83.23                  |                      |
|                  |     |     | <i>For Seamless Gutter, Add</i>                                    | -0.53                  |                      |
| 07 71 23 00-0241 |     |     | <b>Stainless Steel Gutter End Caps</b> (07 71 23 00-0228)          |                        |                      |
| 07 71 23 00-0242 |     |     | <b>K-Style, Stainless Steel Gutter End Caps</b> (07 71 23 00-0241) |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 07 71 23 00-0243 EA 5", K-Style Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>   | 9.71<br>2.52   |                         |
| 07 71 23 00-0244 EA 6", K-Style Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>   | 11.04<br>3.02  |                         |
| <b>07 71 23 00-0245 Half Round, Stainless Steel Gutter End Caps (07 71 23 00-0241)</b>  |  |                         |
| 07 71 23 00-0246 EA 5", Half Round Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>  | 11.37<br>3.15  |                         |
| 07 71 23 00-0247 EA 6", Half Round Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>  | 13.03<br>3.78  |                         |
| <b>07 71 23 00-0248 Box Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)</b>   |  |                         |
| 07 71 23 00-0249 EA 5", Box Style Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>   | 12.13<br>3.15  |                         |
| 07 71 23 00-0250 EA 6", Box Style Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>   | 13.79<br>3.78  |                         |
| 07 71 23 00-0251 EA 7", Box Style Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>   | 14.32<br>4.08  |                         |
| 07 71 23 00-0252 EA 8", Box Style Stainless Steel Gutter End Cap .....<br><i>For 316 Stainless Steel, Add</i>   | 17.31<br>5.03  |                         |
| <b>07 71 23 00-0253 Stainless Steel Gutter Miters (07 71 23 00-0228)</b><br>Note: Inside or outside box miters.   |  |                         |
| <b>07 71 23 00-0254 K-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)</b>   |  |                         |
| 07 71 23 00-0255 EA 5", K-Style Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>   | 49.77<br>13.02   |                         |
| 07 71 23 00-0256 EA 6", K-Style Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>   | 77.38<br>23.10   |                         |
| <b>07 71 23 00-0257 Half Round, Stainless Steel Gutter Miters (07 71 23 00-0253)</b>  |  |                         |
| 07 71 23 00-0258 EA 5", Half Round Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>  | 116.09<br>38.22  |                         |
| 07 71 23 00-0259 EA 6", Half Round Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>  | 141.44<br>47.44  |                         |
| <b>07 71 23 00-0260 Box-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)</b>   |  |                         |
| 07 71 23 00-0261 EA 5", Box-Style Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>   | 56.62<br>15.62   |                         |
| 07 71 23 00-0262 EA 6", Box-Style Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>   | 89.54<br>27.72   |                         |
| 07 71 23 00-0263 EA 7", Box-Style Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>   | 102.76<br>32.34  |                         |
| 07 71 23 00-0264 EA 8", Box-Style Stainless Steel Gutter Miter .....<br><i>For 316 Stainless Steel, Add</i>   | 116.15<br>36.96  |                         |
| <b>07 71 23 00-0265 Stainless Steel Gutter Wire Strainers (07 71 23 00-0228)</b>  |  |                         |
| 07 71 23 00-0266 EA 3" Diameter, Round Stainless Steel Wire Strainer .....  | 47.43  | 3.84                    |
| 07 71 23 00-0267 EA 4" Diameter, Round Stainless Steel Wire Strainer .....  | 48.51  | 3.84                    |
| <b>07 71 23 00-0268 Stainless Steel Downspouts (07 71 23 00-0228)</b><br>Note: Includes elbows, hangers and fasteners.  |  |                         |
| <b>07 71 23 00-0269 Round Stainless Steel Downspouts (07 71 23 00-0268)</b>   |  |                         |
| 07 71 23 00-0270 LF 3" Diameter, 26 Gauge, Round Stainless Steel Downspout .....<br><i>For Up To 100', Add</i><br><i>For &gt;100 To 250', Add</i><br><i>For &gt;1,000', Deduct</i><br><i>For 316 Stainless Steel, Add</i><br><i>For 24 Gauge, Add</i><br><i>For 22 Gauge, Add</i><br><i>For 20 Gauge, Add</i> | 17.69<br>2.37<br>1.08<br>-0.40<br>5.21<br>4.52<br>9.04<br>13.56  |                         |
| 07 71 23 00-0271 LF 4" Diameter, 26 Gauge, Round Stainless Steel Downspout .....<br><i>For Up To 100', Add</i><br><i>For &gt;100 To 250', Add</i><br><i>For &gt;1,000', Deduct</i><br><i>For 316 Stainless Steel, Add</i><br><i>For 24 Gauge, Add</i><br><i>For 22 Gauge, Add</i><br><i>For 20 Gauge, Add</i> | 23.00<br>2.90<br>1.35<br>-0.40<br>7.22<br>6.27<br>12.55<br>18.82 | 3.69                    |



|              |  |
|--------------|--|
| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 07 71 23 00-0272        | LF  |     | 5" Diameter, 26 Gauge, Round Stainless Steel Downspout .....                                  | 33.03                  | 3.69                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 3.90                   |                      |
|                         |     |     | <i>For &gt;100 To 250', Add</i>   | 1.85                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.40                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>   | 11.04                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 9.58                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 19.17                  |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 28.75                  |                      |
| <b>07 71 23 00-0273</b> |     |     | <b>Rectangular Stainless Steel Downspouts (07 71 23 00-0268)</b>                              |                        |                      |
| 07 71 23 00-0274        | LF  |     | 2" x 3", 26 Gauge, Rectangular Stainless Steel Downspout .....                                | 18.08                  | 3.69                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 2.41                   |                      |
|                         |     |     | <i>For &gt;100 To 250', Add</i>   | 1.10                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.40                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>   | 5.35                   |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 4.65                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 9.30                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 13.95                  |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 23.39                  |                      |
| 07 71 23 00-0275        | LF  |     | 3" x 4", 26 Gauge, Rectangular Stainless Steel Downspout .....                                | 23.80                  | 3.69                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 2.98                   |                      |
|                         |     |     | <i>For &gt;100 To 250', Add</i>   | 1.39                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.40                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>   | 7.53                   |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 6.54                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 13.07                  |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 19.61                  |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 32.88                  |                      |
| 07 71 23 00-0276        | LF  |     | 4" x 5", 26 Gauge, Rectangular Stainless Steel Downspout .....                                | 30.48                  | 3.69                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 3.65                   |                      |
|                         |     |     | <i>For &gt;100 To 250', Add</i>   | 1.72                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.40                  |                      |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>   | 10.07                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 8.74                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 17.48                  |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 26.23                  |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 43.97                  |                      |
| <b>07 71 23 00-0277</b> |     |     | <b>Stainless Steel Devices (07 71 23 00-0228)</b>   |                        |                      |
| 07 71 23 00-0278        | EA  |     | Thru-Wall Stainless Steel Scupper Outlet .....  | 295.20                 | 34.56                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>   | 68.41                  |                      |
| 07 71 23 00-0279        | EA  |     | Stainless Steel Leader/Conductor Head .....   | 443.01                 | 34.56                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i>   | 139.16                 |                      |
| <b>07 71 23 00-0280</b> |     |     | <b>Vinyl Gutters And Downspouts (07 71 23)</b>  |                        |                      |
| <b>07 71 23 00-0281</b> |     |     | <b>Vinyl Gutters (07 71 23 00-0280)</b>   |                        |                      |
|                         |     |     | Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts. |                        |                      |
| <b>07 71 23 00-0282</b> |     |     | <b>K-Style Vinyl Gutters (07 71 23 00-0281)</b>   |                        |                      |
| 07 71 23 00-0283        | LF  |     | 4", K-Style Vinyl Gutter .....  | 13.02                  | 3.84                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 2.26                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>  | 0.97                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.64                  |                      |
| 07 71 23 00-0284        | LF  |     | 5", K-Style Vinyl Gutter .....  | 16.43                  | 3.84                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 2.60                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>  | 1.14                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.64                  |                      |
| <b>07 71 23 00-0285</b> |     |     | <b>Half Round Vinyl Gutters (07 71 23 00-0281)</b>  |                        |                      |
| 07 71 23 00-0286        | LF  |     | 4", Half Round Vinyl Gutter .....   | 13.41                  | 3.84                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 2.30                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>  | 0.99                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.64                  |                      |
| 07 71 23 00-0287        | LF  |     | 5", Half Round Vinyl Gutter .....   | 14.03                  | 3.84                 |
|                         |     |     | <i>For Up To 100', Add</i>  | 2.36                   |                      |
|                         |     |     | <i>For &gt;100' To 250', Add</i>  | 1.02                   |                      |
|                         |     |     | <i>For &gt;1,000', Deduct</i>   | -0.64                  |                      |
| <b>07 71 23 00-0288</b> |     |     | <b>Vinyl Gutter End Caps (07 71 23 00-0288)</b>   |                        |                      |
| <b>07 71 23 00-0289</b> |     |     | <b>K-Style, Vinyl Gutter End Caps (07 71 23 00-0288)</b>                                      |                        |                      |
| 07 71 23 00-0290        | EA  |     | 4", K-Style Vinyl Gutter End Cap .....  | 7.88                   |                      |
| 07 71 23 00-0291        | EA  |     | 5", K-Style Vinyl Gutter End Cap .....  | 10.71                  |                      |
| <b>07 71 23 00-0292</b> |     |     | <b>Half Round, Vinyl Gutter End Caps (07 71 23 00-0288)</b>                                   |                        |                      |
| 07 71 23 00-0293        | EA  |     | 4", Half Round Vinyl Gutter End Cap .....   | 8.93                   |                      |
| 07 71 23 00-0294        | EA  |     | 5", Half Round Vinyl Gutter End Cap .....   | 8.46                   |                      |



|                  | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|------------------|-----|-----|--|------------------------|----------------------|
| 07 71 23 00-0295 |                  |     |     | <b>Vinyl Gutter Miters</b> (07 71 23 00-0280)<br>Note: Inside or outside miters.                             |                        |                      |
| 07 71 23 00-0296 |                  |     |     | <b>K-Style, Vinyl Gutter Miters</b> (07 71 23 00-0295)   |                        |                      |
|                  | 07 71 23 00-0297 | EA  |     | 4", K-Style Vinyl Gutter Miter .....   | 19.19                  |                      |
|                  | 07 71 23 00-0298 | EA  |     | 5", K-Style Vinyl Gutter Miter .....   | 28.32                  |                      |
| 07 71 23 00-0299 |                  |     |     | <b>Half Round, Vinyl Gutter Miters</b> (07 71 23 00-0295)  |                        |                      |
|                  | 07 71 23 00-0300 | EA  |     | 4", Half Round Vinyl Gutter Miter .....  | 19.19                  |                      |
|                  | 07 71 23 00-0301 | EA  |     | 5", Half Round Vinyl Gutter Miter .....  | 20.76                  |                      |
| 07 71 23 00-0302 |                  |     |     | <b>Vinyl Downspouts</b> (07 71 23 00-0280)<br>Note: Includes elbows, hangers and fasteners.                  |                        |                      |
| 07 71 23 00-0303 |                  |     |     | <b>Round Vinyl Downspouts</b> (07 71 23 00-0302)   |                        |                      |
|                  | 07 71 23 00-0304 | LF  |     | 2-1/2" Diameter, Round Vinyl Downspout.....  | 8.51                   | 3.69                 |
|                  |                  |     |     | For Up To 100', Add  | 1.45                   |                      |
|                  |                  |     |     | For >100 To 250', Add  | 0.63                   |                      |
|                  |                  |     |     | For >1,000', Deduct  | -0.40                  |                      |
|                  | 07 71 23 00-0305 | LF  |     | 3" Diameter, Round Vinyl Downspout.....  | 8.84                   | 3.69                 |
|                  |                  |     |     | For Up To 100', Add  | 1.48                   |                      |
|                  |                  |     |     | For >100 To 250', Add  | 0.64                   |                      |
|                  |                  |     |     | For >1,000', Deduct  | -0.40                  |                      |
| 07 71 23 00-0306 |                  |     |     | <b>Square Vinyl Downspouts</b> (07 71 23 00-0302)  |                        |                      |
|                  | 07 71 23 00-0307 | LF  |     | 2-1/2", Square Vinyl Downspout.....  | 8.37                   | 3.69                 |
|                  |                  |     |     | For Up To 100', Add  | 1.44                   |                      |
|                  |                  |     |     | For >100 To 250', Add  | 0.62                   |                      |
|                  |                  |     |     | For >1,000', Deduct  | -0.40                  |                      |
| 07 71 23 00-0308 |                  |     |     | <b>Rectangular Vinyl Downspouts</b> (07 71 23 00-0302)   |                        |                      |
|                  | 07 71 23 00-0309 | LF  |     | 2" x 3", Rectangular Vinyl Downspout .....   | 10.51                  | 3.69                 |
|                  |                  |     |     | For Up To 100', Add  | 1.65                   |                      |
|                  |                  |     |     | For >100 To 250', Add  | 0.73                   |                      |
|                  |                  |     |     | For >1,000', Deduct  | -0.40                  |                      |
| 07 71 23 00-0310 |                  |     |     | <b>Gutter And Downspout Boots</b> (07 71 23)   |                        |                      |
| 07 71 23 00-0311 |                  |     |     | <b>Cast Iron Roof Drainage Downspout Boots</b> (07 71 23 00-0310)  |                        |                      |
|                  | 07 71 23 00-0312 | EA  |     | 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....  | 336.70                 | 5.53                 |
|                  | 07 71 23 00-0313 | EA  |     | 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....  | 438.76                 | 5.53                 |
|                  | 07 71 23 00-0314 | EA  |     | 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot.....  | 523.62                 | 5.53                 |
| 07 71 23 00-0315 |                  |     |     | <b>Cast Iron Roof Drainage Downspout Boots With Cleanouts</b> (07 71 23 00-0310)                             |                        |                      |
|                  | 07 71 23 00-0316 | EA  |     | 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout .....                               | 581.39                 | 5.53                 |
|                  | 07 71 23 00-0317 | EA  |     | 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout .....                               | 710.17                 | 5.53                 |
|                  | 07 71 23 00-0318 | EA  |     | 5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout .....                               | 1,288.48               | 5.53                 |
| 07 71 23 00-0319 |                  |     |     | <b>Wall Mounted Downspout Covers With Hinged Perforated Cover</b> (07 71 23)                                 |                        |                      |
|                  | 07 71 23 00-0320 | EA  |     | 3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03).....  | 1,175.54               | 38.06                |
|                  |                  |     |     | For Polished Brass Finish (-PB), Add   | 109.94                 |                      |
|                  |                  |     |     | For Chrome Plated Finish (-CP), Add  | 164.91                 |                      |
|                  |                  |     |     | For Vandal Proof (-U), Add   | 54.97                  |                      |
|                  | 07 71 23 00-0321 | EA  |     | 4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04).....  | 1,200.91               | 50.75                |
|                  |                  |     |     | For Polished Brass Finish (-PB), Add   | 109.94                 |                      |
|                  |                  |     |     | For Chrome Plated Finish (-CP), Add  | 164.91                 |                      |
|                  |                  |     |     | For Vandal Proof (-U), Add   | 54.97                  |                      |
|                  | 07 71 23 00-0322 | EA  |     | 6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06).....  | 1,284.80               | 61.84                |
|                  |                  |     |     | For Polished Brass Finish (-PB), Add   | 116.11                 |                      |
|                  |                  |     |     | For Chrome Plated Finish (-CP), Add  | 174.17                 |                      |
|                  |                  |     |     | For Vandal Proof (-U), Add   | 58.06                  |                      |
|                  | 07 71 23 00-0323 | EA  |     | 8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08).....  | 1,373.16               | 78.08                |
|                  |                  |     |     | For Polished Brass Finish (-PB), Add   | 121.70                 |                      |
|                  |                  |     |     | For Chrome Plated Finish (-CP), Add  | 182.55                 |                      |
|                  |                  |     |     | For Vandal Proof (-U), Add   | 60.85                  |                      |
|                  | 07 71 23 00-0324 | EA  |     | 10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10)..... | 1,480.16               | 96.19                |
|                  |                  |     |     | For Polished Brass Finish (-PB), Add   | 128.78                 |                      |
|                  |                  |     |     | For Chrome Plated Finish (-CP), Add  | 193.17                 |                      |
|                  |                  |     |     | For Vandal Proof (-U), Add   | 64.39                  |                      |
|                  | 07 71 23 00-0325 | EA  |     | 12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12)..... | 1,634.59               | 134.28               |
|                  |                  |     |     | For Polished Brass Finish (-PB), Add   | 136.60                 |                      |
|                  |                  |     |     | For Chrome Plated Finish (-CP), Add  | 204.90                 |                      |
|                  |                  |     |     | For Vandal Proof (-U), Add   | 68.30                  |                      |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 71</b> | <b>Roof Specialties</b>                          |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 07 71 23 00-0326        | EA  |     | 15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15)..... | 1,816.68               | 186.75               |
|                         |     |     | For Polished Brass Finish (-PB), Add   | 144.32                 |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 216.48                 |                      |
|                         |     |     | For Vandal Proof (-U), Add   | 72.16                  |                      |
| <b>07 71 23 00-0327</b> |     |     | <b>Wall Mounted Downspout Nozzle (07 71 23)</b>  |                        |                      |
| 07 71 23 00-0328        | EA  |     | 3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03).....                                   | 313.47                 | 38.06                |
|                         |     |     | For Nickel Bronze Finish (-NB), Add  | 166.14                 |                      |
|                         |     |     | For Polished Bronze Finish (-PB), Add  | 130.54                 |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 211.23                 |                      |
| 07 71 23 00-0329        | EA  |     | 4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04).....                                   | 338.84                 | 50.75                |
|                         |     |     | For Nickel Bronze Finish (-NB), Add  | 166.14                 |                      |
|                         |     |     | For Polished Bronze Finish (-PB), Add  | 130.54                 |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 211.23                 |                      |
| 07 71 23 00-0330        | EA  |     | 6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06).....                                   | 686.67                 | 61.84                |
|                         |     |     | For Nickel Bronze Finish (-NB), Add  | 168.90                 |                      |
|                         |     |     | For Polished Bronze Finish (-PB), Add  | 95.71                  |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 247.72                 |                      |
| 07 71 23 00-0331        | EA  |     | 8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08).....                                   | 1,010.77               | 78.08                |
|                         |     |     | For Nickel Bronze Finish (-NB), Add  | 145.29                 |                      |
|                         |     |     | For Polished Bronze Finish (-PB), Add  | 111.10                 |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 247.84                 |                      |
| 07 71 23 00-0332        | EA  |     | 10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10).....                                  | 1,301.90               | 96.19                |
|                         |     |     | For Nickel Bronze Finish (-NB), Add  | 188.62                 |                      |
|                         |     |     | For Polished Bronze Finish (-PB), Add  | 144.24                 |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 321.76                 |                      |
| 07 71 23 00-0333        | EA  |     | 12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12).....                                  | 1,664.39               | 134.28               |
|                         |     |     | For Nickel Bronze Finish (-NB), Add  | 237.29                 |                      |
|                         |     |     | For Polished Bronze Finish (-PB), Add  | 181.46                 |                      |
|                         |     |     | For Chrome Plated Finish (-CP), Add  | 404.79                 |                      |
| <b>07 71 23 00-0334</b> |     |     | <b>Leaf Guards And Cleaning (07 71 23)</b>   |                        |                      |
| 07 71 23 00-0335        | LF  |     | Aluminum Mesh Gutter Leaf Guard ..... 4.08   | 4.08                   | 1.02                 |
|                         |     |     | For Up To 100', Add  | 0.71                   |                      |
|                         |     |     | For >100' To 250', Add   | 0.31                   |                      |
|                         |     |     | For >1,000', Deduct  | -0.20                  |                      |
| 07 71 23 00-0336        | LF  |     | Vinyl Mesh Gutter Leaf Guard ..... 3.21  | 3.21                   | 1.02                 |
|                         |     |     | For Up To 100', Add  | 0.62                   |                      |
|                         |     |     | For >100' To 250', Add   | 0.26                   |                      |
|                         |     |     | For >1,000', Deduct  | -0.20                  |                      |
| 07 71 23 00-0337        | LF  |     | 6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire ..... 17.05                              | 17.05                  | 1.27                 |
|                         |     |     | For Up To 100', Add  | 2.09                   |                      |
|                         |     |     | For >100' To 250', Add   | 0.98                   |                      |
|                         |     |     | For >1,000', Deduct  | -0.26                  |                      |
| 07 71 23 00-0338        | LF  |     | 9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire ..... 24.32                              | 24.32                  | 1.27                 |
|                         |     |     | For Up To 100', Add  | 2.82                   |                      |
|                         |     |     | For >100' To 250', Add   | 1.35                   |                      |
|                         |     |     | For >1,000', Deduct  | -0.26                  |                      |
| 07 71 23 00-0339        | LF  |     | 6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh ..... 12.98                                      | 12.98                  | 1.27                 |
|                         |     |     | For Up To 100', Add  | 1.60                   |                      |
|                         |     |     | For >100' To 250', Add   | 0.75                   |                      |
|                         |     |     | For >1,000', Deduct  | -0.20                  |                      |
| 07 71 23 00-0340        | LF  |     | 9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh ..... 19.95                                      | 19.95                  | 1.27                 |
|                         |     |     | For Up To 100', Add  | 2.30                   |                      |
|                         |     |     | For >100' To 250', Add   | 1.10                   |                      |
|                         |     |     | For >1,000', Deduct  | -0.20                  |                      |
| 07 71 23 00-0341        | EA  |     | Cleanout Roof Drain ..... 160.22   | 160.22                 |                      |
|                         |     |     | Note: Includes removing dome and flushing.   |                        |                      |
| 07 71 23 00-0342        | LF  |     | Cleanout Roof Gutters And Downspouts ..... 1.87  | 1.87                   |                      |
| <b>07 71 26</b>         |     |     | <b>Reglets (07 71)</b>   |                        |                      |
| 07 71 26 00-0001        |     |     | Counter Flashing With Reglet (07 71 26)  |                        |                      |
|                         |     |     | Note: Includes reglet cut.   |                        |                      |
| 07 71 26 00-0002        |     |     | Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)   |                        |                      |
| 07 71 26 00-0003        |     |     | Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)   |                        |                      |
| 07 71 26 00-0004        | LF  |     | 28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet ..... 16.81                          | 16.81                  | 5.22                 |
| 07 71 26 00-0005        | LF  |     | 26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet ..... 16.99                          | 16.99                  | 5.22                 |
| 07 71 26 00-0006        | LF  |     | 24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet ..... 17.29                          | 17.29                  | 5.22                 |
| 07 71 26 00-0007        | LF  |     | 22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet ..... 18.45                          | 18.45                  | 5.22                 |
| 07 71 26 00-0008        | LF  |     | 20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet ..... 19.11                          | 19.11                  | 5.22                 |
| 07 71 26 00-0009        | LF  |     | 18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet ..... 19.87                          | 19.87                  | 5.22                 |
| <b>07 71 26 00-0010</b> |     |     | <b>KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)</b>                   |                        |                      |
| 07 71 26 00-0011        | LF  |     | 28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet..... 19.68        | 19.68                  | 5.22                 |
| 07 71 26 00-0012        | LF  |     | 26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet..... 19.94        | 19.94                  | 5.22                 |
| 07 71 26 00-0013        | LF  |     | 24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet..... 20.38        | 20.38                  | 5.22                 |
| 07 71 26 00-0014        | LF  |     | 22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet..... 22.06        | 22.06                  | 5.22                 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 71 26 00-0015 LF 20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....  | 23.01                     | 5.22                    |
| 07 71 26 00-0016 LF 18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....  | 24.11                     | 5.22                    |
| <b>07 71 26 00-0017 Aluminum Counter Flashing With Reglet</b> (07 71 26 00-0001)   |                           |                         |
| <b>07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet</b> (07 71 26 00-0017)  |                           |                         |
| 07 71 26 00-0019 LF 0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....  | 15.33                     | 5.22                    |
| 07 71 26 00-0020 LF 0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....  | 16.10                     | 5.22                    |
| 07 71 26 00-0021 LF 0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....  | 16.88                     | 5.22                    |
| 07 71 26 00-0022 LF 0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....  | 17.43                     | 5.22                    |
| 07 71 26 00-0023 LF 0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....  | 18.68                     | 5.22                    |
| 07 71 26 00-0024 LF 0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....  | 20.49                     | 5.22                    |
| <b>07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet</b> (07 71 26 00-0017)  |                           |                         |
| 07 71 26 00-0026 LF 0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....   | 13.56                     | 5.22                    |
| 07 71 26 00-0027 LF 0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....   | 14.05                     | 5.22                    |
| 07 71 26 00-0028 LF 0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....   | 14.55                     | 5.22                    |
| 07 71 26 00-0029 LF 0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....   | 14.90                     | 5.22                    |
| 07 71 26 00-0030 LF 0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....   | 15.70                     | 5.22                    |
| 07 71 26 00-0031 LF 0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....   | 16.85                     | 5.22                    |
| <b>07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet</b> (07 71 26 00-0017)  |                           |                         |
| 07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....   | 14.97                     | 5.22                    |
| 07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....   | 15.68                     | 5.22                    |
| 07 71 26 00-0035 LF 0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....   | 16.40                     | 5.22                    |
| 07 71 26 00-0036 LF 0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....   | 16.92                     | 5.22                    |
| 07 71 26 00-0037 LF 0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....   | 18.07                     | 5.22                    |
| 07 71 26 00-0038 LF 0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....   | 19.74                     | 5.22                    |
| <b>07 71 26 00-0039 Stainless Steel Counter Flashing With Reglet</b> (07 71 26 00-0001)  |                           |                         |
| <b>07 71 26 00-0040 Stainless Steel Counter Flashing With Reglet</b> (07 71 26 00-0039)  |                           |                         |
| 07 71 26 00-0041 LF 24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....  | 20.18                     | 5.22                    |
| 07 71 26 00-0042 LF 22 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....  | 21.48                     | 5.22                    |
| 07 71 26 00-0043 LF 20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....  | 21.91                     | 5.22                    |
| <b>07 71 26 00-0044 Copper Counter Flashing With Reglet</b> (07 71 26 00-0001)   |                           |                         |
| <b>07 71 26 00-0045 Copper Counter Flashing With Reglet</b> (07 71 26 00-0044)   |                           |                         |
| 07 71 26 00-0046 LF 16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....   | 72.26                     | 5.22                    |
| <b>07 72 Roof Accessories</b> (07 70)  |                           |                         |
| <b>07 72 13 Manufactured Curbs</b> (07 72)   |                           |                         |
| <b>07 72 13 00-0001 Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13)  |                           |                         |
| Note: Includes fasteners and sealants. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.  |                           |                         |
| <b>07 72 13 00-0002 Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0001)  |                           |                         |
| Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. |                           |                         |
| <b>07 72 13 00-0003 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0002)  |                           |                         |
| <b>07 72 13 00-0004 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0003)   |                           |                         |
| 07 72 13 00-0005 EA 26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 964.47                    | 242.04                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   |                           |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  |                           |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   |                           |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  |                           |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  |                           |                         |
| 07 72 13 00-0006 EA 26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 979.76                    | 242.04                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   |                           |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  |                           |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   |                           |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  |                           |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  |                           |                         |
| 07 72 13 00-0007 EA 26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,063.04                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   |                           |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  |                           |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   |                           |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  |                           |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  |                           |                         |

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| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 72</b> | <b>Roof Accessories</b>                          |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 72 13 00-0008 EA 26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,121.67                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 78.13                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 190.30                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -60.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 35.94                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 50.87                     |                         |
| 07 72 13 00-0009 EA 26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,164.99                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 82.46                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 198.96                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | 19.52                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 124.06                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 136.86                    |                         |
| 07 72 13 00-0010 EA 26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,413.94                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 103.58                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 244.97                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -99.64                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | -3.65                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 36.89                     |                         |
| 07 72 13 00-0011 EA 38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 984.86                    | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 68.23                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 166.72                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | 11.20                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 96.54                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 134.94                    |                         |
| 07 72 13 00-0012 EA 38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,065.59                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 72.52                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 179.08                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -57.32                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 32.27                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 68.54                     |                         |
| 07 72 13 00-0013 EA 38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,098.73                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 75.84                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 185.71                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -70.97                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 22.88                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 52.75                     |                         |
| 07 72 13 00-0014 EA 38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,111.47                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 77.11                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 188.26                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | 19.84                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 122.25                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 149.98                    |                         |
| 07 72 13 00-0015 EA 38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,373.17                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 99.50                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 236.82                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | 25.60                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 138.68                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 181.35                    |                         |
| 07 72 13 00-0016 EA 38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,502.32                  | 332.81                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 108.63                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 258.86                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | 31.36                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 161.51                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 212.71                    |                         |
| 07 72 13 00-0017 EA 50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,182.83                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 84.25                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 202.53                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -73.72                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 20.15                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 43.62                     |                         |
| 07 72 13 00-0018 EA 50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,291.61                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 91.34                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 220.50                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -88.72                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | -1.26                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 41.41                     |                         |
| 07 72 13 00-0019 EA 50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,319.64                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 94.15                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 226.11                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -105.10                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | -30.43                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 42.09                     |                         |
| 07 72 13 00-0020 EA 50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,448.80                  | 332.81                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 103.28                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 248.16                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | -122.85                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | -26.84                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 41.41                     |                         |
| 07 72 13 00-0021 EA 51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,555.02                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 110.12                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 265.62                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add  | 32.96                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add   | 152.44                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 205.78                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 72 13 00-0022 EA 51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,681.63                  | 393.31                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 119.00                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 287.16                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -169.28                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -34.87                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 37.67                     |                         |
| 07 72 13 00-0023 EA 62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,319.64                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 94.15                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 226.11                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 26.24                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 96.65                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 177.72                    |                         |
| 07 72 13 00-0024 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,420.76                  | 332.81                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 100.48                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 242.55                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -128.31                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -23.77                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 42.35                     |                         |
| 07 72 13 00-0025 EA 62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,552.47                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 109.86                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 265.11                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -166.55                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -62.01                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | -0.12                     |                         |
| 07 72 13 00-0026 EA 62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,577.96                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 112.41                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 270.21                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 39.04                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 143.58                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 250.26                    |                         |
| 07 72 13 00-0027 EA 62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,709.67                  | 393.31                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 121.80                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 292.77                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -210.22                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -103.56                   |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 32.98                     |                         |
| <b>07 72 13 00-0028 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b>  |                           |                         |
| <small>(07 72 13 00-0003)</small>   |                           |                         |
| 07 72 13 00-0029 EA 26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 997.60                    | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 69.51                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 169.27                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -30.03                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 14.77                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 38.24                     |                         |
| 07 72 13 00-0030 EA 26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,005.25                  | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 70.27                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 170.80                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -36.86                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 22.88                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 44.21                     |                         |
| 07 72 13 00-0031 EA 26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,088.53                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 74.82                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 183.67                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -45.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 29.62                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 44.56                     |                         |
| 07 72 13 00-0032 EA 26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,154.80                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 81.44                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 196.92                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -60.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 35.94                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 50.87                     |                         |
| 07 72 13 00-0033 EA 26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,203.22                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 86.29                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 206.61                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.52                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 124.06                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 136.86                    |                         |
| 07 72 13 00-0034 EA 26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....       | 1,444.53                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 106.63                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 251.09                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -99.64                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -3.65                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 36.89                     |                         |
| 07 72 13 00-0035 EA 38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,007.79                  | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 70.52                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 171.30                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 11.20                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 96.54                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 134.94                    |                         |

**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 72 13 00-0036 | EA  |     | 38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,134.41               | 272.29               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 79.40                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 192.85                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -57.32                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 32.27                  |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 68.54                  |                      |
| 07 72 13 00-0037 | EA  |     | 38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,185.38               | 272.29               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 84.50                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 203.04                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -70.97                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 22.88                  |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 52.75                  |                      |
| 07 72 13 00-0038 | EA  |     | 38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,244.00               | 272.29               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 90.36                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 214.76                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 19.84                  |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 122.25                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 149.98                 |                      |
| 07 72 13 00-0039 | EA  |     | 38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,413.94               | 302.55               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 103.58                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 244.97                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 25.60                  |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 138.68                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 181.35                 |                      |
| 07 72 13 00-0040 | EA  |     | 38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,553.29               | 332.81               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 113.73                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 269.06                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 31.36                  |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 161.51                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 212.71                 |                      |
| 07 72 13 00-0041 | EA  |     | 50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,213.42               | 272.29               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 87.31                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 208.65                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -73.72                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 20.15                  |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 43.62                  |                      |
| 07 72 13 00-0042 | EA  |     | 50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,317.09               | 302.55               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 93.89                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 225.60                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -88.72                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -1.26                  |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 41.41                  |                      |
| 07 72 13 00-0043 | EA  |     | 50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,357.87               | 302.55               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 97.97                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 233.76                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -105.10                |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -30.43                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 42.09                  |                      |
| 07 72 13 00-0044 | EA  |     | 50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,489.57               | 332.81               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 107.36                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 256.31                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -122.85                |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -26.84                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 41.41                  |                      |
| 07 72 13 00-0045 | EA  |     | 51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,603.45               | 363.07               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 114.96                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 275.31                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 32.96                  |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 152.44                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 205.78                 |                      |
| 07 72 13 00-0046 | EA  |     | 51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,737.71               | 393.31               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 124.61                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 298.38                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -169.28                |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -34.87                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 37.67                  |                      |
| 07 72 13 00-0047 | EA  |     | 62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,357.87               | 302.55               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 97.97                  |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 233.76                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 26.24                  |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 96.65                  |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 177.72                 |                      |
| 07 72 13 00-0048 | EA  |     | 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,461.54               | 332.81               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 104.55                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 250.71                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -128.31                |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -23.77                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 42.35                  |                      |
| 07 72 13 00-0049 | EA  |     | 62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,595.80               | 363.07               |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 114.20                 |                      |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 273.78                 |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -166.55                |                      |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -62.01                 |                      |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | -0.12                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 72 13 00-0050 EA 62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,628.93                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 117.51                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 280.40                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 39.04                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 143.58                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 250.26                    |                         |
| 07 72 13 00-0051 EA 62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,765.74                  | 393.31                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 127.41                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 303.98                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -210.22                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -103.56                   |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 32.98                     |                         |
| <b>07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0003)</b>                   |                           |                         |
| 07 72 13 00-0053 EA 26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,015.44                  | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 71.29                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 172.83                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -30.03                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 14.77                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 38.24                     |                         |
| 07 72 13 00-0054 EA 26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,023.09                  | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 72.05                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 174.36                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -36.86                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 22.88                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 44.21                     |                         |
| 07 72 13 00-0055 EA 26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,101.28                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 76.09                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 186.22                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -45.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 29.62                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 44.56                     |                         |
| 07 72 13 00-0056 EA 26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,175.19                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 83.48                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 201.00                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -60.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 35.94                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 50.87                     |                         |
| 07 72 13 00-0057 EA 26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,231.26                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 89.09                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 212.22                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.52                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 124.06                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 136.86                    |                         |
| 07 72 13 00-0058 EA 26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,480.21                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 110.20                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 258.22                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -99.64                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -3.65                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 36.89                     |                         |
| 07 72 13 00-0059 EA 38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,023.09                  | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 72.05                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 174.36                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 11.20                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 96.54                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 134.94                    |                         |
| 07 72 13 00-0060 EA 38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,101.28                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 76.09                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 186.22                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -57.32                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 32.27                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 68.54                     |                         |
| 07 72 13 00-0061 EA 38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,231.26                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 89.09                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 212.22                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -70.97                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 22.88                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 52.75                     |                         |
| 07 72 13 00-0062 EA 38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,292.43                  | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 95.21                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 224.45                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.84                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 122.25                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 149.98                    |                         |
| 07 72 13 00-0063 EA 38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,444.53                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 106.63                    |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 251.09                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 25.60                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 138.68                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 181.35                    |                         |



**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 07 72 13 00-0064 | EA  | 38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,586.43                  | 332.81                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 117.04                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 275.69                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 31.36                     |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 161.51                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 212.71                    |                         |
| 07 72 13 00-0065 | EA  | 50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,233.81                  | 272.29                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 89.34                     |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 212.73                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -73.72                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 20.15                     |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 43.62                     |                         |
| 07 72 13 00-0066 | EA  | 50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,249.22                  | 302.55                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 87.10                     |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 212.03                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -88.72                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -1.26                     |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 41.41                     |                         |
| 07 72 13 00-0067 | EA  | 50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,383.36                  | 302.55                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 100.52                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 238.85                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -105.10                   |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -30.43                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 42.09                     |                         |
| 07 72 13 00-0068 | EA  | 50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,520.16                  | 332.81                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 110.42                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 262.43                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -122.85                   |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -26.84                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 41.41                     |                         |
| 07 72 13 00-0069 | EA  | 51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,634.03                  | 363.07                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 118.02                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 281.42                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 32.96                     |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 152.44                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 205.78                    |                         |
| 07 72 13 00-0070 | EA  | 51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,773.39                  | 393.31                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 128.17                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 305.51                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -169.28                   |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -34.87                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 37.67                     |                         |
| 07 72 13 00-0071 | EA  | 62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,383.36                  | 302.55                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 100.52                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 238.85                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 26.24                     |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 96.65                     |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 177.72                    |                         |
| 07 72 13 00-0072 | EA  | 62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,489.57                  | 332.81                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 107.36                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 256.31                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -128.31                   |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -23.77                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 42.35                     |                         |
| 07 72 13 00-0073 | EA  | 62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,628.93                  | 363.07                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 117.51                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 280.40                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -166.55                   |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -62.01                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | -0.12                     |                         |
| 07 72 13 00-0074 | EA  | 62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....         | 1,662.07                  | 363.07                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 120.82                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 287.03                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | 39.04                     |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | 143.58                    |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 250.26                    |                         |
| 07 72 13 00-0075 | EA  | 62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....        | 1,803.97                  | 393.31                  |
|                  |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 131.23                    |                         |
|                  |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 311.63                    |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>                                   | -210.22                   |                         |
|                  |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>                              | -103.56                   |                         |
|                  |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 32.98                     |                         |

07 72 13 00-0076 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)

07 72 13 00-0077 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 72 13 00-0078 EA 26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 936.43                    | 242.04                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 63.39                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 157.03                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -30.03                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 14.77                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 38.24                     |                         |
| 07 72 13 00-0079 EA 26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 969.56                    | 242.04                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 66.70                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 163.66                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -36.86                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 22.88                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 44.21                     |                         |
| 07 72 13 00-0080 EA 26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,108.92                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 76.86                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 187.75                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -45.05                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 29.62                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 44.56                     |                         |
| 07 72 13 00-0081 EA 26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,185.38                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 84.50                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 203.04                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -60.05                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 35.94                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 50.87                     |                         |
| 07 72 13 00-0082 EA 26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,241.45                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 90.11                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 214.25                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | 19.52                     |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 124.06                    |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 136.86                    |                         |
| 07 72 13 00-0083 EA 26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,520.99                  | 302.55                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 114.28                    |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 266.38                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -99.64                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | -3.65                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 36.89                     |                         |
| 07 72 13 00-0084 EA 38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,030.73                  | 242.04                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 72.82                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 175.89                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | 11.20                     |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 96.54                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 134.94                    |                         |
| 07 72 13 00-0085 EA 38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,129.31                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 78.89                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 191.83                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -57.32                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 32.27                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 68.54                     |                         |
| 07 72 13 00-0086 EA 38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,154.80                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 81.44                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 196.92                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -70.97                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 22.88                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 52.75                     |                         |
| 07 72 13 00-0087 EA 38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,177.74                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 83.74                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 201.51                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | 19.84                     |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 122.25                    |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 149.98                    |                         |
| 07 72 13 00-0088 EA 38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,459.82                  | 302.55                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 108.16                    |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 254.15                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | 25.60                     |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 138.68                    |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 181.35                    |                         |
| 07 72 13 00-0089 EA 38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,604.27                  | 332.81                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 118.83                    |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 279.25                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | 31.36                     |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 161.51                    |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 212.71                    |                         |
| 07 72 13 00-0090 EA 50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,244.00                  | 272.29                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 90.36                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 214.76                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -73.72                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | 20.15                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 43.62                     |                         |
| 07 72 13 00-0091 EA 50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,355.32                  | 302.55                  |
| <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>   | 97.71                     |                         |
| <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>  | 233.25                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>   | -88.72                    |                         |
| <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>  | -1.26                     |                         |
| <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>  | 41.41                     |                         |

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Lists various roof accessories like insulated galvanized steel curb with detailed descriptions and costs.



**Thermal And Moisture Protection 07**  
**Roof and Wall Specialties and Accessories 07 70**  
**Roof Accessories 07 72**

| MINOR CSI UOM DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|------------------------|----------------------|
| 07 72 13 00-0106 EA 26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,300.07               | 272.29               |
| For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add  | 95.97                  |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 225.98                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.52                  |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 124.06                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 136.86                 |                      |
| 07 72 13 00-0107 EA 26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,531.18               | 302.55               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 115.30                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 268.42                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -99.64                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -3.65                  |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 36.89                  |                      |
| 07 72 13 00-0108 EA 38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,063.87               | 242.04               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 76.13                  |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 182.52                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 11.20                  |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 96.54                  |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 134.94                 |                      |
| 07 72 13 00-0109 EA 38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,170.09               | 272.29               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 82.97                  |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 199.98                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -57.32                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 32.27                  |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 68.54                  |                      |
| 07 72 13 00-0110 EA 38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,203.22               | 272.29               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 86.29                  |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 206.61                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -70.97                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 22.88                  |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 52.75                  |                      |
| 07 72 13 00-0111 EA 38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,233.81               | 272.29               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 89.34                  |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 212.73                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.84                  |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 122.25                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 149.98                 |                      |
| 07 72 13 00-0112 EA 38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,520.99               | 302.55               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 114.28                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 266.38                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 25.60                  |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 138.68                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 181.35                 |                      |
| 07 72 13 00-0113 EA 38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,678.18               | 332.81               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 126.22                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 294.04                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 31.36                  |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 161.51                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 212.71                 |                      |
| 07 72 13 00-0114 EA 50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,289.88               | 272.29               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 94.95                  |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 223.94                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -73.72                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 20.15                  |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 43.62                  |                      |
| 07 72 13 00-0115 EA 50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,406.30               | 302.55               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 102.81                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 243.44                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -88.72                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -1.26                  |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 41.41                  |                      |
| 07 72 13 00-0116 EA 50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,454.72               | 302.55               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 107.65                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 253.13                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -105.10                |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -30.43                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 42.09                  |                      |
| 07 72 13 00-0117 EA 50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,596.62               | 332.81               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 118.06                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 277.72                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -122.85                |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -26.84                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 41.41                  |                      |
| 07 72 13 00-0118 EA 51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....  | 1,720.69               | 363.07               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 126.69                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 298.76                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 32.96                  |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | 152.44                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 205.78                 |                      |
| 07 72 13 00-0119 EA 51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... | 1,872.79               | 393.31               |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 138.11                 |                      |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 325.39                 |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -169.28                |                      |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add  | -34.87                 |                      |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 37.67                  |                      |

**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                                      | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|---|----------------------|
| 07 72 13 00-0120        | EA  |     | 62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,454.72<br>107.65<br>253.13<br>26.24<br>96.65<br>177.72    | 302.55               |
| 07 72 13 00-0121        | EA  |     | 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add | 1,568.58<br>115.26<br>272.12<br>-128.31<br>-23.77<br>42.35  | 332.81               |
| 07 72 13 00-0122        | EA  |     | 62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,715.59<br>126.18<br>297.74<br>-166.55<br>-62.01<br>-0.12  | 363.07               |
| 07 72 13 00-0123        | EA  |     | 62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,753.82<br>130.00<br>305.38<br>39.04<br>143.58<br>250.26   | 363.07               |
| 07 72 13 00-0124        | EA  |     | 62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add        | 1,911.02<br>141.94<br>333.04<br>-210.22<br>-103.56<br>32.98 | 393.31               |
| <b>07 72 13 00-0125</b> |     |     | <b>14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0076)</small>   |   |                      |
| 07 72 13 00-0126        | EA  |     | 26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 977.21<br>67.47<br>165.19<br>-30.03<br>14.77<br>38.24       | 242.04               |
| 07 72 13 00-0127        | EA  |     | 26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,017.99<br>71.54<br>173.34<br>-36.86<br>22.88<br>44.21     | 242.04               |
| 07 72 13 00-0128        | EA  |     | 26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,170.09<br>82.97<br>199.98<br>-45.05<br>29.62<br>44.56     | 272.29               |
| 07 72 13 00-0129        | EA  |     | 26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,261.84<br>92.15<br>218.33<br>-60.05<br>35.94<br>50.87     | 272.29               |
| 07 72 13 00-0130        | EA  |     | 26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,338.30<br>99.79<br>233.62<br>19.52<br>124.06<br>136.86    | 272.29               |
| 07 72 13 00-0131        | EA  |     | 26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add        | 1,612.74<br>123.46<br>284.73<br>-99.64<br>-3.65<br>36.89    | 302.55               |
| 07 72 13 00-0132        | EA  |     | 38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,089.35<br>78.68<br>187.62<br>11.20<br>96.54<br>134.94     | 242.04               |
| 07 72 13 00-0133        | EA  |     | 38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add         | 1,213.42<br>87.31<br>208.65<br>-57.32<br>32.27<br>68.54     | 272.29               |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                                     | DEMOLITION UNIT COST |
|------------------|-----|-----|---|--|----------------------|
| 07 72 13 00-0134 | EA  |     | 38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,259.29<br>91.89<br>217.82<br>-70.97<br>22.88<br>52.75    | 272.29               |
| 07 72 13 00-0135 | EA  |     | 38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,269.49<br>92.91<br>219.86<br>19.84<br>122.25<br>149.98   | 272.29               |
| 07 72 13 00-0136 | EA  |     | 38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,566.87<br>118.87<br>275.56<br>25.60<br>138.68<br>181.35  | 302.55               |
| 07 72 13 00-0137 | EA  |     | 38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 1,729.15<br>131.31<br>304.23<br>31.36<br>161.51<br>212.71  | 332.81               |
| 07 72 13 00-0138 | EA  |     | 50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,320.46<br>98.01<br>230.06<br>-73.72<br>20.15<br>43.62    | 272.29               |
| 07 72 13 00-0139 | EA  |     | 50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,328.16<br>95.00<br>227.81<br>-88.72<br>-1.26<br>41.41    | 302.55               |
| 07 72 13 00-0140 | EA  |     | 50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,492.95<br>111.48<br>260.77<br>-105.10<br>-30.43<br>42.09 | 302.55               |
| 07 72 13 00-0141 | EA  |     | 50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,642.50<br>122.65<br>286.90<br>-122.85<br>-26.84<br>41.41 | 332.81               |
| 07 72 13 00-0142 | EA  |     | 51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,766.56<br>131.27<br>307.93<br>32.96<br>152.44<br>205.78  | 363.07               |
| 07 72 13 00-0143 | EA  |     | 51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 1,928.86<br>143.72<br>336.61<br>-169.28<br>-34.87<br>37.67 | 393.31               |
| 07 72 13 00-0144 | EA  |     | 62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,492.95<br>111.48<br>260.77<br>26.24<br>96.65<br>177.72   | 302.55               |
| 07 72 13 00-0145 | EA  |     | 62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 1,614.46<br>119.85<br>281.29<br>-128.31<br>-23.77<br>42.35 | 332.81               |
| 07 72 13 00-0146 | EA  |     | 62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,758.92<br>130.51<br>306.40<br>-166.55<br>-62.01<br>-0.12 | 363.07               |
| 07 72 13 00-0147 | EA  |     | 62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,804.79<br>135.10<br>315.58<br>39.04<br>143.58<br>250.26  | 363.07               |

**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 07 72 13 00-0148 | EA  |     | 62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....   | 1,967.09                  | 393.31                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 147.54                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 344.25                    |                         |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>  | -210.22                   |                         |
|                  |     |     | <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>   | -103.56                   |                         |
|                  |     |     | <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>   | 32.98                     |                         |
| 07 72 13 00-0149 |     |     | <b>Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs</b> <sup>(07 72</sup><br><sub>13 00-0001)</sub>  |                           |                         |
|                  |     |     | Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips. |                           |                         |
| 07 72 13 00-0150 |     |     | <b>6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs</b> <sup>(07 72 13 00-0149)</sup>   |                           |                         |
| 07 72 13 00-0151 | EA  |     | 14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                      | 919.79                    | 242.04                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 61.72                     |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 153.70                    |                         |
| 07 72 13 00-0152 | EA  |     | 23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                      | 1,059.49                  | 242.04                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 75.69                     |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 181.64                    |                         |
| 07 72 13 00-0153 | EA  |     | 32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                      | 1,212.82                  | 272.29                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 87.25                     |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 208.53                    |                         |
| 07 72 13 00-0154 | EA  |     | 41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                      | 1,324.37                  | 272.29                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 98.40                     |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 230.84                    |                         |
| 07 72 13 00-0155 | EA  |     | 50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                      | 1,464.87                  | 302.55                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 108.67                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 255.16                    |                         |
| 07 72 13 00-0156 |     |     | <b>12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs</b> <sup>(07 72 13 00-0149)</sup>  |                           |                         |
| 07 72 13 00-0157 | EA  |     | 14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                     | 1,124.35                  | 242.04                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 82.18                     |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 194.62                    |                         |
| 07 72 13 00-0158 | EA  |     | 23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                     | 1,313.95                  | 242.04                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 101.14                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 232.54                    |                         |
| 07 72 13 00-0159 | EA  |     | 32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                     | 1,394.93                  | 272.29                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 105.46                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 244.95                    |                         |
| 07 72 13 00-0160 | EA  |     | 41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                     | 1,466.21                  | 272.29                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 112.58                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 259.21                    |                         |
| 07 72 13 00-0161 | EA  |     | 50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                     | 1,641.64                  | 302.55                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 126.35                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 290.51                    |                         |
| 07 72 13 00-0162 | EA  |     | 64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                     | 2,594.37                  | 332.81                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 217.84                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 477.27                    |                         |
| 07 72 13 00-0163 |     |     | <b>18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs</b> <sup>(07 72 13 00-0149)</sup>                                      |                           |                         |
| 07 72 13 00-0164 | EA  |     | 17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....                                    | 1,460.42                  | 242.04                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 115.79                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 261.83                    |                         |
| 07 72 13 00-0165 | EA  |     | 24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....  | 1,654.29                  | 242.04                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 135.17                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 300.60                    |                         |
| 07 72 13 00-0166 | EA  |     | 31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....   | 1,960.16                  | 272.29                  |
|                  |     |     | <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>  | 161.98                    |                         |
|                  |     |     | <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>   | 358.00                    |                         |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 72 13 00-0167 |     |     | <b>Wood, Prefabricated Roof Curbs</b> <small>(07 72 13)</small><br>Note: Includes Douglas fir construction, galvanized steel corner straps, fasteners, sealants, and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.  |                        |                      |
| 07 72 13 00-0168 |     |     | <b>Wood Framed, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0167)</small>   |                        |                      |
| 07 72 13 00-0169 |     |     | <b>2 x 6 Wood Framed, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0168)</small>   |                        |                      |
| 07 72 13 00-0170 | EA  |     | 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 777.91<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 47.54<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 125.33<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add -30.03<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 14.77<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 38.24             |                        | 242.04               |
| 07 72 13 00-0171 | EA  |     | 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 866.35<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 52.60<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 139.23<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add -45.05<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 29.62<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 44.56             |                        | 272.29               |
| 07 72 13 00-0172 | EA  |     | 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 921.83<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 58.15<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 150.33<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add 19.52<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 124.06<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 136.86            |                        | 272.29               |
| 07 72 13 00-0173 | EA  |     | 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 915.42<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 57.51<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 149.05<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add -70.97<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 22.88<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 52.75             |                        | 272.29               |
| 07 72 13 00-0174 | EA  |     | 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 930.36<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 59.00<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 152.04<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add 19.84<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 122.25<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 149.98            |                        | 272.29               |
| 07 72 13 00-0175 | EA  |     | 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 1,042.27<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 66.41<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 170.64<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add 25.60<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 138.68<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 181.35          |                        | 302.55               |
| 07 72 13 00-0176 | EA  |     | 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 926.09<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 58.57<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 151.18<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add -73.72<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 20.15<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 43.62             |                        | 272.29               |
| 07 72 13 00-0177 | EA  |     | 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 1,061.47<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 68.33<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 174.48<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add -105.10<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add -30.43<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 42.09         |                        | 302.55               |
| 07 72 13 00-0178 | EA  |     | 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 1,212.74<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 75.89<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 197.17<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add 32.96<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 152.44<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 205.78          |                        | 363.07               |
| 07 72 13 00-0179 | EA  |     | 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 1,023.07<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 64.49<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 166.80<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add 26.24<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 96.65<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 177.72           |                        | 302.55               |
| 07 72 13 00-0180 | EA  |     | 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 1,124.30<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 70.83<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 183.26<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add -128.31<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add -23.77<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 42.35 |                        | 332.81               |
| 07 72 13 00-0181 | EA  |     | 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb ..... 1,255.41<br>For Sloped Roofs Up To 1 In 12 Pitch, Add 80.16<br>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add 205.70<br>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add 39.04<br>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add 143.58<br>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add 250.26          |                        | 363.07               |
| 07 72 13 00-0182 |     |     | <b>2 x 8 Wood Framed, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0168)</small>   |                        |                      |



**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 72 13 00-0183 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 790.71                    | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 48.82                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 127.89                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -30.03                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 14.77                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 38.24                     |                         |
| 07 72 13 00-0184 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 881.29                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 54.09                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 142.22                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -45.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 29.62                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 44.56                     |                         |
| 07 72 13 00-0185 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 962.36                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 62.20                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 158.44                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | 19.52                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 124.06                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 136.86                    |                         |
| 07 72 13 00-0186 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 941.03                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 60.07                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 154.17                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -70.97                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 22.88                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 52.75                     |                         |
| 07 72 13 00-0187 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 962.36                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 62.20                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 158.44                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | 19.84                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 122.25                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 149.98                    |                         |
| 07 72 13 00-0188 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 1,074.27                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 69.61                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 177.04                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | 25.60                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 138.68                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 181.35                    |                         |
| 07 72 13 00-0189 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 949.56                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 60.92                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 155.88                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -73.72                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 20.15                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 43.62                     |                         |
| 07 72 13 00-0190 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 1,091.34                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 71.32                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 180.45                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -105.10                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | -30.43                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 42.09                     |                         |
| 07 72 13 00-0191 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 1,242.61                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 78.88                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 203.14                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | 32.96                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 152.44                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 205.78                    |                         |
| 07 72 13 00-0192 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 1,046.54                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 66.84                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 171.49                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | 26.24                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 96.65                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 177.72                    |                         |
| 07 72 13 00-0193 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb ..... | 1,152.03                  | 332.81                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 73.60                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 188.81                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -128.31                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | -23.77                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 42.35                     |                         |
| 07 72 13 00-0194 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....         | 1,285.28                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 83.15                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 211.67                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | 39.04                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 143.58                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 250.26                    |                         |
| <b>07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)</b>                          |                           |                         |
| 07 72 13 00-0196 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....        | 799.25                    | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add  | 49.67                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add  | 129.60                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add                                | -30.03                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                           | 14.77                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add   | 38.24                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                                 | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 07 72 13 00-0197 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 896.22<br>55.59<br>145.21<br>-45.05<br>29.62<br>44.56     | 272.29                  |
| 07 72 13 00-0198 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 966.63<br>62.63<br>159.29<br>19.52<br>124.06<br>136.86    | 272.29                  |
| 07 72 13 00-0199 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 955.96<br>61.56<br>157.16<br>-70.97<br>22.88<br>52.75     | 272.29                  |
| 07 72 13 00-0200 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 981.56<br>64.12<br>162.28<br>19.84<br>122.25<br>149.98    | 272.29                  |
| 07 72 13 00-0201 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,095.61<br>71.74<br>181.30<br>25.60<br>138.68<br>181.35  | 302.55                  |
| 07 72 13 00-0202 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 964.50<br>62.41<br>158.86<br>-73.72<br>20.15<br>43.62     | 272.29                  |
| 07 72 13 00-0203 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,110.54<br>73.24<br>184.29<br>-105.10<br>-30.43<br>42.09 | 302.55                  |
| 07 72 13 00-0204 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,261.81<br>80.80<br>206.98<br>32.96<br>152.44<br>205.78  | 363.07                  |
| 07 72 13 00-0205 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,061.47<br>68.33<br>174.48<br>26.24<br>96.65<br>177.72   | 302.55                  |
| 07 72 13 00-0206 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 1,169.10<br>75.31<br>192.22<br>-128.31<br>-23.77<br>42.35 | 332.81                  |
| 07 72 13 00-0207 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,306.61<br>85.28<br>215.94<br>39.04<br>143.58<br>250.26  | 363.07                  |
| <b>07 72 13 00-0208 2 x 12 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0168)</small></b>   |   |                         |
| 07 72 13 00-0209 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 809.92<br>50.74<br>131.73<br>-30.03<br>14.77<br>38.24     | 242.04                  |
| 07 72 13 00-0210 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 904.76<br>56.44<br>146.92<br>-45.05<br>29.62<br>44.56     | 272.29                  |

**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                                    | DEMOLITION UNIT COST |
|------------------|-----|-----|--|---|----------------------|
| 07 72 13 00-0211 | EA  |     | 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>           | 985.83<br>64.55<br>163.13<br>19.52<br>124.06<br>136.86    | 272.29               |
| 07 72 13 00-0212 | EA  |     | 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>           | 1,002.90<br>66.25<br>166.54<br>19.84<br>122.25<br>149.98  | 272.29               |
| 07 72 13 00-0213 | EA  |     | 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>           | 1,119.08<br>74.09<br>186.00<br>25.60<br>138.68<br>181.35  | 302.55               |
| 07 72 13 00-0214 | EA  |     | 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>           | 983.70<br>64.33<br>162.70<br>-73.72<br>20.15<br>43.62     | 272.29               |
| 07 72 13 00-0215 | EA  |     | 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>           | 1,131.88<br>75.37<br>188.56<br>-105.10<br>-30.43<br>42.09 | 302.55               |
| 07 72 13 00-0216 | EA  |     | 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>           | 1,287.41<br>83.36<br>212.10<br>32.96<br>152.44<br>205.78  | 363.07               |
| 07 72 13 00-0217 | EA  |     | 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>   | 1,186.17<br>77.02<br>195.63<br>-128.31<br>-23.77<br>42.35 | 332.81               |
| 07 72 13 00-0218 |     |     | Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0167)</small>   |   |                      |
| 07 72 13 00-0219 |     |     | 2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>   |   |                      |
| 07 72 13 00-0220 | EA  |     | 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 794.98<br>49.24<br>128.74<br>-30.03<br>14.77<br>38.24     | 242.04               |
| 07 72 13 00-0221 | EA  |     | 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 881.29<br>54.09<br>142.22<br>-45.05<br>29.62<br>44.56     | 272.29               |
| 07 72 13 00-0222 | EA  |     | 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 949.56<br>60.92<br>155.88<br>19.52<br>124.06<br>136.86    | 272.29               |
| 07 72 13 00-0223 | EA  |     | 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 934.63<br>59.43<br>152.89<br>-70.97<br>22.88<br>52.75     | 272.29               |
| 07 72 13 00-0224 | EA  |     | 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 953.83<br>61.35<br>156.73<br>19.84<br>122.25<br>149.98    | 272.29               |
| 07 72 13 00-0225 | EA  |     | 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 1,067.87<br>68.97<br>175.76<br>25.60<br>138.68<br>181.35  | 302.55               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 72 13 00-0226 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....         | 945.29                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 60.49                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 155.02                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -73.72                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 20.15                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 43.62                     |                         |
| 07 72 13 00-0227 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....         | 1,084.94                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 70.68                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 179.17                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -105.10                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | -30.43                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 42.09                     |                         |
| 07 72 13 00-0228 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....         | 1,236.21                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 78.24                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 201.66                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 32.96                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 152.44                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 205.78                    |                         |
| 07 72 13 00-0229 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....         | 1,048.67                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 67.05                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 171.92                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 26.24                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 96.65                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 177.72                    |                         |
| 07 72 13 00-0230 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... | 1,147.77                  | 332.81                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 73.18                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 187.95                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -128.31                   |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | -23.77                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 42.35                     |                         |
| 07 72 13 00-0231 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....         | 1,285.28                  | 363.07                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 83.15                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 211.67                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 39.04                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 143.58                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 250.26                    |                         |
| <b>07 72 13 00-0232 2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)</b>                           |                           |                         |
| 07 72 13 00-0233 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 809.92                    | 242.04                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 50.74                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 131.73                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -30.03                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 14.77                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 38.24                     |                         |
| 07 72 13 00-0234 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 898.36                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 55.80                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 145.64                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -45.05                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 29.62                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 44.56                     |                         |
| 07 72 13 00-0235 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 975.16                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 63.48                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 161.00                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.52                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 124.06                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 136.66                    |                         |
| 07 72 13 00-0236 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 960.23                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 61.99                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 158.01                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -70.97                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 22.88                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 52.75                     |                         |
| 07 72 13 00-0237 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 987.96                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 64.76                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 163.56                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 19.84                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 122.25                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 149.98                    |                         |
| 07 72 13 00-0238 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 1,106.27                  | 302.55                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 72.81                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 183.44                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | 25.60                     |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 138.68                    |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 181.35                    |                         |
| 07 72 13 00-0239 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....         | 975.16                    | 272.29                  |
| For Sloped Roofs Up To 1 In 12 Pitch, Add   | 63.48                     |                         |
| For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add   | 161.00                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add   | -73.72                    |                         |
| For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add                                      | 20.15                     |                         |
| For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add  | 43.62                     |                         |

**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                                    | DEMOLITION UNIT COST |
|--|-----|-----|--|---|----------------------|
| 07 72 13 00-0240   | EA  |     | 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,121.21<br>74.30<br>186.42<br>-105.10<br>-30.43<br>42.09 | 302.55               |
| 07 72 13 00-0241   | EA  |     | 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,276.75<br>82.29<br>209.97<br>32.96<br>152.44<br>205.78  | 363.07               |
| 07 72 13 00-0242   | EA  |     | 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,076.40<br>69.82<br>177.46<br>26.24<br>96.65<br>177.72   | 302.55               |
| 07 72 13 00-0243   | EA  |     | 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 1,179.77<br>76.38<br>194.35<br>-128.31<br>-23.77<br>42.35 | 332.81               |
| 07 72 13 00-0244   | EA  |     | 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,321.55<br>86.77<br>218.93<br>39.04<br>143.58<br>250.26  | 363.07               |
| <b>07 72 13 00-0245 2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)</b> |     |     |  |   |                      |
| 07 72 13 00-0246   | EA  |     | 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 822.72<br>52.02<br>134.29<br>-30.03<br>14.77<br>38.24     | 242.04               |
| 07 72 13 00-0247   | EA  |     | 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 915.42<br>57.51<br>149.05<br>-45.05<br>29.62<br>44.56     | 272.29               |
| 07 72 13 00-0248   | EA  |     | 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 1,000.76<br>66.04<br>166.12<br>19.52<br>124.06<br>136.86  | 272.29               |
| 07 72 13 00-0249   | EA  |     | 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 979.43<br>63.91<br>161.85<br>-70.97<br>22.88<br>52.75     | 272.29               |
| 07 72 13 00-0250   | EA  |     | 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 1,013.57<br>67.32<br>168.68<br>19.84<br>122.25<br>149.98  | 272.29               |
| 07 72 13 00-0251   | EA  |     | 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 1,134.01<br>75.58<br>188.98<br>25.60<br>138.68<br>181.35  | 302.55               |
| 07 72 13 00-0252   | EA  |     | 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 994.36<br>65.40<br>164.84<br>-73.72<br>20.15<br>43.62     | 272.29               |
| 07 72 13 00-0253   | EA  |     | 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>        | 1,144.68<br>76.65<br>191.12<br>-105.10<br>-30.43<br>42.09 | 302.55               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                 | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 07 72 13 00-0254 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,302.35<br>84.85<br>215.09<br>32.96<br>152.44<br>205.78  | 363.07                  |
| 07 72 13 00-0255 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,097.74<br>71.96<br>181.73<br>26.24<br>96.65<br>177.72   | 302.55                  |
| 07 72 13 00-0256 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 1,203.24<br>78.72<br>199.05<br>-128.31<br>-23.77<br>42.35 | 332.81                  |
| 07 72 13 00-0257 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,349.28<br>89.55<br>224.47<br>39.04<br>143.58<br>250.26  | 363.07                  |
| <b>07 72 13 00-0258 2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)</b>  |   |                         |
| 07 72 13 00-0259 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 848.32<br>54.58<br>139.41<br>-30.03<br>14.77<br>38.24     | 242.04                  |
| 07 72 13 00-0260 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 928.23<br>58.79<br>151.61<br>-45.05<br>29.62<br>44.56     | 272.29                  |
| 07 72 13 00-0261 EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,019.97<br>67.96<br>169.96<br>19.52<br>124.06<br>136.86  | 272.29                  |
| 07 72 13 00-0262 EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,034.90<br>69.45<br>172.94<br>19.84<br>122.25<br>149.98  | 272.29                  |
| 07 72 13 00-0263 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,215.08<br>83.69<br>205.20<br>25.60<br>138.68<br>181.35  | 302.55                  |
| 07 72 13 00-0264 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,056.24<br>71.59<br>177.21<br>-73.72<br>20.15<br>43.62   | 272.29                  |
| 07 72 13 00-0265 EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,219.35<br>84.12<br>206.05<br>-105.10<br>-30.43<br>42.09 | 302.55                  |
| 07 72 13 00-0266 EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>         | 1,387.69<br>93.39<br>232.16<br>32.96<br>152.44<br>205.78  | 363.07                  |
| 07 72 13 00-0267 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....<br><i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i><br><i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i><br><i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i><br><i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> | 1,282.18<br>86.62<br>214.84<br>-128.31<br>-23.77<br>42.35 | 332.81                  |

**07 72 23 Relief Vents (07 72)**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |  |          |        |
|------------------|--|----------|--------|
| 07 72 23 00-0001 | Wind Driven Turbine Ventilators (07 72 23)<br>Note: Excludes curb or flange base.                        |          |        |
| 07 72 23 00-0002 | Galvanized Steel, Wind Driven Turbine Ventilators (07 72 23 00-0001)                                     |          |        |
| 07 72 23 00-0003 | EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....    | 181.41   | 42.95  |
|                  | For Curb Or Flange Base, Add .....   | 211.33   |        |
| 07 72 23 00-0004 | EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....    | 216.84   | 47.56  |
|                  | For Curb Or Flange Base, Add .....   | 232.89   |        |
| 07 72 23 00-0005 | EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....   | 235.73   | 56.76  |
|                  | For Curb Or Flange Base, Add .....   | 261.50   |        |
| 07 72 23 00-0006 | EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....   | 439.21   | 62.89  |
|                  | For Curb Or Flange Base, Add .....   | 404.06   |        |
| 07 72 23 00-0007 | EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....   | 600.36   | 70.56  |
|                  | For Curb Or Flange Base, Add .....   | 438.92   |        |
| 07 72 23 00-0008 | EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....   | 721.74   | 76.70  |
|                  | For Curb Or Flange Base, Add .....   | 476.06   |        |
| 07 72 23 00-0009 | EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....   | 918.74   | 85.90  |
|                  | For Curb Or Flange Base, Add .....   | 578.85   |        |
| 07 72 23 00-0010 | EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....   | 1,510.24 | 115.05 |
|                  | For Curb Or Flange Base, Add .....   | 934.85   |        |
| 07 72 23 00-0011 | Mill Finish Aluminum, Wind Driven Turbine Ventilators (07 72 23 00-0001)                                 |          |        |
| 07 72 23 00-0012 | EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....  | 173.14   | 42.95  |
|                  | For Curb Or Flange Base, Add .....   | 215.40   |        |
| 07 72 23 00-0013 | EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....  | 214.30   | 47.56  |
|                  | For Curb Or Flange Base, Add .....   | 237.80   |        |
| 07 72 23 00-0014 | EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator ..... | 241.16   | 56.76  |
|                  | For Curb Or Flange Base, Add .....   | 266.24   |        |
| 07 72 23 00-0015 | EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator ..... | 417.74   | 62.89  |
|                  | For Curb Or Flange Base, Add .....   | 435.19   |        |
| 07 72 23 00-0016 | EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator ..... | 535.86   | 70.56  |
|                  | For Curb Or Flange Base, Add .....   | 466.87   |        |
| 07 72 23 00-0017 | EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator ..... | 673.93   | 76.70  |
|                  | For Curb Or Flange Base, Add .....   | 524.03   |        |
| 07 72 23 00-0018 | EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator ..... | 904.99   | 85.90  |
|                  | For Curb Or Flange Base, Add .....   | 629.49   |        |
| 07 72 23 00-0019 | EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator ..... | 1,344.17 | 115.05 |
|                  | For Curb Or Flange Base, Add .....   | 938.40   |        |
| 07 72 23 00-0020 | Stationary Siphon Ventilators (07 72 23)<br>Note: Excludes curb or flange base.                          |          |        |
| 07 72 23 00-0021 | Galvanized Steel, Stationary Siphon Ventilators (07 72 23 00-0020)                                       |          |        |
| 07 72 23 00-0022 | EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                      | 155.05   | 42.95  |
|                  | For Curb Or Flange Base, Add .....   | 211.33   |        |
| 07 72 23 00-0023 | EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                      | 201.77   | 47.56  |
|                  | For Curb Or Flange Base, Add .....   | 232.89   |        |
| 07 72 23 00-0024 | EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                     | 223.37   | 56.76  |
|                  | For Curb Or Flange Base, Add .....   | 261.50   |        |
| 07 72 23 00-0025 | EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                     | 371.58   | 62.89  |
|                  | For Curb Or Flange Base, Add .....   | 404.06   |        |
| 07 72 23 00-0026 | EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                     | 429.19   | 70.56  |
|                  | For Curb Or Flange Base, Add .....   | 438.92   |        |
| 07 72 23 00-0027 | EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                     | 600.77   | 76.70  |
|                  | For Curb Or Flange Base, Add .....   | 476.06   |        |
| 07 72 23 00-0028 | EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                     | 778.54   | 85.90  |
|                  | For Curb Or Flange Base, Add .....   | 578.85   |        |
| 07 72 23 00-0029 | EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....                     | 1,125.64 | 115.05 |
|                  | For Curb Or Flange Base, Add .....   | 934.85   |        |
| 07 72 23 00-0030 | Mill Finish Aluminum, Stationary Siphon Ventilators (07 72 23 00-0020)                                   |          |        |
| 07 72 23 00-0031 | EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                    | 166.93   | 42.95  |
|                  | For Curb Or Flange Base, Add .....   | 215.40   |        |
| 07 72 23 00-0032 | EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                    | 218.01   | 47.56  |
|                  | For Curb Or Flange Base, Add .....   | 237.80   |        |
| 07 72 23 00-0033 | EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                   | 244.28   | 56.76  |
|                  | For Curb Or Flange Base, Add .....   | 266.24   |        |
| 07 72 23 00-0034 | EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                   | 388.51   | 62.89  |
|                  | For Curb Or Flange Base, Add .....   | 435.19   |        |
| 07 72 23 00-0035 | EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                   | 486.20   | 70.56  |
|                  | For Curb Or Flange Base, Add .....   | 466.87   |        |
| 07 72 23 00-0036 | EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                   | 593.21   | 76.70  |
|                  | For Curb Or Flange Base, Add .....   | 524.03   |        |
| 07 72 23 00-0037 | EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                   | 842.93   | 85.90  |
|                  | For Curb Or Flange Base, Add .....   | 629.49   |        |
| 07 72 23 00-0038 | EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator .....                   | 1,264.84 | 115.05 |
|                  | For Curb Or Flange Base, Add .....   | 938.40   |        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>07 72 23 00-0039 Spun Aluminum, Stationary Mushroom Gravity Ventilators</b> (07 72 23)             |                           |                         |
| Note: Includes flange base and bird screen. Excludes curb.  |                           |                         |
| 07 72 23 00-0040 EA 8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator .....  | 349.86                    | 69.03                   |
| For Backdraft Damper, Add   | 168.58                    |                         |
| For Curb Base, Add  | 264.70                    |                         |
| 07 72 23 00-0041 EA 10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 427.76                    | 76.70                   |
| For Backdraft Damper, Add   | 184.44                    |                         |
| For Curb Base, Add  | 289.72                    |                         |
| 07 72 23 00-0042 EA 12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 485.94                    | 92.04                   |
| For Backdraft Damper, Add   | 251.87                    |                         |
| For Curb Base, Add  | 366.30                    |                         |
| 07 72 23 00-0043 EA 16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 588.28                    | 101.25                  |
| For Backdraft Damper, Add   | 287.57                    |                         |
| For Curb Base, Add  | 423.36                    |                         |
| 07 72 23 00-0044 EA 24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 1,513.28                  | 138.06                  |
| For Backdraft Damper, Add   | 360.95                    |                         |
| For Curb Base, Add  | 558.37                    |                         |
| 07 72 23 00-0045 EA 30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 1,844.62                  | 159.53                  |
| For Backdraft Damper, Add   | 426.40                    |                         |
| For Curb Base, Add  | 666.38                    |                         |
| 07 72 23 00-0046 EA 36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 2,500.95                  | 184.09                  |
| For Backdraft Damper, Add   | 426.40                    |                         |
| For Curb Base, Add  | 696.90                    |                         |
| 07 72 23 00-0047 EA 42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 3,493.25                  | 199.42                  |
| For Backdraft Damper, Add   | 446.23                    |                         |
| For Curb Base, Add  | 723.91                    |                         |
| 07 72 23 00-0048 EA 48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator ..... | 4,999.19                  | 214.76                  |
| For Backdraft Damper, Add   | 495.81                    |                         |
| For Curb Base, Add  | 812.39                    |                         |
| <b>07 72 23 00-0049 Galvanized Steel, Stationary Gooseneck Ventilators</b> (07 72 23)                 |                           |                         |
| Note: Includes flange base and bird screen. Excludes curb.  |                           |                         |
| 07 72 23 00-0050 EA 8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator .....        | 632.94                    | 76.70                   |
| 07 72 23 00-0051 EA 12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator .....      | 746.29                    | 101.25                  |
| 07 72 23 00-0052 EA 16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator .....      | 1,071.89                  | 138.06                  |
| 07 72 23 00-0053 EA 24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator .....      | 1,644.71                  | 159.53                  |
| <b>07 72 26 Ridge Vents</b> (07 72)   |                           |                         |
| <b>07 72 26 00-0001 Aluminum Ridge Vents</b> (07 72 26)   |                           |                         |
| 07 72 26 00-0002 LF Aluminum Ridge Vent Strips .....  | 17.16                     | 4.45                    |
| 07 72 26 00-0003 EA Aluminum Ridge Univent Connectors .....   | 69.32                     | 27.64                   |
| 07 72 26 00-0004 EA Aluminum Ridge Univent End Cap .....  | 64.93                     | 27.64                   |
| <b>07 72 26 00-0005 Galvanized Ridge Vents</b> (07 72 26)   |                           |                         |
| 07 72 26 00-0006 LF Galvanized Sheet Metal Ridge Vent Strips .....                                    | 16.19                     | 4.76                    |
| <b>07 72 29 Rafter Vent</b> (07 72)   |                           |                         |
| <b>07 72 29 00-0001 Rafter Vent</b> (07 72 29)  |                           |                         |
| Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.        |                           |                         |
| 07 72 29 00-0002 EA 22" x 4' Rafter Vent .....  | 12.36                     |                         |
| 07 72 29 00-0003 EA 14" x 4' Rafter Vent .....  | 11.29                     |                         |
| <b>07 72 33 Roof Hatches</b> (07 72)  |                           |                         |
| Note: Includes curb with integral insulation, lockable hatch and gaskets.                             |                           |                         |
| <b>07 72 33 00-0001 Galvanized Steel Cover And Curb</b> (07 72 33)                                    |                           |                         |
| 07 72 33 00-0002 EA 2'-6" x 3'-0" Galvanized Steel Roof Hatch .....                                   | 1,343.32                  | 185.96                  |
| 07 72 33 00-0003 EA 2'-6" x 4'-6" Galvanized Steel Roof Hatch .....                                   | 1,943.34                  | 206.62                  |
| 07 72 33 00-0004 EA 2'-6" x 8'-0" Galvanized Steel Roof Hatch .....                                   | 3,396.59                  | 281.79                  |
| 07 72 33 00-0005 EA 3'-0" x 3'-0" Galvanized Steel Roof Hatch .....                                   | 1,910.38                  | 206.62                  |
| 07 72 33 00-0006 EA 4'-0" x 4'-0" Galvanized Steel Roof Hatch .....                                   | 2,154.23                  | 229.61                  |
| 07 72 33 00-0007 EA 3'-0" x 8'-0" Galvanized Steel Roof Hatch .....                                   | 3,508.70                  | 313.16                  |
| <b>07 72 33 00-0008 Aluminum Cover And Curb</b> (07 72 33)  |                           |                         |
| 07 72 33 00-0009 EA 2'-6" x 3'-0" Aluminum Roof Hatch .....   | 1,363.09                  | 185.96                  |
| 07 72 33 00-0010 EA 2'-6" x 4'-6" Aluminum Roof Hatch .....   | 1,761.12                  | 206.62                  |
| 07 72 33 00-0011 EA 2'-6" x 8'-0" Aluminum Roof Hatch .....   | 3,172.72                  | 281.79                  |
| 07 72 33 00-0012 EA 3'-0" x 3'-0" Aluminum Roof Hatch .....   | 1,719.97                  | 206.62                  |
| 07 72 33 00-0013 EA 4'-0" x 4'-0" Aluminum Roof Hatch .....   | 3,026.95                  | 229.61                  |
| 07 72 33 00-0014 EA 3'-0" x 8'-0" Aluminum Roof Hatch .....   | 3,341.47                  | 313.16                  |
| 07 72 33 00-0015 EA 3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight .....                           | 1,919.91                  | 206.62                  |
| <b>07 72 33 00-0016 Steel, Plain, Primed</b> (07 72 33)   |                           |                         |



**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
**07 72 Roof Accessories**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 07 72 33 00-0017        | EA  |     | 2'-6" x 3'-0" Plain Steel Roof Hatch Primed .....                                   | 1,291.38               | 185.96               |
| 07 72 33 00-0018        | EA  |     | 2'-6" x 4'-6" Plain Steel Roof Hatch Primed .....                                   | 1,727.58               | 206.62               |
| 07 72 33 00-0019        | EA  |     | 2'-6" x 8'-0" Plain Steel Roof Hatch Primed .....                                   | 2,366.14               | 281.79               |
| 07 72 33 00-0020        | EA  |     | 3'-0" x 3'-0" Plain Steel Roof Hatch Primed .....                                   | 1,603.65               | 206.62               |
| 07 72 33 00-0021        | EA  |     | 4'-0" x 4'-0" Plain Steel Roof Hatch Primed .....                                   | 1,956.35               | 229.61               |
| 07 72 33 00-0022        | EA  |     | 3'-0" x 8'-0" Plain Steel Roof Hatch Primed .....                                   | 2,657.78               | 313.16               |
| <b>07 72 33 00-0023</b> |     |     | <b>Stainless Steel</b> (07 72 33)   |                        |                      |
| 07 72 33 00-0024        | EA  |     | 2'-6" x 3'-0" Stainless Steel Roof Hatch .....                                      | 2,983.34               | 185.96               |
| 07 72 33 00-0025        | EA  |     | 2'-6" x 4'-6" Stainless Steel Roof Hatch .....                                      | 5,666.77               | 206.62               |
| 07 72 33 00-0026        | EA  |     | 2'-6" x 8'-0" Stainless Steel Roof Hatch .....                                      | 8,513.38               | 281.79               |
| 07 72 33 00-0027        | EA  |     | 3'-0" x 3'-0" Stainless Steel Roof Hatch .....                                      | 4,555.21               | 206.62               |
| 07 72 33 00-0028        | EA  |     | 4'-0" x 4'-0" Stainless Steel Roof Hatch .....                                      | 9,572.84               | 229.61               |
| 07 72 33 00-0029        | EA  |     | 3'-0" x 8'-0" Stainless Steel Roof Hatch .....                                      | 10,735.99              | 313.16               |
| <b>07 72 33 00-0030</b> |     |     | <b>Removal And Reinstallation Of Roof Hatch</b> (07 72 33)                          |                        |                      |
|                         |     |     | Note: Includes storage, cleaning and supply materials.                              |                        |                      |
| 07 72 33 00-0031        | EA  |     | Removal And Reinstallation Of Roof Hatch (All Types) .....                          | 571.98                 |                      |
| <b>07 72 33 00-0032</b> |     |     | <b>Aluminum Cover And Galvanized Steel Curb</b> (07 72 33)                          |                        |                      |
| 07 72 33 00-0033        | EA  |     | Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof .....                      | 1,322.15               | 206.62               |
| 07 72 33 00-0034        | EA  |     | Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof .....                      | 1,720.17               | 229.61               |
| 07 72 33 00-0035        | EA  |     | Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof .....                      | 3,066.27               | 313.03               |
| 07 72 33 00-0036        | EA  |     | Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof .....                      | 1,687.21               | 213.08               |
| 07 72 33 00-0037        | EA  |     | Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof .....                      | 2,936.88               | 236.06               |
| <b>07 72 33 00-0038</b> |     |     | <b>Roof Hatch Accessories</b> (07 72 33)  |                        |                      |
| 07 72 33 00-0039        | EA  |     | Enamel Steel, Roof Hatch Ladderup Safety Post .....                                 | 825.06                 | 96.86                |
| <b>07 72 33 00-0040</b> |     |     | <b>Roof Hatch Safety Railing</b> (07 72 33)   |                        |                      |
|                         |     |     | Note: Included mounting bracket to attach to roof hatch                             |                        |                      |
| 07 72 33 00-0041        | EA  |     | 24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate .....     | 2,091.17               |                      |
| 07 72 33 00-0042        | EA  |     | 24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate .....     | 2,171.66               |                      |
| 07 72 33 00-0043        | EA  |     | 30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate .....     | 2,224.52               |                      |
| 07 72 33 00-0044        | EA  |     | 30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate .....     | 2,418.02               |                      |
| 07 72 33 00-0045        | EA  |     | 36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate .....     | 2,641.66               |                      |
| 07 72 33 00-0046        | EA  |     | 48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate .....     | 3,363.01               |                      |
| <b>07 72 36</b>         |     |     | <b>Smoke Vents</b> (07 72)  |                        |                      |
| <b>07 72 36 00-0001</b> |     |     | <b>Fire Vent</b> (07 72 36)   |                        |                      |
| <b>07 72 36 00-0002</b> |     |     | <b>Galvanized Steel Covers And Curb</b> (07 72 36 00-0001)                          |                        |                      |
| 07 72 36 00-0003        | EA  |     | 4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 3,345.36               | 172.27               |
| 07 72 36 00-0004        | EA  |     | 4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 3,857.80               | 236.84               |
| 07 72 36 00-0005        | EA  |     | 4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 4,394.70               | 258.41               |
| 07 72 36 00-0006        | EA  |     | 4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 4,483.33               | 271.32               |
| 07 72 36 00-0007        | EA  |     | 5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 5,183.67               | 236.84               |
| 07 72 36 00-0008        | EA  |     | 5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 5,512.78               | 258.41               |
| 07 72 36 00-0009        | EA  |     | 5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 5,822.09               | 279.97               |
| 07 72 36 00-0010        | EA  |     | 5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 6,626.14               | 301.54               |
| 07 72 36 00-0011        | EA  |     | 5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....          | 8,211.86               | 322.97               |
| 07 72 36 00-0012        | EA  |     | 5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 5,515.36               | 279.97               |
| 07 72 36 00-0013        | EA  |     | 5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....          | 11,548.93              | 344.55               |
| 07 72 36 00-0014        | EA  |     | 6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent .....           | 6,366.80               | 366.11               |
| <b>07 72 36 00-0015</b> |     |     | <b>Aluminum Covers And Galvanized Steel Curb</b> (07 72 36 00-0001)                 |                        |                      |
| 07 72 36 00-0016        | EA  |     | 4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 2,911.32               | 172.27               |
| 07 72 36 00-0017        | EA  |     | 4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 3,343.92               | 236.84               |
| 07 72 36 00-0018        | EA  |     | 4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 3,761.05               | 258.41               |
| 07 72 36 00-0019        | EA  |     | 4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 3,895.06               | 271.32               |
| 07 72 36 00-0020        | EA  |     | 5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 3,777.90               | 236.84               |
| 07 72 36 00-0021        | EA  |     | 5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 4,817.35               | 258.41               |
| 07 72 36 00-0022        | EA  |     | 5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 5,152.59               | 279.97               |
| 07 72 36 00-0023        | EA  |     | 5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 5,021.10               | 301.54               |
| 07 72 36 00-0024        | EA  |     | 5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent ..... | 7,034.98               | 322.97               |
| 07 72 36 00-0025        | EA  |     | 5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 4,865.99               | 279.97               |
| 07 72 36 00-0026        | EA  |     | 5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent ..... | 9,212.64               | 344.55               |
| 07 72 36 00-0027        | EA  |     | 6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent .....  | 4,790.42               | 366.11               |
| <b>07 72 36 00-0028</b> |     |     | <b>Aluminum Covers And Curb</b> (07 72 36 00-0001)                                  |                        |                      |
| 07 72 36 00-0029        | EA  |     | 4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....                   | 3,173.35               | 172.27               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 72 36 00-0030 EA 4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 3,777.90                  | 236.84                  |
| 07 72 36 00-0031 EA 4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 4,145.91                  | 258.41                  |
| 07 72 36 00-0032 EA 4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 4,386.36                  | 271.32                  |
| 07 72 36 00-0033 EA 5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 3,974.42                  | 236.84                  |
| 07 72 36 00-0034 EA 5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 5,022.06                  | 258.41                  |
| 07 72 36 00-0035 EA 5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 5,332.73                  | 279.97                  |
| 07 72 36 00-0036 EA 5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 5,512.40                  | 301.54                  |
| 07 72 36 00-0037 EA 5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....  | 6,682.88                  | 322.97                  |
| 07 72 36 00-0038 EA 5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 5,095.27                  | 279.97                  |
| 07 72 36 00-0039 EA 5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....  | 10,056.05                 | 344.55                  |
| 07 72 36 00-0040 EA 6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent .....   | 5,281.73                  | 366.11                  |
| <br>  |                           |                         |
| <b>07 72 36 00-0041 Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb</b> (07 72 36)                                  |                           |                         |
| 07 72 36 00-0042 EA 4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent .....        | 3,140.60                  | 171.76                  |
| 07 72 36 00-0043 EA 4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent .....        | 3,982.60                  | 236.84                  |
| 07 72 36 00-0044 EA 4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent .....        | 4,214.39                  | 271.32                  |
| 07 72 36 00-0045 EA 5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent .....        | 4,514.86                  | 236.84                  |
| 07 72 36 00-0046 EA 5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent .....        | 4,775.46                  | 301.54                  |
| <br>  |                           |                         |
| <b>07 72 46 Roof Walkways</b> (07 72)   |                           |                         |
| <b>07 72 46 00-0001 Recycled Rubber Walkway Pads</b> (07 72 46)   |                           |                         |
| 07 72 46 00-0002 SF 3/8" Thick, Button Surface, Recycled Rubber Walkway Pad .....   | 12.30                     | 2.85                    |
| <i>For Diamond Surface, Add</i>   | 1.12                      |                         |
| 07 72 46 00-0003 SF 1/2" Thick, Button Surface, Recycled Rubber Walkway Pad .....   | 13.71                     | 3.42                    |
| <i>For Diamond Surface, Add</i>   | 1.30                      |                         |
| 07 72 46 00-0004 SF 3/4" Thick, Button Surface, Recycled Rubber Walkway Pad .....   | 15.14                     | 3.42                    |
| <i>For Diamond Surface, Add</i>   | 1.45                      |                         |
| <br>  |                           |                         |
| <b>07 72 53 Snow Guards</b> (07 72)   |                           |                         |
| <b>07 72 53 00-0001 Snow Guards For Shingle And Tile Roofs</b> (07 72 53)   |                           |                         |
| 07 72 53 00-0002 EA 6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs .....                                      | 24.44                     | 2.93                    |
| 07 72 53 00-0003 EA 6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs .....                          | 26.77                     | 2.93                    |
| 07 72 53 00-0004 EA 6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs .....                             | 25.23                     | 2.93                    |
| 07 72 53 00-0005 EA 6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs .....                                    | 14.44                     | 2.93                    |
| <br>  |                           |                         |
| <b>07 72 53 00-0006 Snow Guards For Metal Roofs</b> (07 72 53)  |                           |                         |
| Note: Aluminum construction.  |                           |                         |
| 07 72 53 00-0007 EA Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300) .....                  | 28.96                     | 5.48                    |
| 07 72 53 00-0008 EA Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300) .....          | 32.13                     | 5.48                    |
| 07 72 53 00-0009 EA Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300) .....                | 47.12                     | 5.48                    |
| 07 72 53 00-0010 EA Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300) .....               | 46.45                     | 5.48                    |
| 07 72 53 00-0011 EA Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516) .....                   | 43.78                     | 6.40                    |
| 07 72 53 00-0012 EA Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516) .....           | 47.76                     | 6.40                    |
| 07 72 53 00-0013 EA Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516) .....                | 59.49                     | 6.40                    |
| 07 72 53 00-0014 EA Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM) .....                               | 25.31                     | 4.80                    |
| <i>For Mechanically Fastened, Add</i>   | 9.60                      |                         |
| 07 72 53 00-0015 EA Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM) .....                       | 28.60                     | 4.80                    |
| <i>For Mechanically Fastened, Add</i>   | 9.60                      |                         |
| 07 72 53 00-0016 EA Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM) .....                            | 39.78                     | 4.80                    |
| <i>For Mechanically Fastened, Add</i>   | 9.60                      |                         |
| 07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15) .....                                      | 15.66                     | 4.80                    |
| Note: Can be used for metal, rubber, PVC, TPO or glass roofing.   |                           |                         |
| <i>For Mechanically Fastened, Add</i>   | 12.80                     |                         |
| <br>  |                           |                         |
| <b>07 72 53 00-0018 Snow Breaker For Roofs</b> (07 72 53)   |                           |                         |
| 07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount .....   | 19.69                     | 6.40                    |
| 07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount .....   | 18.57                     | 6.40                    |
| 07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount .....  | 18.01                     | 6.40                    |
| 07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount .....   | 17.34                     | 6.40                    |
| <br>  |                           |                         |
| <b>07 72 53 00-0023 Ice Breaker For Vents</b> (07 72 53)  |                           |                         |
| 07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened .....   | 152.46                    |                         |
| 07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened .....                                     | 174.95                    |                         |
| <br>  |                           |                         |
| <b>07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs</b> (07 72 53)  |                           |                         |
| <b>07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps</b> (07 72 53 00-0026)   |                           |                         |
| Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.  |                           |                         |
| 07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000) .....         | 73.99                     | 19.20                   |
| 07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000) ..... | 87.71                     | 19.20                   |

|              |  |
|--------------|--|
| <b>07</b>    | <b>Thermal And Moisture Protection</b>           |
| <b>07 70</b> | <b>Roof and Wall Specialties and Accessories</b> |
| <b>07 72</b> | <b>Roof Accessories</b>                          |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....              | 98.66                     | 19.20                   |
| 07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....     | 122.22                    | 19.20                   |
| 07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000).....              | 126.35                    | 23.04                   |
| <b>07 72 53 00-0033 Tubing For Snow Guard Clamps (07 72 53 00-0026)</b>   |                           |                         |
| 07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®).....                                       | 15.45                     | 4.60                    |
| Note: Includes end caps, collars and couplings.   |                           |                         |
| 07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®).....                       | 30.00                     | 4.60                    |
| Note: Includes end caps, collars and couplings.   |                           |                         |
| <b>07 72 56 Snow/Ice Melt Cable (07 72)</b>   |                           |                         |
| <b>07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters (07 72 56)</b>  |                           |                         |
| 07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters.....                                       | 17.45                     | 1.54                    |
| Note: Nickel-coated copper braided cable with weatherproof jacket.  |                           |                         |
| 07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters.....                                    | 18.73                     | 1.54                    |
| Note: Nickel-coated copper braided cable with weatherproof jacket.  |                           |                         |
| 07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters.....            | 304.47                    | 115.51                  |
| 07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters.....   | 231.20                    | 84.71                   |
| 07 72 56 00-0006 EA Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....                                     | 11.45                     | 4.62                    |
| For >5, Deduct  | -0.92                     |                         |
| 07 72 56 00-0007 EA Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....   | 10.71                     | 4.62                    |
| For >5, Deduct  | -0.85                     |                         |
| 07 72 56 00-0008 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters.....   | 70.08                     | 11.56                   |
| 07 72 56 00-0009 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow.....   | 1,105.76                  | 92.41                   |
| 07 72 56 00-0010 EA Automatic Gutter Ice Melting Control.....   | 1,513.35                  | 115.51                  |
| <b>07 72 63 Waste Containment Assemblies (07 72)</b>  |                           |                         |
| <b>07 72 63 00-0001 Rooftop Oil And Grease Containment System (07 72 63)</b>  |                           |                         |
| <b>07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) (07 72 63 00-0001)</b>                        |                           |                         |
| 07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E).....   | 3,088.29                  | 234.48                  |
| 07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E).....   | 3,453.46                  | 234.48                  |
| 07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E).....   | 4,239.43                  | 243.86                  |
| 07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E).....   | 4,218.55                  | 243.86                  |
| 07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E).....  | 5,513.91                  | 263.79                  |
| 07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E).....  | 4,298.05                  | 263.79                  |
| 07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E).....   | 4,789.00                  | 312.56                  |
| 07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E)..... | 7,058.62                  | 390.77                  |
| 07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E)..... | 8,770.22                  | 390.77                  |
| 07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E)..... | 11,118.44                 | 390.77                  |
| <b>07 72 63 00-0013 Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) (07 72 63 00-0001)</b>                          |                           |                         |
| 07 72 63 00-0014 EA 48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100).....     | 3,803.09                  | 234.48                  |
| 07 72 63 00-0015 EA 60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101).....     | 4,277.97                  | 234.48                  |
| 07 72 63 00-0016 EA 60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106).....     | 5,288.31                  | 243.86                  |
| 07 72 63 00-0017 EA 72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102).....     | 5,382.26                  | 243.86                  |
| 07 72 63 00-0018 EA 72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103).....    | 7,689.93                  | 263.79                  |
| 07 72 63 00-0019 EA 72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111).....    | 8,436.15                  | 263.79                  |
| 07 72 63 00-0020 EA 90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105).....     | 7,836.47                  | 312.56                  |
| 07 72 63 00-0021 EA 108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112).....   | 8,822.39                  | 390.77                  |
| 07 72 63 00-0022 EA 120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107).....   | 11,050.60                 | 390.77                  |
| 07 72 63 00-0023 EA 144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113).....   | 14,103.28                 | 390.77                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 72 63 00-0024 Replacement Filter Sets For Rooftop Oil And Grease Containment System<br><small>(07 72 63)</small><br>Note: Includes removing old filters and installing new filters.    |                           |                         |
| 07 72 63 00-0025 Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>   |                           |                         |
| 07 72 63 00-0026 Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0025)</small>                                       |                           |                         |
| 07 72 63 00-0027 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E) .....   | 254.98                    |                         |
| 07 72 63 00-0028 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E) .....   | 359.35                    |                         |
| 07 72 63 00-0029 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E) .....   | 515.89                    |                         |
| 07 72 63 00-0030 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E) .....   | 475.44                    |                         |
| 07 72 63 00-0031 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E) .....  | 892.91                    |                         |
| 07 72 63 00-0032 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E) .....  | 903.33                    |                         |
| 07 72 63 00-0033 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E) .....   | 695.90                    |                         |
| 07 72 63 00-0034 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E) ..... | 904.64                    |                         |
| 07 72 63 00-0035 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E) ..... | 1,327.32                  |                         |
| 07 72 63 00-0036 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E) ..... | 1,750.00                  |                         |
| 07 72 63 00-0037 Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>   |                           |                         |
| 07 72 63 00-0038 Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>   |                           |                         |
| 07 72 63 00-0039 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC) .....        | 533.48                    |                         |
| 07 72 63 00-0040 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC) .....        | 710.91                    |                         |
| 07 72 63 00-0041 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC) .....        | 1,034.45                  |                         |
| 07 72 63 00-0042 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC) .....        | 962.66                    |                         |
| 07 72 63 00-0043 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC) .....       | 1,854.99                  |                         |
| 07 72 63 00-0044 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC) .....       | 1,865.41                  |                         |
| 07 72 63 00-0045 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC) .....        | 1,381.41                  |                         |
| 07 72 63 00-0046 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC) .....      | 1,866.72                  |                         |
| 07 72 63 00-0047 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC) .....      | 2,738.17                  |                         |
| 07 72 63 00-0048 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC) .....      | 3,646.15                  |                         |
| 07 72 63 00-0049 Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>   |                           |                         |
| 07 72 63 00-0050 SET 48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C) .....         | 663.94                    |                         |
| 07 72 63 00-0051 SET 60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C) .....         | 825.71                    |                         |
| 07 72 63 00-0052 SET 60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C) .....         | 1,211.85                  |                         |
| 07 72 63 00-0053 SET 72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C) .....         | 1,145.31                  |                         |
| 07 72 63 00-0054 SET 72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C) .....        | 2,235.92                  |                         |
| 07 72 63 00-0055 SET 72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C) .....        | 2,225.49                  |                         |
| 07 72 63 00-0056 SET 90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C) .....         | 1,621.47                  |                         |
| 07 72 63 00-0057 SET 108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C) .....       | 2,247.65                  |                         |
| 07 72 63 00-0058 SET 120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C) .....       | 3,155.63                  |                         |
| 07 72 63 00-0059 SET 144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C) .....       | 4,392.37                  |                         |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

### 07 73 Roof Protection Board <sup>(07 70)</sup>

|                  |  |       |      |
|------------------|--|-------|------|
| 07 73 00 00-0001 | Roof Protection Board <sup>(07 73)</sup>   |       |      |
|                  | Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. |       |      |
| 07 73 00 00-0002 | Cold Adhesive Applied, Roof Protection Board (Georgia-Pacific DensDeck®) <sup>(07 73 00 00-0001)</sup>   |       |      |
| 07 73 00 00-0003 | SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....                       | 4.03  | 0.58 |
|                  | <i>For No Adhesive, Deduct</i> .....   | -0.93 |      |
| 07 73 00 00-0004 | SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....                       | 4.55  | 0.64 |
|                  | <i>For No Adhesive, Deduct</i> .....   | -0.95 |      |
| 07 73 00 00-0005 | SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®).....                       | 4.79  | 0.70 |
|                  | <i>For No Adhesive, Deduct</i> .....   | -0.97 |      |
| 07 73 00 00-0006 | SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)..... | 4.09  | 0.58 |
|                  | <i>For No Adhesive, Deduct</i> .....   | -0.93 |      |
| 07 73 00 00-0007 | SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)..... | 4.64  | 0.64 |
|                  | <i>For No Adhesive, Deduct</i> .....   | -0.95 |      |
| 07 73 00 00-0008 | SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)..... | 4.87  | 0.70 |
|                  | <i>For No Adhesive, Deduct</i> .....   | -0.97 |      |
| 07 73 00 00-0009 | Hot-Mopped, Roof Protection Board (Georgia-Pacific DensDeck®) <sup>(07 73 00 00-0001)</sup>  |       |      |
| 07 73 00 00-0010 | SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....                                  | 3.85  | 0.58 |
| 07 73 00 00-0011 | SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....                                  | 4.40  | 0.64 |
| 07 73 00 00-0012 | SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....                                  | 4.66  | 0.70 |
| 07 73 00 00-0013 | SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....            | 3.91  | 0.58 |
| 07 73 00 00-0014 | SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....            | 4.48  | 0.64 |
| 07 73 00 00-0015 | SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime).....            | 4.75  | 0.70 |
| 07 73 00 00-0016 | Mechanically Fastened, Roof Protection Board (Georgia-Pacific DensDeck®) <sup>(07 73 00 00-0001)</sup>   |       |      |
|                  | Note: Mechanically fastened to wood or steel.  |       |      |
| 07 73 00 00-0017 | SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....                       | 3.83  | 0.58 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i> .....  | 1.57  |      |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i> .....  | 2.07  |      |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i> .....   | 0.72  |      |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i> .....  | 2.83  |      |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i> .....  | 2.56  |      |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i> .....  | 1.09  |      |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i> .....   | 3.87  |      |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i> .....   | 3.84  |      |
| 07 73 00 00-0018 | SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....                       | 4.35  | 0.64 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i> .....  | 1.57  |      |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i> .....  | 2.07  |      |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i> .....   | 0.72  |      |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i> .....  | 2.91  |      |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i> .....  | 2.56  |      |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i> .....  | 1.09  |      |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i> .....   | 3.95  |      |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i> .....   | 3.84  |      |
| 07 73 00 00-0019 | SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....                       | 4.59  | 0.70 |
|                  | <i>For Mechanically Fastened To Concrete, Add</i> .....  | 1.57  |      |
|                  | <i>For Mechanically Fastened To Gypsum, Add</i> .....  | 2.07  |      |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i> .....   | 0.72  |      |
|                  | <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i> .....  | 2.97  |      |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i> .....  | 2.56  |      |
|                  | <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i> .....  | 1.09  |      |
|                  | <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i> .....   | 4.01  |      |
|                  | <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i> .....   | 3.84  |      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 73 00 00-0020 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board,<br>Mechanically Fastened (Georgia-Pacific DensDeck® Prime)..... | 3.89                      | 0.58                    |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.83                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.87                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 73 00 00-0021 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board,<br>Mechanically Fastened (Georgia-Pacific DensDeck® Prime)..... | 4.44                      | 0.64                    |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.91                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 3.95                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |
| 07 73 00 00-0022 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board,<br>Mechanically Fastened (Georgia-Pacific DensDeck® Prime)..... | 4.67                      | 0.70                    |
| <i>For Mechanically Fastened To Concrete, Add</i>  | 1.57                      |                         |
| <i>For Mechanically Fastened To Gypsum, Add</i>  | 2.07                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;90 To 120 MPH Wind, Add</i>   | 0.72                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;90 To 120 MPH Wind, Add</i>  | 2.97                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;90 To 120 MPH Wind, Add</i>  | 2.56                      |                         |
| <i>For Mechanically Fastened To Wood Or Steel, &gt;120 To 135 MPH Wind, Add</i>  | 1.09                      |                         |
| <i>For Mechanically Fastened To Concrete, &gt;120 To 135 MPH Wind, Add</i>   | 4.01                      |                         |
| <i>For Mechanically Fastened To Gypsum, &gt;120 To 135 MPH Wind, Add</i>   | 3.84                      |                         |

**07 76 Roof Pavers** (07 70)

**07 76 16 Roof Decking Pavers** (07 76)

**07 76 16 00-0001 Roof Pavers** (07 76 16)

Note: For walkway application over roofing system.

|   |       |      |
|---|-------|------|
| 07 76 16 00-0002 SF Up To 100 SF, 2" Concrete Roof Paver.....     | 12.72 | 7.41 |
| <i>For 1-1/2" Thickness, Deduct</i>                               | -1.27 |      |
| <i>For 2-1/2" Thickness, Add</i>                                  | 1.42  |      |
| <i>For 3" Thickness, Add</i>                                      | 2.85  |      |
| 07 76 16 00-0003 SF >100 To 200 SF, 2" Concrete Roof Paver.....   | 11.42 | 5.59 |
| <i>For 1-1/2" Thickness, Deduct</i>                               | -1.14 |      |
| <i>For 2-1/2" Thickness, Add</i>                                  | 1.29  |      |
| <i>For 3" Thickness, Add</i>                                      | 2.57  |      |
| 07 76 16 00-0004 SF >200 To 400 SF, 2" Concrete Roof Paver.....   | 10.69 | 4.45 |
| <i>For 1-1/2" Thickness, Deduct</i>                               | -1.07 |      |
| <i>For 2-1/2" Thickness, Add</i>                                  | 1.20  |      |
| <i>For 3" Thickness, Add</i>                                      | 2.41  |      |
| 07 76 16 00-0005 SF >400 To 1,000 SF, 2" Concrete Roof Paver..... | 10.25 | 3.88 |
| <i>For 1-1/2" Thickness, Deduct</i>                               | -1.03 |      |
| <i>For 2-1/2" Thickness, Add</i>                                  | 1.15  |      |
| <i>For 3" Thickness, Add</i>                                      | 2.31  |      |
| 07 76 16 00-0006 SF >1,000 SF, 2" Concrete Roof Paver.....        | 9.69  | 3.53 |
| <i>For 1-1/2" Thickness, Deduct</i>                               | -0.97 |      |
| <i>For 2-1/2" Thickness, Add</i>                                  | 1.09  |      |
| <i>For 3" Thickness, Add</i>                                      | 2.18  |      |

**07 76 16 00-0007 Roof Paver Pedestal** (07 76 16)

|   |       |      |
|---|-------|------|
| 07 76 16 00-0008 EA 2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator).....         | 25.56 | 1.17 |
| 07 76 16 00-0009 EA 3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator).....     | 26.72 | 1.17 |
| 07 76 16 00-0010 EA 4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator)..... | 27.90 | 1.17 |
| 07 76 16 00-0011 EA Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator).....             | 14.25 | 1.17 |
| 07 76 16 00-0012 EA Stay Bar, Used With Roof Paver Pedestals >16' High (Hanover Elevator).....                    | 12.55 | 1.17 |
| 07 76 16 00-0013 EA 5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal).....                            | 12.85 | 1.17 |
| Note: Stackable.  |       |      |
| 07 76 16 00-0014 EA 1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal.....                          | 7.25  | 1.17 |
| Note: Used with High Tab and Elevator pedestals.  |       |      |
| 07 76 16 00-0015 EA Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator).....                  | 9.56  | 1.17 |
| Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.         |       |      |

**07 76 19 Composite Insulation Concrete Protection Board** (07 76)

Note: Manufactured by T. Clear Corp. 25 year warranty.

**07 76 19 00-0001 Composite Insulation Concrete Protection Board** (07 76 19)

Note: Manufactured by T. Clear Corp. 25 year warranty.

|   |       |  |
|---|-------|--|
| 07 76 19 00-0002 SF 2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF..... | 6.01  |  |
| <i>For 20 Year Warranty, Deduct</i>   | -0.36 |  |
| <i>For 15 Year Warranty, Deduct</i>   | -0.72 |  |
| <i>For 10 Year Warranty, Deduct</i>   | -0.98 |  |
| <i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>  | 0.10  |  |

**07 Thermal And Moisture Protection**  
**07 70 Roof and Wall Specialties and Accessories**  
 07 76 Roof Pavers



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 76 19 00-0003 SF 3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF.....  | 7.86                      |                         |
| <i>For 20 Year Warranty, Deduct</i>  | -0.51                     |                         |
| <i>For 15 Year Warranty, Deduct</i>  | -1.03                     |                         |
| <i>For 10 Year Warranty, Deduct</i>  | -1.39                     |                         |
| <i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>   | 0.10                      |                         |
| 07 76 19 00-0004 SF 2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF..... | 9.23                      |                         |
| <i>For 20 Year Warranty, Deduct</i>  | -0.59                     |                         |
| <i>For 15 Year Warranty, Deduct</i>  | -1.20                     |                         |
| <i>For 10 Year Warranty, Deduct</i>  | -1.62                     |                         |
| <i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>   | 0.10                      |                         |
| 07 76 19 00-0005 SF 3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF..... | 11.16                     |                         |
| <i>For 20 Year Warranty, Deduct</i>  | -0.75                     |                         |
| <i>For 15 Year Warranty, Deduct</i>  | -1.50                     |                         |
| <i>For 10 Year Warranty, Deduct</i>  | -2.03                     |                         |
| <i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>   | 0.10                      |                         |

**07 80 Fire and Smoke Protection** <sup>(07)</sup>

**07 81 Applied Fireproofing** <sup>(07 80)</sup>

Note: Includes bonding agents as required.

**07 81 16 Cementitious Fireproofing** <sup>(07 81)</sup>

**07 81 16 00-0001 Monokote Fireproofing** <sup>(07 81 16)</sup>

|  |      |      |
|--|------|------|
| 07 81 16 00-0002 SF Monokote Fireproofing For Ceiling/Decking, Per Inch Of Thickness.....  | 2.24 | 0.76 |
| 07 81 16 00-0003 SF Monokote Fireproofing For Structural Steel, Per Inch Of Thickness..... | 3.09 | 1.14 |

**07 81 16 00-0004 Gunite Fireproofing** <sup>(07 81 16)</sup>

|  |      |      |
|--|------|------|
| 07 81 16 00-0005 SF 1" Thick, Non-Reinforced, Gunite Fireproofing..... | 3.16 | 0.77 |
| 07 81 16 00-0006 SF 1" Thick, Reinforced, Gunite Fireproofing.....     | 4.43 | 0.77 |

**07 81 23 Intumescent Fireproofing** <sup>(07 81)</sup>

**07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF)** <sup>(07 81 23)</sup>

**07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)** <sup>(07 81 23 00-0001)</sup>

Note: Excludes primer.

|  |       |  |
|--|-------|--|
| 07 81 23 00-0003 SF 1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF).....     | 17.37 |  |
| <i>For &gt;10,000, Deduct</i>  | -1.67 |  |
| 07 81 23 00-0004 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)..... | 27.94 |  |
| <i>For &gt;10,000, Deduct</i>  | -2.72 |  |

**07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)** <sup>(07 81 23 00-0001)</sup>

Note: Excludes primer.

|  |        |  |
|--|--------|--|
| 07 81 23 00-0006 SF 1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF).....     | 11.25  |  |
| <i>For &gt;10,000, Deduct</i>  | -1.05  |  |
| 07 81 23 00-0007 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)..... | 25.02  |  |
| <i>For &gt;10,000, Deduct</i>  | -2.42  |  |
| 07 81 23 00-0008 SF 2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF).....     | 56.71  |  |
| <i>For &gt;10,000, Deduct</i>  | -5.59  |  |
| 07 81 23 00-0009 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)..... | 78.09  |  |
| <i>For &gt;10,000, Deduct</i>  | -7.72  |  |
| 07 81 23 00-0010 SF 3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF).....     | 99.49  |  |
| <i>For &gt;10,000, Deduct</i>  | -9.86  |  |
| 07 81 23 00-0011 SF 3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)..... | 120.91 |  |
| <i>For &gt;10,000, Deduct</i>  | -11.99 |  |

**07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)** <sup>(07 81 23 00-0001)</sup>

Note: Excludes primer.

|   |        |  |
|---|--------|--|
| 07 81 23 00-0013 SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF).....     | 22.79  |  |
| <i>For &gt;10,000, Deduct</i>   | -2.20  |  |
| 07 81 23 00-0014 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)..... | 42.42  |  |
| <i>For &gt;10,000, Deduct</i>   | -4.16  |  |
| 07 81 23 00-0015 SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF).....     | 67.36  |  |
| <i>For &gt;10,000, Deduct</i>   | -6.65  |  |
| 07 81 23 00-0016 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)..... | 94.09  |  |
| <i>For &gt;10,000, Deduct</i>   | -9.32  |  |
| 07 81 23 00-0017 SF 3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF).....     | 119.04 |  |
| <i>For &gt;10,000, Deduct</i>   | -11.81 |  |

**07 81 23 00-0018 Intumescent Thin Film Fireproofing (Albi Clad FP)** <sup>(07 81 23)</sup>

**07 81 23 00-0019 Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)** <sup>(07 81 23 00-0018)</sup>

Note: Excludes primer.



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 81 23 00-0020 SF 1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....     | 11.03                     |                         |
| <i>For &gt;10,000, Deduct</i> .....  | -1.05                     |                         |
| 07 81 23 00-0021 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) ..... | 25.19                     |                         |
| <i>For &gt;10,000, Deduct</i> .....  | -2.46                     |                         |
| 07 81 23 00-0022 SF 2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....     | 57.80                     |                         |
| <i>For &gt;10,000, Deduct</i> .....  | -5.72                     |                         |
| 07 81 23 00-0023 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) ..... | 79.78                     |                         |
| <i>For &gt;10,000, Deduct</i> .....  | -7.91                     |                         |
| 07 81 23 00-0024 SF 3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....     | 101.79                    |                         |
| <i>For &gt;10,000, Deduct</i> .....  | -10.11                    |                         |
| <br><b>07 81 33 Mineral-Fiber Fireproofing (07 81)</b>   |                           |                         |
| 07 81 33 00-0001 Cellulose Fireproofing (07 81 33)   |                           |                         |
| 07 81 33 00-0002 SF Cellulose Fireproofing, Per Inch Of Thickness.....   | 2.75                      | 0.77                    |

**07 84 Firestopping (07 80)**

**07 84 13 Penetration Firestopping (07 84)**

**07 84 13 16 Penetration Firestopping Devices (07 84 13)**

07 84 13 16-0001 Firestopping Systems For Cable Penetrations (07 84 13 16)

07 84 13 16-0002 Intumescent Firestop Cable Sleeve For New Installations (07 84 13 16-0001)

Note: Includes putty, escutcheon plates, gaskets and bushings.

|                  |    |   |        |
|------------------|----|---|--------|
| 07 84 13 16-0003 | EA | 1" Diameter Intumescent Firestop Sleeve (STI FS100) ..... | 70.46  |
| 07 84 13 16-0004 | EA | 2" Diameter Intumescent Firestop Sleeve (STI FS201) ..... | 94.52  |
| 07 84 13 16-0005 | EA | 4" Diameter Intumescent Firestop Sleeve (STI FS401) ..... | 153.05 |

07 84 13 16-0006 Intumescent Firestop Cable Pathway For New Or Existing Cable Installations (07 84 13 16-0001)

Note: Includes pathway, putty and wall/floor mounting plates.

|                  |    |   |        |
|------------------|----|---|--------|
| 07 84 13 16-0007 | EA | 1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22) ..... | 128.12 |
| 07 84 13 16-0008 | EA | 3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS).....        | 224.39 |
| 07 84 13 16-0009 | EA | 4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44).....      | 410.40 |

07 84 13 16-0010 3M Intumescent Firestopping Multi-Trade Pass Through Device (07 84 13 16)

|                  |    |  |        |
|------------------|----|--|--------|
| 07 84 13 16-0011 | EA | 2-1/2" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD) ..... | 289.24 |
| 07 84 13 16-0012 | EA | 4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD) .....       | 267.98 |
| 07 84 13 16-0013 | EA | 4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD).....             | 276.06 |

07 84 13 16-0014 Intumescent Firestopping Pipe Collar (07 84 13 16)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 07 84 13 16-0015 | EA | 1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5) ..... | 49.12  | 15.31 |
| 07 84 13 16-0016 | EA | 2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0) .....     | 58.02  | 15.31 |
| 07 84 13 16-0017 | EA | 3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0) .....     | 67.12  | 16.85 |
| 07 84 13 16-0018 | EA | 4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0) .....     | 102.30 | 19.14 |
| 07 84 13 16-0019 | EA | 8" Intumescent Firestop Pipe Collar (Hilti CP644 8").....      | 475.60 | 22.97 |
| 07 84 13 16-0020 | EA | 10" Intumescent Firestop Pipe Collar (Hilti CP644 10").....    | 612.76 | 25.27 |

07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) (07 84 13 16)

Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.

|                  |    |   |        |
|------------------|----|---|--------|
| 07 84 13 16-0022 | EA | 12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9) .....     | 178.04 |
| 07 84 13 16-0023 | EA | 15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9) .....     | 188.53 |
| 07 84 13 16-0024 | EA | 11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH)..... | 368.00 |
| 07 84 13 16-0025 | EA | 14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3) .....     | 234.64 |

Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.

Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.

Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.

Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.

07 84 13 16-0026 Intumescent Firestopping Wrap Strips (07 84 13 16)

|                  |    |   |      |
|------------------|----|---|------|
| 07 84 13 16-0027 | LF | 1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series)..... | 7.12 |
|------------------|----|---|------|

**07 84 13 19 Penetration Firestopping Caulk (07 84 13)**



**07 Thermal And Moisture Protection****07 80 Fire and Smoke Protection****07 84 Firestopping**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

| 07 84 13 19-0001 Intumescent Firestopping For Sealing Pipe Penetrations (3M CP 25WB+) <sup>(07)</sup> |   |        |
|---|---|--------|
|   | <sup>84 13 19)</sup><br>Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more. |        |
| 07 84 13 19-0002  | EA 1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 25.58  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.08   |
| 07 84 13 19-0003  | EA 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 31.48  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.40   |
| 07 84 13 19-0004  | EA 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 31.22  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.30   |
| 07 84 13 19-0005  | EA 1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 30.80  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.13   |
| 07 84 13 19-0006  | EA 2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 36.45  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.86   |
| 07 84 13 19-0007  | EA 2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 36.19  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.76   |
| 07 84 13 19-0008  | EA 2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 35.77  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.59   |
| 07 84 13 19-0009  | EA 2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 35.11  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.33   |
| 07 84 13 19-0010  | EA 2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 34.55  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.10   |
| 07 84 13 19-0011  | EA 2-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 44.26  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 1.45   |
| 07 84 13 19-0012  | EA 2-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 44.01  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 1.35   |
| 07 84 13 19-0013  | EA 2-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 43.57  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 1.18   |
| 07 84 13 19-0014  | EA 2-1/2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 42.91  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.91   |
| 07 84 13 19-0015  | EA 2-1/2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 42.36  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.69   |
| 07 84 13 19-0016  | EA 2-1/2" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 41.03  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.16   |
| 07 84 13 19-0017  | EA 3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 60.57  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 3.91   |
| 07 84 13 19-0018  | EA 3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 55.98  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 2.07   |
| 07 84 13 19-0019  | EA 3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 55.55  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 1.90   |
| 07 84 13 19-0020  | EA 3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 54.89  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 1.64   |
| 07 84 13 19-0021  | EA 3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 54.33  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 1.41   |
| 07 84 13 19-0022  | EA 3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 53.00  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.88   |
| 07 84 13 19-0023  | EA 3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 51.28  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.19   |
| 07 84 13 19-0024  | EA 4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 81.52  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 7.21   |
| 07 84 13 19-0025  | EA 4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 81.05  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 7.02   |
| 07 84 13 19-0026  | EA 4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 80.29  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 6.72   |
| 07 84 13 19-0027  | EA 4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 79.10  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 6.24   |
| 07 84 13 19-0028  | EA 4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 78.09  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 5.84   |
| 07 84 13 19-0029  | EA 4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 70.27  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 2.71   |
| 07 84 13 19-0030  | EA 4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 68.56  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 2.03   |
| 07 84 13 19-0031  | EA 4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 65.95  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 0.98   |
| 07 84 13 19-0032  | EA 6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 130.50 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 16.64  |
| 07 84 13 19-0033  | EA 6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 130.03 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 16.45  |
| 07 84 13 19-0034  | EA 6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 129.27 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 16.15  |
| 07 84 13 19-0035  | EA 6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 128.08 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 15.67  |
| 07 84 13 19-0036  | EA 6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 127.08 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 15.27  |
| 07 84 13 19-0037  | EA 6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 124.69 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 14.32  |
| 07 84 13 19-0038  | EA 6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 121.59 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 13.08  |
| 07 84 13 19-0039  | EA 6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 116.90 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 11.20  |
| 07 84 13 19-0040  | EA 6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 99.22  |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 4.13   |
| 07 84 13 19-0041  | EA 8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....   | 173.63 |
|   | <i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 26.28  |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 07 84 13 19-0042 | EA    |     |     | 8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....<br><i>For Intumescent Sealant For Plastic Pipe, Add</i>   | 168.93<br>24.40        |                      |
| 07 84 13 19-0043 | EA    |     |     | 8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....<br><i>For Intumescent Sealant For Plastic Pipe, Add</i>   | 159.51<br>20.63        |                      |
| 07 84 13 19-0044 | EA    |     |     | 8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....<br><i>For Intumescent Sealant For Plastic Pipe, Add</i>   | 121.07<br>5.25         |                      |
| 07 84 13 19-0045 | EA    |     |     | 10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....<br><i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 221.00<br>37.60        |                      |
| 07 84 13 19-0046 | EA    |     |     | 10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....<br><i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 193.05<br>26.42        |                      |
| 07 84 13 19-0047 | EA    |     |     | 10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....<br><i>For Intumescent Sealant For Plastic Pipe, Add</i>  | 143.70<br>6.68         |                      |
| <br>             |       |     |     |   |                        |                      |
| 07 84 13 19-0048 |       |     |     | <b>Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations</b> <small>(07 84 13 19)</small><br>Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations. |                        |                      |
| 07 84 13 19-0049 | EA    |     |     | 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 30.82                  |                      |
| 07 84 13 19-0050 | EA    |     |     | 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 30.72                  |                      |
| 07 84 13 19-0051 | EA    |     |     | 1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 30.58                  |                      |
| 07 84 13 19-0052 | EA    |     |     | 2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 35.01                  |                      |
| 07 84 13 19-0053 | EA    |     |     | 2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 34.91                  |                      |
| 07 84 13 19-0054 | EA    |     |     | 2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 34.78                  |                      |
| 07 84 13 19-0055 | EA    |     |     | 2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 34.58                  |                      |
| 07 84 13 19-0056 | EA    |     |     | 2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 34.39                  |                      |
| 07 84 13 19-0057 | EA    |     |     | 2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 41.88                  |                      |
| 07 84 13 19-0058 | EA    |     |     | 2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 41.79                  |                      |
| 07 84 13 19-0059 | EA    |     |     | 2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 41.65                  |                      |
| 07 84 13 19-0060 | EA    |     |     | 2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 41.44                  |                      |
| 07 84 13 19-0061 | EA    |     |     | 2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 41.26                  |                      |
| 07 84 13 19-0062 | EA    |     |     | 2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 40.81                  |                      |
| 07 84 13 19-0063 | EA    |     |     | 3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 52.65                  |                      |
| 07 84 13 19-0064 | EA    |     |     | 3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 52.56                  |                      |
| 07 84 13 19-0065 | EA    |     |     | 3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 52.42                  |                      |
| 07 84 13 19-0066 | EA    |     |     | 3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 52.21                  |                      |
| 07 84 13 19-0067 | EA    |     |     | 3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 52.03                  |                      |
| 07 84 13 19-0068 | EA    |     |     | 3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 51.58                  |                      |
| 07 84 13 19-0069 | EA    |     |     | 3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 50.94                  |                      |
| 07 84 13 19-0070 | EA    |     |     | 4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 66.93                  |                      |
| 07 84 13 19-0071 | EA    |     |     | 4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 66.83                  |                      |
| 07 84 13 19-0072 | EA    |     |     | 4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 66.70                  |                      |
| 07 84 13 19-0073 | EA    |     |     | 4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 66.47                  |                      |
| 07 84 13 19-0074 | EA    |     |     | 4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 66.26                  |                      |
| 07 84 13 19-0075 | EA    |     |     | 4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 65.80                  |                      |
| 07 84 13 19-0076 | EA    |     |     | 4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 65.23                  |                      |
| 07 84 13 19-0077 | EA    |     |     | 4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 64.32                  |                      |
| 07 84 13 19-0078 | EA    |     |     | 6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 96.83                  |                      |
| 07 84 13 19-0079 | EA    |     |     | 6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 96.73                  |                      |
| 07 84 13 19-0080 | EA    |     |     | 6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 96.60                  |                      |
| 07 84 13 19-0081 | EA    |     |     | 6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....   | 96.39                  |                      |

**07 Thermal And Moisture Protection****07 80 Fire and Smoke Protection****07 84 Firestopping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 84 13 19-0082 EA 6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)..... | 96.21                     |                         |
| 07 84 13 19-0083 EA 6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....     | 95.76                     |                         |
| 07 84 13 19-0084 EA 6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)..... | 95.12                     |                         |
| 07 84 13 19-0085 EA 6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....     | 94.27                     |                         |
| 07 84 13 19-0086 EA 6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....     | 92.41                     |                         |
| 07 84 13 19-0087 EA 8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound)..... | 120.47                    |                         |
| 07 84 13 19-0088 EA 8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....     | 119.61                    |                         |
| 07 84 13 19-0089 EA 8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....     | 117.75                    |                         |
| 07 84 13 19-0090 EA 8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....     | 112.48                    |                         |
| 07 84 13 19-0091 EA 10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....    | 144.92                    |                         |
| 07 84 13 19-0092 EA 10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....    | 139.65                    |                         |
| 07 84 13 19-0093 EA 10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....    | 132.68                    |                         |

**07 84 16 Annular Space Firestopping Protection (07 84)****07 84 16 00-0001 Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)****07 84 16 00-0002 Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)**

|  |       |  |
|--|-------|--|
| 07 84 16 00-0003 EA 1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)..... | 39.53 |  |
| 07 84 16 00-0004 EA 2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)..... | 56.21 |  |
| 07 84 16 00-0005 EA 3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)..... | 58.74 |  |
| 07 84 16 00-0006 EA 4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)..... | 61.29 |  |
| 07 84 16 00-0007 EA 5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)..... | 63.82 |  |
| 07 84 16 00-0008 EA 6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+)..... | 80.51 |  |

**07 84 16 00-0009 Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)**

|   |       |  |
|---|-------|--|
| 07 84 16 00-0010 EA Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....     | 16.11 |  |
| 07 84 16 00-0011 EA Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....     | 16.71 |  |
| 07 84 16 00-0012 EA Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272)..... | 15.60 |  |
| 07 84 16 00-0013 EA Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270)..... | 16.75 |  |
| 07 84 16 00-0014 EA Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....      | 16.30 |  |
| 07 84 16 00-0015 EA Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....      | 15.68 |  |

**07 84 16 00-0016 Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)**

|  |       |  |
|--|-------|--|
| 07 84 16 00-0017 EA 2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249)..... | 40.09 |  |
| 07 84 16 00-0018 EA 2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269)..... | 42.99 |  |
| 07 84 16 00-0019 EA 3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369)..... | 46.57 |  |

**07 84 16 00-0020 Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)**

Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.

|   |        |  |
|---|--------|--|
| 07 84 16 00-0021 EA 16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28)..... | 367.56 |  |
| 07 84 16 00-0022 EA 36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....   | 516.24 |  |
| 07 84 16 00-0023 EA 36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....   | 697.04 |  |

**07 84 16 00-0024 Endothermic Mat Wrap Fire Barrier (07 84 16)**

Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.

|   |       |  |
|---|-------|--|
| 07 84 16 00-0025 SF 0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4)..... | 55.62 |  |
|---|-------|--|

**07 84 16 00-0026 Firestopping Caulk For Filling Opening (07 84 16)**

|  |        |  |
|--|--------|--|
| 07 84 16 00-0027 GAL Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+)..... | 153.74 |  |
|--|--------|--|

**07 84 16 00-0028 Firestopping Mortar For Filling Opening (07 84 16)**

|   |        |  |
|---|--------|--|
| 07 84 16 00-0029 CF Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series)..... | 183.02 |  |
|---|--------|--|

**07 84 23 Silicone Firestopping Foams (07 84)****07 84 23 00-0001 Silicone RTV Foam Seal For Blank Openings (07 84 23)**

Note: Includes 7" depth of silicone foam barrier and 1" depth backer board

|   |        |  |
|---|--------|--|
| 07 84 23 00-0002 EA 2" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam..... | 47.78  |  |
| 07 84 23 00-0003 EA 4" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam..... | 103.66 |  |
| 07 84 23 00-0004 EA 6" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam..... | 184.53 |  |



| MINOR   |     | TOTAL DIRECT   |           | DEMOLITION |           |
|---|-----|--|-----------|------------|-----------|
| CSI   | UOM | DESCRIPTION  | UNIT COST | UNIT COST  | UNIT COST |
| 07 84 23 00-0005  | EA  | 8" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....  | 274.34    |            |           |
| 07 84 23 00-0006  | EA  | 10" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam..... | 389.00    |            |           |
| 07 84 23 00-0007  | EA  | 12" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam..... | 525.40    |            |           |
| <b>07 84 43 Joint Firestopping</b> <sup>(07 84)</sup>   |     |  |           |            |           |
| <b>07 84 43 00-0001 Intumescent Firestopping Sealant For Joints (3M CP 25WB+)</b> <sup>(07 84 43)</sup>             |     |  |           |            |           |
| 07 84 43 00-0002  | CLF | 1/4" x 1/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 442.95    | 114.29     |           |
|   |     | <i>For Up To 6 CLF, Add</i>  | 24.65     |            |           |
|   |     | <i>For &gt;30 CLF, Deduct</i>  | -27.15    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 15.01     |            |           |
| 07 84 43 00-0003  | CLF | 1/4" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 493.03    | 114.29     |           |
|   |     | <i>For Up To 4 CLF, Add</i>  | 28.41     |            |           |
|   |     | <i>For &gt;20 CLF, Deduct</i>  | -32.16    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 22.52     |            |           |
| 07 84 43 00-0004  | CLF | 1/4" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 555.77    | 118.10     |           |
|   |     | <i>For Up To 3 CLF, Add</i>  | 32.79     |            |           |
|   |     | <i>For &gt;15 CLF, Deduct</i>  | -37.80    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 30.03     |            |           |
| 07 84 43 00-0005  | CLF | 3/8" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 580.80    | 118.10     |           |
|   |     | <i>For Up To 2.5 CLF, Add</i>  | 34.67     |            |           |
|   |     | <i>For &gt;13 CLF, Deduct</i>  | -40.30    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 33.78     |            |           |
| 07 84 43 00-0006  | CLF | 3/8" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 655.87    | 118.10     |           |
|   |     | <i>For Up To 2 CLF, Add</i>  | 40.30     |            |           |
|   |     | <i>For &gt;10 CLF, Deduct</i>  | -47.81    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 45.05     |            |           |
| 07 84 43 00-0007  | CLF | 3/8" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 730.95    | 118.10     |           |
|   |     | <i>For Up To 1.5 CLF, Add</i>  | 45.93     |            |           |
|   |     | <i>For &gt;8 CLF, Deduct</i>   | -55.32    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 56.31     |            |           |
| 07 84 43 00-0008  | CLF | 3/8" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 818.73    | 123.18     |           |
|   |     | <i>For Up To 1.3 CLF, Add</i>  | 52.20     |            |           |
|   |     | <i>For &gt;7 CLF, Deduct</i>   | -63.46    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 67.57     |            |           |
| 07 84 43 00-0009  | CLF | 1/2" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 768.67    | 123.18     |           |
|   |     | <i>For Up To 1.4 CLF, Add</i>  | 48.44     |            |           |
|   |     | <i>For &gt;7.5 CLF, Deduct</i>   | -58.45    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 60.06     |            |           |
| 07 84 43 00-0010  | CLF | 1/2" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 881.48    | 126.99     |           |
|   |     | <i>For Up To 1.15 CLF, Add</i>   | 56.59     |            |           |
|   |     | <i>For &gt;6 CLF, Deduct</i>   | -69.10    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 75.08     |            |           |
| 07 84 43 00-0011  | CLF | 1/2" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 981.58    | 126.99     |           |
|   |     | <i>For Up To 1 CLF, Add</i>  | 64.09     |            |           |
|   |     | <i>For &gt;5 CLF, Deduct</i>   | -79.11    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 90.09     |            |           |
| 07 84 43 00-0012  | CLF | 1/2" x 7/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 1,094.37  | 130.79     |           |
|   |     | <i>For Up To 0.8 CLF, Add</i>  | 72.24     |            |           |
|   |     | <i>For &gt;4.5 CLF, Deduct</i>   | -89.75    |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 105.11    |            |           |
| 07 84 43 00-0013  | CLF | 1/2" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                          | 1,207.17  | 135.87     |           |
|   |     | <i>For Up To 0.75 CLF, Add</i>   | 80.38     |            |           |
|   |     | <i>For &gt;4 CLF, Deduct</i>   | -100.40   |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 120.12    |            |           |
| 07 84 43 00-0014  | CLF | 3/4" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                        | 1,319.98  | 139.69     |           |
|   |     | <i>For Up To 0.65 CLF, Add</i>   | 88.52     |            |           |
|   |     | <i>For &gt;3.5 CLF, Deduct</i>   | -111.04   |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 135.14    |            |           |
| 07 84 43 00-0015  | CLF | 3/4" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                          | 1,658.37  | 152.39     |           |
|   |     | <i>For Up To 0.5 CLF, Add</i>  | 112.95    |            |           |
|   |     | <i>For &gt;2.5 CLF, Deduct</i>   | -142.98   |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 180.18    |            |           |
| 07 84 43 00-0016  | CLF | 1" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) .....                            | 2,109.57  | 168.89     |           |
|   |     | <i>For Up To 0.4 CLF, Add</i>  | 145.52    |            |           |
|   |     | <i>For &gt;2 CLF, Deduct</i>   | -185.56   |            |           |
|   |     | <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>                           | 240.24    |            |           |
| <b>07 84 43 00-0017 Latex-Based, Intumescent Firestop Sealant For Joints (STI SSS Series)</b> <sup>(07 84 43)</sup> |     |  |           |            |           |
| 07 84 43 00-0018  | CLF | 1/4" x 1/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....        | 456.89    | 114.29     |           |
|   |     | <i>For Up To 6 CLF, Add</i>  | 25.70     |            |           |
|   |     | <i>For &gt;30 CLF, Deduct</i>  | -28.55    |            |           |
| 07 84 43 00-0019  | CLF | 1/4" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....        | 513.90    | 114.29     |           |
|   |     | <i>For Up To 4 CLF, Add</i>  | 29.97     |            |           |
|   |     | <i>For &gt;20 CLF, Deduct</i>  | -34.25    |            |           |
| 07 84 43 00-0020  | CLF | 1/4" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....        | 583.61    | 118.10     |           |
|   |     | <i>For Up To 3 CLF, Add</i>  | 34.88     |            |           |
|   |     | <i>For &gt;15 CLF, Deduct</i>  | -40.58    |            |           |
| 07 84 43 00-0021  | CLF | 3/8" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....        | 612.11    | 118.10     |           |
|   |     | <i>For Up To 2.5 CLF, Add</i>  | 37.02     |            |           |
|   |     | <i>For &gt;13 CLF, Deduct</i>  | -43.43    |            |           |

**07 Thermal And Moisture Protection**

**07 80 Fire and Smoke Protection**

**07 84 Firestopping**



| MINOR  | CSI | UOM         | DESCRIPTION   | TOTAL DIRECT UNIT COST        | DEMOLITION UNIT COST |
|--|-----|-------------|---|-------------------------------|----------------------|
| 07 84 43 00-0022   | CLF | 3/8" x 1/2" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 2 CLF, Add</i><br><i>For &gt;10 CLF, Deduct</i>   | 697.63<br>43.43<br>-51.98     | 118.10               |
| 07 84 43 00-0023   | CLF | 3/8" x 5/8" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 1.5 CLF, Add</i><br><i>For &gt;8 CLF, Deduct</i>  | 783.14<br>49.85<br>-60.54     | 118.10               |
| 07 84 43 00-0024   | CLF | 3/8" x 3/4" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 1.3 CLF, Add</i><br><i>For &gt;7 CLF, Deduct</i>  | 881.35<br>56.89<br>-69.72     | 123.18               |
| 07 84 43 00-0025   | CLF | 1/2" x 1/2" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 1.4 CLF, Add</i><br><i>For &gt;7.5 CLF, Deduct</i>  | 824.35<br>52.62<br>-64.02     | 123.18               |
| 07 84 43 00-0026   | CLF | 1/2" x 5/8" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 1.15 CLF, Add</i><br><i>For &gt;6 CLF, Deduct</i>   | 951.06<br>61.81<br>-76.06     | 126.99               |
| 07 84 43 00-0027   | CLF | 1/2" x 3/4" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 1 CLF, Add</i><br><i>For &gt;5 CLF, Deduct</i>  | 1,065.08<br>70.36<br>-87.46   | 126.99               |
| 07 84 43 00-0028   | CLF | 1/2" x 7/8" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 0.8 CLF, Add</i><br><i>For &gt;4.5 CLF, Deduct</i>  | 1,191.79<br>79.54<br>-99.50   | 130.79               |
| 07 84 43 00-0029   | CLF | 1/2" x 1"   | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 0.75 CLF, Add</i><br><i>For &gt;4 CLF, Deduct</i>   | 1,318.51<br>88.73<br>-111.53  | 135.87               |
| 07 84 43 00-0030   | CLF | 3/4" x 3/4" | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 0.65 CLF, Add</i><br><i>For &gt;3.5 CLF, Deduct</i>   | 1,445.24<br>97.92<br>-123.57  | 139.69               |
| 07 84 43 00-0031   | CLF | 3/4" x 1"   | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 0.5 CLF, Add</i><br><i>For &gt;2.5 CLF, Deduct</i>  | 1,825.39<br>125.48<br>-159.68 | 152.39               |
| 07 84 43 00-0032   | CLF | 1" x 1"     | Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) .....<br><i>For Up To 0.4 CLF, Add</i><br><i>For &gt;2 CLF, Deduct</i>  | 2,332.25<br>162.22<br>-207.83 | 168.89               |
| <b>07 84 43 00-0033 Passive Smoke And Fire Protection Sealant For Joints (STI ES Series) <sup>(07 84</sup></b> |     |             |   |                               |                      |
| 07 84 43 00-0034   | CLF | 1/4" x 1/4" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 6 CLF, Add</i><br><i>For &gt;30 CLF, Deduct</i>    | 401.85<br>21.57<br>-23.04     | 114.29               |
| 07 84 43 00-0035   | CLF | 1/4" x 3/8" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 4 CLF, Add</i><br><i>For &gt;20 CLF, Deduct</i>    | 431.33<br>23.78<br>-25.99     | 114.29               |
| 07 84 43 00-0036   | CLF | 1/4" x 1/2" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 3 CLF, Add</i><br><i>For &gt;15 CLF, Deduct</i>    | 473.52<br>26.62<br>-29.57     | 118.10               |
| 07 84 43 00-0037   | CLF | 3/8" x 3/8" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 2.5 CLF, Add</i><br><i>For &gt;13 CLF, Deduct</i>  | 488.26<br>27.73<br>-31.05     | 118.10               |
| 07 84 43 00-0038   | CLF | 3/8" x 1/2" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 2 CLF, Add</i><br><i>For &gt;10 CLF, Deduct</i>    | 532.50<br>31.05<br>-35.47     | 118.10               |
| 07 84 43 00-0039   | CLF | 3/8" x 5/8" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 1.5 CLF, Add</i><br><i>For &gt;8 CLF, Deduct</i>   | 576.73<br>34.37<br>-39.89     | 118.10               |
| 07 84 43 00-0040   | CLF | 3/8" x 3/4" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 1.3 CLF, Add</i><br><i>For &gt;7 CLF, Deduct</i>   | 633.66<br>38.32<br>-44.95     | 123.18               |
| 07 84 43 00-0041   | CLF | 1/2" x 1/2" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 1.4 CLF, Add</i><br><i>For &gt;7.5 CLF, Deduct</i> | 604.17<br>36.11<br>-42.00     | 123.18               |
| 07 84 43 00-0042   | CLF | 1/2" x 5/8" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 1.15 CLF, Add</i><br><i>For &gt;6 CLF, Deduct</i>  | 675.85<br>41.16<br>-48.54     | 126.99               |
| 07 84 43 00-0043   | CLF | 1/2" x 3/4" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 1 CLF, Add</i><br><i>For &gt;5 CLF, Deduct</i>     | 734.82<br>45.59<br>-54.43     | 126.99               |
| 07 84 43 00-0044   | CLF | 1/2" x 7/8" | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 0.8 CLF, Add</i><br><i>For &gt;4.5 CLF, Deduct</i> | 806.49<br>50.65<br>-60.97     | 130.79               |
| 07 84 43 00-0045   | CLF | 1/2" x 1"   | Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....<br><i>For Up To 0.75 CLF, Add</i><br><i>For &gt;4 CLF, Deduct</i>  | 878.16<br>55.70<br>-67.50     | 135.87               |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 84 43 00-0046 CLF 3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)..... | 949.85                    | 139.69                  |
| For Up To 0.65 CLF, Add  | 60.76                     |                         |
| For >3.5 CLF, Deduct   | -74.03                    |                         |
| 07 84 43 00-0047 CLF 3/4" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....   | 1,164.86                  | 152.39                  |
| For Up To 0.5 CLF, Add   | 75.94                     |                         |
| For >2.5 CLF, Deduct   | -93.63                    |                         |
| 07 84 43 00-0048 CLF 1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....     | 1,451.55                  | 168.89                  |
| For Up To 0.4 CLF, Add   | 96.17                     |                         |
| For >2 CLF, Deduct   | -119.76                   |                         |
| <b>07 84 56 Fire Safing (07 84)</b>  |                           |                         |
| <b>07 84 56 13 Fibrous Fire Safing (07 84 56)</b>  |                           |                         |
| <b>07 84 56 13-0001 Thermal Barrier Wrap (07 84 56 13)</b>   |                           |                         |
| Note: Includes cutting wrap to fit pipe or conduit and sealing edges.  |                           |                         |
| 07 84 56 13-0002 SF 1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A).....   | 12.38                     |                         |
| For Work In Restricted Working Space, Add  | 1.82                      |                         |
| 07 84 56 13-0003 SF 1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A).....  | 19.19                     |                         |
| Note: Includes cutting wrap to fit pipe or conduit and sealing edges.  |                           |                         |
| For Work In Restricted Working Space, Add  | 1.82                      |                         |
| 07 84 56 13-0004 SF 2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A).....  | 20.83                     |                         |
| Note: Includes cutting wrap to fit pipe or conduit and sealing edges.  |                           |                         |
| For Work In Restricted Working Space, Add  | 1.82                      |                         |
| <b>07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing (07 84 56 13)</b>   |                           |                         |
| 07 84 56 13-0006 SF 1/2" Thermal Ceramics FireMaster Blanket Wrap.....   | 20.93                     | 12.35                   |
| For Work In Restricted Working Space, Add  | 4.96                      |                         |
| For >500 To 5,000, Deduct  | -1.84                     |                         |
| For >5,000, Deduct   | -3.28                     |                         |
| 07 84 56 13-0007 SF 1" Thermal Ceramics FireMaster Blanket Wrap.....   | 24.57                     | 12.35                   |
| For Work In Restricted Working Space, Add  | 4.96                      |                         |
| For >500 To 5,000, Deduct  | -2.67                     |                         |
| For >5,000, Deduct   | -4.63                     |                         |
| 07 84 56 13-0008 SF 1-1/2" Thermal Ceramics FireMaster Blanket Wrap.....   | 28.56                     | 12.35                   |
| For Work In Restricted Working Space, Add  | 4.96                      |                         |
| For >500 To 5,000, Deduct  | -3.59                     |                         |
| For >5,000, Deduct   | -6.10                     |                         |
| 07 84 56 13-0009 SF 2" Thermal Ceramics FireMaster Blanket Wrap.....   | 32.55                     | 12.35                   |
| For Work In Restricted Working Space, Add  | 4.96                      |                         |
| For >500 To 5,000, Deduct  | -4.51                     |                         |
| For >5,000, Deduct   | -7.58                     |                         |
| <b>07 90 Joint Protection (07)</b>   |                           |                         |
| <b>07 91 Preformed Joint Seals (07 90)</b>   |                           |                         |
| <b>07 91 23 Backer Rods (07 91)</b>  |                           |                         |
| <b>07 91 23 00-0001 Backer Rods (07 91 23)</b>   |                           |                         |
| 07 91 23 00-0002 LF 1/4" Polyethylene Or Polyurethane Backer Rod.....  | 1.96                      | 0.58                    |
| 07 91 23 00-0003 LF 3/8" Polyethylene Or Polyurethane Backer Rod.....  | 2.11                      | 0.58                    |
| 07 91 23 00-0004 LF 1/2" Polyethylene Or Polyurethane Backer Rod.....  | 2.28                      | 0.58                    |
| 07 91 23 00-0005 LF 5/8" Polyethylene Or Polyurethane Backer Rod.....  | 2.50                      | 0.58                    |
| 07 91 23 00-0006 LF 3/4" Polyethylene Or Polyurethane Backer Rod.....  | 2.60                      | 0.70                    |
| 07 91 23 00-0007 LF 7/8" Polyethylene Or Polyurethane Backer Rod.....  | 2.81                      | 0.70                    |
| 07 91 23 00-0008 LF 1" Polyethylene Or Polyurethane Backer Rod.....  | 3.25                      | 0.70                    |
| 07 91 23 00-0009 LF 1-1/4" Polyethylene Or Polyurethane Backer Rod.....  | 3.70                      | 0.82                    |
| 07 91 23 00-0010 LF 1-1/2" Polyethylene Or Polyurethane Backer Rod.....  | 4.24                      | 0.93                    |
| 07 91 23 00-0011 LF 2" Polyethylene Or Polyurethane Backer Rod.....  | 5.33                      | 1.05                    |
| 07 91 23 00-0012 LF 3" Polyethylene Or Polyurethane Backer Rod.....  | 9.40                      | 1.29                    |
| <b>07 91 26 Joint Fillers (07 91)</b>  |                           |                         |
| <b>07 91 26 00-0001 Butyl Rubber Fillers (07 91 26)</b>  |                           |                         |
| 07 91 26 00-0002 LF 1/4" x 1/4" Butyl Rubber Filler.....   | 2.72                      | 0.70                    |
| For Custom Match Coloring, Add   | 0.05                      |                         |
| 07 91 26 00-0003 LF 1/2" x 1/2" Butyl Rubber Filler.....   | 8.24                      | 2.00                    |
| For Custom Match Coloring, Add   | 0.21                      |                         |
| 07 91 26 00-0004 LF 1/2" x 3/4" Butyl Rubber Filler.....   | 10.02                     | 2.11                    |
| For Custom Match Coloring, Add   | 0.32                      |                         |
| 07 91 26 00-0005 LF 3/4" x 3/4" Butyl Rubber Filler.....   | 10.98                     | 2.23                    |
| 07 91 26 00-0006 LF 1" x 1" Butyl Rubber Filler.....   | 14.87                     | 4.11                    |
| <b>07 91 26 00-0007 Closed Cell Neoprene (07 91 26)</b>  |                           |                         |
| 07 91 26 00-0008 CLF 1/8" x 3" Neoprene Gasket Closed Cell, Adhesive.....  | 466.27                    | 135.30                  |

**07 Thermal And Moisture Protection****07 90 Joint Protection****07 91 Prefomed Joint Seals**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 91 26 00-0009 CLF 1/8" x 6" Neoprene Gasket Closed Cell, Adhesive .....   | 743.42                    | 195.44                  |
| 07 91 26 00-0010 CLF 1/4" x 3" Neoprene Gasket Closed Cell, Adhesive .....   | 596.46                    | 167.54                  |
| 07 91 26 00-0011 CLF 1/4" x 6" Neoprene Gasket Closed Cell, Adhesive .....   | 683.41                    | 175.86                  |
| 07 91 26 00-0012 CLF 1/2" x 6" Neoprene Gasket Closed Cell, Adhesive .....   | 1,043.19                  | 270.59                  |
| 07 91 26 00-0013 CLF 1/2" x 9" Neoprene Gasket Closed Cell, Adhesive .....   | 1,190.18                  | 293.11                  |
| 07 91 26 00-0014 CLF 1/2" x 12" Neoprene Gasket Closed Cell, Adhesive.....   | 1,065.27                  | 213.15                  |
| <b>07 91 26 00-0015 Closed Cell Polyvinyl Chloride (07 91 26)</b>  |                           |                         |
| 07 91 26 00-0016 CLF 1/8" x 3" Polyethylene Joint Backing, Closed Cell.....  | 475.69                    | 167.54                  |
| 07 91 26 00-0017 CLF 1/8" x 6" Polyethylene Joint Backing, Closed Cell.....  | 799.95                    | 270.59                  |
| 07 91 26 00-0018 CLF 1/4" x 3" Polyethylene Joint Backing, Closed Cell.....  | 620.53                    | 230.96                  |
| 07 91 26 00-0019 CLF 1/4" x 6" Polyethylene Joint Backing, Closed Cell.....  | 743.07                    | 243.86                  |
| 07 91 26 00-0020 CLF 1/2" x 6" Polyethylene Joint Backing, Closed Cell.....  | 1,131.65                  | 374.00                  |
| 07 91 26 00-0021 CLF 1/2" x 9" Polyethylene Joint Backing, Closed Cell.....  | 1,321.03                  | 405.89                  |
| 07 91 26 00-0022 CLF 1/2" x 12" Polyethylene Joint Backing, Closed Cell .....  | 1,743.48                  | 486.55                  |
| <b>07 91 26 00-0023 Silicon RTV Foam Penetration Seal (07 91 26)</b>   |                           |                         |
| 07 91 26 00-0024 CLF 1/4" x 1/2" Silicon RTV Foam Seal.....  | 158.20                    | 26.85                   |
| 07 91 26 00-0025 CLF 1/2" x 1/2" Silicon RTV Foam Seal.....  | 316.40                    | 53.58                   |
| 07 91 26 00-0026 CLF 1/2" x 3/4" Silicon RTV Foam Seal.....  | 471.58                    | 79.61                   |
| 07 91 26 00-0027 CLF 3/4" x 3/4" Silicon RTV Foam Seal.....  | 667.26                    | 107.28                  |
| 07 91 26 00-0028 CLF 1/8" x 1" Silicon RTV Foam Seal.....  | 158.20                    | 26.85                   |
| 07 91 26 00-0029 CLF 1/8" x 3" Silicon RTV Foam Seal.....  | 471.10                    | 79.38                   |
| 07 91 26 00-0030 CLF 1/4" x 3" Silicon RTV Foam Seal.....  | 810.24                    | 119.23                  |
| 07 91 26 00-0031 CLF 1/4" x 6" Silicon RTV Foam Seal.....  | 1,618.37                  | 237.65                  |
| 07 91 26 00-0032 CLF 1/2" x 6" Silicon RTV Foam Seal.....  | 3,075.24                  | 428.99                  |
| 07 91 26 00-0033 CLF 1/2" x 9" Silicon RTV Foam Seal.....  | 4,699.10                  | 670.15                  |
| 07 91 26 00-0034 CLF 1/2" x 12" Silicon RTV Foam Seal .....  | 6,879.20                  | 1,072.29                |
| <b>07 91 26 00-0035 Seals O-Ring Type Cord "J-Seal" (07 91 26)</b>   |                           |                         |
| 07 91 26 00-0036 LF 1/4" Seals O-Ring Cord, J-Seal .....   | 5.00                      | 1.53                    |
| 07 91 26 00-0037 LF 1/2" Seals O-Ring Cord, J-Seal .....   | 5.30                      | 1.53                    |
| 07 91 26 00-0038 LF 3/4" Seals O-Ring Cord, J-Seal .....   | 5.57                      | 1.64                    |
| 07 91 26 00-0039 LF 1" Seals O-Ring Cord, J-Seal .....   | 5.87                      | 1.76                    |
| 07 91 26 00-0040 LF 1-1/4" Seals O-Ring Cord, J-Seal.....  | 6.28                      | 1.88                    |
| 07 91 26 00-0041 LF 1-1/2" Seals O-Ring Cord, J-Seal.....  | 6.57                      | 1.88                    |
| 07 91 26 00-0042 LF 1-3/4" Seals O-Ring Cord, J-Seal .....   | 6.95                      | 2.00                    |
| 07 91 26 00-0043 LF 2" Seals O-Ring Cord, J-Seal .....   | 7.17                      | 2.00                    |
| <b>07 91 33 Expansion Joint Seal Systems (07 91)</b>   |                           |                         |
| <b>07 91 33 00-0001 Expansion Joint Seal Systems (Wabo®) (07 91 33)</b>  |                           |                         |
| <b>07 91 33 00-0002 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)</b>   |                           |                         |
| Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.  |                           |                         |
| 07 91 33 00-0003 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH) .....                | 95.43                     | 8.06                    |
| 07 91 33 00-0004 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH) .....                | 127.82                    | 8.44                    |
| 07 91 33 00-0005 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH).....                       | 161.97                    | 8.83                    |
| 07 91 33 00-0006 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH) .....              | 199.98                    | 9.21                    |
| 07 91 33 00-0007 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH) .....              | 259.58                    | 9.59                    |
| 07 91 33 00-0008 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH) .....              | 298.23                    | 9.97                    |
| 07 91 33 00-0009 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH).....                      | 346.16                    | 10.36                   |
| <b>07 91 33 00-0010 Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)</b>                                    |                           |                         |
| Note: Includes prefomed neoprene joint seal and lubricant adhesive.  |                           |                         |
| 07 91 33 00-0011 LF 0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162) ..... | 48.53                     | 8.06                    |
| 07 91 33 00-0012 LF 0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175) ..... | 53.02                     | 8.17                    |
| 07 91 33 00-0013 LF 0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200) ..... | 64.22                     | 8.29                    |
| 07 91 33 00-0014 LF 0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225) ..... | 68.17                     | 8.44                    |
| 07 91 33 00-0015 LF 1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250) ..... | 72.88                     | 8.55                    |
| 07 91 33 00-0016 LF 1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300) ..... | 89.46                     | 8.67                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 07 91 33 00-0017 LF 1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350).....    | 110.49                    | 8.83                    |
| 07 91 33 00-0018 LF 1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400).....    | 130.78                    | 9.21                    |
| 07 91 33 00-0019 LF 1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500).....    | 148.13                    | 9.59                    |
| <b>07 91 33 00-0020 Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)</b>                                     |                           |                         |
| Note: Includes preformed Santoprene® joint seal and lubricant adhesive.   |                           |                         |
| 07 91 33 00-0021 LF 0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100).....   | 40.54                     | 8.06                    |
| 07 91 33 00-0022 LF 0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225).....   | 52.83                     | 8.44                    |
| 07 91 33 00-0023 LF 1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250).....   | 64.92                     | 8.83                    |
| 07 91 33 00-0024 LF 1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300).....   | 68.58                     | 9.02                    |
| 07 91 33 00-0025 LF 1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400).....   | 76.13                     | 9.21                    |
| 07 91 33 00-0026 LF 1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500).....   | 109.46                    | 9.59                    |
| 07 91 33 00-0027 LF 1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600).....   | 150.70                    | 9.97                    |
| <b>07 91 33 00-0028 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001)</b>                                    |                           |                         |
| Note: Includes a pre-compressed foam seal and silicone sealant.   |                           |                         |
| 07 91 33 00-0029 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100).....   | 35.34                     | 3.20                    |
| 07 91 33 00-0030 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150).....   | 59.36                     | 3.33                    |
| 07 91 33 00-0031 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200).....         | 89.43                     | 3.45                    |
| 07 91 33 00-0032 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250)..... | 112.79                    | 3.58                    |
| 07 91 33 00-0033 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300)..... | 148.48                    | 3.71                    |
| 07 91 33 00-0034 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350)..... | 196.47                    | 3.84                    |
| 07 91 33 00-0035 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400).....         | 241.00                    | 3.97                    |
| 07 91 33 00-0036 LF 2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500)..... | 325.09                    | 4.09                    |
| 07 91 33 00-0037 LF 3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600).....         | 379.56                    | 4.22                    |
| <b>07 91 33 00-0038 Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II) (07 91 33 00-0001)</b>                                       |                           |                         |
| Note: Includes a pre-compressed foam seal and silicone sealant.   |                           |                         |
| 07 91 33 00-0039 LF 0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100).....       | 34.47                     | 3.20                    |
| 07 91 33 00-0040 LF 1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150).....       | 45.53                     | 3.33                    |
| 07 91 33 00-0041 LF 1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200).....       | 61.13                     | 3.45                    |
| 07 91 33 00-0042 LF 1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250).....       | 82.98                     | 3.58                    |
| 07 91 33 00-0043 LF 2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300).....       | 94.69                     | 3.71                    |
| 07 91 33 00-0044 LF 2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....       | 131.45                    | 3.84                    |
| 07 91 33 00-0045 LF 3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....       | 176.63                    | 3.97                    |
| 07 91 33 00-0046 LF 3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....       | 190.72                    | 4.09                    |

**07 92 Joint Sealants (07 90)**

**07 92 13 Elastomeric Joint Sealants (07 92)**

**07 92 13 00-0001 Silicone Sealant And Caulking (07 92 13)**

|  |        |        |
|--|--------|--------|
| 07 92 13 00-0002 CLF 1/4" x 1/4" Joint, Silicone Sealant And Caulking..... | 398.68 | 114.29 |
| For Custom Match Coloring, Add   | 13.39  |        |
| For Up To 6 CLF, Add   | 21.33  |        |
| For >30 CLF, Deduct  | -22.72 |        |
| For 1 Part Mildew Resistant, Add   | 19.53  |        |
| For High-Modulus Non-Acid Curing, Add                                      | 11.16  |        |



**07 Thermal And Moisture Protection****07 90 Joint Protection****07 92 Joint Sealants**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 07 92 13 00-0003 | CLF |     | 1/4" x 3/8" Joint, Silicone Sealant And Caulking ..... | 426.59                 | 114.29               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 20.09                  |                      |
|                  |     |     | <i>For Up To 4 CLF, Add</i>                            | 23.42                  |                      |
|                  |     |     | <i>For &gt;20 CLF, Deduct</i>                          | -25.52                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 29.30                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 16.74                  |                      |
| 07 92 13 00-0004 | CLF |     | 1/4" x 1/2" Joint, Silicone Sealant And Caulking ..... | 467.19                 | 118.10               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 26.79                  |                      |
|                  |     |     | <i>For Up To 3 CLF, Add</i>                            | 26.15                  |                      |
|                  |     |     | <i>For &gt;15 CLF, Deduct</i>                          | -28.94                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 39.07                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 22.32                  |                      |
| 07 92 13 00-0005 | CLF |     | 3/8" x 3/8" Joint, Silicone Sealant And Caulking ..... | 481.14                 | 118.10               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 30.14                  |                      |
|                  |     |     | <i>For Up To 2.5 CLF, Add</i>                          | 27.20                  |                      |
|                  |     |     | <i>For &gt;13 CLF, Deduct</i>                          | -30.34                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 43.95                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 25.11                  |                      |
| 07 92 13 00-0006 | CLF |     | 3/8" x 1/2" Joint, Silicone Sealant And Caulking ..... | 523.00                 | 118.10               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 40.18                  |                      |
|                  |     |     | <i>For Up To 2 CLF, Add</i>                            | 30.34                  |                      |
|                  |     |     | <i>For &gt;10 CLF, Deduct</i>                          | -34.52                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 58.60                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 33.49                  |                      |
| 07 92 13 00-0007 | CLF |     | 3/8" x 5/8" Joint, Silicone Sealant And Caulking ..... | 564.86                 | 118.10               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 50.23                  |                      |
|                  |     |     | <i>For Up To 1.5 CLF, Add</i>                          | 33.48                  |                      |
|                  |     |     | <i>For &gt;8 CLF, Deduct</i>                           | -38.71                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 73.25                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 41.86                  |                      |
| 07 92 13 00-0008 | CLF |     | 3/8" x 3/4" Joint, Silicone Sealant And Caulking ..... | 619.42                 | 123.18               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 60.28                  |                      |
|                  |     |     | <i>For Up To 1.3 CLF, Add</i>                          | 37.25                  |                      |
|                  |     |     | <i>For &gt;7 CLF, Deduct</i>                           | -43.53                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 87.90                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 50.23                  |                      |
| 07 92 13 00-0009 | CLF |     | 1/2" x 1/2" Joint, Silicone Sealant And Caulking ..... | 591.51                 | 123.18               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 53.58                  |                      |
|                  |     |     | <i>For Up To 1.4 CLF, Add</i>                          | 35.16                  |                      |
|                  |     |     | <i>For &gt;7.5 CLF, Deduct</i>                         | -40.74                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 78.13                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 44.65                  |                      |
| 07 92 13 00-0010 | CLF |     | 1/2" x 5/8" Joint, Silicone Sealant And Caulking ..... | 660.02                 | 126.99               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 66.97                  |                      |
|                  |     |     | <i>For Up To 1.15 CLF, Add</i>                         | 39.98                  |                      |
|                  |     |     | <i>For &gt;6 CLF, Deduct</i>                           | -46.95                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 97.67                  |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 55.81                  |                      |
| 07 92 13 00-0011 | CLF |     | 1/2" x 3/4" Joint, Silicone Sealant And Caulking ..... | 715.83                 | 126.99               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 80.37                  |                      |
|                  |     |     | <i>For Up To 1 CLF, Add</i>                            | 44.16                  |                      |
|                  |     |     | <i>For &gt;5 CLF, Deduct</i>                           | -52.53                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 117.20                 |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 66.97                  |                      |
| 07 92 13 00-0012 | CLF |     | 1/2" x 7/8" Joint, Silicone Sealant And Caulking ..... | 784.33                 | 130.79               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 93.76                  |                      |
|                  |     |     | <i>For Up To 0.8 CLF, Add</i>                          | 48.98                  |                      |
|                  |     |     | <i>For &gt;4.5 CLF, Deduct</i>                         | -58.75                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 136.73                 |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 78.13                  |                      |
| 07 92 13 00-0013 | CLF |     | 1/2" x 1" Joint, Silicone Sealant And Caulking .....   | 852.84                 | 135.87               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 107.16                 |                      |
|                  |     |     | <i>For Up To 0.75 CLF, Add</i>                         | 53.80                  |                      |
|                  |     |     | <i>For &gt;4 CLF, Deduct</i>                           | -64.97                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 156.27                 |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 89.30                  |                      |
| 07 92 13 00-0014 | CLF |     | 3/4" x 3/4" Joint, Silicone Sealant And Caulking ..... | 921.36                 | 139.69               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 120.55                 |                      |
|                  |     |     | <i>For Up To 0.65 CLF, Add</i>                         | 58.63                  |                      |
|                  |     |     | <i>For &gt;3.5 CLF, Deduct</i>                         | -71.18                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 175.80                 |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 100.46                 |                      |
| 07 92 13 00-0015 | CLF |     | 3/4" x 1" Joint, Silicone Sealant And Caulking .....   | 1,126.88               | 152.39               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 160.73                 |                      |
|                  |     |     | <i>For Up To 0.5 CLF, Add</i>                          | 73.09                  |                      |
|                  |     |     | <i>For &gt;2.5 CLF, Deduct</i>                         | -89.83                 |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 234.40                 |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 133.94                 |                      |
| 07 92 13 00-0016 | CLF |     | 1" x 1" Joint, Silicone Sealant And Caulking .....     | 1,400.91               | 168.89               |
|                  |     |     | <i>For Custom Match Coloring, Add</i>                  | 214.31                 |                      |
|                  |     |     | <i>For Up To 0.4 CLF, Add</i>                          | 92.37                  |                      |
|                  |     |     | <i>For &gt;2 CLF, Deduct</i>                           | -114.69                |                      |
|                  |     |     | <i>For 1 Part Mildew Resistant, Add</i>                | 312.54                 |                      |
|                  |     |     | <i>For High-Modulus Non-Acid Curing, Add</i>           | 178.59                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>07 92 13 00-0017 Acrylic/Latex Sealant And Caulking</b> <small>(07 92 13)</small> |                           |                         |
| 07 92 13 00-0018 CLF 1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking .....     | 362.45                    | 114.29                  |
| For Up To 6 CLF, Add   | 18.61                     |                         |
| For >30 CLF, Deduct  | -19.10                    |                         |
| 07 92 13 00-0019 CLF 1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking .....     | 372.24                    | 114.29                  |
| For Up To 4 CLF, Add   | 19.35                     |                         |
| For >20 CLF, Deduct  | -20.08                    |                         |
| 07 92 13 00-0020 CLF 1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking .....     | 394.73                    | 118.10                  |
| For Up To 3 CLF, Add   | 20.72                     |                         |
| For >15 CLF, Deduct  | -21.69                    |                         |
| 07 92 13 00-0021 CLF 3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking .....     | 399.62                    | 118.10                  |
| For Up To 2.5 CLF, Add   | 21.08                     |                         |
| For >13 CLF, Deduct  | -22.18                    |                         |
| 07 92 13 00-0022 CLF 3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking .....     | 414.31                    | 118.10                  |
| For Up To 2 CLF, Add   | 22.18                     |                         |
| For >10 CLF, Deduct  | -23.65                    |                         |
| 07 92 13 00-0023 CLF 3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking .....     | 428.99                    | 118.10                  |
| For Up To 1.5 CLF, Add   | 23.29                     |                         |
| For >8 CLF, Deduct   | -25.12                    |                         |
| 07 92 13 00-0024 CLF 3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking .....     | 456.38                    | 123.18                  |
| For Up To 1.3 CLF, Add   | 25.02                     |                         |
| For >7 CLF, Deduct   | -27.22                    |                         |
| 07 92 13 00-0025 CLF 1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking .....     | 446.59                    | 123.18                  |
| For Up To 1.4 CLF, Add   | 24.29                     |                         |
| For >7.5 CLF, Deduct   | -26.25                    |                         |
| 07 92 13 00-0026 CLF 1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking .....     | 478.87                    | 126.99                  |
| For Up To 1.15 CLF, Add  | 26.39                     |                         |
| For >6 CLF, Deduct   | -28.84                    |                         |
| 07 92 13 00-0027 CLF 1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking .....     | 498.45                    | 126.99                  |
| For Up To 1 CLF, Add   | 27.86                     |                         |
| For >5 CLF, Deduct   | -30.80                    |                         |
| 07 92 13 00-0028 CLF 1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking .....     | 530.72                    | 130.79                  |
| For Up To 0.8 CLF, Add   | 29.96                     |                         |
| For >4.5 CLF, Deduct   | -33.39                    |                         |
| 07 92 13 00-0029 CLF 1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking .....       | 563.00                    | 135.87                  |
| For Up To 0.75 CLF, Add  | 32.07                     |                         |
| For >4 CLF, Deduct   | -35.98                    |                         |
| 07 92 13 00-0030 CLF 3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking .....     | 595.29                    | 139.69                  |
| For Up To 0.65 CLF, Add  | 34.17                     |                         |
| For >3.5 CLF, Deduct   | -38.58                    |                         |
| 07 92 13 00-0031 CLF 3/4" x 1" Joint, Acrylic/Latex Sealant And Caulking .....       | 692.12                    | 152.39                  |
| For Up To 0.5 CLF, Add   | 40.48                     |                         |
| For >2.5 CLF, Deduct   | -46.35                    |                         |
| 07 92 13 00-0032 CLF 1" x 1" Joint, Acrylic/Latex Sealant And Caulking .....         | 821.23                    | 168.89                  |
| For Up To 0.4 CLF, Add   | 48.89                     |                         |
| For >2 CLF, Deduct   | -56.73                    |                         |
| <b>07 92 13 00-0033 Polyurethane Sealant And Caulking</b> <small>(07 92 13)</small>  |                           |                         |
| Note: 1 or 2 part, non-sag.  |                           |                         |
| 07 92 13 00-0034 CLF 1/4" x 1/4" Joint, Polyurethane Sealant And Caulking .....      | 385.67                    | 114.29                  |
| For Up To 6 CLF, Add   | 20.35                     |                         |
| For >30 CLF, Deduct  | -21.42                    |                         |
| 07 92 13 00-0035 CLF 1/4" x 3/8" Joint, Polyurethane Sealant And Caulking .....      | 407.08                    | 114.29                  |
| For Up To 4 CLF, Add   | 21.96                     |                         |
| For >20 CLF, Deduct  | -23.56                    |                         |
| 07 92 13 00-0036 CLF 1/4" x 1/2" Joint, Polyurethane Sealant And Caulking .....      | 441.18                    | 118.10                  |
| For Up To 3 CLF, Add   | 24.20                     |                         |
| For >15 CLF, Deduct  | -26.34                    |                         |
| 07 92 13 00-0037 CLF 3/8" x 3/8" Joint, Polyurethane Sealant And Caulking .....      | 451.88                    | 118.10                  |
| For Up To 2.5 CLF, Add   | 25.00                     |                         |
| For >13 CLF, Deduct  | -27.41                    |                         |
| 07 92 13 00-0038 CLF 3/8" x 1/2" Joint, Polyurethane Sealant And Caulking .....      | 483.98                    | 118.10                  |
| For Up To 2 CLF, Add   | 27.41                     |                         |
| For >10 CLF, Deduct  | -30.62                    |                         |
| 07 92 13 00-0039 CLF 3/8" x 5/8" Joint, Polyurethane Sealant And Caulking .....      | 516.09                    | 118.10                  |
| For Up To 1.5 CLF, Add   | 29.82                     |                         |
| For >8 CLF, Deduct   | -33.83                    |                         |
| 07 92 13 00-0040 CLF 3/8" x 3/4" Joint, Polyurethane Sealant And Caulking .....      | 560.89                    | 123.18                  |
| For Up To 1.3 CLF, Add   | 32.86                     |                         |
| For >7 CLF, Deduct   | -37.68                    |                         |
| 07 92 13 00-0041 CLF 1/2" x 1/2" Joint, Polyurethane Sealant And Caulking .....      | 539.49                    | 123.18                  |
| For Up To 1.4 CLF, Add   | 31.26                     |                         |
| For >7.5 CLF, Deduct   | -35.54                    |                         |
| 07 92 13 00-0042 CLF 1/2" x 5/8" Joint, Polyurethane Sealant And Caulking .....      | 594.99                    | 126.99                  |
| For Up To 1.15 CLF, Add  | 35.10                     |                         |
| For >6 CLF, Deduct   | -40.45                    |                         |
| 07 92 13 00-0043 CLF 1/2" x 3/4" Joint, Polyurethane Sealant And Caulking .....      | 637.80                    | 126.99                  |
| For Up To 1 CLF, Add   | 38.31                     |                         |
| For >5 CLF, Deduct   | -44.73                    |                         |
| 07 92 13 00-0044 CLF 1/2" x 7/8" Joint, Polyurethane Sealant And Caulking .....      | 693.29                    | 130.79                  |
| For Up To 0.8 CLF, Add   | 42.16                     |                         |
| For >4.5 CLF, Deduct   | -49.65                    |                         |

**07 Thermal And Moisture Protection****07 90 Joint Protection****07 92 Joint Sealants**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|-----------------------------|-------------------------|
| 07 92 13 00-0045 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking.....<br><i>For Up To 0.75 CLF, Add</i><br><i>For &gt;4 CLF, Deduct</i>                       | 748.80<br>46.00<br>-54.56   | 135.87                  |
| 07 92 13 00-0046 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking.....<br><i>For Up To 0.65 CLF, Add</i><br><i>For &gt;3.5 CLF, Deduct</i>                   | 804.31<br>49.85<br>-59.48   | 139.69                  |
| 07 92 13 00-0047 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking.....<br><i>For Up To 0.5 CLF, Add</i><br><i>For &gt;2.5 CLF, Deduct</i>                      | 970.81<br>61.38<br>-74.22   | 152.39                  |
| <b>07 92 13 00-0048 Flexible Polysulfide Sealant And Caulking, Clear (07 92 13)</b><br>Note: 1 or 2 part, non-sag.   |                             |                         |
| 07 92 13 00-0049 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 6 CLF, Add</i><br><i>For &gt;30 CLF, Deduct</i>                       | 389.74<br>20.66<br>-21.83   | 114.29                  |
| 07 92 13 00-0050 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 4 CLF, Add</i><br><i>For &gt;20 CLF, Deduct</i>                       | 413.19<br>22.42<br>-24.18   | 114.29                  |
| 07 92 13 00-0051 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 3 CLF, Add</i><br><i>For &gt;15 CLF, Deduct</i>                       | 449.32<br>24.81<br>-27.15   | 118.10                  |
| 07 92 13 00-0052 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 2.5 CLF, Add</i><br><i>For &gt;13 CLF, Deduct</i>                     | 461.04<br>25.69<br>-28.33   | 118.10                  |
| 07 92 13 00-0053 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 2 CLF, Add</i><br><i>For &gt;10 CLF, Deduct</i>                       | 496.21<br>28.33<br>-31.84   | 118.10                  |
| 07 92 13 00-0054 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 1.5 CLF, Add</i><br><i>For &gt;8 CLF, Deduct</i>                      | 531.36<br>30.96<br>-35.36   | 118.10                  |
| 07 92 13 00-0055 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 1.3 CLF, Add</i><br><i>For &gt;7 CLF, Deduct</i>                      | 579.21<br>34.23<br>-39.51   | 123.18                  |
| 07 92 13 00-0056 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 1.4 CLF, Add</i><br><i>For &gt;7.5 CLF, Deduct</i>                    | 555.78<br>32.48<br>-37.16   | 123.18                  |
| 07 92 13 00-0057 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 1.15 CLF, Add</i><br><i>For &gt;6 CLF, Deduct</i>                     | 615.36<br>36.63<br>-42.49   | 126.99                  |
| 07 92 13 00-0058 CLF 1/2" x 3/4" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 1 CLF, Add</i><br><i>For &gt;5 CLF, Deduct</i>                        | 662.23<br>40.14<br>-47.17   | 126.99                  |
| 07 92 13 00-0059 CLF 1/2" x 7/8" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 0.8 CLF, Add</i><br><i>For &gt;4.5 CLF, Deduct</i>                    | 721.81<br>44.29<br>-52.50   | 130.79                  |
| 07 92 13 00-0060 CLF 1/2" x 1" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 0.75 CLF, Add</i><br><i>For &gt;4 CLF, Deduct</i>                       | 781.37<br>48.44<br>-57.82   | 135.87                  |
| 07 92 13 00-0061 CLF 3/4" x 3/4" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 0.65 CLF, Add</i><br><i>For &gt;3.5 CLF, Deduct</i>                   | 840.97<br>52.60<br>-63.14   | 139.69                  |
| 07 92 13 00-0062 CLF 3/4" x 1" Joint, Polysulfide Sealant And Caulking .....<br><i>For Up To 0.5 CLF, Add</i><br><i>For &gt;2.5 CLF, Deduct</i>                      | 1,019.68<br>65.05<br>-79.11 | 152.39                  |
| <b>07 92 13 00-0063 Flexible Polyurethane Security Sealant And Caulking (07 92 13)</b><br>Note: 1 or 2 part, non-sag.  |                             |                         |
| 07 92 13 00-0064 CLF 1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 6 CLF, Add</i><br><i>For &gt;30 CLF, Deduct</i>    | 399.68<br>21.40<br>-22.82   | 114.29                  |
| 07 92 13 00-0065 CLF 1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 4 CLF, Add</i><br><i>For &gt;20 CLF, Deduct</i>    | 428.09<br>23.54<br>-25.67   | 114.29                  |
| 07 92 13 00-0066 CLF 1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 3 CLF, Add</i><br><i>For &gt;15 CLF, Deduct</i>    | 469.19<br>26.30<br>-29.14   | 118.10                  |
| 07 92 13 00-0067 CLF 3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 2.5 CLF, Add</i><br><i>For &gt;13 CLF, Deduct</i>  | 483.39<br>27.37<br>-30.56   | 118.10                  |
| 07 92 13 00-0068 CLF 3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 2 CLF, Add</i><br><i>For &gt;10 CLF, Deduct</i>    | 526.00<br>30.56<br>-34.82   | 118.10                  |
| 07 92 13 00-0069 CLF 3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 1.5 CLF, Add</i><br><i>For &gt;8 CLF, Deduct</i>   | 568.61<br>33.76<br>-39.08   | 118.10                  |
| 07 92 13 00-0070 CLF 3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 1.3 CLF, Add</i><br><i>For &gt;7 CLF, Deduct</i>   | 623.92<br>37.59<br>-43.98   | 123.18                  |
| 07 92 13 00-0071 CLF 1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 1.4 CLF, Add</i><br><i>For &gt;7.5 CLF, Deduct</i> | 595.51<br>35.46<br>-41.14   | 123.18                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 07 92 13 00-0072 CLF 1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 1.15 CLF, Add</i><br><i>For &gt;6 CLF, Deduct</i>   | 665.02<br>40.35<br>-47.45   | 126.99                  |
| 07 92 13 00-0073 CLF 1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 1 CLF, Add</i><br><i>For &gt;5 CLF, Deduct</i>      | 721.83<br>44.61<br>-53.13   | 126.99                  |
| 07 92 13 00-0074 CLF 1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 0.8 CLF, Add</i><br><i>For &gt;4.5 CLF, Deduct</i>  | 791.33<br>49.51<br>-59.45   | 130.79                  |
| 07 92 13 00-0075 CLF 1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 0.75 CLF, Add</i><br><i>For &gt;4 CLF, Deduct</i>     | 860.84<br>54.40<br>-65.77   | 135.87                  |
| 07 92 13 00-0076 CLF 3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 0.65 CLF, Add</i><br><i>For &gt;3.5 CLF, Deduct</i> | 930.36<br>59.30<br>-72.08   | 139.69                  |
| 07 92 13 00-0077 CLF 3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking .....<br><i>For Up To 0.5 CLF, Add</i><br><i>For &gt;2.5 CLF, Deduct</i>    | 1,138.89<br>73.99<br>-91.03 | 152.39                  |

**07 92 19 Acoustical Joint Sealants** (07 92)

**07 92 19 00-0001 Acoustical Sealant** (07 92 19)

|   |  |        |
|---|--|--------|
| 07 92 19 00-0002 CLF 1/4" x 1/4" Joint, Acoustical Sealant .....<br><i>For Custom Match Coloring, Add</i><br><i>For Up To 6 CLF, Add</i><br><i>For &gt;30 CLF, Deduct</i><br><i>For 1 Part Mildew Resistant, Add</i><br><i>For High-Modulus Non-Acid Curing, Add</i>    | 393.61<br>12.18<br>20.95<br>-22.22<br>17.76<br>10.15 | 114.29 |
| 07 92 19 00-0003 CLF 1/4" x 3/8" Joint, Acoustical Sealant .....<br><i>For Custom Match Coloring, Add</i><br><i>For Up To 4 CLF, Add</i><br><i>For &gt;20 CLF, Deduct</i><br><i>For 1 Part Mildew Resistant, Add</i><br><i>For High-Modulus Non-Acid Curing, Add</i>    | 412.88<br>16.80<br>22.39<br>-24.14<br>24.50<br>14.00 | 114.29 |
| 07 92 19 00-0004 CLF 1/4" x 1/2" Joint, Acoustical Sealant .....<br><i>For Custom Match Coloring, Add</i><br><i>For Up To 3 CLF, Add</i><br><i>For &gt;15 CLF, Deduct</i><br><i>For 1 Part Mildew Resistant, Add</i><br><i>For High-Modulus Non-Acid Curing, Add</i>    | 436.93<br>19.53<br>23.88<br>-25.91<br>28.48<br>16.27 | 118.10 |
| 07 92 19 00-0005 CLF 3/8" x 3/8" Joint, Acoustical Sealant .....<br><i>For Custom Match Coloring, Add</i><br><i>For Up To 2.5 CLF, Add</i><br><i>For &gt;13 CLF, Deduct</i><br><i>For 1 Part Mildew Resistant, Add</i><br><i>For High-Modulus Non-Acid Curing, Add</i>  | 468.46<br>27.09<br>26.25<br>-29.07<br>39.51<br>22.58 | 118.10 |
| 07 92 19 00-0006 CLF 3/8" x 1/2" Joint, Acoustical Sealant .....<br><i>For Custom Match Coloring, Add</i><br><i>For Up To 2 CLF, Add</i><br><i>For &gt;10 CLF, Deduct</i><br><i>For 1 Part Mildew Resistant, Add</i><br><i>For High-Modulus Non-Acid Curing, Add</i>    | 501.24<br>34.96<br>28.70<br>-32.35<br>50.98<br>29.13 | 118.10 |
| 07 92 19 00-0007 CLF 1/2" x 1/2" Joint, Acoustical Sealant .....<br><i>For Custom Match Coloring, Add</i><br><i>For Up To 1.4 CLF, Add</i><br><i>For &gt;7.5 CLF, Deduct</i><br><i>For 1 Part Mildew Resistant, Add</i><br><i>For High-Modulus Non-Acid Curing, Add</i> | 573.53<br>49.26<br>33.81<br>-38.94<br>71.84<br>41.05 | 123.18 |

**07 95 Expansion Control** (07 90)

**07 95 13 Expansion Joint Cover Assemblies** (07 95)

Note: Includes necessary waterproofing mastics/caulking.

**07 95 13 13 Interior Expansion Joint Cover Assemblies** (07 95 13)

**07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies** (07 95 13 13)

**07 95 13 13-0002 With 1" Space** (07 95 13 13-0001)

|   |       |      |
|---|-------|------|
| 07 95 13 13-0003 LF 1" Opening Floor Assembly Type, With Aluminum Expansion Joint Cover.....        | 75.28 | 6.77 |
| 07 95 13 13-0004 LF 1" Opening Floor Assembly Type, With Bronze Expansion Joint Cover .....         | 80.76 | 6.77 |
| 07 95 13 13-0005 LF 1" Opening Floor Assembly Type, With Stainless Steel Expansion Joint Cover..... | 96.08 | 6.77 |

**07 95 13 13-0006 With 2" Space** (07 95 13 13-0001)

|  |        |      |
|--|--------|------|
| 07 95 13 13-0007 LF 2" Opening Floor Assembly Type, Aluminum Expansion Joint Cover.....        | 101.02 | 6.77 |
| 07 95 13 13-0008 LF 2" Opening Floor Assembly Type, Bronze Expansion Joint Cover .....         | 99.74  | 6.77 |
| 07 95 13 13-0009 LF 2" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover..... | 132.23 | 6.77 |

**07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies** (07 95 13 13)

**07 95 13 13-0011 With 1" Space** (07 95 13 13-0010)

**07 Thermal And Moisture Protection****07 90 Joint Protection****07 95 Expansion Control**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 07 95 13 13-0012 LF 1" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....           | 55.42                     | 6.77                    |
| 07 95 13 13-0013 LF 1" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover .....            | 67.66                     | 6.77                    |
| 07 95 13 13-0014 LF 1" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover .....   | 83.89                     | 6.77                    |
| <b>07 95 13 13-0015 With 2" Space</b> <small>(07 95 13 13-0010)</small>                                      |                           |                         |
| 07 95 13 13-0016 LF 2" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....           | 70.86                     | 6.77                    |
| 07 95 13 13-0017 LF 2" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover .....            | 77.14                     | 6.77                    |
| 07 95 13 13-0018 LF 2" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover .....   | 101.96                    | 6.77                    |
| <b>07 95 13 16 Exterior Expansion Joint Cover Assemblies</b> <small>(07 95 13)</small>                       |                           |                         |
| <b>07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies</b> <small>(07 95 13 16)</small> |                           |                         |
| <b>07 95 13 16-0002 Roof To Roof</b> <small>(07 95 13 16-0001)</small>                                       |                           |                         |
| 07 95 13 16-0003 LF 1" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint.....               | 102.84                    | 4.51                    |
| 07 95 13 16-0004 LF 2" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint.....               | 124.51                    | 4.51                    |
| 07 95 13 16-0005 LF 3" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint .....              | 139.43                    | 4.51                    |
| <b>07 95 13 16-0006 Roof To Wall</b> <small>(07 95 13 16-0001)</small>                                       |                           |                         |
| 07 95 13 16-0007 LF 1" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....               | 75.79                     | 4.51                    |
| 07 95 13 16-0008 LF 2" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....               | 102.31                    | 4.51                    |
| <b>07 95 13 16-0009 Flat Wall To Wall</b> <small>(07 95 13 16-0001)</small>                                  |                           |                         |
| 07 95 13 16-0010 LF 1" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint .....              | 55.92                     | 4.51                    |
| 07 95 13 16-0011 LF 2" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint .....              | 71.83                     | 4.51                    |
| 07 95 13 16-0012 LF 3" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint .....              | 91.04                     | 4.51                    |
| <b>07 95 13 16-0013 Corner To Flat Wall</b> <small>(07 95 13 16-0001)</small>                                |                           |                         |
| 07 95 13 16-0014 LF 1" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint .....            | 52.33                     | 4.51                    |
| 07 95 13 16-0015 LF 2" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint .....            | 62.94                     | 4.51                    |
| 07 95 13 16-0016 LF 3" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint .....            | 92.75                     | 4.51                    |

**END OF SECTION 07**



|                               |              |           |
|-------------------------------|--------------|-----------|
| <b>Openings</b>               | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b>       | <b>08 10</b> |           |
| <b>Metal Doors and Frames</b> | <b>08 11</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 08 Openings

### 08 10 Doors and Frames (08)

#### 08 11 Metal Doors and Frames (08 10)

##### 08 11 63 Metal Screen and Storm Doors and Frames (08 11)

##### 08 11 63 13 Steel Screen and Storm Doors and Frames (08 11 63)

##### 08 11 63 13-0001 Steel Screen Door (08 11 63 13)

Note: Includes frame, trim, necessary anchors and hardware (closures, chain and spring, latching, screens, etc.).

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 08 11 63 13-0002 | EA | 2'-8" x 7", Residential, Steel Screen Door With Frame, Trim, Hardware .....                                  | 1,107.33 | 174.68 |
| 08 11 63 13-0003 | EA | 3' x 7' Steel Screen Door, Residential, With Frame, Trim, Hardware .....                                     | 1,120.08 | 181.03 |
| 08 11 63 13-0004 | EA | Steel Combination Type Residential Storm Door, With Mesh And Tempered Glass With Frame, Trim, Hardware ..... | 1,359.34 | 181.03 |

##### 08 11 63 23 Aluminum Screen and Storm Doors and Frames (08 11 63)

##### 08 11 63 23-0001 Aluminum Combination Type With Tempered Glass At Top And Bottom (08 11 63 23)

Note: Includes frame trim, necessary anchors and usual hardware (closures, chain and spring, latching, screens, etc.).

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 08 11 63 23-0002 | EA | Aluminum Combination Type Residential Storm Door, Tempered Glass Top With Frame, Trim, Hardware .....            | 1,094.32 | 101.63 |
|                  |    | <i>For Special Finished, Add</i>   | 100.83   |        |
| 08 11 63 23-0003 | EA | Aluminum Combination Type Residential Storm Door, Tempered Glass Top And Bottom With Frame, Trim, Hardware ..... | 1,150.99 | 101.63 |
| 08 11 63 23-0004 | EA | Aluminum Screen Door .....   | 327.42   | 63.49  |
| 08 11 63 23-0005 | SF | Repair Screen Door .....   | 9.72     |        |

##### 08 11 73 Sliding Metal Fire Doors (08 11)

##### 08 11 73 00-0001 Motor Operated Fire Door With Fusible Link (08 11 73)

Note: 3 hour rating. Excludes electrical hook-up of motor.

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 08 11 73 00-0002 | EA | 3' x 6' 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating .....    | 4,988.55 | 564.03 |
| 08 11 73 00-0003 | EA | 3' 8" x 6' 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating ..... | 5,372.86 | 564.03 |
| 08 11 73 00-0004 | EA | 4' x 8' Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating .....       | 6,021.00 | 564.03 |
| 08 11 73 00-0005 | EA | 5' x 8' Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating .....       | 6,720.48 | 564.03 |

#### 08 12 Metal Frames (08 10)

Note: Includes perimeter caulk, sealant (as required), anchors and silencers.

##### 08 12 13 Hollow Metal Frames (08 12)

##### 08 12 13 13 Standard Hollow Metal Frames (08 12 13)

Note: Shop prime coat.

##### 08 12 13 13-0001 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13)

Note: For non-rated or fire rated frame assemblies

##### 08 12 13 13-0002 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0001)

|                  |    |   |        |        |
|------------------|----|---|--------|--------|
| 08 12 13 13-0003 | EA | 2' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....    | 487.37 | 95.28  |
|                  |    | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 44.52  |        |
|                  |    | <i>For Welded Frames, Add</i>   | 173.02 |        |
|                  |    | <i>For Galvanized Frames, Add</i>   | 35.62  |        |
|                  |    | <i>For Type 304 Stainless Steel Frame, Add</i>  | 543.79 |        |
|                  |    | <i>For Type 316 Stainless Steel Frame, Add</i>  | 632.83 |        |
|                  |    | <i>For Baked Enamel Finish, Add</i>   | 117.63 |        |
|                  |    | <i>For 18 Gauge Frame, Deduct</i>   | -29.68 |        |
|                  |    | <i>For 14 Gauge Frame, Add</i>  | 74.20  |        |
|                  |    | <i>For 12 Gauge Frame, Add</i>  | 112.79 |        |
| 08 12 13 13-0004 | EA | 2'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 562.95 | 104.81 |
|                  |    | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 53.00  |        |
|                  |    | <i>For Welded Frames, Add</i>   | 173.02 |        |
|                  |    | <i>For Galvanized Frames, Add</i>   | 42.40  |        |
|                  |    | <i>For Type 304 Stainless Steel Frame, Add</i>  | 646.49 |        |
|                  |    | <i>For Type 316 Stainless Steel Frame, Add</i>  | 752.49 |        |
|                  |    | <i>For Baked Enamel Finish, Add</i>   | 137.44 |        |
|                  |    | <i>For 18 Gauge Frame, Deduct</i>   | -35.33 |        |
|                  |    | <i>For 14 Gauge Frame, Add</i>  | 88.34  |        |
|                  |    | <i>For 12 Gauge Frame, Add</i>  | 134.27 |        |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 12 13 13-0005 | EA  |     | 2'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 581.32                 | 111.15               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 53.85                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 43.08                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 657.32                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 765.02                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 141.05                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -35.90                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 89.75                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 136.42                 |                      |
| 08 12 13 13-0006 | EA  |     | 2'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 600.37                 | 120.68               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 53.85                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 43.08                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 658.27                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 765.97                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 143.91                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -35.90                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 89.75                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 136.42                 |                      |
| 08 12 13 13-0007 | EA  |     | 2'-10" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 612.37                 | 123.86               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 54.70                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 43.76                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 668.76                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 778.15                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 146.55                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -36.47                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 91.16                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 138.57                 |                      |
| 08 12 13 13-0008 | EA  |     | 3' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 624.37                 | 127.04               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 55.55                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 44.44                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 679.24                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 790.33                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 149.20                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -37.03                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 92.58                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 140.71                 |                      |
| 08 12 13 13-0009 | EA  |     | 3'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 662.52                 | 133.39               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 59.36                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 47.49                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 725.67                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 844.39                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 158.74                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -39.57                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 98.94                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 150.38                 |                      |
| 08 12 13 13-0010 | EA  |     | 3'-6" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 675.21                 | 139.74               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 59.36                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 47.49                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 726.31                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 845.03                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 160.64                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -39.57                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 98.94                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 150.38                 |                      |
| 08 12 13 13-0011 | EA  |     | 4' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 702.06                 | 146.10               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 61.48                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 49.19                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 752.39                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 875.36                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 166.79                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -40.99                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 102.47                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 155.75                 |                      |
| 08 12 13 13-0012 | EA  |     | 5' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 728.90                 | 152.44               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 63.60                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 50.88                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 778.46                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 905.67                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 172.94                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -42.40                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 106.00                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 161.12                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 12 13 13-0013 EA 5'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                | 741.59                    | 158.79                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 63.60                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 50.88                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 779.10                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 906.30                    |                         |
| For Baked Enamel Finish, Add  | 174.84                    |                         |
| For 18 Gauge Frame, Deduct  | -42.40                    |                         |
| For 14 Gauge Frame, Add   | 106.00                    |                         |
| For 12 Gauge Frame, Add   | 161.12                    |                         |
| 08 12 13 13-0014 EA 5'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                | 755.02                    | 161.97                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 64.66                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 51.73                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 792.14                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 921.47                    |                         |
| For Baked Enamel Finish, Add  | 177.92                    |                         |
| For 18 Gauge Frame, Deduct  | -43.11                    |                         |
| For 14 Gauge Frame, Add   | 107.77                    |                         |
| For 12 Gauge Frame, Add   | 163.81                    |                         |
| 08 12 13 13-0015 EA 6' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                  | 768.43                    | 165.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 65.72                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 52.58                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 805.17                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 936.61                    |                         |
| For Baked Enamel Finish, Add  | 180.99                    |                         |
| For 18 Gauge Frame, Deduct  | -43.81                    |                         |
| For 14 Gauge Frame, Add   | 109.54                    |                         |
| For 12 Gauge Frame, Add   | 166.49                    |                         |
| 08 12 13 13-0016 EA 7' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                  | 803.05                    | 168.32                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 69.96                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 55.97                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 856.37                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 996.29                    |                         |
| For Baked Enamel Finish, Add  | 190.42                    |                         |
| For 18 Gauge Frame, Deduct  | -46.64                    |                         |
| For 14 Gauge Frame, Add   | 116.60                    |                         |
| For 12 Gauge Frame, Add   | 177.24                    |                         |
| 08 12 13 13-0017 EA 8' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                  | 837.68                    | 171.50                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 74.20                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 59.36                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 907.57                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,055.98                  |                         |
| For Baked Enamel Finish, Add  | 199.85                    |                         |
| For 18 Gauge Frame, Deduct  | -49.47                    |                         |
| For 14 Gauge Frame, Add   | 123.67                    |                         |
| For 12 Gauge Frame, Add   | 187.98                    |                         |
| <b>08 12 13 13-0018 &gt;7'-2" Through 9'-0" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0001)</b> |                           |                         |
| 08 12 13 13-0019 EA 2' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                     | 520.35                    | 95.28                   |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 49.47                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 39.57                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 603.15                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 702.09                    |                         |
| For Baked Enamel Finish, Add  | 127.52                    |                         |
| For 18 Gauge Frame, Deduct  | -32.98                    |                         |
| For 14 Gauge Frame, Add   | 82.45                     |                         |
| For 12 Gauge Frame, Add   | 125.32                    |                         |
| 08 12 13 13-0020 EA 2'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                 | 602.21                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 58.89                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 47.11                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 717.16                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 834.94                    |                         |
| For Baked Enamel Finish, Add  | 149.22                    |                         |
| For 18 Gauge Frame, Deduct  | -39.26                    |                         |
| For 14 Gauge Frame, Add   | 98.15                     |                         |
| For 12 Gauge Frame, Add   | 149.19                    |                         |
| 08 12 13 13-0021 EA 2'-6" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                 | 621.20                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 59.83                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 47.87                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 729.10                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 848.76                    |                         |
| For Baked Enamel Finish, Add  | 153.01                    |                         |
| For 18 Gauge Frame, Deduct  | -39.89                    |                         |
| For 14 Gauge Frame, Add   | 99.72                     |                         |
| For 12 Gauge Frame, Add   | 151.57                    |                         |



**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|----------|---------|-----|--|---------------------------|-------------------------|
| 08 12 13 | 13-0022 | EA  | 2'-8" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 640.25                    | 120.68                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 59.83                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 47.87                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 730.05                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 849.72                    |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 155.87                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -39.89                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 99.72                     |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 151.57                    |                         |
| 08 12 13 | 13-0023 | EA  | 2'-10" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 652.89                    | 123.86                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 60.78                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 48.62                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 741.69                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 863.24                    |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 158.71                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -40.52                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 101.29                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 153.96                    |                         |
| 08 12 13 | 13-0024 | EA  | 3' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....      | 665.52                    | 127.04                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 61.72                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 49.37                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 753.31                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 876.75                    |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 161.55                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -41.15                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 102.86                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 156.35                    |                         |
| 08 12 13 | 13-0025 | EA  | 3'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 706.49                    | 133.39                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 65.96                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 52.77                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 804.82                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 936.73                    |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 171.93                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -43.97                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 109.93                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 167.09                    |                         |
| 08 12 13 | 13-0026 | EA  | 3'-6" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 719.18                    | 139.74                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 65.96                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 52.77                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 805.45                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 937.36                    |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 173.83                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -43.97                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 109.93                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 167.09                    |                         |
| 08 12 13 | 13-0027 | EA  | 4' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....      | 747.60                    | 146.10                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 68.31                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 54.65                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 834.37                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 970.99                    |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 180.45                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -45.54                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 113.86                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 173.06                    |                         |
| 08 12 13 | 13-0028 | EA  | 5' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....      | 776.01                    | 152.44                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 70.67                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 56.53                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 863.26                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,004.60                  |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 187.07                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -47.11                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 117.78                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 179.03                    |                         |
| 08 12 13 | 13-0029 | EA  | 5'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 788.70                    | 158.79                  |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 70.67                     |                         |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                    |                         |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 56.53                     |                         |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 863.90                    |                         |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,005.23                  |                         |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 188.97                    |                         |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -47.11                    |                         |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 117.78                    |                         |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 179.03                    |                         |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 12 13 13-0030 EA 5'-8" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....             | 802.92                    | 161.97                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 71.85                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 57.48                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 878.36                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,022.06                  |                         |
| For Baked Enamel Finish, Add  | 192.29                    |                         |
| For 18 Gauge Frame, Deduct  | -47.90                    |                         |
| For 14 Gauge Frame, Add   | 119.75                    |                         |
| For 12 Gauge Frame, Add   | 182.01                    |                         |
| 08 12 13 13-0031 EA 6' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                 | 817.12                    | 165.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 73.02                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 58.42                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 892.81                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,038.86                  |                         |
| For Baked Enamel Finish, Add  | 195.59                    |                         |
| For 18 Gauge Frame, Deduct  | -48.68                    |                         |
| For 14 Gauge Frame, Add   | 121.71                    |                         |
| For 12 Gauge Frame, Add   | 185.00                    |                         |
| 08 12 13 13-0032 EA 7' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                 | 854.88                    | 168.32                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 77.74                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 62.19                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 949.66                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,105.14                  |                         |
| For Baked Enamel Finish, Add  | 205.97                    |                         |
| For 18 Gauge Frame, Deduct  | -51.82                    |                         |
| For 14 Gauge Frame, Add   | 129.56                    |                         |
| For 12 Gauge Frame, Add   | 196.93                    |                         |
| 08 12 13 13-0033 EA 8' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                 | 892.64                    | 171.50                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 82.45                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 65.96                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,006.50                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,171.39                  |                         |
| For Baked Enamel Finish, Add  | 216.34                    |                         |
| For 18 Gauge Frame, Deduct  | -54.96                    |                         |
| For 14 Gauge Frame, Add   | 137.41                    |                         |
| For 12 Gauge Frame, Add   | 208.86                    |                         |
| <b>08 12 13 13-0034 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13)</b>                                |                           |                         |
| Note: For non-rated or fire rated frame assemblies  |                           |                         |
| <b>08 12 13 13-0035 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0034)</b> |                           |                         |
| 08 12 13 13-0036 EA 2' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....              | 520.35                    | 95.28                   |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 49.47                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 39.57                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 603.15                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 702.09                    |                         |
| For Baked Enamel Finish, Add  | 127.52                    |                         |
| For 18 Gauge Frame, Deduct  | -32.98                    |                         |
| For 14 Gauge Frame, Add   | 82.45                     |                         |
| For 12 Gauge Frame, Add   | 125.32                    |                         |
| 08 12 13 13-0037 EA 2'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....            | 602.21                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 58.89                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 47.11                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 717.16                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 834.94                    |                         |
| For Baked Enamel Finish, Add  | 149.22                    |                         |
| For 18 Gauge Frame, Deduct  | -39.26                    |                         |
| For 14 Gauge Frame, Add   | 98.15                     |                         |
| For 12 Gauge Frame, Add   | 149.19                    |                         |
| 08 12 13 13-0038 EA 2'-6" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....            | 621.20                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 59.83                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 47.87                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 729.10                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 848.76                    |                         |
| For Baked Enamel Finish, Add  | 153.01                    |                         |
| For 18 Gauge Frame, Deduct  | -39.89                    |                         |
| For 14 Gauge Frame, Add   | 99.72                     |                         |
| For 12 Gauge Frame, Add   | 151.57                    |                         |
| 08 12 13 13-0039 EA 2'-8" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....            | 640.25                    | 120.68                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 59.83                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 47.87                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 730.05                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 849.72                    |                         |
| For Baked Enamel Finish, Add  | 155.87                    |                         |
| For 18 Gauge Frame, Deduct  | -39.89                    |                         |
| For 14 Gauge Frame, Add   | 99.72                     |                         |
| For 12 Gauge Frame, Add   | 151.57                    |                         |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 12 13 13-0040 | EA  |     | 2'-10" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 652.89                 | 123.86               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 60.78                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 48.62                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 741.69                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 863.24                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 158.71                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -40.52                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 101.29                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 153.96                 |                      |
| 08 12 13 13-0041 | EA  |     | 3' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....     | 665.52                 | 127.04               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 61.72                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 49.37                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 753.31                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 876.75                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 161.55                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -41.15                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 102.86                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 156.35                 |                      |
| 08 12 13 13-0042 | EA  |     | 3'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 706.49                 | 133.39               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 65.96                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 52.77                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 804.82                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 936.73                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 171.93                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -43.97                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 109.93                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 167.09                 |                      |
| 08 12 13 13-0043 | EA  |     | 3'-6" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 719.18                 | 139.74               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 65.96                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 52.77                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 805.45                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 937.36                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 173.83                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -43.97                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 109.93                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 167.09                 |                      |
| 08 12 13 13-0044 | EA  |     | 4' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....     | 747.60                 | 146.10               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 68.31                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 54.65                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 834.37                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 970.99                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 180.45                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -45.54                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 113.86                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 173.06                 |                      |
| 08 12 13 13-0045 | EA  |     | 5' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....     | 776.01                 | 152.44               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 70.67                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 56.53                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 863.26                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,004.60               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 187.07                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -47.11                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 117.78                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 179.03                 |                      |
| 08 12 13 13-0046 | EA  |     | 5'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 788.70                 | 158.79               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 70.67                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 56.53                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 863.90                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,005.23               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 188.97                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -47.11                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 117.78                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 179.03                 |                      |
| 08 12 13 13-0047 | EA  |     | 5'-8" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 802.91                 | 161.97               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 71.85                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 57.48                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 878.34                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,022.03               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 192.28                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -47.90                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 119.74                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 182.01                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 12 13 13-0048 EA 6' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                     | 817.12                    | 165.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 73.02                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 58.42                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 892.81                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,038.86                  |                         |
| For Baked Enamel Finish, Add   | 195.59                    |                         |
| For 18 Gauge Frame, Deduct   | -48.68                    |                         |
| For 14 Gauge Frame, Add  | 121.71                    |                         |
| For 12 Gauge Frame, Add  | 185.00                    |                         |
| 08 12 13 13-0049 EA 7' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                     | 854.88                    | 168.32                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 77.74                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 62.19                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 949.66                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,105.14                  |                         |
| For Baked Enamel Finish, Add   | 205.97                    |                         |
| For 18 Gauge Frame, Deduct   | -51.82                    |                         |
| For 14 Gauge Frame, Add  | 129.56                    |                         |
| For 12 Gauge Frame, Add  | 196.93                    |                         |
| 08 12 13 13-0050 EA 8' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                     | 892.64                    | 171.50                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 82.45                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 65.96                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,006.50                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,171.39                  |                         |
| For Baked Enamel Finish, Add   | 216.34                    |                         |
| For 18 Gauge Frame, Deduct   | -54.96                    |                         |
| For 14 Gauge Frame, Add  | 137.41                    |                         |
| For 12 Gauge Frame, Add  | 208.86                    |                         |
| <b>08 12 13 13-0051 &gt;7'-2" Through 9'-0" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow<br/>Metal Door Frames</b> <small>(08 12 13 13-0034)</small> |                           |                         |
| 08 12 13 13-0052 EA 2' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 556.99                    | 95.28                   |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 54.96                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 43.97                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 669.10                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 779.03                    |                         |
| For Baked Enamel Finish, Add   | 138.51                    |                         |
| For 18 Gauge Frame, Deduct   | -36.64                    |                         |
| For 14 Gauge Frame, Add  | 91.61                     |                         |
| For 12 Gauge Frame, Add  | 139.24                    |                         |
| 08 12 13 13-0053 EA 2'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 645.83                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 65.43                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 52.35                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 795.68                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 926.54                    |                         |
| For Baked Enamel Finish, Add   | 162.31                    |                         |
| For 18 Gauge Frame, Deduct   | -43.62                    |                         |
| For 14 Gauge Frame, Add  | 109.06                    |                         |
| For 12 Gauge Frame, Add  | 165.76                    |                         |
| 08 12 13 13-0054 EA 2'-6" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 665.52                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 66.48                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 53.18                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 808.88                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 941.84                    |                         |
| For Baked Enamel Finish, Add   | 166.31                    |                         |
| For 18 Gauge Frame, Deduct   | -44.32                    |                         |
| For 14 Gauge Frame, Add  | 110.80                    |                         |
| For 12 Gauge Frame, Add  | 168.42                    |                         |
| 08 12 13 13-0055 EA 2'-8" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 684.57                    | 120.68                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 66.48                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 53.18                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 809.83                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 942.79                    |                         |
| For Baked Enamel Finish, Add   | 169.17                    |                         |
| For 18 Gauge Frame, Deduct   | -44.32                    |                         |
| For 14 Gauge Frame, Add  | 110.80                    |                         |
| For 12 Gauge Frame, Add  | 168.42                    |                         |
| 08 12 13 13-0056 EA 2'-10" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                   | 697.90                    | 123.86                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 67.53                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 54.02                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 822.71                    |                         |
| For Type 316 Stainless Steel Frame, Add  | 957.76                    |                         |
| For Baked Enamel Finish, Add   | 172.21                    |                         |
| For 18 Gauge Frame, Deduct   | -45.02                    |                         |
| For 14 Gauge Frame, Add  | 112.55                    |                         |
| For 12 Gauge Frame, Add  | 171.07                    |                         |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 12 13 13-0057 | EA  |     | 3' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 711.23                 | 127.04               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 68.57                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 54.86                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 835.59                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 972.74                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 175.26                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -45.72                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 114.29                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 173.72                 |                      |
| 08 12 13 13-0058 | EA  |     | 3'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 755.35                 | 133.39               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 73.29                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 58.63                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 892.77                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,039.34               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 186.59                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -48.86                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 122.14                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 185.66                 |                      |
| 08 12 13 13-0059 | EA  |     | 3'-6" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 768.04                 | 139.74               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 73.29                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 58.63                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 893.40                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,039.97               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 188.49                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -48.86                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 122.14                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 185.66                 |                      |
| 08 12 13 13-0060 | EA  |     | 4' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 798.20                 | 146.10               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 75.90                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 60.72                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 925.45                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,077.25               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 195.63                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -50.60                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 126.51                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 192.29                 |                      |
| 08 12 13 13-0061 | EA  |     | 5' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 828.36                 | 152.44               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 78.52                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 62.82                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 957.49                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,114.53               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 202.77                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -52.35                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 130.87                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 198.92                 |                      |
| 08 12 13 13-0062 | EA  |     | 5'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 841.05                 | 158.79               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 78.52                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 62.82                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 958.13                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,115.17               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 204.68                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -52.35                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 130.87                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 198.92                 |                      |
| 08 12 13 13-0063 | EA  |     | 5'-8" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 856.13                 | 161.97               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 79.83                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 63.86                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 974.14                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,133.80               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 208.25                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -53.22                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 133.05                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 202.23                 |                      |
| 08 12 13 13-0064 | EA  |     | 6' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 871.21                 | 165.15               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 81.14                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 64.91                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 990.17                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,152.45               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 211.82                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -54.09                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 135.23                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 205.55                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 12 13 13-0065 EA 7' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                 | 912.46                    | 168.32                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 86.37                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 69.10                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,053.31                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,226.05                  |                         |
| For Baked Enamel Finish, Add  | 223.24                    |                         |
| For 18 Gauge Frame, Deduct  | -57.58                    |                         |
| For 14 Gauge Frame, Add   | 143.96                    |                         |
| For 12 Gauge Frame, Add   | 218.81                    |                         |
| 08 12 13 13-0066 EA 8' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                 | 953.72                    | 171.50                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 91.61                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 73.29                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,116.45                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,299.66                  |                         |
| For Baked Enamel Finish, Add  | 234.67                    |                         |
| For 18 Gauge Frame, Deduct  | -61.07                    |                         |
| For 14 Gauge Frame, Add   | 152.68                    |                         |
| For 12 Gauge Frame, Add   | 232.07                    |                         |
| <b>08 12 13 13-0067 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13)</b>                                |                           |                         |
| Note: For non-rated or fire rated frame assemblies  |                           |                         |
| <b>08 12 13 13-0068 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0067)</b> |                           |                         |
| 08 12 13 13-0069 EA 2' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....              | 712.65                    | 95.28                   |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 78.31                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 62.65                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 949.29                    |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,105.92                  |                         |
| For Baked Enamel Finish, Add  | 185.21                    |                         |
| For 18 Gauge Frame, Deduct  | -52.21                    |                         |
| For 14 Gauge Frame, Add   | 130.52                    |                         |
| For 12 Gauge Frame, Add   | 198.39                    |                         |
| 08 12 13 13-0070 EA 2'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....            | 831.14                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 93.23                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 74.58                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,129.23                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,315.69                  |                         |
| For Baked Enamel Finish, Add  | 217.90                    |                         |
| For 18 Gauge Frame, Deduct  | -62.15                    |                         |
| For 14 Gauge Frame, Add   | 155.38                    |                         |
| For 12 Gauge Frame, Add   | 236.18                    |                         |
| 08 12 13 13-0071 EA 2'-6" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....            | 853.80                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 94.72                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 75.78                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,147.78                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,337.22                  |                         |
| For Baked Enamel Finish, Add  | 222.79                    |                         |
| For 18 Gauge Frame, Deduct  | -63.15                    |                         |
| For 14 Gauge Frame, Add   | 157.87                    |                         |
| For 12 Gauge Frame, Add   | 239.96                    |                         |
| 08 12 13 13-0072 EA 2'-8" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....            | 872.85                    | 120.68                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 94.72                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 75.78                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,148.73                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,338.18                  |                         |
| For Baked Enamel Finish, Add  | 225.65                    |                         |
| For 18 Gauge Frame, Deduct  | -63.15                    |                         |
| For 14 Gauge Frame, Add   | 157.87                    |                         |
| For 12 Gauge Frame, Add   | 239.96                    |                         |
| 08 12 13 13-0073 EA 2'-10" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....           | 889.14                    | 123.86                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 96.21                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 76.97                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,166.94                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,359.37                  |                         |
| For Baked Enamel Finish, Add  | 229.58                    |                         |
| For 18 Gauge Frame, Deduct  | -64.14                    |                         |
| For 14 Gauge Frame, Add   | 160.36                    |                         |
| For 12 Gauge Frame, Add   | 243.74                    |                         |
| 08 12 13 13-0074 EA 3' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....              | 905.44                    | 127.04                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 97.71                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 78.16                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,185.17                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,380.58                  |                         |
| For Baked Enamel Finish, Add  | 233.52                    |                         |
| For 18 Gauge Frame, Deduct  | -65.14                    |                         |
| For 14 Gauge Frame, Add   | 162.84                    |                         |
| For 12 Gauge Frame, Add   | 247.52                    |                         |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 08 12 13 | 13-0075 | EA  | 3'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 962.90                 | 133.39               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 104.42                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 83.53                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,266.36               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,475.19               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 248.85                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -69.61                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 174.03                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 264.53                 |                      |
| 08 12 13 | 13-0076 | EA  | 3'-6" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 975.59                 | 139.74               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 104.42                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 83.53                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,266.99               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,475.83               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 250.76                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -69.61                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 174.03                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 264.53                 |                      |
| 08 12 13 | 13-0077 | EA  | 4' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,013.16               | 146.10               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 108.15                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 86.52                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,312.37               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,528.67               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 260.12                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -72.10                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 180.25                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 273.97                 |                      |
| 08 12 13 | 13-0078 | EA  | 5' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,050.73               | 152.44               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 111.88                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 89.50                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,357.76               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,581.51               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 269.49                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -74.58                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 186.46                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 283.42                 |                      |
| 08 12 13 | 13-0079 | EA  | 5'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,063.42               | 158.79               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 111.88                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 89.50                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,358.39               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,582.14               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 271.39                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -74.58                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 186.46                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 283.42                 |                      |
| 08 12 13 | 13-0080 | EA  | 5'-8" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,082.21               | 161.97               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 113.74                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 90.99                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,381.08               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,608.56               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 276.07                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -75.83                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 189.57                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 288.14                 |                      |
| 08 12 13 | 13-0081 | EA  | 6' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,100.99               | 165.15               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 115.61                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 92.48                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,403.77               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,634.98               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 280.75                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -77.07                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 192.68                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 292.87                 |                      |
| 08 12 13 | 13-0082 | EA  | 7' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,157.06               | 168.32               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 123.06                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 98.45                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,493.59               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,739.71               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 296.62                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -82.04                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 205.11                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 311.76                 |                      |



|                         |              |
|-------------------------|--------------|
| <b>Openings</b>         | <b>08</b>    |
| <b>Doors and Frames</b> | <b>08 10</b> |
| <b>Metal Frames</b>     | <b>08 12</b> |

08

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 12 13 13-0083 EA 8' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                     | 1,213.15                  | 171.50                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 130.52                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 104.42                    |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,583.42                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,844.47                  |                         |
| For Baked Enamel Finish, Add   | 312.50                    |                         |
| For 18 Gauge Frame, Deduct   | -87.02                    |                         |
| For 14 Gauge Frame, Add  | 217.54                    |                         |
| For 12 Gauge Frame, Add  | 330.66                    |                         |
| <b>08 12 13 13-0084 &gt;7'-2" Through 9'-0" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow<br/>Metal Door Frames</b> <small>(08 12 13 13-0067)</small> |                           |                         |
| 08 12 13 13-0085 EA 2' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                       | 770.66                    | 95.28                   |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 87.02                     |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 69.61                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,053.71                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,227.74                  |                         |
| For Baked Enamel Finish, Add   | 202.61                    |                         |
| For 18 Gauge Frame, Deduct   | -58.01                    |                         |
| For 14 Gauge Frame, Add  | 145.03                    |                         |
| For 12 Gauge Frame, Add  | 220.44                    |                         |
| 08 12 13 13-0086 EA 2'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 900.20                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 103.59                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 82.87                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,253.54                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,460.72                  |                         |
| For Baked Enamel Finish, Add   | 238.62                    |                         |
| For 18 Gauge Frame, Deduct   | -69.06                    |                         |
| For 14 Gauge Frame, Add  | 172.65                    |                         |
| For 12 Gauge Frame, Add  | 262.42                    |                         |
| 08 12 13 13-0087 EA 2'-6" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 923.96                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 105.25                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 84.20                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,274.07                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,484.56                  |                         |
| For Baked Enamel Finish, Add   | 243.84                    |                         |
| For 18 Gauge Frame, Deduct   | -70.16                    |                         |
| For 14 Gauge Frame, Add  | 175.41                    |                         |
| For 12 Gauge Frame, Add  | 266.62                    |                         |
| 08 12 13 13-0088 EA 2'-8" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 943.01                    | 120.68                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 105.25                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 84.20                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,275.02                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,485.51                  |                         |
| For Baked Enamel Finish, Add   | 246.70                    |                         |
| For 18 Gauge Frame, Deduct   | -70.16                    |                         |
| For 14 Gauge Frame, Add  | 175.41                    |                         |
| For 12 Gauge Frame, Add  | 266.62                    |                         |
| 08 12 13 13-0089 EA 2'-10" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                   | 960.41                    | 123.86                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 106.90                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 85.52                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,295.23                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,509.04                  |                         |
| For Baked Enamel Finish, Add   | 250.97                    |                         |
| For 18 Gauge Frame, Deduct   | -71.27                    |                         |
| For 14 Gauge Frame, Add  | 178.17                    |                         |
| For 12 Gauge Frame, Add  | 270.82                    |                         |
| 08 12 13 13-0090 EA 3' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                       | 977.81                    | 127.04                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 108.56                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 86.85                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,315.44                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,532.56                  |                         |
| For Baked Enamel Finish, Add   | 255.23                    |                         |
| For 18 Gauge Frame, Deduct   | -72.37                    |                         |
| For 14 Gauge Frame, Add  | 180.94                    |                         |
| For 12 Gauge Frame, Add  | 275.02                    |                         |
| 08 12 13 13-0091 EA 3'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                                    | 1,040.24                  | 133.99                  |
| For Auxiliary Frame Reinforcement For Hinges, Add  | 116.02                    |                         |
| For Welded Frames, Add   | 173.02                    |                         |
| For Galvanized Frames, Add   | 92.82                     |                         |
| For Type 304 Stainless Steel Frame, Add  | 1,405.57                  |                         |
| For Type 316 Stainless Steel Frame, Add  | 1,637.61                  |                         |
| For Baked Enamel Finish, Add   | 272.06                    |                         |
| For 18 Gauge Frame, Deduct   | -77.35                    |                         |
| For 14 Gauge Frame, Add  | 193.37                    |                         |
| For 12 Gauge Frame, Add  | 293.91                    |                         |



**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 12 13 13-0092 | EA  |     | 3'-6" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 1,052.93               | 139.74               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 116.02                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 92.82                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,406.20               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,638.24               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 273.96                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -77.35                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 193.37                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 293.91                 |                      |
| 08 12 13 13-0093 | EA  |     | 4' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 1,093.27               | 146.10               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 120.16                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 96.13                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,456.57               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,696.90               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 284.15                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -80.11                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 200.27                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 304.41                 |                      |
| 08 12 13 13-0094 | EA  |     | 5' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 1,133.60               | 152.44               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 124.31                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 99.45                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,506.92               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,755.54               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 294.35                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -82.87                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 207.18                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 314.91                 |                      |
| 08 12 13 13-0095 | EA  |     | 5'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 1,146.29               | 158.79               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 124.31                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 99.45                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,507.56               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,756.17               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 296.25                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -82.87                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 207.18                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 314.91                 |                      |
| 08 12 13 13-0096 | EA  |     | 5'-8" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 1,166.46               | 161.97               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 126.38                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 101.10                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,532.73               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,785.49               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 301.35                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -84.25                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 210.63                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 320.16                 |                      |
| 08 12 13 13-0097 | EA  |     | 6' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 1,186.62               | 165.15               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 128.45                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 102.76                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,557.91               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,814.81               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 306.44                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -85.63                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 214.08                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 325.41                 |                      |
| 08 12 13 13-0098 | EA  |     | 7' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 1,248.21               | 168.32               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 136.74                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 109.39                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,657.66               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,931.13               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 323.97                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -91.16                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 227.89                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 346.40                 |                      |
| 08 12 13 13-0099 | EA  |     | 8' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....     | 1,309.83               | 171.50               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 145.02                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>   | 116.02                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,757.44               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 2,047.49               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 341.50                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>   | -96.68                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>  | 241.71                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>  | 367.40                 |                      |

08 12 13 13-0100 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door  
Frames (08 12 13 13)

Note: For non-rated or fire rated frame assemblies



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>08 12 13 13-0101 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0100)</small></b> |                           |                         |
| 08 12 13 13-0102 EA 2' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                             | 751.80                    | 95.28                   |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 84.19                     |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 67.35                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,019.76                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,188.13                  |                         |
| For Baked Enamel Finish, Add  | 196.96                    |                         |
| For 18 Gauge Frame, Deduct  | -56.12                    |                         |
| For 14 Gauge Frame, Add   | 140.31                    |                         |
| For 12 Gauge Frame, Add   | 213.27                    |                         |
| 08 12 13 13-0103 EA 2'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                          | 877.76                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 100.22                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 80.18                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,213.15                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,413.60                  |                         |
| For Baked Enamel Finish, Add  | 231.89                    |                         |
| For 18 Gauge Frame, Deduct  | -66.82                    |                         |
| For 14 Gauge Frame, Add   | 167.04                    |                         |
| For 12 Gauge Frame, Add   | 253.90                    |                         |
| 08 12 13 13-0104 EA 2'-6" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                          | 901.16                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 101.83                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 81.46                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,233.03                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,436.68                  |                         |
| For Baked Enamel Finish, Add  | 237.00                    |                         |
| For 18 Gauge Frame, Deduct  | -67.88                    |                         |
| For 14 Gauge Frame, Add   | 169.71                    |                         |
| For 12 Gauge Frame, Add   | 257.96                    |                         |
| 08 12 13 13-0105 EA 2'-8" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                          | 920.21                    | 120.68                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 101.83                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 81.46                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,233.98                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,437.63                  |                         |
| For Baked Enamel Finish, Add  | 239.86                    |                         |
| For 18 Gauge Frame, Deduct  | -67.88                    |                         |
| For 14 Gauge Frame, Add   | 169.71                    |                         |
| For 12 Gauge Frame, Add   | 257.96                    |                         |
| 08 12 13 13-0106 EA 2'-10" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                         | 937.25                    | 123.86                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 103.43                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 82.74                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,253.54                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,460.40                  |                         |
| For Baked Enamel Finish, Add  | 244.02                    |                         |
| For 18 Gauge Frame, Deduct  | -68.95                    |                         |
| For 14 Gauge Frame, Add   | 172.38                    |                         |
| For 12 Gauge Frame, Add   | 262.02                    |                         |
| 08 12 13 13-0107 EA 3' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                             | 954.29                    | 127.04                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 105.03                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 84.03                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,273.10                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,483.17                  |                         |
| For Baked Enamel Finish, Add  | 248.18                    |                         |
| For 18 Gauge Frame, Deduct  | -70.02                    |                         |
| For 14 Gauge Frame, Add   | 175.06                    |                         |
| For 12 Gauge Frame, Add   | 266.08                    |                         |
| 08 12 13 13-0108 EA 3'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                          | 1,015.11                  | 133.39                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 112.25                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 89.80                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,360.33                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,584.83                  |                         |
| For Baked Enamel Finish, Add  | 264.52                    |                         |
| For 18 Gauge Frame, Deduct  | -74.83                    |                         |
| For 14 Gauge Frame, Add   | 187.08                    |                         |
| For 12 Gauge Frame, Add   | 284.37                    |                         |
| 08 12 13 13-0109 EA 3'-6" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                          | 1,027.80                  | 139.74                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 112.25                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 89.80                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,360.97                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,585.47                  |                         |
| For Baked Enamel Finish, Add  | 266.42                    |                         |
| For 18 Gauge Frame, Deduct  | -74.83                    |                         |
| For 14 Gauge Frame, Add   | 187.08                    |                         |
| For 12 Gauge Frame, Add   | 284.37                    |                         |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 12 13 13-0110 | EA  |     | 4' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                           | 1,067.23               | 146.10               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 116.26                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 93.01                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,409.70               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,642.21               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 276.34                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -77.51                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 193.76                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 294.52                 |                      |
| 08 12 13 13-0111 | EA  |     | 5' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                           | 1,106.67               | 152.44               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 120.27                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 96.21                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,458.45               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,698.98               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 286.27                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -80.18                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 200.45                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 304.68                 |                      |
| 08 12 13 13-0112 | EA  |     | 5'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                        | 1,119.36               | 158.79               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 120.27                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 96.21                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,459.08               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,699.62               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 288.17                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -80.18                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 200.45                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 304.68                 |                      |
| 08 12 13 13-0113 | EA  |     | 5'-8" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                        | 1,139.08               | 161.97               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 122.27                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 97.82                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,483.45               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,727.99               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 293.13                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -81.51                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 203.79                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 309.75                 |                      |
| 08 12 13 13-0114 | EA  |     | 6' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                           | 1,158.79               | 165.15               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 124.28                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 99.42                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,507.81               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,756.36               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 298.09                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -82.85                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 207.13                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 314.83                 |                      |
| 08 12 13 13-0115 | EA  |     | 7' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                           | 1,218.59               | 168.32               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 132.29                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 105.83                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,604.34               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,868.93               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 315.08                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -88.20                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 220.49                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 335.14                 |                      |
| 08 12 13 13-0116 | EA  |     | 8' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                           | 1,278.41               | 171.50               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 140.31                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 112.25                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,700.89               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,981.51               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 332.07                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -93.54                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 233.85                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 355.46                 |                      |
| 08 12 13 13-0117 |     |     | >7'-2" Through 9'-0" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0100)</small> |                        |                      |
| 08 12 13 13-0118 | EA  |     | 2' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....                             | 814.16                 | 95.28                |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 93.54                  |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 74.83                  |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,132.01               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,319.09               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 215.66                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -62.36                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 155.90                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 236.97                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 12 13 13-0119 EA 2'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 952.00                    | 104.81                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 111.36                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 89.09                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,346.78                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,569.50                  |                         |
| For Baked Enamel Finish, Add  | 254.16                    |                         |
| For 18 Gauge Frame, Deduct  | -74.24                    |                         |
| For 14 Gauge Frame, Add   | 185.60                    |                         |
| For 12 Gauge Frame, Add   | 282.11                    |                         |
| 08 12 13 13-0120 EA 2'-6" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 976.58                    | 111.15                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 113.14                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 90.51                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,368.78                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,595.06                  |                         |
| For Baked Enamel Finish, Add  | 259.63                    |                         |
| For 18 Gauge Frame, Deduct  | -75.43                    |                         |
| For 14 Gauge Frame, Add   | 188.57                    |                         |
| For 12 Gauge Frame, Add   | 286.62                    |                         |
| 08 12 13 13-0121 EA 2'-8" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 995.63                    | 120.68                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 113.14                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 90.51                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,369.74                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,596.01                  |                         |
| For Baked Enamel Finish, Add  | 262.48                    |                         |
| For 18 Gauge Frame, Deduct  | -75.43                    |                         |
| For 14 Gauge Frame, Add   | 188.57                    |                         |
| For 12 Gauge Frame, Add   | 286.62                    |                         |
| 08 12 13 13-0122 EA 2'-10" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame ..... | 1,013.86                  | 123.86                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 114.92                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 91.94                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,391.44                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,621.28                  |                         |
| For Baked Enamel Finish, Add  | 267.00                    |                         |
| For 18 Gauge Frame, Deduct  | -76.61                    |                         |
| For 14 Gauge Frame, Add   | 191.54                    |                         |
| For 12 Gauge Frame, Add   | 291.13                    |                         |
| 08 12 13 13-0123 EA 3' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....      | 1,032.09                  | 127.04                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 116.70                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 93.36                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,413.14                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,646.55                  |                         |
| For Baked Enamel Finish, Add  | 271.52                    |                         |
| For 18 Gauge Frame, Deduct  | -77.80                    |                         |
| For 14 Gauge Frame, Add   | 194.51                    |                         |
| For 12 Gauge Frame, Add   | 295.65                    |                         |
| 08 12 13 13-0124 EA 3'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 1,098.25                  | 133.99                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 124.72                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 99.78                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,509.99                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,759.43                  |                         |
| For Baked Enamel Finish, Add  | 289.46                    |                         |
| For 18 Gauge Frame, Deduct  | -83.15                    |                         |
| For 14 Gauge Frame, Add   | 207.87                    |                         |
| For 12 Gauge Frame, Add   | 315.96                    |                         |
| 08 12 13 13-0125 EA 3'-6" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....  | 1,110.94                  | 139.74                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 124.72                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 99.78                     |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,510.62                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,760.06                  |                         |
| For Baked Enamel Finish, Add  | 291.36                    |                         |
| For 18 Gauge Frame, Deduct  | -83.15                    |                         |
| For 14 Gauge Frame, Add   | 207.87                    |                         |
| For 12 Gauge Frame, Add   | 315.96                    |                         |
| 08 12 13 13-0126 EA 4' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....      | 1,153.35                  | 146.10                  |
| For Auxiliary Frame Reinforcement For Hinges, Add   | 129.18                    |                         |
| For Welded Frames, Add  | 173.02                    |                         |
| For Galvanized Frames, Add  | 103.34                    |                         |
| For Type 304 Stainless Steel Frame, Add   | 1,564.72                  |                         |
| For Type 316 Stainless Steel Frame, Add   | 1,823.07                  |                         |
| For Baked Enamel Finish, Add  | 302.18                    |                         |
| For 18 Gauge Frame, Deduct  | -86.12                    |                         |
| For 14 Gauge Frame, Add   | 215.29                    |                         |
| For 12 Gauge Frame, Add   | 327.24                    |                         |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 08 12 13 | 13-0127 | EA  | 5' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                           | 1,195.75               | 152.44               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 133.63                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 106.90                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,618.79               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,886.05               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 312.99                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -89.09                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 222.72                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 338.53                 |                      |
| 08 12 13 | 13-0128 | EA  | 5'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                        | 1,208.44               | 158.79               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 133.63                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 106.90                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,619.43               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,886.69               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 314.90                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -89.09                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 222.72                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 338.53                 |                      |
| 08 12 13 | 13-0129 | EA  | 5'-8" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                        | 1,229.65               | 161.97               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 135.86                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 108.69                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,646.48               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,918.19               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 320.30                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -90.57                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 226.43                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 344.17                 |                      |
| 08 12 13 | 13-0130 | EA  | 6' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                           | 1,250.85               | 165.15               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 138.08                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 110.47                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,673.52               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,949.69               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 325.71                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -92.06                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 230.14                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 349.81                 |                      |
| 08 12 13 | 13-0131 | EA  | 7' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                           | 1,316.58               | 168.32               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 146.99                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 117.59                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,780.72               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 2,074.71               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 344.48                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -97.99                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 244.99                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 372.38                 |                      |
| 08 12 13 | 13-0132 | EA  | 8' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                           | 1,382.34               | 171.50               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 155.90                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 124.72                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,887.96               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 2,199.76               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 363.25                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -103.93                |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 259.84                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 394.95                 |                      |
| 08 12 13 | 13-0133 |     | 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door<br>Frames <small>(08 12 13 13)</small>                                |                        |                      |
|          |         |     | Note: For non-rated or fire rated frame assemblies  |                        |                      |
| 08 12 13 | 13-0134 |     | 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down<br>Hollow Metal Door Frames <small>(08 12 13 13-0133)</small> |                        |                      |
| 08 12 13 | 13-0135 | EA  | 2' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....                            | 777.91                 | 95.28                |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 88.10                  |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 70.48                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,066.76               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,242.96               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 204.79                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -58.74                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 146.84                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 223.19                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|----------|---------|-----|--|---|----------------------|
| 08 12 13 | 13-0136 | EA  | 2'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>  | 908.83<br>104.88<br>173.02<br>83.91<br>1,269.08<br>1,478.84<br>241.21<br>-69.92<br>174.81<br>265.70   | 104.81               |
| 08 12 13 | 13-0137 | EA  | 2'-6" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>  | 932.73<br>106.56<br>173.02<br>85.25<br>1,289.85<br>1,502.98<br>246.47<br>-71.04<br>177.60<br>269.96   | 111.15               |
| 08 12 13 | 13-0138 | EA  | 2'-8" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>  | 951.78<br>106.56<br>173.02<br>85.25<br>1,290.81<br>1,503.93<br>249.33<br>-71.04<br>177.60<br>269.96   | 120.68               |
| 08 12 13 | 13-0139 | EA  | 2'-10" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i> | 969.32<br>108.24<br>173.02<br>86.59<br>1,311.27<br>1,527.75<br>253.64<br>-72.16<br>180.40<br>274.21   | 123.86               |
| 08 12 13 | 13-0140 | EA  | 3' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>      | 986.86<br>109.92<br>173.02<br>87.93<br>1,331.73<br>1,551.56<br>257.95<br>-73.28<br>183.20<br>278.46   | 127.04               |
| 08 12 13 | 13-0141 | EA  | 3'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>  | 1,049.91<br>117.47<br>173.02<br>93.98<br>1,422.97<br>1,657.91<br>274.96<br>-78.31<br>195.78<br>297.59 | 133.99               |
| 08 12 13 | 13-0142 | EA  | 3'-6" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>  | 1,062.60<br>117.47<br>173.02<br>93.98<br>1,423.61<br>1,658.55<br>276.86<br>-78.31<br>195.78<br>297.59 | 139.74               |
| 08 12 13 | 13-0143 | EA  | 4' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....<br><i>For Auxiliary Frame Reinforcement For Hinges, Add</i><br><i>For Welded Frames, Add</i><br><i>For Galvanized Frames, Add</i><br><i>For Type 304 Stainless Steel Frame, Add</i><br><i>For Type 316 Stainless Steel Frame, Add</i><br><i>For Baked Enamel Finish, Add</i><br><i>For 18 Gauge Frame, Deduct</i><br><i>For 14 Gauge Frame, Add</i><br><i>For 12 Gauge Frame, Add</i>      | 1,103.28<br>121.67<br>173.02<br>97.33<br>1,474.59<br>1,717.92<br>287.16<br>-81.11<br>202.78<br>308.22 | 146.10               |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 08 12 13 | 13-0144 | EA  | 5' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,143.96               | 152.44               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 125.86                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 100.69                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,525.57               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,777.29               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 297.45                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -83.91                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 209.77                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 318.85                 |                      |
| 08 12 13 | 13-0145 | EA  | 5'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,156.65               | 158.79               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 125.86                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 100.69                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,526.21               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,777.93               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 299.36                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -83.91                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 209.77                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 318.85                 |                      |
| 08 12 13 | 13-0146 | EA  | 5'-8" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,176.99               | 161.97               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 127.96                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 102.37                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,551.69               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,807.60               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 304.51                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -85.31                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 213.26                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 324.16                 |                      |
| 08 12 13 | 13-0147 | EA  | 6' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,197.33               | 165.15               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 130.06                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 104.04                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,577.19               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,837.30               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 309.66                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -86.70                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 216.76                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 329.48                 |                      |
| 08 12 13 | 13-0148 | EA  | 7' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,259.61               | 168.32               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 138.45                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 110.76                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,678.18               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,955.07               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 327.39                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -92.30                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 230.74                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 350.73                 |                      |
| 08 12 13 | 13-0149 | EA  | 8' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....    | 1,321.92               | 171.50               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 146.84                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 117.47                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,779.21               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 2,072.88               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 345.13                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -97.89                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 244.73                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 371.99                 |                      |
| 08 12 13 | 13-0150 |     | <b>&gt;7'-2" Through 9'-0" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames</b>  |                        |                      |
|          |         |     | <small>(08 12 13 13-0133)</small>  |                        |                      |
| 08 12 13 | 13-0151 | EA  | 2' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....      | 843.17                 | 95.28                |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 97.89                  |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 78.31                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,184.23               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,380.01               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 224.37                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -65.26                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 163.15                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 247.99                 |                      |
| 08 12 13 | 13-0152 | EA  | 2'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....   | 986.53                 | 104.81               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 116.54                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>  | 93.23                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,408.94               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,642.01               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 264.52                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>  | -77.69                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>   | 194.23                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>   | 295.23                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 08 12 13 | 13-0153 | EA  | 2'-6" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 1,011.67               | 111.15               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 118.40                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 94.72                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,431.95               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,668.75               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 270.15                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -78.94                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 197.34                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 299.95                 |                      |
| 08 12 13 | 13-0154 | EA  | 2'-8" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 1,030.72               | 120.68               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 118.40                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 94.72                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,432.90               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,669.70               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 273.01                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -78.94                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 197.34                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 299.95                 |                      |
| 08 12 13 | 13-0155 | EA  | 2'-10" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,049.50               | 123.86               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 120.27                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 96.21                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,455.59               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,696.12               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 277.69                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -80.18                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 200.45                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 304.68                 |                      |
| 08 12 13 | 13-0156 | EA  | 3' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....    | 1,068.28               | 127.04               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 122.13                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 97.71                  |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,478.28               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,722.54               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 282.37                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -81.42                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 203.55                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 309.40                 |                      |
| 08 12 13 | 13-0157 | EA  | 3'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 1,136.93               | 133.39               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 130.52                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 104.42                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,579.61               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,840.65               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 301.06                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -87.02                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 217.54                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 330.66                 |                      |
| 08 12 13 | 13-0158 | EA  | 3'-6" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....  | 1,149.62               | 139.74               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 130.52                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 104.42                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,580.24               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,841.29               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 302.97                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -87.02                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 217.54                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 330.66                 |                      |
| 08 12 13 | 13-0159 | EA  | 4' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....    | 1,193.40               | 146.10               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 135.18                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 108.15                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,636.81               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,907.17               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 314.19                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -90.12                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 225.31                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 342.46                 |                      |
| 08 12 13 | 13-0160 | EA  | 5' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....    | 1,237.19               | 152.44               |
|          |         |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>  | 139.85                 |                      |
|          |         |     | <i>For Welded Frames, Add</i>   | 173.02                 |                      |
|          |         |     | <i>For Galvanized Frames, Add</i>   | 111.88                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Frame, Add</i>  | 1,693.38               |                      |
|          |         |     | <i>For Type 316 Stainless Steel Frame, Add</i>  | 1,973.07               |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 325.42                 |                      |
|          |         |     | <i>For 18 Gauge Frame, Deduct</i>   | -93.23                 |                      |
|          |         |     | <i>For 14 Gauge Frame, Add</i>  | 233.08                 |                      |
|          |         |     | <i>For 12 Gauge Frame, Add</i>  | 354.27                 |                      |



**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 12 13 13-0161 | EA  |     | 5'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,249.88               | 158.79               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 139.85                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 111.88                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,694.02               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 1,973.71               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 327.33                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -93.23                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 233.08                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 354.27                 |                      |
| 08 12 13 13-0162 | EA  |     | 5'-8" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... | 1,271.78               | 161.97               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 142.18                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 113.74                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,722.31               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 2,006.66               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 332.94                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -94.78                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 236.96                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 360.18                 |                      |
| 08 12 13 13-0163 | EA  |     | 6' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....   | 1,293.67               | 165.15               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 144.51                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 115.61                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,750.60               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 2,039.61               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 338.56                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -96.34                 |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 240.85                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 366.08                 |                      |
| 08 12 13 13-0164 | EA  |     | 7' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....   | 1,362.16               | 168.32               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 153.83                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 123.06                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,862.77               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 2,170.42               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 358.15                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -102.55                |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 256.38                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 389.70                 |                      |
| 08 12 13 13-0165 | EA  |     | 8' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame .....   | 1,430.68               | 171.50               |
|                  |     |     | <i>For Auxiliary Frame Reinforcement For Hinges, Add</i>   | 163.15                 |                      |
|                  |     |     | <i>For Welded Frames, Add</i>  | 173.02                 |                      |
|                  |     |     | <i>For Galvanized Frames, Add</i>  | 130.52                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Frame, Add</i>   | 1,974.97               |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Frame, Add</i>   | 2,301.28               |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>  | 377.75                 |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -108.77                |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 271.92                 |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 413.32                 |                      |
| 08 12 13 13-0166 |     |     | <b>Sidelights And Transoms</b> (08 12 13 13)   |                        |                      |
|                  |     |     | Note: For non-rated or fire rated frame assemblies   |                        |                      |
| 08 12 13 13-0167 |     |     | <b>Fixed Steel Transoms</b> (08 12 13 13-0166)   |                        |                      |
|                  |     |     | Note: Excludes glazing.  |                        |                      |
| 08 12 13 13-0168 | SF  |     | 4-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom.....  | 88.39                  | 17.79                |
|                  |     |     | <i>For Movable Frame, Add</i>  | 17.68                  |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -5.28                  |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 13.21                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 20.07                  |                      |
| 08 12 13 13-0169 | SF  |     | 5-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom.....  | 92.26                  | 18.42                |
|                  |     |     | <i>For Movable Frame, Add</i>  | 18.45                  |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -5.54                  |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 13.86                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 21.06                  |                      |
| 08 12 13 13-0170 | SF  |     | 6-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom.....  | 96.32                  | 19.06                |
|                  |     |     | <i>For Movable Frame, Add</i>  | 19.26                  |                      |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -5.82                  |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 14.55                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 22.12                  |                      |
| 08 12 13 13-0171 |     |     | <b>Operable Steel Transom Sash</b> (08 12 13 13-0166)  |                        |                      |
|                  |     |     | Note: Includes hardware.   |                        |                      |
| 08 12 13 13-0172 | SF  |     | 4-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash.....  | 124.07                 | 17.79                |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -8.85                  |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 22.13                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 33.63                  |                      |
| 08 12 13 13-0173 | SF  |     | 5-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash.....  | 129.78                 | 18.42                |
|                  |     |     | <i>For 18 Gauge Frame, Deduct</i>  | -9.29                  |                      |
|                  |     |     | <i>For 14 Gauge Frame, Add</i>   | 23.24                  |                      |
|                  |     |     | <i>For 12 Gauge Frame, Add</i>   | 35.32                  |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 12 13 13-0174 SF 6-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash.....         | 135.68                    | 19.06                   |
| For 18 Gauge Frame, Deduct  | -9.76                     |                         |
| For 14 Gauge Frame, Add   | 24.39                     |                         |
| For 12 Gauge Frame, Add   | 37.08                     |                         |
| <b>08 12 13 13-0175 Sidelights, Steel Frame</b> (08 12 13 13-0166)                        |                           |                         |
| Note: Excludes glazing.   |                           |                         |
| 08 12 13 13-0176 SF 4-3/4" Deep Sidelights, 16 Gauge Frame .....                          | 92.33                     | 17.79                   |
| For 18 Gauge Frame, Deduct  | -5.68                     |                         |
| For 14 Gauge Frame, Add   | 14.19                     |                         |
| For 12 Gauge Frame, Add   | 21.57                     |                         |
| 08 12 13 13-0177 SF 5-3/4" Deep Sidelights, 16 Gauge Frame .....                          | 96.45                     | 18.42                   |
| For 18 Gauge Frame, Deduct  | -5.96                     |                         |
| For 14 Gauge Frame, Add   | 14.90                     |                         |
| For 12 Gauge Frame, Add   | 22.65                     |                         |
| 08 12 13 13-0178 SF 6-3/4" Deep Sidelights, 16 Gauge Frame .....                          | 100.68                    | 19.06                   |
| For 18 Gauge Frame, Deduct  | -6.26                     |                         |
| For 14 Gauge Frame, Add   | 15.64                     |                         |
| For 12 Gauge Frame, Add   | 23.78                     |                         |
| <b>08 12 13 13-0179 Sundry Hollow Metal Frame Sections</b> (08 12 13 13)                  |                           |                         |
| Note: For non-rated or fire rated frame assemblies  |                           |                         |
| <b>08 12 13 13-0180 16 Gauge, Hollow Metal Frame Vertical Mullions</b> (08 12 13 13-0179) |                           |                         |
| 08 12 13 13-0181 LF 4-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Vertical Mullion .....  | 43.25                     | 7.11                    |
| For 18 Gauge Frame, Deduct  | -2.54                     |                         |
| For 14 Gauge Frame, Add   | 6.34                      |                         |
| For 12 Gauge Frame, Add   | 9.64                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0182 LF 4-3/4" x 2", 16 Gauge, Hollow Metal Frame Vertical Mullion.....       | 44.28                     | 7.11                    |
| For 18 Gauge Frame, Deduct  | -2.64                     |                         |
| For 14 Gauge Frame, Add   | 6.60                      |                         |
| For 12 Gauge Frame, Add   | 10.03                     |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0183 LF 5-1/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Vertical Mullion .....  | 43.77                     | 7.36                    |
| For 18 Gauge Frame, Deduct  | -2.54                     |                         |
| For 14 Gauge Frame, Add   | 6.34                      |                         |
| For 12 Gauge Frame, Add   | 9.64                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0184 LF 5-1/4" x 2", 16 Gauge, Hollow Metal Frame Vertical Mullion.....       | 45.36                     | 7.36                    |
| For 18 Gauge Frame, Deduct  | -2.70                     |                         |
| For 14 Gauge Frame, Add   | 6.74                      |                         |
| For 12 Gauge Frame, Add   | 10.24                     |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0185 LF 6-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Vertical Mullion .....  | 45.45                     | 7.50                    |
| For 18 Gauge Frame, Deduct  | -2.66                     |                         |
| For 14 Gauge Frame, Add   | 6.66                      |                         |
| For 12 Gauge Frame, Add   | 10.12                     |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0186 LF 6-3/4" x 2", 16 Gauge, Hollow Metal Frame Vertical Mullion.....       | 46.05                     | 7.50                    |
| For 18 Gauge Frame, Deduct  | -2.72                     |                         |
| For 14 Gauge Frame, Add   | 6.81                      |                         |
| For 12 Gauge Frame, Add   | 10.35                     |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| <b>08 12 13 13-0187 16 Gauge, Hollow Metal Frame Horizontal Rails</b> (08 12 13 13-0179)  |                           |                         |
| 08 12 13 13-0188 LF 4-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Horizontal Rail .....   | 30.57                     | 7.11                    |
| For 18 Gauge Frame, Deduct  | -1.27                     |                         |
| For 14 Gauge Frame, Add   | 3.17                      |                         |
| For 12 Gauge Frame, Add   | 4.82                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0189 LF 4-3/4" x 2", 16 Gauge, Hollow Metal Frame Horizontal Rail.....        | 31.87                     | 7.11                    |
| For 18 Gauge Frame, Deduct  | -1.40                     |                         |
| For 14 Gauge Frame, Add   | 3.50                      |                         |
| For 12 Gauge Frame, Add   | 5.31                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |

**08 Openings****08 10 Doors and Frames****08 12 Metal Frames**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 12 13 13-0190 LF 5-1/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Horizontal Rail .....                                     | 31.09                     | 7.36                    |
| For 18 Gauge Frame, Deduct  | -1.27                     |                         |
| For 14 Gauge Frame, Add   | 3.17                      |                         |
| For 12 Gauge Frame, Add   | 4.82                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0191 LF 5-1/4" x 2", 16 Gauge, Hollow Metal Frame Horizontal Rail.....  | 32.39                     | 7.36                    |
| For 18 Gauge Frame, Deduct  | -1.40                     |                         |
| For 14 Gauge Frame, Add   | 3.50                      |                         |
| For 12 Gauge Frame, Add   | 5.31                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0192 LF 6-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Horizontal Rail .....                                     | 32.14                     | 7.50                    |
| For 18 Gauge Frame, Deduct  | -1.33                     |                         |
| For 14 Gauge Frame, Add   | 3.33                      |                         |
| For 12 Gauge Frame, Add   | 5.06                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| 08 12 13 13-0193 LF 6-3/4" x 2", 16 Gauge, Hollow Metal Frame Horizontal Rail.....  | 33.26                     | 7.50                    |
| For 18 Gauge Frame, Deduct  | -1.44                     |                         |
| For 14 Gauge Frame, Add   | 3.61                      |                         |
| For 12 Gauge Frame, Add   | 5.49                      |                         |
| For 3 Hour Frame, Add   | 8.00                      |                         |
| For 1-1/2 Hour Frame, Add   | 5.00                      |                         |
| For 3/4 Hour Frame, Add   | 4.00                      |                         |
| <b>08 12 13 13-0194 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullions</b> (08 12 13 13-0179)                   |                           |                         |
| 08 12 13 13-0195 EA 4-3/4" x 1-3/4" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion .....            | 1,130.92                  | 49.80                   |
| For 18 Gauge Frame, Deduct  | -100.64                   |                         |
| For 14 Gauge Frame, Add   | 251.61                    |                         |
| For 12 Gauge Frame, Add   | 382.44                    |                         |
| 08 12 13 13-0196 EA 4-3/4" x 2" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion.....                 | 1,171.07                  | 49.80                   |
| For 18 Gauge Frame, Deduct  | -104.66                   |                         |
| For 14 Gauge Frame, Add   | 261.65                    |                         |
| For 12 Gauge Frame, Add   | 397.70                    |                         |
| 08 12 13 13-0197 EA 5-1/4" x 1-3/4" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion .....            | 1,296.75                  | 52.09                   |
| For 18 Gauge Frame, Deduct  | -116.84                   |                         |
| For 14 Gauge Frame, Add   | 292.11                    |                         |
| For 12 Gauge Frame, Add   | 444.01                    |                         |
| For 3 Hour Frame, Add   | 56.00                     |                         |
| For 1-1/2 Hour Frame, Add   | 36.00                     |                         |
| For 3/4 Hour Frame, Add   | 28.00                     |                         |
| 08 12 13 13-0198 EA 5-1/4" x 2" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion.....                 | 1,332.59                  | 52.09                   |
| For 18 Gauge Frame, Deduct  | -120.43                   |                         |
| For 14 Gauge Frame, Add   | 301.07                    |                         |
| For 12 Gauge Frame, Add   | 457.63                    |                         |
| For 3 Hour Frame, Add   | 56.00                     |                         |
| For 1-1/2 Hour Frame, Add   | 36.00                     |                         |
| For 3/4 Hour Frame, Add   | 28.00                     |                         |
| 08 12 13 13-0199 EA 6-3/4" x 1-3/4" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion .....            | 1,506.84                  | 53.35                   |
| For 18 Gauge Frame, Deduct  | -137.35                   |                         |
| For 14 Gauge Frame, Add   | 343.36                    |                         |
| For 12 Gauge Frame, Add   | 521.91                    |                         |
| For 3 Hour Frame, Add   | 56.00                     |                         |
| For 1-1/2 Hour Frame, Add   | 36.00                     |                         |
| For 3/4 Hour Frame, Add   | 28.00                     |                         |
| 08 12 13 13-0200 EA 6-3/4" x 2" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion.....                 | 1,531.21                  | 53.35                   |
| For 18 Gauge Frame, Deduct  | -139.78                   |                         |
| For 14 Gauge Frame, Add   | 349.46                    |                         |
| For 12 Gauge Frame, Add   | 531.17                    |                         |
| For 3 Hour Frame, Add   | 56.00                     |                         |
| For 1-1/2 Hour Frame, Add   | 36.00                     |                         |
| For 3/4 Hour Frame, Add   | 28.00                     |                         |
| <b>08 12 13 13-0201 Metal Frames Accessories</b> (08 12 13 13)  |                           |                         |
| 08 12 13 13-0202 EA For 1' Extension Of New Door Frame .....  | 45.52                     |                         |
| <b>08 12 16 Aluminum Frames</b> (08 12)   |                           |                         |
| <b>08 12 16 00-0001 Two Piece Aluminum Door Frames</b> (08 12 16)   |                           |                         |
| <b>08 12 16 00-0002 4-1/8" x 3/8" Two Piece Aluminum Door Frames</b> (08 12 16 00-0001)                                     |                           |                         |
| 08 12 16 00-0003 EA Two Piece Aluminum Door Frame, 2'-2" x 6'-9" Opening 4-1/8" x 3/8" x 1/8" With Semicircular Head.....   | 2,921.84                  | 69.87                   |
| 08 12 16 00-0004 EA Two Piece Aluminum Door Frame, 2'-6" x 6'-9" Opening 4-1/8" x 3/8" x 1/8" With Semicircular Head.....   | 2,921.84                  | 69.87                   |
| <b>08 12 16 00-0005 4-3/4" x 1-3/8" Two Piece Aluminum Door Frames</b> (08 12 16 00-0001)                                   |                           |                         |
| 08 12 16 00-0006 EA Two Piece Aluminum Door Frame, 2'-2" x 6'-9" Opening 4-3/4" x 1-3/8" x 1/8" With Semicircular Head..... | 2,921.84                  | 69.87                   |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Frames     | 08 12     |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |    |  |          |       |
|------------------|----|--|----------|-------|
| 08 12 16 00-0007 | EA | Two Piece Aluminum Door Frame Piece Aluminum Door Frame, 2'-6" x 6'-9" Opening 4-3/4" x 1-3/8" x 1/8" With Semicircular Head ..... | 2,921.84 | 69.87 |
|------------------|----|--|----------|-------|

**08 13 Metal Doors** (08 10)

Note: Includes machining for all hardware. Excludes frames, finish hardware.

**08 13 13 Hollow Metal Doors** (08 13)

**08 13 13 13 Standard Hollow Metal Doors** (08 13 13)

Note: Hollow Metal Doors are full flush, fabricated from cold rolled steel conforming to ASTM A1008, honeycomb core, interlocking mechanical vertical edge seam, with epoxy baked-on primer. Galvanized steel doors are fabricated from a carbon steel sheet and coated with zinc on two sides by the continuous hot-dip process. Hollow Metal Doors are organized by the following levels: 20 Gauge, Level 1 Standard Duty; 18 Gauge, Level 2 Heavy Duty; 16 Gauge, Level 3 Extra Heavy Duty; 14 Gauge, Level 4 Maximum Duty.

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 08 13 13 13-0001 |    | 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13)</small>                     |        |       |
| 08 13 13 13-0002 |    | 6'-8" High, 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13-0001)</small> |        |       |
| 08 13 13 13-0003 | EA | 2' x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                     | 724.40 | 69.87 |
|                  |    | <i>For Galvanized Steel Door, Add</i>   | 116.93 |       |
|                  |    | <i>For Type 304 Stainless Steel Door, Add</i>   | 467.73 |       |
|                  |    | <i>For Type 316 Stainless Steel Door, Add</i>   | 760.06 |       |
|                  |    | <i>For Embossed Panel Door, Add</i>   | 140.32 |       |
|                  |    | <i>For Baked Enamel Finish, Add</i>   | 196.36 |       |
|                  |    | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63  |       |
|                  |    | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40  |       |
|                  |    | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27  |       |
|                  |    | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38  |       |
|                  |    | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50 |       |
|                  |    | <i>For &gt;50 To 100, Deduct</i>  | -39.71 |       |
|                  |    | <i>For &gt;100, Deduct</i>  | -57.82 |       |
|                  |    | <i>For Polystyrene Core, Add</i>  | 58.47  |       |
|                  |    | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 146.17 |       |
|                  |    | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 73.08  |       |
| 08 13 13 13-0004 | EA | 2'-4" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                  | 724.40 | 69.87 |
|                  |    | <i>For Galvanized Steel Door, Add</i>   | 116.93 |       |
|                  |    | <i>For Type 304 Stainless Steel Door, Add</i>   | 467.73 |       |
|                  |    | <i>For Type 316 Stainless Steel Door, Add</i>   | 760.06 |       |
|                  |    | <i>For Embossed Panel Door, Add</i>   | 140.32 |       |
|                  |    | <i>For Baked Enamel Finish, Add</i>   | 196.36 |       |
|                  |    | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63  |       |
|                  |    | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40  |       |
|                  |    | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27  |       |
|                  |    | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38  |       |
|                  |    | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50 |       |
|                  |    | <i>For &gt;50 To 100, Deduct</i>  | -39.71 |       |
|                  |    | <i>For &gt;100, Deduct</i>  | -57.82 |       |
|                  |    | <i>For Polystyrene Core, Add</i>  | 58.47  |       |
|                  |    | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 146.17 |       |
|                  |    | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 73.08  |       |
| 08 13 13 13-0005 | EA | 2'-6" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                  | 742.72 | 73.04 |
|                  |    | <i>For Galvanized Steel Door, Add</i>   | 119.32 |       |
|                  |    | <i>For Type 304 Stainless Steel Door, Add</i>   | 477.30 |       |
|                  |    | <i>For Type 316 Stainless Steel Door, Add</i>   | 775.61 |       |
|                  |    | <i>For Embossed Panel Door, Add</i>   | 143.19 |       |
|                  |    | <i>For Baked Enamel Finish, Add</i>   | 200.90 |       |
|                  |    | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63  |       |
|                  |    | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40  |       |
|                  |    | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27  |       |
|                  |    | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38  |       |
|                  |    | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50 |       |
|                  |    | <i>For &gt;50 To 100, Deduct</i>  | -40.79 |       |
|                  |    | <i>For &gt;100, Deduct</i>  | -59.36 |       |
|                  |    | <i>For Polystyrene Core, Add</i>  | 59.66  |       |
|                  |    | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 149.16 |       |
|                  |    | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 74.58  |       |
| 08 13 13 13-0006 | EA | 2'-8" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                  | 751.62 | 73.04 |
|                  |    | <i>For Galvanized Steel Door, Add</i>   | 121.10 |       |
|                  |    | <i>For Type 304 Stainless Steel Door, Add</i>   | 484.42 |       |
|                  |    | <i>For Type 316 Stainless Steel Door, Add</i>   | 787.18 |       |
|                  |    | <i>For Embossed Panel Door, Add</i>   | 145.32 |       |
|                  |    | <i>For Baked Enamel Finish, Add</i>   | 203.57 |       |
|                  |    | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63  |       |
|                  |    | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40  |       |
|                  |    | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27  |       |
|                  |    | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38  |       |
|                  |    | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50 |       |
|                  |    | <i>For &gt;50 To 100, Deduct</i>  | -41.23 |       |
|                  |    | <i>For &gt;100, Deduct</i>  | -60.02 |       |
|                  |    | <i>For Polystyrene Core, Add</i>  | 60.55  |       |
|                  |    | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 151.38 |       |
|                  |    | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 75.69  |       |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 08 13 13 | 13-0007 | EA  | 2'-10" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door..... | 758.34                 | 74.63                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 121.82                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 487.26                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 791.80                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 146.18                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 205.11                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -41.65                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -60.61                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 60.91                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                | 152.27                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                | 76.14                  |                      |
| 08 13 13 | 13-0008 | EA  | 3' x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....     | 765.09                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 122.53                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 490.12                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 796.45                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 147.04                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 206.66                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -42.07                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -61.19                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 61.27                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                | 153.16                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                | 76.58                  |                      |
| 08 13 13 | 13-0009 | EA  | 3'-4" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....  | 811.39                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 131.79                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 527.16                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 856.64                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 158.15                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 220.55                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -44.38                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -64.67                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 65.90                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                | 164.74                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                | 82.37                  |                      |
| 08 13 13 | 13-0010 | EA  | 3'-6" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....  | 835.55                 | 79.40                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 135.35                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 541.41                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 879.79                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 162.42                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 226.85                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -45.75                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -66.64                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 67.68                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                | 169.19                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                | 84.60                  |                      |
| 08 13 13 | 13-0011 | EA  | 4' x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....     | 919.50                 | 85.75                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 149.60                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 598.40                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 972.40                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 179.52                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 250.13                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -50.26                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -73.25                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 74.80                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                | 187.00                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                | 93.50                  |                      |

08 13 13 13-0012 7' High, 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal  
Doors (08 13 13 13-0001)



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0013 EA 2' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....    | 739.72                    | 69.87                   |
| For Galvanized Steel Door, Add  | 120.00                    |                         |
| For Type 304 Stainless Steel Door, Add  | 479.98                    |                         |
| For Type 316 Stainless Steel Door, Add  | 779.97                    |                         |
| For Embossed Panel Door, Add  | 144.00                    |                         |
| For Baked Enamel Finish, Add  | 200.96                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -40.48                    |                         |
| For >100, Deduct  | -58.97                    |                         |
| For Polystyrene Core, Add   | 60.00                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 150.00                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 75.00                     |                         |
| 08 13 13 13-0014 EA 2'-4" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....  | 739.72                    | 69.87                   |
| For Galvanized Steel Door, Add  | 120.00                    |                         |
| For Type 304 Stainless Steel Door, Add  | 479.98                    |                         |
| For Type 316 Stainless Steel Door, Add  | 779.97                    |                         |
| For Embossed Panel Door, Add  | 144.00                    |                         |
| For Baked Enamel Finish, Add  | 200.96                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -40.48                    |                         |
| For >100, Deduct  | -58.97                    |                         |
| For Polystyrene Core, Add   | 60.00                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 150.00                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 75.00                     |                         |
| 08 13 13 13-0015 EA 2'-6" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....  | 758.35                    | 73.04                   |
| For Galvanized Steel Door, Add  | 122.45                    |                         |
| For Type 304 Stainless Steel Door, Add  | 489.80                    |                         |
| For Type 316 Stainless Steel Door, Add  | 795.93                    |                         |
| For Embossed Panel Door, Add  | 146.94                    |                         |
| For Baked Enamel Finish, Add  | 205.59                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -41.57                    |                         |
| For >100, Deduct  | -60.53                    |                         |
| For Polystyrene Core, Add   | 61.23                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 153.06                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 76.53                     |                         |
| 08 13 13 13-0016 EA 2'-8" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....  | 767.49                    | 73.04                   |
| For Galvanized Steel Door, Add  | 124.28                    |                         |
| For Type 304 Stainless Steel Door, Add  | 497.11                    |                         |
| For Type 316 Stainless Steel Door, Add  | 807.81                    |                         |
| For Embossed Panel Door, Add  | 149.13                    |                         |
| For Baked Enamel Finish, Add  | 208.33                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -42.03                    |                         |
| For >100, Deduct  | -61.21                    |                         |
| For Polystyrene Core, Add   | 62.14                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 155.35                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 77.67                     |                         |
| 08 13 13 13-0017 EA 2'-10" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door..... | 774.30                    | 74.63                   |
| For Galvanized Steel Door, Add  | 125.01                    |                         |
| For Type 304 Stainless Steel Door, Add  | 500.03                    |                         |
| For Type 316 Stainless Steel Door, Add  | 812.55                    |                         |
| For Embossed Panel Door, Add  | 150.01                    |                         |
| For Baked Enamel Finish, Add  | 209.90                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -42.45                    |                         |
| For >100, Deduct  | -61.80                    |                         |
| For Polystyrene Core, Add   | 62.50                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 156.26                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 78.13                     |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 08 13 13 | 13-0018 | EA  | 3' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                        | 781.14                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 125.74                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 502.96                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 817.31                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 150.89                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 211.48                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -42.87                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -62.40                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 62.87                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 157.18                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 78.59                  |                      |
| 08 13 13 | 13-0019 | EA  | 3'-4" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                     | 828.66                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 135.24                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 540.98                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 879.09                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 162.29                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 225.73                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -45.24                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -65.96                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 67.62                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 169.06                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 84.53                  |                      |
| 08 13 13 | 13-0020 | EA  | 3'-6" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                     | 853.28                 | 79.40                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 138.90                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 555.59                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 902.84                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 166.68                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 232.17                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -46.63                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -67.97                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 69.45                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 173.62                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 86.81                  |                      |
| 08 13 13 | 13-0021 | EA  | 4' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                        | 939.10                 | 85.75                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 153.52                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 614.08                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 997.88                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 184.22                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 256.01                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -51.24                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -74.72                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 76.76                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 191.90                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 95.95                  |                      |
| 08 13 13 | 13-0022 |     | 7'-2" High, 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13-0001)</small> |                        |                      |
| 08 13 13 | 13-0023 | EA  | 2' x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....                     | 754.60                 | 69.87                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 122.97                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 491.89                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 799.32                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 147.57                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 205.42                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -41.22                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -60.09                 |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 61.49                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>   | 153.72                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>   | 76.86                  |                      |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0024 EA 2'-4" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....  | 754.60                    | 69.87                   |
| For Galvanized Steel Door, Add  | 122.97                    |                         |
| For Type 304 Stainless Steel Door, Add  | 491.89                    |                         |
| For Type 316 Stainless Steel Door, Add  | 799.32                    |                         |
| For Embossed Panel Door, Add  | 147.57                    |                         |
| For Baked Enamel Finish, Add  | 205.42                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -41.22                    |                         |
| For >100, Deduct  | -60.09                    |                         |
| For Polystyrene Core, Add   | 61.49                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 153.72                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 76.86                     |                         |
| 08 13 13 13-0025 EA 2'-6" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....  | 773.54                    | 73.04                   |
| For Galvanized Steel Door, Add  | 125.49                    |                         |
| For Type 304 Stainless Steel Door, Add  | 501.95                    |                         |
| For Type 316 Stainless Steel Door, Add  | 815.67                    |                         |
| For Embossed Panel Door, Add  | 150.59                    |                         |
| For Baked Enamel Finish, Add  | 210.15                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -42.33                    |                         |
| For >100, Deduct  | -61.67                    |                         |
| For Polystyrene Core, Add   | 62.74                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 156.86                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 78.43                     |                         |
| 08 13 13 13-0026 EA 2'-8" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....  | 782.90                    | 73.04                   |
| For Galvanized Steel Door, Add  | 127.36                    |                         |
| For Type 304 Stainless Steel Door, Add  | 509.44                    |                         |
| For Type 316 Stainless Steel Door, Add  | 827.84                    |                         |
| For Embossed Panel Door, Add  | 152.83                    |                         |
| For Baked Enamel Finish, Add  | 212.96                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -42.80                    |                         |
| For >100, Deduct  | -62.37                    |                         |
| For Polystyrene Core, Add   | 63.68                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 159.20                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 79.60                     |                         |
| 08 13 13 13-0027 EA 2'-10" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door ..... | 789.80                    | 74.63                   |
| For Galvanized Steel Door, Add  | 128.11                    |                         |
| For Type 304 Stainless Steel Door, Add  | 512.43                    |                         |
| For Type 316 Stainless Steel Door, Add  | 832.70                    |                         |
| For Embossed Panel Door, Add  | 153.73                    |                         |
| For Baked Enamel Finish, Add  | 214.55                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -43.22                    |                         |
| For >100, Deduct  | -62.97                    |                         |
| For Polystyrene Core, Add   | 64.05                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 160.14                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 80.07                     |                         |
| 08 13 13 13-0028 EA 3' x 7'-2" x 1-3/4", 24 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door .....     | 796.73                    | 76.22                   |
| For Galvanized Steel Door, Add  | 128.86                    |                         |
| For Type 304 Stainless Steel Door, Add  | 515.43                    |                         |
| For Type 316 Stainless Steel Door, Add  | 837.58                    |                         |
| For Embossed Panel Door, Add  | 154.63                    |                         |
| For Baked Enamel Finish, Add  | 216.15                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -43.65                    |                         |
| For >100, Deduct  | -63.57                    |                         |
| For Polystyrene Core, Add   | 64.43                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 161.07                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 80.54                     |                         |



**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR            |  | TOTAL DIRECT | DEMOLITION |
|------------------|--|--------------|------------|
| CSI              | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 08 13 13 13-0029 | EA 3'-4" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door..... | 845.43       | 76.22      |
|                  | <i>For Galvanized Steel Door, Add</i>  | 138.60       |            |
|                  | <i>For Type 304 Stainless Steel Door, Add</i>  | 554.39       |            |
|                  | <i>For Type 316 Stainless Steel Door, Add</i>  | 900.89       |            |
|                  | <i>For Embossed Panel Door, Add</i>  | 166.32       |            |
|                  | <i>For Baked Enamel Finish, Add</i>  | 230.76       |            |
|                  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63        |            |
|                  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40        |            |
|                  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27        |            |
|                  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38        |            |
|                  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -46.08       |            |
|                  | <i>For &gt;100, Deduct</i>   | -67.22       |            |
|                  | <i>For Polystyrene Core, Add</i>   | 69.30        |            |
|                  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 173.25       |            |
|                  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 86.62        |            |
| 08 13 13 13-0030 | EA 3'-6" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door..... | 870.51       | 79.40      |
|                  | <i>For Galvanized Steel Door, Add</i>  | 142.34       |            |
|                  | <i>For Type 304 Stainless Steel Door, Add</i>  | 569.38       |            |
|                  | <i>For Type 316 Stainless Steel Door, Add</i>  | 925.24       |            |
|                  | <i>For Embossed Panel Door, Add</i>  | 170.81       |            |
|                  | <i>For Baked Enamel Finish, Add</i>  | 237.33       |            |
|                  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63        |            |
|                  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40        |            |
|                  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27        |            |
|                  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38        |            |
|                  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -47.50       |            |
|                  | <i>For &gt;100, Deduct</i>   | -69.26       |            |
|                  | <i>For Polystyrene Core, Add</i>   | 71.17        |            |
|                  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 177.93       |            |
|                  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 88.97        |            |
| 08 13 13 13-0031 | EA 4' x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....    | 958.13       | 85.75      |
|                  | <i>For Galvanized Steel Door, Add</i>  | 157.33       |            |
|                  | <i>For Type 304 Stainless Steel Door, Add</i>  | 629.30       |            |
|                  | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,022.62     |            |
|                  | <i>For Embossed Panel Door, Add</i>  | 188.79       |            |
|                  | <i>For Baked Enamel Finish, Add</i>  | 261.71       |            |
|                  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63        |            |
|                  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40        |            |
|                  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27        |            |
|                  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38        |            |
|                  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -52.19       |            |
|                  | <i>For &gt;100, Deduct</i>   | -76.15       |            |
|                  | <i>For Polystyrene Core, Add</i>   | 78.66        |            |
|                  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 196.66       |            |
|                  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 98.33        |            |
| 08 13 13 13-0032 | 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13</small>          |              |            |
|                  | <small>13)</small>   |              |            |
| 08 13 13 13-0033 | 6'-8" High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal                             |              |            |
|                  | Doors <small>(08 13 13 13-0032)</small>  |              |            |
| 08 13 13 13-0034 | EA 2' x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....       | 771.70       | 69.87      |
|                  | <i>For Galvanized Steel Door, Add</i>  | 126.39       |            |
|                  | <i>For Type 304 Stainless Steel Door, Add</i>  | 505.57       |            |
|                  | <i>For Type 316 Stainless Steel Door, Add</i>  | 821.55       |            |
|                  | <i>For Embossed Panel Door, Add</i>  | 151.67       |            |
|                  | <i>For Baked Enamel Finish, Add</i>  | 210.55       |            |
|                  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63        |            |
|                  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40        |            |
|                  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27        |            |
|                  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38        |            |
|                  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -42.08       |            |
|                  | <i>For &gt;100, Deduct</i>   | -61.37       |            |
|                  | <i>For 2" Thick Door, Add</i>  | 49.31        |            |
|                  | <i>For Polystyrene Core, Add</i>   | 63.20        |            |
|                  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 157.99       |            |
|                  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 79.00        |            |
|                  | <i>For Steel Stiffened, Add</i>  | 157.99       |            |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0035 EA 2'-4" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 771.70                    | 69.87                   |
| For Galvanized Steel Door, Add  | 126.39                    |                         |
| For Type 304 Stainless Steel Door, Add  | 505.57                    |                         |
| For Type 316 Stainless Steel Door, Add  | 821.55                    |                         |
| For Embossed Panel Door, Add  | 151.67                    |                         |
| For Baked Enamel Finish, Add  | 210.55                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -42.08                    |                         |
| For >100, Deduct  | -61.37                    |                         |
| For 2" Thick Door, Add  | 49.31                     |                         |
| For Polystyrene Core, Add   | 63.20                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 157.99                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 79.00                     |                         |
| For Steel Stiffened, Add  | 157.99                    |                         |
| 08 13 13 13-0036 EA 2'-6" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 790.98                    | 73.04                   |
| For Galvanized Steel Door, Add  | 128.98                    |                         |
| For Type 304 Stainless Steel Door, Add  | 515.90                    |                         |
| For Type 316 Stainless Steel Door, Add  | 838.34                    |                         |
| For Embossed Panel Door, Add  | 154.77                    |                         |
| For Baked Enamel Finish, Add  | 215.38                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -43.20                    |                         |
| For >100, Deduct  | -62.98                    |                         |
| For 2" Thick Door, Add  | 50.41                     |                         |
| For Polystyrene Core, Add   | 64.49                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 161.22                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 80.61                     |                         |
| For Steel Stiffened, Add  | 161.22                    |                         |
| 08 13 13 13-0037 EA 2'-8" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 800.61                    | 73.04                   |
| For Galvanized Steel Door, Add  | 130.90                    |                         |
| For Type 304 Stainless Steel Door, Add  | 523.61                    |                         |
| For Type 316 Stainless Steel Door, Add  | 850.86                    |                         |
| For Embossed Panel Door, Add  | 157.08                    |                         |
| For Baked Enamel Finish, Add  | 218.27                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -43.68                    |                         |
| For >100, Deduct  | -63.70                    |                         |
| For 2" Thick Door, Add  | 51.10                     |                         |
| For Polystyrene Core, Add   | 65.45                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 163.63                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 81.81                     |                         |
| For Steel Stiffened, Add  | 163.63                    |                         |
| 08 13 13 13-0038 EA 2'-10" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 807.61                    | 74.63                   |
| For Galvanized Steel Door, Add  | 131.67                    |                         |
| For Type 304 Stainless Steel Door, Add  | 526.68                    |                         |
| For Type 316 Stainless Steel Door, Add  | 855.86                    |                         |
| For Embossed Panel Door, Add  | 158.00                    |                         |
| For Baked Enamel Finish, Add  | 219.89                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -44.11                    |                         |
| For >100, Deduct  | -64.30                    |                         |
| For 2" Thick Door, Add  | 51.46                     |                         |
| For Polystyrene Core, Add   | 65.84                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 164.59                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 82.29                     |                         |
| For Steel Stiffened, Add  | 164.59                    |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 13 13 13-0039 | EA  |     | 3' x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....    | 814.65                 | 76.22                |
|                  |     |     | <i>For Galvanized Steel Door, Add</i>   | 132.44                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 529.77                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 860.87                 |                      |
|                  |     |     | <i>For Embossed Panel Door, Add</i>   | 158.93                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 221.53                 |                      |
|                  |     |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|                  |     |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|                  |     |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|                  |     |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|                  |     |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -44.54                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -64.91                 |                      |
|                  |     |     | <i>For 2" Thick Door, Add</i>   | 51.82                  |                      |
|                  |     |     | <i>For Polystyrene Core, Add</i>  | 66.22                  |                      |
|                  |     |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                             | 165.55                 |                      |
|                  |     |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                             | 82.78                  |                      |
|                  |     |     | <i>For Steel Stiffened, Add</i>   | 165.55                 |                      |
| 08 13 13 13-0040 | EA  |     | 3'-4" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 864.70                 | 76.22                |
|                  |     |     | <i>For Galvanized Steel Door, Add</i>   | 142.45                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 569.81                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 925.94                 |                      |
|                  |     |     | <i>For Embossed Panel Door, Add</i>   | 170.94                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 236.54                 |                      |
|                  |     |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|                  |     |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|                  |     |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|                  |     |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|                  |     |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -47.05                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -68.66                 |                      |
|                  |     |     | <i>For 2" Thick Door, Add</i>   | 55.45                  |                      |
|                  |     |     | <i>For Polystyrene Core, Add</i>  | 71.23                  |                      |
|                  |     |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                             | 178.07                 |                      |
|                  |     |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                             | 89.03                  |                      |
|                  |     |     | <i>For Steel Stiffened, Add</i>   | 178.07                 |                      |
| 08 13 13 13-0041 | EA  |     | 3'-6" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 890.30                 | 79.40                |
|                  |     |     | <i>For Galvanized Steel Door, Add</i>   | 146.30                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 585.21                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 950.96                 |                      |
|                  |     |     | <i>For Embossed Panel Door, Add</i>   | 175.56                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 243.27                 |                      |
|                  |     |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|                  |     |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|                  |     |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|                  |     |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|                  |     |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -48.48                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -70.74                 |                      |
|                  |     |     | <i>For 2" Thick Door, Add</i>   | 57.00                  |                      |
|                  |     |     | <i>For Polystyrene Core, Add</i>  | 73.15                  |                      |
|                  |     |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                             | 182.88                 |                      |
|                  |     |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                             | 91.44                  |                      |
|                  |     |     | <i>For Steel Stiffened, Add</i>   | 182.88                 |                      |
| 08 13 13 13-0042 | EA  |     | 4' x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....    | 980.01                 | 85.75                |
|                  |     |     | <i>For Galvanized Steel Door, Add</i>   | 161.70                 |                      |
|                  |     |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 646.81                 |                      |
|                  |     |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,051.06               |                      |
|                  |     |     | <i>For Embossed Panel Door, Add</i>   | 194.04                 |                      |
|                  |     |     | <i>For Baked Enamel Finish, Add</i>   | 268.28                 |                      |
|                  |     |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|                  |     |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|                  |     |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|                  |     |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|                  |     |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -53.29                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -77.79                 |                      |
|                  |     |     | <i>For 2" Thick Door, Add</i>   | 62.90                  |                      |
|                  |     |     | <i>For Polystyrene Core, Add</i>  | 80.85                  |                      |
|                  |     |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                             | 202.13                 |                      |
|                  |     |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                             | 101.06                 |                      |
|                  |     |     | <i>For Steel Stiffened, Add</i>   | 202.13                 |                      |

08 13 13 13-0043 7' High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0032)



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Doors      | 08 13     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 13 13 13-0044 EA 2' x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....     | 786.70                    | 69.87                   |
| For Galvanized Steel Door, Add   | 129.39                    |                         |
| For Type 304 Stainless Steel Door, Add   | 517.57                    |                         |
| For Type 316 Stainless Steel Door, Add   | 841.05                    |                         |
| For Embossed Panel Door, Add   | 155.27                    |                         |
| For Baked Enamel Finish, Add   | 215.05                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -42.83                    |                         |
| For >100, Deduct   | -62.50                    |                         |
| For 2" Thick Door, Add   | 50.40                     |                         |
| For Polystyrene Core, Add  | 64.70                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 161.74                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 80.87                     |                         |
| For Steel Stiffened, Add   | 161.74                    |                         |
| 08 13 13 13-0045 EA 2'-4" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 786.70                    | 69.87                   |
| For Galvanized Steel Door, Add   | 129.39                    |                         |
| For Type 304 Stainless Steel Door, Add   | 517.57                    |                         |
| For Type 316 Stainless Steel Door, Add   | 841.05                    |                         |
| For Embossed Panel Door, Add   | 155.27                    |                         |
| For Baked Enamel Finish, Add   | 215.05                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -42.83                    |                         |
| For >100, Deduct   | -62.50                    |                         |
| For 2" Thick Door, Add   | 50.40                     |                         |
| For Polystyrene Core, Add  | 64.70                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 161.74                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 80.87                     |                         |
| For Steel Stiffened, Add   | 161.74                    |                         |
| 08 13 13 13-0046 EA 2'-6" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 806.29                    | 73.04                   |
| For Galvanized Steel Door, Add   | 132.04                    |                         |
| For Type 304 Stainless Steel Door, Add   | 528.15                    |                         |
| For Type 316 Stainless Steel Door, Add   | 858.25                    |                         |
| For Embossed Panel Door, Add   | 158.45                    |                         |
| For Baked Enamel Finish, Add   | 219.97                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -43.97                    |                         |
| For >100, Deduct   | -64.12                    |                         |
| For 2" Thick Door, Add   | 51.52                     |                         |
| For Polystyrene Core, Add  | 66.02                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 165.05                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 82.52                     |                         |
| For Steel Stiffened, Add   | 165.05                    |                         |
| 08 13 13 13-0047 EA 2'-8" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 816.14                    | 73.04                   |
| For Galvanized Steel Door, Add   | 134.01                    |                         |
| For Type 304 Stainless Steel Door, Add   | 536.03                    |                         |
| For Type 316 Stainless Steel Door, Add   | 871.05                    |                         |
| For Embossed Panel Door, Add   | 160.81                    |                         |
| For Baked Enamel Finish, Add   | 222.93                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -44.46                    |                         |
| For >100, Deduct   | -64.86                    |                         |
| For 2" Thick Door, Add   | 52.23                     |                         |
| For Polystyrene Core, Add  | 67.00                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 167.51                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 83.76                     |                         |
| For Steel Stiffened, Add   | 167.51                    |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 08 13 13 | 13-0048 | EA  | 2'-10" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 823.24                 | 74.63                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 134.80                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 539.18                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 876.17                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 161.76                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 224.58                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -44.89                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -65.47                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 52.60                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 67.40                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 168.50                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 84.25                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 168.50                 |                      |
| 08 13 13 | 13-0049 | EA  | 3' x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....     | 830.36                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 135.58                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 542.34                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 881.30                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 162.70                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 226.24                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -45.33                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -66.09                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 52.96                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 67.79                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 169.48                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 84.74                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 169.48                 |                      |
| 08 13 13 | 13-0050 | EA  | 3'-4" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 881.60                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 145.83                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 583.33                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 947.91                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 175.00                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 241.61                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -47.89                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -69.93                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 56.68                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 72.92                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 182.29                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 91.15                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 182.29                 |                      |
| 08 13 13 | 13-0051 | EA  | 3'-6" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 907.66                 | 79.40                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 149.77                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 599.10                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 973.53                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 179.73                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 248.48                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -49.35                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -72.04                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 58.26                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 74.89                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 187.22                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 93.61                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 187.22                 |                      |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0052 EA 4' x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....                  | 999.20                    | 85.75                   |
| For Galvanized Steel Door, Add  | 165.54                    |                         |
| For Type 304 Stainless Steel Door, Add  | 662.16                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,076.01                  |                         |
| For Embossed Panel Door, Add  | 198.65                    |                         |
| For Baked Enamel Finish, Add  | 274.04                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -54.25                    |                         |
| For >100, Deduct  | -79.23                    |                         |
| For 2" Thick Door, Add  | 64.30                     |                         |
| For Polystyrene Core, Add   | 82.77                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 206.93                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 103.46                    |                         |
| For Steel Stiffened, Add  | 206.93                    |                         |
| <b>08 13 13 13-0053 7'-2" High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal<br/>Doors (08 13 13 13-0032)</b> |                           |                         |
| 08 13 13 13-0054 EA 2' x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....              | 801.70                    | 69.87                   |
| For Galvanized Steel Door, Add  | 132.39                    |                         |
| For Type 304 Stainless Steel Door, Add  | 529.57                    |                         |
| For Type 316 Stainless Steel Door, Add  | 860.55                    |                         |
| For Embossed Panel Door, Add  | 158.87                    |                         |
| For Baked Enamel Finish, Add  | 219.55                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -43.58                    |                         |
| For >100, Deduct  | -63.62                    |                         |
| For 2" Thick Door, Add  | 51.49                     |                         |
| For Polystyrene Core, Add   | 66.20                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 165.49                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 82.75                     |                         |
| For Steel Stiffened, Add  | 165.49                    |                         |
| 08 13 13 13-0055 EA 2'-4" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....            | 801.70                    | 69.87                   |
| For Galvanized Steel Door, Add  | 132.39                    |                         |
| For Type 304 Stainless Steel Door, Add  | 529.57                    |                         |
| For Type 316 Stainless Steel Door, Add  | 860.55                    |                         |
| For Embossed Panel Door, Add  | 158.87                    |                         |
| For Baked Enamel Finish, Add  | 219.55                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -43.58                    |                         |
| For >100, Deduct  | -63.62                    |                         |
| For 2" Thick Door, Add  | 51.49                     |                         |
| For Polystyrene Core, Add   | 66.20                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 165.49                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 82.75                     |                         |
| For Steel Stiffened, Add  | 165.49                    |                         |
| 08 13 13 13-0056 EA 2'-6" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....            | 821.60                    | 73.04                   |
| For Galvanized Steel Door, Add  | 135.10                    |                         |
| For Type 304 Stainless Steel Door, Add  | 540.40                    |                         |
| For Type 316 Stainless Steel Door, Add  | 878.15                    |                         |
| For Embossed Panel Door, Add  | 162.12                    |                         |
| For Baked Enamel Finish, Add  | 224.57                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -44.73                    |                         |
| For >100, Deduct  | -65.27                    |                         |
| For 2" Thick Door, Add  | 52.63                     |                         |
| For Polystyrene Core, Add   | 67.55                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 168.88                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 84.44                     |                         |
| For Steel Stiffened, Add  | 168.88                    |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 08 13 13 | 13-0057 | EA  | 2'-8" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 831.68                 | 73.04                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 137.12                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 548.46                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 891.25                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 164.54                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 227.59                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -45.24                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -66.03                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 53.36                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 68.56                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                            | 171.40                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                            | 85.70                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 171.40                 |                      |
| 08 13 13 | 13-0058 | EA  | 3' x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....   | 846.08                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 138.73                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 554.91                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 901.73                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 166.47                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 230.96                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -46.12                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -67.27                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 54.10                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 69.36                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                            | 173.41                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                            | 86.71                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 173.41                 |                      |
| 08 13 13 | 13-0059 | EA  | 3'-4" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 898.51                 | 76.22                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 149.21                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 596.86                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 969.89                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 179.06                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 246.69                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -48.74                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -71.20                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 57.90                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 74.61                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                            | 186.52                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                            | 93.26                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 186.52                 |                      |
| 08 13 13 | 13-0060 | EA  | 3'-6" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 925.02                 | 79.40                |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 153.25                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 612.98                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 996.10                 |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 183.90                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 253.69                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -50.22                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -73.35                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 59.52                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 76.62                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                            | 191.56                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                            | 95.78                  |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 191.56                 |                      |



|                  |           |           |
|------------------|-----------|-----------|
| <b>Openings</b>  | <b>08</b> | <b>08</b> |
| Doors and Frames | 08 10     |           |
| Metal Doors      | 08 13     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0061 EA 4' x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....                  | 1,018.39                  | 85.75                   |
| For Galvanized Steel Door, Add  | 169.38                    |                         |
| For Type 304 Stainless Steel Door, Add  | 677.51                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,100.96                  |                         |
| For Embossed Panel Door, Add  | 203.25                    |                         |
| For Baked Enamel Finish, Add  | 279.79                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -55.21                    |                         |
| For >100, Deduct  | -80.67                    |                         |
| For 2" Thick Door, Add  | 65.69                     |                         |
| For Polystyrene Core, Add   | 84.69                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 211.72                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 105.86                    |                         |
| For Steel Stiffened, Add  | 211.72                    |                         |
| <br>  |                           |                         |
| 08 13 13 13-0062 8' High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal<br>Doors <small>(08 13 13 13-0032)</small> |                           |                         |
| 08 13 13 13-0063 EA 2' x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....                     | 925.41                    | 69.87                   |
| For Up To 1' Extra Height, Add  | 217.39                    |                         |
| For 1' To 1'-6" Extra Height, Add   | 414.76                    |                         |
| For Galvanized Steel Door, Add  | 157.13                    |                         |
| For Type 304 Stainless Steel Door, Add  | 628.54                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,021.37                  |                         |
| For Embossed Panel Door, Add  | 188.56                    |                         |
| For Baked Enamel Finish, Add  | 256.66                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -49.76                    |                         |
| For >100, Deduct  | -72.90                    |                         |
| For 2" Thick Door, Add  | 60.45                     |                         |
| For Polystyrene Core, Add   | 78.57                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 196.42                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 98.21                     |                         |
| For Steel Stiffened, Add  | 196.42                    |                         |
| 08 13 13 13-0064 EA 2'-4" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....                  | 925.41                    | 69.87                   |
| For Up To 1' Extra Height, Add  | 217.39                    |                         |
| For 1' To 1'-6" Extra Height, Add   | 414.76                    |                         |
| For Galvanized Steel Door, Add  | 157.13                    |                         |
| For Type 304 Stainless Steel Door, Add  | 628.54                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,021.37                  |                         |
| For Embossed Panel Door, Add  | 188.56                    |                         |
| For Baked Enamel Finish, Add  | 256.66                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -49.76                    |                         |
| For >100, Deduct  | -72.90                    |                         |
| For 2" Thick Door, Add  | 60.45                     |                         |
| For Polystyrene Core, Add   | 78.57                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 196.42                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 98.21                     |                         |
| For Steel Stiffened, Add  | 196.42                    |                         |
| 08 13 13 13-0065 EA 2'-6" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....                  | 947.84                    | 73.04                   |
| For Up To 1' Extra Height, Add  | 221.84                    |                         |
| For 1' To 1'-6" Extra Height, Add   | 423.24                    |                         |
| For Galvanized Steel Door, Add  | 160.35                    |                         |
| For Type 304 Stainless Steel Door, Add  | 641.39                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,042.26                  |                         |
| For Embossed Panel Door, Add  | 192.42                    |                         |
| For Baked Enamel Finish, Add  | 262.44                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -51.04                    |                         |
| For >100, Deduct  | -74.74                    |                         |
| For 2" Thick Door, Add  | 61.78                     |                         |
| For Polystyrene Core, Add   | 80.17                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 200.44                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 100.22                    |                         |
| For Steel Stiffened, Add  | 200.44                    |                         |



**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |   |          |       |
|------------------|----|--|---|----------|-------|
| 08 13 13 13-0066 | EA |  | 2'-8" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 959.81   | 73.04 |
|                  |    |  | <i>For Up To 1' Extra Height, Add</i>   | 225.15   |       |
|                  |    |  | <i>For 1' To 1'-6" Extra Height, Add</i>  | 429.56   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 162.74   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 650.97   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,057.82 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 195.29   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 266.03   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -51.64   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -75.64   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 62.65    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 81.37    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 203.43   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 101.71   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 203.43   |       |
| 08 13 13 13-0067 | EA |  | 2'-10" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 967.75   | 74.63 |
|                  |    |  | <i>For Up To 1' Extra Height, Add</i>   | 226.48   |       |
|                  |    |  | <i>For 1' To 1'-6" Extra Height, Add</i>  | 432.08   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 163.70   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 654.79   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,064.04 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 196.44   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 267.94   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -52.12   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -76.31   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 63.07    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 81.85    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 204.62   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 102.31   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 204.62   |       |
| 08 13 13 13-0068 | EA |  | 3' x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....     | 975.72   | 76.22 |
|                  |    |  | <i>For Up To 1' Extra Height, Add</i>   | 227.80   |       |
|                  |    |  | <i>For 1' To 1'-6" Extra Height, Add</i>  | 434.61   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 164.66   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 658.62   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,070.26 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 197.59   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 269.85   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -52.60   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -76.99   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 63.50    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 82.33    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 205.82   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 102.91   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 205.82   |       |
| 08 13 13 13-0069 | EA |  | 3'-4" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 1,037.94 | 76.22 |
|                  |    |  | <i>For Up To 1' Extra Height, Add</i>   | 245.02   |       |
|                  |    |  | <i>For 1' To 1'-6" Extra Height, Add</i>  | 467.46   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 177.10   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 708.40   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,151.15 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 212.52   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 288.52   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -55.71   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -81.66   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 68.01    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 88.55    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                           | 221.38   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                           | 110.69   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 221.38   |       |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 13 13 13-0070 EA 3'-6" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....                           | 1,068.23                  | 79.40                   |
| For Up To 1' Extra Height, Add   | 251.64                    |                         |
| For 1' To 1'-6" Extra Height, Add  | 480.09                    |                         |
| For Galvanized Steel Door, Add   | 181.89                    |                         |
| For Type 304 Stainless Steel Door, Add   | 727.55                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,182.27                  |                         |
| For Embossed Panel Door, Add   | 218.27                    |                         |
| For Baked Enamel Finish, Add   | 296.65                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -57.38                    |                         |
| For >100, Deduct   | -84.09                    |                         |
| For 2" Thick Door, Add   | 69.90                     |                         |
| For Polystyrene Core, Add  | 90.94                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 227.36                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 113.68                    |                         |
| For Steel Stiffened, Add   | 227.36                    |                         |
| 08 13 13 13-0071 EA 4' x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door .....                              | 1,176.66                  | 85.75                   |
| For Up To 1' Extra Height, Add   | 278.13                    |                         |
| For 1' To 1'-6" Extra Height, Add  | 530.62                    |                         |
| For Galvanized Steel Door, Add   | 201.03                    |                         |
| For Type 304 Stainless Steel Door, Add   | 804.13                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,306.71                  |                         |
| For Embossed Panel Door, Add   | 241.24                    |                         |
| For Baked Enamel Finish, Add   | 327.27                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -63.12                    |                         |
| For >100, Deduct   | -92.54                    |                         |
| For 2" Thick Door, Add   | 77.16                     |                         |
| For Polystyrene Core, Add  | 100.52                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 251.29                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 125.65                    |                         |
| For Steel Stiffened, Add   | 251.29                    |                         |
| 08 13 13 13-0072 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal<br>Doors <small>(08 13 13 13)</small>                  |                           |                         |
| 08 13 13 13-0073 6'-8" High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow<br>Metal Doors <small>(08 13 13 13-0072)</small> |                           |                         |
| 08 13 13 13-0074 EA 2' x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                     | 1,015.00                  | 69.87                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 350.10                    |                         |
| For Galvanized Steel Door, Add   | 175.05                    |                         |
| For Type 304 Stainless Steel Door, Add   | 700.21                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,137.84                  |                         |
| For Embossed Panel Door, Add   | 210.06                    |                         |
| For Baked Enamel Finish, Add   | 283.54                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -54.24                    |                         |
| For >100, Deduct   | -79.62                    |                         |
| For 2" Thick Door, Add   | 66.95                     |                         |
| For Polystyrene Core, Add  | 87.53                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 218.82                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 109.41                    |                         |
| For Steel Stiffened, Add   | 218.82                    |                         |
| 08 13 13 13-0075 EA 2'-4" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                  | 1,015.00                  | 69.87                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 350.10                    |                         |
| For Galvanized Steel Door, Add   | 175.05                    |                         |
| For Type 304 Stainless Steel Door, Add   | 700.21                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,137.84                  |                         |
| For Embossed Panel Door, Add   | 210.06                    |                         |
| For Baked Enamel Finish, Add   | 283.54                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -54.24                    |                         |
| For >100, Deduct   | -79.62                    |                         |
| For 2" Thick Door, Add   | 66.95                     |                         |
| For Polystyrene Core, Add  | 87.53                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 218.82                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 109.41                    |                         |
| For Steel Stiffened, Add   | 218.82                    |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 08 13 13 | 13-0076 | EA  | 2'-6" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 1,039.27               | 73.04                |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 357.27                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 178.63                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 714.54                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,161.12               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 214.36                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 289.87                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -55.62                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -81.60                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 68.41                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 89.32                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                   | 223.29                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                   | 111.65                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 223.29                 |                      |
| 08 13 13 | 13-0077 | EA  | 2'-8" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 1,052.60               | 73.04                |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 362.60                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 181.30                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 725.20                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,178.45               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 217.56                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 293.87                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -56.28                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -82.60                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 69.37                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 90.65                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                   | 226.63                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                   | 113.31                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 226.63                 |                      |
| 08 13 13 | 13-0078 | EA  | 2'-10" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 1,061.11               | 74.63                |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 364.74                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 182.37                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 729.48                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,185.41               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 218.84                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 295.94                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -56.79                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -83.31                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 69.84                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 91.19                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                   | 227.96                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                   | 113.98                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 227.96                 |                      |
| 08 13 13 | 13-0079 | EA  | 3' x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....     | 1,069.60               | 76.22                |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 366.86                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>   | 183.43                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>   | 733.73                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,192.31               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>   | 220.12                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>   | 298.01                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>  | -57.29                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>  | -84.03                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>   | 70.31                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>  | 91.72                  |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                   | 229.29                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                   | 114.65                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>   | 229.29                 |                      |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 13 13 13-0080 EA 3'-4" x 6'-8" x 1'-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....       | 1,138.92                  | 76.22                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 394.59                    |                         |
| For Galvanized Steel Door, Add   | 197.30                    |                         |
| For Type 304 Stainless Steel Door, Add   | 789.18                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,282.42                  |                         |
| For Embossed Panel Door, Add   | 236.76                    |                         |
| For Baked Enamel Finish, Add   | 318.81                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -60.76                    |                         |
| For >100, Deduct   | -89.23                    |                         |
| For 2" Thick Door, Add   | 75.33                     |                         |
| For Polystyrene Core, Add  | 98.65                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 246.62                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 123.31                    |                         |
| For Steel Stiffened, Add   | 246.62                    |                         |
| 08 13 13 13-0081 EA 3'-6" x 6'-8" x 1'-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....       | 1,171.93                  | 79.40                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 405.26                    |                         |
| For Galvanized Steel Door, Add   | 202.63                    |                         |
| For Type 304 Stainless Steel Door, Add   | 810.51                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,317.08                  |                         |
| For Embossed Panel Door, Add   | 243.15                    |                         |
| For Baked Enamel Finish, Add   | 327.76                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -62.57                    |                         |
| For >100, Deduct   | -91.86                    |                         |
| For 2" Thick Door, Add   | 77.42                     |                         |
| For Polystyrene Core, Add  | 101.31                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 253.29                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 126.64                    |                         |
| For Steel Stiffened, Add   | 253.29                    |                         |
| 08 13 13 13-0082 EA 4' x 6'-8" x 1'-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....          | 1,291.29                  | 85.75                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 447.92                    |                         |
| For Galvanized Steel Door, Add   | 223.96                    |                         |
| For Type 304 Stainless Steel Door, Add   | 895.83                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,455.73                  |                         |
| For Embossed Panel Door, Add   | 268.75                    |                         |
| For Baked Enamel Finish, Add   | 361.66                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -68.85                    |                         |
| For >100, Deduct   | -101.13                   |                         |
| For 2" Thick Door, Add   | 85.47                     |                         |
| For Polystyrene Core, Add  | 111.98                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 279.95                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 139.97                    |                         |
| For Steel Stiffened, Add   | 279.95                    |                         |
| <b>08 13 13 13-0083 7' High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow<br/>Metal Doors (08 13 13 13-0072)</b> |                           |                         |
| 08 13 13 13-0084 EA 2' x 7' x 1'-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....             | 1,035.78                  | 69.87                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 358.42                    |                         |
| For Galvanized Steel Door, Add   | 179.21                    |                         |
| For Type 304 Stainless Steel Door, Add   | 716.83                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,164.85                  |                         |
| For Embossed Panel Door, Add   | 215.05                    |                         |
| For Baked Enamel Finish, Add   | 289.77                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -55.28                    |                         |
| For >100, Deduct   | -81.18                    |                         |
| For 2" Thick Door, Add   | 68.46                     |                         |
| For Polystyrene Core, Add  | 89.60                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 224.01                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 112.01                    |                         |
| For Steel Stiffened, Add   | 224.01                    |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |   |          |       |
|------------------|----|--|---|----------|-------|
| 08 13 13 13-0085 | EA |  | 2'-4" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 1,035.78 | 69.87 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 358.42   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 179.21   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 716.83   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,164.85 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 215.05   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 289.77   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -55.28   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -81.18   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 68.46    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 89.60    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                 | 224.01   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                 | 112.01   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 224.01   |       |
| 08 13 13 13-0086 | EA |  | 2'-6" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 1,060.46 | 73.04 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 365.74   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 182.87   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 731.49   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,188.67 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 219.45   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 296.22   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -56.68   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -83.19   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 69.94    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 91.44    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                 | 228.59   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                 | 114.30   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 228.59   |       |
| 08 13 13 13-0087 | EA |  | 2'-8" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....  | 1,074.11 | 73.04 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 371.20   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 185.60   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 742.41   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,206.41 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 222.72   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 300.32   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -57.36   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -84.21   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 70.93    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 92.80    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                 | 232.00   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                 | 116.00   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 232.00   |       |
| 08 13 13 13-0088 | EA |  | 2'-10" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 1,082.73 | 74.63 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>  | 373.39   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>   | 186.69   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>   | 746.78   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>   | 1,213.51 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>   | 224.03   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>   | 302.43   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>   | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>   | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>   | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>   | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>  | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -57.87   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>  | -84.94   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>   | 71.41    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>  | 93.35    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                 | 233.37   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                 | 116.68   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>   | 233.37   |       |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 13 13 13-0089 EA 3' x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                        | 1,091.36                  | 76.22                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 375.57                    |                         |
| For Galvanized Steel Door, Add   | 187.78                    |                         |
| For Type 304 Stainless Steel Door, Add   | 751.14                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,220.60                  |                         |
| For Embossed Panel Door, Add   | 225.34                    |                         |
| For Baked Enamel Finish, Add   | 304.54                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -58.38                    |                         |
| For >100, Deduct   | -85.66                    |                         |
| For 2" Thick Door, Add   | 71.88                     |                         |
| For Polystyrene Core, Add  | 93.89                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 234.73                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 117.37                    |                         |
| For Steel Stiffened, Add   | 234.73                    |                         |
| 08 13 13 13-0090 EA 3'-4" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                     | 1,162.33                  | 76.22                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 403.96                    |                         |
| For Galvanized Steel Door, Add   | 201.98                    |                         |
| For Type 304 Stainless Steel Door, Add   | 807.91                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,312.86                  |                         |
| For Embossed Panel Door, Add   | 242.37                    |                         |
| For Baked Enamel Finish, Add   | 325.83                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -61.93                    |                         |
| For >100, Deduct   | -90.99                    |                         |
| For 2" Thick Door, Add   | 77.03                     |                         |
| For Polystyrene Core, Add  | 100.99                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 252.47                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 126.24                    |                         |
| For Steel Stiffened, Add   | 252.47                    |                         |
| 08 13 13 13-0091 EA 3'-6" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                     | 1,195.98                  | 79.40                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 414.88                    |                         |
| For Galvanized Steel Door, Add   | 207.44                    |                         |
| For Type 304 Stainless Steel Door, Add   | 829.75                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,348.35                  |                         |
| For Embossed Panel Door, Add   | 248.93                    |                         |
| For Baked Enamel Finish, Add   | 334.98                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -63.77                    |                         |
| For >100, Deduct   | -93.67                    |                         |
| For 2" Thick Door, Add   | 79.17                     |                         |
| For Polystyrene Core, Add  | 103.72                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 259.30                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 129.65                    |                         |
| For Steel Stiffened, Add   | 259.30                    |                         |
| 08 13 13 13-0092 EA 4' x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                        | 1,317.86                  | 85.75                   |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 458.54                    |                         |
| For Galvanized Steel Door, Add   | 229.27                    |                         |
| For Type 304 Stainless Steel Door, Add   | 917.09                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,490.27                  |                         |
| For Embossed Panel Door, Add   | 275.13                    |                         |
| For Baked Enamel Finish, Add   | 369.63                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -70.18                    |                         |
| For >100, Deduct   | -103.13                   |                         |
| For 2" Thick Door, Add   | 87.40                     |                         |
| For Polystyrene Core, Add  | 114.64                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 286.59                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 143.30                    |                         |
| For Steel Stiffened, Add   | 286.59                    |                         |
| 08 13 13 13-0093 7'-2" High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow<br>Metal Doors <small>(08 13 13 13-0072)</small> |                           |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |  |          |       |
|------------------|----|--|--|----------|-------|
| 08 13 13 13-0094 | EA |  | 2' x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....   | 1,056.55 | 69.87 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 366.72   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>  | 183.36   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>  | 733.45   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,191.85 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>  | 220.03   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>  | 296.00   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>   | -56.32   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>   | -82.73   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>  | 69.96    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>   | 91.68    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 229.20   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 114.60   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>  | 229.20   |       |
| 08 13 13 13-0095 | EA |  | 2'-4" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 1,056.55 | 69.87 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 366.72   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>  | 183.36   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>  | 733.45   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,191.85 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>  | 220.03   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>  | 296.00   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>   | -56.32   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>   | -82.73   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>  | 69.96    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>   | 91.68    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 229.20   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 114.60   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>  | 229.20   |       |
| 08 13 13 13-0096 | EA |  | 2'-6" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 1,081.66 | 73.04 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 374.22   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>  | 187.11   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>  | 748.45   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,216.23 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>  | 224.53   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>  | 302.58   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>   | -57.74   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>   | -84.78   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>  | 71.48    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>   | 93.56    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 233.89   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 116.95   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>  | 233.89   |       |
| 08 13 13 13-0097 | EA |  | 2'-8" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 1,095.62 | 73.04 |
|                  |    |  | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 379.81   |       |
|                  |    |  | <i>For Galvanized Steel Door, Add</i>  | 189.90   |       |
|                  |    |  | <i>For Type 304 Stainless Steel Door, Add</i>  | 759.62   |       |
|                  |    |  | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,234.38 |       |
|                  |    |  | <i>For Embossed Panel Door, Add</i>  | 227.88   |       |
|                  |    |  | <i>For Baked Enamel Finish, Add</i>  | 306.77   |       |
|                  |    |  | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63    |       |
|                  |    |  | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40    |       |
|                  |    |  | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27    |       |
|                  |    |  | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38    |       |
|                  |    |  | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50   |       |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>   | -58.43   |       |
|                  |    |  | <i>For &gt;100, Deduct</i>   | -85.82   |       |
|                  |    |  | <i>For 2" Thick Door, Add</i>  | 72.49    |       |
|                  |    |  | <i>For Polystyrene Core, Add</i>   | 94.95    |       |
|                  |    |  | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>                                  | 237.38   |       |
|                  |    |  | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>                                  | 118.69   |       |
|                  |    |  | <i>For Steel Stiffened, Add</i>  | 237.38   |       |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0098 EA 2'-10" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 1,104.38                  | 74.63                   |
| For 14 Gauge, Level 4 Maximum Duty, Add   | 382.05                    |                         |
| For Galvanized Steel Door, Add  | 191.02                    |                         |
| For Type 304 Stainless Steel Door, Add  | 764.10                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,241.66                  |                         |
| For Embossed Panel Door, Add  | 229.23                    |                         |
| For Baked Enamel Finish, Add  | 308.93                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -58.95                    |                         |
| For >100, Deduct  | -86.56                    |                         |
| For 2" Thick Door, Add  | 72.98                     |                         |
| For Polystyrene Core, Add   | 95.51                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 238.78                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 119.39                    |                         |
| For Steel Stiffened, Add  | 238.78                    |                         |
| 08 13 13 13-0099 EA 3' x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....     | 1,113.13                  | 76.22                   |
| For 14 Gauge, Level 4 Maximum Duty, Add   | 384.28                    |                         |
| For Galvanized Steel Door, Add  | 192.14                    |                         |
| For Type 304 Stainless Steel Door, Add  | 768.55                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,248.90                  |                         |
| For Embossed Panel Door, Add  | 230.57                    |                         |
| For Baked Enamel Finish, Add  | 311.07                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -59.47                    |                         |
| For >100, Deduct  | -87.30                    |                         |
| For 2" Thick Door, Add  | 73.46                     |                         |
| For Polystyrene Core, Add   | 96.07                     |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 240.17                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 120.09                    |                         |
| For Steel Stiffened, Add  | 240.17                    |                         |
| 08 13 13 13-0100 EA 3'-4" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 1,185.75                  | 76.22                   |
| For 14 Gauge, Level 4 Maximum Duty, Add   | 413.32                    |                         |
| For Galvanized Steel Door, Add  | 206.66                    |                         |
| For Type 304 Stainless Steel Door, Add  | 826.65                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,343.30                  |                         |
| For Embossed Panel Door, Add  | 247.99                    |                         |
| For Baked Enamel Finish, Add  | 332.86                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -63.10                    |                         |
| For >100, Deduct  | -92.74                    |                         |
| For 2" Thick Door, Add  | 78.73                     |                         |
| For Polystyrene Core, Add   | 103.33                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 258.33                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 129.16                    |                         |
| For Steel Stiffened, Add  | 258.33                    |                         |
| 08 13 13 13-0101 EA 3'-6" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door ..... | 1,220.02                  | 79.40                   |
| For 14 Gauge, Level 4 Maximum Duty, Add   | 424.49                    |                         |
| For Galvanized Steel Door, Add  | 212.25                    |                         |
| For Type 304 Stainless Steel Door, Add  | 848.98                    |                         |
| For Type 316 Stainless Steel Door, Add  | 1,379.60                  |                         |
| For Embossed Panel Door, Add  | 254.70                    |                         |
| For Baked Enamel Finish, Add  | 342.19                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -64.97                    |                         |
| For >100, Deduct  | -95.47                    |                         |
| For 2" Thick Door, Add  | 80.91                     |                         |
| For Polystyrene Core, Add   | 106.12                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 265.31                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 132.65                    |                         |
| For Steel Stiffened, Add  | 265.31                    |                         |



**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 08 13 13 | 13-0102 | EA  | 4' x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                         | 1,344.44               | 85.75                |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 469.18                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 234.59                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 938.35                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,524.82               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 281.51                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 377.61                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -71.51                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -105.12                |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 89.33                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 117.29                 |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>  | 293.24                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>  | 146.62                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 293.24                 |                      |
| 08 13 13 | 13-0103 |     | <b>8' High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Doors</b> <small>(08 13 13 13-0072)</small> |                        |                      |
| 08 13 13 | 13-0104 | EA  | 2' x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                            | 1,227.90               | 69.87                |
|          |         |     | <i>For Up To 1' Extra Height, Add</i>  | 301.09                 |                      |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 435.26                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 217.63                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 870.53                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,414.61               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 261.16                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 347.41                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -64.89                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -95.59                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 82.39                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 108.82                 |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>  | 272.04                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>  | 136.02                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 272.04                 |                      |
| 08 13 13 | 13-0105 | EA  | 2'-4" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                         | 1,227.90               | 69.87                |
|          |         |     | <i>For Up To 1' Extra Height, Add</i>  | 301.09                 |                      |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 435.26                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 217.63                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 870.53                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,414.61               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 261.16                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 347.41                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -64.89                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -95.59                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 82.39                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 108.82                 |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>  | 272.04                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>  | 136.02                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 272.04                 |                      |
| 08 13 13 | 13-0106 | EA  | 2'-6" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....                         | 1,256.51               | 73.04                |
|          |         |     | <i>For Up To 1' Extra Height, Add</i>  | 307.25                 |                      |
|          |         |     | <i>For 14 Gauge, Level 4 Maximum Duty, Add</i>   | 444.16                 |                      |
|          |         |     | <i>For Galvanized Steel Door, Add</i>  | 222.08                 |                      |
|          |         |     | <i>For Type 304 Stainless Steel Door, Add</i>  | 888.33                 |                      |
|          |         |     | <i>For Type 316 Stainless Steel Door, Add</i>  | 1,443.53               |                      |
|          |         |     | <i>For Embossed Panel Door, Add</i>  | 266.50                 |                      |
|          |         |     | <i>For Baked Enamel Finish, Add</i>  | 355.04                 |                      |
|          |         |     | <i>For 20 Minute Fire Rated Door, Add</i>  | 27.63                  |                      |
|          |         |     | <i>For 45 Minute Fire Rated Door, Add</i>  | 41.40                  |                      |
|          |         |     | <i>For 60 Minute Fire Rated Door, Add</i>  | 55.27                  |                      |
|          |         |     | <i>For 90 Minute Fire Rated Door, Add</i>  | 93.38                  |                      |
|          |         |     | <i>For 3 Hour Fire Rated Door, Add</i>   | 131.50                 |                      |
|          |         |     | <i>For &gt;50 To 100, Deduct</i>   | -66.48                 |                      |
|          |         |     | <i>For &gt;100, Deduct</i>   | -97.89                 |                      |
|          |         |     | <i>For 2" Thick Door, Add</i>  | 84.16                  |                      |
|          |         |     | <i>For Polystyrene Core, Add</i>   | 111.04                 |                      |
|          |         |     | <i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>  | 277.60                 |                      |
|          |         |     | <i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>  | 138.80                 |                      |
|          |         |     | <i>For Steel Stiffened, Add</i>  | 277.60                 |                      |



|                         |              |           |
|-------------------------|--------------|-----------|
| <b>Openings</b>         | <b>08</b>    | <b>08</b> |
| <b>Doors and Frames</b> | <b>08 10</b> |           |
| <b>Metal Doors</b>      | <b>08 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 13 13 13-0107 EA 2'-8" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 1,273.09                  | 73.04                   |
| For Up To 1' Extra Height, Add   | 311.84                    |                         |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 450.80                    |                         |
| For Galvanized Steel Door, Add   | 225.40                    |                         |
| For Type 304 Stainless Steel Door, Add   | 901.59                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,465.09                  |                         |
| For Embossed Panel Door, Add   | 270.48                    |                         |
| For Baked Enamel Finish, Add   | 360.01                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -67.31                    |                         |
| For >100, Deduct   | -99.13                    |                         |
| For 2" Thick Door, Add   | 85.36                     |                         |
| For Polystyrene Core, Add  | 112.70                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 281.75                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 140.87                    |                         |
| For Steel Stiffened, Add   | 281.75                    |                         |
| 08 13 13 13-0108 EA 2'-10" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... | 1,282.87                  | 74.63                   |
| For Up To 1' Extra Height, Add   | 313.67                    |                         |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 453.44                    |                         |
| For Galvanized Steel Door, Add   | 226.72                    |                         |
| For Type 304 Stainless Steel Door, Add   | 906.89                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,473.69                  |                         |
| For Embossed Panel Door, Add   | 272.07                    |                         |
| For Baked Enamel Finish, Add   | 362.47                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -67.88                    |                         |
| For >100, Deduct   | -99.95                    |                         |
| For 2" Thick Door, Add   | 85.92                     |                         |
| For Polystyrene Core, Add  | 113.36                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 283.40                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 141.70                    |                         |
| For Steel Stiffened, Add   | 283.40                    |                         |
| 08 13 13 13-0109 EA 3' x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....     | 1,292.68                  | 76.22                   |
| For Up To 1' Extra Height, Add   | 315.50                    |                         |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 456.10                    |                         |
| For Galvanized Steel Door, Add   | 228.05                    |                         |
| For Type 304 Stainless Steel Door, Add   | 912.19                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,482.31                  |                         |
| For Embossed Panel Door, Add   | 273.66                    |                         |
| For Baked Enamel Finish, Add   | 364.94                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -68.45                    |                         |
| For >100, Deduct   | -100.76                   |                         |
| For 2" Thick Door, Add   | 86.48                     |                         |
| For Polystyrene Core, Add  | 114.02                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 285.06                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 142.53                    |                         |
| For Steel Stiffened, Add   | 285.06                    |                         |
| 08 13 13 13-0110 EA 3'-4" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....  | 1,378.86                  | 76.22                   |
| For Up To 1' Extra Height, Add   | 339.35                    |                         |
| For 14 Gauge, Level 4 Maximum Duty, Add  | 490.57                    |                         |
| For Galvanized Steel Door, Add   | 245.28                    |                         |
| For Type 304 Stainless Steel Door, Add   | 981.14                    |                         |
| For Type 316 Stainless Steel Door, Add   | 1,594.35                  |                         |
| For Embossed Panel Door, Add   | 294.34                    |                         |
| For Baked Enamel Finish, Add   | 390.79                    |                         |
| For 20 Minute Fire Rated Door, Add   | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add   | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add   | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add   | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add  | 131.50                    |                         |
| For >50 To 100, Deduct   | -72.75                    |                         |
| For >100, Deduct   | -107.23                   |                         |
| For 2" Thick Door, Add   | 92.73                     |                         |
| For Polystyrene Core, Add  | 122.64                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add   | 306.61                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add   | 153.30                    |                         |
| For Steel Stiffened, Add   | 306.61                    |                         |

**08 Openings****08 10 Doors and Frames****08 13 Metal Doors**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 13 13 13-0111 EA 3'-6" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....    | 1,418.36                  | 79.40                   |
| For Up To 1' Extra Height, Add  | 348.52                    |                         |
| For 1' To 1'-6" Extra Height, Add   | 664.93                    |                         |
| For 14 Gauge, Level 4 Maximum Duty, Add   | 503.83                    |                         |
| For Galvanized Steel Door, Add  | 251.91                    |                         |
| For Type 304 Stainless Steel Door, Add  | 1,007.66                  |                         |
| For Type 316 Stainless Steel Door, Add  | 1,637.44                  |                         |
| For Embossed Panel Door, Add  | 302.30                    |                         |
| For Baked Enamel Finish, Add  | 401.69                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -74.89                    |                         |
| For >100, Deduct  | -110.35                   |                         |
| For 2" Thick Door, Add  | 95.29                     |                         |
| For Polystyrene Core, Add   | 125.96                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 314.89                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 157.45                    |                         |
| For Steel Stiffened, Add  | 314.89                    |                         |
| 08 13 13 13-0112 EA 4' x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door .....       | 1,563.65                  | 85.75                   |
| For Up To 1' Extra Height, Add  | 385.21                    |                         |
| For 1' To 1'-6" Extra Height, Add   | 734.92                    |                         |
| For 14 Gauge, Level 4 Maximum Duty, Add   | 556.86                    |                         |
| For Galvanized Steel Door, Add  | 278.43                    |                         |
| For Type 304 Stainless Steel Door, Add  | 1,113.72                  |                         |
| For Type 316 Stainless Steel Door, Add  | 1,809.80                  |                         |
| For Embossed Panel Door, Add  | 334.12                    |                         |
| For Baked Enamel Finish, Add  | 443.37                    |                         |
| For 20 Minute Fire Rated Door, Add  | 27.63                     |                         |
| For 45 Minute Fire Rated Door, Add  | 41.40                     |                         |
| For 60 Minute Fire Rated Door, Add  | 55.27                     |                         |
| For 90 Minute Fire Rated Door, Add  | 93.38                     |                         |
| For 3 Hour Fire Rated Door, Add   | 131.50                    |                         |
| For >50 To 100, Deduct  | -82.47                    |                         |
| For >100, Deduct  | -121.56                   |                         |
| For 2" Thick Door, Add  | 105.22                    |                         |
| For Polystyrene Core, Add   | 139.22                    |                         |
| For Mineral Core, 250 Degree Maximum Temperature Rise, Add  | 348.04                    |                         |
| For Continuously Welded And Filled Vertical Edge Seam, Add  | 174.02                    |                         |
| For Steel Stiffened, Add  | 348.04                    |                         |
| <b>08 13 13 53 Custom Hollow Metal Doors (08 13 13)</b>   |                           |                         |
| <b>08 13 13 53-0001 Steel 18 Gauge 1-3/4" Unrated Door (08 13 13 53)</b>  |                           |                         |
| 08 13 13 53-0002 EA 2'-2" Or 2'-4" x 6'-9" x 1-3/4", 18 Gauge, Unrated, With Semicircular Head, Hollow Metal Door ..... | 2,257.46                  | 158.79                  |
| For 16 Gauge Door, Add  | 20.30                     |                         |
| 08 13 13 53-0003 EA 2'-6" x 6'-9" x 1-3/4", 18 Gauge, Unrated, With Semicircular Head, Hollow Metal Door .....          | 2,364.66                  | 190.56                  |
| For 16 Gauge Door, Add  | 20.30                     |                         |
| <b>08 13 73 Sliding Metal Doors (08 13)</b>   |                           |                         |
| <b>08 13 73 00-0001 Sliding Bypass Mirror Doors (08 13 73)</b>  |                           |                         |
| Note: Includes 3.0 mm thick, steel frameless safety backed mirrors with anti-jump rollers and guides.                   |                           |                         |
| 08 13 73 00-0002 EA 4' x 6' 8", Sliding Bypass Mirror Doors .....   | 512.70                    | 95.28                   |
| 08 13 73 00-0003 EA 5' x 6' 8", Sliding Bypass Mirror Doors .....   | 581.43                    | 101.63                  |
| 08 13 73 00-0004 EA 6' x 6' 8", Sliding Bypass Mirror Doors .....   | 650.16                    | 107.98                  |
| 08 13 73 00-0005 EA 8' x 6' 8", Sliding Bypass Mirror Doors .....   | 774.92                    | 114.33                  |
| <b>08 30 Specialty Doors and Frames (08)</b>  |                           |                         |
| Note: Includes caulk, sealant and mounting anchors.   |                           |                         |
| <b>08 31 Access Doors and Panels (08 30)</b>  |                           |                         |
| See CSI section 07 72 33 00-0000 for roof hatches, 23 33 33 00-0000 for duct-mounted access doors.                      |                           |                         |
| <b>08 31 13 Access Doors and Frames (08 31)</b>   |                           |                         |
| <b>08 31 13 00-0001 Stainless Steel Access Doors (08 31 13)</b>   |                           |                         |
| <b>08 31 13 00-0002 Fire Rated Stainless Steel Access Doors (08 31 13 00-0001)</b>                                      |                           |                         |
| 08 31 13 00-0003 EA 12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch .....                               | 469.62                    | 75.02                   |
| 08 31 13 00-0004 EA 12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch .....                               | 544.12                    | 79.92                   |
| 08 31 13 00-0005 EA 18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch .....                               | 632.50                    | 84.53                   |
| 08 31 13 00-0006 EA 24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch .....                               | 727.28                    | 88.82                   |
| 08 31 13 00-0007 EA 24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch .....                               | 743.48                    | 89.28                   |
| 08 31 13 00-0008 EA 24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch .....                               | 960.88                    | 92.04                   |
| <b>08 31 13 00-0009 Stainless Steel Access Doors (08 31 13 00-0001)</b>   |                           |                         |
| 08 31 13 00-0010 EA 8" x 8" Stainless Steel Access Door With Cam Latch .....  | 201.67                    | 57.52                   |
| 08 31 13 00-0011 EA 12" x 12" Stainless Steel Access Door With Cam Latch .....  | 237.96                    | 75.02                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 31 13 00-0012 EA 12" x 18" Stainless Steel Access Door With Cam Latch .....  | 329.62                    | 79.92                   |
| 08 31 13 00-0013 EA 18" x 18" Stainless Steel Access Door With Cam Latch .....  | 353.38                    | 84.53                   |
| 08 31 13 00-0014 EA 24" x 18" Stainless Steel Access Door With Cam Latch .....  | 407.07                    | 88.82                   |
| 08 31 13 00-0015 EA 24" x 24" Stainless Steel Access Door With Cam Latch .....  | 459.84                    | 89.28                   |
| <b>08 31 13 00-0016 Steel Access Doors (08 31 13)</b>   |                           |                         |
| Note: Includes paintable powder coated finish.  |                           |                         |
| <b>08 31 13 00-0017 Insulated Fire Rated Steel Access Doors (08 31 13 00-0016)</b>  |                           |                         |
| 08 31 13 00-0018 EA 12" x 12" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 295.24                    | 75.47                   |
| 08 31 13 00-0019 EA 12" x 18" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 359.71                    | 79.92                   |
| 08 31 13 00-0020 EA 18" x 18" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 361.50                    | 84.53                   |
| 08 31 13 00-0021 EA 24" x 18" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 424.57                    | 89.28                   |
| 08 31 13 00-0022 EA 24" x 24" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 442.06                    | 89.28                   |
| 08 31 13 00-0023 EA 24" x 36" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 580.47                    | 92.04                   |
| 08 31 13 00-0024 EA 24" x 48" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 663.92                    | 95.88                   |
| 08 31 13 00-0025 EA 36" x 36" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 808.67                    | 95.88                   |
| 08 31 13 00-0026 EA 48" x 48" Insulated Fire Rated Steel Access Door With Cam Latch .....   | 1,033.50                  | 115.05                  |
| <b>08 31 13 00-0027 Steel Access Doors (08 31 13 00-0016)</b>   |                           |                         |
| 08 31 13 00-0028 EA 8" x 8" Steel Access Door With Cam Latch .....  | 165.09                    | 57.83                   |
| 08 31 13 00-0029 EA 12" x 12" Steel Access Door With Cam Latch .....  | 176.70                    | 75.47                   |
| 08 31 13 00-0030 EA 12" x 18" Steel Access Door With Cam Latch .....  | 200.40                    | 79.92                   |
| 08 31 13 00-0031 EA 18" x 18" Steel Access Door With Cam Latch .....  | 207.03                    | 84.53                   |
| 08 31 13 00-0032 EA 24" x 18" Steel Access Door With Cam Latch .....  | 240.96                    | 89.28                   |
| 08 31 13 00-0033 EA 24" x 24" Steel Access Door With Cam Latch .....  | 245.78                    | 89.28                   |
| 08 31 13 00-0034 EA 24" x 36" Steel Access Door With Cam Latch .....  | 317.18                    | 92.04                   |
| 08 31 13 00-0035 EA 36" x 36" Steel Access Door With Cam Latch .....  | 405.33                    | 95.88                   |
| <b>08 31 13 00-0036 Fiberglass Reinforced Polyester (FRP) Access Doors (08 31 13)</b>   |                           |                         |
| 08 31 13 00-0037 EA 8" x 8" Fiberglass Reinforced Polyester (FRP) Access Door With Lock .....   | 203.26                    | 57.52                   |
| 08 31 13 00-0038 EA 12" x 12" Fiberglass Reinforced Polyester (FRP) Access Door With Lock .....   | 223.93                    | 61.36                   |
| 08 31 13 00-0039 EA 12" x 18" Fiberglass Reinforced Polyester (FRP) Access Door With Lock .....   | 271.86                    | 65.19                   |
| 08 31 13 00-0040 EA 18" x 18" Fiberglass Reinforced Polyester (FRP) Access Door With Lock .....   | 319.55                    | 69.03                   |
| 08 31 13 00-0041 EA 24" x 18" Fiberglass Reinforced Polyester (FRP) Access Door With Lock .....   | 370.26                    | 72.56                   |
| 08 31 13 00-0042 EA 24" x 24" Fiberglass Reinforced Polyester (FRP) Access Door With Lock .....   | 394.97                    | 72.86                   |
| <b>08 31 13 00-0043 Steel Recessed Access Doors For Drywall Application (08 31 13)</b>  |                           |                         |
| Note: Includes paintable powder coated finish.  |                           |                         |
| 08 31 13 00-0044 EA 8" x 8" Recessed Steel Access Door With Cam Latch .....   | 222.88                    | 57.52                   |
| For Recessed Doors In Acoustical Tile, Add  | 29.85                     |                         |
| 08 31 13 00-0045 EA 12" x 12" Recessed Steel Access Door With Cam Latch .....   | 234.02                    | 61.66                   |
| For Recessed Doors In Acoustical Tile, Add  | 32.70                     |                         |
| 08 31 13 00-0046 EA 12" x 18" Recessed Steel Access Door With Cam Latch .....   | 250.98                    | 65.19                   |
| For Recessed Doors In Acoustical Tile, Add  | 34.10                     |                         |
| 08 31 13 00-0047 EA 18" x 18" Recessed Steel Access Door With Cam Latch .....   | 290.58                    | 69.03                   |
| For Recessed Doors In Acoustical Tile, Add  | 32.35                     |                         |
| 08 31 13 00-0048 EA 24" x 18" Recessed Steel Access Door With Cam Latch .....   | 305.87                    | 72.86                   |
| For Recessed Doors In Acoustical Tile, Add  | 34.29                     |                         |
| 08 31 13 00-0049 EA 24" x 24" Recessed Steel Access Door With Cam Latch .....   | 331.31                    | 72.86                   |
| For Recessed Doors In Acoustical Tile, Add  | 30.47                     |                         |
| 08 31 13 00-0050 EA 24" x 36" Recessed Steel Access Door With Cam Latch .....   | 413.35                    | 92.04                   |
| For Recessed Doors In Acoustical Tile, Add  | 39.25                     |                         |
| 08 31 13 00-0051 EA 36" x 36" Recessed Steel Access Door With Cam Latch .....   | 572.05                    | 95.88                   |
| For Recessed Doors In Acoustical Tile, Add  | 19.66                     |                         |
| <b>08 31 13 00-0052 Steel Crawl Space Doors And Frames (08 31 13)</b>   |                           |                         |
| Note: Includes paintable powder coated finish.  |                           |                         |
| 08 31 13 00-0053 EA 24" x 24" Steel Crawl Space Door With Cam Latch .....   | 259.81                    | 97.11                   |
| 08 31 13 00-0054 EA 30" x 24" Steel Crawl Space Door With Cam Latch .....   | 357.78                    | 117.66                  |
| 08 31 13 00-0055 EA 30" x 30" Steel Crawl Space Door With Cam Latch .....   | 399.44                    | 127.78                  |
| <b>08 33 Coiling Doors and Grilles (08 30)</b>  |                           |                         |
| <b>08 33 13 Coiling Counter Doors (08 33)</b>   |                           |                         |
| 08 33 13 00-0001 Overhead Rolling Counter Doors (08 33 13)  |                           |                         |
| 08 33 13 00-0002 Galvanized Steel Overhead Rolling Counter Doors (08 33 13 00-0001)   |                           |                         |
| Note: Includes necessary anchors, track and hardware. Includes galvanized steel primed with choice of baked-on polyester topcoat finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports. |                           |                         |
| 08 33 13 00-0003 EA 4' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....   | 6,797.21                  | 451.23                  |
| For Motor Operator (With Safety Reverse), Add   | 762.81                    |                         |
| 08 33 13 00-0004 EA 6' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....   | 7,140.79                  | 451.23                  |
| For Motor Operator (With Safety Reverse), Add   | 762.81                    |                         |

|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 33</b> | <b>Coiling Doors and Grilles</b>  |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 08 33 13 00-0005        | EA  |     | 8' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 7,713.05<br>768.50     | 479.43               |
| 08 33 13 00-0006        | EA  |     | 10' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 8,274.75<br>790.31     | 564.03               |
| 08 33 13 00-0007        | EA  |     | 4' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 8,343.33<br>762.81     | 451.23               |
| 08 33 13 00-0008        | EA  |     | 6' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 8,726.36<br>775.34     | 501.32               |
| 08 33 13 00-0009        | EA  |     | 8' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 8,948.28<br>780.35     | 521.39               |
| 08 33 13 00-0010        | EA  |     | 10' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 9,484.30<br>791.01     | 564.03               |
| <b>08 33 13 00-0011</b> |     |     | <b>Stainless Steel Overhead Rolling Counter Doors</b> <small>(08 33 13 00-0001)</small><br>Note: Includes necessary anchors, track and hardware. Includes No. 4 stainless steel finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.  |                        |                      |
| 08 33 13 00-0012        | EA  |     | 4' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 7,656.17<br>762.81     | 451.23               |
| 08 33 13 00-0013        | EA  |     | 6' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 8,601.02<br>762.81     | 451.23               |
| 08 33 13 00-0014        | EA  |     | 8' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 8,829.69<br>768.50     | 479.43               |
| 08 33 13 00-0015        | EA  |     | 10' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 10,765.73<br>790.31    | 564.03               |
| 08 33 13 00-0016        | EA  |     | 4' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 9,202.29<br>762.81     | 451.23               |
| 08 33 13 00-0017        | EA  |     | 6' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 9,499.43<br>775.34     | 501.32               |
| 08 33 13 00-0018        | EA  |     | 8' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 9,721.35<br>780.35     | 521.39               |
| 08 33 13 00-0019        | EA  |     | 10' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 12,404.77<br>791.01    | 564.03               |
| <b>08 33 13 00-0020</b> |     |     | <b>Aluminum Overhead Rolling Counter Doors</b> <small>(08 33 13 00-0001)</small><br>Note: Includes necessary anchors, track and hardware. Includes clear anodized aluminum finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.   |                        |                      |
| 08 33 13 00-0021        | EA  |     | 4' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 7,484.37<br>762.81     | 451.23               |
| 08 33 13 00-0022        | EA  |     | 6' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 7,827.96<br>762.81     | 451.23               |
| 08 33 13 00-0023        | EA  |     | 8' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 8,743.80<br>768.50     | 479.43               |
| 08 33 13 00-0024        | EA  |     | 10' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 10,336.25<br>790.31    | 564.03               |
| 08 33 13 00-0025        | EA  |     | 4' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 9,030.50<br>762.81     | 451.23               |
| 08 33 13 00-0026        | EA  |     | 6' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 9,413.53<br>775.34     | 501.32               |
| 08 33 13 00-0027        | EA  |     | 8' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 9,678.40<br>780.35     | 521.39               |
| 08 33 13 00-0028        | EA  |     | 10' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 12,232.98<br>791.01    | 564.03               |
| <b>08 33 13 00-0029</b> |     |     | <b>Galvanized Steel Overhead Rolling Counter Fire Doors</b> <small>(08 33 13 00-0001)</small><br>Note: Includes necessary anchors, track and hardware. Includes galvanized steel primed with choice of baked-on polyester top coat finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports. |                        |                      |
| 08 33 13 00-0030        | EA  |     | 4' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 8,858.71<br>762.81     | 451.23               |
| 08 33 13 00-0031        | EA  |     | 6' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 9,374.09<br>762.81     | 451.23               |
| 08 33 13 00-0032        | EA  |     | 8' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 10,118.13<br>768.50    | 479.43               |
| 08 33 13 00-0033        | EA  |     | 10' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 10,851.63<br>790.31    | 564.03               |
| 08 33 13 00-0034        | EA  |     | 4' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 9,889.46<br>762.81     | 451.23               |
| 08 33 13 00-0035        | EA  |     | 6' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 10,358.39<br>775.34    | 501.32               |
| 08 33 13 00-0036        | EA  |     | 8' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 10,752.10<br>780.35    | 521.39               |
| 08 33 13 00-0037        | EA  |     | 10' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 11,030.43<br>791.01    | 564.03               |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
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| <b>08 33 13 00-0038</b> | <b>Stainless Steel Overhead Rolling Counter Fire Doors</b> <small>(08 33 13 00-0001)</small>   |                     |        |
|                         | <small>Note: Includes necessary anchors, track and hardware. Includes No. 4 stainless steel finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.</small> |                     |        |
| 08 33 13 00-0039        | EA 4' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 10,061.25<br>762.81 | 451.23 |
| 08 33 13 00-0040        | EA 6' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 11,435.59<br>762.81 | 451.23 |
| 08 33 13 00-0041        | EA 8' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 11,664.26<br>768.50 | 479.43 |
| 08 33 13 00-0042        | EA 10' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 14,287.47<br>790.31 | 564.03 |
| 08 33 13 00-0043        | EA 4' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 10,920.21<br>762.81 | 451.23 |
| 08 33 13 00-0044        | EA 6' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 11,303.24<br>775.34 | 501.32 |
| 08 33 13 00-0045        | EA 8' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 11,696.96<br>780.35 | 521.39 |
| 08 33 13 00-0046        | EA 10' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 14,466.27<br>791.01 | 564.03 |

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| <b>08 33 13 00-0047</b> | <b>Integral Frame And Sill, Overhead Rolling Counter Doors</b> <small>(08 33 13)</small>  |                     |        |
| <b>08 33 13 00-0048</b> | <b>Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill</b> <small>(08 33 13 00-0047)</small>   |                     |        |
|                         | <small>Note: Includes necessary anchors, track and hardware. Stainless surfaces feature a standard No. 4 finish, aluminum slats are finished with clear anodized finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.</small> |                     |        |
| 08 33 13 00-0049        | EA 4' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 14,527.85<br>762.81 | 451.23 |
| 08 33 13 00-0050        | EA 6' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 14,871.43<br>762.81 | 451.23 |
| 08 33 13 00-0051        | EA 8' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 20,243.06<br>768.50 | 479.43 |
| 08 33 13 00-0052        | EA 10' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 15,833.60<br>790.31 | 564.03 |
| 08 33 13 00-0053        | EA 4' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 15,043.22<br>762.81 | 451.23 |
| 08 33 13 00-0054        | EA 6' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 15,512.15<br>775.34 | 501.32 |
| 08 33 13 00-0055        | EA 8' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 15,905.86<br>780.35 | 521.39 |
| 08 33 13 00-0056        | EA 10' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 17,730.32<br>791.01 | 564.03 |

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| <b>08 33 13 00-0057</b> | <b>Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Frame and Stainless Steel Sill</b> <small>(08 33 13 00-0047)</small>  |                     |        |
|                         | <small>Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Stainless surfaces feature a standard No. 4 finish, aluminum slats are finished with clear anodized finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.</small> |                     |        |
| 08 33 13 00-0058        | EA 4' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 12,809.93<br>762.81 | 451.23 |
| 08 33 13 00-0059        | EA 6' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 13,153.51<br>762.81 | 451.23 |
| 08 33 13 00-0060        | EA 8' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 13,553.97<br>768.50 | 479.43 |
| 08 33 13 00-0061        | EA 10' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 14,115.68<br>790.31 | 564.03 |
| 08 33 13 00-0062        | EA 4' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 14,356.05<br>762.81 | 451.23 |
| 08 33 13 00-0063        | EA 6' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 14,824.98<br>775.34 | 501.32 |
| 08 33 13 00-0064        | EA 8' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) .....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 15,390.48<br>780.35 | 521.39 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 33 13 00-0065 EA 10' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 15,840.61<br>791.01       | 564.03                  |
| <b>08 33 13 00-0066 Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill (08 33 13 00-0047)</b><br>Note: Includes necessary anchors, track and hardware. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.   |                           |                         |
| 08 33 13 00-0067 EA 4' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 20,025.19<br>762.81       | 451.23                  |
| 08 33 13 00-0068 EA 6' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 21,743.11<br>762.81       | 451.23                  |
| 08 33 13 00-0069 EA 8' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 25,235.83<br>768.50       | 479.43                  |
| 08 33 13 00-0070 EA 10' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 27,171.87<br>790.31       | 564.03                  |
| 08 33 13 00-0071 EA 4' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 22,602.07<br>762.81       | 451.23                  |
| 08 33 13 00-0072 EA 6' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 24,445.33<br>775.34       | 501.32                  |
| 08 33 13 00-0073 EA 8' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 27,072.34<br>780.35       | 521.39                  |
| 08 33 13 00-0074 EA 10' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 30,614.72<br>791.01       | 564.03                  |
| <b>08 33 13 00-0075 Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Frame and Stainless Steel Sill (08 33 13 00-0047)</b><br>Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports. |                           |                         |
| 08 33 13 00-0076 EA 4' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 16,932.93<br>762.81       | 451.23                  |
| 08 33 13 00-0077 EA 6' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 17,276.52<br>762.81       | 451.23                  |
| 08 33 13 00-0078 EA 8' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 18,020.57<br>768.50       | 479.43                  |
| 08 33 13 00-0079 EA 10' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 19,441.23<br>790.31       | 564.03                  |
| 08 33 13 00-0080 EA 4' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 17,963.69<br>762.81       | 451.23                  |
| 08 33 13 00-0081 EA 6' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 19,119.78<br>775.34       | 501.32                  |
| 08 33 13 00-0082 EA 8' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 20,200.66<br>780.35       | 521.39                  |
| 08 33 13 00-0083 EA 10' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....<br><i>For Motor Operator (With Safety Reverse), Add</i>   | 23,743.04<br>791.01       | 564.03                  |
| <b>08 33 13 00-0084 Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood (08 33 13 00-0047)</b><br>Note: Includes necessary anchors, track and hardware. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.  |                           |                         |
| 08 33 13 00-0085 EA 4' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 660).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 24,319.99<br>762.81       | 451.23                  |
| 08 33 13 00-0086 EA 6' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 660).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 25,178.95<br>762.81       | 451.23                  |
| 08 33 13 00-0087 EA 8' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 660).....<br><i>For Motor Operator (With Safety Reverse), Add</i>  | 28,671.67<br>768.50       | 479.43                  |



|                         | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|------------------|-----|-----|--|------------------------|----------------------|
| <b>08 33 13 00-0088</b> |                  |     |     | <b>Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood</b> <small>(08 33 13 00-0047)</small>  |                        |                      |
|                         |                  |     |     | Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.   |                        |                      |
|                         | 08 33 13 00-0089 | EA  |     | 4' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 661).....  | 18,307.27              | 451.23               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 762.81                 |                      |
|                         | 08 33 13 00-0090 | EA  |     | 6' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 661).....  | 25,178.95              | 451.23               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 762.81                 |                      |
|                         | 08 33 13 00-0091 | EA  |     | 8' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 661).....  | 28,671.67              | 479.43               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 768.50                 |                      |
| <b>08 33 13 00-0092</b> |                  |     |     | <b>Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood</b> <small>(08 33 13 00-0047)</small>   |                        |                      |
|                         |                  |     |     | Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports. |                        |                      |
|                         | 08 33 13 00-0093 | EA  |     | 4' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....   | 15,902.18              | 451.23               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 762.81                 |                      |
|                         | 08 33 13 00-0094 | EA  |     | 6' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....   | 17,963.69              | 451.23               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 762.81                 |                      |
|                         | 08 33 13 00-0095 | EA  |     | 8' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....   | 19,223.11              | 479.43               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 768.50                 |                      |
|                         | 08 33 13 00-0096 | EA  |     | 10' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....  | 21,159.15              | 564.03               |
|                         |                  |     |     | <i>For Motor Operator (With Safety Reverse), Add</i>   | 790.31                 |                      |
| <b>08 33 16</b>         |                  |     |     | <b>Coiling Counter Grilles</b> <small>(08 33)</small>  |                        |                      |
| <b>08 33 16 00-0001</b> |                  |     |     | <b>Galvanized Steel Overhead Coiling Counter Grilles (Width x Height)</b> <small>(08 33 16)</small>  |                        |                      |
|                         | 08 33 16 00-0002 | EA  |     | 4' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....   | 2,078.39               | 197.41               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 227.15                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 108.22                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 192.67                 |                      |
|                         | 08 33 16 00-0003 | EA  |     | 6' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....   | 2,272.06               | 197.41               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 256.20                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 148.92                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 261.37                 |                      |
|                         | 08 33 16 00-0004 | EA  |     | 8' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....   | 2,655.55               | 263.18               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 285.53                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 189.64                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 330.08                 |                      |
|                         | 08 33 16 00-0005 | EA  |     | 12' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....  | 3,121.64               | 263.18               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 355.44                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 271.05                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 467.50                 |                      |
|                         | 08 33 16 00-0006 | EA  |     | 16' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....  | 4,261.21               | 394.83               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 469.97                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 406.06                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 616.45                 |                      |
|                         | 08 33 16 00-0007 | EA  |     | 18' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....  | 4,830.25               | 451.23               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 527.24                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 406.06                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 616.45                 |                      |
|                         | 08 33 16 00-0008 | EA  |     | 20' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....  | 5,400.77               | 526.25               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 584.50                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 541.06                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 765.41                 |                      |
|                         | 08 33 16 00-0009 | EA  |     | 24' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....  | 6,719.47               | 631.72               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 736.75                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 649.28                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 791.48                 |                      |
|                         | 08 33 16 00-0010 | EA  |     | 30' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....  | 8,259.81               | 789.65               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 900.55                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 759.96                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 908.53                 |                      |
|                         | 08 33 16 00-0011 | EA  |     | 4' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....   | 2,226.23               | 197.41               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 249.33                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 162.31                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 223.84                 |                      |
|                         | 08 33 16 00-0012 | EA  |     | 6' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....   | 2,504.39               | 197.41               |
|                         |                  |     |     | <i>For Lexan Lattice Pattern, Add</i>  | 291.05                 |                      |
|                         |                  |     |     | <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>  | 243.45                 |                      |
|                         |                  |     |     | <i>For Staggered Brick Pattern, Add</i>  | 304.43                 |                      |



|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 33</b> | <b>Coiling Doors and Grilles</b>  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                  | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 08 33 16 00-0013 EA 8' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 2,856.48<br>315.66<br>324.57<br>385.02     | 263.29                  |
| 08 33 16 00-0014 EA 12' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 3,393.49<br>396.22<br>486.96<br>546.18     | 263.29                  |
| 08 33 16 00-0015 EA 16' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 4,642.52<br>527.17<br>649.28<br>751.89     | 394.83                  |
| 08 33 16 00-0016 EA 18' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 5,266.28<br>592.64<br>649.28<br>751.89     | 451.23                  |
| 08 33 16 00-0017 EA 20' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 5,887.53<br>658.12<br>811.60<br>957.60     | 526.25                  |
| 08 33 16 00-0018 EA 24' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 7,355.45<br>832.15<br>973.91<br>1,103.92   | 631.72                  |
| 08 33 16 00-0019 EA 30' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 8,893.23<br>995.56<br>1,133.90<br>1,237.56 | 789.65                  |

**08 33 23 Overhead Coiling Doors** (08 33)

Note: Excludes lifting equipment (forklift or scissor lift) where required. See CSI section 01 22 23 00-0964 for forklift.

**08 33 23 11 Overhead Coiling Doors** (08 33 23)

Note: Includes panels, guides, counterbalance mechanisms, hardware, and/or trim as required. Excludes lifting equipment (forklift or scissor lift) where required.

**08 33 23 11-0001 Galvanized Steel Overhead Coiling Doors (Width x Height)** (08 33 23 11)

Note: Includes necessary anchors, track, and hardware. Includes galvanized steel primed with choice of baked-on polyester top coat finish. 20 psf wind load. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.

**08 33 23 11-0002 26 Gauge Galvanized Steel Overhead Coiling Doors** (08 33 23 11-0001)

|  |          |        |
|--|----------|--------|
| 08 33 23 11-0003 EA 4' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,468.73 | 642.48 |
| 08 33 23 11-0004 EA 4' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,569.63 | 680.27 |
| 08 33 23 11-0005 EA 5' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,566.68 | 680.27 |
| 08 33 23 11-0006 EA 5' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,671.44 | 718.06 |
| 08 33 23 11-0007 EA 6' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,702.41 | 736.99 |
| 08 33 23 11-0008 EA 6' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,844.65 | 793.65 |
| 08 33 23 11-0009 EA 6' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,960.44 | 831.44 |
| 08 33 23 11-0010 EA 8' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,931.23 | 831.44 |
| 08 33 23 11-0011 EA 8' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 1,990.19 | 850.34 |
| 08 33 23 11-0012 EA 8' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....   | 2,058.54 | 869.23 |
| 08 33 23 11-0013 EA 8' x 10', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....  | 2,193.25 | 907.02 |
| 08 33 23 11-0014 EA 10' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....  | 2,054.47 | 869.23 |
| 08 33 23 11-0015 EA 10' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....  | 2,173.81 | 907.02 |
| 08 33 23 11-0016 EA 10' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....  | 2,307.73 | 944.82 |
| 08 33 23 11-0017 EA 10' x 10', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift..... | 2,413.45 | 982.61 |

**08 33 23 11-0018 24 Gauge Galvanized Steel Overhead Coiling Doors** (08 33 23 11-0001)

Note: With curtain hood (barrel cover).

|   |                      |          |
|---|----------------------|----------|
| 08 33 23 11-0019 EA 8' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 3,308.42<br>1,286.12 | 956.16   |
| 08 33 23 11-0020 EA 8' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 3,400.21<br>1,327.75 | 977.89   |
| 08 33 23 11-0021 EA 8' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,672.06<br>1,450.20 | 1,043.08 |
| 08 33 23 11-0022 EA 8' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,906.20<br>1,571.48 | 1,086.54 |
| 08 33 23 11-0023 EA 10' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,530.09<br>1,398.04 | 999.61   |
| 08 33 23 11-0024 EA 10' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,813.97<br>1,502.30 | 1,086.54 |
| 08 33 23 11-0025 EA 10' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 4,010.94<br>1,595.71 | 1,130.01 |
| 08 33 23 11-0026 EA 10' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 4,256.48<br>1,725.53 | 1,173.46 |
| 08 33 23 11-0027 EA 12' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,761.18<br>1,517.04 | 1,043.08 |
| 08 33 23 11-0028 EA 12' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,975.60<br>1,623.53 | 1,086.54 |
| 08 33 23 11-0029 EA 12' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 4,276.97<br>1,740.90 | 1,173.46 |



|                 | MINOR          | CSI   | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|---|-----|--|------------------------|----------------------|
|                 | 08 33 23       | 11-0030   | EA  | 12' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 4,584.23<br>1,924.10   | 1,211.26             |
|                 | 08 33 23       | 11-0031   | EA  | 14' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 4,711.27<br>1,924.90   | 1,286.85             |
|                 | 08 33 23       | 11-0032   | EA  | 14' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 5,127.84<br>2,142.84   | 1,362.43             |
|                 | 08 33 23       | 11-0033   | EA  | 14' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 5,560.48<br>2,372.84   | 1,438.01             |
| <b>08 33 23</b> | <b>11-0034</b> | <b>22 Gauge Galvanized Steel Overhead Coiling Doors</b> <small>(08 33 23 11-0001)</small> |     |  |                        |                      |
|                 |                |   |     | Note: With curtain hood (barrel cover).  |                        |                      |
|                 | 08 33 23       | 11-0035   | EA  | 4' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>   | 2,924.02<br>1,117.34   | 860.54               |
|                 | 08 33 23       | 11-0036   | EA  | 4' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,140.00<br>1,219.52   | 908.35               |
|                 | 08 33 23       | 11-0037   | EA  | 4' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,295.02<br>1,288.55   | 946.15               |
|                 | 08 33 23       | 11-0038   | EA  | 6' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>   | 3,345.49<br>1,254.11   | 1,003.97             |
|                 | 08 33 23       | 11-0039   | EA  | 6' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,670.45<br>1,378.32   | 1,099.59             |
|                 | 08 33 23       | 11-0040   | EA  | 6' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,868.94<br>1,479.94   | 1,137.38             |
|                 | 08 33 23       | 11-0041   | EA  | 6' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 4,322.78<br>1,773.08   | 1,175.17             |
|                 | 08 33 23       | 11-0042   | EA  | 6' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 4,814.41<br>2,070.95   | 1,231.86             |
|                 | 08 33 23       | 11-0043   | EA  | 8' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>   | 3,630.49<br>1,378.29   | 1,075.68             |
|                 | 08 33 23       | 11-0044   | EA  | 8' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 3,921.85<br>1,507.16   | 1,147.39             |
|                 | 08 33 23       | 11-0045   | EA  | 8' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 4,152.11<br>1,620.04   | 1,195.20             |
|                 | 08 33 23       | 11-0046   | EA  | 8' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 4,589.02<br>1,900.48   | 1,233.00             |
|                 | 08 33 23       | 11-0047   | EA  | 8' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i>  | 5,063.72<br>2,185.65   | 1,289.69             |
|                 | 08 33 23       | 11-0048   | EA  | 10' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 4,273.77<br>1,651.57   | 1,243.00             |
|                 | 08 33 23       | 11-0049   | EA  | 10' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 4,568.76<br>1,813.01   | 1,290.82             |
|                 | 08 33 23       | 11-0050   | EA  | 10' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 5,098.10<br>2,115.53   | 1,366.40             |
|                 | 08 33 23       | 11-0051   | EA  | 10' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 5,703.01<br>2,427.50   | 1,479.79             |
|                 | 08 33 23       | 11-0052   | EA  | 10' x 18', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 6,337.99<br>2,714.76   | 1,630.95             |
|                 | 08 33 23       | 11-0053   | EA  | 10' x 20', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 7,048.55<br>3,011.48   | 1,819.91             |
|                 | 08 33 23       | 11-0054   | EA  | 10' x 22', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 7,834.71<br>3,317.65   | 2,046.67             |
|                 | 08 33 23       | 11-0055   | EA  | 10' x 24', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 8,695.02<br>3,632.20   | 2,311.23             |
|                 | 08 33 23       | 11-0056   | EA  | 12' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 4,582.13<br>1,823.04   | 1,290.82             |
|                 | 08 33 23       | 11-0057   | EA  | 12' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 4,872.01<br>1,988.48   | 1,332.39             |
|                 | 08 33 23       | 11-0058   | EA  | 12' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 5,523.96<br>2,382.96   | 1,407.98             |
|                 | 08 33 23       | 11-0059   | EA  | 12' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 6,251.49<br>2,786.89   | 1,521.36             |
|                 | 08 33 23       | 11-0060   | EA  | 12' x 18', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 6,985.11<br>3,148.14   | 1,672.52             |
|                 | 08 33 23       | 11-0061   | EA  | 12' x 20', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 7,794.31<br>3,518.84   | 1,861.49             |
|                 | 08 33 23       | 11-0062   | EA  | 12' x 22', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 8,679.12<br>3,898.99   | 2,088.24             |
|                 | 08 33 23       | 11-0063   | EA  | 12' x 24', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 9,715.06<br>4,298.03   | 2,390.59             |
| <b>08 33 23</b> | <b>11-0064</b> | <b>20 Gauge Galvanized Steel Overhead Coiling Doors</b> <small>(08 33 23 11-0001)</small> |     |  |                        |                      |
|                 |                |   |     | Note: With curtain hood (barrel cover).  |                        |                      |
|                 | 08 33 23       | 11-0065   | EA  | 14' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 5,562.51<br>2,293.11   | 1,503.03             |
|                 | 08 33 23       | 11-0066   | EA  | 14' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 6,060.78<br>2,572.34   | 1,578.61             |
|                 | 08 33 23       | 11-0067   | EA  | 14' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 6,651.40<br>2,920.81   | 1,654.21             |
|                 | 08 33 23       | 11-0068   | EA  | 14' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 7,259.88<br>3,235.45   | 1,767.58             |
|                 | 08 33 23       | 11-0069   | EA  | 14' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift .....<br><i>For 3/4" Insulated Slats, Add</i> | 7,975.48<br>3,583.19   | 1,918.75             |

**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|----------|---------|-----|---|---------------------------|-------------------------|
| 08 33 23 | 11-0070 | EA  | 14' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 8,690.49<br>3,930.48      | 2,069.93                |
| 08 33 23 | 11-0071 | EA  | 14' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 10,104.73<br>4,754.95     | 2,258.89                |
| 08 33 23 | 11-0072 | EA  | 14' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 11,594.54<br>5,588.87     | 2,485.65                |
| 08 33 23 | 11-0073 | EA  | 16' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 6,654.12<br>2,829.98      | 1,728.48                |
| 08 33 23 | 11-0074 | EA  | 16' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 7,214.49<br>3,155.77      | 1,804.08                |
| 08 33 23 | 11-0075 | EA  | 16' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 7,718.68<br>3,439.44      | 1,879.66                |
| 08 33 23 | 11-0076 | EA  | 16' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 8,314.72<br>3,744.74      | 1,993.04                |
| 08 33 23 | 11-0077 | EA  | 16' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 9,033.15<br>4,094.60      | 2,144.20                |
| 08 33 23 | 11-0078 | EA  | 16' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 9,840.01<br>4,510.79      | 2,295.38                |
| 08 33 23 | 11-0079 | EA  | 16' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 11,038.36<br>5,173.35     | 2,484.34                |
| 08 33 23 | 11-0080 | EA  | 16' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 12,320.83<br>5,851.75     | 2,711.10                |
| 08 33 23 | 11-0081 | EA  | 18' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 7,236.91<br>2,996.95      | 1,944.56                |
| 08 33 23 | 11-0082 | EA  | 18' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 7,743.38<br>3,282.32      | 2,020.14                |
| 08 33 23 | 11-0083 | EA  | 18' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 8,547.31<br>3,743.54      | 2,133.52                |
| 08 33 23 | 11-0084 | EA  | 18' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 9,318.07<br>4,132.65      | 2,284.70                |
| 08 33 23 | 11-0085 | EA  | 18' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 10,168.80<br>4,534.49     | 2,473.65                |
| 08 33 23 | 11-0086 | EA  | 18' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 11,095.67<br>4,946.20     | 2,700.42                |
| 08 33 23 | 11-0087 | EA  | 18' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 12,603.60<br>5,746.46     | 2,964.96                |
| 08 33 23 | 11-0088 | EA  | 18' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 14,212.98<br>6,575.57     | 3,267.30                |
| 08 33 23 | 11-0089 | EA  | 20' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 8,280.06<br>3,414.71      | 2,236.24                |
| 08 33 23 | 11-0090 | EA  | 20' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 9,203.78<br>4,013.02      | 2,311.83                |
| 08 33 23 | 11-0091 | EA  | 20' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 10,483.36<br>4,444.83     | 2,734.18                |
| 08 33 23 | 11-0092 | EA  | 20' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 11,487.92<br>5,056.53     | 2,847.56                |
| 08 33 23 | 11-0093 | EA  | 20' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 12,704.58<br>5,780.06     | 2,998.73                |
| 08 33 23 | 11-0094 | EA  | 20' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 14,050.83<br>6,600.78     | 3,149.90                |
| 08 33 23 | 11-0095 | EA  | 20' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 15,478.76<br>7,435.52     | 3,338.87                |
| 08 33 23 | 11-0096 | EA  | 20' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 17,003.70<br>8,295.78     | 3,565.62                |
| 08 33 23 | 11-0097 | EA  | 22' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 9,177.35<br>3,573.98      | 2,647.26                |
| 08 33 23 | 11-0098 | EA  | 22' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 10,229.41<br>4,221.30     | 2,760.64                |
| 08 33 23 | 11-0099 | EA  | 22' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 11,696.44<br>5,012.81     | 3,007.59                |
| 08 33 23 | 11-0100 | EA  | 22' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 12,983.79<br>5,836.59     | 3,120.97                |
| 08 33 23 | 11-0101 | EA  | 22' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 14,350.79<br>6,672.88     | 3,272.14                |
| 08 33 23 | 11-0102 | EA  | 22' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 15,846.90<br>7,606.00     | 3,423.31                |
| 08 33 23 | 11-0103 | EA  | 22' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 17,422.86<br>8,551.76     | 3,612.27                |
| 08 33 23 | 11-0104 | EA  | 22' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 19,065.78<br>9,500.51     | 3,839.03                |
| 08 33 23 | 11-0105 | EA  | 24' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 10,111.82<br>3,943.86     | 2,911.97                |
| 08 33 23 | 11-0106 | EA  | 24' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 10,827.17<br>4,385.89     | 2,987.56                |
| 08 33 23 | 11-0107 | EA  | 24' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 12,323.65<br>5,413.76     | 3,063.15                |
| 08 33 23 | 11-0108 | EA  | 24' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 13,751.87<br>6,343.21     | 3,176.52                |
| 08 33 23 | 11-0109 | EA  | 24' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 15,202.81<br>7,242.45     | 3,327.69                |
| 08 33 23 | 11-0110 | EA  | 24' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 16,781.90<br>8,237.80     | 3,478.87                |
| 08 33 23 | 11-0111 | EA  | 24' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i> | 18,712.84<br>9,426.18     | 3,686.73                |



|                 | MINOR          | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|---------|-----|--|------------------------|----------------------|
|                 | 08 33 23       | 11-0112 | EA  | 24' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 20,687.00<br>10,646.98 | 3,894.59             |
| <b>08 33 23</b> | <b>11-0113</b> |         |     | <b>18 Gauge Galvanized Steel Overhead Coiling Doors</b> <small>(08 33 23 11-0001)</small><br>Note: With curtain hood (barrel cover). |                        |                      |
|                 | 08 33 23       | 11-0114 | EA  | 14' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 6,096.24<br>2,599.49   | 1,578.23             |
|                 | 08 33 23       | 11-0115 | EA  | 14' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 6,654.15<br>2,918.72   | 1,657.59             |
|                 | 08 33 23       | 11-0116 | EA  | 14' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 7,318.23<br>3,317.57   | 1,736.95             |
|                 | 08 33 23       | 11-0117 | EA  | 14' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 7,995.31<br>3,676.58   | 1,855.93             |
|                 | 08 33 23       | 11-0118 | EA  | 14' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 8,788.01<br>4,072.69   | 2,014.65             |
|                 | 08 33 23       | 11-0119 | EA  | 14' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 9,580.04<br>4,468.30   | 2,173.38             |
|                 | 08 33 23       | 11-0120 | EA  | 14' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 11,168.61<br>5,411.71  | 2,371.88             |
|                 | 08 33 23       | 11-0121 | EA  | 14' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 12,836.56<br>6,365.06  | 2,609.96             |
|                 | 08 33 23       | 11-0122 | EA  | 16' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 7,306.47<br>3,211.25   | 1,814.96             |
|                 | 08 33 23       | 11-0123 | EA  | 16' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 7,935.77<br>3,584.02   | 1,894.32             |
|                 | 08 33 23       | 11-0124 | EA  | 16' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 8,500.51<br>3,908.36   | 1,973.69             |
|                 | 08 33 23       | 11-0125 | EA  | 16' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 9,163.26<br>4,256.62   | 2,092.66             |
|                 | 08 33 23       | 11-0126 | EA  | 16' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 9,959.21<br>4,655.17   | 2,251.39             |
|                 | 08 33 23       | 11-0127 | EA  | 16' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 10,856.89<br>5,130.02  | 2,410.11             |
|                 | 08 33 23       | 11-0128 | EA  | 16' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 12,197.19<br>5,887.23  | 2,608.61             |
|                 | 08 33 23       | 11-0129 | EA  | 16' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 13,626.66<br>6,661.71  | 2,846.70             |
|                 | 08 33 23       | 11-0130 | EA  | 18' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 7,933.48<br>3,397.87   | 2,041.72             |
|                 | 08 33 23       | 11-0131 | EA  | 18' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 8,500.79<br>3,724.15   | 2,121.08             |
|                 | 08 33 23       | 11-0132 | EA  | 18' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 9,402.63<br>4,251.72   | 2,240.20             |
|                 | 08 33 23       | 11-0133 | EA  | 18' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 10,258.80<br>4,695.44  | 2,398.93             |
|                 | 08 33 23       | 11-0134 | EA  | 18' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 11,199.33<br>5,152.82  | 2,597.27             |
|                 | 08 33 23       | 11-0135 | EA  | 18' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 12,219.88<br>5,620.61  | 2,835.37             |
|                 | 08 33 23       | 11-0136 | EA  | 18' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 13,901.08<br>6,534.29  | 3,113.21             |
|                 | 08 33 23       | 11-0137 | EA  | 18' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 15,691.40<br>7,480.21  | 3,430.68             |
|                 | 08 33 23       | 11-0138 | EA  | 20' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 9,074.78<br>3,871.00   | 2,347.99             |
|                 | 08 33 23       | 11-0139 | EA  | 20' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 10,121.93<br>4,557.17  | 2,427.35             |
|                 | 08 33 23       | 11-0140 | EA  | 20' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 11,314.04<br>4,896.92  | 2,870.89             |
|                 | 08 33 23       | 11-0141 | EA  | 20' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 12,416.38<br>5,574.87  | 2,990.01             |
|                 | 08 33 23       | 11-0142 | EA  | 20' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 13,749.75<br>6,376.48  | 3,148.74             |
|                 | 08 33 23       | 11-0143 | EA  | 20' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 15,227.10<br>7,286.09  | 3,307.47             |
|                 | 08 33 23       | 11-0144 | EA  | 20' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 16,790.59<br>8,210.69  | 3,505.81             |
|                 | 08 33 23       | 11-0145 | EA  | 20' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 18,457.26<br>9,163.07  | 3,743.90             |
|                 | 08 33 23       | 11-0146 | EA  | 22' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 9,873.47<br>3,930.63   | 2,779.58             |
|                 | 08 33 23       | 11-0147 | EA  | 22' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 11,028.57<br>4,648.15  | 2,898.70             |
|                 | 08 33 23       | 11-0148 | EA  | 22' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 12,628.52<br>5,523.85  | 3,157.96             |
|                 | 08 33 23       | 11-0149 | EA  | 22' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 14,045.05<br>6,437.43  | 3,277.09             |
|                 | 08 33 23       | 11-0150 | EA  | 22' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 15,545.46<br>7,364.33  | 3,435.81             |
|                 | 08 33 23       | 11-0151 | EA  | 22' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 17,189.32<br>8,398.82  | 3,594.55             |
|                 | 08 33 23       | 11-0152 | EA  | 22' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift<br><i>For 3/4" Insulated Slats, Add</i>                       | 18,917.29<br>9,446.77  | 3,792.88             |

**08 Openings**  
**08 30 Specialty Doors and Frames**  
**08 33 Coiling Doors and Grilles**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 08 33 23 11-0153        | EA  |     | 22' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 20,715.06<br>10,497.48 | 4,030.98             |
| 08 33 23 11-0154        | EA  |     | 24' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 10,879.41<br>4,337.58  | 3,057.58             |
| 08 33 23 11-0155        | EA  |     | 24' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 11,664.99<br>4,827.56  | 3,136.95             |
| 08 33 23 11-0156        | EA  |     | 24' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 13,318.49<br>5,968.48  | 3,216.32             |
| 08 33 23 11-0157        | EA  |     | 24' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 14,891.56<br>6,999.47  | 3,335.28             |
| 08 33 23 11-0158        | EA  |     | 24' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 16,485.26<br>7,996.33  | 3,494.02             |
| 08 33 23 11-0159        | EA  |     | 24' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 18,221.30<br>9,099.96  | 3,652.74             |
| 08 33 23 11-0160        | EA  |     | 24' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 20,341.46<br>10,417.21 | 3,871.03             |
| 08 33 23 11-0161        | EA  |     | 24' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....<br><i>For 3/4" Insulated Slats, Add</i>   | 22,509.50<br>11,770.47 | 4,089.33             |
| <b>08 33 23 11-0162</b> |     |     | <b>Aluminum Overhead Coiling Doors (Width x Height)</b> <small>(08 33 23 11)</small><br>Note: Includes necessary anchors, track and hardware. Includes clear anodized aluminum finish. 20 psf wind load. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports. |                        |                      |
| <b>08 33 23 11-0163</b> |     |     | <b>0.04" Aluminum Overhead Coiling Doors</b> <small>(08 33 23 11-0162)</small>  |                        |                      |
| 08 33 23 11-0164        | EA  |     | 4' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 2,990.49               | 860.54               |
| 08 33 23 11-0165        | EA  |     | 4' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 3,210.63               | 908.35               |
| 08 33 23 11-0166        | EA  |     | 4' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 3,750.59               | 946.15               |
| 08 33 23 11-0167        | EA  |     | 6' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 3,653.39               | 1,003.97             |
| 08 33 23 11-0168        | EA  |     | 6' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 3,998.57               | 1,099.59             |
| 08 33 23 11-0169        | EA  |     | 6' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 4,228.18               | 1,137.38             |
| 08 33 23 11-0170        | EA  |     | 6' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 4,503.96               | 1,175.17             |
| 08 33 23 11-0171        | EA  |     | 6' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 4,820.88               | 1,231.86             |
| 08 33 23 11-0172        | EA  |     | 8' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 3,986.73               | 1,075.68             |
| 08 33 23 11-0173        | EA  |     | 8' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 4,338.59               | 1,147.39             |
| 08 33 23 11-0174        | EA  |     | 8' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 4,645.95               | 1,195.20             |
| 08 33 23 11-0175        | EA  |     | 8' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 4,921.95               | 1,233.00             |
| 08 33 23 11-0176        | EA  |     | 8' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....   | 5,236.84               | 1,289.69             |
| 08 33 23 11-0177        | EA  |     | 10' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 4,757.83               | 1,243.00             |
| 08 33 23 11-0178        | EA  |     | 10' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 5,060.37               | 1,290.82             |
| 08 33 23 11-0179        | EA  |     | 10' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 5,466.68               | 1,366.40             |
| 08 33 23 11-0180        | EA  |     | 10' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 5,949.99               | 1,479.79             |
| 08 33 23 11-0181        | EA  |     | 10' x 18', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 6,691.06               | 1,630.95             |
| 08 33 23 11-0182        | EA  |     | 10' x 20', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 7,507.60               | 1,819.91             |
| 08 33 23 11-0183        | EA  |     | 10' x 22', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 8,395.55               | 2,046.67             |
| 08 33 23 11-0184        | EA  |     | 10' x 24', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 9,360.29               | 2,311.23             |
| 08 33 23 11-0185        | EA  |     | 12' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 5,055.18               | 1,290.82             |
| 08 33 23 11-0186        | EA  |     | 12' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 5,637.98               | 1,332.39             |
| 08 33 23 11-0187        | EA  |     | 12' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 6,178.56               | 1,407.98             |
| 08 33 23 11-0188        | EA  |     | 12' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 6,797.07               | 1,521.36             |
| 08 33 23 11-0189        | EA  |     | 12' x 18', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 7,630.07               | 1,672.52             |
| 08 33 23 11-0190        | EA  |     | 12' x 20', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 8,540.66               | 1,861.49             |
| 08 33 23 11-0191        | EA  |     | 12' x 22', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 9,233.72               | 2,088.24             |
| 08 33 23 11-0192        | EA  |     | 12' x 24', 0.04" Aluminum Overhead Coiling Door, Chain Lift.....  | 10,080.62              | 2,390.59             |
| <b>08 33 23 11-0193</b> |     |     | <b>0.05" Aluminum Overhead Coiling Doors</b> <small>(08 33 23 11-0162)</small>  |                        |                      |
| 08 33 23 11-0194        | EA  |     | 14' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 5,786.28               | 1,503.03             |
| 08 33 23 11-0195        | EA  |     | 14' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 6,493.48               | 1,578.61             |
| 08 33 23 11-0196        | EA  |     | 14' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 7,187.57               | 1,654.21             |
| 08 33 23 11-0197        | EA  |     | 14' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 7,904.54               | 1,767.58             |
| 08 33 23 11-0198        | EA  |     | 14' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 8,739.92               | 1,918.75             |
| 08 33 23 11-0199        | EA  |     | 14' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 9,575.26               | 2,069.93             |
| 08 33 23 11-0200        | EA  |     | 14' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 10,497.72              | 2,258.89             |
| 08 33 23 11-0201        | EA  |     | 14' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 11,495.89              | 2,485.65             |
| 08 33 23 11-0202        | EA  |     | 16' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 6,738.99               | 1,728.48             |
| 08 33 23 11-0203        | EA  |     | 16' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 7,477.46               | 1,804.08             |
| 08 33 23 11-0204        | EA  |     | 16' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 8,186.30               | 1,879.66             |
| 08 33 23 11-0205        | EA  |     | 16' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 8,992.16               | 1,993.04             |
| 08 33 23 11-0206        | EA  |     | 16' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 9,932.82               | 2,144.20             |
| 08 33 23 11-0207        | EA  |     | 16' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 10,922.79              | 2,295.38             |
| 08 33 23 11-0208        | EA  |     | 16' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 11,948.87              | 2,484.34             |
| 08 33 23 11-0209        | EA  |     | 16' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 12,999.57              | 2,711.10             |
| 08 33 23 11-0210        | EA  |     | 18' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 7,534.75               | 1,944.56             |
| 08 33 23 11-0211        | EA  |     | 18' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 8,324.23               | 2,020.14             |
| 08 33 23 11-0212        | EA  |     | 18' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 9,263.95               | 2,133.52             |
| 08 33 23 11-0213        | EA  |     | 18' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 10,266.45              | 2,284.70             |
| 08 33 23 11-0214        | EA  |     | 18' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 11,355.07              | 2,473.65             |
| 08 33 23 11-0215        | EA  |     | 18' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 12,512.70              | 2,700.42             |
| 08 33 23 11-0216        | EA  |     | 18' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 13,744.28              | 2,964.96             |
| 08 33 23 11-0217        | EA  |     | 18' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....  | 15,057.99              | 3,267.30             |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 08 33 23 11-0218        | EA    |     |     | 20' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 8,611.65               | 2,236.24             |
| 08 33 23 11-0219        | EA    |     |     | 20' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 9,415.92               | 2,311.83             |
| 08 33 23 11-0220        | EA    |     |     | 20' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 10,733.38              | 2,425.20             |
| 08 33 23 11-0221        | EA    |     |     | 20' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 11,680.64              | 2,576.38             |
| 08 33 23 11-0222        | EA    |     |     | 20' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 12,858.08              | 2,765.34             |
| 08 33 23 11-0223        | EA    |     |     | 20' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 14,140.73              | 2,992.10             |
| 08 33 23 11-0224        | EA    |     |     | 20' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 15,446.29              | 3,256.64             |
| 08 33 23 11-0225        | EA    |     |     | 20' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 16,862.03              | 3,558.99             |
| 08 33 23 11-0226        | EA    |     |     | 22' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 10,168.93              | 2,647.26             |
| 08 33 23 11-0227        | EA    |     |     | 22' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 11,231.39              | 2,760.64             |
| 08 33 23 11-0228        | EA    |     |     | 22' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 12,679.60              | 3,007.59             |
| 08 33 23 11-0229        | EA    |     |     | 22' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 13,839.12              | 3,120.97             |
| 08 33 23 11-0230        | EA    |     |     | 22' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 15,072.61              | 3,272.14             |
| 08 33 23 11-0231        | EA    |     |     | 22' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 16,317.59              | 3,423.31             |
| 08 33 23 11-0232        | EA    |     |     | 22' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 17,575.65              | 3,612.27             |
| 08 33 23 11-0233        | EA    |     |     | 22' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 18,917.50              | 3,839.03             |
| 08 33 23 11-0234        | EA    |     |     | 24' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 11,206.80              | 2,911.97             |
| 08 33 23 11-0235        | EA    |     |     | 24' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 11,859.72              | 2,987.56             |
| 08 33 23 11-0236        | EA    |     |     | 24' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 13,396.12              | 3,063.15             |
| 08 33 23 11-0237        | EA    |     |     | 24' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 14,690.52              | 3,176.52             |
| 08 33 23 11-0238        | EA    |     |     | 24' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 15,993.09              | 3,327.69             |
| 08 33 23 11-0239        | EA    |     |     | 24' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 17,295.69              | 3,478.87             |
| 08 33 23 11-0240        | EA    |     |     | 24' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 18,844.91              | 3,667.83             |
| 08 33 23 11-0241        | EA    |     |     | 24' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift.....   | 20,519.12              | 3,894.59             |
| <b>08 33 23 11-0242</b> |       |     |     | <b>Overhead Coiling Door Accessories</b> <small>(08 33 23 11)</small>  |                        |                      |
| 08 33 23 11-0243        | LF    |     |     | Bottom Of Door, Weather Strip Seal For Coiling Doors, Astragal Only.....   | 5.41                   | 1.59                 |
| 08 33 23 11-0244        | LF    |     |     | Top Of Door (Lintel), Weather Strip Seal For Coiling Doors.....  | 34.25                  | 1.90                 |
| 08 33 23 11-0245        | LF    |     |     | Side Of Door (Guides), Weather Strip Seal For Coiling Doors.....   | 32.67                  | 1.90                 |
| 08 33 23 11-0246        | EA    |     |     | Cylinder Lock For Coiling Doors.....   | 279.32                 | 79.40                |
| 08 33 23 11-0247        | EA    |     |     | Up To 12' Height, 1/2 HP Motorized Jackshaft Operator For Coiling Doors And Grilles.....<br>Note: Includes three button inside station controls and mounting hardware.   | 1,862.19               | 254.07               |
| 08 33 23 11-0248        | EA    |     |     | Up To 12' Height, 3/4 HP Motorized Jackshaft Operator For Coiling Doors And Grilles.....<br>Note: Includes three button inside station controls and mounting hardware.   | 2,345.19               | 254.07               |
| 08 33 23 11-0249        | EA    |     |     | >12' To 18' Height, 1/2 HP Motorized Jackshaft Operator For Coiling Doors And Grilles.....<br>Note: Includes three button inside station controls and mounting hardware.   | 2,203.51               | 285.83               |
| 08 33 23 11-0250        | EA    |     |     | >12' To 18' Height, 3/4 HP Motorized Jackshaft Operator For Coiling Doors And Grilles.....<br>Note: Includes three button inside station controls and mounting hardware.   | 2,600.07               | 285.83               |
| 08 33 23 11-0251        | EA    |     |     | >18' To 24' Height, 3/4 HP Motorized Jackshaft Operator For Coiling Doors And Grilles.....<br>Note: Includes motor, supports, push button operator, stationary electronic eye, signal wiring from eye to motor and motor to operator.        | 2,834.64               | 317.58               |
| 08 33 23 11-0252        | EA    |     |     | >18' To 24' Height, 1 HP Motorized Jackshaft Operator For Coiling Doors And Grilles.....<br>Note: Includes motor, supports, push button operator, stationary electronic eye, signal wiring from eye to motor and motor to operator.          | 3,075.21               | 317.58               |
| 08 33 23 11-0253        | LF    |     |     | Safety Edge Bottom Bar Obstruction Detection Device, Electric For Coiling Doors And Grilles.....   | 106.07                 |                      |
| 08 33 23 11-0254        | EA    |     |     | Remote Transmitter Kit For Coiling Door Operators.....   | 378.02                 | 127.04               |
| <b>08 33 23 11-0255</b> |       |     |     | <b>Removal And Reinstallation Of Roll-Up Door And Support</b> <small>(08 33 23 11)</small>   |                        |                      |
| 08 33 23 11-0256        | SF    |     |     | Removal And Reinstallation Of Metal Roll-up Door And Supports.....<br>Note: Includes storage, cleaning and supply materials.   | 27.18                  |                      |
| <b>08 33 23 13</b>      |       |     |     | <b>Overhead Rapid Coiling Doors</b> <small>(08 33 23)</small>  |                        |                      |
|                         |       |     |     | Note: Includes panels, guides, counterbalance mechanisms, hardware, operators, frame, supports and/or trim as required. Excludes lifting equipment (forklift or scissor lift) where required. See CSI section 01 22 23 00-0964 for forklift. |                        |                      |
| <b>08 33 23 13-0001</b> |       |     |     | <b>32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®)</b> <small>(08 33 23 13)</small>  |                        |                      |
|                         |       |     |     | Note: Door panel is 32 ounce vinyl. Side frames are fully bolted together, anodized aluminum construction with weather seal. Bottom bar releases in either direction when impacted, without damage to door. Manual drive system.             |                        |                      |
| <b>08 33 23 13-0002</b> |       |     |     | <b>32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®)</b> <small>(08 33 23 13-0001)</small>   |                        |                      |
| <b>08 33 23 13-0003</b> |       |     |     | <b>5' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®)</b> <small>(08 33 23 13-0002)</small>  |                        |                      |
| 08 33 23 13-0004        | EA    |     |     | 5' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 5,252.66               | 464.95               |
| 08 33 23 13-0005        | EA    |     |     | 5' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 5,537.46               | 486.55               |
| 08 33 23 13-0006        | EA    |     |     | 5' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 5,820.38               | 508.14               |
| 08 33 23 13-0007        | EA    |     |     | 5' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 6,101.44               | 529.74               |
| 08 33 23 13-0008        | EA    |     |     | 5' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 6,386.23               | 551.33               |
| 08 33 23 13-0009        | EA    |     |     | 5' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....  | 6,669.17               | 572.93               |
| <b>08 33 23 13-0010</b> |       |     |     | <b>6' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®)</b> <small>(08 33 23 13-0002)</small>  |                        |                      |
| 08 33 23 13-0011        | EA    |     |     | 6' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 5,537.46               | 486.55               |
| 08 33 23 13-0012        | EA    |     |     | 6' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 5,820.38               | 508.14               |
| 08 33 23 13-0013        | EA    |     |     | 6' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....   | 6,101.44               | 529.74               |

**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 33 23 13-0014 EA 6' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,386.23                  | 551.33                  |
| 08 33 23 13-0015 EA 6' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,669.17                  | 572.93                  |
| 08 33 23 13-0016 EA 6' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 6,952.10                  | 594.52                  |
| <b>08 33 23 13-0017 7' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)</b>   |                           |                         |
| 08 33 23 13-0018 EA 7' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 5,820.38                  | 508.14                  |
| 08 33 23 13-0019 EA 7' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,101.44                  | 529.74                  |
| 08 33 23 13-0020 EA 7' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,386.23                  | 551.33                  |
| 08 33 23 13-0021 EA 7' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,669.17                  | 572.93                  |
| 08 33 23 13-0022 EA 7' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,952.10                  | 594.52                  |
| 08 33 23 13-0023 EA 7' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 7,236.90                  | 616.12                  |
| <b>08 33 23 13-0024 8' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)</b>   |                           |                         |
| 08 33 23 13-0025 EA 8' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,101.44                  | 529.74                  |
| 08 33 23 13-0026 EA 8' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,386.23                  | 551.33                  |
| 08 33 23 13-0027 EA 8' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,669.17                  | 572.93                  |
| 08 33 23 13-0028 EA 8' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,952.10                  | 594.52                  |
| 08 33 23 13-0029 EA 8' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 7,236.90                  | 616.12                  |
| 08 33 23 13-0030 EA 8' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 7,517.95                  | 637.72                  |
| <b>08 33 23 13-0031 9' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)</b>   |                           |                         |
| 08 33 23 13-0032 EA 9' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,386.23                  | 551.33                  |
| 08 33 23 13-0033 EA 9' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,669.17                  | 572.93                  |
| 08 33 23 13-0034 EA 9' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 6,952.10                  | 594.52                  |
| 08 33 23 13-0035 EA 9' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 7,236.90                  | 616.12                  |
| 08 33 23 13-0036 EA 9' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 7,517.95                  | 637.72                  |
| 08 33 23 13-0037 EA 9' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 7,802.75                  | 659.32                  |
| <b>08 33 23 13-0038 10' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)</b>  |                           |                         |
| 08 33 23 13-0039 EA 10' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 6,669.17                  | 572.93                  |
| 08 33 23 13-0040 EA 10' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 6,952.10                  | 594.52                  |
| 08 33 23 13-0041 EA 10' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 7,236.90                  | 616.12                  |
| 08 33 23 13-0042 EA 10' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 7,517.95                  | 637.72                  |
| 08 33 23 13-0043 EA 10' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....  | 7,802.75                  | 659.32                  |
| 08 33 23 13-0044 EA 10' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®) .....   | 8,085.68                  | 680.92                  |
| <b>08 33 23 13-0045 Rytec® Bantam® Door Options (08 33 23 13-0001)</b>  |                           |                         |
| 08 33 23 13-0046 SF Upgrade To 2-Ply Rilon Panel Material For Rytec® Bantam® High-Speed Rolling Doors .....   | 11.71                     |                         |
| 08 33 23 13-0047 SF Upgrade To 3-Ply Rilon Panel Material For Rytec® Bantam® High-Speed Rolling Doors .....   | 25.75                     |                         |
| 08 33 23 13-0048 LF 31" High Full Vision Panel For Rytec® Bantam® High-Speed Rolling Doors .....  | 37.46                     |                         |
| Note: Multiply linear foot price x width of door.   |                           |                         |
| 08 33 23 13-0049 EA Two 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Bantam® High-Speed Rolling Doors .....  | 355.86                    |                         |
| 08 33 23 13-0050 EA Roll Cover For Rytec® Bantam® High-Speed Rolling Doors .....  | 688.92                    | 63.51                   |
| 08 33 23 13-0051 EA Motor Cover For Rytec® Bantam® High-Speed Rolling Doors .....   | 688.92                    | 63.51                   |
| 08 33 23 13-0052 EA Motor Operator For Rytec® Bantam® High-Speed Rolling Doors .....  | 2,923.01                  | 127.04                  |
| Note: Includes open/close/stop pushbutton, pneumatic reversing edge and coil cord.  |                           |                         |
| 08 33 23 13-0053 EA Additional NEMA 4 Pushbutton Control For Rytec® Bantam® Motor Operator .....  | 370.52                    | 63.51                   |
| Note: Includes open/close/stop control.   |                           |                         |
| 08 33 23 13-0054 EA Auto Close Feature For Rytec® Bantam® Motor Operator .....  | 361.16                    | 63.51                   |
| <b>08 33 23 13-0055 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0055)</b>   |                           |                         |
| Note: Rytec® PredaDoor® PD5500. Door panel is 2-ply multi-filament Rilon. Includes full width vision panel. Side frames are fully bolted together, anodized aluminum construction with weather seal. Bottom bar releases in either direction when impacted, without damage to door. Drive system is a 3 phase, variable-speed AC Drive with brake and absolute encoder. Opens at 50" per second and closes at 21" per second. |                           |                         |
| <b>08 33 23 13-0056 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0055)</b>   |                           |                         |
| <b>08 33 23 13-0057 6' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b>  |                           |                         |
| 08 33 23 13-0058 EA 6' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....  | 16,076.12                 | 508.14                  |
| 08 33 23 13-0059 EA 6' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....  | 16,337.82                 | 529.74                  |
| 08 33 23 13-0060 EA 6' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....  | 16,639.40                 | 551.33                  |
| 08 33 23 13-0061 EA 6' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....  | 17,058.93                 | 572.93                  |
| 08 33 23 13-0062 EA 6' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....   | 17,487.11                 | 594.52                  |
| 08 33 23 13-0063 EA 6' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....   | 18,206.64                 | 616.12                  |
| 08 33 23 13-0064 EA 6' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®) .....   | 18,718.06                 | 637.72                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| <b>08 33 23 13-0065</b>  | <b>7' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b>  |                         |
| 08 33 23 13-0066 EA 7' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 16,395.05  | 529.74                  |
| 08 33 23 13-0067 EA 7' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 16,727.85  | 551.33                  |
| 08 33 23 13-0068 EA 7' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 17,145.64  | 572.93                  |
| 08 33 23 13-0069 EA 7' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 17,587.69  | 594.52                  |
| 08 33 23 13-0070 EA 7' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,170.22  | 616.12                  |
| 08 33 23 13-0071 EA 7' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,872.41  | 637.72                  |
| 08 33 23 13-0072 EA 7' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 19,427.19  | 659.32                  |
| <b>08 33 23 13-0073</b>  | <b>8' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b>  |                         |
| 08 33 23 13-0074 EA 8' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 16,783.34  | 551.33                  |
| 08 33 23 13-0075 EA 8' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 17,199.40  | 572.93                  |
| 08 33 23 13-0076 EA 8' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 17,658.80  | 594.52                  |
| 08 33 23 13-0077 EA 8' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 18,258.66  | 616.12                  |
| 08 33 23 13-0078 EA 8' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,799.57  | 637.72                  |
| 08 33 23 13-0079 EA 8' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 19,564.19  | 659.32                  |
| 08 33 23 13-0080 EA 8' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 20,191.81  | 680.92                  |
| <b>08 33 23 13-0081</b>  | <b>9' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b>  |                         |
| 08 33 23 13-0082 EA 9' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 17,256.63  | 572.93                  |
| 08 33 23 13-0083 EA 9' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 17,712.56  | 594.52                  |
| 08 33 23 13-0084 EA 9' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 18,312.43  | 616.12                  |
| 08 33 23 13-0085 EA 9' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                   | 18,870.67  | 637.72                  |
| 08 33 23 13-0086 EA 9' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 19,456.67  | 659.32                  |
| 08 33 23 13-0087 EA 9' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 20,065.21  | 680.92                  |
| 08 33 23 13-0088 EA 9' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 20,732.72  | 702.51                  |
| <b>08 33 23 13-0089</b>  | <b>10' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b> |                         |
| 08 33 23 13-0090 EA 10' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 17,757.64  | 594.52                  |
| 08 33 23 13-0091 EA 10' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,369.65  | 616.12                  |
| 08 33 23 13-0092 EA 10' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,922.70  | 637.72                  |
| 08 33 23 13-0093 EA 10' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 19,513.90  | 659.32                  |
| 08 33 23 13-0094 EA 10' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 20,169.26  | 680.92                  |
| 08 33 23 13-0095 EA 10' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 20,302.64  | 702.51                  |
| 08 33 23 13-0096 EA 10' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 21,415.83  | 724.11                  |
| <b>08 33 23 13-0097</b>  | <b>11' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b> |                         |
| 08 33 23 13-0098 EA 11' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,402.60  | 616.12                  |
| 08 33 23 13-0099 EA 11' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,969.52  | 637.72                  |
| 08 33 23 13-0100 EA 11' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 19,567.66  | 659.32                  |
| 08 33 23 13-0101 EA 11' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 20,224.76  | 680.92                  |
| 08 33 23 13-0102 EA 11' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 20,656.42  | 702.51                  |
| 08 33 23 13-0103 EA 11' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 21,509.48  | 724.11                  |
| 08 33 23 13-0104 EA 11' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 22,208.20  | 745.70                  |
| <b>08 33 23 13-0105</b>  | <b>12' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)</b> |                         |
| 08 33 23 13-0106 EA 12' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 18,985.13  | 637.72                  |
| 08 33 23 13-0107 EA 12' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 19,598.87  | 659.32                  |
| 08 33 23 13-0108 EA 12' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 20,268.11  | 680.92                  |
| 08 33 23 13-0109 EA 12' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                  | 20,715.38  | 702.51                  |
| 08 33 23 13-0110 EA 12' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 21,303.11  | 724.11                  |
| 08 33 23 13-0111 EA 12' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 22,287.97  | 745.70                  |
| 08 33 23 13-0112 EA 12' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)                 | 22,972.82  | 767.30                  |
| <b>08 33 23 13-0113</b>  | <b>Rytec® PredaDoor® Door Options (08 33 23 13-0055)</b>   |                         |
| 08 33 23 13-0114 EA Up To 10' Wide Doors, Roll And Motor Hood For Rytec® PredaDoor® High-Speed Rolling Doors   | 817.69   | 127.04                  |
| 08 33 23 13-0115 EA >10' To 15' Wide Doors, Roll And Motor Hood For Rytec® PredaDoor® High-Speed Rolling Doors | 1,190.54   | 127.04                  |
| 08 33 23 13-0116 SF Upgrade To 3-Ply Rilon Panel Material For Rytec® PredaDoor® High-Speed Rolling Doors       | 14.05  |                         |



|           |              |                                   |
|-----------|--------------|-----------------------------------|
| <b>08</b> | <b>08</b>    | <b>Openings</b>                   |
|           | <b>08 30</b> | <b>Specialty Doors and Frames</b> |
|           | <b>08 33</b> | <b>Coiling Doors and Grilles</b>  |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |   |          |
|------------------|---|---|----------|
| 08 33 23 13-0117 | 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13)</small><br>Note: Rytec® Fast-Seal® FS1000. Door panel is heavy-duty 3-ply multi-filament Rilon. Independent opening and closing speeds up to 50" per second. Side frames are fully bolted together, reinforced with front and rear wind bar guides and full height vinyl weather seal on either side of the door panel. Counterbalance system consists of guided counterweights custom-sized to provide to provide proper balancing of each door system. The independent tension system maintains constant panel tensioning. The drive system is a 3 phase, variable speed AC drive motor with brake and absolute encoder. Bottom bar breaks away in either direction without damage to the bar, safety astragal, or side covers. |   |          |
| 08 33 23 13-0118 | 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0117)</small>  |   |          |
| 08 33 23 13-0119 | 8' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>   |   |          |
| 08 33 23 13-0120 | EA 8' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 24,411.62<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,143.32 |
| 08 33 23 13-0121 | EA 8' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 25,518.66<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,175.72 |
| 08 33 23 13-0122 | EA 8' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 26,483.51<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,208.11 |
| 08 33 23 13-0123 | EA 8' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 27,521.18<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,240.51 |
| 08 33 23 13-0124 | EA 8' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 28,697.60<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,272.90 |
| 08 33 23 13-0125 | EA 8' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 29,315.59<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,305.29 |
| 08 33 23 13-0126 | EA 8' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 30,280.44<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,337.69 |
| 08 33 23 13-0127 | EA 8' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 31,140.59<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,372.47 |
| 08 33 23 13-0128 | EA 8' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 32,509.90<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,408.16 |
| 08 33 23 13-0129 | EA 8' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 33,616.98<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,444.77 |
| 08 33 23 13-0130 | EA 8' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add   | 34,988.19<br>675.00<br>1,100.00<br>2,750.00<br>2,200.00<br>3,300.00 | 1,482.32 |
| 08 33 23 13-0131 | 9' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>   |   |          |



|  | MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|--|----------|---------|-----|--|---|----------------------|
|  | 08 33 23 | 13-0132 | EA  | 9' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 25,518.66<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,175.72             |
|  | 08 33 23 | 13-0133 | EA  | 9' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 26,483.51<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,208.11             |
|  | 08 33 23 | 13-0134 | EA  | 9' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 27,521.18<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,240.51             |
|  | 08 33 23 | 13-0135 | EA  | 9' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 28,697.60<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,272.90             |
|  | 08 33 23 | 13-0136 | EA  | 9' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 29,315.59<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,305.29             |
|  | 08 33 23 | 13-0137 | EA  | 9' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 30,280.44<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,337.69             |
|  | 08 33 23 | 13-0138 | EA  | 9' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 31,524.48<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,370.08             |
|  | 08 33 23 | 13-0139 | EA  | 9' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 32,509.90<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,408.16             |
|  | 08 33 23 | 13-0140 | EA  | 9' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 33,616.98<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,444.77             |
|  | 08 33 23 | 13-0141 | EA  | 9' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 34,988.19<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,482.32             |
|  | 08 33 23 | 13-0142 | EA  | 9' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 36,621.69<br>675.00<br>1,100.00<br>2,750.00<br>2,750.00<br>4,125.00 | 1,520.87             |
|  | 08 33 23 | 13-0143 |     | <b>10' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> <small>(08 33 23 13-0118)</small>  |   |                      |
|  | 08 33 23 | 13-0144 | EA  | 10' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 26,483.51<br>675.00<br>1,100.00<br>2,750.00<br>3,300.00<br>4,950.00 | 1,208.11             |
|  | 08 33 23 | 13-0145 | EA  | 10' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 27,521.18<br>675.00<br>1,100.00<br>2,750.00<br>3,300.00<br>4,950.00 | 1,240.51             |

|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 33</b> | <b>Coiling Doors and Grilles</b>  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 33 23 13-0146 EA 10' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 28,697.60                 | 1,272.90                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0147 EA 10' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 29,315.59                 | 1,305.29                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0148 EA 10' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 30,280.44                 | 1,337.69                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0149 EA 10' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 31,524.48                 | 1,370.08                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0150 EA 10' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 32,699.16                 | 1,402.48                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0151 EA 10' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 33,615.58                 | 1,444.06                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0152 EA 10' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 34,986.74                 | 1,481.61                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0153 EA 10' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 36,620.21                 | 1,520.12                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| 08 33 23 13-0154 EA 10' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 37,997.19                 | 1,559.65                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,300.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 4,950.00                  |                         |
| <b>08 33 23 13-0155 11' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> <small>(08 33 23 13-0118)</small> |                           |                         |
| 08 33 23 13-0156 EA 11' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                   | 27,521.18                 | 1,240.51                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,850.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 5,775.00                  |                         |
| 08 33 23 13-0157 EA 11' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                   | 28,697.60                 | 1,272.90                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,850.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 5,775.00                  |                         |
| 08 33 23 13-0158 EA 11' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 29,315.59                 | 1,305.29                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,850.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 5,775.00                  |                         |
| 08 33 23 13-0159 EA 11' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 30,280.44                 | 1,337.69                |
| For NEMA 4X Control Box, Add   | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add  | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add  | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add  | 3,850.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add  | 5,775.00                  |                         |



|          | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|----------|---------|-----|-----|---|---|----------------------|
| 08 33 23 | 13-0160 | EA  |     | 11' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 31,524.48<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,370.08             |
| 08 33 23 | 13-0161 | EA  |     | 11' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 32,699.16<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,402.48             |
| 08 33 23 | 13-0162 | EA  |     | 11' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 34,012.58<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,434.87             |
| 08 33 23 | 13-0163 | EA  |     | 11' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 34,983.27<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,479.87             |
| 08 33 23 | 13-0164 | EA  |     | 11' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 36,616.65<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,518.35             |
| 08 33 23 | 13-0165 | EA  |     | 11' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 37,993.54<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,557.82             |
| 08 33 23 | 13-0166 | EA  |     | 11' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 39,629.10<br>675.00<br>1,100.00<br>2,750.00<br>3,850.00<br>5,775.00 | 1,598.33             |

**08 33 23 13-0167 12' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)** (08 33 23 13-0118)

|          |         |    |  |   |   |          |
|----------|---------|----|--|---|---|----------|
| 08 33 23 | 13-0168 | EA |  | 12' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 28,697.60<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,272.90 |
| 08 33 23 | 13-0169 | EA |  | 12' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 29,315.59<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,305.29 |
| 08 33 23 | 13-0170 | EA |  | 12' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 30,280.44<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,337.69 |
| 08 33 23 | 13-0171 | EA |  | 12' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 31,524.48<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,370.08 |
| 08 33 23 | 13-0172 | EA |  | 12' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 32,699.16<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,402.48 |
| 08 33 23 | 13-0173 | EA |  | 12' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 34,012.58<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,434.87 |

**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR  | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|--|---------|-----|--|---|----------------------|
| 08 33 23   | 13-0174 | EA  | 12' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 34,956.61<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,467.26             |
| 08 33 23   | 13-0175 | EA  | 12' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 36,611.32<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,515.69             |
| 08 33 23   | 13-0176 | EA  | 12' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 37,988.07<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,555.10             |
| 08 33 23   | 13-0177 | EA  | 12' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 39,623.49<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,595.52             |
| 08 33 23   | 13-0178 | EA  | 12' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 41,260.99<br>675.00<br>1,100.00<br>2,750.00<br>4,400.00<br>6,600.00 | 1,637.01             |
| <b>08 33 23 13-0179 13' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small></b> |         |     |  |   |                      |
| 08 33 23   | 13-0180 | EA  | 13' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i>  | 30,030.08<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,305.29             |
| 08 33 23   | 13-0181 | EA  | 13' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i>  | 31,263.73<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,337.69             |
| 08 33 23   | 13-0182 | EA  | 13' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 32,433.20<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,370.08             |
| 08 33 23   | 13-0183 | EA  | 13' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 33,791.71<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,402.48             |
| 08 33 23   | 13-0184 | EA  | 13' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 35,145.01<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,434.87             |
| 08 33 23   | 13-0185 | EA  | 13' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 36,149.74<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,467.26             |
| 08 33 23   | 13-0186 | EA  | 13' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 36,913.41<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,499.66             |
| 08 33 23   | 13-0187 | EA  | 13' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 38,087.86<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,551.60             |



|          | MINOR   | CSI  | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |  |
|----------|---------|--|-----|---|---|----------------------|--|
| 08 33 23 | 13-0188 | EA   |     | 13' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 39,724.97<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,591.95             |  |
| 08 33 23 | 13-0189 | EA   |     | 13' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 41,369.78<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,633.34             |  |
| 08 33 23 | 13-0190 | EA   |     | 13' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 42,818.22<br>675.00<br>1,100.00<br>2,750.00<br>4,950.00<br>6,975.00 | 1,675.81             |  |
| <br>     |         |  |     |   |   |                      |  |
| 08 33 23 | 13-0191 | <b>14' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> (08 33 23 13-0118) |     |   |   |                      |  |
| 08 33 23 | 13-0192 | EA   |     | 14' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 31,263.73<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,337.69             |  |
| 08 33 23 | 13-0193 | EA   |     | 14' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add  | 32,433.20<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,370.08             |  |
| 08 33 23 | 13-0194 | EA   |     | 14' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 33,791.71<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,402.48             |  |
| 08 33 23 | 13-0195 | EA   |     | 14' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 35,145.01<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,434.87             |  |
| 08 33 23 | 13-0196 | EA   |     | 14' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 36,149.74<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,467.26             |  |
| 08 33 23 | 13-0197 | EA   |     | 14' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 36,913.41<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,499.66             |  |
| 08 33 23 | 13-0198 | EA   |     | 14' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 38,048.20<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,532.06             |  |
| 08 33 23 | 13-0199 | EA   |     | 14' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 39,715.96<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,587.45             |  |
| 08 33 23 | 13-0200 | EA   |     | 14' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 41,360.54<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,628.72             |  |
| 08 33 23 | 13-0201 | EA   |     | 14' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 42,808.74<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,671.07             |  |

**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR   | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|---|---------|-----|--|---|----------------------|
| 08 33 23  | 13-0202 | EA  | 14' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 45,961.63<br>675.00<br>1,100.00<br>2,750.00<br>5,480.00<br>7,370.00 | 1,714.51             |
| <b>08 33 23 13-0203 15' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)</b> |         |     |  |   |                      |
| 08 33 23  | 13-0204 | EA  | 15' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>  | 32,368.98<br>675.00<br>1,100.00<br>2,750.00                         | 1,337.69             |
| 08 33 23  | 13-0205 | EA  | 15' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>  | 33,727.97<br>675.00<br>1,100.00<br>2,750.00                         | 1,370.08             |
| 08 33 23  | 13-0206 | EA  | 15' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 35,081.33<br>675.00<br>1,100.00<br>2,750.00                         | 1,402.48             |
| 08 33 23  | 13-0207 | EA  | 15' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 36,086.34<br>675.00<br>1,100.00<br>2,750.00                         | 1,434.87             |
| 08 33 23  | 13-0208 | EA  | 15' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 36,849.73<br>675.00<br>1,100.00<br>2,750.00                         | 1,467.26             |
| 08 33 23  | 13-0209 | EA  | 15' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 37,983.97<br>675.00<br>1,100.00<br>2,750.00                         | 1,499.66             |
| 08 33 23  | 13-0210 | EA  | 15' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 39,675.65<br>675.00<br>1,100.00<br>2,750.00                         | 1,567.29             |
| 08 33 23  | 13-0211 | EA  | 15' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 41,351.02<br>675.00<br>1,100.00<br>2,750.00                         | 1,623.96             |
| 08 33 23  | 13-0212 | EA  | 15' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 42,798.97<br>675.00<br>1,100.00<br>2,750.00                         | 1,666.18             |
| 08 33 23  | 13-0213 | EA  | 15' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 45,951.60<br>675.00<br>1,100.00<br>2,750.00                         | 1,709.50             |
| 08 33 23  | 13-0214 | EA  | 15' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>   | 48,170.03<br>675.00<br>1,100.00<br>2,750.00                         | 1,753.95             |
| <b>08 33 23 13-0215 16' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)</b> |         |     |  |   |                      |
| 08 33 23  | 13-0216 | EA  | 16' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i>  | 33,787.66<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,399.93             |
| 08 33 23  | 13-0217 | EA  | 16' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i>  | 35,144.04<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,433.83             |
| 08 33 23  | 13-0218 | EA  | 16' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 36,152.06<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,467.74             |
| 08 33 23  | 13-0219 | EA  | 16' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i><br><i>For 304 Stainless Steel Side Frame Tower, Add</i><br><i>For 316 Stainless Steel Side Frame Tower, Add</i> | 36,918.46<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,501.63             |



|  | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|--|---------|-----|-----|---|---|----------------------|
| 08 33 23   | 13-0220 | EA  |     | 16' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 38,055.71<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,535.54             |
| 08 33 23   | 13-0221 | EA  |     | 16' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 39,679.95<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,569.43             |
| 08 33 23   | 13-0222 | EA  |     | 16' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 41,309.78<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,603.34             |
| 08 33 23   | 13-0223 | EA  |     | 16' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 42,789.22<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,661.31             |
| 08 33 23   | 13-0224 | EA  |     | 16' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 45,941.61<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,704.50             |
| 08 33 23   | 13-0225 | EA  |     | 16' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 48,159.78<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,748.82             |
| 08 33 23   | 13-0226 | EA  |     | 16' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add<br>For 304 Stainless Steel Side Frame Tower, Add<br>For 316 Stainless Steel Side Frame Tower, Add | 50,391.49<br>675.00<br>1,100.00<br>2,750.00<br>6,070.00<br>7,790.00 | 1,794.30             |
| <b>08 33 23 13-0227 17' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> <small>(08 33 23 13-0118)</small> |         |     |     |   |   |                      |
| 08 33 23   | 13-0228 | EA  |     | 17' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add  | 35,017.02<br>675.00<br>1,100.00<br>2,750.00                         | 1,432.13             |
| 08 33 23   | 13-0229 | EA  |     | 17' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add  | 36,150.22<br>675.00<br>1,100.00<br>2,750.00                         | 1,466.81             |
| 08 33 23   | 13-0230 | EA  |     | 17' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 37,521.27<br>675.00<br>1,100.00<br>2,750.00                         | 1,501.49             |
| 08 33 23   | 13-0231 | EA  |     | 17' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 39,027.18<br>675.00<br>1,100.00<br>2,750.00                         | 1,536.17             |
| 08 33 23   | 13-0232 | EA  |     | 17' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 40,409.47<br>675.00<br>1,100.00<br>2,750.00                         | 1,570.85             |
| 08 33 23   | 13-0233 | EA  |     | 17' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 42,464.14<br>675.00<br>1,100.00<br>2,750.00                         | 1,605.53             |
| 08 33 23   | 13-0234 | EA  |     | 17' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 44,443.91<br>675.00<br>1,100.00<br>2,750.00                         | 1,640.21             |
| 08 33 23   | 13-0235 | EA  |     | 17' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 45,931.64<br>675.00<br>1,100.00<br>2,750.00                         | 1,699.52             |
| 08 33 23   | 13-0236 | EA  |     | 17' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 48,149.55<br>675.00<br>1,100.00<br>2,750.00                         | 1,743.71             |
| 08 33 23   | 13-0237 | EA  |     | 17' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br>For NEMA 4X Control Box, Add<br>For 2 Speed Motor, 60" Open, 30" Close, Add<br>For AC Variable Speed Motor And Controls, Add   | 50,381.00<br>675.00<br>1,100.00<br>2,750.00                         | 1,789.04             |



**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 33 23 13-0238 EA 17' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 52,545.50                 | 1,835.57                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| <b>08 33 23 13-0239 18' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> (08 33 23 13-0118) |                           |                         |
| 08 33 23 13-0240 EA 18' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                    | 36,510.08                 | 1,465.07                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0241 EA 18' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                    | 38,006.34                 | 1,500.55                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0242 EA 18' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 39,635.59                 | 1,536.02                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0243 EA 18' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 41,259.22                 | 1,571.51                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0244 EA 18' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 42,952.13                 | 1,606.98                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0245 EA 18' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 45,356.78                 | 1,642.47                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0246 EA 18' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 47,828.85                 | 1,677.94                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0247 EA 18' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 49,047.74                 | 1,738.61                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0248 EA 18' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 50,370.54                 | 1,783.81                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0249 EA 18' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 52,472.96                 | 1,830.19                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| 08 33 23 13-0250 EA 18' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                   | 54,643.34                 | 1,877.78                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |
| For 304 Stainless Steel Side Frame Tower, Add   | 6,720.00                  |                         |
| For 316 Stainless Steel Side Frame Tower, Add   | 8,230.00                  |                         |
| <b>08 33 23 13-0251 19' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> (08 33 23 13-0118) |                           |                         |
| 08 33 23 13-0252 EA 19' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                    | 38,002.78                 | 1,498.76                |
| For NEMA 4X Control Box, Add  | 675.00                    |                         |
| For 2 Speed Motor, 60" Open, 30" Close, Add   | 1,100.00                  |                         |
| For AC Variable Speed Motor And Controls, Add   | 2,750.00                  |                         |



|                                   |              |           |
|-----------------------------------|--------------|-----------|
| <b>Openings</b>                   | <b>08</b>    | <b>08</b> |
| <b>Specialty Doors and Frames</b> | <b>08 30</b> |           |
| <b>Coiling Doors and Grilles</b>  | <b>08 33</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 08 33 23 13-0253 EA 19' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>  | 39,633.66<br>675.00<br>1,100.00<br>2,750.00 | 1,535.05                |
| 08 33 23 13-0254 EA 19' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 41,258.92<br>675.00<br>1,100.00<br>2,750.00 | 1,571.35                |
| 08 33 23 13-0255 EA 19' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 42,953.47<br>675.00<br>1,100.00<br>2,750.00 | 1,607.64                |
| 08 33 23 13-0256 EA 19' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 45,359.75<br>675.00<br>1,100.00<br>2,750.00 | 1,643.94                |
| 08 33 23 13-0257 EA 19' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 47,833.45<br>675.00<br>1,100.00<br>2,750.00 | 1,680.23                |
| 08 33 23 13-0258 EA 19' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 49,003.58<br>675.00<br>1,100.00<br>2,750.00 | 1,716.53                |
| 08 33 23 13-0259 EA 19' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 50,360.11<br>675.00<br>1,100.00<br>2,750.00 | 1,778.60                |
| 08 33 23 13-0260 EA 19' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 52,462.25<br>675.00<br>1,100.00<br>2,750.00 | 1,824.84                |
| 08 33 23 13-0261 EA 19' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 54,632.37<br>675.00<br>1,100.00<br>2,750.00 | 1,872.29                |
| 08 33 23 13-0262 EA 19' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 56,804.95<br>675.00<br>1,100.00<br>2,750.00 | 1,920.96                |
| <b>08 33 23 13-0263 20' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> <small>(08 33 23 13-0118)</small>   |   |                         |
| 08 33 23 13-0264 EA 20' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>  | 39,630.01<br>675.00<br>1,100.00<br>2,750.00 | 1,533.23                |
| 08 33 23 13-0265 EA 20' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i>  | 41,256.94<br>675.00<br>1,100.00<br>2,750.00 | 1,570.37                |
| 08 33 23 13-0266 EA 20' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 42,953.16<br>675.00<br>1,100.00<br>2,750.00 | 1,607.49                |
| 08 33 23 13-0267 EA 20' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 45,361.11<br>675.00<br>1,100.00<br>2,750.00 | 1,644.62                |
| 08 33 23 13-0268 EA 20' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 47,836.48<br>675.00<br>1,100.00<br>2,750.00 | 1,681.75                |
| 08 33 23 13-0269 EA 20' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 49,008.28<br>675.00<br>1,100.00<br>2,750.00 | 1,718.88                |
| 08 33 23 13-0270 EA 20' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 50,314.94<br>675.00<br>1,100.00<br>2,750.00 | 1,756.01                |
| 08 33 23 13-0271 EA 20' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 52,451.59<br>675.00<br>1,100.00<br>2,750.00 | 1,819.51                |
| 08 33 23 13-0272 EA 20' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 54,621.42<br>675.00<br>1,100.00<br>2,750.00 | 1,866.82                |
| 08 33 23 13-0273 EA 20' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 56,793.71<br>675.00<br>1,100.00<br>2,750.00 | 1,915.35                |

**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR   | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                      | DEMOLITION UNIT COST |
|---|---------|-----|--|---|----------------------|
| 08 33 23  | 13-0274 | EA  | 20' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 58,706.31<br>675.00<br>1,100.00<br>2,750.00 | 1,965.15             |
| <b>08 33 23 13-0275 21' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)</b> |         |     |  |   |                      |
| 08 33 23  | 13-0276 | EA  | 21' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 49,546.82<br>675.00<br>1,100.00<br>2,750.00 | 1,644.47             |
| 08 33 23  | 13-0277 | EA  | 21' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 51,956.46<br>675.00<br>1,100.00<br>2,750.00 | 1,682.45             |
| 08 33 23  | 13-0278 | EA  | 21' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 54,431.67<br>675.00<br>1,100.00<br>2,750.00 | 1,720.44             |
| 08 33 23  | 13-0279 | EA  | 21' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 55,608.93<br>675.00<br>1,100.00<br>2,750.00 | 1,758.42             |
| 08 33 23  | 13-0280 | EA  | 21' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 56,915.41<br>675.00<br>1,100.00<br>2,750.00 | 1,796.40             |
| 08 33 23  | 13-0281 | EA  | 21' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 59,054.99<br>675.00<br>1,100.00<br>2,750.00 | 1,861.35             |
| 08 33 23  | 13-0282 | EA  | 21' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 61,226.99<br>675.00<br>1,100.00<br>2,750.00 | 1,909.76             |
| 08 33 23  | 13-0283 | EA  | 21' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 63,401.52<br>675.00<br>1,100.00<br>2,750.00 | 1,959.41             |
| 08 33 23  | 13-0284 | EA  | 21' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 65,316.42<br>675.00<br>1,100.00<br>2,750.00 | 2,010.35             |
| <b>08 33 23 13-0285 22' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)</b> |         |     |  |   |                      |
| 08 33 23  | 13-0286 | EA  | 22' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 51,435.46<br>675.00<br>1,100.00<br>2,750.00 | 1,682.29             |
| 08 33 23  | 13-0287 | EA  | 22' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 53,848.73<br>675.00<br>1,100.00<br>2,750.00 | 1,721.14             |
| 08 33 23  | 13-0288 | EA  | 22' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 56,323.82<br>675.00<br>1,100.00<br>2,750.00 | 1,760.01             |
| 08 33 23  | 13-0289 | EA  | 22' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 57,500.94<br>675.00<br>1,100.00<br>2,750.00 | 1,798.86             |
| 08 33 23  | 13-0290 | EA  | 22' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 58,812.93<br>675.00<br>1,100.00<br>2,750.00 | 1,837.72             |
| 08 33 23  | 13-0291 | EA  | 22' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 60,955.49<br>675.00<br>1,100.00<br>2,750.00 | 1,904.16             |
| 08 33 23  | 13-0292 | EA  | 22' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 63,129.72<br>675.00<br>1,100.00<br>2,750.00 | 1,953.67             |
| 08 33 23  | 13-0293 | EA  | 22' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 65,304.66<br>675.00<br>1,100.00<br>2,750.00 | 2,004.47             |
| 08 33 23  | 13-0294 | EA  | 22' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....<br><i>For NEMA 4X Control Box, Add</i><br><i>For 2 Speed Motor, 60" Open, 30" Close, Add</i><br><i>For AC Variable Speed Motor And Controls, Add</i> | 67,223.77<br>675.00<br>1,100.00<br>2,750.00 | 2,056.59             |



|  | MINOR<br>CSI UOM DESCRIPTION |  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|------------------------------|--|---------------------------|-------------------------|
|--|------------------------------|--|---------------------------|-------------------------|

|                         |   |           |          |  |
|-------------------------|---|-----------|----------|--|
| <b>08 33 23 13-0295</b> | <b>23' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> <small>(08 33 23 13-0118)</small> |           |          |  |
| 08 33 23 13-0296        | EA 23' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 53,327.73 | 1,720.98 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0297        | EA 23' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 55,740.91 | 1,760.73 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0298        | EA 23' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 58,219.66 | 1,800.48 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0299        | EA 23' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 59,398.57 | 1,840.23 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0300        | EA 23' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 60,710.47 | 1,879.99 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0301        | EA 23' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 62,857.95 | 1,947.97 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0302        | EA 23' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 65,032.60 | 1,998.61 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0303        | EA 23' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 67,211.75 | 2,050.57 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0304        | EA 23' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 69,133.25 | 2,103.89 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| <b>08 33 23 13-0305</b> | <b>24' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®)</b> <small>(08 33 23 13-0118)</small> |           |          |  |
| 08 33 23 13-0306        | EA 24' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 55,219.90 | 1,760.56 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0307        | EA 24' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 57,634.92 | 1,801.23 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0308        | EA 24' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 60,117.35 | 1,841.89 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0309        | EA 24' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 61,298.10 | 1,882.56 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0310        | EA 24' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 62,609.95 | 1,923.23 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0311        | EA 24' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 64,758.70 | 1,992.77 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0312        | EA 24' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 66,937.55 | 2,044.57 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0313        | EA 24' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 69,120.95 | 2,097.74 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| 08 33 23 13-0314        | EA 24' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....                                  | 71,041.16 | 2,152.28 |  |
|                         | <i>For NEMA 4X Control Box, Add</i>   | 675.00    |          |  |
|                         | <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>  | 1,100.00  |          |  |
|                         | <i>For AC Variable Speed Motor And Controls, Add</i>  | 2,750.00  |          |  |
| <b>08 33 23 13-0315</b> | <b>Rytec® Fast-Seal® Door Options</b> <small>(08 33 23 13-0117)</small>   |           |          |  |

|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 33</b> | <b>Coiling Doors and Grilles</b>  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 33 23 13-0316 LF Strapped Windbar For Rytec® Fast-Seal® High-Speed Rolling Doors .....<br>Note: Multiply linear foot price x width of door.  | 52.03                     |                         |
| 08 33 23 13-0317 EA Up To 10' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors .....  | 563.62                    |                         |
| 08 33 23 13-0318 EA >10' To 15' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors .....  | 936.47                    |                         |
| 08 33 23 13-0319 EA >15' To 20' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors .....  | 1,377.16                  |                         |
| 08 33 23 13-0320 EA >20' To 24' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors .....  | 2,060.23                  |                         |
| 08 33 23 13-0321 EA One 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Window With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....   | 329.50                    |                         |
| 08 33 23 13-0322 EA Two 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....  | 650.33                    |                         |
| Note: Door must be at least 90" wide.   |                           |                         |
| 08 33 23 13-0323 EA Three 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....  | 823.75                    |                         |
| Note: Door must be at least 102" wide.  |                           |                         |
| 08 33 23 13-0324 EA Four 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....   | 1,300.65                  |                         |
| Note: Door must be at least 136" wide.  |                           |                         |
| 08 33 23 13-0325 EA One 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Window With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....   | 381.52                    |                         |
| 08 33 23 13-0326 EA Two 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....  | 754.38                    |                         |
| Note: Door must be at least 108" wide.  |                           |                         |
| 08 33 23 13-0327 EA Three 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....  | 936.47                    |                         |
| Note: Door must be at least 144" wide.  |                           |                         |
| 08 33 23 13-0328 EA Four 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal®<br>High-Speed Rolling Doors .....   | 1,508.76                  |                         |
| Note: Door must be at least 192" wide.  |                           |                         |
| 08 33 23 13-0329 EA Sloped Roll And Motor Cover For Interior Or Exterior Door Widths Of 8' Or 10' .....   | 747.12                    |                         |
| For 304 Stainless Steel, Add  | 119.54                    |                         |
| For 316 Stainless Steel, Add  | 522.98                    |                         |
| 08 33 23 13-0330 EA Sloped Roll And Motor Cover For Interior Or Exterior Door Widths Of 12' Or 14' .....  | 971.26                    |                         |
| For 304 Stainless Steel, Add  | 155.40                    |                         |
| For 316 Stainless Steel, Add  | 679.88                    |                         |
| 08 33 23 13-0331 EA Sloped Roll And Motor Cover For Interior Or Exterior Door Widths Of 16' Or 18' .....  | 1,270.11                  |                         |
| For 304 Stainless Steel, Add  | 203.22                    |                         |
| For 316 Stainless Steel, Add  | 889.08                    |                         |
| 08 33 23 13-0332 EA Through Wall Brake Release .....  | 193.82                    |                         |
| 08 33 23 13-0333 EA Explosion Proof Upgrade Package: Control Box (including internal components), Motor, Rotary Limit Switch,<br>Photo-eyes, Safety Bar, Push Buttons.....  | 21,442.49                 |                         |
| For NEMA 12 Control Box Mounted Outside Explosion Proof Area, Deduct  | -6,200.00                 |                         |
| <b>08 33 23 13-0334 High Performance Rubber, High-Speed Rolling Door (Rytec®<br/>Powerhouse™)</b> <small>(08 33 23 13)</small><br>Note: Rytec® Powerhouse™. Door panel is styrene butadiene rubber (SBR) panel 1/4" thick, made of two 1/8"<br>thick layers, 60 durometer; sandwiched with 1-ply, 110 lbs polyester cord center. Panel includes bonded SBR<br>beveled segmented windlocks to allow the door panel to effectively release from the side frame in case of<br>accidental impact. Vertical orange stripes for visual safety awareness. Side frames are structural columns<br>consisting of 5 x 2 x 1/4" structural steel tubing, welded to a reinforced 0.22" thick steel 'Z' mounting bracket and<br>0.18" thick steel hinged cover. Drive system is a 480 volt, 3-phase variable speed AC Drive motor with brake and<br>absolute encoder. Opens at up to 60" per second and closes at 21" per second. |                           |                         |
| <b>08 33 23 13-0335 High Performance Rubber, High-Speed Rolling Door (Rytec®<br/>Powerhouse™)</b> <small>(08 33 23 13-0334)</small>   |                           |                         |
| <b>08 33 23 13-0336 8' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec®<br/>Powerhouse™)</b> <small>(08 33 23 13-0335)</small>  |                           |                         |
| 08 33 23 13-0337 EA 8' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....  | 32,253.70                 | 1,143.32                |
| 08 33 23 13-0338 EA 8' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....  | 32,539.48                 | 1,175.72                |
| 08 33 23 13-0339 EA 8' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 33,044.42                 | 1,208.11                |
| 08 33 23 13-0340 EA 8' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 33,549.34                 | 1,240.51                |
| 08 33 23 13-0341 EA 8' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 34,056.15                 | 1,272.90                |
| 08 33 23 13-0342 EA 8' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 34,561.07                 | 1,305.29                |
| 08 33 23 13-0343 EA 8' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 34,845.00                 | 1,337.69                |
| 08 33 23 13-0344 EA 8' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 35,356.58                 | 1,372.47                |
| 08 33 23 13-0345 EA 8' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 36,308.23                 | 1,408.16                |
| 08 33 23 13-0346 EA 8' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 36,602.46                 | 1,444.77                |
| 08 33 23 13-0347 EA 8' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 37,338.72                 | 1,482.33                |
| <b>08 33 23 13-0348 9' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec®<br/>Powerhouse™)</b> <small>(08 33 23 13-0335)</small>  |                           |                         |
| 08 33 23 13-0349 EA 9' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....  | 32,539.48                 | 1,175.72                |
| 08 33 23 13-0350 EA 9' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....  | 32,823.42                 | 1,208.11                |
| 08 33 23 13-0351 EA 9' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 33,330.21                 | 1,240.51                |
| 08 33 23 13-0352 EA 9' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 34,056.15                 | 1,272.90                |
| 08 33 23 13-0353 EA 9' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 34,340.06                 | 1,305.29                |
| 08 33 23 13-0354 EA 9' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 34,845.00                 | 1,337.69                |
| 08 33 23 13-0355 EA 9' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 35,351.81                 | 1,370.08                |
| 08 33 23 13-0356 EA 9' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 35,868.09                 | 1,408.16                |
| 08 33 23 13-0357 EA 9' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 37,042.60                 | 1,444.77                |
| 08 33 23 13-0358 EA 9' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) .....   | 38,220.88                 | 1,482.33                |



|                         | MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|----------|---------|-----|---|------------------------|----------------------|
|                         | 08 33 23 | 13-0359 | EA  | 9' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 39,399.26              | 1,520.88             |
| <b>08 33 23 13-0360</b> |          |         |     | <b>10' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335) |                        |                      |
|                         | 08 33 23 | 13-0361 | EA  | 10' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 34,145.71              | 1,208.11             |
|                         | 08 33 23 | 13-0362 | EA  | 10' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 34,431.50              | 1,240.51             |
|                         | 08 33 23 | 13-0363 | EA  | 10' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 34,936.43              | 1,272.90             |
|                         | 08 33 23 | 13-0364 | EA  | 10' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 35,662.36              | 1,305.29             |
|                         | 08 33 23 | 13-0365 | EA  | 10' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,167.30              | 1,337.69             |
|                         | 08 33 23 | 13-0366 | EA  | 10' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,674.10              | 1,370.08             |
|                         | 08 33 23 | 13-0367 | EA  | 10' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 37,179.02              | 1,402.48             |
|                         | 08 33 23 | 13-0368 | EA  | 10' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 37,923.35              | 1,444.05             |
|                         | 08 33 23 | 13-0369 | EA  | 10' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 38,878.71              | 1,481.61             |
|                         | 08 33 23 | 13-0370 | EA  | 10' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 40,278.05              | 1,520.12             |
|                         | 08 33 23 | 13-0371 | EA  | 10' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 41,460.27              | 1,559.64             |
| <b>08 33 23 13-0372</b> |          |         |     | <b>11' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335) |                        |                      |
|                         | 08 33 23 | 13-0373 | EA  | 11' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 34,210.49              | 1,240.51             |
|                         | 08 33 23 | 13-0374 | EA  | 11' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 34,715.42              | 1,272.90             |
|                         | 08 33 23 | 13-0375 | EA  | 11' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 35,222.22              | 1,305.29             |
|                         | 08 33 23 | 13-0376 | EA  | 11' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 35,948.16              | 1,337.69             |
|                         | 08 33 23 | 13-0377 | EA  | 11' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,453.10              | 1,370.08             |
|                         | 08 33 23 | 13-0378 | EA  | 11' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,958.02              | 1,402.48             |
|                         | 08 33 23 | 13-0379 | EA  | 11' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 38,125.97              | 1,434.87             |
|                         | 08 33 23 | 13-0380 | EA  | 11' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 39,536.40              | 1,479.87             |
|                         | 08 33 23 | 13-0381 | EA  | 11' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 40,935.66              | 1,518.34             |
|                         | 08 33 23 | 13-0382 | EA  | 11' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 42,336.89              | 1,557.83             |
|                         | 08 33 23 | 13-0383 | EA  | 11' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 43,519.19              | 1,598.33             |
| <b>08 33 23 13-0384</b> |          |         |     | <b>12' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335) |                        |                      |
|                         | 08 33 23 | 13-0385 | EA  | 12' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 34,496.29              | 1,272.90             |
|                         | 08 33 23 | 13-0386 | EA  | 12' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 35,001.21              | 1,305.29             |
|                         | 08 33 23 | 13-0387 | EA  | 12' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 35,506.15              | 1,337.69             |
|                         | 08 33 23 | 13-0388 | EA  | 12' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,232.09              | 1,370.08             |
|                         | 08 33 23 | 13-0389 | EA  | 12' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,958.02              | 1,402.48             |
|                         | 08 33 23 | 13-0390 | EA  | 12' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 38,345.10              | 1,434.87             |
|                         | 08 33 23 | 13-0391 | EA  | 12' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 39,732.19              | 1,467.26             |
|                         | 08 33 23 | 13-0392 | EA  | 12' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 41,151.31              | 1,515.69             |
|                         | 08 33 23 | 13-0393 | EA  | 12' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 42,771.56              | 1,555.10             |
|                         | 08 33 23 | 13-0394 | EA  | 12' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 44,174.73              | 1,595.52             |
|                         | 08 33 23 | 13-0395 | EA  | 12' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 45,579.99              | 1,637.01             |
| <b>08 33 23 13-0396</b> |          |         |     | <b>13' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335) |                        |                      |
|                         | 08 33 23 | 13-0397 | EA  | 13' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 35,001.21              | 1,305.29             |
|                         | 08 33 23 | 13-0398 | EA  | 13' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 35,287.02              | 1,337.69             |
|                         | 08 33 23 | 13-0399 | EA  | 13' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 35,791.95              | 1,370.08             |
|                         | 08 33 23 | 13-0400 | EA  | 13' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,738.88              | 1,402.48             |
|                         | 08 33 23 | 13-0401 | EA  | 13' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 38,345.10              | 1,434.87             |
|                         | 08 33 23 | 13-0402 | EA  | 13' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 39,953.20              | 1,467.26             |
|                         | 08 33 23 | 13-0403 | EA  | 13' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 41,340.28              | 1,499.66             |
|                         | 08 33 23 | 13-0404 | EA  | 13' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 42,985.61              | 1,551.60             |
|                         | 08 33 23 | 13-0405 | EA  | 13' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 44,609.59              | 1,591.95             |
|                         | 08 33 23 | 13-0406 | EA  | 13' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 46,233.80              | 1,633.34             |
|                         | 08 33 23 | 13-0407 | EA  | 13' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 47,641.04              | 1,675.81             |
| <b>08 33 23 13-0408</b> |          |         |     | <b>14' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335) |                        |                      |
|                         | 08 33 23 | 13-0409 | EA  | 14' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 35,287.02              | 1,337.69             |
|                         | 08 33 23 | 13-0410 | EA  | 14' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                      | 35,570.94              | 1,370.08             |
|                         | 08 33 23 | 13-0411 | EA  | 14' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 36,296.87              | 1,402.48             |
|                         | 08 33 23 | 13-0412 | EA  | 14' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 37,683.95              | 1,434.87             |
|                         | 08 33 23 | 13-0413 | EA  | 14' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 39,732.19              | 1,467.26             |
|                         | 08 33 23 | 13-0414 | EA  | 14' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 41,340.28              | 1,499.66             |
|                         | 08 33 23 | 13-0415 | EA  | 14' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 43,167.50              | 1,532.06             |
|                         | 08 33 23 | 13-0416 | EA  | 14' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 44,819.72              | 1,587.45             |
|                         | 08 33 23 | 13-0417 | EA  | 14' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 46,445.57              | 1,628.72             |
|                         | 08 33 23 | 13-0418 | EA  | 14' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 48,071.70              | 1,671.07             |
|                         | 08 33 23 | 13-0419 | EA  | 14' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                     | 49,922.89              | 1,714.51             |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                         |  |           |          |
|-------------------------|--|-----------|----------|
| <b>08 33 23 13-0420</b> | <b>15' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> <small>(08 33 23 13-0335)</small> |           |          |
| 08 33 23 13-0421        | EA 15' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 36,670.84 | 1,368.45 |
| 08 33 23 13-0422        | EA 15' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 37,177.26 | 1,401.60 |
| 08 33 23 13-0423        | EA 15' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 37,904.68 | 1,434.73 |
| 08 33 23 13-0424        | EA 15' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 38,851.24 | 1,467.88 |
| 08 33 23 13-0425        | EA 15' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 41,121.98 | 1,501.02 |
| 08 33 23 13-0426        | EA 15' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 42,950.69 | 1,534.15 |
| 08 33 23 13-0427        | EA 15' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 44,779.42 | 1,567.29 |
| 08 33 23 13-0428        | EA 15' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 46,436.06 | 1,623.96 |
| 08 33 23 13-0429        | EA 15' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 48,282.94 | 1,666.18 |
| 08 33 23 13-0430        | EA 15' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 50,132.00 | 1,709.51 |
| 08 33 23 13-0431        | EA 15' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 51,983.34 | 1,753.95 |
| <b>08 33 23 13-0432</b> | <b>16' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> <small>(08 33 23 13-0335)</small> |           |          |
| 08 33 23 13-0433        | EA 16' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 36,952.93 | 1,399.94 |
| 08 33 23 13-0434        | EA 16' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 37,681.87 | 1,433.83 |
| 08 33 23 13-0435        | EA 16' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 38,410.83 | 1,467.74 |
| 08 33 23 13-0436        | EA 16' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 40,241.06 | 1,501.63 |
| 08 33 23 13-0437        | EA 16' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 42,732.44 | 1,535.54 |
| 08 33 23 13-0438        | EA 16' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 44,564.56 | 1,569.44 |
| 08 33 23 13-0439        | EA 16' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 46,394.81 | 1,603.33 |
| 08 33 23 13-0440        | EA 16' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 48,273.19 | 1,661.31 |
| 08 33 23 13-0441        | EA 16' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 50,122.00 | 1,704.50 |
| 08 33 23 13-0442        | EA 16' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 51,973.08 | 1,748.83 |
| 08 33 23 13-0443        | EA 16' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 54,047.47 | 1,794.30 |
| <b>08 33 23 13-0444</b> | <b>17' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> <small>(08 33 23 13-0335)</small> |           |          |
| 08 33 23 13-0445        | EA 17' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 37,459.33 | 1,432.13 |
| 08 33 23 13-0446        | EA 17' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 37,968.83 | 1,466.81 |
| 08 33 23 13-0447        | EA 17' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 39,800.63 | 1,501.49 |
| 08 33 23 13-0448        | EA 17' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 41,632.44 | 1,536.17 |
| 08 33 23 13-0449        | EA 17' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 44,125.38 | 1,570.85 |
| 08 33 23 13-0450        | EA 17' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 46,178.18 | 1,605.53 |
| 08 33 23 13-0451        | EA 17' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 48,009.99 | 1,640.21 |
| 08 33 23 13-0452        | EA 17' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 50,112.05 | 1,699.52 |
| 08 33 23 13-0453        | EA 17' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 51,962.86 | 1,743.71 |
| 08 33 23 13-0454        | EA 17' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 54,036.98 | 1,789.04 |
| 08 33 23 13-0455        | EA 17' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 56,113.45 | 1,835.57 |
| <b>08 33 23 13-0456</b> | <b>18' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> <small>(08 33 23 13-0335)</small> |           |          |
| 08 33 23 13-0457        | EA 18' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 37,965.35 | 1,465.07 |
| 08 33 23 13-0458        | EA 18' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 38,476.46 | 1,500.55 |
| 08 33 23 13-0459        | EA 18' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 40,970.99 | 1,536.03 |
| 08 33 23 13-0460        | EA 18' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 43,025.40 | 1,571.50 |
| 08 33 23 13-0461        | EA 18' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 45,519.95 | 1,606.98 |
| 08 33 23 13-0462        | EA 18' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 47,574.34 | 1,642.46 |
| 08 33 23 13-0463        | EA 18' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 49,849.75 | 1,677.94 |
| 08 33 23 13-0464        | EA 18' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 51,952.67 | 1,738.61 |
| 08 33 23 13-0465        | EA 18' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 54,026.51 | 1,783.81 |
| 08 33 23 13-0466        | EA 18' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 56,102.72 | 1,830.19 |
| 08 33 23 13-0467        | EA 18' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 58,181.33 | 1,877.78 |
| <b>08 33 23 13-0468</b> | <b>19' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> <small>(08 33 23 13-0335)</small> |           |          |
| 08 33 23 13-0469        | EA 19' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 38,913.03 | 1,498.75 |
| 08 33 23 13-0470        | EA 19' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 39,646.77 | 1,535.06 |
| 08 33 23 13-0471        | EA 19' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 42,363.94 | 1,571.35 |
| 08 33 23 13-0472        | EA 19' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 44,419.98 | 1,607.65 |
| 08 33 23 13-0473        | EA 19' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 47,137.16 | 1,643.94 |
| 08 33 23 13-0474        | EA 19' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 49,193.20 | 1,680.24 |
| 08 33 23 13-0475        | EA 19' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 51,468.37 | 1,716.53 |
| 08 33 23 13-0476        | EA 19' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 53,575.93 | 1,778.60 |
| 08 33 23 13-0477        | EA 19' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 55,871.01 | 1,824.84 |
| 08 33 23 13-0478        | EA 19' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 57,949.35 | 1,872.29 |
| 08 33 23 13-0479        | EA 19' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                      | 60,251.16 | 1,920.97 |
| <b>08 33 23 13-0480</b> | <b>20' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> <small>(08 33 23 13-0335)</small> |           |          |
| 08 33 23 13-0481        | EA 20' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)                                       | 40,304.27 | 1,533.23 |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
|                         |       |     |     | 08 33 23 13-0482 EA 20' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 41,039.69              | 1,570.37             |
|                         |       |     |     | 08 33 23 13-0483 EA 20' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 43,537.52              | 1,607.50             |
|                         |       |     |     | 08 33 23 13-0484 EA 20' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 45,816.23              | 1,644.62             |
|                         |       |     |     | 08 33 23 13-0485 EA 20' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 48,535.08              | 1,681.75             |
|                         |       |     |     | 08 33 23 13-0486 EA 20' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 50,811.92              | 1,718.89             |
|                         |       |     |     | 08 33 23 13-0487 EA 20' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 53,090.62              | 1,756.01             |
|                         |       |     |     | 08 33 23 13-0488 EA 20' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 55,420.20              | 1,819.51             |
|                         |       |     |     | 08 33 23 13-0489 EA 20' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 57,719.25              | 1,866.82             |
|                         |       |     |     | 08 33 23 13-0490 EA 20' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 60,018.91              | 1,915.35             |
|                         |       |     |     | 08 33 23 13-0491 EA 20' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 62,321.09              | 1,965.15             |
| <b>08 33 23 13-0492</b> |       |     |     | <b>21' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335)                |                        |                      |
|                         |       |     |     | 08 33 23 13-0493 EA 21' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 40,595.80              | 1,568.50             |
|                         |       |     |     | 08 33 23 13-0494 EA 21' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 42,655.21              | 1,606.49             |
|                         |       |     |     | 08 33 23 13-0495 EA 21' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 44,714.63              | 1,644.47             |
|                         |       |     |     | 08 33 23 13-0496 EA 21' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 47,214.19              | 1,682.45             |
|                         |       |     |     | 08 33 23 13-0497 EA 21' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 49,934.74              | 1,720.44             |
|                         |       |     |     | 08 33 23 13-0498 EA 21' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 52,434.30              | 1,758.42             |
|                         |       |     |     | 08 33 23 13-0499 EA 21' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 54,712.84              | 1,796.40             |
|                         |       |     |     | 08 33 23 13-0500 EA 21' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 57,266.33              | 1,861.35             |
|                         |       |     |     | 08 33 23 13-0501 EA 21' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 59,567.57              | 1,909.76             |
|                         |       |     |     | 08 33 23 13-0502 EA 21' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 61,869.45              | 1,959.40             |
|                         |       |     |     | 08 33 23 13-0503 EA 21' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 64,394.93              | 2,010.35             |
| <b>08 33 23 13-0504</b> |       |     |     | <b>22' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335)                |                        |                      |
|                         |       |     |     | 08 33 23 13-0505 EA 22' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 41,108.10              | 1,604.58             |
|                         |       |     |     | 08 33 23 13-0506 EA 22' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 42,948.24              | 1,643.44             |
|                         |       |     |     | 08 33 23 13-0507 EA 22' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 46,112.57              | 1,682.29             |
|                         |       |     |     | 08 33 23 13-0508 EA 22' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 48,613.86              | 1,721.14             |
|                         |       |     |     | 08 33 23 13-0509 EA 22' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 51,555.32              | 1,760.01             |
|                         |       |     |     | 08 33 23 13-0510 EA 22' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 54,056.61              | 1,798.86             |
|                         |       |     |     | 08 33 23 13-0511 EA 22' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 56,338.78              | 1,837.71             |
|                         |       |     |     | 08 33 23 13-0512 EA 22' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 58,895.25              | 1,904.16             |
|                         |       |     |     | 08 33 23 13-0513 EA 22' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 61,417.85              | 1,953.67             |
|                         |       |     |     | 08 33 23 13-0514 EA 22' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 63,943.03              | 2,004.47             |
|                         |       |     |     | 08 33 23 13-0515 EA 22' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 66,470.85              | 2,056.59             |
| <b>08 33 23 13-0516</b> |       |     |     | <b>23' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335)                |                        |                      |
|                         |       |     |     | 08 33 23 13-0517 EA 23' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 42,725.21              | 1,641.48             |
|                         |       |     |     | 08 33 23 13-0518 EA 23' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 44,346.14              | 1,681.23             |
|                         |       |     |     | 08 33 23 13-0519 EA 23' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 47,291.24              | 1,720.98             |
|                         |       |     |     | 08 33 23 13-0520 EA 23' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 50,015.33              | 1,760.73             |
|                         |       |     |     | 08 33 23 13-0521 EA 23' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 52,958.58              | 1,800.48             |
|                         |       |     |     | 08 33 23 13-0522 EA 23' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 55,461.65              | 1,840.22             |
|                         |       |     |     | 08 33 23 13-0523 EA 23' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 58,185.74              | 1,880.00             |
|                         |       |     |     | 08 33 23 13-0524 EA 23' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 60,745.28              | 1,947.97             |
|                         |       |     |     | 08 33 23 13-0525 EA 23' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 63,270.16              | 1,998.60             |
|                         |       |     |     | 08 33 23 13-0526 EA 23' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 66,018.68              | 2,050.58             |
|                         |       |     |     | 08 33 23 13-0527 EA 23' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 68,548.89              | 2,103.89             |
| <b>08 33 23 13-0528</b> |       |     |     | <b>24' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)</b> (08 33 23 13-0335)                |                        |                      |
|                         |       |     |     | 08 33 23 13-0529 EA 24' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 44,123.03              | 1,679.24             |
|                         |       |     |     | 08 33 23 13-0530 EA 24' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                 | 45,305.64              | 1,719.90             |
|                         |       |     |     | 08 33 23 13-0531 EA 24' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 48,692.70              | 1,760.56             |
|                         |       |     |     | 08 33 23 13-0532 EA 24' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 51,197.62              | 1,801.23             |
|                         |       |     |     | 08 33 23 13-0533 EA 24' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 54,363.68              | 1,841.89             |
|                         |       |     |     | 08 33 23 13-0534 EA 24' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 57,089.59              | 1,882.56             |
|                         |       |     |     | 08 33 23 13-0535 EA 24' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 59,813.65              | 1,923.22             |
|                         |       |     |     | 08 33 23 13-0536 EA 24' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 62,597.33              | 1,992.76             |
|                         |       |     |     | 08 33 23 13-0537 EA 24' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 65,124.54              | 2,044.58             |
|                         |       |     |     | 08 33 23 13-0538 EA 24' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 67,875.44              | 2,097.73             |
|                         |       |     |     | 08 33 23 13-0539 EA 24' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....                | 70,629.12              | 2,152.28             |
| <b>08 33 23 13-0540</b> |       |     |     | <b>Rytec® Powerhouse™ Door Options</b> (08 33 23 13-0334)  |                        |                      |
|                         |       |     |     | 08 33 23 13-0541 EA Up To 8' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors..... | 2,865.60               |                      |
|                         |       |     |     | 08 33 23 13-0542 EA 9' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors.....       | 2,921.79               |                      |
|                         |       |     |     | 08 33 23 13-0543 EA 10' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors.....      | 2,977.98               |                      |
|                         |       |     |     | 08 33 23 13-0544 EA 11' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors.....      | 3,034.16               |                      |
|                         |       |     |     | 08 33 23 13-0545 EA 12' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors.....      | 3,090.35               |                      |
|                         |       |     |     | 08 33 23 13-0546 EA 13' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors.....      | 3,146.54               |                      |





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |          |  |
|------------------|----|--|----------|--|
| 08 33 23 13-0547 | EA | 14' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,202.73 |  |
| 08 33 23 13-0548 | EA | 15' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,258.92 |  |
| 08 33 23 13-0549 | EA | 16' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,315.10 |  |
| 08 33 23 13-0550 | EA | 17' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,371.29 |  |
| 08 33 23 13-0551 | EA | 18' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,427.48 |  |
| 08 33 23 13-0552 | EA | 19' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,483.67 |  |
| 08 33 23 13-0553 | EA | 20' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,539.86 |  |
| 08 33 23 13-0554 | EA | 21' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,596.05 |  |
| 08 33 23 13-0555 | EA | 22' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,652.23 |  |
| 08 33 23 13-0556 | EA | 23' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,708.42 |  |
| 08 33 23 13-0557 | EA | 24' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors ..... | 3,764.61 |  |
| 08 33 23 13-0558 | EA | 11" x 20" Window For Rytec® Powerhouse™ High-Speed Rolling Doors .....                           | 655.53   |  |
| 08 33 23 13-0559 | EA | 208-230 Volt Application For Rytec® Powerhouse™ Door .....                                       | 1,610.73 |  |

Note: Includes System 4 Controller In NEMA 4 Enclosure

**08 33 23 13-0560 Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral®)** (08 33 23 13)

Note: Door panels are double-walled aluminum slats that are 6" high x 1-3/16" thick. Width is variable. Side frames are galvanized steel with full height weather seal on both sides. There are extension springs in each column for counterbalance. The drive system is a 2 HP, 208,230/460 Volt, three-phase motor with variable speed AC drive. Opening and closing speeds up to 60" per second.

**08 33 23 13-0561 Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral®)** (08 33 23 13-0560)

**08 33 23 13-0562 8' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)** (08 33 23 13-0561)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 08 33 23 13-0563 | EA | 8' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 34,741.44 | 1,524.43 |
| 08 33 23 13-0564 | EA | 8' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 35,744.43 | 1,556.83 |
| 08 33 23 13-0565 | EA | 8' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 36,747.43 | 1,589.22 |
| 08 33 23 13-0566 | EA | 8' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 37,752.16 | 1,621.61 |
| 08 33 23 13-0567 | EA | 8' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 38,755.14 | 1,654.01 |
| 08 33 23 13-0568 | EA | 8' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 39,758.13 | 1,686.40 |
| 08 33 23 13-0569 | EA | 8' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 42,635.80 | 1,718.80 |
| 08 33 23 13-0570 | EA | 8' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 43,634.09 | 1,753.17 |
| 08 33 23 13-0571 | EA | 8' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 44,633.19 | 1,788.23 |
| 08 33 23 13-0572 | EA | 8' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 45,633.70 | 1,824.00 |
| 08 33 23 13-0573 | EA | 8' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 46,635.63 | 1,860.48 |

**08 33 23 13-0574 9' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)** (08 33 23 13-0561)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 08 33 23 13-0575 | EA | 9' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 35,744.43 | 1,556.83 |
| 08 33 23 13-0576 | EA | 9' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 36,747.43 | 1,589.22 |
| 08 33 23 13-0577 | EA | 9' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 37,752.16 | 1,621.61 |
| 08 33 23 13-0578 | EA | 9' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 38,755.14 | 1,654.01 |
| 08 33 23 13-0579 | EA | 9' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 39,758.13 | 1,686.40 |
| 08 33 23 13-0580 | EA | 9' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 40,761.13 | 1,718.80 |
| 08 33 23 13-0581 | EA | 9' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 43,638.80 | 1,751.19 |
| 08 33 23 13-0582 | EA | 9' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 44,623.04 | 1,786.22 |
| 08 33 23 13-0583 | EA | 9' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 45,640.82 | 1,821.93 |
| 08 33 23 13-0584 | EA | 9' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 46,642.67 | 1,858.38 |
| 08 33 23 13-0585 | EA | 9' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 47,645.99 | 1,895.54 |

**08 33 23 13-0586 10' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)** (08 33 23 13-0561)

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 08 33 23 13-0587 | EA | 10' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 36,747.43 | 1,589.22 |
| 08 33 23 13-0588 | EA | 10' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 37,752.16 | 1,621.61 |
| 08 33 23 13-0589 | EA | 10' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 38,755.14 | 1,654.01 |
| 08 33 23 13-0590 | EA | 10' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 39,758.13 | 1,686.40 |
| 08 33 23 13-0591 | EA | 10' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 40,761.13 | 1,718.80 |
| 08 33 23 13-0592 | EA | 10' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 41,764.12 | 1,751.19 |
| 08 33 23 13-0593 | EA | 10' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 44,641.79 | 1,783.58 |
| 08 33 23 13-0594 | EA | 10' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 45,642.94 | 1,819.26 |
| 08 33 23 13-0595 | EA | 10' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 46,644.69 | 1,855.64 |
| 08 33 23 13-0596 | EA | 10' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 47,647.89 | 1,892.76 |
| 08 33 23 13-0597 | EA | 10' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 48,652.58 | 1,930.60 |

**08 33 23 13-0598 11' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)** (08 33 23 13-0561)

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 08 33 23 13-0599 | EA | 11' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 37,752.16 | 1,621.61 |
| 08 33 23 13-0600 | EA | 11' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) .....  | 38,755.14 | 1,654.01 |
| 08 33 23 13-0601 | EA | 11' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 39,758.13 | 1,686.40 |
| 08 33 23 13-0602 | EA | 11' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 40,761.13 | 1,718.80 |
| 08 33 23 13-0603 | EA | 11' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 41,764.12 | 1,751.19 |
| 08 33 23 13-0604 | EA | 11' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 42,767.12 | 1,783.58 |
| 08 33 23 13-0605 | EA | 11' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 45,643.04 | 1,815.98 |
| 08 33 23 13-0606 | EA | 11' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 46,647.37 | 1,852.30 |
| 08 33 23 13-0607 | EA | 11' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) ..... | 47,650.43 | 1,889.34 |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 08 33 23 13-0608        | EA  |     | 11' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 48,654.98              | 1,927.13             |
| 08 33 23 13-0609        | EA  |     | 11' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 49,661.05              | 1,965.67             |
| <br>                    |     |     |   |                        |                      |
| <b>08 33 23 13-0610</b> |     |     | <b>12' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)</b><br><i>(08 33 23 13-0561)</i> |                        |                      |
| 08 33 23 13-0611        | EA  |     | 12' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 38,755.14              | 1,654.01             |
| 08 33 23 13-0612        | EA  |     | 12' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 39,758.13              | 1,686.40             |
| 08 33 23 13-0613        | EA  |     | 12' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 40,761.13              | 1,718.80             |
| 08 33 23 13-0614        | EA  |     | 12' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 41,764.12              | 1,751.19             |
| 08 33 23 13-0615        | EA  |     | 12' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 42,767.12              | 1,783.58             |
| 08 33 23 13-0616        | EA  |     | 12' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 43,770.10              | 1,815.98             |
| 08 33 23 13-0617        | EA  |     | 12' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 46,647.78              | 1,848.37             |
| 08 33 23 13-0618        | EA  |     | 12' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 47,651.80              | 1,885.34             |
| 08 33 23 13-0619        | EA  |     | 12' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 48,656.19              | 1,923.05             |
| 08 33 23 13-0620        | EA  |     | 12' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 49,662.10              | 1,961.51             |
| 08 33 23 13-0621        | EA  |     | 12' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 50,671.40              | 2,000.74             |
| <br>                    |     |     |   |                        |                      |
| <b>08 33 23 13-0622</b> |     |     | <b>13' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)</b><br><i>(08 33 23 13-0561)</i> |                        |                      |
| 08 33 23 13-0623        | EA  |     | 13' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 39,758.13              | 1,686.40             |
| 08 33 23 13-0624        | EA  |     | 13' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 40,761.13              | 1,718.80             |
| 08 33 23 13-0625        | EA  |     | 13' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 41,764.12              | 1,751.19             |
| 08 33 23 13-0626        | EA  |     | 13' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 42,767.12              | 1,783.58             |
| 08 33 23 13-0627        | EA  |     | 13' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 43,770.10              | 1,815.98             |
| 08 33 23 13-0628        | EA  |     | 13' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 44,773.11              | 1,848.37             |
| 08 33 23 13-0629        | EA  |     | 13' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 47,650.76              | 1,880.77             |
| 08 33 23 13-0630        | EA  |     | 13' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 48,656.23              | 1,918.38             |
| 08 33 23 13-0631        | EA  |     | 13' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 49,661.93              | 1,956.75             |
| 08 33 23 13-0632        | EA  |     | 13' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 50,669.20              | 1,995.89             |
| 08 33 23 13-0633        | EA  |     | 13' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 51,678.00              | 2,035.80             |
| <br>                    |     |     |   |                        |                      |
| <b>08 33 23 13-0634</b> |     |     | <b>14' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)</b><br><i>(08 33 23 13-0561)</i> |                        |                      |
| 08 33 23 13-0635        | EA  |     | 14' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 42,635.80              | 1,718.80             |
| 08 33 23 13-0636        | EA  |     | 14' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 43,638.80              | 1,751.19             |
| 08 33 23 13-0637        | EA  |     | 14' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 44,641.79              | 1,783.58             |
| 08 33 23 13-0638        | EA  |     | 14' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 45,643.04              | 1,815.98             |
| 08 33 23 13-0639        | EA  |     | 14' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 46,647.78              | 1,848.37             |
| 08 33 23 13-0640        | EA  |     | 14' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 47,650.76              | 1,880.77             |
| 08 33 23 13-0641        | EA  |     | 14' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 48,645.09              | 1,913.16             |
| 08 33 23 13-0642        | EA  |     | 14' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 49,651.29              | 1,951.43             |
| 08 33 23 13-0643        | EA  |     | 14' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 50,658.32              | 1,990.44             |
| 08 33 23 13-0644        | EA  |     | 14' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 51,666.92              | 2,030.27             |
| 08 33 23 13-0645        | EA  |     | 14' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 52,677.11              | 2,070.86             |
| <br>                    |     |     |   |                        |                      |
| <b>08 33 23 13-0646</b> |     |     | <b>15' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)</b><br><i>(08 33 23 13-0561)</i> |                        |                      |
| 08 33 23 13-0647        | EA  |     | 15' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 43,634.09              | 1,753.17             |
| 08 33 23 13-0648        | EA  |     | 15' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 44,640.38              | 1,786.22             |
| 08 33 23 13-0649        | EA  |     | 15' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 45,642.94              | 1,819.26             |
| 08 33 23 13-0650        | EA  |     | 15' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 46,647.37              | 1,852.30             |
| 08 33 23 13-0651        | EA  |     | 15' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 47,651.80              | 1,885.34             |
| 08 33 23 13-0652        | EA  |     | 15' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 48,656.23              | 1,918.38             |
| 08 33 23 13-0653        | EA  |     | 15' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 49,651.29              | 1,951.43             |
| 08 33 23 13-0654        | EA  |     | 15' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 50,658.32              | 1,990.44             |
| 08 33 23 13-0655        | EA  |     | 15' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 51,666.92              | 2,030.27             |
| 08 33 23 13-0656        | EA  |     | 15' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 52,677.11              | 2,070.86             |
| 08 33 23 13-0657        | EA  |     | 15' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 53,688.92              | 2,112.29             |
| <br>                    |     |     |   |                        |                      |
| <b>08 33 23 13-0658</b> |     |     | <b>16' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)</b><br><i>(08 33 23 13-0561)</i> |                        |                      |
| 08 33 23 13-0659        | EA  |     | 16' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 44,633.19              | 1,788.23             |
| 08 33 23 13-0660        | EA  |     | 16' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                                | 45,640.82              | 1,821.93             |
| 08 33 23 13-0661        | EA  |     | 16' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 46,644.69              | 1,855.64             |
| 08 33 23 13-0662        | EA  |     | 16' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 47,650.43              | 1,889.34             |
| 08 33 23 13-0663        | EA  |     | 16' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 48,656.19              | 1,923.05             |
| 08 33 23 13-0664        | EA  |     | 16' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 49,661.93              | 1,956.75             |
| 08 33 23 13-0665        | EA  |     | 16' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 50,658.32              | 1,990.44             |
| 08 33 23 13-0666        | EA  |     | 16' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 51,666.92              | 2,030.27             |
| 08 33 23 13-0667        | EA  |     | 16' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 52,677.11              | 2,070.86             |
| 08 33 23 13-0668        | EA  |     | 16' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 53,688.92              | 2,112.29             |
| 08 33 23 13-0669        | EA  |     | 16' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....                               | 54,704.27              | 2,154.53             |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 08 33 23 | 13-0670 |     | <b>17' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 23 13-0561)</b>                  |                        |                      |
| 08 33 23 | 13-0671 | EA  | 17' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 45,633.70              | 1,824.00             |
| 08 33 23 | 13-0672 | EA  | 17' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 46,642.67              | 1,858.38             |
| 08 33 23 | 13-0673 | EA  | 17' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 47,647.89              | 1,892.76             |
| 08 33 23 | 13-0674 | EA  | 17' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 48,654.98              | 1,927.13             |
| 08 33 23 | 13-0675 | EA  | 17' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 49,662.10              | 1,961.51             |
| 08 33 23 | 13-0676 | EA  | 17' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 50,669.20              | 1,995.89             |
| 08 33 23 | 13-0677 | EA  | 17' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 51,666.92              | 2,030.27             |
| 08 33 23 | 13-0678 | EA  | 17' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 52,677.11              | 2,070.86             |
| 08 33 23 | 13-0679 | EA  | 17' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 53,688.92              | 2,112.29             |
| 08 33 23 | 13-0680 | EA  | 17' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 54,704.27              | 2,154.53             |
| 08 33 23 | 13-0681 | EA  | 17' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 55,719.42              | 2,197.62             |
| 08 33 23 | 13-0682 |     | <b>18' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 23 13-0561)</b>                  |                        |                      |
| 08 33 23 | 13-0683 | EA  | 18' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 46,843.53              | 1,860.48             |
| 08 33 23 | 13-0684 | EA  | 18' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 47,852.01              | 1,895.54             |
| 08 33 23 | 13-0685 | EA  | 18' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 48,860.47              | 1,930.60             |
| 08 33 23 | 13-0686 | EA  | 18' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 49,867.07              | 1,965.67             |
| 08 33 23 | 13-0687 | EA  | 18' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 50,877.42              | 2,000.74             |
| 08 33 23 | 13-0688 | EA  | 18' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 51,884.02              | 2,035.80             |
| 08 33 23 | 13-0689 | EA  | 18' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 52,885.00              | 2,070.86             |
| 08 33 23 | 13-0690 | EA  | 18' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 53,886.82              | 2,112.29             |
| 08 33 23 | 13-0691 | EA  | 18' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 54,910.29              | 2,154.53             |
| 08 33 23 | 13-0692 | EA  | 18' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 55,925.45              | 2,197.62             |
| 08 33 23 | 13-0693 | EA  | 18' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 56,942.33              | 2,241.58             |
| 08 33 23 | 13-0694 |     | <b>19' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 23 13-0561)</b>                  |                        |                      |
| 08 33 23 | 13-0695 | EA  | 19' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 48,155.96              | 1,897.68             |
| 08 33 23 | 13-0696 | EA  | 19' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 49,167.72              | 1,933.46             |
| 08 33 23 | 13-0697 | EA  | 19' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 50,175.72              | 1,969.23             |
| 08 33 23 | 13-0698 | EA  | 19' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 51,185.60              | 2,004.98             |
| 08 33 23 | 13-0699 | EA  | 19' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 52,195.47              | 2,040.76             |
| 08 33 23 | 13-0700 | EA  | 19' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 53,205.34              | 2,076.52             |
| 08 33 23 | 13-0701 | EA  | 19' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 54,205.86              | 2,112.29             |
| 08 33 23 | 13-0702 | EA  | 19' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 55,219.32              | 2,154.53             |
| 08 33 23 | 13-0703 | EA  | 19' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 56,234.48              | 2,197.62             |
| 08 33 23 | 13-0704 | EA  | 19' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 57,251.36              | 2,241.58             |
| 08 33 23 | 13-0705 | EA  | 19' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 58,271.88              | 2,286.41             |
| 08 33 23 | 13-0706 |     | <b>20' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 23 13-0561)</b>                  |                        |                      |
| 08 33 23 | 13-0707 | EA  | 20' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 49,780.29              | 1,936.02             |
| 08 33 23 | 13-0708 | EA  | 20' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)  | 50,794.20              | 1,971.60             |
| 08 33 23 | 13-0709 | EA  | 20' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 51,803.08              | 2,008.43             |
| 08 33 23 | 13-0710 | EA  | 20' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 52,815.09              | 2,045.28             |
| 08 33 23 | 13-0711 | EA  | 20' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 53,825.85              | 2,082.12             |
| 08 33 23 | 13-0712 | EA  | 20' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 54,836.60              | 2,117.69             |
| 08 33 23 | 13-0713 | EA  | 20' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 55,839.27              | 2,154.53             |
| 08 33 23 | 13-0714 | EA  | 20' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 56,854.63              | 2,197.72             |
| 08 33 23 | 13-0715 | EA  | 20' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 57,871.25              | 2,242.18             |
| 08 33 23 | 13-0716 | EA  | 20' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 58,890.43              | 2,286.65             |
| 08 33 23 | 13-0717 | EA  | 20' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)   | 59,910.87              | 2,332.38             |
| 08 33 23 | 13-0718 |     | <b>Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0560)</b>          |                        |                      |
| 08 33 23 | 13-0719 |     | <b>8' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                        |                      |
| 08 33 23 | 13-0720 | EA  | 8' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                            | 34,864.52              | 1,016.29             |
| 08 33 23 | 13-0721 | EA  | 8' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                            | 35,630.87              | 1,037.88             |
| 08 33 23 | 13-0722 | EA  | 8' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                           | 36,397.23              | 1,059.48             |
| 08 33 23 | 13-0723 | EA  | 8' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                           | 37,160.13              | 1,081.07             |
| 08 33 23 | 13-0724 | EA  | 8' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                           | 37,926.48              | 1,102.67             |
| 08 33 23 | 13-0725 | EA  | 8' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                           | 38,692.84              | 1,124.26             |
| 08 33 23 | 13-0726 | EA  | 8' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                           | 46,687.35              | 1,145.87             |
| 08 33 23 | 13-0727 |     | <b>9' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                        |                      |
| 08 33 23 | 13-0728 | EA  | 9' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                            | 35,630.87              | 1,037.88             |
| 08 33 23 | 13-0729 | EA  | 9' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)                            | 36,397.23              | 1,059.48             |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 33 23 13-0730 EA 9' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 37,160.13                 | 1,081.07                |
| 08 33 23 13-0731 EA 9' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 37,926.48                 | 1,102.67                |
| 08 33 23 13-0732 EA 9' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 38,692.84                 | 1,124.26                |
| 08 33 23 13-0733 EA 9' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 39,459.19                 | 1,145.87                |
| 08 33 23 13-0734 EA 9' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 47,453.71                 | 1,167.46                |
| <b>08 33 23 13-0735 10' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                           |                         |
| 08 33 23 13-0736 EA 10' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 36,397.23                 | 1,059.48                |
| 08 33 23 13-0737 EA 10' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 37,160.13                 | 1,081.07                |
| 08 33 23 13-0738 EA 10' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 37,926.48                 | 1,102.67                |
| 08 33 23 13-0739 EA 10' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 38,692.84                 | 1,124.26                |
| 08 33 23 13-0740 EA 10' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 39,459.19                 | 1,145.87                |
| 08 33 23 13-0741 EA 10' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,225.54                 | 1,167.46                |
| 08 33 23 13-0742 EA 10' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 48,220.06                 | 1,189.06                |
| <b>08 33 23 13-0743 11' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                           |                         |
| 08 33 23 13-0744 EA 11' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 37,160.13                 | 1,081.07                |
| 08 33 23 13-0745 EA 11' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 37,926.48                 | 1,102.67                |
| 08 33 23 13-0746 EA 11' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 38,692.84                 | 1,124.26                |
| 08 33 23 13-0747 EA 11' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 39,459.19                 | 1,145.87                |
| 08 33 23 13-0748 EA 11' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,225.54                 | 1,167.46                |
| 08 33 23 13-0749 EA 11' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,991.90                 | 1,189.06                |
| 08 33 23 13-0750 EA 11' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 48,982.95                 | 1,210.65                |
| <b>08 33 23 13-0751 12' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                           |                         |
| 08 33 23 13-0752 EA 12' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 37,926.48                 | 1,102.67                |
| 08 33 23 13-0753 EA 12' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 38,692.84                 | 1,124.26                |
| 08 33 23 13-0754 EA 12' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 39,459.19                 | 1,145.87                |
| 08 33 23 13-0755 EA 12' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,225.54                 | 1,167.46                |
| 08 33 23 13-0756 EA 12' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,991.90                 | 1,189.06                |
| 08 33 23 13-0757 EA 12' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 41,758.26                 | 1,210.65                |
| 08 33 23 13-0758 EA 12' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 49,749.31                 | 1,232.25                |
| <b>08 33 23 13-0759 13' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                           |                         |
| 08 33 23 13-0760 EA 13' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 38,692.84                 | 1,124.26                |
| 08 33 23 13-0761 EA 13' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 39,459.19                 | 1,145.87                |
| 08 33 23 13-0762 EA 13' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,225.54                 | 1,167.46                |
| 08 33 23 13-0763 EA 13' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 40,991.90                 | 1,189.06                |
| 08 33 23 13-0764 EA 13' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 41,758.26                 | 1,210.65                |
| 08 33 23 13-0765 EA 13' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 42,524.61                 | 1,232.25                |
| 08 33 23 13-0766 EA 13' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 50,515.66                 | 1,253.84                |
| <b>08 33 23 13-0767 14' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)</b> |                           |                         |
| 08 33 23 13-0768 EA 14' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 46,687.35                 | 1,145.87                |
| 08 33 23 13-0769 EA 14' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                    | 47,453.71                 | 1,167.46                |
| 08 33 23 13-0770 EA 14' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 48,220.06                 | 1,189.06                |
| 08 33 23 13-0771 EA 14' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 48,982.95                 | 1,210.65                |
| 08 33 23 13-0772 EA 14' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 49,749.31                 | 1,232.25                |
| 08 33 23 13-0773 EA 14' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 50,515.66                 | 1,253.84                |
| 08 33 23 13-0774 EA 14' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....                   | 51,282.01                 | 1,275.44                |
| <b>08 33 23 13-0775 Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0560)</b>            |                           |                         |
| <b>08 33 23 13-0776 8' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)</b>   |                           |                         |
| 08 33 23 13-0777 EA 8' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                      | 32,386.34                 | 1,016.29                |
| 08 33 23 13-0778 EA 8' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                      | 33,152.70                 | 1,037.88                |
| 08 33 23 13-0779 EA 8' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                     | 33,919.05                 | 1,059.48                |
| 08 33 23 13-0780 EA 8' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                     | 34,683.69                 | 1,081.07                |
| 08 33 23 13-0781 EA 8' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                     | 35,450.04                 | 1,102.67                |
| 08 33 23 13-0782 EA 8' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                  | 36,203.22                 | 1,118.55                |
| 08 33 23 13-0783 EA 8' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....                     | 41,446.75                 | 1,124.26                |
| <b>08 33 23 13-0784 9' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)</b>   |                           |                         |

**08 Openings**  
**08 30 Specialty Doors and Frames**  
**08 33 Coiling Doors and Grilles**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 33 23 13-0785 EA 9' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                    | 33,152.70                 | 1,037.88                |
| 08 33 23 13-0786 EA 9' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                    | 33,919.05                 | 1,059.48                |
| 08 33 23 13-0787 EA 9' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 34,683.69                 | 1,081.07                |
| 08 33 23 13-0788 EA 9' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 35,450.04                 | 1,102.67                |
| 08 33 23 13-0789 EA 9' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 36,214.66                 | 1,124.26                |
| 08 33 23 13-0790 EA 9' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                | 36,964.49                 | 1,137.61                |
| 08 33 23 13-0791 EA 9' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 39,615.27                 | 1,145.87                |
| <b>08 33 23 13-0792 10' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors<br/>(Rytec® Spiral FV®) (08 33 23 13-0775)</b>       |                           |                         |
| 08 33 23 13-0793 EA 10' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 33,919.05                 | 1,059.48                |
| 08 33 23 13-0794 EA 10' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 34,683.69                 | 1,081.07                |
| 08 33 23 13-0795 EA 10' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 35,450.04                 | 1,102.67                |
| 08 33 23 13-0796 EA 10' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 36,214.66                 | 1,124.26                |
| 08 33 23 13-0797 EA 10' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 36,981.01                 | 1,145.87                |
| 08 33 23 13-0798 EA 10' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                               | 37,735.93                 | 1,161.74                |
| 08 33 23 13-0799 EA 10' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 40,596.66                 | 1,167.46                |
| <b>08 33 23 13-0800 11' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors<br/>(Rytec® Spiral FV®) (08 33 23 13-0775)</b>       |                           |                         |
| 08 33 23 13-0801 EA 11' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 34,683.69                 | 1,081.07                |
| 08 33 23 13-0802 EA 11' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 35,450.04                 | 1,102.67                |
| 08 33 23 13-0803 EA 11' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 36,214.66                 | 1,124.26                |
| 08 33 23 13-0804 EA 11' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 36,981.01                 | 1,145.87                |
| 08 33 23 13-0805 EA 11' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 37,747.37                 | 1,167.46                |
| 08 33 23 13-0806 EA 11' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                               | 38,502.29                 | 1,183.34                |
| 08 33 23 13-0807 EA 11' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 41,578.06                 | 1,189.06                |
| <b>08 33 23 13-0808 12' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors<br/>(Rytec® Spiral FV®) (08 33 23 13-0775)</b>       |                           |                         |
| 08 33 23 13-0809 EA 12' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 35,450.04                 | 1,102.67                |
| 08 33 23 13-0810 EA 12' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 36,214.66                 | 1,124.26                |
| 08 33 23 13-0811 EA 12' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 36,981.01                 | 1,145.87                |
| 08 33 23 13-0812 EA 12' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 37,747.37                 | 1,167.46                |
| 08 33 23 13-0813 EA 12' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 38,513.72                 | 1,189.06                |
| 08 33 23 13-0814 EA 12' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                               | 39,266.10                 | 1,203.67                |
| 08 33 23 13-0815 EA 12' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 42,559.46                 | 1,210.65                |
| <b>08 33 23 13-0816 13' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors<br/>(Rytec® Spiral FV®) (08 33 23 13-0775)</b>       |                           |                         |
| 08 33 23 13-0817 EA 13' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 36,214.66                 | 1,124.26                |
| 08 33 23 13-0818 EA 13' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 36,981.01                 | 1,145.87                |
| 08 33 23 13-0819 EA 13' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 37,747.37                 | 1,167.46                |
| 08 33 23 13-0820 EA 13' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 38,513.72                 | 1,189.06                |
| 08 33 23 13-0821 EA 13' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 39,280.08                 | 1,210.65                |
| 08 33 23 13-0822 EA 13' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                               | 40,033.72                 | 1,225.90                |
| 08 33 23 13-0823 EA 13' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 43,540.86                 | 1,232.25                |
| <b>08 33 23 13-0824 14' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors<br/>(Rytec® Spiral FV®) (08 33 23 13-0775)</b>       |                           |                         |
| 08 33 23 13-0825 EA 14' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 41,489.94                 | 1,145.87                |
| 08 33 23 13-0826 EA 14' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                   | 42,471.34                 | 1,167.46                |
| 08 33 23 13-0827 EA 14' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 43,452.73                 | 1,189.06                |
| 08 33 23 13-0828 EA 14' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 44,432.40                 | 1,210.65                |
| 08 33 23 13-0829 EA 14' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 45,415.53                 | 1,232.25                |
| 08 33 23 13-0830 EA 14' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                               | 46,385.48                 | 1,248.13                |
| 08 33 23 13-0831 EA 14' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)                                  | 46,396.92                 | 1,253.84                |
| <b>08 33 23 13-0832 Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors<br/>(Rytec® Spiral SST-HZ®) (08 33 23 13-0560)</b>          |                           |                         |
| <b>08 33 23 13-0833 8' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling<br/>Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)</b> |                           |                         |
| 08 33 23 13-0834 EA 8' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                             | 43,398.33                 | 1,016.29                |
| 08 33 23 13-0835 EA 8' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                             | 44,372.37                 | 1,037.88                |
| 08 33 23 13-0836 EA 8' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                            | 45,344.54                 | 1,059.48                |
| 08 33 23 13-0837 EA 8' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                            | 46,317.79                 | 1,081.07                |
| 08 33 23 13-0838 EA 8' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                            | 48,320.89                 | 1,102.67                |
| 08 33 23 13-0839 EA 8' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                            | 49,809.99                 | 1,124.26                |
| 08 33 23 13-0840 EA 8' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)                            | 51,299.09                 | 1,145.87                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>08 33 23 13-0841</b> 9' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) <small>(08 33 23 13-0832)</small>  |                           |                         |
| 08 33 23 13-0842 EA 9' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                    | 44,372.37                 | 1,037.88                |
| 08 33 23 13-0843 EA 9' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                    | 45,344.54                 | 1,059.48                |
| 08 33 23 13-0844 EA 9' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 46,316.73                 | 1,081.07                |
| 08 33 23 13-0845 EA 9' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 47,805.83                 | 1,102.67                |
| 08 33 23 13-0846 EA 9' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 49,293.06                 | 1,124.26                |
| 08 33 23 13-0847 EA 9' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 50,782.15                 | 1,145.87                |
| 08 33 23 13-0848 EA 9' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 52,280.62                 | 1,167.46                |
| <b>08 33 23 13-0849</b> 10' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) <small>(08 33 23 13-0832)</small> |                           |                         |
| 08 33 23 13-0850 EA 10' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 45,344.54                 | 1,059.48                |
| 08 33 23 13-0851 EA 10' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 46,316.73                 | 1,081.07                |
| 08 33 23 13-0852 EA 10' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 47,288.90                 | 1,102.67                |
| 08 33 23 13-0853 EA 10' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 48,778.00                 | 1,124.26                |
| 08 33 23 13-0854 EA 10' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 50,265.22                 | 1,145.87                |
| 08 33 23 13-0855 EA 10' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 51,754.32                 | 1,167.46                |
| 08 33 23 13-0856 EA 10' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 53,262.15                 | 1,189.06                |
| <b>08 33 23 13-0857</b> 11' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) <small>(08 33 23 13-0832)</small> |                           |                         |
| 08 33 23 13-0858 EA 11' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 46,316.73                 | 1,081.07                |
| 08 33 23 13-0859 EA 11' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 47,288.90                 | 1,102.67                |
| 08 33 23 13-0860 EA 11' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 48,261.06                 | 1,124.26                |
| 08 33 23 13-0861 EA 11' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 49,750.16                 | 1,145.87                |
| 08 33 23 13-0862 EA 11' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 51,239.26                 | 1,167.46                |
| 08 33 23 13-0863 EA 11' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 52,726.49                 | 1,189.06                |
| 08 33 23 13-0864 EA 11' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 54,241.82                 | 1,210.65                |
| <b>08 33 23 13-0865</b> 12' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) <small>(08 33 23 13-0832)</small> |                           |                         |
| 08 33 23 13-0866 EA 12' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 47,288.90                 | 1,102.67                |
| 08 33 23 13-0867 EA 12' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 48,261.06                 | 1,124.26                |
| 08 33 23 13-0868 EA 12' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 49,233.23                 | 1,145.87                |
| 08 33 23 13-0869 EA 12' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 50,722.33                 | 1,167.46                |
| 08 33 23 13-0870 EA 12' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 52,211.43                 | 1,189.06                |
| 08 33 23 13-0871 EA 12' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 53,698.67                 | 1,210.65                |
| 08 33 23 13-0872 EA 12' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 55,225.23                 | 1,232.25                |
| <b>08 33 23 13-0873</b> 13' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) <small>(08 33 23 13-0832)</small> |                           |                         |
| 08 33 23 13-0874 EA 13' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 48,261.06                 | 1,124.26                |
| 08 33 23 13-0875 EA 13' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 49,233.23                 | 1,145.87                |
| 08 33 23 13-0876 EA 13' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 50,205.40                 | 1,167.46                |
| 08 33 23 13-0877 EA 13' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 51,694.50                 | 1,189.06                |
| 08 33 23 13-0878 EA 13' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 53,183.61                 | 1,210.65                |
| 08 33 23 13-0879 EA 13' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 54,672.71                 | 1,232.25                |
| 08 33 23 13-0880 EA 13' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 56,206.76                 | 1,253.84                |
| <b>08 33 23 13-0881</b> 14' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) <small>(08 33 23 13-0832)</small> |                           |                         |
| 08 33 23 13-0882 EA 14' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 49,233.23                 | 1,145.87                |
| 08 33 23 13-0883 EA 14' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                   | 50,205.40                 | 1,167.46                |
| 08 33 23 13-0884 EA 14' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 51,177.57                 | 1,189.06                |
| 08 33 23 13-0885 EA 14' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 52,666.68                 | 1,210.65                |
| 08 33 23 13-0886 EA 14' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 54,155.78                 | 1,232.25                |
| 08 33 23 13-0887 EA 14' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 55,644.88                 | 1,253.84                |
| 08 33 23 13-0888 EA 14' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....                                  | 57,178.93                 | 1,275.44                |
| <b>08 33 23 13-0889</b> Rytec® Spiral® Door Options <small>(08 33 23 13-0560)</small>   |                           |                         |
| 08 33 23 13-0890 EA Insulated Slats For Rytec® Spiral® High-Speed Rolling Doors.....  | 563.62                    |                         |
| Note: Per door price.   |                           |                         |
| 08 33 23 13-0891 EA Up To 13' Wide Doors, Width Of Door, Ventilated Slats For Rytec® Spiral® High-Speed Rolling Doors.....                                  | 381.52                    |                         |
| Note: Maximum of 4 per door.  |                           |                         |
| 08 33 23 13-0892 EA >13' Wide Doors, Width Of Door, Ventilated Slats For Rytec® Spiral® High-Speed Rolling Doors.....                                       | 563.62                    |                         |
| Note: Maximum of 4 per door.  |                           |                         |
| 08 33 23 13-0893 EA Up To 13' Wide Doors, 6" High x Width Of Door, Window Slats For Rytec® Spiral® High-Speed Rolling Doors.....                            | 381.52                    |                         |
| Note: Maximum of 4 per door.  |                           |                         |
| 08 33 23 13-0894 EA >13' Wide Doors, 6" High x Width Of Door, Window Slats For Rytec® Spiral® High-Speed Rolling Doors.....                                 | 563.62                    |                         |
| Note: Maximum of 4 per door.  |                           |                         |
| 08 33 23 13-0895 EA Right Hand Motor Mount For Rytec® Spiral® High-Speed Rolling Doors.....   | 1,063.51                  | 63.51                   |

**08 Openings****08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

| MINOR           | CSI            | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|-----|---|------------------------|----------------------|
| 08 33 23        | 13-0896        | EA  | Up To 13' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors .....   | 3,063.48               | 127.04               |
| 08 33 23        | 13-0897        | EA  | >13' To 16' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors .....   | 5,500.04               | 127.04               |
| 08 33 23        | 13-0898        | EA  | >16' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors .....  | 6,254.42               | 127.04               |
| 08 33 23        | 13-0899        | EA  | Through Wall Brake Release For Rytec® Spiral® High-Speed Rolling Doors .....  | 655.53                 |                      |
| <b>08 33 23</b> | <b>13-0900</b> |     | <b>Activation And Control Box Options For High Speed Doors (08 33 23 13)</b>  |                        |                      |
| 08 33 23        | 13-0901        | EA  | Pull Cord For High-Speed Rolling Doors .....  | 265.78                 | 63.51                |
| 08 33 23        | 13-0902        | EA  | Emergency Stop, Pushbutton Control For High-Speed Rolling Doors .....   | 202.25                 | 31.76                |
| 08 33 23        | 13-0903        | EA  | NEMA 4 Mushroom Remote Pushbutton Control For High-Speed Rolling Doors .....  | 254.27                 | 31.76                |
| 08 33 23        | 13-0904        | EA  | On/Off Selector Switch, Remote Control For High-Speed Rolling Doors .....   | 176.23                 | 31.76                |
| 08 33 23        | 13-0905        | EA  | On/Off Key Switch, Remote Control For High-Speed Rolling Doors .....  | 271.61                 | 31.76                |
| 08 33 23        | 13-0906        | EA  | Keyed Remote Single Pushbutton Control For High-Speed Rolling Doors .....   | 445.03                 | 31.76                |
| 08 33 23        | 13-0907        | EA  | Open/Close/Stop, Remote Pushbutton Control For High-Speed Rolling Doors .....   | 488.39                 | 31.76                |
| 08 33 23        | 13-0908        | EA  | Radio Control For High-Speed Rolling Doors .....  | 754.18                 | 57.17                |
|                 |                |     | Note: Includes one receiver and two transmitters.   |                        |                      |
| 08 33 23        | 13-0909        | EA  | Floor Loop For High-Speed Rolling Doors .....   | 1,008.25               |                      |
|                 |                |     | Note: Excludes sealant.   |                        |                      |
| 08 33 23        | 13-0910        | EA  | Reflective Type Photo Eye For High-Speed Rolling Doors .....  | 649.61                 | 57.17                |
| 08 33 23        | 13-0911        | EA  | Thru-Beam Type Photo Eye For High-Speed Rolling Doors .....   | 849.56                 | 57.17                |
| 08 33 23        | 13-0912        | EA  | Motion Detector For High-Speed Rolling Doors .....  | 735.22                 | 38.11                |
| 08 33 23        | 13-0913        | EA  | Remote Warning Horn For High-Speed Rolling Doors .....  | 508.56                 | 63.51                |
|                 |                |     | Note: Includes wall box and mounting hardware.  |                        |                      |
| 08 33 23        | 13-0914        | EA  | Remote Strobe Light For High-Speed Rolling Doors .....  | 690.66                 | 63.51                |
|                 |                |     | Note: Includes wall box and mounting hardware.  |                        |                      |
| 08 33 23        | 13-0915        | EA  | Remote Warning Horn And Strobe Light For High-Speed Rolling Doors .....   | 786.04                 | 63.51                |
|                 |                |     | Note: Includes wall box and mounting hardware.  |                        |                      |
| 08 33 23        | 13-0916        | EA  | Red And Green Red Light For High-Speed Rolling Doors .....  | 976.80                 | 63.51                |
|                 |                |     | Note: Includes mounting hardware.   |                        |                      |
| <b>08 33 26</b> |                |     | <b>Overhead Coiling Grilles (08 33)</b>   |                        |                      |
|                 |                |     | Note: Includes curtains, guides, counterbalance mechanisms, hardware, operators, frame, supports and/or trim as required.<br>Excludes lifting equipment (forklift or scissor lift) where required. See CSI section 01 22 23 00-0964 for forklift. |                        |                      |
| <b>08 33 26</b> | <b>00-0001</b> |     | <b>Galvanized Steel Overhead Coiling Grilles (Width x Height) (08 33 26)</b>  |                        |                      |
| 08 33 26        | 00-0002        | EA  | 4' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....   | 2,559.63               | 236.89               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 282.50                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 216.43                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 292.97                 |                      |
| 08 33 26        | 00-0003        | EA  | 6' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....   | 2,895.67               | 236.89               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 332.91                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 324.65                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 396.77                 |                      |
| 08 33 26        | 00-0004        | EA  | 8' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....   | 3,486.89               | 296.12               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 396.00                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 432.85                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 500.56                 |                      |
| 08 33 26        | 00-0005        | EA  | 12' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 3,971.52               | 296.12               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 468.69                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 436.11                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 708.16                 |                      |
| 08 33 26        | 00-0006        | EA  | 16' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 5,478.02               | 473.79               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 618.32                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 865.71                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 998.67                 |                      |
| 08 33 26        | 00-0007        | EA  | 20' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 6,808.43               | 592.24               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 767.96                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 1,082.13               |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 1,289.17               |                      |
| 08 33 26        | 00-0008        | EA  | 24' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 8,576.52               | 710.68               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 982.14                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 1,298.56               |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 1,450.15               |                      |
| 08 33 26        | 00-0009        | EA  | 30' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 10,456.40              | 868.62               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 1,197.39               |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 1,504.03               |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 1,581.58               |                      |
| 08 33 26        | 00-0010        | EA  | 4' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 2,803.19               | 236.89               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 319.03                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 270.53                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 348.05                 |                      |
| 08 33 26        | 00-0011        | EA  | 6' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 3,248.56               | 236.89               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 385.84                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 405.79                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 494.25                 |                      |
| 08 33 26        | 00-0012        | EA  | 8' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....  | 3,877.98               | 296.12               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 455.04                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 541.07                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 640.45                 |                      |
| 08 33 26        | 00-0013        | EA  | 12' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....   | 4,484.91               | 296.12               |
|                 |                |     | For Lexan Lattice Pattern, Add  | 546.08                 |                      |
|                 |                |     | For Aluminum With Clear Or Anodized Bronze Finish, Add  | 811.60                 |                      |
|                 |                |     | For Staggered Brick Pattern, Add  | 932.85                 |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                        | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|---|----------------------|
| 08 33 26 00-0014 | EA    |     |     | 16' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 6,152.58<br>719.51<br>1,082.13<br>1,286.28    | 473.79               |
| 08 33 26 00-0015 | EA    |     |     | 20' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 7,641.60<br>892.93<br>1,352.66<br>1,639.69    | 592.24               |
| 08 33 26 00-0016 | EA    |     |     | 24' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 9,583.17<br>1,133.14<br>1,623.40<br>1,898.89  | 710.68               |
| 08 33 26 00-0017 | EA    |     |     | 30' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 12,010.77<br>1,430.54<br>1,900.77<br>2,127.18 | 868.62               |
| 08 33 26 00-0018 | EA    |     |     | 4' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 3,082.12<br>360.87<br>324.65<br>402.33        | 236.89               |
| 08 33 26 00-0019 | EA    |     |     | 6' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 3,162.85<br>372.98<br>486.96<br>590.10        | 236.89               |
| 08 33 26 00-0020 | EA    |     |     | 8' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 3,853.54<br>451.00<br>649.27<br>777.87        | 296.12               |
| 08 33 26 00-0021 | EA    |     |     | 12' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 5,067.20<br>633.05<br>973.88<br>1,153.40      | 296.12               |
| 08 33 26 00-0022 | EA    |     |     | 16' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 7,106.14<br>862.54<br>1,298.55<br>1,603.57    | 473.79               |
| 08 33 26 00-0023 | EA    |     |     | 20' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 8,968.97<br>1,092.04<br>1,623.19<br>2,053.73  | 592.24               |
| 08 33 26 00-0024 | EA    |     |     | 24' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 10,873.14<br>1,326.64<br>1,947.84<br>2,171.53 | 710.68               |
| 08 33 26 00-0025 | EA    |     |     | 30' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 13,546.50<br>1,660.90<br>2,257.26<br>2,365.91 | 868.62               |
| 08 33 26 00-0026 | EA    |     |     | 4' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 3,580.99<br>435.70<br>378.60<br>744.16        | 236.89               |
| 08 33 26 00-0027 | EA    |     |     | 6' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 4,125.66<br>517.40<br>568.02<br>913.74        | 236.89               |
| 08 33 26 00-0028 | EA    |     |     | 8' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i>  | 4,844.40<br>600.00<br>757.43<br>1,063.97      | 296.12               |
| 08 33 26 00-0029 | EA    |     |     | 12' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 5,988.57<br>771.63<br>1,136.24<br>1,349.20    | 296.12               |
| 08 33 26 00-0030 | EA    |     |     | 16' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 8,057.53<br>1,005.25<br>1,514.99<br>1,804.98  | 473.79               |
| 08 33 26 00-0031 | EA    |     |     | 20' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 9,947.88<br>1,238.87<br>1,893.72<br>2,260.76  | 592.24               |
| 08 33 26 00-0032 | EA    |     |     | 24' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 11,889.50<br>1,479.09<br>2,272.47<br>2,563.95 | 710.68               |
| 08 33 26 00-0033 | EA    |     |     | 30' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift .....<br><i>For Lexan Lattice Pattern, Add</i><br><i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i><br><i>For Staggered Brick Pattern, Add</i> | 15,202.27<br>1,909.27<br>2,682.68<br>2,929.44 | 868.62               |
| 08 33 26 00-0034 |       |     |     | <b>Coiling Grilles Accessories</b> <small>(08 33 26)</small>   |   |                      |
| 08 33 26 00-0035 | LF    |     |     | For Overhead Framed Rolling Grille Supports.....   | 117.52  |                      |





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**08 33 36 Side Coiling Grilles** (08 33)

| 08 33 36 00-0001 | Galvanized Steel Side Coiling Grilles (Width x Height)                 | (08 33 36) |          |  |
|------------------|--|------------|----------|--|
| 08 33 36 00-0002 | EA 12' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated  | 4,400.75   | 662.41   |  |
|                  | For Lexan Lattice Pattern, Add   | 376.20     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 649.28     |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 708.16     |          |  |
| 08 33 36 00-0003 | EA 18' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated  | 6,113.61   | 850.90   |  |
|                  | For Lexan Lattice Pattern, Add   | 552.36     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 995.93     |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,134.24   |          |  |
| 08 33 36 00-0004 | EA 24' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated  | 7,902.02   | 1,072.91 |  |
|                  | For Lexan Lattice Pattern, Add   | 725.49     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,298.56   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,450.15   |          |  |
| 08 33 36 00-0005 | EA 30' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated  | 9,431.32   | 1,184.47 |  |
|                  | For Lexan Lattice Pattern, Add   | 906.86     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,504.03   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,581.58   |          |  |
| 08 33 36 00-0006 | EA 12' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated | 5,290.56   | 755.24   |  |
|                  | For Lexan Lattice Pattern, Add   | 469.92     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 811.60     |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 932.85     |          |  |
| 08 33 36 00-0007 | EA 18' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated | 7,378.80   | 970.03   |  |
|                  | For Lexan Lattice Pattern, Add   | 690.87     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,195.28   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,416.52   |          |  |
| 08 33 36 00-0008 | EA 24' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated | 9,430.48   | 1,222.72 |  |
|                  | For Lexan Lattice Pattern, Add   | 890.38     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,623.40   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,898.89   |          |  |
| 08 33 36 00-0009 | EA 30' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated | 11,428.87  | 1,350.30 |  |
|                  | For Lexan Lattice Pattern, Add   | 1,133.25   |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,900.77   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 2,127.18   |          |  |
| 08 33 36 00-0010 | EA 12' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated | 6,191.66   | 850.90   |  |
|                  | For Lexan Lattice Pattern, Add   | 564.07     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 973.88     |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,153.40   |          |  |
| 08 33 36 00-0011 | EA 18' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated | 8,651.66   | 1,092.88 |  |
|                  | For Lexan Lattice Pattern, Add   | 827.72     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,437.96   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,758.64   |          |  |
| 08 33 36 00-0012 | EA 24' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated | 11,171.83  | 1,377.93 |  |
|                  | For Lexan Lattice Pattern, Add   | 1,088.24   |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,947.84   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 2,171.53   |          |  |
| 08 33 36 00-0013 | EA 30' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated | 13,414.07  | 1,520.08 |  |
|                  | For Lexan Lattice Pattern, Add   | 1,360.30   |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 2,257.26   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 2,365.91   |          |  |
| 08 33 36 00-0014 | EA 12' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated | 7,082.80   | 940.81   |  |
|                  | For Lexan Lattice Pattern, Add   | 659.54     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,136.24   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,349.20   |          |  |
| 08 33 36 00-0015 | EA 18' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated | 9,923.19   | 1,208.16 |  |
|                  | For Lexan Lattice Pattern, Add   | 966.22     |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 1,643.41   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 1,953.98   |          |  |
| 08 33 36 00-0016 | EA 24' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated | 12,802.80  | 1,523.23 |  |
|                  | For Lexan Lattice Pattern, Add   | 1,269.61   |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 2,272.47   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 2,563.95   |          |  |
| 08 33 36 00-0017 | EA 30' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated | 15,378.97  | 1,681.95 |  |
|                  | For Lexan Lattice Pattern, Add   | 1,586.19   |          |  |
|                  | For Aluminum With Clear Or Anodized Bronze Finish, Add                 | 2,682.68   |          |  |
|                  | For Staggered Brick Pattern, Add                                       | 2,929.44   |          |  |

**08 33 43 Overhead Coiling Smoke Curtains** (08 33)

| 08 33 43 00-0001 | Elevator Smoke Guard   | (08 33 43) |        |  |
|------------------|--|------------|--------|--|
| 08 33 43 00-0002 | EA Elevator Smoke Guard, 55" Width Housing (Smoke Guard 400) | 15,099.93  | 662.41 |  |
| 08 33 43 00-0003 | EA Elevator Smoke Guard, 64" Width Housing (Smoke Guard 400) | 15,659.03  | 662.41 |  |
| 08 33 43 00-0004 | EA Elevator Smoke Guard, 73" Width Housing (Smoke Guard 400) | 16,218.13  | 662.41 |  |

**08 34 Special Function Doors** (08 30)

**08 34 13 Cold Storage Doors** (08 34)

| 08 34 13 00-0001 | Vertical Sliding Cold Storage Doors   | (08 34 13) |          |  |
|------------------|---|------------|----------|--|
|                  | Note: Doors to be filled with foamed-in-place polyurethane.   |            |          |  |
| 08 34 13 00-0002 | EA 7'-0" x 8'-0" Single Leaf Vertical Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane | 8,095.54   | 1,206.59 |  |
|                  | For Adjusting Height Of Door To Fit Opening <7' Height, Add   | 602.12     |          |  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 34 13 00-0003 EA 7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" Foam In Place (FIP) Polyurethane .....<br><i>For Adjusting Height Of Door To Fit Opening &lt;7' Height, Add</i> | 10,379.73<br>765.89       | 1,531.78                |
| <b>08 34 13 00-0004 Horizontal Sliding Cold Storage Doors (08 34 13)</b>   |                           |                         |
| Note: Doors to be filled with foamed-in-place polyurethane.  |                           |                         |
| 08 34 13 00-0005 EA 6'-0" x 9'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane .....   | 6,500.84                  | 963.64                  |
| 08 34 13 00-0006 EA 7'-0" x 9'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane .....   | 7,328.05                  | 1,086.65                |
| 08 34 13 00-0007 EA 7'-0" x 9'-0" Bi-Parting Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane .....  | 9,482.10                  | 1,432.06                |
| 08 34 13 00-0008 EA 5'-0" x 7'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane .....   | 5,682.30                  | 875.56                  |
| <b>08 34 13 00-0009 Swinging Horizontal Hinged Cold Storage Doors (08 34 13)</b>   |                           |                         |
| Note: Doors to be filled with foamed-in-place polyurethane.  |                           |                         |
| 08 34 13 00-0010 EA 3'-0" x 7'-0" Swinging Cold Storage Door, Filled With 4" Foam In Place (FIP) Polyurethane.....   | 3,292.21                  | 569.51                  |
| <b>08 34 16 Hangar Doors (08 34)</b>   |                           |                         |
| 08 34 16 00-0001 SF 70' To 120' Wide X To 20' High Hangar Door 25' Panels .....<br>Note: Includes motorized opener and special hardware.   | 72.61                     | 18.53                   |
| 08 34 16 00-0002 SF 120' To 180' Wide X To 20' High Hangar Door 25' Panels .....<br>Note: Includes motorized opener and special hardware.  | 65.21                     | 18.53                   |
| 08 34 16 00-0003 SF 120' To 180' Wide X 20-40' High Hangar Door 25' Panels .....<br>Note: Includes motorized opener and special hardware.  | 66.88                     | 3.97                    |
| 08 34 16 00-0004 SF 120' To 180' Wide X 40-60' High Hangar Door 25' Panels .....<br>Note: Includes motorized opener and special hardware.  | 70.32                     | 2.64                    |
| 08 34 16 00-0005 SF 120' To 180' Wide X 60-80' High Hangar Door 25' Panels .....<br>Note: Includes motorized opener and special hardware.  | 74.62                     | 2.64                    |
| 08 34 16 00-0006 SF 120' To 180' Wide x >80' High Hangar Door 25' Panels .....<br>Note: Includes motorized opener and special hardware.  | 117.19                    | 2.64                    |
| <b>08 34 23 Sidewalk and Basement Doors (08 34)</b>  |                           |                         |
| <b>08 34 23 00-0001 Drainage Doors (08 34 23)</b>  |                           |                         |
| <b>08 34 23 00-0002 Single Leaf Aluminum Drainage Doors (08 34 23 00-0001)</b>   |                           |                         |
| Note: Bilco - J Series.  |                           |                         |
| 08 34 23 00-0003 EA 2' x 2' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 1,313.62                  | 226.25                  |
| 08 34 23 00-0004 EA 2'-6" x 2'-6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 1,607.28                  | 236.41                  |
| 08 34 23 00-0005 EA 3' x 2'-6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....   | 1,704.94                  | 241.49                  |
| 08 34 23 00-0006 EA 3' x 3' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 1,876.35                  | 246.57                  |
| 08 34 23 00-0007 EA 3'-6" x 3'-6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 2,181.99                  | 259.28                  |
| 08 34 23 00-0008 EA 2'-6" x 4' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....   | 2,222.23                  | 253.31                  |
| 08 34 23 00-0009 EA 3' x 4' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 2,468.58                  | 259.28                  |
| 08 34 23 00-0010 EA 2'-6" x 5' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....   | 2,575.74                  | 265.25                  |
| 08 34 23 00-0011 EA 3' x 5' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 2,822.12                  | 271.22                  |
| 08 34 23 00-0012 EA 3' x 6' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 3,270.77                  | 286.47                  |
| <b>08 34 23 00-0013 Double Leaf Aluminum Drainage Doors (08 34 23 00-0001)</b>   |                           |                         |
| Note: Bilco - JD Series.   |                           |                         |
| 08 34 23 00-0014 EA 4' x 2'-6" Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....   | 2,631.65                  | 253.31                  |
| 08 34 23 00-0015 EA 4' x 4' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 2,764.80                  | 271.22                  |
| 08 34 23 00-0016 EA 4' x 6' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 3,498.36                  | 301.71                  |
| 08 34 23 00-0017 EA 5' x 5' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door .....  | 3,596.63                  | 301.71                  |
| <b>08 34 23 00-0018 Single Leaf Aluminum H2O Drainage Doors (08 34 23 00-0001)</b>   |                           |                         |
| Note: Bilco - J H2O Series.  |                           |                         |
| 08 34 23 00-0019 EA 2' x 2' Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 2,075.14                  | 226.25                  |
| 08 34 23 00-0020 EA 2'-6" x 2'-6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 2,417.93                  | 236.41                  |
| 08 34 23 00-0021 EA 3' x 2' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....   | 2,630.28                  | 241.49                  |
| 08 34 23 00-0022 EA 3' x 3' Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 2,973.63                  | 246.57                  |
| 08 34 23 00-0023 EA 3'-6" x 3'-6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 3,434.86                  | 259.28                  |
| <b>08 34 23 00-0024 Double Leaf Aluminum H2O Drainage Doors (08 34 23 00-0001)</b>   |                           |                         |
| Note: Bilco - JD H2O Series.   |                           |                         |
| 08 34 23 00-0025 EA 4' x 2'-6" Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....   | 3,434.11                  | 253.31                  |
| 08 34 23 00-0026 EA 4' x 4' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 4,582.62                  | 271.22                  |
| 08 34 23 00-0027 EA 4' x 6' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 6,503.51                  | 301.71                  |
| 08 34 23 00-0028 EA 5' x 5' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door .....  | 6,126.84                  | 301.71                  |
| <b>08 34 23 00-0029 Single Leaf Steel Drainage Doors (08 34 23 00-0001)</b>  |                           |                         |
| Note: Bilco - J Series.  |                           |                         |
| 08 34 23 00-0030 EA 2' x 2' Single Leaf Steel Floor, Vault Or Sidewalk Door .....  | 1,674.96                  | 226.25                  |
| 08 34 23 00-0031 EA 2'-6" x 2'-6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 1,759.47                  | 236.41                  |
| 08 34 23 00-0032 EA 3' x 2'-6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....  | 1,955.05                  | 241.49                  |
| 08 34 23 00-0033 EA 3' x 3' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 2,160.58                  | 246.57                  |
| 08 34 23 00-0034 EA 3'-6" x 3'-6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 2,506.15                  | 259.28                  |

|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 34</b> | <b>Special Function Doors</b>     |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 34 23 00-0035 EA 2'-6" x 4' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....  | 2,388.42                  | 253.31                  |
| 08 34 23 00-0036 EA 3' x 4' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 2,713.94                  | 259.28                  |
| 08 34 23 00-0037 EA 2'-6" x 5' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....  | 2,703.05                  | 265.25                  |
| 08 34 23 00-0038 EA 3' x 5' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 3,008.79                  | 271.22                  |
| 08 34 23 00-0039 EA 3' x 6' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 3,209.75                  | 286.47                  |
| <b>08 34 23 00-0040 Double Leaf Steel Drainage Doors</b> (08 34 23 00-0001)<br>Note: Bilco - JD Series.  |                           |                         |
| 08 34 23 00-0041 EA 4' x 2'-6" Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....  | 2,922.73                  | 253.31                  |
| 08 34 23 00-0042 EA 4' x 4' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 3,068.16                  | 271.22                  |
| 08 34 23 00-0043 EA 4' x 6' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 3,816.41                  | 301.71                  |
| 08 34 23 00-0044 EA 5' x 5' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door .....   | 3,925.25                  | 301.71                  |
| <b>08 34 23 00-0045 Single Leaf Steel H2O Drainage Doors</b> (08 34 23 00-0001)<br>Note: Bilco - J H2O Series.   |                           |                         |
| 08 34 23 00-0046 EA 2' x 2' Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 2,822.72                  | 226.25                  |
| 08 34 23 00-0047 EA 2'-6" x 2'-6" Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 2,986.39                  | 236.41                  |
| 08 34 23 00-0048 EA 3' x 2'-6" Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....  | 3,092.97                  | 241.49                  |
| 08 34 23 00-0049 EA 3' x 3' Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 3,634.90                  | 246.57                  |
| 08 34 23 00-0050 EA 3'-6" x 3'-6" Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 4,277.32                  | 259.28                  |
| <b>08 34 23 00-0051 Double Leaf Steel H2O Drainage Doors</b> (08 34 23 00-0001)<br>Note: Bilco - JD H2O Series.  |                           |                         |
| 08 34 23 00-0052 EA 4' x 2'-6" Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....  | 4,703.74                  | 253.31                  |
| 08 34 23 00-0053 EA 4' x 4' Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 5,254.84                  | 271.22                  |
| 08 34 23 00-0054 EA 4' x 6' Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 7,784.10                  | 301.71                  |
| 08 34 23 00-0055 EA 5' x 5' Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door .....   | 7,586.21                  | 301.71                  |
| <b>08 34 23 00-0056 Single Leaf Aluminum Drainage Door</b> (08 34 23 00-0001)<br>Note: Bilco - J-R Series (Odor Resistant).  |                           |                         |
| 08 34 23 00-0057 EA 2' x 2' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant .....  | 3,061.06                  | 226.25                  |
| 08 34 23 00-0058 EA 2'-6" x 2'-6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant .....  | 3,674.86                  | 236.41                  |
| 08 34 23 00-0059 EA 3' x 2'-6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant .....   | 3,909.64                  | 241.49                  |
| 08 34 23 00-0060 EA 3' x 3' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant .....  | 4,148.83                  | 246.57                  |
| 08 34 23 00-0061 EA 3'-6" x 3'-6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant .....  | 4,718.37                  | 259.28                  |
| <b>08 34 23 00-0062 Non-Drainage Doors</b> (08 34 23)<br><b>08 34 23 00-0063 Single Leaf Aluminum Non-Drainage Doors</b> (08 34 23 00-0062)<br>Note: Bilco - Q Series. |                           |                         |
| 08 34 23 00-0064 EA 2' x 2' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,264.60                  | 226.25                  |
| 08 34 23 00-0065 EA 2'-6" x 2'-6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,525.39                  | 236.41                  |
| 08 34 23 00-0066 EA 2'-6" x 3' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....   | 1,631.34                  | 241.49                  |
| 08 34 23 00-0067 EA 3' x 3' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,696.24                  | 246.57                  |
| 08 34 23 00-0068 EA 3'-6" x 3'-6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 2,124.67                  | 259.28                  |
| 08 34 23 00-0069 EA 2'-6" x 4' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....   | 1,919.31                  | 253.31                  |
| 08 34 23 00-0070 EA 3' x 4' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 2,141.05                  | 259.28                  |
| 08 34 23 00-0071 EA 2'-6" x 5' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....   | 2,395.45                  | 265.25                  |
| 08 34 23 00-0072 EA 2'-6" x 6' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....   | 2,535.62                  | 271.22                  |
| 08 34 23 00-0073 EA 3' x 6' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 2,878.08                  | 286.47                  |
| <b>08 34 23 00-0074 Single Leaf Aluminum Non-Drainage Doors</b> (08 34 23 00-0062)<br>Note: Bilco - K Series.  |                           |                         |
| 08 34 23 00-0075 EA 2' x 2' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,043.51                  | 226.25                  |
| 08 34 23 00-0076 EA 2'-6" x 2'-6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,246.99                  | 236.41                  |
| 08 34 23 00-0077 EA 3' x 2'-6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....   | 1,377.50                  | 241.49                  |
| 08 34 23 00-0078 EA 3' x 3' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,466.97                  | 246.57                  |
| 08 34 23 00-0079 EA 3'-6" x 3'-6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,698.87                  | 259.28                  |
| <b>08 34 23 00-0080 Double Leaf Aluminum Non-Drainage Doors</b> (08 34 23 00-0062)<br>Note: Bilco - QD Series.   |                           |                         |
| 08 34 23 00-0081 EA 4' x 2' 6" Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....   | 2,426.99                  | 253.31                  |
| <b>08 34 23 00-0082 Double Leaf Aluminum Non-Drainage Doors</b> (08 34 23 00-0062)<br>Note: Bilco - KD Series.   |                           |                         |
| 08 34 23 00-0083 EA 4' x 4' Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 2,330.91                  | 271.22                  |
| 08 34 23 00-0084 EA 4' x 6' Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 3,261.02                  | 301.71                  |
| 08 34 23 00-0085 EA 5' x 5' Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....  | 3,326.53                  | 301.71                  |
| <b>08 34 23 00-0086 Single Leaf Aluminum Non-Drainage Doors</b> (08 34 23 00-0062)<br>Note: Bilco - T Series.  |                           |                         |
| 08 34 23 00-0087 EA 2' x 2' Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering .....  | 1,141.77                  | 226.25                  |
| 08 34 23 00-0088 EA 2'-6" x 2'-6" Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering .....  | 1,328.87                  | 236.41                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 34 23 00-0089 EA 3' x 2'-6" Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering .....                              | 1,418.44                  | 241.49                  |
| 08 34 23 00-0090 EA 3' x 3' Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering .....                                 | 1,548.85                  | 246.57                  |
| 08 34 23 00-0091 EA 3'-6" x 3'-6" Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering.....                            | 1,805.32                  | 259.28                  |
| <b>08 34 23 00-0092 Double Leaf Aluminum Non-Drainage Doors</b> (08 34 23 00-0062)  |                           |                         |
| Note: Bilco - TD Series.  |                           |                         |
| 08 34 23 00-0093 EA 4' x 4' Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering.....                                  | 2,470.12                  | 271.22                  |
| 08 34 23 00-0094 EA 4' x 6' Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering.....                                  | 3,432.98                  | 301.71                  |
| 08 34 23 00-0095 EA 5' x 5' Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering.....                                  | 3,482.11                  | 301.71                  |
| <b>08 34 23 00-0096 Single Leaf Steel Non-Drainage Doors</b> (08 34 23 00-0062)   |                           |                         |
| Note: Bilco - Q Series.   |                           |                         |
| 08 34 23 00-0097 EA 2' x 2' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,160.55                  | 226.25                  |
| 08 34 23 00-0098 EA 2'-6" x 2'-6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door .....                                      | 1,294.43                  | 236.41                  |
| 08 34 23 00-0099 EA 3' x 2'-6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door.....  | 1,490.54                  | 241.49                  |
| 08 34 23 00-0100 EA 3' x 3' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door .....  | 1,537.27                  | 246.57                  |
| 08 34 23 00-0101 EA 3'-6" x 3'-6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door .....                                      | 2,374.64                  | 259.28                  |
| 08 34 23 00-0102 EA 2'-6" x 4' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door.....  | 1,745.06                  | 246.57                  |
| <b>08 34 23 00-0103 Double Leaf Steel Non-Drainage Doors</b> (08 34 23 00-0062)   |                           |                         |
| Note: Bilco - QD Series.  |                           |                         |
| 08 34 23 00-0104 EA 4' x 2'-6" Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door .....                                      | 2,299.37                  | 253.31                  |
| <b>08 34 23 00-0105 Basement Doors</b> (08 34 23)   |                           |                         |
| Note: 12 gauge primed steel, center opening, includes assembly and installation hardware.   |                           |                         |
| 08 34 23 00-0106 EA 45-1/4" Wide x 65-1/4" Long, Sloped Wall Basement Door, Factory Primed Metal .....                                    | 1,620.73                  | 285.83                  |
| 08 34 23 00-0107 EA 30" High x 47" Wide x 58" Long, Basement Door .....   | 1,333.60                  | 216.59                  |
| 08 34 23 00-0108 EA 22" High x 51" Wide x 64" Long, Basement Door .....   | 1,390.66                  | 238.19                  |
| 08 34 23 00-0109 EA 19-1/2" High x 55" Wide x 72" Long, Basement Door.....  | 1,485.78                  | 254.07                  |
| 08 34 23 00-0110 EA 52" High x 51" Wide x 43-1/4" Long, Basement Door.....  | 1,646.24                  | 285.83                  |
| <b>08 34 49 Radiation Shielding Doors and Frames</b> (08 34)  |                           |                         |
| <b>08 34 49 13 Neutron Shielding Doors and Frames</b> (08 34 49)  |                           |                         |
| <b>08 34 49 13-0001 Lead Lined Doors And Frames</b> (08 34 49 13)   |                           |                         |
| 08 34 49 13-0002 SF 1/16" Thick Laminated Lead In Wood Door .....   | 142.78                    | 12.71                   |
| 08 34 49 13-0003 SF 1/8" Thick Laminated Lead In Wood Door .....  | 176.09                    | 12.71                   |
| 08 34 49 13-0004 LF 1/16" Thick Lead Lined Door Frame .....   | 156.01                    | 12.71                   |
| 08 34 49 13-0005 LF 1/8" Thick Lead Lined Door Frame .....  | 167.11                    | 12.71                   |
| <b>08 34 53 Security Doors and Frames</b> (08 34)   |                           |                         |
| <b>08 34 53 00-0001 Metal Security Doors, Bullet Resistant</b> (08 34 53)   |                           |                         |
| Note: Includes door, frame, hardware hinges, lockset and cylinder, all UL 753 Listed.   |                           |                         |
| 08 34 53 00-0002 SF Metal Security Door .....   | 78.37                     | 9.25                    |
| 08 34 53 00-0003 EA Up To 3' x 7' (.38 caliber) Medium-Small Arms Metal Security Door .....   | 3,209.45                  | 461.95                  |
| 08 34 53 00-0004 EA Up To 3' x 7' (.44 caliber) Super-Small Arms Metal Security Door.....   | 3,805.45                  | 490.37                  |
| <b>08 34 53 00-0005 Metal Security Doors</b> (08 34 53)   |                           |                         |
| Note: Includes standard pitcher handle latch, pneumatic closure, hinges and baked enamel finish.  |                           |                         |
| 08 34 53 00-0006 EA Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-501-28-O) .....  | 960.74                    | 84.60                   |
| Note: Top and bottom section are #12 mesh 0.028" stainless steel wire cloth with a bottom kick plate.                                     |                           |                         |
| 08 34 53 00-0007 EA Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-503-28-O) .....  | 960.74                    | 84.60                   |
| Note: Top section is #12 mesh 0.028" stainless steel wire cloth and bottom section is a double kick panel.                                |                           |                         |
| 08 34 53 00-0008 EA Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-504-28-O) .....  | 1,356.52                  | 84.60                   |
| Note: Top section includes 1/8" tempered sash unit and #12 mesh 0.028" stainless steel wire cloth. Bottom section is a double kick panel. |                           |                         |
| <b>08 34 56 Security Gates</b> (08 34)  |                           |                         |
| <b>08 34 56 00-0001 Pivoting Double Folding Gate</b> (08 34 56)   |                           |                         |
| Note: Includes locking bar, solid steel casters and galvanized finish. Excludes padlock.  |                           |                         |
| 08 34 56 00-0002 EA 6' To 8' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....                            | 1,136.77                  | 241.87                  |
| 08 34 56 00-0003 EA 8' To 10' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....                           | 1,276.38                  | 272.10                  |
| 08 34 56 00-0004 EA 8' To 10' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate .....                              | 1,376.44                  | 302.34                  |
| 08 34 56 00-0005 EA 8' To 10' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....                               | 1,516.04                  | 332.57                  |
| 08 34 56 00-0006 EA 10' To 12' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....                          | 1,281.18                  | 244.89                  |
| 08 34 56 00-0007 EA 10' To 12' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....                              | 1,381.46                  | 275.12                  |
| 08 34 56 00-0008 EA 10' To 12' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....                          | 1,514.96                  | 305.36                  |
| 08 34 56 00-0009 EA 10' To 12' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....                              | 1,621.73                  | 335.59                  |
| 08 34 56 00-0010 EA 12' To 14' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate.....                              | 1,346.56                  | 247.91                  |
| 08 34 56 00-0011 EA 12' To 14' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....                          | 1,446.52                  | 278.15                  |
| 08 34 56 00-0012 EA 12' To 14' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....                              | 1,526.33                  | 293.27                  |
| 08 34 56 00-0013 EA 12' To 14' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....                          | 1,606.46                  | 308.38                  |

|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 34</b> | <b>Special Function Doors</b>     |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 34 56 00-0014 EA 12' To 14' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....                  | 1,716.42                  | 338.62                  |
| 08 34 56 00-0015 EA 14' To 16' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate.....                  | 1,471.46                  | 250.93                  |
| 08 34 56 00-0016 EA 14' To 16' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....              | 1,571.07                  | 281.17                  |
| 08 34 56 00-0017 EA 14' To 16' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....                  | 1,660.70                  | 296.29                  |
| 08 34 56 00-0018 EA 14' To 16' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....              | 1,771.13                  | 311.40                  |
| 08 34 56 00-0019 EA 14' To 16' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....                  | 1,929.96                  | 341.64                  |
| 08 34 56 00-0020 EA 16' To 18' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate.....                  | 1,661.82                  | 256.99                  |
| 08 34 56 00-0021 EA 16' To 18' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....              | 1,787.15                  | 290.24                  |
| 08 34 56 00-0022 EA 16' To 18' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....                  | 1,922.30                  | 308.38                  |
| 08 34 56 00-0023 EA 16' To 18' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....              | 2,001.10                  | 317.45                  |
| <b>08 34 56 00-0024 Pivoting Single Folding Gate (08 34 56)</b>   |                           |                         |
| Note: Includes locking bar, solid steel casters and galvanized finish. Excludes padlock.                                      |                           |                         |
| 08 34 56 00-0025 EA 5' To 6' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 773.99                    | 169.30                  |
| 08 34 56 00-0026 EA 5' To 6' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate.....                | 825.65                    | 175.36                  |
| 08 34 56 00-0027 EA 5' To 6' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 877.32                    | 181.40                  |
| 08 34 56 00-0028 EA 5' To 6' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate.....                | 941.11                    | 193.49                  |
| 08 34 56 00-0029 EA 5' To 6' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 985.08                    | 205.58                  |
| 08 34 56 00-0030 EA 6' To 7' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 825.47                    | 175.36                  |
| 08 34 56 00-0031 EA 6' To 7' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate.....                | 877.40                    | 181.40                  |
| 08 34 56 00-0032 EA 6' To 7' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 929.08                    | 187.45                  |
| 08 34 56 00-0033 EA 6' To 7' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate.....                | 992.79                    | 199.54                  |
| 08 34 56 00-0034 EA 6' To 7' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 1,037.04                  | 211.63                  |
| 08 34 56 00-0035 EA 7' To 8' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 896.92                    | 181.40                  |
| 08 34 56 00-0036 EA 7' To 8' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate.....                | 948.87                    | 187.45                  |
| 08 34 56 00-0037 EA 7' To 8' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 1,000.45                  | 193.49                  |
| 08 34 56 00-0038 EA 7' To 8' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate.....                | 1,064.38                  | 205.58                  |
| 08 34 56 00-0039 EA 7' To 8' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate.....                    | 1,128.42                  | 217.68                  |
| <b>08 34 56 00-0040 Window Gates, Expands From 2' To 4' (08 34 56)</b>  |                           |                         |
| Note: Includes padlock hasp and galvanized finish. Excludes padlock.  |                           |                         |
| 08 34 56 00-0041 EA 33" High Window Gate, Up To 4' Wide Opening.....  | 313.67                    | 66.52                   |
| 08 34 56 00-0042 EA 37" High Window Gate, Up To 4' Wide Opening.....  | 325.77                    | 72.56                   |
| 08 34 56 00-0043 EA 40" High Window Gate, Up To 4' Wide Opening.....  | 325.77                    | 72.56                   |
| 08 34 56 00-0044 EA 43" High Window Gate, Up To 4' Wide Opening.....  | 338.64                    | 78.61                   |
| 08 34 56 00-0045 EA 46" High Window Gate, Up To 4' Wide Opening.....  | 338.64                    | 78.61                   |
| 08 34 56 00-0046 EA 49" High Window Gate, Up To 4' Wide Opening.....  | 350.74                    | 84.65                   |
| 08 34 56 00-0047 EA 51" High Window Gate, Up To 4' Wide Opening.....  | 350.74                    | 84.65                   |
| 08 34 56 00-0048 EA 53" High Window Gate, Up To 4' Wide Opening.....  | 362.83                    | 90.70                   |
| 08 34 56 00-0049 EA 55" High Window Gate, Up To 4' Wide Opening.....  | 362.83                    | 90.70                   |
| 08 34 56 00-0050 EA 57" High Window Gate, Up To 4' Wide Opening.....  | 374.92                    | 96.74                   |
| 08 34 56 00-0051 EA 59" High Window Gate, Up To 4' Wide Opening.....  | 374.92                    | 96.74                   |
| <b>08 34 56 00-0052 Pivoting Door Gate, Expands From 2' To 4' (08 34 56)</b>  |                           |                         |
| Note: Includes padlock hasp and galvanized finish. Excludes padlock.  |                           |                         |
| 08 34 56 00-0053 EA 61" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 387.02                    | 102.80                  |
| 08 34 56 00-0054 EA 63" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 389.43                    | 102.80                  |
| 08 34 56 00-0055 EA 66" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 404.74                    | 108.84                  |
| 08 34 56 00-0056 EA 71" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 420.02                    | 114.89                  |
| 08 34 56 00-0057 EA 73" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 423.23                    | 114.89                  |
| 08 34 56 00-0058 EA 76" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 438.53                    | 120.93                  |
| 08 34 56 00-0059 EA 79" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 441.74                    | 120.93                  |
| 08 34 56 00-0060 EA 81" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 456.05                    | 126.98                  |
| 08 34 56 00-0061 EA 83" High Pivoting Door Gate, Up To 4' Wide Opening.....   | 460.24                    | 126.98                  |
| <b>08 34 73 Sound Control Door Assemblies (08 34)</b>   |                           |                         |
| <b>08 34 73 13 Metal Sound Control Door Assemblies (08 34 73)</b>   |                           |                         |
| <b>08 34 73 13-0001 Steel Acoustical Door Assembly (08 34 73 13)</b>  |                           |                         |
| Note: Includes seal.  |                           |                         |
| <b>08 34 73 13-0002 Steel Acoustical Doors (08 34 73 13-0001)</b>   |                           |                         |
| Note: Includes hardware: cam lift hinges and seals. Excludes frame, hardware: locksets, closer, electromagnetic release, etc. |                           |                         |
| 08 34 73 13-0003 EA 3' x 7', 16 Gauge, STC 50, Steel Acoustical Door (Unrated).....   | 4,462.58                  | 228.67                  |
| Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames.                  |                           |                         |
| For Accent Window Vision Lite, Add  | 1,585.11                  |                         |
| For Half Window Vision Lite, Add  | 1,640.68                  |                         |
| For Full Window Vision Lite, Add  | 1,696.24                  |                         |
| For 8' Height, Add  | 538.16                    |                         |
| For 45 Minutes Fire Rated, Add  | 226.59                    |                         |
| For 60 Minutes Fire Rated, Add  | 339.89                    |                         |
| For 90 Minutes Fire Rated, Add  | 566.49                    |                         |
| For 120 Minutes Fire Rated, Add   | 793.08                    |                         |
| For 45 STC Rating, Deduct   | -1,284.04                 |                         |
| For 48 STC Rating, Deduct   | -679.78                   |                         |
| For 52 STC Rating, Add  | 528.72                    |                         |
| For 55 STC Rating, Add  | 1,435.10                  |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 08 34 73 13-0004 | EA    |     |     | 3'-6" x 7', 16 Gauge, STC 50, Steel Acoustical Door (Unrated).....   | 4,719.28               | 238.19               |
|                  |       |     |     | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |                        |                      |
|                  |       |     |     | For Accent Window Vision Lite, Add   | 1,585.11               |                      |
|                  |       |     |     | For Half Window Vision Lite, Add   | 1,640.68               |                      |
|                  |       |     |     | For Full Window Vision Lite, Add   | 1,696.24               |                      |
|                  |       |     |     | For 8' Height, Add   | 570.67                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 240.28                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 360.42                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 600.71                 |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 840.99                 |                      |
|                  |       |     |     | For 45 STC Rating, Deduct  | -1,361.60              |                      |
|                  |       |     |     | For 48 STC Rating, Deduct  | -720.85                |                      |
|                  |       |     |     | For 52 STC Rating, Add   | 560.66                 |                      |
|                  |       |     |     | For 55 STC Rating, Add   | 1,521.79               |                      |
| 08 34 73 13-0005 | EA    |     |     | 4' x 7', 16 Gauge, STC 50, Steel Acoustical Door (Unrated) .....   | 5,004.56               | 257.25               |
|                  |       |     |     | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |                        |                      |
|                  |       |     |     | For Accent Window Vision Lite, Add   | 1,585.11               |                      |
|                  |       |     |     | For Half Window Vision Lite, Add   | 1,640.68               |                      |
|                  |       |     |     | For Full Window Vision Lite, Add   | 1,696.24               |                      |
|                  |       |     |     | For 8' Height, Add   | 603.18                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 253.97                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 380.95                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 634.92                 |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 888.89                 |                      |
|                  |       |     |     | For 45 STC Rating, Deduct  | -1,439.16              |                      |
|                  |       |     |     | For 48 STC Rating, Deduct  | -761.91                |                      |
|                  |       |     |     | For 52 STC Rating, Add   | 592.59                 |                      |
|                  |       |     |     | For 55 STC Rating, Add   | 1,608.47               |                      |
| 08 34 73 13-0006 | PR    |     |     | Pair 3' x 7', 16 Gauge, STC 50, Steel Acoustical Doors (Unrated) .....                                       | 8,856.55               | 434.46               |
|                  |       |     |     | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |                        |                      |
|                  |       |     |     | For Pair Accent Window Vision Lites, Add   | 3,170.22               |                      |
|                  |       |     |     | For Pair Half Window Vision Lites, Add   | 3,281.36               |                      |
|                  |       |     |     | For Pair Full Window Vision Lites, Add   | 3,392.49               |                      |
|                  |       |     |     | For 8' Height, Add   | 1,076.33               |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 453.19                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 679.78                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,132.97               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,586.16               |                      |
|                  |       |     |     | For 45 STC Rating, Deduct  | -2,568.07              |                      |
|                  |       |     |     | For 48 STC Rating, Deduct  | -1,359.57              |                      |
|                  |       |     |     | For 52 STC Rating, Add   | 1,057.44               |                      |
|                  |       |     |     | For 55 STC Rating, Add   | 2,870.20               |                      |
| 08 34 73 13-0007 | PR    |     |     | Pair 3'-6" x 7', 16 Gauge, STC 50, Steel Acoustical Door (Unrated).....                                      | 9,324.21               | 438.28               |
|                  |       |     |     | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |                        |                      |
|                  |       |     |     | For Pair Accent Window Vision Lites, Add   | 3,170.22               |                      |
|                  |       |     |     | For Pair Half Window Vision Lites, Add   | 3,281.36               |                      |
|                  |       |     |     | For Pair Full Window Vision Lites, Add   | 3,392.49               |                      |
|                  |       |     |     | For 8' Height, Add   | 1,141.34               |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 480.56                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 720.85                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,201.41               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,681.97               |                      |
|                  |       |     |     | For 45 STC Rating, Deduct  | -2,723.19              |                      |
|                  |       |     |     | For 48 STC Rating, Deduct  | -1,441.69              |                      |
|                  |       |     |     | For 52 STC Rating, Add   | 1,121.31               |                      |
|                  |       |     |     | For 55 STC Rating, Add   | 3,043.57               |                      |
| 08 34 73 13-0008 | EA    |     |     | 3' x 7', 14 Gauge, STC 50, Steel Acoustical Door (Unrated) .....   | 5,006.72               | 143.55               |
|                  |       |     |     | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |                        |                      |
|                  |       |     |     | For Accent Window Vision Lite, Add   | 1,585.11               |                      |
|                  |       |     |     | For Half Window Vision Lite, Add   | 1,640.68               |                      |
|                  |       |     |     | For Full Window Vision Lite, Add   | 1,696.24               |                      |
|                  |       |     |     | For 8' Height, Add   | 610.81                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 257.19                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 385.78                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 642.96                 |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 900.15                 |                      |
|                  |       |     |     | For 45 STC Rating, Deduct  | -1,457.38              |                      |
|                  |       |     |     | For 48 STC Rating, Deduct  | -771.56                |                      |
|                  |       |     |     | For 52 STC Rating, Add   | 600.10                 |                      |
|                  |       |     |     | For 55 STC Rating, Add   | 1,628.84               |                      |
| 08 34 73 13-0009 | EA    |     |     | 3'-6" x 7', 14 Gauge, STC 50, Steel Acoustical Door (Unrated).....   | 5,294.84               | 250.26               |
|                  |       |     |     | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |                        |                      |
|                  |       |     |     | For Accent Window Vision Lite, Add   | 1,585.11               |                      |
|                  |       |     |     | For Half Window Vision Lite, Add   | 1,640.68               |                      |
|                  |       |     |     | For Full Window Vision Lite, Add   | 1,696.24               |                      |
|                  |       |     |     | For 8' Height, Add   | 647.71                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 272.72                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 409.08                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 681.80                 |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 954.52                 |                      |
|                  |       |     |     | For 45 STC Rating, Deduct  | -1,545.41              |                      |
|                  |       |     |     | For 48 STC Rating, Deduct  | -818.16                |                      |
|                  |       |     |     | For 52 STC Rating, Add   | 636.35                 |                      |
|                  |       |     |     | For 55 STC Rating, Add   | 1,727.23               |                      |

|              |                                   |
|--------------|-----------------------------------|
| <b>08</b>    | <b>Openings</b>                   |
| <b>08 30</b> | <b>Specialty Doors and Frames</b> |
| <b>08 34</b> | <b>Special Function Doors</b>     |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |           |        |
|------------------|--|-----------|--------|
| 08 34 73 13-0010 | EA 4' x 7', 14 Gauge, STC 50, Steel Acoustical Door (Unrated).....   | 5,614.73  | 270.59 |
|                  | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |           |        |
|                  | For Accent Window Vision Lite, Add   | 1,585.11  |        |
|                  | For Half Window Vision Lite, Add   | 1,640.68  |        |
|                  | For Full Window Vision Lite, Add   | 1,696.24  |        |
|                  | For 8' Height, Add   | 684.60    |        |
|                  | For 45 Minutes Fire Rated, Add   | 288.25    |        |
|                  | For 60 Minutes Fire Rated, Add   | 432.38    |        |
|                  | For 90 Minutes Fire Rated, Add   | 720.64    |        |
|                  | For 120 Minutes Fire Rated, Add  | 1,008.89  |        |
|                  | For 45 STC Rating, Deduct  | -1,633.44 |        |
|                  | For 48 STC Rating, Deduct  | -864.76   |        |
|                  | For 52 STC Rating, Add   | 672.59    |        |
|                  | For 55 STC Rating, Add   | 1,825.61  |        |
| 08 34 73 13-0011 | PR Pair 3' x 7', 14 Gauge, STC 50, Steel Acoustical Doors (Unrated).....                                     | 9,431.17  | 456.05 |
|                  | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |           |        |
|                  | For Pair Accent Window Vision Lites, Add   | 3,170.22  |        |
|                  | For Pair Half Window Vision Lites, Add   | 3,281.36  |        |
|                  | For Pair Full Window Vision Lites, Add   | 3,392.49  |        |
|                  | For 8' Height, Add   | 1,148.98  |        |
|                  | For 45 Minutes Fire Rated, Add   | 483.78    |        |
|                  | For 60 Minutes Fire Rated, Add   | 725.67    |        |
|                  | For 90 Minutes Fire Rated, Add   | 1,209.45  |        |
|                  | For 120 Minutes Fire Rated, Add  | 1,693.23  |        |
|                  | For 45 STC Rating, Deduct  | -2,741.42 |        |
|                  | For 48 STC Rating, Deduct  | -1,451.34 |        |
|                  | For 52 STC Rating, Add   | 1,128.82  |        |
|                  | For 55 STC Rating, Add   | 3,063.94  |        |
| 08 34 73 13-0012 | PR Pair 3'-6" x 7', 14 Gauge, STC 50, Steel Acoustical Door (Unrated).....                                   | 9,930.91  | 459.87 |
|                  | Note: Excludes steel acoustical doorframe See CSI section 08 34 73 13-0013 for steel acoustical door frames. |           |        |
|                  | For Pair Accent Window Vision Lites, Add   | 3,170.22  |        |
|                  | For Pair Half Window Vision Lites, Add   | 3,281.36  |        |
|                  | For Pair Full Window Vision Lites, Add   | 3,392.49  |        |
|                  | For 8' Height, Add   | 1,218.38  |        |
|                  | For 45 Minutes Fire Rated, Add   | 513.00    |        |
|                  | For 60 Minutes Fire Rated, Add   | 769.50    |        |
|                  | For 90 Minutes Fire Rated, Add   | 1,282.50  |        |
|                  | For 120 Minutes Fire Rated, Add  | 1,795.51  |        |
|                  | For 45 STC Rating, Deduct  | -2,907.01 |        |
|                  | For 48 STC Rating, Deduct  | -1,539.01 |        |
|                  | For 52 STC Rating, Add   | 1,197.00  |        |
|                  | For 55 STC Rating, Add   | 3,249.01  |        |

### 08 34 73 13-0013 Steel Acoustical Door Frames (08 34 73 13-0001)

Note: Includes threshold and rating up to STC 55.

|                  |   |          |        |
|------------------|---|----------|--------|
| 08 34 73 13-0014 | EA 3' x 7', 4-1/2" To 6-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....    | 3,171.83 | 127.04 |
|                  | For 8' Height, Add  | 306.32   |        |
|                  | For 45 Minutes Fire Rated, Add  | 186.46   |        |
|                  | For 60 Minutes Fire Rated, Add  | 319.64   |        |
|                  | For 90 Minutes Fire Rated, Add  | 452.83   |        |
|                  | For 120 Minutes Fire Rated, Add   | 639.29   |        |
| 08 34 73 13-0015 | EA 3' x 7', 6-1/2" To 8-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....    | 3,247.28 | 127.04 |
|                  | For 8' Height, Add  | 315.00   |        |
|                  | For 45 Minutes Fire Rated, Add  | 191.74   |        |
|                  | For 60 Minutes Fire Rated, Add  | 328.70   |        |
|                  | For 90 Minutes Fire Rated, Add  | 465.65   |        |
|                  | For 120 Minutes Fire Rated, Add   | 657.39   |        |
| 08 34 73 13-0016 | EA 3' x 7', 8-1/2" To 10-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....   | 3,322.74 | 127.04 |
|                  | For 8' Height, Add  | 323.68   |        |
|                  | For 45 Minutes Fire Rated, Add  | 197.02   |        |
|                  | For 60 Minutes Fire Rated, Add  | 337.75   |        |
|                  | For 90 Minutes Fire Rated, Add  | 478.48   |        |
|                  | For 120 Minutes Fire Rated, Add   | 675.50   |        |
| 08 34 73 13-0017 | EA 3' x 7', 10-1/2" To 12-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....  | 3,398.19 | 127.04 |
|                  | For 8' Height, Add  | 332.36   |        |
|                  | For 45 Minutes Fire Rated, Add  | 202.30   |        |
|                  | For 60 Minutes Fire Rated, Add  | 346.81   |        |
|                  | For 90 Minutes Fire Rated, Add  | 491.31   |        |
|                  | For 120 Minutes Fire Rated, Add   | 693.61   |        |
| 08 34 73 13-0018 | EA 3'-6" x 7', 4-1/2" To 6-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame..... | 3,615.71 | 139.74 |
|                  | For 8' Height, Add  | 351.53   |        |
|                  | For 45 Minutes Fire Rated, Add  | 213.97   |        |
|                  | For 60 Minutes Fire Rated, Add  | 366.81   |        |
|                  | For 90 Minutes Fire Rated, Add  | 519.65   |        |
|                  | For 120 Minutes Fire Rated, Add   | 733.62   |        |
| 08 34 73 13-0019 | EA 3'-6" x 7', 6-1/2" To 8-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame..... | 3,699.94 | 139.74 |
|                  | For 8' Height, Add  | 361.21   |        |
|                  | For 45 Minutes Fire Rated, Add  | 219.87   |        |
|                  | For 60 Minutes Fire Rated, Add  | 376.92   |        |
|                  | For 90 Minutes Fire Rated, Add  | 533.97   |        |
|                  | For 120 Minutes Fire Rated, Add   | 753.84   |        |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 34 73 13-0020 | EA  |     | 3'-6" x 7', 8-1/2" To 10-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....                                 | 3,775.39               | 139.74               |
|                  |     |     | For 8' Height, Add  | 369.89                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 225.15                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 385.97                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 546.79                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 771.94                 |                      |
| 08 34 73 13-0021 | EA  |     | 3'-6" x 7', 10-1/2" To 12-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame .....                               | 3,868.98               | 139.74               |
|                  |     |     | For 8' Height, Add  | 380.65                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 231.70                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 397.20                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 562.70                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 794.40                 |                      |
| 08 34 73 13-0022 | EA  |     | 4' x 7', 4-1/2" To 6-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....                                     | 4,053.47               | 146.10               |
|                  |     |     | For 8' Height, Add  | 398.95                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 242.84                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 416.29                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 589.75                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 832.59                 |                      |
| 08 34 73 13-0023 | EA  |     | 4' x 7', 6-1/2" To 8-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....                                     | 4,128.93               | 146.10               |
|                  |     |     | For 8' Height, Add  | 407.63                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 248.12                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 425.35                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 602.58                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 850.70                 |                      |
| 08 34 73 13-0024 | EA  |     | 4' x 7', 8-1/2" To 10-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....                                    | 4,204.38               | 146.10               |
|                  |     |     | For 8' Height, Add  | 416.30                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 253.40                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 434.40                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 615.40                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 868.80                 |                      |
| 08 34 73 13-0025 | EA  |     | 4' x 7', 10-1/2" To 12-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame.....                                   | 4,288.61               | 146.10               |
|                  |     |     | For 8' Height, Add  | 425.99                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 259.30                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 444.51                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 629.72                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 889.02                 |                      |
| 08 34 73 13-0026 | EA  |     | 6' x 7', 4-1/2" To 6-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion .....   | 6,974.12               | 165.15               |
|                  |     |     | For 8' Height, Add  | 726.06                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 441.95                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 757.62                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,073.30               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,515.25               |                      |
| 08 34 73 13-0027 | EA  |     | 6' x 7', 6-1/2" To 8-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion .....   | 7,046.06               | 165.15               |
|                  |     |     | For 8' Height, Add  | 734.33                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 446.98                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 766.26                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,085.53               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,532.52               |                      |
| 08 34 73 13-0028 | EA  |     | 6' x 7', 8-1/2" To 10-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion .....  | 7,123.27               | 165.15               |
|                  |     |     | For 8' Height, Add  | 743.21                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 452.39                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 775.52                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,098.66               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,551.05               |                      |
| 08 34 73 13-0029 | EA  |     | 6' x 7', 10-1/2" To 12-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion ..... | 7,202.23               | 165.15               |
|                  |     |     | For 8' Height, Add  | 752.29                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 457.92                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 785.00                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,112.08               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,570.00               |                      |
| 08 34 73 13-0030 | EA  |     | 7' x 7', 4-1/2" To 6-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion .....   | 7,473.05               | 171.50               |
|                  |     |     | For 8' Height, Add  | 780.51                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 475.09                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 814.45                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,153.80               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,628.89               |                      |
| 08 34 73 13-0031 | EA  |     | 7' x 7', 6-1/2" To 8-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion .....   | 7,550.39               | 171.50               |
|                  |     |     | For 8' Height, Add  | 789.40                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 480.51                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 823.73                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,166.95               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,647.45               |                      |
| 08 34 73 13-0032 | EA  |     | 7' x 7', 8-1/2" To 10-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable<br>Center Mullion .....  | 7,633.39               | 171.50               |
|                  |     |     | For 8' Height, Add  | 798.95                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add  | 486.32                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add  | 833.69                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add  | 1,181.06               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add   | 1,667.37               |                      |



**08 Openings****08 30 Specialty Doors and Frames****08 34 Special Function Doors**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 34 73 13-0033 | EA  |     | 7' x 7', 10-1/2" To 12-1/2" Wall Thickness, 16 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion ..... | 7,718.28               | 171.50               |
|                  |     |     | For 8' Height, Add   | 808.71                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 492.26                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 843.87                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 1,195.49               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 1,687.75               |                      |
| 08 34 73 13-0034 | EA  |     | 3' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                                 | 3,467.79               | 127.04               |
|                  |     |     | For 8' Height, Add   | 340.36                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 207.18                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 355.16                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 503.14                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 710.32                 |                      |
| 08 34 73 13-0035 | EA  |     | 3' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                                 | 3,551.63               | 127.04               |
|                  |     |     | For 8' Height, Add   | 350.00                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 213.04                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 365.22                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 517.39                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 730.44                 |                      |
| 08 34 73 13-0036 | EA  |     | 3' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                                | 3,635.47               | 127.04               |
|                  |     |     | For 8' Height, Add   | 359.64                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 218.91                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 375.28                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 531.65                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 750.56                 |                      |
| 08 34 73 13-0037 | EA  |     | 3' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                               | 3,719.31               | 127.04               |
|                  |     |     | For 8' Height, Add   | 369.28                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 224.78                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 385.34                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 545.90                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 770.68                 |                      |
| 08 34 73 13-0038 | EA  |     | 3'-6" x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                              | 3,955.35               | 139.74               |
|                  |     |     | For 8' Height, Add   | 390.58                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 237.75                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 407.57                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 577.39                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 815.13                 |                      |
| 08 34 73 13-0039 | EA  |     | 3'-6" x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                              | 4,048.93               | 139.74               |
|                  |     |     | For 8' Height, Add   | 401.35                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 244.30                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 418.80                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 593.29                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 837.59                 |                      |
| 08 34 73 13-0040 | EA  |     | 3'-6" x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                             | 4,132.77               | 139.74               |
|                  |     |     | For 8' Height, Add   | 410.99                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 250.17                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 428.86                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 607.55                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 857.71                 |                      |
| 08 34 73 13-0041 | EA  |     | 3'-6" x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                            | 4,236.76               | 139.74               |
|                  |     |     | For 8' Height, Add   | 422.95                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 257.45                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 441.34                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 625.23                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 882.67                 |                      |
| 08 34 73 13-0042 | EA  |     | 4' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                                 | 4,438.93               | 146.10               |
|                  |     |     | For 8' Height, Add   | 443.28                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 269.82                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 462.55                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 655.28                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 925.10                 |                      |
| 08 34 73 13-0043 | EA  |     | 4' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                                 | 4,522.77               | 146.10               |
|                  |     |     | For 8' Height, Add   | 452.92                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 275.69                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 472.61                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 669.53                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 945.22                 |                      |
| 08 34 73 13-0044 | EA  |     | 4' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                                | 4,606.60               | 146.10               |
|                  |     |     | For 8' Height, Add   | 462.56                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 281.56                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 482.67                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 683.78                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 965.34                 |                      |
| 08 34 73 13-0045 | EA  |     | 4' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame .....                               | 4,700.19               | 146.10               |
|                  |     |     | For 8' Height, Add   | 473.32                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 288.11                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 493.90                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 699.69                 |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 987.80                 |                      |
| 08 34 73 13-0046 | EA  |     | 6' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....   | 7,675.62               | 165.15               |
|                  |     |     | For 8' Height, Add   | 806.73                 |                      |
|                  |     |     | For 45 Minutes Fire Rated, Add   | 491.05                 |                      |
|                  |     |     | For 60 Minutes Fire Rated, Add   | 841.80                 |                      |
|                  |     |     | For 90 Minutes Fire Rated, Add   | 1,192.56               |                      |
|                  |     |     | For 120 Minutes Fire Rated, Add  | 1,683.61               |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 08 34 73 13-0047 | EA    |     |     | 6' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....7,755.56   |                        | 165.15               |
|                  |       |     |     | For 8' Height, Add   | 815.92                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 496.65                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 851.40                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,206.15               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,702.80               |                      |
| 08 34 73 13-0048 | EA    |     |     | 6' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....7,841.35  |                        | 165.15               |
|                  |       |     |     | For 8' Height, Add   | 825.79                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 502.65                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 861.69                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,220.73               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,723.38               |                      |
| 08 34 73 13-0049 | EA    |     |     | 6' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....7,929.08 |                        | 165.15               |
|                  |       |     |     | For 8' Height, Add   | 835.88                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 508.80                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 872.22                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,235.65               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,744.44               |                      |
| 08 34 73 13-0050 | EA    |     |     | 7' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....8,227.17   |                        | 171.50               |
|                  |       |     |     | For 8' Height, Add   | 867.23                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 527.88                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 904.94                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,282.00               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,809.88               |                      |
| 08 34 73 13-0051 | EA    |     |     | 7' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....8,313.10   |                        | 171.50               |
|                  |       |     |     | For 8' Height, Add   | 877.12                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 533.90                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 915.25                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,296.61               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,830.50               |                      |
| 08 34 73 13-0052 | EA    |     |     | 7' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....8,405.32  |                        | 171.50               |
|                  |       |     |     | For 8' Height, Add   | 887.72                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 540.35                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 926.32                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,312.28               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,852.64               |                      |
| 08 34 73 13-0053 | EA    |     |     | 7' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion .....8,499.64 |                        | 171.50               |
|                  |       |     |     | For 8' Height, Add   | 898.57                 |                      |
|                  |       |     |     | For 45 Minutes Fire Rated, Add   | 546.95                 |                      |
|                  |       |     |     | For 60 Minutes Fire Rated, Add   | 937.64                 |                      |
|                  |       |     |     | For 90 Minutes Fire Rated, Add   | 1,328.32               |                      |
|                  |       |     |     | For 120 Minutes Fire Rated, Add  | 1,875.27               |                      |

**08 34 73 16 Wood Sound Control Door Assemblies (08 34 73)**

|                  |    |  |  |   |        |        |
|------------------|----|--|--|---|--------|--------|
| 08 34 73 16-0001 |    |  |  | <b>Wood Acoustical Door Assembly (08 34 73 16)</b><br>Note: Includes prefinished wood door, frame, hinges and seals. Excludes hardware: locksets, closer, electromagnetic release, etc. |        |        |
| 08 34 73 16-0002 | EA |  |  | 3' x 7' x 1-3/4" Thick, STC 27, Wood Acoustical Door System (Unrated) .....2,687.34   |        | 355.70 |
|                  |    |  |  | Note: Includes the prefinished door, frame, hinges and seals.   |        |        |
|                  |    |  |  | For 20 Minutes Fire Rated, Add  | 50.00  |        |
|                  |    |  |  | For 45 Minutes Fire Rated, Add  | 80.00  |        |
|                  |    |  |  | For 60 Minutes Fire Rated, Add  | 115.00 |        |
|                  |    |  |  | For 90 Minutes Fire Rated, Add  | 145.00 |        |
| 08 34 73 16-0003 | EA |  |  | 3' x 7' x 1-3/4" Thick, STC 29, Wood Acoustical Door System (Unrated) .....2,891.75   |        | 355.70 |
|                  |    |  |  | Note: Includes the prefinished door, frame, hinges and seals.   |        |        |
|                  |    |  |  | For 20 Minutes Fire Rated, Add  | 50.00  |        |
|                  |    |  |  | For 45 Minutes Fire Rated, Add  | 80.00  |        |
|                  |    |  |  | For 60 Minutes Fire Rated, Add  | 115.00 |        |
|                  |    |  |  | For 90 Minutes Fire Rated, Add  | 145.00 |        |
| 08 34 73 16-0004 | EA |  |  | 3' x 7' x 1-3/4" Thick, STC 30, Wood Acoustical Door System (Unrated) .....3,005.31   |        | 355.70 |
|                  |    |  |  | Note: Includes the prefinished door, frame, hinges and seals.   |        |        |
|                  |    |  |  | For 20 Minutes Fire Rated, Add  | 50.00  |        |
|                  |    |  |  | For 45 Minutes Fire Rated, Add  | 80.00  |        |
|                  |    |  |  | For 60 Minutes Fire Rated, Add  | 115.00 |        |
|                  |    |  |  | For 90 Minutes Fire Rated, Add  | 145.00 |        |
| 08 34 73 16-0005 | EA |  |  | 3' x 7' x 1-3/4" Thick, STC 31, Wood Acoustical Door System (Unrated) .....3,118.87   |        | 355.70 |
|                  |    |  |  | Note: Includes the prefinished door, frame, hinges and seals.   |        |        |
|                  |    |  |  | For 20 Minutes Fire Rated, Add  | 50.00  |        |
|                  |    |  |  | For 45 Minutes Fire Rated, Add  | 80.00  |        |
|                  |    |  |  | For 60 Minutes Fire Rated, Add  | 115.00 |        |
|                  |    |  |  | For 90 Minutes Fire Rated, Add  | 145.00 |        |
| 08 34 73 16-0006 | EA |  |  | 3' x 7' x 1-3/4" Thick, STC 36, Wood Acoustical Door System (Unrated) .....3,618.54   |        | 355.70 |
|                  |    |  |  | Note: Includes the prefinished door, frame, hinges and seals.   |        |        |
|                  |    |  |  | For 20 Minutes Fire Rated, Add  | 50.00  |        |
|                  |    |  |  | For 45 Minutes Fire Rated, Add  | 80.00  |        |
|                  |    |  |  | For 60 Minutes Fire Rated, Add  | 115.00 |        |
|                  |    |  |  | For 90 Minutes Fire Rated, Add  | 145.00 |        |

**08 Openings****08 30 Specialty Doors and Frames****08 34 Special Function Doors**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 34 73 16-0007 | EA  |     | 3' x 7' x 1-3/4" Thick, STC 40, Wood Acoustical Door System (Unrated) .....<br>Note: Includes the prefinished door, frame, hinges and seals. | 4,708.71               | 355.70               |
| 08 34 73 16-0008 | EA  |     | 3' x 7' x 1-3/4" Thick, STC 42, Wood Acoustical Door System (Unrated) .....<br>Note: Includes the prefinished door, frame, hinges and seals. | 4,919.93               | 355.70               |
|                  |     |     | <i>For 20 Minutes Fire Rated, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 45 Minutes Fire Rated, Add</i>  | 80.00                  |                      |
|                  |     |     | <i>For 60 Minutes Fire Rated, Add</i>  | 115.00                 |                      |
|                  |     |     | <i>For 90 Minutes Fire Rated, Add</i>  | 145.00                 |                      |
| 08 34 73 16-0009 | EA  |     | 3' x 7' x 1-3/4" Thick, STC 46, Wood Acoustical Door System (Unrated) .....<br>Note: Includes the prefinished door, frame, hinges and seals. | 5,764.82               | 355.70               |
|                  |     |     | <i>For 20 Minutes Fire Rated, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 45 Minutes Fire Rated, Add</i>  | 80.00                  |                      |
|                  |     |     | <i>For 60 Minutes Fire Rated, Add</i>  | 115.00                 |                      |
|                  |     |     | <i>For 90 Minutes Fire Rated, Add</i>  | 145.00                 |                      |
| 08 34 73 16-0010 | EA  |     | 3' x 7' x 1-3/4" Thick, STC 49, Wood Acoustical Door System (Unrated) .....<br>Note: Includes the prefinished door, frame, hinges and seals. | 6,395.08               | 355.70               |

**08 60 Roof Windows and Skylights** <sup>(08)</sup>

Note: Includes hardware, caulk, sealant and necessary anchors.

**08 62 Unit Skylights** <sup>(08 60)</sup>**08 62 23 Tubular Skylights** <sup>(08 62)</sup>**08 62 23 00-0001 Aluminum Framed Solar Tube Skylights** <sup>(08 62 23)</sup>

Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.

**08 62 23 00-0002 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights** <sup>(08 62 23 00-0001)</sup>

|                  |    |  |  |  |        |
|------------------|----|--|--|--|--------|
| 08 62 23 00-0003 | EA |  | 2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....<br><i>For Class 3 Hail Rated, Add</i><br><i>For Polycarbonate Diffuser Lens, Add</i><br><i>For High Velocity Hurricane Zone Rated, Add</i><br><i>For FM Approved, Add</i><br><i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For Single Blade Louver, Add</i> | 1,322.95<br>4.00<br>7.00<br>14.00<br>20.00<br>49.00<br>69.00<br>1,021.75 | 201.70 |
| 08 62 23 00-0004 | EA |  | 3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....<br><i>For Class 3 Hail Rated, Add</i><br><i>For Polycarbonate Diffuser Lens, Add</i><br><i>For High Velocity Hurricane Zone Rated, Add</i><br><i>For FM Approved, Add</i><br><i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For Single Blade Louver, Add</i> | 1,397.03<br>4.00<br>7.00<br>14.00<br>20.00<br>49.00<br>69.00<br>1,022.76 | 206.74 |
| 08 62 23 00-0005 | EA |  | 4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....<br><i>For Class 3 Hail Rated, Add</i><br><i>For Polycarbonate Diffuser Lens, Add</i><br><i>For High Velocity Hurricane Zone Rated, Add</i><br><i>For FM Approved, Add</i><br><i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For Single Blade Louver, Add</i> | 1,468.99<br>4.00<br>7.00<br>14.00<br>20.00<br>49.00<br>69.00<br>1,023.77 | 211.79 |
| 08 62 23 00-0006 | EA |  | 5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....<br><i>For Class 3 Hail Rated, Add</i><br><i>For Polycarbonate Diffuser Lens, Add</i><br><i>For High Velocity Hurricane Zone Rated, Add</i><br><i>For FM Approved, Add</i><br><i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For Single Blade Louver, Add</i> | 1,570.81<br>4.00<br>7.00<br>14.00<br>20.00<br>49.00<br>69.00<br>1,024.78 | 216.83 |
| 08 62 23 00-0007 | EA |  | 6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....<br><i>For Class 3 Hail Rated, Add</i><br><i>For Polycarbonate Diffuser Lens, Add</i><br><i>For High Velocity Hurricane Zone Rated, Add</i><br><i>For FM Approved, Add</i><br><i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For Single Blade Louver, Add</i> | 1,659.84<br>4.00<br>7.00<br>14.00<br>20.00<br>49.00<br>69.00<br>1,025.78 | 221.87 |
| 08 62 23 00-0008 | EA |  | 7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....<br><i>For Class 3 Hail Rated, Add</i><br><i>For Polycarbonate Diffuser Lens, Add</i><br><i>For High Velocity Hurricane Zone Rated, Add</i><br><i>For FM Approved, Add</i><br><i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i><br><i>For Single Blade Louver, Add</i> | 1,731.80<br>4.00<br>7.00<br>14.00<br>20.00<br>49.00<br>69.00<br>1,026.79 | 226.91 |



|                                   |              |
|-----------------------------------|--------------|
| <b>Openings</b>                   | <b>08</b>    |
| <b>Roof Windows and Skylights</b> | <b>08 60</b> |
| <b>Unit Skylights</b>             | <b>08 62</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 62 23 00-0009 | EA  |     | 8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....           | 1,803.75               | 231.95               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,027.80               |                      |
| 08 62 23 00-0010 | EA  |     | 9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....           | 1,922.65               | 237.00               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,028.81               |                      |
| 08 62 23 00-0011 | EA  |     | 10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 1,994.60               | 242.04               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,029.82               |                      |
| 08 62 23 00-0012 | EA  |     | 11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 2,068.69               | 247.08               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,030.83               |                      |
| 08 62 23 00-0013 | EA  |     | 12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 2,140.64               | 252.13               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,031.84               |                      |
| 08 62 23 00-0014 | EA  |     | 13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 2,259.54               | 257.17               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,032.84               |                      |
| 08 62 23 00-0015 | EA  |     | 14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 2,331.49               | 262.21               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,033.85               |                      |
| 08 62 23 00-0016 | EA  |     | 15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 2,403.46               | 267.26               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,034.86               |                      |
| 08 62 23 00-0017 | EA  |     | 16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....          | 2,475.41               | 272.29               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 4.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 7.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 20.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 49.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 69.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,035.87               |                      |
| 08 62 23 00-0018 |     |     | 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small> |                        |                      |

**08 Openings****08 60 Roof Windows and Skylights****08 62 Unit Skylights**

| MINOR            |  | TOTAL DIRECT | DEMOLITION |
|------------------|--|--------------|------------|
| CSI              | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 08 62 23 00-0019 | EA 2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 1,610.97     | 201.70     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,021.75     |            |
| 08 62 23 00-0020 | EA 3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 1,712.79     | 206.74     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,022.76     |            |
| 08 62 23 00-0021 | EA 4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 1,814.61     | 211.79     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,023.77     |            |
| 08 62 23 00-0022 | EA 5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 1,916.43     | 216.83     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,024.78     |            |
| 08 62 23 00-0023 | EA 6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,082.27     | 221.87     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,025.78     |            |
| 08 62 23 00-0024 | EA 7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,184.10     | 226.91     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,026.79     |            |
| 08 62 23 00-0025 | EA 8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,285.92     | 231.95     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,027.80     |            |
| 08 62 23 00-0026 | EA 9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,451.75     | 237.00     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,028.81     |            |
| 08 62 23 00-0027 | EA 10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens,<br>Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 2,553.58     | 242.04     |
|                  | <i>For Class 3 Hail Rated, Add</i>   | 5.00         |            |
|                  | <i>For Polycarbonate Diffuser Lens, Add</i>  | 8.00         |            |
|                  | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 14.00        |            |
|                  | <i>For FM Approved, Add</i>  | 22.00        |            |
|                  | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 50.00        |            |
|                  | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 86.00        |            |
|                  | <i>For Single Blade Louver, Add</i>  | 1,029.82     |            |



|                                   |              |
|-----------------------------------|--------------|
| <b>Openings</b>                   | <b>08</b>    |
| <b>Roof Windows and Skylights</b> | <b>08 60</b> |
| <b>Unit Skylights</b>             | <b>08 62</b> |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 62 23 00-0028 | EA  |     | 11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                    | 2,655.41               | 247.08               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 5.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 8.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 86.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,030.83               |                      |
| 08 62 23 00-0029 | EA  |     | 12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                    | 2,757.23               | 252.13               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 5.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 8.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 86.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,031.84               |                      |
| 08 62 23 00-0030 | EA  |     | 13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                    | 2,923.06               | 257.17               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 5.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 8.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 86.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,032.84               |                      |
| 08 62 23 00-0031 | EA  |     | 14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                    | 3,024.88               | 262.21               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 5.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 8.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 86.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,033.85               |                      |
| 08 62 23 00-0032 | EA  |     | 15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                    | 3,126.71               | 267.26               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 5.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 8.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 86.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,034.86               |                      |
| 08 62 23 00-0033 | EA  |     | 16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                    | 3,228.53               | 272.29               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 5.00                   |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 8.00                   |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 50.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 86.00                  |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,035.87               |                      |
| 08 62 23 00-0034 |     |     | <b>55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights</b> <small>(08 62 23 00-0001)</small> |                        |                      |
| 08 62 23 00-0035 | EA  |     | 2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                     | 2,158.50               | 226.91               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 10.00                  |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 22.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 95.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 145.00                 |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,026.79               |                      |
| 08 62 23 00-0036 | EA  |     | 3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                     | 2,300.85               | 231.95               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 10.00                  |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 22.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 95.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 145.00                 |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,027.80               |                      |
| 08 62 23 00-0037 | EA  |     | 4' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....                     | 2,445.35               | 237.00               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>  | 10.00                  |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>   | 14.00                  |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>  | 22.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 95.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>  | 145.00                 |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>   | 1,028.81               |                      |

**08 Openings****08 60 Roof Windows and Skylights****08 62 Unit Skylights**

| MINOR            |     |  |          | TOTAL DIRECT | DEMOLITION |
|------------------|-----|--|----------|--------------|------------|
| CSI              | UOM | DESCRIPTION  |          | UNIT COST    | UNIT COST  |
| 08 62 23 00-0038 | EA  | 5' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,587.71 |              | 242.04     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,029.82 |              |            |
| 08 62 23 00-0039 | EA  | 6' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,815.42 |              | 247.08     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,030.83 |              |            |
| 08 62 23 00-0040 | EA  | 7' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 2,957.77 |              | 252.13     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,031.84 |              |            |
| 08 62 23 00-0041 | EA  | 8' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 3,100.14 |              | 257.17     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,032.84 |              |            |
| 08 62 23 00-0042 | EA  | 9' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....  | 3,329.97 |              | 262.21     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,033.85 |              |            |
| 08 62 23 00-0043 | EA  | 10' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 3,472.34 |              | 267.26     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,034.86 |              |            |
| 08 62 23 00-0044 | EA  | 11' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 3,614.70 |              | 272.29     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,035.87 |              |            |
| 08 62 23 00-0045 | EA  | 12' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 3,757.06 |              | 277.34     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,036.88 |              |            |
| 08 62 23 00-0046 | EA  | 13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 3,984.76 |              | 282.38     |
|                  |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00    |              |            |
|                  |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00    |              |            |
|                  |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00    |              |            |
|                  |     | <i>For FM Approved, Add</i>  | 36.00    |              |            |
|                  |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00    |              |            |
|                  |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00   |              |            |
|                  |     | <i>For Single Blade Louver, Add</i>  | 1,037.89 |              |            |



|                                   |              |
|-----------------------------------|--------------|
| <b>Openings</b>                   | <b>08</b>    |
| <b>Roof Windows and Skylights</b> | <b>08 60</b> |
| <b>Unit Skylights</b>             | <b>08 62</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 62 23 00-0047 | EA  |     | 14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 4,127.13               | 287.42               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00                  |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 36.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00                 |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,038.90               |                      |
| 08 62 23 00-0048 | EA  |     | 15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 4,271.62               | 292.47               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00                  |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 36.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00                 |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,039.90               |                      |
| 08 62 23 00-0049 | EA  |     | 16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... | 4,413.98               | 297.51               |
|                  |     |     | <i>For Class 3 Hail Rated, Add</i>   | 10.00                  |                      |
|                  |     |     | <i>For Polycarbonate Diffuser Lens, Add</i>  | 14.00                  |                      |
|                  |     |     | <i>For High Velocity Hurricane Zone Rated, Add</i>   | 22.00                  |                      |
|                  |     |     | <i>For FM Approved, Add</i>  | 36.00                  |                      |
|                  |     |     | <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 95.00                  |                      |
|                  |     |     | <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>   | 145.00                 |                      |
|                  |     |     | <i>For Single Blade Louver, Add</i>  | 1,040.91               |                      |

**08 63 Metal-Framed Skylights** (08 60)

**08 63 13 Domed Metal-Framed Skylights** (08 63)

- 08 63 13 00-0001 Domed Aluminum Framed Skylights (08 63 13)
- 08 63 13 00-0002 Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0001)
- 08 63 13 00-0003 Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)
- 08 63 13 00-0004 Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)

Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.

|                  |    |  |  |          |        |
|------------------|----|--|--|----------|--------|
| 08 63 13 00-0005 | EA |  | 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 729.14   | 136.15 |
| 08 63 13 00-0006 | EA |  | 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 862.16   | 146.23 |
| 08 63 13 00-0007 | EA |  | 27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,122.30 | 161.36 |
| 08 63 13 00-0008 | EA |  | 27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight..... | 1,252.68 | 171.45 |
| 08 63 13 00-0009 | EA |  | 39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 899.73   | 146.23 |
| 08 63 13 00-0010 | EA |  | 39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,097.96 | 161.36 |
| 08 63 13 00-0011 | EA |  | 39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,186.47 | 171.45 |
| 08 63 13 00-0012 | EA |  | 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,330.60 | 181.53 |
| 08 63 13 00-0013 | EA |  | 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight..... | 1,524.54 | 196.66 |
| 08 63 13 00-0014 | EA |  | 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,118.63 | 171.45 |
| 08 63 13 00-0015 | EA |  | 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,202.36 | 176.49 |
| 08 63 13 00-0016 | EA |  | 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,333.75 | 181.53 |
| 08 63 13 00-0017 | EA |  | 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,433.37 | 186.57 |
| 08 63 13 00-0018 | EA |  | 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight..... | 1,574.34 | 201.70 |
| 08 63 13 00-0019 | EA |  | 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight..... | 1,744.96 | 211.79 |
| 08 63 13 00-0020 | EA |  | 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,301.98 | 181.53 |
| 08 63 13 00-0021 | EA |  | 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,409.03 | 191.62 |
| 08 63 13 00-0022 | EA |  | 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,566.91 | 196.66 |
| 08 63 13 00-0023 | EA |  | 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,655.93 | 206.74 |
| 08 63 13 00-0024 | EA |  | 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight..... | 1,879.50 | 216.83 |



**08 Openings****08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 08 63 13 00-0025 |     |     | <b>Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0003)</small><br>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.                       |                        |                      |
| 08 63 13 00-0026 | EA  |     | 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 861.55                 | 136.15               |
| 08 63 13 00-0027 | EA  |     | 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 991.92                 | 146.23               |
| 08 63 13 00-0028 | EA  |     | 27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,225.58               | 161.36               |
| 08 63 13 00-0029 | EA  |     | 27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....   | 1,358.60               | 171.45               |
| 08 63 13 00-0030 | EA  |     | 39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 995.07                 | 146.23               |
| 08 63 13 00-0031 | EA  |     | 39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,172.11               | 161.36               |
| 08 63 13 00-0032 | EA  |     | 39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,265.92               | 171.45               |
| 08 63 13 00-0033 | EA  |     | 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,420.64               | 181.53               |
| 08 63 13 00-0034 | EA  |     | 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....   | 1,577.50               | 196.66               |
| 08 63 13 00-0035 | EA  |     | 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,192.78               | 171.45               |
| 08 63 13 00-0036 | EA  |     | 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,287.10               | 176.49               |
| 08 63 13 00-0037 | EA  |     | 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,378.77               | 181.53               |
| 08 63 13 00-0038 | EA  |     | 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,483.69               | 186.57               |
| 08 63 13 00-0039 | EA  |     | 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....   | 1,600.82               | 201.70               |
| 08 63 13 00-0040 | EA  |     | 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....   | 1,774.09               | 211.79               |
| 08 63 13 00-0041 | EA  |     | 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,389.37               | 181.53               |
| 08 63 13 00-0042 | EA  |     | 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,504.37               | 191.62               |
| 08 63 13 00-0043 | EA  |     | 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,622.52               | 196.66               |
| 08 63 13 00-0044 | EA  |     | 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,716.84               | 206.74               |
| 08 63 13 00-0045 | EA  |     | 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....   | 1,919.22               | 216.83               |
| 08 63 13 00-0046 |     |     | <b>High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0003)</small><br>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing. |                        |                      |
| 08 63 13 00-0047 | EA  |     | 27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 872.14                 | 136.15               |
| 08 63 13 00-0048 | EA  |     | 27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,013.10               | 146.23               |
| 08 63 13 00-0049 | EA  |     | 27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,254.71               | 161.36               |
| 08 63 13 00-0050 | EA  |     | 39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,021.55               | 146.23               |
| 08 63 13 00-0051 | EA  |     | 39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,209.18               | 161.36               |
| 08 63 13 00-0052 | EA  |     | 39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,295.05               | 171.45               |
| 08 63 13 00-0053 | EA  |     | 39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,452.42               | 181.53               |
| 08 63 13 00-0054 | EA  |     | 51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,216.62               | 171.45               |
| 08 63 13 00-0055 | EA  |     | 51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,308.29               | 176.49               |
| 08 63 13 00-0056 | EA  |     | 51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,413.20               | 181.53               |
| 08 63 13 00-0057 | EA  |     | 51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,518.11               | 186.57               |
| 08 63 13 00-0058 | EA  |     | 52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....   | 1,643.19               | 201.70               |
| 08 63 13 00-0059 | EA  |     | 63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,421.14               | 181.53               |
| 08 63 13 00-0060 | EA  |     | 63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,546.74               | 191.62               |
| 08 63 13 00-0061 | EA  |     | 63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,664.89               | 196.66               |
| 08 63 13 00-0062 | EA  |     | 63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....  | 1,759.21               | 206.74               |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |                 |
|------------------|--|-----------------|
| 08 63 13 00-0063 | <b>FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0003)</small>   |                 |
|                  | Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.   |                 |
| 08 63 13 00-0064 | EA 27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 890.68 136.15   |
| 08 63 13 00-0065 | EA 27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,042.23 146.23 |
| 08 63 13 00-0066 | EA 27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,281.19 161.36 |
| 08 63 13 00-0067 | EA 27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....   | 1,453.94 171.45 |
| 08 63 13 00-0068 | EA 39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,048.03 146.23 |
| 08 63 13 00-0069 | EA 39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,233.02 161.36 |
| 08 63 13 00-0070 | EA 39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,321.53 171.45 |
| 08 63 13 00-0071 | EA 39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,492.14 181.53 |
| 08 63 13 00-0072 | EA 51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,245.75 171.45 |
| 08 63 13 00-0073 | EA 51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,337.42 176.49 |
| 08 63 13 00-0074 | EA 51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,450.27 181.53 |
| 08 63 13 00-0075 | EA 51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,557.84 186.57 |
| 08 63 13 00-0076 | EA 52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....   | 1,685.57 201.70 |
| 08 63 13 00-0077 | EA 63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,460.87 181.53 |
| 08 63 13 00-0078 | EA 63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,586.46 191.62 |
| 08 63 13 00-0079 | EA 63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,707.26 196.66 |
| 08 63 13 00-0080 | EA 63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....  | 1,806.88 206.74 |
| 08 63 13 00-0081 | <b>Curb Top Inserts</b> <small>(08 63 13 00-0003)</small>  |                 |
|                  | Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb and flashing. |                 |
| 08 63 13 00-0082 | <b>Single Glazed, Aluminum Framed Curb Top Inserts</b> <small>(08 63 13 00-0081)</small>   |                 |
| 08 63 13 00-0083 | EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....  | 278.51 65.55    |
| 08 63 13 00-0084 | EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....  | 365.59 75.63    |
| 08 63 13 00-0085 | EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....   | 584.17 100.85   |
| 08 63 13 00-0086 | EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....  | 539.76 90.76    |
| 08 63 13 00-0087 | EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....  | 643.91 100.85   |
| 08 63 13 00-0088 | <b>Double Glazed, Aluminum Framed Curb Top Inserts</b> <small>(08 63 13 00-0081)</small>   |                 |
| 08 63 13 00-0089 | EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....  | 365.98 65.55    |
| 08 63 13 00-0090 | EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....  | 534.13 75.63    |
| 08 63 13 00-0091 | EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....   | 889.26 100.85   |
| 08 63 13 00-0092 | EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....  | 864.05 90.76    |
| 08 63 13 00-0093 | EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....  | 1,066.34 100.85 |
| 08 63 13 00-0094 | <b>Triple Glazed, Aluminum Framed Curb Top Inserts</b> <small>(08 63 13 00-0081)</small>   |                 |
| 08 63 13 00-0095 | EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....  | 451.32 65.55    |
| 08 63 13 00-0096 | EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....  | 694.15 75.63    |
| 08 63 13 00-0097 | EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....   | 1,264.76 100.85 |
| 08 63 13 00-0098 | EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....  | 1,167.01 90.76  |
| 08 63 13 00-0099 | EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....  | 1,458.91 100.85 |
| 08 63 13 00-0100 | <b>Pyramid Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0002)</small>   |                 |
| 08 63 13 00-0101 | <b>Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0100)</small>  |                 |
|                  | Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.   |                 |
| 08 63 13 00-0102 | EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....  | 681.47 136.15   |
| 08 63 13 00-0103 | EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....  | 825.58 146.23   |

**08 Openings****08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 63 13 00-0104 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....                        | 1,044.48                  | 171.45                  |
| 08 63 13 00-0105 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....                        | 1,272.85                  | 181.53                  |
| <b>08 63 13 00-0106 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0100)</small>                       |                           |                         |
| Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing. |                           |                         |
| 08 63 13 00-0107 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....            | 888.03                    | 136.15                  |
| 08 63 13 00-0108 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....            | 1,037.44                  | 146.23                  |
| 08 63 13 00-0109 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....            | 1,237.80                  | 171.45                  |
| 08 63 13 00-0110 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....            | 1,450.27                  | 181.53                  |
| <b>08 63 13 00-0111 Double Hip Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0002)</small>   |                           |                         |
| <b>08 63 13 00-0112 Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0111)</small>                                |                           |                         |
| Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing. |                           |                         |
| 08 63 13 00-0113 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 779.45                    | 136.15                  |
| 08 63 13 00-0114 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,042.85                  | 161.36                  |
| 08 63 13 00-0115 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                    | 1,210.30                  | 171.45                  |
| 08 63 13 00-0116 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 997.33                    | 161.36                  |
| 08 63 13 00-0117 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,083.19                  | 171.45                  |
| 08 63 13 00-0118 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,272.34                  | 181.53                  |
| 08 63 13 00-0119 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                    | 1,468.93                  | 196.66                  |
| 08 63 13 00-0120 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,130.86                  | 176.49                  |
| 08 63 13 00-0121 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,230.47                  | 181.53                  |
| 08 63 13 00-0122 EA 51-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,338.03                  | 186.57                  |
| 08 63 13 00-0123 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                    | 1,457.82                  | 201.70                  |
| 08 63 13 00-0124 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                    | 1,686.70                  | 211.79                  |
| 08 63 13 00-0125 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,379.90                  | 191.62                  |
| 08 63 13 00-0126 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,527.19                  | 196.66                  |
| 08 63 13 00-0127 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                     | 1,629.45                  | 206.74                  |
| 08 63 13 00-0128 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....                    | 1,850.37                  | 216.83                  |
| <b>08 63 13 00-0129 Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0111)</small>                          |                           |                         |
| Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing. |                           |                         |
| 08 63 13 00-0130 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 869.49                    | 136.15                  |
| 08 63 13 00-0131 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,005.16                  | 146.23                  |
| 08 63 13 00-0132 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,238.82                  | 161.36                  |
| 08 63 13 00-0133 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,013.61                  | 146.23                  |
| 08 63 13 00-0134 EA 39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,112.72                  | 156.32                  |
| 08 63 13 00-0135 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,193.29                  | 161.36                  |
| 08 63 13 00-0136 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,279.16                  | 171.45                  |
| 08 63 13 00-0137 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,439.18                  | 181.53                  |
| 08 63 13 00-0138 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....               | 1,206.02                  | 176.49                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 63 13 00-0139 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,297.69                  | 176.49                  |
| 08 63 13 00-0140 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,397.31                  | 181.53                  |
| 08 63 13 00-0141 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,499.57                  | 186.57                  |
| 08 63 13 00-0142 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....  | 1,622.01                  | 201.70                  |
| 08 63 13 00-0143 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,402.61                  | 181.53                  |
| 08 63 13 00-0144 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,528.20                  | 191.62                  |
| 08 63 13 00-0145 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,643.71                  | 196.66                  |
| 08 63 13 00-0146 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,735.38                  | 206.74                  |
| <b>08 63 13 00-0147 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0111)</small>   |                           |                         |
| <small>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.</small>   |                           |                         |
| 08 63 13 00-0148 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 997.21                    | 146.23                  |
| 08 63 13 00-0149 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,273.24                  | 161.36                  |
| 08 63 13 00-0150 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,222.43                  | 161.36                  |
| 08 63 13 00-0151 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,313.58                  | 171.45                  |
| 08 63 13 00-0152 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,481.55                  | 181.53                  |
| 08 63 13 00-0153 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,329.47                  | 176.49                  |
| 08 63 13 00-0154 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,437.03                  | 181.53                  |
| 08 63 13 00-0155 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,547.24                  | 186.57                  |
| 08 63 13 00-0156 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....  | 1,664.38                  | 201.70                  |
| 08 63 13 00-0157 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,575.87                  | 191.62                  |
| 08 63 13 00-0158 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,696.67                  | 196.66                  |
| 08 63 13 00-0159 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....   | 1,793.64                  | 206.74                  |
| <b>08 63 13 00-0160 Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0001)</small>  |                           |                         |
| <b>08 63 13 00-0161 Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0160)</small>   |                           |                         |
| <small>Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing. Excludes roof curb and flashing.</small> |                           |                         |
| <b>08 63 13 00-0162 Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0161)</small>   |                           |                         |
| <b>08 63 13 00-0163 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0162)</small>   |                           |                         |
| 08 63 13 00-0164 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....   | 3,698.20                  | 201.70                  |
| 08 63 13 00-0165 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....  | 3,437.04                  | 191.62                  |
| 08 63 13 00-0166 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....  | 3,875.63                  | 201.70                  |
| <b>08 63 13 00-0167 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0162)</small>   |                           |                         |
| 08 63 13 00-0168 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....   | 4,754.83                  | 201.70                  |
| 08 63 13 00-0169 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....  | 4,504.27                  | 191.62                  |
| 08 63 13 00-0170 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....  | 4,995.82                  | 201.70                  |
| <b>08 63 13 00-0171 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0162)</small>   |                           |                         |
| 08 63 13 00-0172 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....   | 5,059.37                  | 201.70                  |

**08 Openings****08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 63 13 00-0173 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....              | 4,803.51                  | 191.62                  |
| 08 63 13 00-0174 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....              | 5,295.06                  | 201.70                  |
| <b>08 63 13 00-0175 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0161)</b>   |                           |                         |
| <b>08 63 13 00-0176 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)</b>                           |                           |                         |
| 08 63 13 00-0177 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight ..... | 3,714.09                  | 201.70                  |
| 08 63 13 00-0178 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....  | 3,452.93                  | 191.62                  |
| 08 63 13 00-0179 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....  | 3,899.46                  | 201.70                  |
| <b>08 63 13 00-0180 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)</b>                           |                           |                         |
| 08 63 13 00-0181 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight ..... | 4,776.02                  | 201.70                  |
| 08 63 13 00-0182 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....  | 4,520.16                  | 191.62                  |
| 08 63 13 00-0183 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....  | 5,022.30                  | 201.70                  |
| <b>08 63 13 00-0184 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)</b>                           |                           |                         |
| 08 63 13 00-0185 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight ..... | 5,075.26                  | 201.70                  |
| 08 63 13 00-0186 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....  | 4,819.40                  | 191.62                  |
| 08 63 13 00-0187 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight .....  | 5,321.54                  | 201.70                  |

**08 90 Louvers and Vents (08)****08 91 Louvers (08 90)****08 91 13 Motorized Wall Louvers (08 91)****08 91 13 00-0001 Motorized Wall Louver Actuator (08 91 13)**

See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.

|   |          |        |
|---|----------|--------|
| 08 91 13 00-0002 EA 115 Volt Actuator For Adjustable Intake Louver .....                    | 1,973.82 | 130.54 |
| 08 91 13 00-0003 EA 230 Volt Actuator For Adjustable Intake Louver .....                    | 2,991.51 | 130.54 |
| 08 91 13 00-0004 EA 24 Volt Actuator For Adjustable Intake Louver .....                     | 2,118.88 | 130.54 |
| 08 91 13 00-0005 EA 115 Volt Hazardous Location Actuator For Adjustable Intake Louver ..... | 8,092.40 | 130.54 |

**08 91 16 Operable Wall Louvers (08 91)****08 91 16 00-0001 Adjustable Intake Wall Louvers (08 91 16)**

See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.

|   |        |       |
|---|--------|-------|
| 08 91 16 00-0002 EA 12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum ..... | 534.90 | 34.56 |
| Note: Includes bird screen. Excludes actuator.  |        |       |
| For Flange Frame, Add   | 46.58  |       |
| For Clear Lacquer Finish, Add   | 93.16  |       |
| For Baked Enamel Standard Colors, Add   | 139.73 |       |
| For Anodized Finish, Add  | 186.31 |       |
| For Kynar® Standard Colors Finish, Add  | 256.18 |       |
| 08 91 16 00-0003 EA 12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum ..... | 668.12 | 42.24 |
| Note: Includes bird screen. Excludes actuator.  |        |       |
| For Flange Frame, Add   | 58.36  |       |
| For Clear Lacquer Finish, Add   | 116.73 |       |
| For Baked Enamel Standard Colors, Add   | 175.09 |       |
| For Anodized Finish, Add  | 233.46 |       |
| For Kynar® Standard Colors Finish, Add  | 321.00 |       |
| 08 91 16 00-0004 EA 12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum ..... | 790.01 | 49.92 |
| Note: Includes bird screen. Excludes actuator.  |        |       |
| For Flange Frame, Add   | 69.02  |       |
| For Clear Lacquer Finish, Add   | 138.03 |       |
| For Baked Enamel Standard Colors, Add   | 207.05 |       |
| For Anodized Finish, Add  | 276.07 |       |
| For Kynar® Standard Colors Finish, Add  | 379.59 |       |



|       | MINOR | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-------|---------|-----|---|------------------------|----------------------|
| 08 91 | 16    | 00-0005 | EA  | 12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 924.36                 | 57.60                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 80.92                  |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 161.83                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 242.75                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 323.66                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 445.04                 |                      |
| 08 91 | 16    | 00-0006 | EA  | 12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,041.70               | 65.28                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 91.12                  |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 182.23                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 273.35                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 364.46                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 501.14                 |                      |
| 08 91 | 16    | 00-0007 | EA  | 12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,228.18               | 72.96                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 108.23                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 216.46                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 324.68                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 432.91                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 595.25                 |                      |
| 08 91 | 16    | 00-0008 | EA  | 12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,398.80               | 80.64                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 123.75                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 247.51                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 371.26                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 495.02                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 680.65                 |                      |
| 08 91 | 16    | 00-0009 | EA  | 12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,554.44               | 92.16                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 137.01                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 274.03                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 411.04                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 548.06                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 753.58                 |                      |
| 08 91 | 16    | 00-0010 | EA  | 12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,659.32               | 99.84                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 145.97                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 291.93                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 437.90                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 583.86                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 802.81                 |                      |
| 08 91 | 16    | 00-0011 | EA  | 12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,790.28               | 107.52               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 157.53                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 315.05                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 472.58                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 630.10                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 866.39                 |                      |
| 08 91 | 16    | 00-0012 | EA  | 12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,905.37               | 115.20               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 167.50                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 335.00                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 502.50                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 670.00                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 921.24                 |                      |
| 08 91 | 16    | 00-0013 | EA  | 12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,052.19               | 122.86               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 180.65                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 361.29                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 541.94                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 722.58                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 993.55                 |                      |
| 08 91 | 16    | 00-0014 | EA  | 12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,193.34               | 130.54               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 193.22                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 386.45                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 579.67                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 772.90                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,062.73               |                      |
| 08 91 | 16    | 00-0015 | EA  | 12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,369.38               | 142.06               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 208.52                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 417.05                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 625.57                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 834.10                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,146.88               |                      |
| 08 91 | 16    | 00-0016 | EA  | 12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,500.08               | 153.58               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 219.29                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 438.58                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 657.87                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 877.16                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,206.10               |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 08 91 16 00-0017 | EA  | 18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... | 601.26                    | 42.24                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 51.68                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 103.36                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 155.03                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 206.71                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 284.23                    |                         |
| 08 91 16 00-0018 | EA  | 18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... | 759.16                    | 53.76                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 65.16                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 130.33                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 195.49                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 260.66                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 358.40                    |                         |
| 08 91 16 00-0019 | EA  | 18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... | 890.09                    | 61.44                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 76.72                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 153.45                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 230.17                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 306.89                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 421.98                    |                         |
| 08 91 16 00-0020 | EA  | 18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,107.80                  | 76.80                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 95.42                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 190.84                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 286.27                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 381.69                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 524.82                    |                         |
| 08 91 16 00-0021 | EA  | 18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,259.16                  | 84.48                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 109.02                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 218.04                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 327.07                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 436.09                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 599.62                    |                         |
| 08 91 16 00-0022 | EA  | 18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,410.51                  | 92.16                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 122.62                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 245.24                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 367.86                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 490.48                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 674.42                    |                         |
| 08 91 16 00-0023 | EA  | 18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,591.33                  | 99.84                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 139.17                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 278.33                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 417.50                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 556.67                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 765.42                    |                         |
| 08 91 16 00-0024 | EA  | 18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,765.09                  | 111.36                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 154.24                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 308.48                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 462.72                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 616.96                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 848.31                    |                         |
| 08 91 16 00-0025 | EA  | 18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,904.86                  | 122.86                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 165.91                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 331.82                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 497.74                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 663.65                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 912.52                    |                         |
| 08 91 16 00-0026 | EA  | 18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,038.08                  | 130.54                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 177.70                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 355.40                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 533.09                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 710.79                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 977.34                    |                         |
| 08 91 16 00-0027 | EA  | 18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,163.37                  | 138.22                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 188.69                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 377.38                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 566.07                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 754.76                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,037.80                  |                         |
| 08 91 16 00-0028 | EA  | 18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,324.92                  | 145.90                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 203.31                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 406.62                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 609.93                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 813.24                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,118.21                  |                         |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 91 16 00-0029 | EA  |     | 18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,480.81               | 153.58               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 217.36                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 434.73                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 652.09                 |                      |
|                  |     |     | For Anodized Finish, Add   | 869.45                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,195.50               |                      |
| 08 91 16 00-0030 | EA  |     | 18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,671.58               | 165.10               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 234.14                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 468.27                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 702.41                 |                      |
|                  |     |     | For Anodized Finish, Add   | 936.54                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,287.75               |                      |
| 08 91 16 00-0031 | EA  |     | 18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,816.99               | 176.62               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 246.38                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 492.75                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 739.13                 |                      |
|                  |     |     | For Anodized Finish, Add   | 985.50                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,355.06               |                      |
| 08 91 16 00-0032 | EA  |     | 24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... | 673.28                 | 49.92                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 57.34                  |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 114.69                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 172.03                 |                      |
|                  |     |     | For Anodized Finish, Add   | 229.38                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 315.39                 |                      |
| 08 91 16 00-0033 | EA  |     | 24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... | 853.83                 | 61.44                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 73.10                  |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 146.19                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 219.29                 |                      |
|                  |     |     | For Anodized Finish, Add   | 292.39                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 402.03                 |                      |
| 08 91 16 00-0034 | EA  |     | 24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,057.06               | 72.96                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 91.12                  |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 182.23                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 273.35                 |                      |
|                  |     |     | For Anodized Finish, Add   | 364.46                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 501.14                 |                      |
| 08 91 16 00-0035 | EA  |     | 24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,247.57               | 88.32                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 107.10                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 214.19                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 321.29                 |                      |
|                  |     |     | For Anodized Finish, Add   | 428.38                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 589.02                 |                      |
| 08 91 16 00-0036 | EA  |     | 24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,413.66               | 96.00                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 122.17                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 244.34                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 366.50                 |                      |
|                  |     |     | For Anodized Finish, Add   | 488.67                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 671.92                 |                      |
| 08 91 16 00-0037 | EA  |     | 24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,588.81               | 103.68               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 138.15                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 276.29                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 414.44                 |                      |
|                  |     |     | For Anodized Finish, Add   | 552.59                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 759.81                 |                      |
| 08 91 16 00-0038 | EA  |     | 24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,805.64               | 115.20               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 157.53                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 315.05                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 472.58                 |                      |
|                  |     |     | For Anodized Finish, Add   | 630.10                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 866.39                 |                      |
| 08 91 16 00-0039 | EA  |     | 24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,990.49               | 130.54               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 172.94                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 345.88                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 518.82                 |                      |
|                  |     |     | For Anodized Finish, Add   | 691.76                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 951.16                 |                      |
| 08 91 16 00-0040 | EA  |     | 24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,132.77               | 138.22               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | For Flange Frame, Add  | 185.63                 |                      |
|                  |     |     | For Clear Lacquer Finish, Add  | 371.26                 |                      |
|                  |     |     | For Baked Enamel Standard Colors, Add                                  | 556.89                 |                      |
|                  |     |     | For Anodized Finish, Add   | 742.52                 |                      |
|                  |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,020.97               |                      |



|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 08 91 16 00-0041 | EA  | 24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,290.42                  | 153.58                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 198.32                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 396.65                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 594.97                    |                         |
|                  |     | For Anodized Finish, Add   | 793.30                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 1,090.78                  |                         |
| 08 91 16 00-0042 | EA  | 24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,434.97                  | 161.26                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 211.24                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 422.49                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 633.73                    |                         |
|                  |     | For Anodized Finish, Add   | 844.97                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 1,161.84                  |                         |
| 08 91 16 00-0043 | EA  | 24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,630.53                  | 168.94                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 229.26                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 458.53                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 687.79                    |                         |
|                  |     | For Anodized Finish, Add   | 917.05                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 1,260.95                  |                         |
| 08 91 16 00-0044 | EA  | 24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,796.59                  | 176.62                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 244.34                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 488.67                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 733.01                    |                         |
|                  |     | For Anodized Finish, Add   | 977.34                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 1,343.84                  |                         |
| 08 91 16 00-0045 | EA  | 24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,006.62                  | 188.14                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 263.03                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 526.07                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 789.10                    |                         |
|                  |     | For Anodized Finish, Add   | 1,052.14                  |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 1,446.69                  |                         |
| 08 91 16 00-0046 | EA  | 24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,162.26                  | 199.66                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 276.29                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 552.59                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 828.88                    |                         |
|                  |     | For Anodized Finish, Add   | 1,105.18                  |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 1,519.62                  |                         |
| 08 91 16 00-0047 | EA  | 30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... | 750.97                    | 57.60                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 63.58                     |                         |
|                  |     | For Clear Lacquer Finish, Add  | 127.15                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 190.73                    |                         |
|                  |     | For Anodized Finish, Add   | 254.31                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 349.67                    |                         |
| 08 91 16 00-0048 | EA  | 30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,000.14                  | 76.80                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 84.66                     |                         |
|                  |     | For Clear Lacquer Finish, Add  | 169.31                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 253.97                    |                         |
|                  |     | For Anodized Finish, Add   | 338.62                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 465.61                    |                         |
| 08 91 16 00-0049 | EA  | 30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,186.37                  | 88.32                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 100.98                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 201.95                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 302.93                    |                         |
|                  |     | For Anodized Finish, Add   | 403.90                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 555.36                    |                         |
| 08 91 16 00-0050 | EA  | 30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,389.60                  | 99.84                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 118.99                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 237.99                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 356.98                    |                         |
|                  |     | For Anodized Finish, Add   | 475.98                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 654.47                    |                         |
| 08 91 16 00-0051 | EA  | 30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,570.42                  | 107.52                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 135.54                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 271.08                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 406.62                    |                         |
|                  |     | For Anodized Finish, Add   | 542.16                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 745.47                    |                         |
| 08 91 16 00-0052 | EA  | 30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,758.92                  | 119.02                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | For Flange Frame, Add  | 152.09                    |                         |
|                  |     | For Clear Lacquer Finish, Add  | 304.17                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                                  | 456.26                    |                         |
|                  |     | For Anodized Finish, Add   | 608.34                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                                 | 836.47                    |                         |



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|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 91 16 00-0053 | EA  |     | 30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,982.81               | 126.70               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 172.94                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 345.88                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 518.82                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 691.76                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 951.16                 |                      |
| 08 91 16 00-0054 | EA  |     | 30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,175.84               | 138.22               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 189.94                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 379.88                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 569.81                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 759.75                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,044.66               |                      |
| 08 91 16 00-0055 | EA  |     | 30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,333.99               | 145.90               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 204.22                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 408.43                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 612.65                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 816.87                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,123.19               |                      |
| 08 91 16 00-0056 | EA  |     | 30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,509.77               | 161.26               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 218.72                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 437.45                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 656.17                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 874.89                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,202.98               |                      |
| 08 91 16 00-0057 | EA  |     | 30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,676.72               | 172.78               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 233.12                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 466.23                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 699.35                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 932.46                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,282.14               |                      |
| 08 91 16 00-0058 | EA  |     | 30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,884.73               | 180.46               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 252.38                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 504.76                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 757.14                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,009.52               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,388.10               |                      |
| 08 91 16 00-0059 | EA  |     | 30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,065.55               | 188.14               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 268.93                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 537.85                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 806.78                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,075.71               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,479.10               |                      |
| 08 91 16 00-0060 | EA  |     | 30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,285.78               | 199.66               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 288.65                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 577.29                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 865.94                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,154.58               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,587.55               |                      |
| 08 91 16 00-0061 | EA  |     | 30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,461.82               | 211.18               |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 303.95                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 607.89                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 911.84                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,215.78               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,671.70               |                      |
| 08 91 16 00-0062 | EA  |     | 36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... | 822.97                 | 65.28                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 69.24                  |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 138.49                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 207.73                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 276.97                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 380.84                 |                      |
| 08 91 16 00-0063 | EA  |     | 36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,112.96               | 84.48                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 94.40                  |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 188.80                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 283.21                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 377.61                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 519.21                 |                      |
| 08 91 16 00-0064 | EA  |     | 36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,300.33               | 96.00                |
|                  |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |     |     | <i>For Flange Frame, Add</i>   | 110.84                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>                                   | 221.67                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 332.51                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 443.34                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 609.59                 |                      |

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|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 08 91 16 00-0065 | EA  | 36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,522.83                  | 107.52                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 130.78                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 261.56                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 392.34                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 523.12                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 719.30                    |                         |
| 08 91 16 00-0066 | EA  | 36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,728.26                  | 116.72                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 149.48                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 298.96                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 448.44                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 597.92                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 822.14                    |                         |
| 08 91 16 00-0067 | EA  | 36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,921.61                  | 126.70                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 166.82                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 333.64                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 500.46                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 667.28                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 917.50                    |                         |
| 08 91 16 00-0068 | EA  | 36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,171.56                  | 134.38                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 190.28                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 380.56                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 570.83                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 761.11                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,046.53                  |                         |
| 08 91 16 00-0069 | EA  | 36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,388.39                  | 145.90                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 209.66                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 419.31                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 628.97                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 838.63                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,153.11                  |                         |
| 08 91 16 00-0070 | EA  | 36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,565.55                  | 157.42                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 225.07                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 450.14                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 675.21                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 900.28                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,237.88                  |                         |
| 08 91 16 00-0071 | EA  | 36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,747.25                  | 168.94                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 240.94                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 481.87                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 722.81                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 963.74                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,325.14                  |                         |
| 08 91 16 00-0072 | EA  | 36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,934.60                  | 180.46                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 257.37                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 514.74                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 772.10                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 1,029.47                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,415.52                  |                         |
| 08 91 16 00-0073 | EA  | 36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,161.88                  | 188.14                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 278.56                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 557.12                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 835.68                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 1,114.24                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,532.08                  |                         |
| 08 91 16 00-0074 | EA  | 36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,356.30                  | 195.82                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 296.47                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 592.93                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 889.40                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 1,185.86                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,630.56                  |                         |
| 08 91 16 00-0075 | EA  | 36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,604.86                  | 207.34                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 319.02                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 638.04                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 957.05                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 1,276.07                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,754.60                  |                         |
| 08 91 16 00-0076 | EA  | 36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,791.10                  | 218.86                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                         |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>   | 335.34                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                                   | 670.68                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                           | 1,006.01                  |                         |
|                  |     | <i>For Anodized Finish, Add</i>  | 1,341.35                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                          | 1,844.36                  |                         |



|       | MINOR | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-------|---------|-----|---|------------------------|----------------------|
| 08 91 | 16    | 00-0077 | EA  | 42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 941.46                 | 72.96                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 79.56                  |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 159.11                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 238.67                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 318.22                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 437.56                 |                      |
| 08 91 | 16    | 00-0078 | EA  | 42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,200.85               | 92.16                |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 101.66                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 203.31                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 304.97                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 406.62                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 559.10                 |                      |
| 08 91 | 16    | 00-0079 | EA  | 42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,408.62               | 103.68               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 120.13                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 240.26                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 360.38                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 480.51                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 660.70                 |                      |
| 08 91 | 16    | 00-0080 | EA  | 42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,646.73               | 119.02               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 140.87                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 281.73                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 422.60                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 563.47                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 774.77                 |                      |
| 08 91 | 16    | 00-0081 | EA  | 42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 1,864.94               | 126.70               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 161.15                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 322.30                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 483.46                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 644.61                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 886.34                 |                      |
| 08 91 | 16    | 00-0082 | EA  | 42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,071.83               | 134.38               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 180.31                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 360.61                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 540.92                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 721.22                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 991.68                 |                      |
| 08 91 | 16    | 00-0083 | EA  | 42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,343.31               | 142.06               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 205.92                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 411.83                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 617.75                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 823.67                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,132.54               |                      |
| 08 91 | 16    | 00-0084 | EA  | 42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,563.54               | 153.58               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 225.64                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 451.27                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 676.91                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 902.54                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,241.00               |                      |
| 08 91 | 16    | 00-0085 | EA  | 42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,762.24               | 165.10               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 243.20                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 486.40                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 729.61                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 972.81                 |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,337.61               |                      |
| 08 91 | 16    | 00-0086 | EA  | 42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 2,948.45               | 176.62               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 259.52                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 519.04                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 778.56                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 1,038.08               |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,427.37               |                      |
| 08 91 | 16    | 00-0087 | EA  | 42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 3,151.68               | 188.14               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 277.54                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 555.08                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 832.62                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 1,110.16               |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,526.47               |                      |
| 08 91 | 16    | 00-0088 | EA  | 42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum<br>Note: Includes bird screen. Excludes actuator. | 3,395.97               | 195.82               |
|       |       |         |     | <i>For Flange Frame, Add</i>  | 300.43                 |                      |
|       |       |         |     | <i>For Clear Lacquer Finish, Add</i>  | 600.87                 |                      |
|       |       |         |     | <i>For Baked Enamel Standard Colors, Add</i>  | 901.30                 |                      |
|       |       |         |     | <i>For Anodized Finish, Add</i>   | 1,201.73               |                      |
|       |       |         |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,652.38               |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 91 16 00-0089 EA 42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,608.52                  | 203.50                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 320.15                    |                         |
| For Clear Lacquer Finish, Add  | 640.30                    |                         |
| For Baked Enamel Standard Colors, Add  | 960.46                    |                         |
| For Anodized Finish, Add   | 1,280.61                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,760.84                  |                         |
| 08 91 16 00-0090 EA 42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,886.54                  | 215.02                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 345.65                    |                         |
| For Clear Lacquer Finish, Add  | 691.30                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,036.95                  |                         |
| For Anodized Finish, Add   | 1,382.60                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,901.08                  |                         |
| 08 91 16 00-0091 EA 42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,080.71                  | 226.54                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 362.76                    |                         |
| For Clear Lacquer Finish, Add  | 725.53                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,088.29                  |                         |
| For Anodized Finish, Add   | 1,451.05                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,995.20                  |                         |
| 08 91 16 00-0092 EA 48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,019.15                  | 80.64                   |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 85.79                     |                         |
| For Clear Lacquer Finish, Add  | 171.58                    |                         |
| For Baked Enamel Standard Colors, Add  | 257.37                    |                         |
| For Anodized Finish, Add   | 343.16                    |                         |
| For Kynar® Standard Colors Finish, Add   | 471.84                    |                         |
| 08 91 16 00-0093 EA 48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,294.41                  | 99.84                   |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 109.48                    |                         |
| For Clear Lacquer Finish, Add  | 218.95                    |                         |
| For Baked Enamel Standard Colors, Add  | 328.43                    |                         |
| For Anodized Finish, Add   | 437.90                    |                         |
| For Kynar® Standard Colors Finish, Add   | 602.11                    |                         |
| 08 91 16 00-0094 EA 48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,531.39                  | 115.20                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 130.10                    |                         |
| For Clear Lacquer Finish, Add  | 260.20                    |                         |
| For Baked Enamel Standard Colors, Add  | 390.30                    |                         |
| For Anodized Finish, Add   | 520.40                    |                         |
| For Kynar® Standard Colors Finish, Add   | 715.56                    |                         |
| 08 91 16 00-0095 EA 48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,774.28                  | 126.70                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 152.09                    |                         |
| For Clear Lacquer Finish, Add  | 304.17                    |                         |
| For Baked Enamel Standard Colors, Add  | 456.26                    |                         |
| For Anodized Finish, Add   | 608.34                    |                         |
| For Kynar® Standard Colors Finish, Add   | 836.47                    |                         |
| 08 91 16 00-0096 EA 48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,015.16                  | 134.38                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 174.64                    |                         |
| For Clear Lacquer Finish, Add  | 349.28                    |                         |
| For Baked Enamel Standard Colors, Add  | 523.91                    |                         |
| For Anodized Finish, Add   | 698.55                    |                         |
| For Kynar® Standard Colors Finish, Add   | 960.51                    |                         |
| 08 91 16 00-0097 EA 48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,248.11                  | 142.06                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 196.40                    |                         |
| For Clear Lacquer Finish, Add  | 392.79                    |                         |
| For Baked Enamel Standard Colors, Add  | 589.19                    |                         |
| For Anodized Finish, Add   | 785.59                    |                         |
| For Kynar® Standard Colors Finish, Add   | 1,080.18                  |                         |
| 08 91 16 00-0098 EA 48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,538.61                  | 153.58                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 223.14                    |                         |
| For Clear Lacquer Finish, Add  | 446.29                    |                         |
| For Baked Enamel Standard Colors, Add  | 669.43                    |                         |
| For Anodized Finish, Add   | 892.57                    |                         |
| For Kynar® Standard Colors Finish, Add   | 1,227.29                  |                         |
| 08 91 16 00-0099 EA 48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,779.24                  | 165.10                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 244.90                    |                         |
| For Clear Lacquer Finish, Add  | 489.80                    |                         |
| For Baked Enamel Standard Colors, Add  | 734.71                    |                         |
| For Anodized Finish, Add   | 979.61                    |                         |
| For Kynar® Standard Colors Finish, Add   | 1,346.96                  |                         |
| 08 91 16 00-0100 EA 48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,988.12                  | 176.62                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 263.49                    |                         |
| For Clear Lacquer Finish, Add  | 526.98                    |                         |
| For Baked Enamel Standard Colors, Add  | 790.46                    |                         |
| For Anodized Finish, Add   | 1,053.95                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,449.18                  |                         |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 08 91 16 00-0101 | EA  |     | 48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 3,200.41               | 188.14               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 282.41                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 564.83                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 847.24                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,129.65               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,553.27               |                      |
| 08 91 16 00-0102 | EA  |     | 48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 3,408.18               | 199.66               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 300.89                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 601.77                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 902.66                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,203.54               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,654.87               |                      |
| 08 91 16 00-0103 | EA  |     | 48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 3,684.19               | 207.34               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 326.95                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 653.90                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 980.85                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,307.80               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,798.23               |                      |
| 08 91 16 00-0104 | EA  |     | 48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 3,913.74               | 215.02               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 348.37                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 696.74                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,045.11               |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,393.48               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,916.04               |                      |
| 08 91 16 00-0105 | EA  |     | 48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 4,196.56               | 222.70               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 375.12                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 750.23                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,125.35               |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,500.46               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,063.14               |                      |
| 08 91 16 00-0106 | EA  |     | 48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 4,409.99               | 234.22               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 394.16                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 788.31                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,182.47               |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 1,576.62               |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,167.85               |                      |
| 08 91 16 00-0107 | EA  |     | 54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,182.72               | 92.16                |
|                  |     |     | <i>For Flange Frame, Add</i>   | 99.84                  |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 199.68                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 299.53                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 399.37                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 549.13                 |                      |
| 08 91 16 00-0108 | EA  |     | 54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,514.64               | 111.36               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 129.19                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 258.39                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 387.58                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 516.78                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 710.57                 |                      |
| 08 91 16 00-0109 | EA  |     | 54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,775.16               | 130.54               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 151.41                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 302.81                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 454.22                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 605.62                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 832.73                 |                      |
| 08 91 16 00-0110 | EA  |     | 54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 2,036.44               | 138.22               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 176.00                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 352.00                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 527.99                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 703.99                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 967.99                 |                      |
| 08 91 16 00-0111 | EA  |     | 54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 2,320.39               | 145.90               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 202.86                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 405.71                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 608.57                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 811.43                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,115.71               |                      |
| 08 91 16 00-0112 | EA  |     | 54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 2,574.87               | 153.58               |
|                  |     |     | <i>For Flange Frame, Add</i>   | 226.77                 |                      |
|                  |     |     | <i>For Clear Lacquer Finish, Add</i>   | 453.54                 |                      |
|                  |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 680.31                 |                      |
|                  |     |     | <i>For Anodized Finish, Add</i>  | 907.08                 |                      |
|                  |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,247.23               |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 91 16 00-0113 EA 54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,911.83                  | 165.10                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 258.16                    |                         |
| For Clear Lacquer Finish, Add  | 516.32                    |                         |
| For Baked Enamel Standard Colors, Add  | 774.48                    |                         |
| For Anodized Finish, Add   | 1,032.64                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,419.89                  |                         |
| 08 91 16 00-0114 EA 54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,239.70                  | 176.62                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 288.65                    |                         |
| For Clear Lacquer Finish, Add  | 577.29                    |                         |
| For Baked Enamel Standard Colors, Add  | 865.94                    |                         |
| For Anodized Finish, Add   | 1,154.58                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,587.55                  |                         |
| 08 91 16 00-0115 EA 54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,486.00                  | 188.14                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 310.97                    |                         |
| For Clear Lacquer Finish, Add  | 621.94                    |                         |
| For Baked Enamel Standard Colors, Add  | 932.92                    |                         |
| For Anodized Finish, Add   | 1,243.89                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,710.35                  |                         |
| 08 91 16 00-0116 EA 54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,728.90                  | 199.66                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 332.96                    |                         |
| For Clear Lacquer Finish, Add  | 665.92                    |                         |
| For Baked Enamel Standard Colors, Add  | 998.87                    |                         |
| For Anodized Finish, Add   | 1,331.83                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,831.27                  |                         |
| 08 91 16 00-0117 EA 54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,961.85                  | 207.34                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 354.72                    |                         |
| For Clear Lacquer Finish, Add  | 709.43                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,064.15                  |                         |
| For Anodized Finish, Add   | 1,418.87                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,950.94                  |                         |
| 08 91 16 00-0118 EA 54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,269.59                  | 215.02                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 383.96                    |                         |
| For Clear Lacquer Finish, Add  | 767.91                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,151.87                  |                         |
| For Anodized Finish, Add   | 1,535.82                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,111.75                  |                         |
| 08 91 16 00-0119 EA 54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,526.34                  | 222.70                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 408.09                    |                         |
| For Clear Lacquer Finish, Add  | 816.19                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,224.28                  |                         |
| For Anodized Finish, Add   | 1,632.38                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,244.52                  |                         |
| 08 91 16 00-0120 EA 54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,856.75                  | 230.38                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 439.60                    |                         |
| For Clear Lacquer Finish, Add  | 879.20                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,318.80                  |                         |
| For Anodized Finish, Add   | 1,758.40                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,417.79                  |                         |
| 08 91 16 00-0121 EA 54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 5,105.32                  | 241.90                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 462.15                    |                         |
| For Clear Lacquer Finish, Add  | 924.30                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,386.46                  |                         |
| For Anodized Finish, Add   | 1,848.61                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,541.84                  |                         |
| 08 91 16 00-0122 EA 60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,255.88                  | 99.84                   |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 105.62                    |                         |
| For Clear Lacquer Finish, Add  | 211.24                    |                         |
| For Baked Enamel Standard Colors, Add  | 316.87                    |                         |
| For Anodized Finish, Add   | 422.49                    |                         |
| For Kynar® Standard Colors Finish, Add   | 580.92                    |                         |
| 08 91 16 00-0123 EA 60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,615.88                  | 122.86                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 137.01                    |                         |
| For Clear Lacquer Finish, Add  | 274.03                    |                         |
| For Baked Enamel Standard Colors, Add  | 411.04                    |                         |
| For Anodized Finish, Add   | 548.06                    |                         |
| For Kynar® Standard Colors Finish, Add   | 753.58                    |                         |
| 08 91 16 00-0124 EA 60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... | 1,881.18                  | 138.22                  |
| Note: Includes bird screen. Excludes actuator.   |                           |                         |
| For Flange Frame, Add  | 160.47                    |                         |
| For Clear Lacquer Finish, Add  | 320.94                    |                         |
| For Baked Enamel Standard Colors, Add  | 481.42                    |                         |
| For Anodized Finish, Add   | 641.89                    |                         |
| For Kynar® Standard Colors Finish, Add   | 882.60                    |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 08 91 16 00-0125 | EA    |     |     | 60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,168.53               | 145.90               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 187.67                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 375.34                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 563.01                 |                      |
|                  |       |     |     | For Anodized Finish, Add   | 750.68                 |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,032.19               |                      |
| 08 91 16 00-0126 | EA    |     |     | 60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,470.36               | 157.42               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 215.55                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 431.10                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 646.65                 |                      |
|                  |       |     |     | For Anodized Finish, Add   | 862.20                 |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,185.53               |                      |
| 08 91 16 00-0127 | EA    |     |     | 60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... | 2,739.57               | 165.10               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 240.94                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 481.87                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 722.81                 |                      |
|                  |       |     |     | For Anodized Finish, Add   | 963.74                 |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,325.14               |                      |
| 08 91 16 00-0128 | EA    |     |     | 60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,100.31               | 176.62               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 274.71                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 549.41                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 824.12                 |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,098.83               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,510.89               |                      |
| 08 91 16 00-0129 | EA    |     |     | 60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,437.27               | 188.14               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 306.10                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 612.20                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 918.30                 |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,224.40               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,683.54               |                      |
| 08 91 16 00-0130 | EA    |     |     | 60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,700.56               | 199.66               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 330.12                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 660.25                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 990.37                 |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,320.50               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,815.68               |                      |
| 08 91 16 00-0131 | EA    |     |     | 60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... | 3,959.33               | 211.18               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 353.70                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 707.39                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 1,061.09               |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,414.79               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 1,945.33               |                      |
| 08 91 16 00-0132 | EA    |     |     | 60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,207.01               | 218.86               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 376.93                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 753.86                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 1,130.79               |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,507.72               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 2,073.11               |                      |
| 08 91 16 00-0133 | EA    |     |     | 60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,540.82               | 226.54               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 408.77                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 817.55                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 1,226.32               |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,635.10               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 2,248.26               |                      |
| 08 91 16 00-0134 | EA    |     |     | 60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... | 4,810.04               | 234.22               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 434.16                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 868.32                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 1,302.48               |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,736.64               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 2,387.88               |                      |
| 08 91 16 00-0135 | EA    |     |     | 60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... | 5,157.45               | 241.90               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 467.37                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 934.73                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 1,402.10               |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,869.46               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 2,570.51               |                      |
| 08 91 16 00-0136 | EA    |     |     | 60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... | 5,413.06               | 249.58               |
|                  |       |     |     | Note: Includes bird screen. Excludes actuator.                         |                        |                      |
|                  |       |     |     | For Flange Frame, Add  | 491.39                 |                      |
|                  |       |     |     | For Clear Lacquer Finish, Add  | 982.78                 |                      |
|                  |       |     |     | For Baked Enamel Standard Colors, Add                                  | 1,474.17               |                      |
|                  |       |     |     | For Anodized Finish, Add   | 1,965.56               |                      |
|                  |       |     |     | For Kynar® Standard Colors Finish, Add                                 | 2,702.65               |                      |

08 91 16 00-0137 Adjustable Intake Wall Louvers Operators (08 91 16)



|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 08 91 16 00-0138        | EA  |     | 5' Chain Actuator For Adjustable Intake Louver.....                | 321.59                 | 38.40                |
| 08 91 16 00-0139        | EA  |     | Panel Crank For Adjustable Intake Louver .....                     | 685.76                 | 15.36                |
| <b>08 91 19</b>         |     |     | <b>Fixed Louvers (08 91)</b>                                       |                        |                      |
| <b>08 91 19 00-0001</b> |     |     | <b>Fixed Intake Wall Louvers (08 91 19)</b>                        |                        |                      |
| 08 91 19 00-0002        | EA  |     | 12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum ..... | 411.37                 | 34.56                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 34.23                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 68.45                  |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 102.68                 |                      |
|                         |     |     | For Anodized Finish, Add   | 136.90                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 188.24                 |                      |
| 08 91 19 00-0003        | EA  |     | 12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum ..... | 489.06                 | 42.24                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 40.46                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 80.92                  |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 121.37                 |                      |
|                         |     |     | For Anodized Finish, Add   | 161.83                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 222.52                 |                      |
| 08 91 19 00-0004        | EA  |     | 12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum ..... | 567.88                 | 49.92                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 46.80                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 93.61                  |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 140.41                 |                      |
|                         |     |     | For Anodized Finish, Add   | 187.22                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 257.42                 |                      |
| 08 91 19 00-0005        | EA  |     | 12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum ..... | 665.97                 | 57.60                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 55.08                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 110.15                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 165.23                 |                      |
|                         |     |     | For Anodized Finish, Add   | 220.31                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 302.92                 |                      |
| 08 91 19 00-0006        | EA  |     | 12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum ..... | 749.31                 | 65.28                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 61.88                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 123.75                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 185.63                 |                      |
|                         |     |     | For Anodized Finish, Add   | 247.51                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 340.32                 |                      |
| 08 91 19 00-0007        | EA  |     | 12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum ..... | 882.53                 | 72.96                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 73.66                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 147.33                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 220.99                 |                      |
|                         |     |     | For Anodized Finish, Add   | 294.65                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 405.15                 |                      |
| 08 91 19 00-0008        | EA  |     | 12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum ..... | 956.82                 | 80.64                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 79.56                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 159.11                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 238.67                 |                      |
|                         |     |     | For Anodized Finish, Add   | 318.22                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 437.56                 |                      |
| 08 91 19 00-0009        | EA  |     | 12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum ..... | 1,070.52               | 92.16                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 88.62                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 177.24                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 265.87                 |                      |
|                         |     |     | For Anodized Finish, Add   | 354.49                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 487.42                 |                      |
| 08 91 19 00-0010        | EA  |     | 12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum ..... | 1,139.15               | 99.84                |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 93.95                  |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 187.90                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 281.85                 |                      |
|                         |     |     | For Anodized Finish, Add   | 375.80                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 516.72                 |                      |
| 08 91 19 00-0011        | EA  |     | 12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum ..... | 1,231.57               | 107.52               |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 101.66                 |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 203.31                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 304.97                 |                      |
|                         |     |     | For Anodized Finish, Add   | 406.62                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 559.10                 |                      |
| 08 91 19 00-0012        | EA  |     | 12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum ..... | 1,312.66               | 115.20               |
|                         |     |     | Note: Includes bird screen. Excludes actuator.                     |                        |                      |
|                         |     |     | For Flange Frame, Add  | 108.23                 |                      |
|                         |     |     | For Clear Lacquer Finish, Add                                      | 216.46                 |                      |
|                         |     |     | For Baked Enamel Standard Colors, Add                              | 324.68                 |                      |
|                         |     |     | For Anodized Finish, Add   | 432.91                 |                      |
|                         |     |     | For Kynar® Standard Colors Finish, Add                             | 595.25                 |                      |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 08 91 | 19 00-0013 | EA  | 12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,408.49               | 122.86               |
|       |            |     | <i>For Flange Frame, Add</i>  | 116.28                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 232.55                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 348.83                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 465.10                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 639.51                 |                      |
| 08 91 | 19 00-0014 | EA  | 12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,498.64               | 130.54               |
|       |            |     | <i>For Flange Frame, Add</i>  | 123.75                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 247.51                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 371.26                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 495.02                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 680.65                 |                      |
| 08 91 | 19 00-0015 | EA  | 12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,580.61               | 142.06               |
|       |            |     | <i>For Flange Frame, Add</i>  | 129.65                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 259.29                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 388.94                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 518.59                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 713.06                 |                      |
| 08 91 | 19 00-0016 | EA  | 12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,688.65               | 153.58               |
|       |            |     | <i>For Flange Frame, Add</i>  | 138.15                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 276.29                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 414.44                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 552.59                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 759.81                 |                      |
| 08 91 | 19 00-0017 | EA  | 18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 478.86                 | 42.24                |
|       |            |     | <i>For Flange Frame, Add</i>  | 39.44                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 78.88                  |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 118.31                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 157.75                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 216.91                 |                      |
| 08 91 | 19 00-0018 | EA  | 18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 575.56                 | 53.76                |
|       |            |     | <i>For Flange Frame, Add</i>  | 46.80                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 93.61                  |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 140.41                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 187.22                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 257.42                 |                      |
| 08 91 | 19 00-0019 | EA  | 18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 666.83                 | 61.44                |
|       |            |     | <i>For Flange Frame, Add</i>  | 54.40                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 108.79                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 163.19                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 217.59                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 299.18                 |                      |
| 08 91 | 19 00-0020 | EA  | 18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 835.81                 | 76.80                |
|       |            |     | <i>For Flange Frame, Add</i>  | 68.22                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 136.45                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 204.67                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 272.89                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 375.23                 |                      |
| 08 91 | 19 00-0021 | EA  | 18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 957.70                 | 84.48                |
|       |            |     | <i>For Flange Frame, Add</i>  | 78.88                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 157.75                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 236.63                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 315.50                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 433.82                 |                      |
| 08 91 | 19 00-0022 | EA  | 18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,065.99               | 92.16                |
|       |            |     | <i>For Flange Frame, Add</i>  | 88.17                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 176.34                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 264.51                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 352.68                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 484.93                 |                      |
| 08 91 | 19 00-0023 | EA  | 18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,143.68               | 99.84                |
|       |            |     | <i>For Flange Frame, Add</i>  | 94.40                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 188.80                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 283.21                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 377.61                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 519.21                 |                      |
| 08 91 | 19 00-0024 | EA  | 18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,273.25               | 111.36               |
|       |            |     | <i>For Flange Frame, Add</i>  | 105.06                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 210.11                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 315.17                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 420.22                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 577.80                 |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 08 91 19 00-0025 | EA  | 18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... | 1,365.42                  | 122.86                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 111.97                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 223.94                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 335.90                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 447.87                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 615.82                    |                         |
| 08 91 19 00-0026 | EA  | 18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... | 1,482.78                  | 130.54                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 122.17                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 244.34                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 366.50                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 488.67                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 671.92                    |                         |
| 08 91 19 00-0027 | EA  | 18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... | 1,572.93                  | 138.22                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 129.65                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 259.29                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 388.94                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 518.59                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 713.06                    |                         |
| 08 91 19 00-0028 | EA  | 18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... | 1,673.29                  | 145.90                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 138.15                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 276.29                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 414.44                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 552.59                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 759.81                    |                         |
| 08 91 19 00-0029 | EA  | 18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... | 1,778.18                  | 153.58                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 147.10                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 294.20                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 441.30                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 588.40                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 809.05                    |                         |
| 08 91 19 00-0030 | EA  | 18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... | 1,872.61                  | 165.10                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 154.24                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 308.48                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 462.72                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 616.96                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 848.31                    |                         |
| 08 91 19 00-0031 | EA  | 18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... | 2,002.16                  | 176.62                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 164.89                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 329.78                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 494.68                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 659.57                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 906.91                    |                         |
| 08 91 19 00-0032 | EA  | 24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... | 554.29                    | 49.92                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 45.45                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 90.89                     |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 136.34                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 181.78                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 249.95                    |                         |
| 08 91 19 00-0033 | EA  | 24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... | 661.17                    | 61.44                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 53.83                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 107.66                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 161.49                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 215.32                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 296.07                    |                         |
| 08 91 19 00-0034 | EA  | 24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... | 817.94                    | 72.96                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 67.20                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 134.41                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 201.61                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 268.82                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 369.62                    |                         |
| 08 91 19 00-0035 | EA  | 24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... | 965.38                    | 88.32                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 78.88                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 157.75                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 236.63                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 315.50                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 433.82                    |                         |
| 08 91 19 00-0036 | EA  | 24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... | 1,103.14                  | 96.00                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 91.12                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 182.23                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 273.35                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 364.46                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 501.14                    |                         |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 08 91 | 19 00-0037 | EA  | 24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,230.69               | 103.68               |
|       |            |     | <i>For Flange Frame, Add</i>  | 102.34                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 204.67                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 307.01                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 409.34                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 562.84                 |                      |
| 08 91 | 19 00-0038 | EA  | 24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,338.73               | 115.20               |
|       |            |     | <i>For Flange Frame, Add</i>  | 110.84                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 221.67                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 332.51                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 443.34                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 609.59                 |                      |
| 08 91 | 19 00-0039 | EA  | 24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,482.78               | 130.54               |
|       |            |     | <i>For Flange Frame, Add</i>  | 122.17                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 244.34                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 366.50                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 488.67                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 671.92                 |                      |
| 08 91 | 19 00-0040 | EA  | 24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,577.47               | 138.22               |
|       |            |     | <i>For Flange Frame, Add</i>  | 130.10                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 260.20                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 390.30                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 520.40                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 715.56                 |                      |
| 08 91 | 19 00-0041 | EA  | 24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,733.98               | 153.58               |
|       |            |     | <i>For Flange Frame, Add</i>  | 142.68                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 285.36                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 428.04                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 570.72                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 784.74                 |                      |
| 08 91 | 19 00-0042 | EA  | 24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,832.07               | 161.26               |
|       |            |     | <i>For Flange Frame, Add</i>  | 150.95                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 301.91                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 452.86                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 603.81                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 830.24                 |                      |
| 08 91 | 19 00-0043 | EA  | 24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 1,958.49               | 168.94               |
|       |            |     | <i>For Flange Frame, Add</i>  | 162.06                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 324.12                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 486.18                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 648.24                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 891.32                 |                      |
| 08 91 | 19 00-0044 | EA  | 24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 2,082.63               | 176.62               |
|       |            |     | <i>For Flange Frame, Add</i>  | 172.94                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 345.88                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 518.82                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 691.76                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 951.16                 |                      |
| 08 91 | 19 00-0045 | EA  | 24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 2,179.33               | 188.14               |
|       |            |     | <i>For Flange Frame, Add</i>  | 180.31                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 360.61                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 540.92                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 721.22                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 991.68                 |                      |
| 08 91 | 19 00-0046 | EA  | 24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 2,336.10               | 199.66               |
|       |            |     | <i>For Flange Frame, Add</i>  | 193.68                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 387.36                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 581.03                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 774.71                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 1,065.23               |                      |
| 08 91 | 19 00-0047 | EA  | 30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 621.78                 | 57.60                |
|       |            |     | <i>For Flange Frame, Add</i>  | 50.66                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 101.32                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 151.97                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 202.63                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 278.62                 |                      |
| 08 91 | 19 00-0048 | EA  | 30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator. | 805.22                 | 76.80                |
|       |            |     | <i>For Flange Frame, Add</i>  | 65.16                  |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>  | 130.33                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>  | 195.49                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>   | 260.66                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>   | 358.40                 |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 08 91 19 00-0049 | EA  | 30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... | 939.32                    | 88.32                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 76.27                     |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 152.54                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 228.81                    |                         |
|                  |     | For Anodized Finish, Add  | 305.08                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 419.49                    |                         |
| 08 91 19 00-0050 | EA  | 30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... | 1,094.95                  | 99.84                   |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 89.53                     |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 179.06                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 268.59                    |                         |
|                  |     | For Anodized Finish, Add  | 358.12                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 492.41                    |                         |
| 08 91 19 00-0051 | EA  | 30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... | 1,259.90                  | 107.52                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 104.49                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 208.98                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 313.46                    |                         |
|                  |     | For Anodized Finish, Add  | 417.95                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 574.68                    |                         |
| 08 91 19 00-0052 | EA  | 30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... | 1,400.81                  | 119.02                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 116.28                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 232.55                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 348.83                    |                         |
|                  |     | For Anodized Finish, Add  | 465.10                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 639.51                    |                         |
| 08 91 19 00-0053 | EA  | 30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... | 1,505.69                  | 126.70                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 125.23                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 250.45                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 375.68                    |                         |
|                  |     | For Anodized Finish, Add  | 500.91                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 688.75                    |                         |
| 08 91 19 00-0054 | EA  | 30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... | 1,653.40                  | 138.22                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 137.69                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 275.39                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 413.08                    |                         |
|                  |     | For Anodized Finish, Add  | 550.78                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 757.32                    |                         |
| 08 91 19 00-0055 | EA  | 30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... | 1,770.75                  | 145.90                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 147.89                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 295.79                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 443.68                    |                         |
|                  |     | For Anodized Finish, Add  | 591.57                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 813.41                    |                         |
| 08 91 19 00-0056 | EA  | 30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... | 1,951.06                  | 161.26                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 162.85                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 325.70                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 488.56                    |                         |
|                  |     | For Anodized Finish, Add  | 651.41                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 895.69                    |                         |
| 08 91 19 00-0057 | EA  | 30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... | 2,067.01                  | 172.78                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 172.15                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 344.29                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 516.44                    |                         |
|                  |     | For Anodized Finish, Add  | 688.58                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 946.80                    |                         |
| 08 91 19 00-0058 | EA  | 30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... | 2,201.37                  | 180.46                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 184.05                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 368.09                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 552.14                    |                         |
|                  |     | For Anodized Finish, Add  | 736.18                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 1,012.25                  |                         |
| 08 91 19 00-0059 | EA  | 30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... | 2,334.59                  | 188.14                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 195.83                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 391.66                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 587.49                    |                         |
|                  |     | For Anodized Finish, Add  | 783.32                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 1,077.07                  |                         |
| 08 91 19 00-0060 | EA  | 30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... | 2,448.29                  | 199.66                  |
|                  |     | Note: Includes bird screen. Excludes actuator.                    |                           |                         |
|                  |     | For Flange Frame, Add   | 204.90                    |                         |
|                  |     | For Clear Lacquer Finish, Add                                     | 409.79                    |                         |
|                  |     | For Baked Enamel Standard Colors, Add                             | 614.69                    |                         |
|                  |     | For Anodized Finish, Add  | 819.59                    |                         |
|                  |     | For Kynar® Standard Colors Finish, Add                            | 1,126.93                  |                         |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                                       | DEMOLITION UNIT COST |
|-------|------------|-----|---|--|----------------------|
| 08 91 | 19 00-0061 | EA  | 30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,625.46<br>220.31<br>440.62<br>660.93<br>881.24<br>1,211.71 | 211.18               |
| 08 91 | 19 00-0062 | EA  | 36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 690.38<br>55.98<br>111.97<br>167.95<br>223.94<br>307.91      | 65.28                |
| 08 91 | 19 00-0063 | EA  | 36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 905.57<br>73.66<br>147.33<br>220.99<br>294.65<br>405.15      | 84.48                |
| 08 91 | 19 00-0064 | EA  | 36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,046.47<br>85.45<br>170.90<br>256.35<br>341.80<br>469.97    | 96.00                |
| 08 91 | 19 00-0065 | EA  | 36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. Excludes actuator.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,213.44<br>99.84<br>199.68<br>299.53<br>399.37<br>549.13    | 107.52               |
| 08 91 | 19 00-0066 | EA  | 36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 1,399.61<br>116.62<br>233.23<br>349.85<br>466.46<br>641.38   | 116.72               |
| 08 91 | 19 00-0067 | EA  | 36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 1,545.36<br>129.19<br>258.39<br>387.58<br>516.78<br>710.57   | 126.70               |
| 08 91 | 19 00-0068 | EA  | 36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 1,670.65<br>140.19<br>280.37<br>420.56<br>560.75<br>771.03   | 134.38               |
| 08 91 | 19 00-0069 | EA  | 36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 1,838.75<br>154.69<br>309.39<br>464.08<br>618.77<br>850.81   | 145.90               |
| 08 91 | 19 00-0070 | EA  | 36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 1,967.18<br>165.23<br>330.46<br>495.70<br>660.93<br>908.78   | 157.42               |
| 08 91 | 19 00-0071 | EA  | 36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 2,168.15<br>183.03<br>366.05<br>549.08<br>732.10<br>1,006.64 | 168.94               |
| 08 91 | 19 00-0072 | EA  | 36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i>                    | 2,302.23<br>194.13<br>388.26<br>582.39<br>776.52<br>1,067.72 | 180.46               |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 91 19 00-0073 EA 36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... | 2,445.65                  | 188.14                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 206.94                    |                         |
| For Clear Lacquer Finish, Add   | 413.87                    |                         |
| For Baked Enamel Standard Colors, Add   | 620.81                    |                         |
| For Anodized Finish, Add  | 827.75                    |                         |
| For Kynar® Standard Colors Finish, Add  | 1,138.15                  |                         |
| 08 91 19 00-0074 EA 36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... | 2,594.74                  | 195.82                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 220.31                    |                         |
| For Clear Lacquer Finish, Add   | 440.62                    |                         |
| For Baked Enamel Standard Colors, Add   | 660.93                    |                         |
| For Anodized Finish, Add  | 881.24                    |                         |
| For Kynar® Standard Colors Finish, Add  | 1,211.71                  |                         |
| 08 91 19 00-0075 EA 36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... | 2,724.30                  | 207.34                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 230.96                    |                         |
| For Clear Lacquer Finish, Add   | 461.92                    |                         |
| For Baked Enamel Standard Colors, Add   | 692.89                    |                         |
| For Anodized Finish, Add  | 923.85                    |                         |
| For Kynar® Standard Colors Finish, Add  | 1,270.29                  |                         |
| 08 91 19 00-0076 EA 36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... | 2,924.14                  | 218.86                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 248.64                    |                         |
| For Clear Lacquer Finish, Add   | 497.28                    |                         |
| For Baked Enamel Standard Colors, Add   | 745.93                    |                         |
| For Anodized Finish, Add  | 994.57                    |                         |
| For Kynar® Standard Colors Finish, Add  | 1,367.53                  |                         |
| 08 91 19 00-0077 EA 42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... | 802.07                    | 72.96                   |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 65.62                     |                         |
| For Clear Lacquer Finish, Add   | 131.23                    |                         |
| For Baked Enamel Standard Colors, Add   | 196.85                    |                         |
| For Anodized Finish, Add  | 262.47                    |                         |
| For Kynar® Standard Colors Finish, Add  | 360.89                    |                         |
| 08 91 19 00-0078 EA 42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... | 984.40                    | 92.16                   |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 80.01                     |                         |
| For Clear Lacquer Finish, Add   | 160.02                    |                         |
| For Baked Enamel Standard Colors, Add   | 240.03                    |                         |
| For Anodized Finish, Add  | 320.04                    |                         |
| For Kynar® Standard Colors Finish, Add  | 440.06                    |                         |
| 08 91 19 00-0079 EA 42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... | 1,140.03                  | 103.68                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 93.27                     |                         |
| For Clear Lacquer Finish, Add   | 186.54                    |                         |
| For Baked Enamel Standard Colors, Add   | 279.81                    |                         |
| For Anodized Finish, Add  | 373.08                    |                         |
| For Kynar® Standard Colors Finish, Add  | 512.98                    |                         |
| 08 91 19 00-0080 EA 42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... | 1,332.81                  | 119.02                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 109.48                    |                         |
| For Clear Lacquer Finish, Add   | 218.95                    |                         |
| For Baked Enamel Standard Colors, Add   | 328.43                    |                         |
| For Anodized Finish, Add  | 437.90                    |                         |
| For Kynar® Standard Colors Finish, Add  | 602.11                    |                         |
| 08 91 19 00-0081 EA 42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... | 1,534.03                  | 126.70                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 128.06                    |                         |
| For Clear Lacquer Finish, Add   | 256.12                    |                         |
| For Baked Enamel Standard Colors, Add   | 384.18                    |                         |
| For Anodized Finish, Add  | 512.24                    |                         |
| For Kynar® Standard Colors Finish, Add  | 704.34                    |                         |
| 08 91 19 00-0082 EA 42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... | 1,695.58                  | 134.38                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 142.68                    |                         |
| For Clear Lacquer Finish, Add   | 285.36                    |                         |
| For Baked Enamel Standard Colors, Add   | 428.04                    |                         |
| For Anodized Finish, Add  | 570.72                    |                         |
| For Kynar® Standard Colors Finish, Add  | 784.74                    |                         |
| 08 91 19 00-0083 EA 42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... | 1,835.60                  | 142.06                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 155.15                    |                         |
| For Clear Lacquer Finish, Add   | 310.29                    |                         |
| For Baked Enamel Standard Colors, Add   | 465.44                    |                         |
| For Anodized Finish, Add  | 620.58                    |                         |
| For Kynar® Standard Colors Finish, Add  | 853.30                    |                         |
| 08 91 19 00-0084 EA 42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... | 2,003.70                  | 153.58                  |
| Note: Includes bird screen.   |                           |                         |
| For Flange Frame, Add   | 169.65                    |                         |
| For Clear Lacquer Finish, Add   | 339.30                    |                         |
| For Baked Enamel Standard Colors, Add   | 508.96                    |                         |
| For Anodized Finish, Add  | 678.61                    |                         |
| For Kynar® Standard Colors Finish, Add  | 933.09                    |                         |



|       | MINOR      | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|-----|---|------------------------|----------------------|
| 08 91 | 19 00-0085 | EA  |     | 42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... | 2,148.00               | 165.10               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 181.78                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 363.56                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 545.33                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 727.11                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 999.78                 |                      |
| 08 91 | 19 00-0086 | EA  |     | 42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... | 2,370.48               | 176.62               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 201.72                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 403.45                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 605.17                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 806.90                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,109.48               |                      |
| 08 91 | 19 00-0087 | EA  |     | 42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... | 2,514.78               | 188.14               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 213.85                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 427.70                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 641.55                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 855.40                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,176.18               |                      |
| 08 91 | 19 00-0088 | EA  |     | 42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... | 2,676.33               | 195.82               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 228.47                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 456.94                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 685.41                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 913.88                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,256.58               |                      |
| 08 91 | 19 00-0089 | EA  |     | 42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... | 2,839.02               | 203.50               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 243.20                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 486.40                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 729.61                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 972.81                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,337.61               |                      |
| 08 91 | 19 00-0090 | EA  |     | 42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... | 2,991.25               | 215.02               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 256.12                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 512.24                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 768.36                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,024.48               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,408.67               |                      |
| 08 91 | 19 00-0091 | EA  |     | 42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... | 3,205.82               | 226.54               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 275.27                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 550.55                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 825.82                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,101.10               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,514.01               |                      |
| 08 91 | 19 00-0092 | EA  |     | 48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... | 877.49                 | 80.64                |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 71.62                  |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 143.25                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 214.87                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 286.49                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 393.93                 |                      |
| 08 91 | 19 00-0093 | EA  |     | 48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... | 1,075.69               | 99.84                |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 87.60                  |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 175.21                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 262.81                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 350.41                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 481.82                 |                      |
| 08 91 | 19 00-0094 | EA  |     | 48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... | 1,259.40               | 115.20               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 102.90                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 205.80                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 308.71                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 411.61                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 565.96                 |                      |
| 08 91 | 19 00-0095 | EA  |     | 48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... | 1,447.90               | 126.70               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 119.45                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 238.90                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 358.34                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 477.79                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 656.96                 |                      |
| 08 91 | 19 00-0096 | EA  |     | 48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... | 1,677.45               | 134.38               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 140.87                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 281.73                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 422.60                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 563.47                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 774.77                 |                      |



|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 08 91 19 00-0097 | EA  | 48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... | 1,863.93                  | 142.06                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 157.98                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 315.96                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 473.94                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 631.92                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 868.88                    |                         |
| 08 91 19 00-0098 | EA  | 48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... | 2,019.57                  | 153.58                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 171.24                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 342.48                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 513.72                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 684.96                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 941.81                    |                         |
| 08 91 19 00-0099 | EA  | 48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... | 2,262.46                  | 165.10                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 193.22                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 386.45                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 579.67                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 772.90                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,062.73                  |                         |
| 08 91 19 00-0100 | EA  | 48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... | 2,370.48                  | 176.62                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 201.72                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 403.45                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 605.17                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 806.90                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,109.48                  |                         |
| 08 91 19 00-0101 | EA  | 48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... | 2,607.71                  | 188.14                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 223.14                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 446.29                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 669.43                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 892.57                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,227.29                  |                         |
| 08 91 19 00-0102 | EA  | 48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... | 2,773.54                  | 199.66                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 237.42                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 474.84                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 712.27                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 949.69                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,305.82                  |                         |
| 08 91 19 00-0103 | EA  | 48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... | 2,953.23                  | 207.34                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 253.86                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 507.71                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 761.57                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 1,015.42                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,396.20                  |                         |
| 08 91 19 00-0104 | EA  | 48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... | 3,132.91                  | 215.02                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 270.29                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 540.57                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 810.86                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 1,081.15                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,486.58                  |                         |
| 08 91 19 00-0105 | EA  | 48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... | 3,283.13                  | 222.70                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 283.77                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 567.55                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 851.32                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 1,135.09                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,560.75                  |                         |
| 08 91 19 00-0106 | EA  | 48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... | 3,529.43                  | 234.22                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 306.10                    |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 612.20                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 918.30                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 1,224.40                  |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 1,683.54                  |                         |
| 08 91 19 00-0107 | EA  | 54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... | 973.06                    | 92.16                   |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 78.88                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 157.75                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 236.63                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 315.50                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 433.82                    |                         |
| 08 91 19 00-0108 | EA  | 54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... | 1,193.92                  | 111.36                  |
|                  |     | Note: Includes bird screen.                                       |                           |                         |
|                  |     | <i>For Flange Frame, Add</i>                                      | 97.12                     |                         |
|                  |     | <i>For Clear Lacquer Finish, Add</i>                              | 194.24                    |                         |
|                  |     | <i>For Baked Enamel Standard Colors, Add</i>                      | 291.37                    |                         |
|                  |     | <i>For Anodized Finish, Add</i>                                   | 388.49                    |                         |
|                  |     | <i>For Kynar® Standard Colors Finish, Add</i>                     | 534.17                    |                         |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|-------|------------|-----|--|--|----------------------|
| 08 91 | 19 00-0109 | EA  | 54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,397.78<br>113.67<br>227.34<br>341.00<br>454.67<br>625.17     | 130.54               |
| 08 91 | 19 00-0110 | EA  | 54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,597.86<br>132.14<br>264.28<br>396.42<br>528.56<br>726.77     | 138.22               |
| 08 91 | 19 00-0111 | EA  | 54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,871.61<br>157.98<br>315.96<br>473.94<br>631.92<br>868.88     | 145.90               |
| 08 91 | 19 00-0112 | EA  | 54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,062.63<br>175.55<br>351.09<br>526.64<br>702.18<br>965.50     | 153.58               |
| 08 91 | 19 00-0113 | EA  | 54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,244.33<br>191.41<br>382.82<br>574.23<br>765.64<br>1,052.76   | 165.10               |
| 08 91 | 19 00-0114 | EA  | 54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,508.74<br>215.55<br>431.10<br>646.65<br>862.20<br>1,185.53   | 176.62               |
| 08 91 | 19 00-0115 | EA  | 54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,696.10<br>231.98<br>463.96<br>695.95<br>927.93<br>1,275.90   | 188.14               |
| 08 91 | 19 00-0116 | EA  | 54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,973.00<br>257.37<br>514.74<br>772.10<br>1,029.47<br>1,415.52 | 199.66               |
| 08 91 | 19 00-0117 | EA  | 54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,151.55<br>273.69<br>547.37<br>821.06<br>1,094.75<br>1,505.28 | 207.34               |
| 08 91 | 19 00-0118 | EA  | 54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,355.04<br>292.50<br>585.00<br>877.50<br>1,170.00<br>1,608.75 | 215.02               |
| 08 91 | 19 00-0119 | EA  | 54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,550.59<br>310.52<br>621.04<br>931.56<br>1,242.08<br>1,707.85 | 222.70               |
| 08 91 | 19 00-0120 | EA  | 54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,713.27<br>325.25<br>650.50<br>975.75<br>1,301.00<br>1,788.88 | 230.38               |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|-------|------------|-----|--|--|----------------------|
| 08 91 | 19 00-0121 | EA  | 54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,999.23<br>351.54<br>703.09<br>1,054.63<br>1,406.17<br>1,933.49 | 241.90               |
| 08 91 | 19 00-0122 | EA  | 60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,046.22<br>84.66<br>169.31<br>253.97<br>338.62<br>465.61        | 99.84                |
| 08 91 | 19 00-0123 | EA  | 60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,290.62<br>104.49<br>208.98<br>313.46<br>417.95<br>574.68       | 122.86               |
| 08 91 | 19 00-0124 | EA  | 60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,498.14<br>122.17<br>244.34<br>366.50<br>488.67<br>671.92       | 138.22               |
| 08 91 | 19 00-0125 | EA  | 60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,728.82<br>143.70<br>287.40<br>431.10<br>574.80<br>790.35       | 145.90               |
| 08 91 | 19 00-0126 | EA  | 60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,015.91<br>170.11<br>340.21<br>510.32<br>680.42<br>935.58       | 157.42               |
| 08 91 | 19 00-0127 | EA  | 60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,229.60<br>189.94<br>379.88<br>569.81<br>759.75<br>1,044.66     | 165.10               |
| 08 91 | 19 00-0128 | EA  | 60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,419.21<br>206.60<br>413.19<br>619.79<br>826.39<br>1,136.28     | 176.62               |
| 08 91 | 19 00-0129 | EA  | 60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,701.77<br>232.55<br>465.10<br>697.65<br>930.20<br>1,279.02     | 188.14               |
| 08 91 | 19 00-0130 | EA  | 60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,902.74<br>250.34<br>500.68<br>751.03<br>1,001.37<br>1,376.88   | 199.66               |
| 08 91 | 19 00-0131 | EA  | 60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,202.30<br>277.99<br>555.99<br>833.98<br>1,111.98<br>1,528.97   | 211.18               |
| 08 91 | 19 00-0132 | EA  | 60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,392.18<br>295.45<br>590.89<br>886.34<br>1,181.78<br>1,624.95   | 218.86               |



|       | MINOR      | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|-----|--|------------------------|----------------------|
| 08 91 | 19 00-0133 | EA  |     | 60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,608.13               | 226.54               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 315.51                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 631.01                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 946.52                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 1,262.02               |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,735.28               |                      |
| 08 91 | 19 00-0134 | EA  |     | 60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,819.55               | 234.22               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 335.11                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 670.22                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,005.33               |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 1,340.44               |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,843.11               |                      |
| 08 91 | 19 00-0135 | EA  |     | 60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,999.23               | 241.90               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 351.54                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 703.09                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,054.63               |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 1,406.17               |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,933.49               |                      |
| 08 91 | 19 00-0136 | EA  |     | 60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,296.78               | 249.58               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 379.76                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 759.52                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,139.29               |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 1,519.05               |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,088.69               |                      |
| 08 91 | 19 00-0137 | EA  |     | 66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,203.24               | 107.52               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 98.82                  |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 197.64                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 296.47                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 395.29                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 543.52                 |                      |
| 08 91 | 19 00-0138 | EA  |     | 66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,487.31               | 130.54               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 122.62                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 245.24                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 367.86                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 490.48                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 674.42                 |                      |
| 08 91 | 19 00-0139 | EA  |     | 66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,733.98               | 153.58               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 142.68                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 285.36                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 428.04                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 570.72                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 784.74                 |                      |
| 08 91 | 19 00-0140 | EA  |     | 66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,985.06               | 161.26               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 166.25                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 332.50                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 498.76                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 665.01                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 914.39                 |                      |
| 08 91 | 19 00-0141 | EA  |     | 66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,317.74               | 168.94               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 197.98                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 395.97                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 593.95                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 791.94                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,088.91               |                      |
| 08 91 | 19 00-0142 | EA  |     | 66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,550.67               | 176.62               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 219.74                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 439.49                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 659.23                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 878.97                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,208.59               |                      |
| 08 91 | 19 00-0143 | EA  |     | 66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,776.57               | 188.14               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 240.03                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 480.06                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 720.09                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 960.12                 |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,320.16               |                      |
| 08 91 | 19 00-0144 | EA  |     | 66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,041.00               | 199.66               |
|       |            |     |     | <i>For Flange Frame, Add</i>   | 264.17                 |                      |
|       |            |     |     | <i>For Clear Lacquer Finish, Add</i>   | 528.34                 |                      |
|       |            |     |     | <i>For Baked Enamel Standard Colors, Add</i>   | 792.50                 |                      |
|       |            |     |     | <i>For Anodized Finish, Add</i>  | 1,056.67               |                      |
|       |            |     |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,452.92               |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 08 91 | 19 00-0145 | EA  | 66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,265.76               | 211.18               |
|       |            |     | <i>For Flange Frame, Add</i>   | 284.34                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 568.68                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 853.02                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,137.36               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,563.87               |                      |
| 08 91 | 19 00-0146 | EA  | 66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,610.40               | 226.54               |
|       |            |     | <i>For Flange Frame, Add</i>   | 315.73                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 631.46                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 947.20                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,262.93               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,736.53               |                      |
| 08 91 | 19 00-0147 | EA  | 66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,827.23               | 238.06               |
|       |            |     | <i>For Flange Frame, Add</i>   | 335.11                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 670.22                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,005.33               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,340.44               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,843.11               |                      |
| 08 91 | 19 00-0148 | EA  | 66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,055.65               | 245.74               |
|       |            |     | <i>For Flange Frame, Add</i>   | 356.42                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 712.83                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,069.25               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,425.67               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,960.29               |                      |
| 08 91 | 19 00-0149 | EA  | 66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,288.60               | 253.42               |
|       |            |     | <i>For Flange Frame, Add</i>   | 378.18                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 756.35                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,134.53               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,512.70               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,079.97               |                      |
| 08 91 | 19 00-0150 | EA  | 66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,490.95               | 261.10               |
|       |            |     | <i>For Flange Frame, Add</i>   | 396.88                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 793.75                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,190.63               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,587.50               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,182.81               |                      |
| 08 91 | 19 00-0151 | EA  | 66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,822.49               | 268.78               |
|       |            |     | <i>For Flange Frame, Add</i>   | 428.49                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 856.99                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,285.48               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,713.97               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,356.71               |                      |
| 08 91 | 19 00-0152 | EA  | 72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,270.73               | 115.20               |
|       |            |     | <i>For Flange Frame, Add</i>   | 104.04                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 208.07                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 312.11                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 416.14                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 572.19                 |                      |
| 08 91 | 19 00-0153 | EA  | 72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,568.40               | 138.22               |
|       |            |     | <i>For Flange Frame, Add</i>   | 129.19                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 258.39                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 387.58                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 516.78                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 710.57                 |                      |
| 08 91 | 19 00-0154 | EA  | 72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,827.54               | 161.26               |
|       |            |     | <i>For Flange Frame, Add</i>   | 150.50                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 301.00                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 451.50                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 602.00                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 827.75                 |                      |
| 08 91 | 19 00-0155 | EA  | 72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,101.01               | 172.78               |
|       |            |     | <i>For Flange Frame, Add</i>   | 175.55                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 351.09                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 526.64                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 702.18                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 965.50                 |                      |
| 08 91 | 19 00-0156 | EA  | 72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,457.49               | 180.46               |
|       |            |     | <i>For Flange Frame, Add</i>   | 209.66                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 419.31                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 628.97                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 838.63                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,153.11               |                      |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|-------|------------|-----|--|--|----------------------|
| 08 91 | 19 00-0157 | EA  | 72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,702.90<br>232.66<br>465.32<br>697.99<br>930.65<br>1,279.64     | 188.14               |
| 08 91 | 19 00-0158 | EA  | 72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,943.53<br>254.42<br>508.84<br>763.26<br>1,017.68<br>1,399.32   | 199.66               |
| 08 91 | 19 00-0159 | EA  | 72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,215.01<br>280.03<br>560.07<br>840.10<br>1,120.13<br>1,540.18   | 207.34               |
| 08 91 | 19 00-0160 | EA  | 72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,449.98<br>301.23<br>602.45<br>903.68<br>1,204.90<br>1,656.74   | 218.86               |
| 08 91 | 19 00-0161 | EA  | 72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,827.23<br>335.11<br>670.22<br>1,005.33<br>1,340.44<br>1,843.11 | 238.06               |
| 08 91 | 19 00-0162 | EA  | 72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 4,065.59<br>356.64<br>713.29<br>1,069.93<br>1,426.57<br>1,961.54 | 249.58               |
| 08 91 | 19 00-0163 | EA  | 72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 4,300.81<br>378.63<br>757.26<br>1,135.89<br>1,514.52<br>2,082.46 | 257.26               |
| 08 91 | 19 00-0164 | EA  | 72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 4,539.42<br>400.95<br>801.91<br>1,202.86<br>1,603.82<br>2,205.25 | 264.94               |
| 08 91 | 19 00-0165 | EA  | 72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 4,763.31<br>421.81<br>843.61<br>1,265.42<br>1,687.23<br>2,319.94 | 272.62               |
| 08 91 | 19 00-0166 | EA  | 72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 5,116.39<br>455.58<br>911.16<br>1,366.74<br>1,822.32<br>2,505.68 | 280.30               |
| 08 91 | 19 00-0167 | EA  | 78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,351.82<br>110.61<br>221.22<br>331.82<br>442.43<br>608.34       | 122.86               |
| 08 91 | 19 00-0168 | EA  | 78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,657.42<br>136.56<br>273.12<br>409.68<br>546.24<br>751.08       | 145.90               |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 08 91 | 19 00-0169 | EA  | 78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,922.23               | 168.94               |
|       |            |     | <i>For Flange Frame, Add</i>   | 158.43                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 316.87                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 475.30                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 633.73                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 871.38                 |                      |
| 08 91 | 19 00-0170 | EA  | 78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,213.83               | 180.46               |
|       |            |     | <i>For Flange Frame, Add</i>   | 185.29                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 370.58                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 555.87                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 741.16                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,019.10               |                      |
| 08 91 | 19 00-0171 | EA  | 78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,590.71               | 188.14               |
|       |            |     | <i>For Flange Frame, Add</i>   | 221.44                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 442.89                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 664.33                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 885.77                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,217.94               |                      |
| 08 91 | 19 00-0172 | EA  | 78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,846.32               | 195.82               |
|       |            |     | <i>For Flange Frame, Add</i>   | 245.47                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 490.94                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 736.40                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 981.87                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,350.07               |                      |
| 08 91 | 19 00-0173 | EA  | 78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,103.95               | 207.34               |
|       |            |     | <i>For Flange Frame, Add</i>   | 268.93                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 537.85                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 806.78                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,075.71               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,479.10               |                      |
| 08 91 | 19 00-0174 | EA  | 78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,391.30               | 215.02               |
|       |            |     | <i>For Flange Frame, Add</i>   | 296.13                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 592.25                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 888.38                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,184.50               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,628.69               |                      |
| 08 91 | 19 00-0175 | EA  | 78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,643.26               | 226.54               |
|       |            |     | <i>For Flange Frame, Add</i>   | 319.02                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 638.04                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 957.05                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,276.07               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,754.60               |                      |
| 08 91 | 19 00-0176 | EA  | 78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,044.31               | 245.74               |
|       |            |     | <i>For Flange Frame, Add</i>   | 355.28                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 710.57                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,065.85               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,421.13               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,954.06               |                      |
| 08 91 | 19 00-0177 | EA  | 78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,294.01               | 257.26               |
|       |            |     | <i>For Flange Frame, Add</i>   | 377.95                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 755.90                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,133.85               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,511.80               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,078.72               |                      |
| 08 91 | 19 00-0178 | EA  | 78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,555.04               | 268.78               |
|       |            |     | <i>For Flange Frame, Add</i>   | 401.75                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 803.50                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,205.24               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,606.99               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,209.61               |                      |
| 08 91 | 19 00-0179 | EA  | 78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,793.65               | 276.46               |
|       |            |     | <i>For Flange Frame, Add</i>   | 424.07                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 848.15                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,272.22               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,696.29               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,332.40               |                      |
| 08 91 | 19 00-0180 | EA  | 78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 5,032.27               | 284.14               |
|       |            |     | <i>For Flange Frame, Add</i>   | 446.40                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 892.80                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,339.20               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,785.60               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,455.19               |                      |



|                          |              |
|--------------------------|--------------|
| <b>Openings</b>          | <b>08</b>    |
| <b>Louvers and Vents</b> | <b>08 90</b> |
| <b>Louvers</b>           | <b>08 91</b> |

| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|-------|------------|-----|--|--|----------------------|
| 08 91 | 19 00-0181 | EA  | 78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 5,407.99<br><br>482.44<br>964.87<br>1,447.31<br>1,929.75<br>2,653.40 | 291.82               |
| 08 91 | 19 00-0182 | EA  | 84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,418.18<br><br>115.71<br>231.42<br>347.12<br>462.83<br>636.39       | 130.54               |
| 08 91 | 19 00-0183 | EA  | 84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 1,736.25<br><br>142.91<br>285.81<br>428.72<br>571.63<br>785.99       | 153.58               |
| 08 91 | 19 00-0184 | EA  | 84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,028.23<br><br>167.50<br>335.00<br>502.50<br>670.00<br>921.24       | 176.62               |
| 08 91 | 19 00-0185 | EA  | 84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,328.92<br><br>195.26<br>390.53<br>585.79<br>781.06<br>1,073.95     | 188.14               |
| 08 91 | 19 00-0186 | EA  | 84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,729.60<br><br>233.80<br>467.59<br>701.39<br>935.18<br>1,285.88     | 195.82               |
| 08 91 | 19 00-0187 | EA  | 84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 2,999.94<br><br>259.29<br>518.59<br>777.88<br>1,037.18<br>1,426.12   | 203.50               |
| 08 91 | 19 00-0188 | EA  | 84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,263.24<br><br>283.32<br>566.64<br>849.96<br>1,133.28<br>1,558.26   | 215.02               |
| 08 91 | 19 00-0189 | EA  | 84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,573.25<br><br>312.79<br>625.57<br>938.36<br>1,251.14<br>1,720.32   | 222.70               |
| 08 91 | 19 00-0190 | EA  | 84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 3,837.68<br><br>336.92<br>673.85<br>1,010.77<br>1,347.70<br>1,853.08 | 234.22               |
| 08 91 | 19 00-0191 | EA  | 84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 4,262.53<br><br>375.57<br>751.14<br>1,126.71<br>1,502.28<br>2,065.63 | 253.42               |
| 08 91 | 19 00-0192 | EA  | 84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen.<br><i>For Flange Frame, Add</i><br><i>For Clear Lacquer Finish, Add</i><br><i>For Baked Enamel Standard Colors, Add</i><br><i>For Anodized Finish, Add</i><br><i>For Kynar® Standard Colors Finish, Add</i> | 4,521.29<br><br>399.14<br>798.28<br>1,197.42<br>1,596.56<br>2,195.28 | 264.94               |



|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 08 91 | 19 00-0193 | EA  | 84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 4,804.99               | 276.46               |
|       |            |     | <i>For Flange Frame, Add</i>   | 425.21                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 850.41                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,275.62               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,700.83               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,338.64               |                      |
| 08 91 | 19 00-0194 | EA  | 84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 5,107.07               | 284.14               |
|       |            |     | <i>For Flange Frame, Add</i>   | 453.88                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 907.76                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,361.64               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,815.52               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,496.33               |                      |
| 08 91 | 19 00-0195 | EA  | 84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 5,379.66               | 291.82               |
|       |            |     | <i>For Flange Frame, Add</i>   | 479.60                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 959.21                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,438.81               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,918.42               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,637.82               |                      |
| 08 91 | 19 00-0196 | EA  | 84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 5,783.74               | 299.50               |
|       |            |     | <i>For Flange Frame, Add</i>   | 518.48                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 1,036.95               |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 1,555.43               |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 2,073.90               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 2,851.62               |                      |
| 08 91 | 19 00-0197 | EA  | 90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,505.82               | 142.06               |
|       |            |     | <i>For Flange Frame, Add</i>   | 122.17                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 244.34                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 366.50                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 488.67                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 671.92                 |                      |
| 08 91 | 19 00-0198 | EA  | 90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 1,828.42               | 165.10               |
|       |            |     | <i>For Flange Frame, Add</i>   | 149.82                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 299.64                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 449.46                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 599.28                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 824.01                 |                      |
| 08 91 | 19 00-0199 | EA  | 90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,131.73               | 188.14               |
|       |            |     | <i>For Flange Frame, Add</i>   | 175.55                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 351.09                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 526.64                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 702.18                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 965.50                 |                      |
| 08 91 | 19 00-0200 | EA  | 90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,441.49               | 199.66               |
|       |            |     | <i>For Flange Frame, Add</i>   | 204.22                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 408.43                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 612.65                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 816.87                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,123.19               |                      |
| 08 91 | 19 00-0201 | EA  | 90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 2,869.36               | 207.34               |
|       |            |     | <i>For Flange Frame, Add</i>   | 245.47                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 490.94                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 736.40                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 981.87                 |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,350.07               |                      |
| 08 91 | 19 00-0202 | EA  | 90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,148.78               | 215.02               |
|       |            |     | <i>For Flange Frame, Add</i>   | 271.87                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 543.75                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 815.62                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,087.50               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,495.31               |                      |
| 08 91 | 19 00-0203 | EA  | 90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,415.73               | 222.70               |
|       |            |     | <i>For Flange Frame, Add</i>   | 297.03                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 594.07                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 891.10                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,188.13               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,633.68               |                      |
| 08 91 | 19 00-0204 | EA  | 90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....<br>Note: Includes bird screen. | 3,742.74               | 230.38               |
|       |            |     | <i>For Flange Frame, Add</i>   | 328.20                 |                      |
|       |            |     | <i>For Clear Lacquer Finish, Add</i>   | 656.40                 |                      |
|       |            |     | <i>For Baked Enamel Standard Colors, Add</i>   | 984.59                 |                      |
|       |            |     | <i>For Anodized Finish, Add</i>  | 1,312.79               |                      |
|       |            |     | <i>For Kynar® Standard Colors Finish, Add</i>  | 1,805.09               |                      |



|       | MINOR      | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|-----|---|------------------------|----------------------|
| 08 91 | 19 00-0205 | EA  |     | 90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... | 4,020.77               | 241.90               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 353.70                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 707.39                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,061.09               |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,414.79               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,945.33               |                      |
| 08 91 | 19 00-0206 | EA  |     | 90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... | 4,469.41               | 261.10               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 394.72                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 789.44                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,184.16               |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,578.88               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 2,170.97               |                      |
| 08 91 | 19 00-0207 | EA  |     | 90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... | 4,739.51               | 272.62               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 419.43                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 838.85                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,258.28               |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,677.71               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 2,306.85               |                      |
| 08 91 | 19 00-0208 | EA  |     | 90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... | 5,048.14               | 284.14               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 447.99                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 895.97                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,343.96               |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,791.94               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 2,463.92               |                      |
| 08 91 | 19 00-0209 | EA  |     | 90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... | 5,368.33               | 291.82               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 478.47                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 956.94                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,435.41               |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,913.88               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 2,631.59               |                      |
| 08 91 | 19 00-0210 | EA  |     | 90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... | 5,641.82               | 303.34               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 503.52                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 1,007.03               |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,510.55               |                      |
|       |            |     |     | For Anodized Finish, Add  | 2,014.06               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 2,769.34               |                      |
| 08 91 | 19 00-0211 | EA  |     | 90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... | 6,069.70               | 311.02               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 544.77                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 1,089.54               |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 1,634.30               |                      |
|       |            |     |     | For Anodized Finish, Add  | 2,179.07               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 2,996.22               |                      |
| 08 91 | 19 00-0212 | EA  |     | 96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... | 1,582.12               | 153.58               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 127.49                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 254.99                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 382.48                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 509.98                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 701.22                 |                      |
| 08 91 | 19 00-0213 | EA  |     | 96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... | 1,916.03               | 176.62               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 156.28                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 312.56                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 468.84                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 625.12                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 859.53                 |                      |
| 08 91 | 19 00-0214 | EA  |     | 96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... | 2,234.10               | 199.66               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 183.48                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 366.96                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 550.43                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 733.91                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,009.13               |                      |
| 08 91 | 19 00-0215 | EA  |     | 96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... | 2,560.86               | 211.18               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 213.85                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 427.70                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 641.55                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 855.40                 |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,176.18               |                      |
| 08 91 | 19 00-0216 | EA  |     | 96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... | 3,002.33               | 218.86               |
|       |            |     |     | Note: Includes bird screen.                                       |                        |                      |
|       |            |     |     | For Flange Frame, Add   | 256.46                 |                      |
|       |            |     |     | For Clear Lacquer Finish, Add                                     | 512.92                 |                      |
|       |            |     |     | For Baked Enamel Standard Colors, Add                             | 769.38                 |                      |
|       |            |     |     | For Anodized Finish, Add  | 1,025.84               |                      |
|       |            |     |     | For Kynar® Standard Colors Finish, Add                            | 1,410.54               |                      |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 08 91 19 00-0217 EA 96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....      | 3,328.21                  | 226.54                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 287.51                    |                         |
| For Clear Lacquer Finish, Add  | 575.03                    |                         |
| For Baked Enamel Standard Colors, Add  | 862.54                    |                         |
| For Anodized Finish, Add   | 1,150.05                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,581.32                  |                         |
| 08 91 19 00-0218 EA 96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....      | 3,612.16                  | 234.22                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 314.37                    |                         |
| For Clear Lacquer Finish, Add  | 628.74                    |                         |
| For Baked Enamel Standard Colors, Add  | 943.12                    |                         |
| For Anodized Finish, Add   | 1,257.49                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,729.05                  |                         |
| 08 91 19 00-0219 EA 96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....      | 3,923.30                  | 241.90                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 343.95                    |                         |
| For Clear Lacquer Finish, Add  | 687.90                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,031.85                  |                         |
| For Anodized Finish, Add   | 1,375.80                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,891.73                  |                         |
| 08 91 19 00-0220 EA 96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....      | 4,211.79                  | 249.58                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 371.26                    |                         |
| For Clear Lacquer Finish, Add  | 742.53                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,113.79                  |                         |
| For Anodized Finish, Add   | 1,485.05                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,041.95                  |                         |
| 08 91 19 00-0221 EA 96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....      | 4,693.30                  | 268.78                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 415.57                    |                         |
| For Clear Lacquer Finish, Add  | 831.15                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,246.72                  |                         |
| For Anodized Finish, Add   | 1,662.30                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,285.66                  |                         |
| 08 91 19 00-0222 EA 96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....      | 3,753.05                  | 280.30                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 319.25                    |                         |
| For Clear Lacquer Finish, Add  | 638.49                    |                         |
| For Baked Enamel Standard Colors, Add  | 957.74                    |                         |
| For Anodized Finish, Add   | 1,276.98                  |                         |
| For Kynar® Standard Colors Finish, Add   | 1,755.85                  |                         |
| 08 91 19 00-0223 EA 96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....      | 5,287.87                  | 291.82                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 470.43                    |                         |
| For Clear Lacquer Finish, Add  | 940.85                    |                         |
| For Baked Enamel Standard Colors, Add  | 1,411.28                  |                         |
| For Anodized Finish, Add   | 1,881.70                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,587.34                  |                         |
| 08 91 19 00-0224 EA 96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....      | 5,619.41                  | 299.50                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 502.04                    |                         |
| For Clear Lacquer Finish, Add  | 1,004.09                  |                         |
| For Baked Enamel Standard Colors, Add  | 1,506.13                  |                         |
| For Anodized Finish, Add   | 2,008.17                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,761.24                  |                         |
| 08 91 19 00-0225 EA 96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....      | 5,906.50                  | 311.02                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 528.45                    |                         |
| For Clear Lacquer Finish, Add  | 1,056.90                  |                         |
| For Baked Enamel Standard Colors, Add  | 1,585.34                  |                         |
| For Anodized Finish, Add   | 2,113.79                  |                         |
| For Kynar® Standard Colors Finish, Add   | 2,906.46                  |                         |
| 08 91 19 00-0226 EA 96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....      | 6,368.12                  | 322.54                  |
| Note: Includes bird screen.  |                           |                         |
| For Flange Frame, Add  | 572.31                    |                         |
| For Clear Lacquer Finish, Add  | 1,144.61                  |                         |
| For Baked Enamel Standard Colors, Add  | 1,716.92                  |                         |
| For Anodized Finish, Add   | 2,289.22                  |                         |
| For Kynar® Standard Colors Finish, Add   | 3,147.68                  |                         |
| 08 91 19 00-0227 Gable Louver Vents <small>(08 91 19)</small>                              |                           |                         |
| Note: 1" deep, residential/light commercial grade louvers.                                 |                           |                         |
| 08 91 19 00-0228 Aluminum Gable Louver Vents <small>(08 91 19 00-0227)</small>             |                           |                         |
| Note: Includes screen.   |                           |                         |
| 08 91 19 00-0229 Rectangular Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> |                           |                         |
| Note: Includes screen.   |                           |                         |
| 08 91 19 00-0230 EA 12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....            | 271.58                    | 12.08                   |
| 08 91 19 00-0231 EA 12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....            | 297.10                    | 13.87                   |
| 08 91 19 00-0232 EA 18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....            | 342.77                    | 15.66                   |
| 08 91 19 00-0233 EA 18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....            | 375.92                    | 16.64                   |
| 08 91 19 00-0234 EA 24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....            | 429.22                    | 17.63                   |
| 08 91 19 00-0235 EA 24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....            | 480.08                    | 21.14                   |
| 08 91 19 00-0236 EA 30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....            | 556.39                    | 26.43                   |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 08 91 19 00-0237        | EA  |     | 30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....        | 619.99                 | 30.84                |
| 08 91 19 00-0238        | EA  |     | 36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....        | 709.00                 | 37.00                |
| 08 91 19 00-0239        | EA  |     | 42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....        | 887.04                 | 49.33                |
| <b>08 91 19 00-0240</b> |     |     | <b>Square Aluminum Gable Louver Vents (08 91 19 00-0228)</b>       |                        |                      |
|                         |     |     | Note: Includes screen.   |                        |                      |
| 08 91 19 00-0241        | EA  |     | 12" x 12" Square Fixed Aluminum Gable Louver Vent .....            | 248.57                 | 11.12                |
| 08 91 19 00-0242        | EA  |     | 18" x 18" Square Fixed Aluminum Gable Louver Vent .....            | 307.83                 | 14.10                |
| 08 91 19 00-0243        | EA  |     | 24" x 24" Square Fixed Aluminum Gable Louver Vent .....            | 385.99                 | 16.63                |
| 08 91 19 00-0244        | EA  |     | 30" x 30" Square Fixed Aluminum Gable Louver Vent .....            | 492.80                 | 22.02                |
| 08 91 19 00-0245        | EA  |     | 36" x 36" Square Fixed Aluminum Gable Louver Vent .....            | 632.70                 | 31.72                |
| 08 91 19 00-0246        | EA  |     | 42" x 42" Square Fixed Aluminum Gable Louver Vent .....            | 797.92                 | 43.14                |
| 08 91 19 00-0247        | EA  |     | 48" x 48" Square Fixed Aluminum Gable Louver Vent .....            | 988.79                 | 56.38                |
| <b>08 91 19 00-0248</b> |     |     | <b>Round Aluminum Gable Louver Vents (08 91 19 00-0228)</b>        |                        |                      |
|                         |     |     | Note: Includes screen.   |                        |                      |
| 08 91 19 00-0249        | EA  |     | 12" Diameter Round Fixed Aluminum Gable Louver Vent.....           | 248.57                 | 11.12                |
| 08 91 19 00-0250        | EA  |     | 18" Diameter Round Fixed Aluminum Gable Louver Vent.....           | 307.83                 | 14.10                |
| 08 91 19 00-0251        | EA  |     | 24" Diameter Round Fixed Aluminum Gable Louver Vent.....           | 385.99                 | 16.63                |
| 08 91 19 00-0252        | EA  |     | 30" Diameter Round Fixed Aluminum Gable Louver Vent.....           | 492.80                 | 22.02                |
| 08 91 19 00-0253        | EA  |     | 36" Diameter Round Fixed Aluminum Gable Louver Vent.....           | 632.70                 | 31.72                |
| 08 91 19 00-0254        | EA  |     | 42" Diameter Round Fixed Aluminum Gable Louver Vent.....           | 798.02                 | 43.17                |
| <b>08 91 19 00-0255</b> |     |     | <b>Octagonal Aluminum Gable Louver Vents (08 91 19 00-0228)</b>    |                        |                      |
|                         |     |     | Note: Includes screen.   |                        |                      |
| 08 91 19 00-0256        | EA  |     | 12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....          | 248.57                 | 11.12                |
| 08 91 19 00-0257        | EA  |     | 12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....          | 271.58                 | 12.08                |
| 08 91 19 00-0258        | EA  |     | 12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....          | 297.10                 | 13.87                |
| 08 91 19 00-0259        | EA  |     | 18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....          | 307.83                 | 14.10                |
| 08 91 19 00-0260        | EA  |     | 18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....          | 342.77                 | 15.66                |
| 08 91 19 00-0261        | EA  |     | 18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....          | 375.92                 | 16.64                |
| 08 91 19 00-0262        | EA  |     | 24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....          | 385.99                 | 16.63                |
| 08 91 19 00-0263        | EA  |     | 24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....          | 429.22                 | 17.63                |
| 08 91 19 00-0264        | EA  |     | 24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....          | 480.08                 | 21.14                |
| 08 91 19 00-0265        | EA  |     | 30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....          | 492.80                 | 22.02                |
| 08 91 19 00-0266        | EA  |     | 30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....          | 556.39                 | 26.43                |
| 08 91 19 00-0267        | EA  |     | 30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....          | 619.99                 | 30.84                |
| 08 91 19 00-0268        | EA  |     | 36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....          | 632.70                 | 31.72                |
| 08 91 19 00-0269        | EA  |     | 36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....          | 709.00                 | 37.00                |
| 08 91 19 00-0270        | EA  |     | 36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....          | 785.31                 | 42.29                |
| 08 91 19 00-0271        | EA  |     | 42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....          | 798.02                 | 43.17                |
| 08 91 19 00-0272        | EA  |     | 42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....          | 887.04                 | 49.33                |
| 08 91 19 00-0273        | EA  |     | 48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....          | 988.79                 | 56.38                |
| <b>08 91 19 00-0274</b> |     |     | <b>Round Top Aluminum Gable Louver Vents (08 91 19 00-0228)</b>    |                        |                      |
|                         |     |     | Note: Includes screen.   |                        |                      |
| 08 91 19 00-0275        | EA  |     | 12" x 12" Round Top Fixed Aluminum Gable Louver Vent .....         | 248.57                 | 11.12                |
| 08 91 19 00-0276        | EA  |     | 12" x 18" Round Top Fixed Aluminum Gable Louver Vent .....         | 271.58                 | 12.08                |
| 08 91 19 00-0277        | EA  |     | 12" x 24" Round Top Fixed Aluminum Gable Louver Vent .....         | 297.10                 | 13.87                |
| 08 91 19 00-0278        | EA  |     | 18" x 18" Round Top Fixed Aluminum Gable Louver Vent .....         | 307.83                 | 14.10                |
| 08 91 19 00-0279        | EA  |     | 18" x 24" Round Top Fixed Aluminum Gable Louver Vent .....         | 342.77                 | 15.66                |
| 08 91 19 00-0280        | EA  |     | 18" x 30" Round Top Fixed Aluminum Gable Louver Vent .....         | 375.92                 | 16.64                |
| 08 91 19 00-0281        | EA  |     | 24" x 24" Round Top Fixed Aluminum Gable Louver Vent .....         | 385.99                 | 16.63                |
| 08 91 19 00-0282        | EA  |     | 24" x 30" Round Top Fixed Aluminum Gable Louver Vent .....         | 429.22                 | 17.63                |
| 08 91 19 00-0283        | EA  |     | 24" x 36" Round Top Fixed Aluminum Gable Louver Vent .....         | 480.08                 | 21.14                |
| 08 91 19 00-0284        | EA  |     | 30" x 30" Round Top Fixed Aluminum Gable Louver Vent .....         | 492.80                 | 22.02                |
| 08 91 19 00-0285        | EA  |     | 30" x 36" Round Top Fixed Aluminum Gable Louver Vent .....         | 556.39                 | 26.43                |
| 08 91 19 00-0286        | EA  |     | 30" x 42" Round Top Fixed Aluminum Gable Louver Vent .....         | 619.99                 | 30.84                |
| 08 91 19 00-0287        | EA  |     | 36" x 36" Round Top Fixed Aluminum Gable Louver Vent .....         | 632.70                 | 31.72                |
| 08 91 19 00-0288        | EA  |     | 36" x 42" Round Top Fixed Aluminum Gable Louver Vent .....         | 709.00                 | 37.00                |
| 08 91 19 00-0289        | EA  |     | 36" x 48" Round Top Fixed Aluminum Gable Louver Vent .....         | 785.31                 | 42.29                |
| 08 91 19 00-0290        | EA  |     | 42" x 42" Round Top Fixed Aluminum Gable Louver Vent .....         | 798.02                 | 43.17                |
| 08 91 19 00-0291        | EA  |     | 42" x 48" Round Top Fixed Aluminum Gable Louver Vent .....         | 887.04                 | 49.33                |
| 08 91 19 00-0292        | EA  |     | 48" x 48" Round Top Fixed Aluminum Gable Louver Vent .....         | 988.79                 | 56.38                |
| <b>08 91 19 00-0293</b> |     |     | <b>Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)</b>     |                        |                      |
|                         |     |     | Note: Includes screen.   |                        |                      |
| 08 91 19 00-0294        | EA  |     | 36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent..... | 518.68                 | 13.87                |
| 08 91 19 00-0295        | EA  |     | 36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent..... | 587.43                 | 16.63                |
| 08 91 19 00-0296        | EA  |     | 48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent..... | 630.67                 | 17.63                |
| 08 91 19 00-0297        | EA  |     | 48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent..... | 721.81                 | 21.14                |
| 08 91 19 00-0298        | EA  |     | 48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent..... | 805.04                 | 22.02                |
| 08 91 19 00-0299        | EA  |     | 60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent..... | 657.12                 | 26.43                |
| 08 91 19 00-0300        | EA  |     | 60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent..... | 771.07                 | 30.84                |
| 08 91 19 00-0301        | EA  |     | 60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent..... | 874.43                 | 31.72                |
| 08 91 19 00-0302        | EA  |     | 60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent..... | 991.02                 | 37.00                |

|              |                          |
|--------------|--------------------------|
| <b>08</b>    | <b>Openings</b>          |
| <b>08 90</b> | <b>Louvers and Vents</b> |
| <b>08 91</b> | <b>Louvers</b>           |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 08 91 19 00-0303 EA 72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....      | 785.31                    | 42.29                   |
| 08 91 19 00-0304 EA 72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....      | 908.82                    | 43.17                   |
| 08 91 19 00-0305 EA 72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....      | 1,048.19                  | 49.33                   |
| 08 91 19 00-0306 EA 72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....      | 1,190.23                  | 56.38                   |
| 08 91 19 00-0307 EA 72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....      | 1,336.33                  | 64.79                   |
| <b>08 91 19 00-0308 Vinyl Gable Louver Vents (08 91 19 00-0227)</b>                         |                           |                         |
| Note: Includes screen.  |                           |                         |
| 08 91 19 00-0309 EA 12" x 12" Square Fixed Vinyl Gable Louver Vent.....                     | 79.91                     | 11.12                   |
| 08 91 19 00-0310 EA 12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....                | 96.76                     | 12.08                   |
| 08 91 19 00-0311 EA 18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....                | 132.14                    | 15.66                   |
| 08 91 19 00-0312 EA 24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....                | 181.53                    | 17.63                   |
| 08 91 19 00-0313 EA 18" Diameter Round Fixed Vinyl Gable Louver Vent.....                   | 128.07                    | 14.10                   |
| 08 91 19 00-0314 EA 22" Diameter Round Fixed Vinyl Gable Louver Vent.....                   | 147.96                    | 16.63                   |
| 08 91 19 00-0315 EA 30" Diameter Round Fixed Vinyl Gable Louver Vent.....                   | 208.83                    | 22.02                   |
| 08 91 19 00-0316 EA 36" Diameter Round Fixed Vinyl Gable Louver Vent.....                   | 305.26                    | 31.72                   |
| 08 91 19 00-0317 EA 18" x 18" Octagonal Fixed Vinyl Gable Louver Vent.....                  | 128.07                    | 14.10                   |
| 08 91 19 00-0318 EA 22" x 22" Octagonal Fixed Vinyl Gable Louver Vent.....                  | 145.03                    | 15.66                   |
| 08 91 19 00-0319 EA 27" x 27" Octagonal Fixed Vinyl Gable Louver Vent.....                  | 187.47                    | 17.63                   |
| 08 91 19 00-0320 EA 32" x 32" Octagonal Fixed Vinyl Gable Louver Vent.....                  | 266.03                    | 26.43                   |
| 08 91 19 00-0321 EA 40" x 40" Octagonal Fixed Vinyl Gable Louver Vent.....                  | 635.07                    | 42.29                   |
| 08 91 19 00-0322 EA 14" x 22" Round Top Fixed Vinyl Gable Louver Vent.....                  | 125.52                    | 13.87                   |
| 08 91 19 00-0323 EA 22" x 32" Round Top Fixed Vinyl Gable Louver Vent.....                  | 175.16                    | 17.63                   |
| 08 91 19 00-0324 EA 34" x 22" Half Round Fixed Vinyl Gable Louver Vent.....                 | 181.09                    | 21.14                   |
| 08 91 19 00-0325 EA 52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....         | 418.58                    | 26.43                   |
| 08 91 19 00-0326 EA 56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....         | 418.58                    | 26.43                   |
| 08 91 19 00-0327 EA 56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....         | 418.58                    | 26.43                   |
| 08 91 19 00-0328 EA 62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....         | 418.58                    | 26.43                   |
| 08 91 19 00-0329 EA 62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent.....     | 418.58                    | 26.43                   |
| 08 91 19 00-0330 EA 70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent.....     | 466.20                    | 42.29                   |
| 08 91 19 00-0331 EA 70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent..... | 466.20                    | 42.29                   |
| 08 91 19 00-0332 EA 72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent.....     | 466.20                    | 42.29                   |
| 08 91 19 00-0333 EA 74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....     | 466.20                    | 42.29                   |
| <b>08 95 Vents (08 90)</b>  |                           |                         |
| <b>08 95 13 Soffit Vents (08 95)</b>  |                           |                         |
| <b>08 95 13 00-0001 Aluminum Soffit Vents (08 95 13)</b>                                    |                           |                         |
| 08 95 13 00-0002 LF 2-1/2" Wide Aluminum Soffit Vent.....                                   | 9.58                      | 3.53                    |
| 08 95 13 00-0003 LF 3" Wide Aluminum Soffit Vent.....                                       | 17.37                     | 6.92                    |
| 08 95 13 00-0004 EA 4" x 16" Under Eave Vent, Mill Finish.....                              | 27.94                     | 9.22                    |
| 08 95 13 00-0005 EA 8" x 16" Under Eave Vent, Mill Finish.....                              | 28.89                     | 9.22                    |
| <b>08 95 13 00-0006 Vinyl Soffit Vents (08 95 13)</b>                                       |                           |                         |
| 08 95 13 00-0007 LF Up To 2" Vinyl Soffit Vent, Perforated, White.....                      | 7.02                      | 2.93                    |
| For Colors, Add   | 0.12                      |                         |
| 08 95 13 00-0008 LF 3" To 4" Vinyl Soffit Vent, Perforated, White.....                      | 7.50                      | 2.93                    |
| For Colors, Add   | 0.17                      |                         |
| <b>08 95 16 Wall Vents (08 95)</b>  |                           |                         |
| <b>08 95 16 00-0001 Foundation Vents (08 95 16)</b>   |                           |                         |
| 08 95 16 00-0002 SI Galvanized Steel Foundation Vent.....                                   | 0.54                      | 0.22                    |
| 08 95 16 00-0003 SI Aluminum Foundation Vent.....   | 1.01                      | 0.22                    |
| 08 95 16 00-0004 SI Stainless Steel Foundation Vent.....                                    | 1.08                      | 0.22                    |
| 08 95 16 00-0005 SI Plastic Foundation Vent.....  | 0.70                      | 0.22                    |

END OF SECTION 08



|                     |           |    |
|---------------------|-----------|----|
| <b>Finishes</b>     | <b>09</b> |    |
| Ceilings            | 09 50     | 09 |
| Acoustical Ceilings | 09 51     |    |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 09 Finishes

### 09 50 Ceilings<sup>(09)</sup>

Note: Includes cutting for area around columns, speakers, sprinklers, diffusers, etc.

### 09 51 Acoustical Ceilings<sup>(09 50)</sup>

Note: Excludes suspension system. See CSI section 09 53 00 00-0000 for suspension systems.

#### 09 51 13 Acoustical Panel Ceilings<sup>(09 51)</sup>

Note: Includes cutting around sprinkler heads, speakers, or other penetrations through the ceiling.

##### 09 51 13 00-0001 Fiberglass Panels<sup>(09 51 13)</sup>

##### 09 51 13 00-0002 Fiberglass Acoustical Panels<sup>(09 51 13 00-0001)</sup>

Note: Includes square or tegular edge and class A fire rating.

|                  |  |       |      |
|------------------|--|-------|------|
| 09 51 13 00-0003 | SF 2' x 2' x 3/4" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....  | 8.91  | 0.51 |
|                  | For Up To 50, Add  | 2.00  |      |
|                  | For >50 To 200, Add  | 1.22  |      |
|                  | For >200 To 500, Add   | 0.53  |      |
|                  | For >2,500 To 4,000, Deduct  | -0.22 |      |
|                  | For >4,000 To 5,000, Deduct  | -0.45 |      |
|                  | For >5,000, Deduct   | -0.71 |      |
|                  | For Individual Room Quantities <495, Add   | 1.22  |      |
|                  | Note: For use with projects >500 SF  |       |      |
|                  | For Ceilings >10' High, Add  | 0.12  |      |
| 09 51 13 00-0004 | SF 2' x 4' x 3/4" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....  | 8.85  | 0.51 |
|                  | For Up To 50, Add  | 1.99  |      |
|                  | For >50 To 200, Add  | 1.22  |      |
|                  | For >200 To 500, Add   | 0.53  |      |
|                  | For >2,500 To 4,000, Deduct  | -0.22 |      |
|                  | For >4,000 To 5,000, Deduct  | -0.44 |      |
|                  | For >5,000, Deduct   | -0.71 |      |
|                  | For Individual Room Quantities <495, Add   | 1.22  |      |
|                  | Note: For use with projects >500 SF  |       |      |
|                  | For Ceilings >10' High, Add  | 0.12  |      |
| 09 51 13 00-0005 | SF 2' x 2' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....  | 9.42  | 0.63 |
|                  | For Up To 50, Add  | 2.13  |      |
|                  | For >50 To 200, Add  | 1.30  |      |
|                  | For >200 To 500, Add   | 0.56  |      |
|                  | For >2,500 To 4,000, Deduct  | -0.24 |      |
|                  | For >4,000 To 5,000, Deduct  | -0.47 |      |
|                  | For >5,000, Deduct   | -0.75 |      |
|                  | For Individual Room Quantities <495, Add   | 1.30  |      |
|                  | Note: For use with projects >500 SF  |       |      |
|                  | For Ceilings >10' High, Add  | 0.13  |      |
| 09 51 13 00-0006 | SF 2' x 4' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....  | 9.52  | 0.63 |
|                  | For Up To 50, Add  | 2.14  |      |
|                  | For >50 To 200, Add  | 1.31  |      |
|                  | For >200 To 500, Add   | 0.57  |      |
|                  | For >2,500 To 4,000, Deduct  | -0.24 |      |
|                  | For >4,000 To 5,000, Deduct  | -0.48 |      |
|                  | For >5,000, Deduct   | -0.76 |      |
|                  | For Individual Room Quantities <495, Add   | 1.31  |      |
|                  | Note: For use with projects >500 SF  |       |      |
|                  | For Ceilings >10' High, Add  | 0.13  |      |
| 09 51 13 00-0007 | SF 2' x 2' x 1" Thick, Square or Beveled Tegular Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®<br>3352, 3354, and 3355) ..... | 9.78  | 0.63 |
|                  | For Up To 50, Add  | 2.18  |      |
|                  | For >50 To 200, Add  | 1.33  |      |
|                  | For >200 To 500, Add   | 0.58  |      |
|                  | For >2,500 To 4,000, Deduct  | -0.24 |      |
|                  | For >4,000 To 5,000, Deduct  | -0.49 |      |
|                  | For >5,000, Deduct   | -0.78 |      |
|                  | For Individual Room Quantities <495, Add   | 1.33  |      |
|                  | Note: For use with projects >500 SF  |       |      |
|                  | For Ceilings >10' High, Add  | 0.13  |      |
| 09 51 13 00-0008 | SF 2' x 4' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3353) .....                                       | 9.77  | 0.63 |
|                  | For Up To 50, Add  | 2.18  |      |
|                  | For >50 To 200, Add  | 1.33  |      |
|                  | For >200 To 500, Add   | 0.58  |      |
|                  | For >2,500 To 4,000, Deduct  | -0.24 |      |
|                  | For >4,000 To 5,000, Deduct  | -0.49 |      |
|                  | For >5,000, Deduct   | -0.78 |      |
|                  | For Individual Room Quantities <495, Add   | 1.33  |      |
|                  | Note: For use with projects >500 SF  |       |      |
|                  | For Ceilings >10' High, Add  | 0.13  |      |

**09 Finishes**

**09 50 Ceilings**

**09 51 Acoustical Ceilings**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 09 51 13 00-0009        | SF  |     | 2' x 2' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™) .....                   | 10.18                  | 0.63                 |
|                         |     |     | For Up To 50, Add  | 2.24                   |                      |
|                         |     |     | For >50 To 200, Add  | 1.37                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.60                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.25                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.51                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.81                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 1.37                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.13                   |                      |
| 09 51 13 00-0010        | SF  |     | 2' x 4' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™) .....                   | 10.16                  | 0.63                 |
|                         |     |     | For Up To 50, Add  | 2.24                   |                      |
|                         |     |     | For >50 To 200, Add  | 1.37                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.60                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.25                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.51                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.81                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 1.37                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.13                   |                      |
| <b>09 51 13 00-0011</b> |     |     | <b>Mineral Fiber Panels</b> (09 51 13)   |                        |                      |
| <b>09 51 13 00-0012</b> |     |     | <b>Mineral Fiber Acoustical Ceiling Panels</b> (09 51 13 00-0011)  |                        |                      |
|                         |     |     | Note: Includes square or tegular edge and class A fire rating.   |                        |                      |
| 09 51 13 00-0013        | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....            | 2.80                   | 0.51                 |
|                         |     |     | For Up To 50, Add  | 1.08                   |                      |
|                         |     |     | For >50 To 200, Add  | 0.61                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.22                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.07                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.14                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.25                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 0.61                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Vertical Application, Add  | 0.74                   |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.12                   |                      |
| 09 51 13 00-0014        | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....            | 2.78                   | 0.76                 |
|                         |     |     | For Up To 50, Add  | 1.08                   |                      |
|                         |     |     | For >50 To 200, Add  | 0.61                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.22                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.07                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.14                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.25                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 0.61                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Vertical Application, Add  | 0.74                   |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.12                   |                      |
| 09 51 13 00-0015        | SF  |     | 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....   | 3.06                   | 0.51                 |
|                         |     |     | For Up To 50, Add  | 1.12                   |                      |
|                         |     |     | For >50 To 200, Add  | 0.64                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.24                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.08                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.15                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.27                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 0.64                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Vertical Application, Add  | 0.74                   |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.12                   |                      |
| 09 51 13 00-0016        | SF  |     | 2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....   | 3.06                   | 0.51                 |
|                         |     |     | For Up To 50, Add  | 1.12                   |                      |
|                         |     |     | For >50 To 200, Add  | 0.64                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.24                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.08                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.15                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.27                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 0.64                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Vertical Application, Add  | 0.74                   |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.12                   |                      |
| 09 51 13 00-0017        | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega Fire Guard) ..... | 3.27                   | 0.76                 |
|                         |     |     | For Up To 50, Add  | 1.15                   |                      |
|                         |     |     | For >50 To 200, Add  | 0.66                   |                      |
|                         |     |     | For >200 To 500, Add   | 0.25                   |                      |
|                         |     |     | For >2,500 To 4,000, Deduct  | -0.08                  |                      |
|                         |     |     | For >4,000 To 5,000, Deduct  | -0.16                  |                      |
|                         |     |     | For >5,000, Deduct   | -0.29                  |                      |
|                         |     |     | For Individual Room Quantities <495, Add   | 0.66                   |                      |
|                         |     |     | Note: For use with projects >500 SF  |                        |                      |
|                         |     |     | For Vertical Application, Add  | 0.74                   |                      |
|                         |     |     | For Ceilings >10' High, Add  | 0.12                   |                      |



|  |  |                     |           |
|--|--|---------------------|-----------|
|  |  | <b>Finishes</b>     | <b>09</b> |
|  |  | Ceilings            | 09 50     |
|  |  | Acoustical Ceilings | 09 51     |

09

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 09 51 13 00-0018 | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega Fire Guard) .....          | 3.28                   | 0.76                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.15                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.66                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.25                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.08                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.16                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.29                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.66                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |
| 09 51 13 00-0019 | SF  |     | 2' x 2' x 5/8" Thick, Beveled Tegalur Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega Fire Guard) ..... | 3.55                   | 0.76                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.19                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.69                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.26                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.09                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.18                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.31                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.69                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |
| 09 51 13 00-0020 | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Designer) .....                    | 3.04                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.12                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.63                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.23                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.08                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.15                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.27                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.63                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |
| 09 51 13 00-0021 | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Designer) .....                    | 3.03                   | 0.76                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.11                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.63                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.23                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.08                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.15                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.27                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.63                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |
| 09 51 13 00-0022 | SF  |     | 2' x 2' x 5/8" Thick, Beveled Tegalur Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Designer) .....           | 3.45                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.18                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.68                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.26                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.09                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.17                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.30                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.68                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |
| 09 51 13 00-0023 | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured) .....                    | 2.80                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.08                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.61                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.22                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.07                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.14                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.25                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.61                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |
| 09 51 13 00-0024 | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured) .....                    | 2.78                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>  | 1.08                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>   | 0.61                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>  | 0.22                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>   | -0.07                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>   | -0.14                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>  | -0.25                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>  | 0.61                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>   |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>  | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>   | 0.12                   |                      |



**09 Finishes**

**09 50 Ceilings**

**09 51 Acoustical Ceilings**



| MINOR            |  | TOTAL DIRECT | DEMOLITION |
|------------------|--|--------------|------------|
| CSI              | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 09 51 13 00-0025 | SF 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured).....      | 3.06         | 0.51       |
|                  | For Up To 50, Add  | 1.12         |            |
|                  | For >50 To 200, Add  | 0.64         |            |
|                  | For >200 To 500, Add   | 0.24         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.08        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.15        |            |
|                  | For >5,000, Deduct   | -0.27        |            |
|                  | For Individual Room Quantities <495, Add   | 0.64         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0026 | SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....          | 2.82         | 0.51       |
|                  | For Up To 50, Add  | 1.08         |            |
|                  | For >50 To 200, Add  | 0.61         |            |
|                  | For >200 To 500, Add   | 0.22         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.07        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.14        |            |
|                  | For >5,000, Deduct   | -0.25        |            |
|                  | For Individual Room Quantities <495, Add   | 0.61         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0027 | SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....          | 2.81         | 0.51       |
|                  | For Up To 50, Add  | 1.08         |            |
|                  | For >50 To 200, Add  | 0.61         |            |
|                  | For >200 To 500, Add   | 0.22         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.07        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.14        |            |
|                  | For >5,000, Deduct   | -0.25        |            |
|                  | For Individual Room Quantities <495, Add   | 0.61         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0028 | SF 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured)..... | 3.20         | 0.51       |
|                  | For Up To 50, Add  | 1.14         |            |
|                  | For >50 To 200, Add  | 0.65         |            |
|                  | For >200 To 500, Add   | 0.24         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.08        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.16        |            |
|                  | For >5,000, Deduct   | -0.28        |            |
|                  | For Individual Room Quantities <495, Add   | 0.65         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0029 | SF 2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured)..... | 3.20         | 0.51       |
|                  | For Up To 50, Add  | 1.14         |            |
|                  | For >50 To 200, Add  | 0.65         |            |
|                  | For >200 To 500, Add   | 0.24         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.08        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.16        |            |
|                  | For >5,000, Deduct   | -0.28        |            |
|                  | For Individual Room Quantities <495, Add   | 0.65         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0030 | SF 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....          | 3.35         | 0.51       |
|                  | For Up To 50, Add  | 1.16         |            |
|                  | For >50 To 200, Add  | 0.67         |            |
|                  | For >200 To 500, Add   | 0.25         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.08        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.17        |            |
|                  | For >5,000, Deduct   | -0.29        |            |
|                  | For Individual Room Quantities <495, Add   | 0.67         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0031 | SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....          | 3.90         | 0.51       |
|                  | For Up To 50, Add  | 1.25         |            |
|                  | For >50 To 200, Add  | 0.72         |            |
|                  | For >200 To 500, Add   | 0.28         |            |
|                  | For >2,500 To 4,000, Deduct  | -0.10        |            |
|                  | For >4,000 To 5,000, Deduct  | -0.20        |            |
|                  | For >5,000, Deduct   | -0.33        |            |
|                  | For Individual Room Quantities <495, Add   | 0.72         |            |
|                  | Note: For use with projects >500 SF  |              |            |
|                  | For Vertical Application, Add  | 0.74         |            |
|                  | For Ceilings >10' High, Add  | 0.12         |            |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Finishes</b>     | <b>09</b> | <b>09</b> |
| Ceilings            | 09 50     |           |
| Acoustical Ceilings | 09 51     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 09 51 13 00-0032 SF 2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....             | 3.27                      | 0.51                    |
| For Up To 50, Add   | 1.15                      |                         |
| For >50 To 200, Add   | 0.66                      |                         |
| For >200 To 500, Add  | 0.25                      |                         |
| For >2,500 To 4,000, Deduct   | -0.08                     |                         |
| For >4,000 To 5,000, Deduct   | -0.16                     |                         |
| For >5,000, Deduct  | -0.29                     |                         |
| For Individual Room Quantities <495, Add  | 0.66                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0033 SF 2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....             | 3.92                      | 0.51                    |
| For Up To 50, Add   | 1.25                      |                         |
| For >50 To 200, Add   | 0.72                      |                         |
| For >200 To 500, Add  | 0.28                      |                         |
| For >2,500 To 4,000, Deduct   | -0.10                     |                         |
| For >4,000 To 5,000, Deduct   | -0.20                     |                         |
| For >5,000, Deduct  | -0.34                     |                         |
| For Individual Room Quantities <495, Add  | 0.72                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0034 SF 30" x 60" x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....                    | 3.08                      | 0.51                    |
| For Up To 50, Add   | 1.12                      |                         |
| For >50 To 200, Add   | 0.64                      |                         |
| For >200 To 500, Add  | 0.24                      |                         |
| For >2,500 To 4,000, Deduct   | -0.08                     |                         |
| For >4,000 To 5,000, Deduct   | -0.15                     |                         |
| For >5,000, Deduct  | -0.27                     |                         |
| For Individual Room Quantities <495, Add  | 0.64                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0035 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) .....          | 3.35                      | 0.76                    |
| For Up To 50, Add   | 1.16                      |                         |
| For >50 To 200, Add   | 0.67                      |                         |
| For >200 To 500, Add  | 0.25                      |                         |
| For >2,500 To 4,000, Deduct   | -0.08                     |                         |
| For >4,000 To 5,000, Deduct   | -0.17                     |                         |
| For >5,000, Deduct  | -0.29                     |                         |
| For Individual Room Quantities <495, Add  | 0.67                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0036 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) .....          | 3.29                      | 0.76                    |
| For Up To 50, Add   | 1.15                      |                         |
| For >50 To 200, Add   | 0.66                      |                         |
| For >200 To 500, Add  | 0.25                      |                         |
| For >2,500 To 4,000, Deduct   | -0.08                     |                         |
| For >4,000 To 5,000, Deduct   | -0.16                     |                         |
| For >5,000, Deduct  | -0.29                     |                         |
| For Individual Room Quantities <495, Add  | 0.66                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0037 SF 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) ..... | 3.68                      | 0.76                    |
| For Up To 50, Add   | 1.21                      |                         |
| For >50 To 200, Add   | 0.70                      |                         |
| For >200 To 500, Add  | 0.27                      |                         |
| For >2,500 To 4,000, Deduct   | -0.09                     |                         |
| For >4,000 To 5,000, Deduct   | -0.18                     |                         |
| For >5,000, Deduct  | -0.32                     |                         |
| For Individual Room Quantities <495, Add  | 0.70                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0038 SF 2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) ..... | 3.68                      | 0.76                    |
| For Up To 50, Add   | 1.21                      |                         |
| For >50 To 200, Add   | 0.70                      |                         |
| For >200 To 500, Add  | 0.27                      |                         |
| For >2,500 To 4,000, Deduct   | -0.09                     |                         |
| For >4,000 To 5,000, Deduct   | -0.18                     |                         |
| For >5,000, Deduct  | -0.32                     |                         |
| For Individual Room Quantities <495, Add  | 0.70                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0039 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ceramaguard Fine Fissured).....          | 8.47                      | 0.89                    |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |

## 09 Finishes

## 09 50 Ceilings

## 09 51 Acoustical Ceilings



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 09 51 13 00-0040 | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....          | 3.52                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.19                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.68                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.26                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.09                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.18                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.31                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.68                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0041 | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....          | 3.51                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.19                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.68                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.26                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.09                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.18                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.30                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.68                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0042 | SF  |     | 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....          | 4.08                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.27                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.74                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.29                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.10                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.20                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.35                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.74                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0043 | SF  |     | 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™)..... | 3.75                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.22                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.71                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.27                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.09                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.19                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.32                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.71                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0044 | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....               | 3.70                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.22                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.70                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.27                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.09                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.19                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.32                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.70                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0045 | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....               | 3.70                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.22                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.70                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.27                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.09                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.19                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.32                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.70                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0046 | SF  |     | 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....      | 3.88                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.24                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.72                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.28                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.10                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.19                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.33                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.72                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |



|                     |           |    |
|---------------------|-----------|----|
| <b>Finishes</b>     | <b>09</b> |    |
| Ceilings            | 09 50     | 09 |
| Acoustical Ceilings | 09 51     |    |

| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 09 51 13 00-0047 SF 2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune) .....  | 4.02         | 0.51       |
| For Up To 50, Add  | 1.26         |            |
| For >50 To 200, Add  | 0.73         |            |
| For >200 To 500, Add   | 0.28         |            |
| For >2,500 To 4,000, Deduct  | -0.10        |            |
| For >4,000 To 5,000, Deduct  | -0.20        |            |
| For >5,000, Deduct   | -0.34        |            |
| For Individual Room Quantities <495, Add   | 0.73         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0048 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune Fire Guard)..... | 4.23         | 0.51       |
| For Up To 50, Add  | 1.29         |            |
| For >50 To 200, Add  | 0.75         |            |
| For >200 To 500, Add   | 0.29         |            |
| For >2,500 To 4,000, Deduct  | -0.11        |            |
| For >4,000 To 5,000, Deduct  | -0.21        |            |
| For >5,000, Deduct   | -0.36        |            |
| For Individual Room Quantities <495, Add   | 0.75         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0049 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune Fire Guard)..... | 4.20         | 0.51       |
| For Up To 50, Add  | 1.29         |            |
| For >50 To 200, Add  | 0.75         |            |
| For >200 To 500, Add   | 0.29         |            |
| For >2,500 To 4,000, Deduct  | -0.11        |            |
| For >4,000 To 5,000, Deduct  | -0.21        |            |
| For >5,000, Deduct   | -0.36        |            |
| For Individual Room Quantities <495, Add   | 0.75         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0050 SF 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa) .....           | 4.09         | 0.76       |
| For Up To 50, Add  | 1.27         |            |
| For >50 To 200, Add  | 0.74         |            |
| For >200 To 500, Add   | 0.29         |            |
| For >2,500 To 4,000, Deduct  | -0.10        |            |
| For >4,000 To 5,000, Deduct  | -0.20        |            |
| For >5,000, Deduct   | -0.35        |            |
| For Individual Room Quantities <495, Add   | 0.74         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0051 SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa) .....           | 4.08         | 0.76       |
| For Up To 50, Add  | 1.27         |            |
| For >50 To 200, Add  | 0.74         |            |
| For >200 To 500, Add   | 0.29         |            |
| For >2,500 To 4,000, Deduct  | -0.10        |            |
| For >4,000 To 5,000, Deduct  | -0.20        |            |
| For >5,000, Deduct   | -0.35        |            |
| For Individual Room Quantities <495, Add   | 0.74         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0052 SF 2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa).....   | 4.40         | 0.51       |
| For Up To 50, Add  | 1.32         |            |
| For >50 To 200, Add  | 0.77         |            |
| For >200 To 500, Add   | 0.30         |            |
| For >2,500 To 4,000, Deduct  | -0.11        |            |
| For >4,000 To 5,000, Deduct  | -0.22        |            |
| For >5,000, Deduct   | -0.37        |            |
| For Individual Room Quantities <495, Add   | 0.77         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |
| 09 51 13 00-0053 SF 2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa).....   | 4.31         | 0.51       |
| For Up To 50, Add  | 1.31         |            |
| For >50 To 200, Add  | 0.76         |            |
| For >200 To 500, Add   | 0.30         |            |
| For >2,500 To 4,000, Deduct  | -0.11        |            |
| For >4,000 To 5,000, Deduct  | -0.22        |            |
| For >5,000, Deduct   | -0.36        |            |
| For Individual Room Quantities <495, Add   | 0.76         |            |
| Note: For use with projects >500 SF  |              |            |
| For Vertical Application, Add  | 0.74         |            |
| For Ceilings >10' High, Add  | 0.12         |            |

## 09 Finishes

## 09 50 Ceilings

## 09 51 Acoustical Ceilings



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 09 51 13 00-0054 | SF  |     | 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus).....                         | 5.23                   | 0.76                 |
|                  |     |     | For Up To 50, Add   | 1.44                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.85                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.34                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.13                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.26                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.43                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.85                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0055 | SF  |     | 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus).....                         | 5.19                   | 0.76                 |
|                  |     |     | For Up To 50, Add   | 1.44                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.85                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.34                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.13                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.26                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.43                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.85                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0056 | SF  |     | 2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus) .....               | 5.23                   | 0.76                 |
|                  |     |     | For Up To 50, Add   | 1.44                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.85                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.34                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.13                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.26                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.43                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.85                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0057 | SF  |     | 2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus) .....               | 5.19                   | 0.76                 |
|                  |     |     | For Up To 50, Add   | 1.44                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.85                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.34                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.13                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.26                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.43                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.85                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0058 | SF  |     | 2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus Second<br>Look)..... | 5.71                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.52                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.90                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.37                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.14                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.29                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.47                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.90                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0059 | SF  |     | 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra).....                         | 5.67                   | 0.76                 |
|                  |     |     | For Up To 50, Add   | 1.51                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.90                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.37                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.14                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.28                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.47                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.90                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0060 | SF  |     | 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra).....                         | 5.66                   | 0.76                 |
|                  |     |     | For Up To 50, Add   | 1.51                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.90                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.37                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.14                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.28                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.47                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.90                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |



|  |  |                     |           |
|--|--|---------------------|-----------|
|  |  | <b>Finishes</b>     | <b>09</b> |
|  |  | Ceilings            | 09 50     |
|  |  | Acoustical Ceilings | 09 51     |

09

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 09 51 13 00-0061 | SF  |     | 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra) .....  | 6.10                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.58                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.94                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.39                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.15                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.31                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.50                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.94                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.12                   |                      |
| 09 51 13 00-0062 | SF  |     | 2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra) .....  | 6.10                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.58                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.94                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.39                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.15                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.31                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.50                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.94                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.12                   |                      |
| 09 51 13 00-0063 | SF  |     | 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®) .....          | 5.69                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.51                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.90                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.37                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.14                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.28                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.47                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.90                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.12                   |                      |
| 09 51 13 00-0064 | SF  |     | 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®) .....          | 5.69                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.51                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.90                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.37                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.14                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.28                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.47                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.90                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.12                   |                      |
| 09 51 13 00-0065 | SF  |     | 2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®) ..... | 5.69                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.51                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.90                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.37                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.14                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.28                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.47                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.90                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.12                   |                      |
| 09 51 13 00-0066 | SF  |     | 2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®) ..... | 5.69                   | 0.51                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.51                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.90                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.37                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.14                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.28                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.47                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.90                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.74                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.12                   |                      |
| 09 51 13 00-0067 | SF  |     | 2' x 2' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC) .....  | 6.12                   | 0.63                 |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.63                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.97                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.40                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.15                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.31                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.50                  |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.97                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 0.80                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.13                   |                      |

**09 Finishes**

**09 50 Ceilings**

**09 51 Acoustical Ceilings**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 09 51 13 00-0068 | SF  |     | 2' x 4' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC).....              | 6.12                   | 0.63                 |
|                  |     |     | For Up To 50, Add   | 1.63                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.97                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.40                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.15                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.31                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.50                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.97                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.80                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.13                   |                      |
| 09 51 13 00-0069 | SF  |     | 2' x 2' x 7/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC) .....    | 6.12                   | 0.63                 |
|                  |     |     | For Up To 50, Add   | 1.63                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.97                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.40                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.15                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.31                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.50                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.97                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.80                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.13                   |                      |
| 09 51 13 00-0070 | SF  |     | 2' x 4' x 7/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC) .....    | 6.12                   | 0.63                 |
|                  |     |     | For Up To 50, Add   | 1.63                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.97                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.40                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.15                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.31                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.50                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.97                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.80                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.13                   |                      |
| 09 51 13 00-0071 | SF  |     | 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™) .....         | 6.39                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.62                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.97                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.40                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.16                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.32                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.52                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.97                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0072 | SF  |     | 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™) .....         | 6.39                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.62                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.97                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.40                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.16                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.32                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.52                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.97                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0073 | SF  |     | 2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™)..... | 6.39                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.62                   |                      |
|                  |     |     | For >50 To 200, Add   | 0.97                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.40                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.16                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.32                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.52                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 0.97                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.74                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.12                   |                      |
| 09 51 13 00-0074 | SF  |     | 2' x 2' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™ High-NRC)..... | 7.24                   | 0.51                 |
|                  |     |     | For Up To 50, Add   | 1.80                   |                      |
|                  |     |     | For >50 To 200, Add   | 1.08                   |                      |
|                  |     |     | For >200 To 500, Add  | 0.45                   |                      |
|                  |     |     | For >2,500 To 4,000, Deduct   | -0.18                  |                      |
|                  |     |     | For >4,000 To 5,000, Deduct   | -0.36                  |                      |
|                  |     |     | For >5,000, Deduct  | -0.59                  |                      |
|                  |     |     | For Individual Room Quantities <495, Add  | 1.08                   |                      |
|                  |     |     | Note: For use with projects >500 SF   |                        |                      |
|                  |     |     | For Vertical Application, Add   | 0.80                   |                      |
|                  |     |     | For Ceilings >10' High, Add   | 0.13                   |                      |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Finishes</b>     | <b>09</b> | <b>09</b> |
| Ceilings            | 09 50     |           |
| Acoustical Ceilings | 09 51     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 09 51 13 00-0075 SF 2' x 4' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™ High-NRC) .....          | 7.14                      | 0.51                    |
| For Up To 50, Add   | 1.78                      |                         |
| For >50 To 200, Add   | 1.07                      |                         |
| For >200 To 500, Add  | 0.45                      |                         |
| For >2,500 To 4,000, Deduct   | -0.18                     |                         |
| For >4,000 To 5,000, Deduct   | -0.36                     |                         |
| For >5,000, Deduct  | -0.58                     |                         |
| For Individual Room Quantities <495, Add  | 1.07                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.80                      |                         |
| For Ceilings >10' High, Add   | 0.13                      |                         |
| 09 51 13 00-0076 SF 2' x 2' x 7/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™ High-NRC) ..... | 7.19                      | 0.51                    |
| For Up To 50, Add   | 1.79                      |                         |
| For >50 To 200, Add   | 1.08                      |                         |
| For >200 To 500, Add  | 0.45                      |                         |
| For >2,500 To 4,000, Deduct   | -0.18                     |                         |
| For >4,000 To 5,000, Deduct   | -0.36                     |                         |
| For >5,000, Deduct  | -0.58                     |                         |
| For Individual Room Quantities <495, Add  | 1.08                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.80                      |                         |
| For Ceilings >10' High, Add   | 0.13                      |                         |
| 09 51 13 00-0077 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL).....                                     | 6.73                      | 0.51                    |
| For Up To 50, Add   | 1.67                      |                         |
| For >50 To 200, Add   | 1.00                      |                         |
| For >200 To 500, Add  | 0.42                      |                         |
| For >2,500 To 4,000, Deduct   | -0.17                     |                         |
| For >4,000 To 5,000, Deduct   | -0.34                     |                         |
| For >5,000, Deduct  | -0.55                     |                         |
| For Individual Room Quantities <495, Add  | 1.00                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0078 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL).....                                     | 6.61                      | 0.51                    |
| For Up To 50, Add   | 1.65                      |                         |
| For >50 To 200, Add   | 0.99                      |                         |
| For >200 To 500, Add  | 0.41                      |                         |
| For >2,500 To 4,000, Deduct   | -0.17                     |                         |
| For >4,000 To 5,000, Deduct   | -0.33                     |                         |
| For >5,000, Deduct  | -0.54                     |                         |
| For Individual Room Quantities <495, Add  | 0.99                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.74                      |                         |
| For Ceilings >10' High, Add   | 0.12                      |                         |
| 09 51 13 00-0079 SF 2' x 2' x 1" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla).....                                    | 7.31                      | 0.63                    |
| For Up To 50, Add   | 1.81                      |                         |
| For >50 To 200, Add   | 1.09                      |                         |
| For >200 To 500, Add  | 0.45                      |                         |
| For >2,500 To 4,000, Deduct   | -0.18                     |                         |
| For >4,000 To 5,000, Deduct   | -0.37                     |                         |
| For >5,000, Deduct  | -0.59                     |                         |
| For Individual Room Quantities <495, Add  | 1.09                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.80                      |                         |
| For Ceilings >10' High, Add   | 0.13                      |                         |
| 09 51 13 00-0080 SF 2' x 4' x 1" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla).....                                    | 7.31                      | 0.63                    |
| For Up To 50, Add   | 1.81                      |                         |
| For >50 To 200, Add   | 1.09                      |                         |
| For >200 To 500, Add  | 0.45                      |                         |
| For >2,500 To 4,000, Deduct   | -0.18                     |                         |
| For >4,000 To 5,000, Deduct   | -0.37                     |                         |
| For >5,000, Deduct  | -0.59                     |                         |
| For Individual Room Quantities <495, Add  | 1.09                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.80                      |                         |
| For Ceilings >10' High, Add   | 0.13                      |                         |
| 09 51 13 00-0081 SF 2' x 2' x 1" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla) .....                          | 7.31                      | 0.51                    |
| For Up To 50, Add   | 1.81                      |                         |
| For >50 To 200, Add   | 1.09                      |                         |
| For >200 To 500, Add  | 0.45                      |                         |
| For >2,500 To 4,000, Deduct   | -0.18                     |                         |
| For >4,000 To 5,000, Deduct   | -0.37                     |                         |
| For >5,000, Deduct  | -0.59                     |                         |
| For Individual Room Quantities <495, Add  | 1.09                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Vertical Application, Add   | 0.80                      |                         |
| For Ceilings >10' High, Add   | 0.13                      |                         |



**09 Finishes**

**09 50 Ceilings**

**09 51 Acoustical Ceilings**



| MINOR                   |     |   |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|---|--|--------------|------------|
| CSI                     | UOM | DESCRIPTION   |  | UNIT COST    | UNIT COST  |
| 09 51 13 00-0082        | SF  | 2' x 4' x 1" Thick, Beveled Tederal Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla).....       |  | 7.31         | 0.63       |
|                         |     | <i>For Up To 50, Add</i>  |  | 1.81         |            |
|                         |     | <i>For &gt;50 To 200, Add</i>   |  | 1.09         |            |
|                         |     | <i>For &gt;200 To 500, Add</i>  |  | 0.45         |            |
|                         |     | <i>For &gt;2,500 To 4,000, Deduct</i>   |  | -0.18        |            |
|                         |     | <i>For &gt;4,000 To 5,000, Deduct</i>   |  | -0.37        |            |
|                         |     | <i>For &gt;5,000, Deduct</i>  |  | -0.59        |            |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 1.09         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Vertical Application, Add</i>  |  | 0.80         |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.13         |            |
| 09 51 13 00-0083        | SF  | 20" x 60" x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™ 2617).....            |  | 2.73         | 0.51       |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 0.60         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Vertical Application, Add</i>  |  | 0.74         |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.12         |            |
| 09 51 13 00-0084        | SF  | 20" x 60" x 5/8" Thick, Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™ 2627).....           |  | 2.81         | 0.51       |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 0.61         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Vertical Application, Add</i>  |  | 0.74         |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.12         |            |
| 09 51 13 00-0085        | SF  | 2' x 4' x 3/4" Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™ Illusion Basic Two 2742)..... |  | 4.11         | 0.51       |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 0.74         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Vertical Application, Add</i>  |  | 0.74         |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.12         |            |
| <b>09 51 13 00-0086</b> |     | <b>Wood Fiber Panels</b> <small>(09 51 13)</small>  |  |              |            |
| 09 51 13 00-0087        | SF  | 2' x 2' x 1/2" Wood Fiber Acoustical Ceiling Panels.....  |  | 6.78         | 0.76       |
|                         |     | <i>For Up To 50, Add</i>  |  | 1.92         |            |
|                         |     | <i>For &gt;50 To 200, Add</i>   |  | 1.13         |            |
|                         |     | <i>For &gt;200 To 500, Add</i>  |  | 0.45         |            |
|                         |     | <i>For &gt;2,500 To 4,000, Deduct</i>   |  | -0.17        |            |
|                         |     | <i>For &gt;4,000 To 5,000, Deduct</i>   |  | -0.34        |            |
|                         |     | <i>For &gt;5,000, Deduct</i>  |  | -0.57        |            |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 1.13         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.17         |            |
| 09 51 13 00-0088        | SF  | 2' x 4' x 1/2" Wood Fiber Acoustical Ceiling Panels.....  |  | 6.55         | 0.76       |
|                         |     | <i>For Up To 50, Add</i>  |  | 1.79         |            |
|                         |     | <i>For &gt;50 To 200, Add</i>   |  | 1.06         |            |
|                         |     | <i>For &gt;200 To 500, Add</i>  |  | 0.43         |            |
|                         |     | <i>For &gt;2,500 To 4,000, Deduct</i>   |  | -0.16        |            |
|                         |     | <i>For &gt;4,000 To 5,000, Deduct</i>   |  | -0.33        |            |
|                         |     | <i>For &gt;5,000, Deduct</i>  |  | -0.54        |            |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 1.06         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.15         |            |
| 09 51 13 00-0089        | SF  | 2' x 2' x 5/8" Wood Fiber Acoustical Ceiling Panels.....  |  | 8.80         | 0.76       |
|                         |     | <i>For Up To 50, Add</i>  |  | 2.22         |            |
|                         |     | <i>For &gt;50 To 200, Add</i>   |  | 1.33         |            |
|                         |     | <i>For &gt;200 To 500, Add</i>  |  | 0.55         |            |
|                         |     | <i>For &gt;2,500 To 4,000, Deduct</i>   |  | -0.22        |            |
|                         |     | <i>For &gt;4,000 To 5,000, Deduct</i>   |  | -0.44        |            |
|                         |     | <i>For &gt;5,000, Deduct</i>  |  | -0.72        |            |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 1.33         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.17         |            |
| 09 51 13 00-0090        | SF  | 2' x 4' x 5/8" Wood Fiber Acoustical Ceiling Panels.....  |  | 8.57         | 0.76       |
|                         |     | <i>For Up To 50, Add</i>  |  | 2.10         |            |
|                         |     | <i>For &gt;50 To 200, Add</i>   |  | 1.26         |            |
|                         |     | <i>For &gt;200 To 500, Add</i>  |  | 0.53         |            |
|                         |     | <i>For &gt;2,500 To 4,000, Deduct</i>   |  | -0.21        |            |
|                         |     | <i>For &gt;4,000 To 5,000, Deduct</i>   |  | -0.43        |            |
|                         |     | <i>For &gt;5,000, Deduct</i>  |  | -0.69        |            |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 1.26         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.15         |            |
| 09 51 13 00-0091        | SF  | 2' x 2' x 3/4" Wood Fiber Acoustical Ceiling Panels.....  |  | 10.74        | 0.76       |
|                         |     | <i>For Up To 50, Add</i>  |  | 2.52         |            |
|                         |     | <i>For &gt;50 To 200, Add</i>   |  | 1.53         |            |
|                         |     | <i>For &gt;200 To 500, Add</i>  |  | 0.65         |            |
|                         |     | <i>For &gt;2,500 To 4,000, Deduct</i>   |  | -0.27        |            |
|                         |     | <i>For &gt;4,000 To 5,000, Deduct</i>   |  | -0.54        |            |
|                         |     | <i>For &gt;5,000, Deduct</i>  |  | -0.86        |            |
|                         |     | <i>For Individual Room Quantities &lt;495, Add</i>  |  | 1.53         |            |
|                         |     | <i>Note: For use with projects &gt;500 SF</i>   |  |              |            |
|                         |     | <i>For Ceilings &gt;10' High, Add</i>   |  | 0.17         |            |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Finishes</b>     | <b>09</b> | <b>09</b> |
| Ceilings            | 09 50     |           |
| Acoustical Ceilings | 09 51     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 09 51 13 00-0092 SF 2' x 4' x 3/4" Wood Fiber Acoustical Ceiling Panels.....                      | 10.51                     | 0.76                    |
| For Up To 50, Add   | 2.39                      |                         |
| For >50 To 200, Add   | 1.46                      |                         |
| For >200 To 500, Add  | 0.63                      |                         |
| For >2,500 To 4,000, Deduct   | -0.26                     |                         |
| For >4,000 To 5,000, Deduct   | -0.53                     |                         |
| For >5,000, Deduct  | -0.84                     |                         |
| For Individual Room Quantities <495, Add  | 1.46                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Ceilings >10' High, Add   | 0.15                      |                         |
| 09 51 13 00-0093 SF 2' x 2' x 1" Wood Fiber Acoustical Ceiling Panels.....                        | 7.96                      | 0.76                    |
| For Up To 50, Add   | 2.10                      |                         |
| For >50 To 200, Add   | 1.25                      |                         |
| For >200 To 500, Add  | 0.51                      |                         |
| For >2,500 To 4,000, Deduct   | -0.20                     |                         |
| For >4,000 To 5,000, Deduct   | -0.40                     |                         |
| For >5,000, Deduct  | -0.65                     |                         |
| For Individual Room Quantities <495, Add  | 1.25                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Ceilings >10' High, Add   | 0.17                      |                         |
| 09 51 13 00-0094 SF 2' x 4' x 1" Wood Fiber Acoustical Ceiling Panels.....                        | 7.73                      | 0.76                    |
| For Up To 50, Add   | 1.97                      |                         |
| For >50 To 200, Add   | 1.18                      |                         |
| For >200 To 500, Add  | 0.49                      |                         |
| For >2,500 To 4,000, Deduct   | -0.19                     |                         |
| For >4,000 To 5,000, Deduct   | -0.39                     |                         |
| For >5,000, Deduct  | -0.63                     |                         |
| For Individual Room Quantities <495, Add  | 1.18                      |                         |
| Note: For use with projects >500 SF   |                           |                         |
| For Ceilings >10' High, Add   | 0.15                      |                         |
| <b>09 51 13 00-0095 Removal And Reinstallation Of Acoustical Ceiling Panels (09 51 13)</b>        |                           |                         |
| Note: 2'x2' Or 2'x4'. Includes storage and cleaning.  |                           |                         |
| 09 51 13 00-0096 SF Removal And Reinstallation Of Acoustical Panels Only.....                     | 2.60                      |                         |
| For Up To 50, Add   | 1.43                      |                         |
| For >50 To 200, Add   | 0.78                      |                         |
| For >200 To 500, Add  | 0.26                      |                         |
| For >2,500 To 4,000, Deduct   | -0.07                     |                         |
| For >4,000 To 5,000, Deduct   | -0.13                     |                         |
| For >5,000, Deduct  | -0.26                     |                         |
| For Ceilings >10' High, Add   | 0.20                      |                         |
| <b>09 51 23 Acoustical Tile Ceilings (09 51)</b>  |                           |                         |
| Note: Includes fastening with staples and/or adhesive.  |                           |                         |
| <b>09 51 23 00-0001 Mineral Fiber Acoustical Tile Ceilings (09 51 23)</b>                         |                           |                         |
| 09 51 23 00-0002 SF 12" x 12" x 1/2" Tongue And Groove Mineral Fiber Acoustical Ceiling Tile..... | 6.38                      | 1.40                    |
| For Furring 1 x 3 Strips 12" On Center, Add   | 0.50                      |                         |
| For Up To 50, Add   | 2.23                      |                         |
| For >50 To 200, Add   | 1.27                      |                         |
| For >200 To 500, Add  | 0.48                      |                         |
| For >2,500, Deduct  | -0.32                     |                         |
| For Ceilings >10' High, Add   | 0.24                      |                         |
| 09 51 23 00-0003 SF 12" x 12" x 5/8" Spline Mineral Fiber Acoustical Ceiling Tile.....            | 7.58                      | 1.40                    |
| For Furring 1 x 3 Strips 12" On Center, Add   | 0.50                      |                         |
| For Up To 50, Add   | 2.41                      |                         |
| For >50 To 200, Add   | 1.39                      |                         |
| For >200 To 500, Add  | 0.54                      |                         |
| For >2,500, Deduct  | -0.38                     |                         |
| For Placing Tiles In Suspended Ceiling System, Deduct   | -0.50                     |                         |
| For Ceilings >10' High, Add   | 0.24                      |                         |
| 09 51 23 00-0004 SF 12" x 12" x 3/4" Spline Mineral Fiber Acoustical Ceiling Tile.....            | 8.54                      | 1.40                    |
| For Furring 1 x 3 Strips 12" On Center, Add   | 0.50                      |                         |
| For Up To 50, Add   | 2.55                      |                         |
| For >50 To 200, Add   | 1.49                      |                         |
| For >200 To 500, Add  | 0.59                      |                         |
| For >2,500, Deduct  | -0.43                     |                         |
| For Placing Tiles In Suspended Ceiling System, Deduct   | -0.50                     |                         |
| For Ceilings >10' High, Add   | 0.24                      |                         |
| 09 51 23 00-0005 <b>Wood Fiber Acoustical Tile Ceilings (09 51 23)</b>                            |                           |                         |
| 09 51 23 00-0006 SF 12" x 12" x 1/2" Staple Flange Wood Fiber Acoustical Ceiling Tile.....        | 5.88                      | 1.40                    |
| For Furring 1 x 3 Strips 12" On Center, Add   | 0.50                      |                         |
| For Up To 50, Add   | 2.15                      |                         |
| For >50 To 200, Add   | 1.22                      |                         |
| For >200 To 500, Add  | 0.45                      |                         |
| For >2,500, Deduct  | -0.29                     |                         |
| For Ceilings >10' High, Add   | 0.24                      |                         |
| <b>09 51 33 Acoustical Metal Pan Ceilings (09 51)</b>   |                           |                         |
| <b>09 51 33 13 Acoustical Snap-in Metal Pan Ceilings (09 51 33)</b>                               |                           |                         |

**09 Finishes****09 50 Ceilings****09 51 Acoustical Ceilings**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 09 51 33 13-0001 |     |     | <b>Galvanized Steel, Acoustical Snap-In Metal Ceiling Panels</b> (09 51 33 13)  |                           |                         |
| 09 51 33 13-0002 | SF  |     | 24" x 24", Unperforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™)..... | 23.26                     | 1.11                    |
| 09 51 33 13-0003 | SF  |     | 24" x 24", Perforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....   | 24.89                     | 1.11                    |
| 09 51 33 13-0004 |     |     | <b>Aluminum, Acoustical Snap-In Metal Ceiling Panels</b> (09 51 33 13)  |                           |                         |
| 09 51 33 13-0005 | SF  |     | 24" x 24", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                          | 17.34                     | 1.27                    |
| 09 51 33 13-0006 | SF  |     | 24" x 24", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                 | 29.43                     | 1.27                    |
| 09 51 33 13-0007 | SF  |     | 24" x 24", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                | 57.62                     | 1.27                    |
| 09 51 33 13-0008 | SF  |     | 24" x 24", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                         | 26.09                     | 1.27                    |
| 09 51 33 13-0009 | SF  |     | 24" x 24", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                            | 18.31                     | 1.27                    |
| 09 51 33 13-0010 | SF  |     | 24" x 24", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                   | 28.68                     | 1.27                    |
| 09 51 33 13-0011 | SF  |     | 24" x 24", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                  | 57.19                     | 1.27                    |
| 09 51 33 13-0012 | SF  |     | 24" x 24", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                           | 25.87                     | 1.27                    |
| 09 51 33 13-0013 | SF  |     | 30" x 30", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                          | 23.60                     | 1.27                    |
| 09 51 33 13-0014 | SF  |     | 30" x 30", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                 | 31.05                     | 1.27                    |
| 09 51 33 13-0015 | SF  |     | 30" x 30", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                | 63.56                     | 1.27                    |
| 09 51 33 13-0016 | SF  |     | 30" x 30", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                         | 30.73                     | 1.27                    |
| 09 51 33 13-0017 | SF  |     | 30" x 30", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                            | 25.01                     | 1.27                    |
| 09 51 33 13-0018 | SF  |     | 30" x 30", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                   | 31.81                     | 1.27                    |
| 09 51 33 13-0019 | SF  |     | 30" x 30", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                  | 65.72                     | 1.27                    |
| 09 51 33 13-0020 | SF  |     | 30" x 30", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                           | 31.49                     | 1.27                    |
| 09 51 33 13-0021 | SF  |     | 12" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                          | 21.33                     | 1.27                    |
| 09 51 33 13-0022 | SF  |     | 12" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                 | 34.94                     | 1.27                    |
| 09 51 33 13-0023 | SF  |     | 12" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                | 62.16                     | 1.27                    |
| 09 51 33 13-0024 | SF  |     | 12" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                         | 29.97                     | 1.27                    |
| 09 51 33 13-0025 | SF  |     | 12" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                            | 22.95                     | 1.27                    |
| 09 51 33 13-0026 | SF  |     | 12" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                   | 35.37                     | 1.27                    |
| 09 51 33 13-0027 | SF  |     | 12" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                  | 64.43                     | 1.27                    |
| 09 51 33 13-0028 | SF  |     | 12" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                           | 30.95                     | 1.27                    |
| 09 51 33 13-0029 | SF  |     | 24" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                          | 16.88                     | 1.27                    |
| 09 51 33 13-0030 | SF  |     | 24" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                 | 25.96                     | 1.27                    |
| 09 51 33 13-0031 | SF  |     | 24" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                | 54.04                     | 1.27                    |
| 09 51 33 13-0032 | SF  |     | 24" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                         | 24.66                     | 1.27                    |
| 09 51 33 13-0033 | SF  |     | 24" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                            | 17.96                     | 1.27                    |
| 09 51 33 13-0034 | SF  |     | 24" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                   | 25.74                     | 1.27                    |
| 09 51 33 13-0035 | SF  |     | 24" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                  | 54.15                     | 1.27                    |
| 09 51 33 13-0036 | SF  |     | 24" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....                           | 24.66                     | 1.27                    |
| 09 51 33 23      |     |     | <b>Acoustical Lay-in Metal Pan Ceilings</b> (09 51 33)  |                           |                         |
| 09 51 33 23-0001 |     |     | <b>Acoustical Lay-In Metal Pan Ceilings</b> (09 51 33 23)   |                           |                         |
| 09 51 33 23-0002 |     |     | <b>Aluminum, Acoustical Lay-In Metal Ceiling Panels</b> (09 51 33 23-0001)  |                           |                         |
| 09 51 33 23-0003 | SF  |     | 24" x 24", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....   | 18.10                     | 0.96                    |
| 09 51 33 23-0004 | SF  |     | 24" x 24", Unperforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....  | 20.53                     | 0.96                    |
| 09 51 33 23-0005 | SF  |     | 24" x 24", Unperforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....   | 30.25                     | 0.96                    |
| 09 51 33 23-0006 | SF  |     | 24" x 24", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....   | 25.66                     | 0.96                    |



|  |  |                            |              |
|--|--|----------------------------|--------------|
|  |  | <b>Finishes</b>            | <b>09</b>    |
|  |  | <b>Ceilings</b>            | <b>09 50</b> |
|  |  | <b>Acoustical Ceilings</b> | <b>09 51</b> |

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |       |      |
|------------------|----|--|-------|------|
| 09 51 33 23-0007 | SF | 24" x 24", Perforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)  | 27.55 | 0.96 |
| 09 51 33 23-0008 | SF | 24" x 24", Perforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™) | 43.48 | 0.96 |
| 09 51 33 23-0009 | SF | 30" x 30", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™) | 27.13 | 0.96 |
| 09 51 33 23-0010 | SF | 30" x 30", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)   | 33.70 | 0.96 |
| 09 51 33 23-0011 | SF | 48" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™) | 27.28 | 0.96 |
| 09 51 33 23-0012 | SF | 48" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)   | 33.90 | 0.96 |
| 09 51 33 23-0013 | SF | 12" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™) | 27.42 | 0.96 |
| 09 51 33 23-0014 | SF | 12" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)   | 33.76 | 0.96 |
| 09 51 33 23-0015 | SF | 24" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™) | 27.42 | 0.96 |
| 09 51 33 23-0016 | SF | 24" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)   | 34.03 | 0.96 |

**09 51 33 23-0017 Steel, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)**

|                  |    |   |       |      |
|------------------|----|---|-------|------|
| 09 51 33 23-0018 | SF | 24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)           | 23.42 | 0.96 |
| 09 51 33 23-0019 | SF | 24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)  | 27.95 | 0.96 |
| 09 51 33 23-0020 | SF | 24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®) | 30.00 | 0.96 |
| 09 51 33 23-0021 | SF | 24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)             | 28.17 | 0.96 |
| 09 51 33 23-0022 | SF | 24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)    | 28.92 | 0.96 |
| 09 51 33 23-0023 | SF | 24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)   | 30.65 | 0.96 |

**09 51 33 33 Acoustical Tegular Lay-in Metal Pan Ceilings (09 51 33)**

**09 51 33 33-0001 Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33)**

**09 51 33 33-0002 Steel, Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33-0001)**

|                  |    |   |       |      |
|------------------|----|---|-------|------|
| 09 51 33 33-0003 | SF | 24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)           | 17.04 | 0.96 |
| 09 51 33 33-0004 | SF | 24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)  | 19.20 | 0.96 |
| 09 51 33 33-0005 | SF | 24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™) | 27.20 | 0.96 |
| 09 51 33 33-0006 | SF | 24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)             | 19.42 | 0.96 |
| 09 51 33 33-0007 | SF | 24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)    | 22.01 | 0.96 |
| 09 51 33 33-0008 | SF | 24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)   | 29.68 | 0.96 |

**09 53 Acoustical Ceiling Suspension Assemblies (09 50)**

**09 53 23 Metal Acoustical Ceiling Suspension Assemblies (09 53)**

**09 53 23 00-0001 Ceiling Suspension Systems (09 53 23)**

Note: Hot-dipped galvanized steel. Includes single 8 gauge wire hangers (between 3' To 4') attached from wood deck or wood members above to main members 4' on center. Includes all main tees, cross tees, wall angle, wall anchors, connector clips, hold down clips, double faced tape (where required). All above shall be mechanically installed by minimum 2-1/4" x 3/8" wedge anchors. Excludes chain supports for lights.

|                  |    |  |       |      |
|------------------|----|--|-------|------|
| 09 53 23 00-0002 | SF | 1' x 1' Grid, Concealed, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System | 5.13  | 0.63 |
|                  |    | Note: Excludes ceiling tile.   |       |      |
|                  |    | For Fastening To Concrete, Add   | 1.50  |      |
|                  |    | For Fastening To Steel, Add  | 1.66  |      |
|                  |    | For Vertical Application, Add  | 2.42  |      |
|                  |    | For Individual Room Quantities <495, Add   | 0.53  |      |
|                  |    | Note: For use with projects >500 SF  |       |      |
|                  |    | For Up To 50, Add  | 1.87  |      |
|                  |    | For >50 To 200, Add  | 1.07  |      |
|                  |    | For >200 To 500, Add   | 0.39  |      |
|                  |    | For >2,500 To 4,000, Deduct  | -0.12 |      |
|                  |    | For >4,000 To 5,000, Deduct  | -0.21 |      |
|                  |    | For >5,000, Deduct   | -0.30 |      |
|                  |    | For Ceilings >10' High, Add  | 0.21  |      |

**09 Finishes****09 50 Ceilings****09 53 Acoustical Ceiling Suspension Assemblies**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 09 53 23 00-0003 | SF  |     | 1' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....           | 4.13                   | 0.63                 |
|                  |     |     | <i>For UL Listed (Fire Guard), Add</i>   | 0.27                   |                      |
|                  |     |     | <i>For 1-1/2" Wide Faced Grid, Add</i>   | 0.51                   |                      |
|                  |     |     | <i>For Fastening To Concrete, Add</i>  | 1.45                   |                      |
|                  |     |     | <i>For Fastening To Steel, Add</i>   | 1.61                   |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 2.02                   |                      |
|                  |     |     | <i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>                    | 2.50                   |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.44                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Aluminum T-Bar System, Add</i>  | 0.82                   |                      |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.54                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.88                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.32                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.09                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.17                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.25                  |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.17                   |                      |
| 09 53 23 00-0004 | SF  |     | 2' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....           | 3.45                   | 0.63                 |
|                  |     |     | <i>For UL Listed (Fire Guard), Add</i>   | 0.20                   |                      |
|                  |     |     | <i>For 1-1/2" Wide Faced Grid, Add</i>   | 0.37                   |                      |
|                  |     |     | <i>For Fastening To Concrete, Add</i>  | 1.43                   |                      |
|                  |     |     | <i>For Fastening To Steel, Add</i>   | 1.59                   |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 1.86                   |                      |
|                  |     |     | <i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>                    | 2.50                   |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.38                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Aluminum T-Bar System, Add</i>  | 0.60                   |                      |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.37                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.77                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.28                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.08                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.15                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.21                  |                      |
|                  |     |     | <i>For Black Grid, Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.16                   |                      |
|                  |     |     | <i>For Concealed Spline Grid, Add</i>  | 0.54                   |                      |
| 09 53 23 00-0005 | SF  |     | 2' x 4' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....           | 2.86                   | 0.63                 |
|                  |     |     | <i>For UL Listed (Fire Guard), Add</i>   | 0.16                   |                      |
|                  |     |     | <i>For 1-1/2" Wide Faced Grid, Add</i>   | 0.30                   |                      |
|                  |     |     | <i>For Fastening To Concrete, Add</i>  | 1.40                   |                      |
|                  |     |     | <i>For Fastening To Steel, Add</i>   | 1.56                   |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 1.78                   |                      |
|                  |     |     | <i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>                    | 2.50                   |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.32                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Aluminum T-Bar System, Add</i>  | 0.49                   |                      |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.14                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.64                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.23                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.07                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.12                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.18                  |                      |
|                  |     |     | <i>For Black Grid, Add</i>   | 0.14                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.13                   |                      |
|                  |     |     | <i>For Concealed Spline Grid, Add</i>  | 0.45                   |                      |
| 09 53 23 00-0006 | SF  |     | 1'-8" To 2' x 5' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System ..... | 2.52                   | 0.63                 |
|                  |     |     | <i>For UL Listed (Fire Guard), Add</i>   | 0.15                   |                      |
|                  |     |     | <i>For 1-1/2" Wide Faced Grid, Add</i>   | 0.28                   |                      |
|                  |     |     | <i>For Fastening To Concrete, Add</i>  | 1.37                   |                      |
|                  |     |     | <i>For Fastening To Steel, Add</i>   | 1.53                   |                      |
|                  |     |     | <i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>                    | 2.50                   |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.28                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Aluminum T-Bar System, Add</i>  | 0.45                   |                      |
|                  |     |     | <i>For Up To 50, Add</i>   | 0.99                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.56                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.20                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.06                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.11                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.15                  |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.11                   |                      |
| 09 53 23 00-0007 | SF  |     | 2' x 2' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....            | 3.73                   | 0.63                 |
|                  |     |     | <i>For UL Listed (Fire Guard), Add</i>   | 0.24                   |                      |
|                  |     |     | <i>For Fastening To Concrete, Add</i>  | 1.43                   |                      |
|                  |     |     | <i>For Fastening To Steel, Add</i>   | 1.59                   |                      |
|                  |     |     | <i>For Vertical Application, Add</i>   | 1.86                   |                      |
|                  |     |     | <i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>                    | 2.50                   |                      |
|                  |     |     | <i>For Individual Room Quantities &lt;495, Add</i>   | 0.40                   |                      |
|                  |     |     | <i>Note: For use with projects &gt;500 SF</i>  |                        |                      |
|                  |     |     | <i>For Up To 50, Add</i>   | 1.41                   |                      |
|                  |     |     | <i>For &gt;50 To 200, Add</i>  | 0.80                   |                      |
|                  |     |     | <i>For &gt;200 To 500, Add</i>   | 0.29                   |                      |
|                  |     |     | <i>For &gt;2,500 To 4,000, Deduct</i>  | -0.09                  |                      |
|                  |     |     | <i>For &gt;4,000 To 5,000, Deduct</i>  | -0.15                  |                      |
|                  |     |     | <i>For &gt;5,000, Deduct</i>   | -0.22                  |                      |
|                  |     |     | <i>For Black Grid, Add</i>   | 0.20                   |                      |
|                  |     |     | <i>For Ceilings &gt;10' High, Add</i>  | 0.16                   |                      |



|  |           |           |
|--|-----------|-----------|
| <b>Finishes</b>                          | <b>09</b> | <b>09</b> |
| Ceilings                                 | 09 50     |           |
| Acoustical Ceiling Suspension Assemblies | 09 53     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 09 53 23 00-0008 SF 2' x 4' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System .....                         | 3.08                      | 0.63                    |
| For UL Listed (Fire Guard), Add  | 0.20                      |                         |
| For Fastening To Concrete, Add   | 1.40                      |                         |
| For Fastening To Steel, Add  | 1.56                      |                         |
| For Vertical Application, Add  | 1.78                      |                         |
| For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add   | 2.50                      |                         |
| For Individual Room Quantities <495, Add   | 0.33                      |                         |
| Note: For use with projects >500 SF  |                           |                         |
| For Up To 50, Add  | 1.17                      |                         |
| For >50 To 200, Add  | 0.66                      |                         |
| For >200 To 500, Add   | 0.24                      |                         |
| For >2,500 To 4,000, Deduct  | -0.07                     |                         |
| For >4,000 To 5,000, Deduct  | -0.13                     |                         |
| For >5,000, Deduct   | -0.19                     |                         |
| For Black Grid, Add  | 0.16                      |                         |
| For Ceilings >10' High, Add  | 0.13                      |                         |
| <b>09 53 23 00-0009 Ceiling Suspension System Accessories (09 53 23)</b>   |                           |                         |
| 09 53 23 00-0010 LF Pencil Rod Support For Suspended Ceiling with Accessories .....  | 1.53                      |                         |
| 09 53 23 00-0011 LF 1" x 1/8" Flat Bar Bracing For Suspended Ceiling .....   | 3.71                      | 1.78                    |
| For 304 Stainless Steel, Add   | 2.96                      |                         |
| For 316 Stainless Steel, Add   | 3.33                      |                         |
| For Aluminum, Add  | 0.19                      |                         |
| For Galvanized Steel, Add  | 0.64                      |                         |
| 09 53 23 00-0012 LF 1" x 3/16" Flat Bar Bracing For Suspended Ceiling .....  | 5.29                      | 1.90                    |
| For 304 Stainless Steel, Add   | 4.50                      |                         |
| For 316 Stainless Steel, Add   | 5.06                      |                         |
| For Aluminum, Add  | 0.28                      |                         |
| For Galvanized Steel, Add  | 0.98                      |                         |
| 09 53 23 00-0013 LF 1-1/2" x 1/4" Flat Bar Bracing For Suspended Ceiling .....   | 7.35                      | 2.03                    |
| For 304 Stainless Steel, Add   | 9.01                      |                         |
| For 316 Stainless Steel, Add   | 10.11                     |                         |
| For Aluminum, Add  | 0.57                      |                         |
| For Galvanized Steel, Add  | 1.96                      |                         |
| 09 53 23 00-0014 EA 2', Exposed 15/16" Hot-dipped Galvanized Steel, Suspended Ceiling Cross Tee .....                              | 7.96                      | 0.37                    |
| Note: Can be used to convert an existing 2' x 4' suspension system to a 2' x 2' system or to replace an individual component.      |                           |                         |
| 09 53 23 00-0015 EA Lateral Support For Suspended Ceiling Channel, Installed 12'-0" On Center Maximum .....                        | 34.55                     | 9.48                    |
| Note: Includes vertical center strut and four 12 gauge diagonal wires.   |                           |                         |
| 09 53 23 00-0016 EA Up To 30" Compression Posts, Telescopic, With Splay Wires, Attached To Structure For Suspended Ceiling .....   | 80.32                     | 25.82                   |
| 09 53 23 00-0017 EA >30" To 48" Compression Posts, Telescopic, With Splay Wires, Attached To Structure For Suspended Ceiling ..... | 83.15                     | 26.31                   |
| 09 53 23 00-0018 EA >48" To 84" Compression Posts, Telescopic, With Splay Wires, Attached To Structure For Suspended Ceiling ..... | 92.67                     | 26.31                   |
| <b>09 53 23 00-0019 Removal And Reinstallation Of Acoustical Ceiling Suspension Assembly (09 53 23)</b>                            |                           |                         |
| Note: 2'x2' Or 2'x4'. Includes storage and cleaning.   |                           |                         |
| 09 53 23 00-0020 SF Removal And Reinstallation Of 2' x 2' Or 2' x 4' Acoustical Ceiling Tile And Grid Assembly .....               | 3.50                      |                         |
| Note: Suspension system tie wire, wall angles and bracing to remain in place.  |                           |                         |
| For Up To 50, Add  | 1.93                      |                         |
| For >50 To 200, Add  | 1.05                      |                         |
| For >200 To 500, Add   | 0.35                      |                         |
| For >2,500 To 4,000, Deduct  | -0.09                     |                         |
| For >4,000 To 5,000, Deduct  | -0.18                     |                         |
| For >5,000, Deduct   | -0.26                     |                         |
| For Ceilings >10' High, Add  | 0.26                      |                         |
| 09 53 23 00-0021 SF Removal And Reinstallation Of Grid System Assembly .....   | 1.53                      |                         |
| Note: Suspension system tie wire, wall angles and bracing to remain in place. Excludes ceiling tiles.                              |                           |                         |
| For Up To 50, Add  | 0.84                      |                         |
| For >50 To 200, Add  | 0.46                      |                         |
| For >200 To 500, Add   | 0.15                      |                         |
| For >2,500 To 4,000, Deduct  | -0.04                     |                         |
| For >4,000 To 5,000, Deduct  | -0.08                     |                         |
| For >5,000, Deduct   | -0.11                     |                         |
| For Ceilings >10' High, Add  | 0.11                      |                         |
| <b>09 54 Specialty Ceilings (09 50)</b>  |                           |                         |
| <b>09 54 16 Luminous Ceilings (09 54)</b>  |                           |                         |
| <b>09 54 16 00-0001 Translucent Ceiling Panels (09 54 16)</b>  |                           |                         |
| 09 54 16 00-0002 SF 2' x 2' x 0.013" Thick, Rigid Vinyl Plastic, Translucent Ceiling Panel .....                                   | 3.31                      | 0.63                    |
| For Ceilings >10' High, Add  | 0.11                      |                         |
| For >100 To 200, Deduct  | -0.13                     |                         |
| For >200 To 300, Deduct  | -0.35                     |                         |
| For >300, Deduct   | -0.61                     |                         |
| <b>09 54 23 Linear Metal Ceilings (09 54)</b>  |                           |                         |
| <b>09 54 23 00-0001 Linear Ceiling Systems (09 54 23)</b>  |                           |                         |

**09 Finishes****09 50 Ceilings****09 54 Specialty Ceilings**

| MINOR            |     | TOTAL DIRECT  |           | DEMOLITION |           |
|------------------|-----|---|-----------|------------|-----------|
| CSI              | UOM | DESCRIPTION   | UNIT COST | UNIT COST  | UNIT COST |
| 09 54 23 00-0002 |     | <b>0.032" Aluminum, Linear Ceiling Systems</b> <small>(09 54 23 00-0001)</small>  |           |            |           |
|                  |     | Note: For flat ceilings. Includes round or box style panels with KYNAR 500® or HYLAR 5000® PVDF finish. Includes ceiling suspension system and flush or recessed filler strips. |           |            |           |
| 09 54 23 00-0003 | SF  | 4" Panel Width, 0.032" Aluminum, Linear Ceiling System .....  | 23.35     |            | 2.75      |
|                  |     | For Up To 50, Add   | 6.13      |            |           |
|                  |     | For >50 To 200, Add   | 3.65      |            |           |
|                  |     | For >200 To 500, Add  | 1.50      |            |           |
|                  |     | For >2,500, Deduct  | -1.17     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.49      |            |           |
|                  |     | For Linear Ceiling Systems Without Filler Strips, Deduct  | -4.15     |            |           |
|                  |     | For Curved Ceilings, Add  | 1.54      |            |           |
| 09 54 23 00-0004 | SF  | 8" Panel Width, 0.032" Aluminum, Linear Ceiling System .....  | 18.91     |            | 2.75      |
|                  |     | For Up To 50, Add   | 5.41      |            |           |
|                  |     | For >50 To 200, Add   | 3.18      |            |           |
|                  |     | For >200 To 500, Add  | 1.27      |            |           |
|                  |     | For >2,500, Deduct  | -0.95     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.48      |            |           |
|                  |     | For Linear Ceiling Systems Without Filler Strips, Deduct  | -2.08     |            |           |
|                  |     | For Curved Ceilings, Add  | 1.51      |            |           |
| 09 54 23 00-0005 | SF  | 12" Panel Width, 0.032" Aluminum, Linear Ceiling System .....   | 17.19     |            | 2.75      |
|                  |     | For Up To 50, Add   | 5.10      |            |           |
|                  |     | For >50 To 200, Add   | 2.98      |            |           |
|                  |     | For >200 To 500, Add  | 1.18      |            |           |
|                  |     | For >2,500, Deduct  | -0.86     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.47      |            |           |
|                  |     | For Linear Ceiling Systems Without Filler Strips, Deduct  | -1.37     |            |           |
|                  |     | For Curved Ceilings, Add  | 1.48      |            |           |
| 09 54 23 00-0006 |     | <b>Tin Ceilings</b> <small>(09 54 23)</small>   |           |            |           |
| 09 54 23 00-0007 | SF  | 2' x 2' Tin Ceiling Embossed Panels .....   | 22.52     |            | 4.25      |
|                  |     | For Up To 50, Add   | 5.43      |            |           |
|                  |     | For >50 To 200, Add   | 3.28      |            |           |
|                  |     | For >200 To 500, Add  | 1.38      |            |           |
|                  |     | For >2,500, Deduct  | -1.13     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.38      |            |           |
| 09 54 23 00-0008 | SF  | 12" x 12" Tin Ceiling Embossed Plates .....   | 33.13     |            | 2.75      |
|                  |     | For Up To 50, Add   | 7.13      |            |           |
|                  |     | For >50 To 200, Add   | 4.40      |            |           |
|                  |     | For >200 To 500, Add  | 1.93      |            |           |
|                  |     | For >2,500, Deduct  | -1.66     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.41      |            |           |
| 09 54 23 00-0009 | SF  | 12" x 24" Tin Ceiling Embossed Plates .....   | 24.31     |            | 2.75      |
|                  |     | For Up To 50, Add   | 5.81      |            |           |
|                  |     | For >50 To 200, Add   | 3.51      |            |           |
|                  |     | For >200 To 500, Add  | 1.49      |            |           |
|                  |     | For >2,500, Deduct  | -1.22     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.41      |            |           |
| 09 54 23 00-0010 | SF  | 24" x 24" Tin Ceiling Embossed Plates .....   | 22.33     |            | 2.75      |
|                  |     | For Up To 50, Add   | 5.35      |            |           |
|                  |     | For >50 To 200, Add   | 3.23      |            |           |
|                  |     | For >200 To 500, Add  | 1.37      |            |           |
|                  |     | For >2,500, Deduct  | -1.12     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.37      |            |           |
| 09 54 23 00-0011 | SF  | 24" x 48" Tin Ceiling Embossed Plates .....   | 19.48     |            | 2.05      |
|                  |     | For Up To 50, Add   | 4.67      |            |           |
|                  |     | For >50 To 200, Add   | 2.82      |            |           |
|                  |     | For >200 To 500, Add  | 1.19      |            |           |
|                  |     | For >2,500, Deduct  | -0.97     |            |           |
|                  |     | For Ceilings >10' High, Add   | 0.33      |            |           |
| 09 54 23 00-0012 | LF  | 3" Or 4" Wide Embossed Molding .....  | 15.67     |            | 4.12      |
| 09 54 23 00-0013 | LF  | 6" Wide Embossed Molding .....  | 19.51     |            | 4.80      |
| 09 54 23 00-0014 | LF  | 12" Wide Embossed Molding .....   | 26.11     |            | 5.63      |
| 09 54 23 00-0015 | EA  | 3", 4" Or 6" Wide Embossed Cross, Tee Or Ell .....  | 45.59     |            | 13.03     |
| 09 54 23 00-0016 | EA  | 12" Wide Embossed Cross, Tee Or Ell .....   | 62.80     |            | 15.23     |
| <b>09 57</b>     |     | <b>Special Function Ceilings</b> <small>(09 50)</small>   |           |            |           |
| <b>09 57 63</b>  |     | <b>High Impact Ceilings</b> <small>(09 57)</small>  |           |            |           |
| 09 57 63 00-0001 |     | <b>High Impact Ceilings</b> <small>(09 57 63)</small>   |           |            |           |
| 09 57 63 00-0002 | SF  | Polyvinyl Chloride Face High Impact Ceiling Panels .....  | 14.85     |            | 1.27      |
|                  |     | For Ceilings >10' High, Add   | 0.15      |            |           |
| 09 57 63 00-0003 | EA  | High Impact Clips .....   | 6.51      |            | 1.02      |
|                  |     | For Ceilings >10' High, Add   | 0.24      |            |           |
| <b>09 80</b>     |     | <b>Acoustic Treatment</b> <small>(09)</small>   |           |            |           |
| <b>09 81</b>     |     | <b>Acoustic Insulation</b> <small>(09 80)</small>   |           |            |           |
| <b>09 81 16</b>  |     | <b>Acoustic Blanket Insulation</b> <small>(09 81)</small>   |           |            |           |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Finishes</b>     | <b>09</b> | <b>09</b> |
| Acoustic Treatment  | 09 80     |           |
| Acoustic Insulation | 09 81     |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |  |      |      |
|------------------|---|--|------|------|
| 09 81 16 00-0001 | <b>Sound Attenuation Fire Blankets (SAFB)</b> (09 81 16)                          |  |      |      |
|                  | Note: Mineral wool  |  |      |      |
| 09 81 16 00-0002 | <b>2.5 PCF Density, Sound Attenuation Fire Blankets (SAFB)</b> (09 81 16 00-0001) |  |      |      |
| 09 81 16 00-0003 | SF  | 1-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) ..... | 2.16 | 0.38 |
| 09 81 16 00-0004 | SF  | 2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....     | 2.32 | 0.38 |
| 09 81 16 00-0005 | SF  | 2-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) ..... | 2.23 | 0.38 |
| 09 81 16 00-0006 | SF  | 3" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....     | 2.72 | 0.38 |
| 09 81 16 00-0007 | SF  | 3-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) ..... | 2.50 | 0.38 |
| 09 81 16 00-0008 | SF  | 4" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....     | 2.64 | 0.38 |
| 09 81 16 00-0009 | SF  | 5" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....     | 2.84 | 0.38 |
| 09 81 16 00-0010 | SF  | 6" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....     | 3.06 | 0.38 |

|                  |   |  |      |      |
|------------------|---|--|------|------|
| 09 81 16 00-0011 | <b>4 PCF Density, Sound Attenuation Fire Blankets (SAFB)</b> (09 81 16 00-0001) |  |      |      |
| 09 81 16 00-0012 | SF  | 1" Thick, 4 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) ..... | 2.12 | 0.38 |

|                  |  |  |      |      |
|------------------|--|--|------|------|
| 09 81 16 00-0013 | <b>Sound Attenuation Batts</b> (09 81 16)  |  |      |      |
|                  | Note: NoiseReducer® by Certainteed, Quitezone® by Owens Corning, Sound-Shield® by Johns Mansville. |  |      |      |
| 09 81 16 00-0014 | SF   | 2-1/2" Thick, Unfaced Sound Attenuation Batt.....      | 1.23 | 0.51 |
| 09 81 16 00-0015 | SF   | 3-1/2" Thick, Unfaced Sound Attenuation Batt.....      | 1.29 | 0.51 |
| 09 81 16 00-0016 | SF   | 3-1/2" Thick, Kraft Faced Sound Attenuation Batt ..... | 1.49 | 0.51 |
| 09 81 16 00-0017 | SF   | 5-1/2" Thick, Unfaced Sound Attenuation Batt.....      | 1.66 | 0.51 |
| 09 81 16 00-0018 | SF   | 5-1/2" Thick, Kraft Faced Sound Attenuation Batt ..... | 1.71 | 0.51 |
| 09 81 16 00-0019 | SF   | 6-1/4" Thick, Unfaced Sound Attenuation Batt.....      | 1.70 | 0.51 |
| 09 81 16 00-0020 | SF   | 6-1/4" Thick, Kraft Faced Sound Attenuation Batt ..... | 1.76 | 0.51 |

**09 84 Acoustic Room Components** (09 80)

**09 84 13 Fixed Sound-Absorptive Panels** (09 84)

|                  |   |  |       |      |
|------------------|---|--|-------|------|
| 09 84 13 00-0001 | <b>Sound Absorbing Panels And Attenuation Blankets</b> (09 84 13)   |  |       |      |
|                  | Note: No backs, 3" thick modular, ceiling or wall hung back. Excludes ceiling suspension systems and wall furring system. See CSI section 09 53 23 00-0000 for suspended ceiling support. |  |       |      |
| 09 84 13 00-0002 | SF  | 3" Thick Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler ..... | 12.89 | 2.54 |
| 09 84 13 00-0003 | SF  | 1" Thick Fiberglass Sound Absorbing Panels With Glass Cloth Face For Walls .....                         | 18.92 | 2.54 |

|                  |   |   |       |      |
|------------------|---|---|-------|------|
| 09 84 13 00-0004 | <b>Sound Absorbing Acoustical Wall Panel System</b> (09 84 13)  |   |       |      |
| 09 84 13 00-0005 | <b>Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam)</b> (09 84 13 00-0004) |   |       |      |
|                  | Note: Includes molding and mounting hardware for flush mount. All panels are 3/4" thick.                |   |       |      |
| 09 84 13 00-0006 | SF  | Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Tek-Wall)..... | 20.20 | 2.86 |
| 09 84 13 00-0007 | SF  | Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Adorn) .....   | 24.44 | 2.86 |

|                  |   |  |       |  |
|------------------|---|--|-------|--|
| 09 84 13 00-0008 | <b>Sound Absorbing Panel, Eggcrate Style</b> (09 84 13) |  |       |  |
|                  | Note: Ceiling or wall hung back.                        |  |       |  |
| 09 84 13 00-0009 | SF  | 2" Thick Polyurethane Sound Wave (Eggcrate Style)..... | 11.82 |  |
|                  |   | For Pyramid Style, Add                                 | 1.18  |  |
| 09 84 13 00-0010 | SF  | 3" Thick Polyurethane Sound Wave (Eggcrate Style)..... | 15.43 |  |
|                  |   | For Pyramid Style, Add                                 | 1.18  |  |
| 09 84 13 00-0011 | SF  | 4" Thick Polyurethane Sound Wave (Eggcrate Style)..... | 19.90 |  |
|                  |   | For Pyramid Style, Add                                 | 1.18  |  |
| 09 84 13 00-0012 | SF  | 2" Thick Melamine Sound Wave (Eggcrate Style) .....    | 15.04 |  |
|                  |   | For Eggcrate Style With Hypalon Coating, Add           | 1.97  |  |
|                  |   | For Pyramid Style, Add                                 | 2.05  |  |
|                  |   | For Pyramid Style With Hypalon Coating, Add            | 4.02  |  |
| 09 84 13 00-0013 | SF  | 3" Thick Melamine Sound Wave (Eggcrate Style) .....    | 28.89 |  |
|                  |   | For Eggcrate Style With Hypalon Coating, Add           | 1.97  |  |
|                  |   | For Pyramid Style, Add                                 | 0.42  |  |
|                  |   | For Pyramid Style With Hypalon Coating, Add            | 2.40  |  |
| 09 84 13 00-0014 | SF  | 4" Thick Melamine Sound Wave (Eggcrate Style) .....    | 36.75 |  |
|                  |   | For Eggcrate Style With Hypalon Coating, Add           | 1.97  |  |
|                  |   | For Pyramid Style, Add                                 | 0.42  |  |
|                  |   | For Pyramid Style With Hypalon Coating, Add            | 2.40  |  |

|                  |  |   |      |      |
|------------------|--|---|------|------|
| 09 84 13 00-0015 | <b>Sound Deadening Fiberboard</b> (09 84 13) |   |      |      |
| 09 84 13 00-0016 | SF   | 1/2" Sound Deadening Fiberboard .....           | 1.75 | 0.63 |
|                  |  | For Horizontal Installation Up To 10' High, Add | 0.39 |      |
|                  |  | For Horizontal Installation >10' High, Add      | 0.58 |      |
|                  |  | For Walls >10' High, Add                        | 0.09 |      |
|                  |  | For Up To 128, Add                              | 0.58 |      |
|                  |  | For >128 To 320, Add                            | 0.35 |      |



|           |           |                          |
|-----------|-----------|--------------------------|
| <b>09</b> | <b>09</b> | <b>Finishes</b>          |
|           | 09 80     | Acoustic Treatment       |
|           | 09 84     | Acoustic Room Components |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**END OF SECTION 09**



|  |                 |
|--|-----------------|
| <b>Specialties</b>                                     | <b>10</b>       |
| <b>Operation and Maintenance of Specialties</b>        | <b>10 01</b>    |
| <b>Operation and Maintenance of Safety Specialties</b> | <b>10 01 40</b> |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 10 Specialties

### 10 01 Operation and Maintenance of Specialties <sup>(10)</sup>

#### 10 01 40 Operation and Maintenance of Safety Specialties <sup>(10 01)</sup>

|                  |    |  |        |  |
|------------------|----|--|--------|--|
| 10 01 40 00-0001 | EA | Recharge Existing Portable Fire Extinguishers <sup>(10 01 40)</sup><br>Note: Includes removal, filling, testing, certification and reinstallation. |        |  |
| 10 01 40 00-0002 | EA | Recharge Carbon Dioxide, Class BC Portable Fire Extinguishers <sup>(10 01 40 00-0001)</sup>  |        |  |
| 10 01 40 00-0003 | EA | Recharge 2.5 LB Carbon Dioxide Portable Fire Extinguisher .....  | 17.83  |  |
| 10 01 40 00-0004 | EA | Recharge 5 LB Carbon Dioxide Portable Fire Extinguisher .....  | 19.81  |  |
| 10 01 40 00-0005 | EA | Recharge 10 LB Carbon Dioxide Portable Fire Extinguisher .....   | 20.60  |  |
| 10 01 40 00-0006 | EA | Recharge 15 LB Carbon Dioxide Portable Fire Extinguisher .....   | 23.31  |  |
| 10 01 40 00-0007 | EA | Recharge 20 LB Carbon Dioxide Portable Fire Extinguisher .....   | 26.94  |  |
| 10 01 40 00-0008 | EA | Recharge Dry Chemical, Class ABC Portable Fire Extinguishers <sup>(10 01 40 00-0001)</sup>   |        |  |
| 10 01 40 00-0009 | EA | Recharge 2.5 LB Dry Chemical Portable Fire Extinguisher .....  | 21.50  |  |
| 10 01 40 00-0010 | EA | Recharge 5 LB Dry Chemical Portable Fire Extinguisher .....  | 26.03  |  |
| 10 01 40 00-0011 | EA | Recharge 10 LB Dry Chemical Portable Fire Extinguisher .....   | 36.78  |  |
| 10 01 40 00-0012 | EA | Recharge 20 LB Dry Chemical Portable Fire Extinguisher .....   | 58.06  |  |
| 10 01 40 00-0013 | EA | Recharge Other Portable Fire Extinguishers <sup>(10 01 40 00-0001)</sup>   |        |  |
| 10 01 40 00-0014 | EA | Recharge 2.5 Gallon Pressurized Water Portable Fire Extinguisher .....   | 21.28  |  |
| 10 01 40 00-0015 | EA | Recharge 1.6 Gallon Wet Chemical Class K Fire Extinguisher.....  | 151.65 |  |
| 10 01 40 00-0016 | EA | Recharge 2.5 Gallon Wet Chemical Class K Fire Extinguisher.....  | 212.32 |  |
| 10 01 40 00-0017 | EA | Recharge 30 LB Dry Powder Class D Portable Fire Extinguisher.....  | 87.41  |  |

### 10 40 Safety Specialties <sup>(10)</sup>

#### 10 41 Emergency Access And Information Cabinets <sup>(10 40)</sup>

##### 10 41 13 Fire Department Plan Cabinets <sup>(10 41)</sup>

##### 10 41 13 00-0001 Fire Department Plan Cabinets (Knox) <sup>(10 41 13)</sup>

|                  |    |   |          |       |
|------------------|----|---|----------|-------|
| 10 41 13 00-0002 | EA | 18" High x 14-1/2" Wide x 5" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300)..... | 1,703.28 | 41.28 |
|                  |    | <i>For Tamper Switch Connected To Existing Alarm System, Add</i>  | 40.00    |       |
|                  |    | <i>For Dual Locks, Add</i>  | 60.00    |       |
|                  |    | <i>For Back Key Hook Panel, Add</i>   | 59.74    |       |
|                  |    | <i>For Swing Key Hook Panel, Add</i>  | 158.74   |       |
|                  |    | <i>For Non-Locking Weather Housing, Add</i>   | 399.21   |       |
| 10 41 13 00-0003 | EA | 18" High x 14-1/2" Wide x 7" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300)..... | 1,805.86 | 41.28 |
|                  |    | <i>For Tamper Switch Connected To Existing Alarm System, Add</i>  | 40.00    |       |
|                  |    | <i>For Dual Locks, Add</i>  | 60.00    |       |
|                  |    | <i>For Back Key Hook Panel, Add</i>   | 59.74    |       |
|                  |    | <i>For Swing Key Hook Panel, Add</i>  | 158.74   |       |
|                  |    | <i>For Second Swing Key Hook Panel, Add</i>   | 125.74   |       |
|                  |    | <i>For Non-Locking Weather Housing, Add</i>   | 399.21   |       |

##### 10 41 16 Emergency Key Cabinets <sup>(10 41)</sup>

##### 10 41 16 00-0001 Emergency Key Cabinets (Knox) <sup>(10 41 16)</sup>

|                  |    |   |          |       |
|------------------|----|---|----------|-------|
| 10 41 16 00-0002 | EA | Elevator/Lobby, Deep Red Finish, Surface Mount, Fire Department Emergency Key Storage Box (Knox 1403).....                  | 851.81   | 41.28 |
|                  |    | <i>For Tamper Switch Connected To Existing Alarm System, Add</i>  | 40.00    |       |
| 10 41 16 00-0003 | EA | 5" High x 4" Wide x 3-3/4" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Box 3200).....    | 749.23   | 41.28 |
|                  |    | <i>For Lift-Off Door, Deduct</i>  | -40.00   |       |
|                  |    | <i>For Aluminum Or Dark Bronze Finish, Add</i>  | 10.00    |       |
|                  |    | <i>For Tamper Switch Connected To Existing Alarm System, Add</i>  | 40.00    |       |
|                  |    | <i>For Recess Mount, Add</i>  | 63.68    |       |
|                  |    | <i>For Cast-In-Place Concrete Recess Mounting, Add</i>  | 119.00   |       |
| 10 41 16 00-0004 | EA | 6" High x 6" Wide x 4-1/2" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4100) ..... | 1,000.56 | 41.28 |
|                  |    | <i>For Aluminum Or Dark Bronze Finish, Add</i>  | 10.00    |       |
|                  |    | <i>For Tamper Switch Connected To Existing Alarm System, Add</i>  | 40.00    |       |
|                  |    | <i>For Recess Mount, Add</i>  | 63.68    |       |
|                  |    | <i>For Dual Locks, Add</i>  | 60.00    |       |
|                  |    | <i>For Cast-In-Place Concrete Recess Mounting, Add</i>  | 130.00   |       |
| 10 41 16 00-0005 | EA | 7" High x 7" Wide x 5" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4400) .....     | 1,064.68 | 41.28 |
|                  |    | <i>For Aluminum Or Dark Bronze Finish, Add</i>  | 10.00    |       |
|                  |    | <i>For Tamper Switch Connected To Existing Alarm System, Add</i>  | 40.00    |       |
|                  |    | <i>For Recess Mount, Add</i>  | 63.68    |       |
|                  |    | <i>For Dual Locks, Add</i>  | 60.00    |       |
|                  |    | <i>For Cast-In-Place Concrete Recess Mounting, Add</i>  | 135.00   |       |

|           |              |  |
|-----------|--------------|--|
| <b>10</b> | <b>10</b>    | <b>Specialties</b>                               |
|           | <b>10 40</b> | <b>Safety Specialties</b>                        |
|           | <b>10 41</b> | <b>Emergency Access And Information Cabinets</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**10 44 Fire Protection Specialties** (10 40)

**10 44 13 Fire Protection Cabinets** (10 44)

|   |    |  |        |       |
|---|----|--|--------|-------|
| 10 44 13 00-0001  | EA | Fire Extinguisher Cabinets <small>(10 44 13)</small>                                       |        |       |
| 10 44 13 00-0002  | EA | Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0001)</small>                      |        |       |
| 10 44 13 00-0003  | EA | Steel Door And Trim, Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0002)</small> |        |       |
| Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |  |        |       |
| 10 44 13 00-0004  | EA | 9" x 18" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....         | 401.63 | 52.07 |
| 10 44 13 00-0005  | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....    | 408.06 | 52.07 |
| 10 44 13 00-0006  | EA | 10-1/2" x 24" x 6" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....        | 409.34 | 52.07 |
| 10 44 13 00-0007  | EA | 12" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....        | 449.22 | 52.07 |
| 10 44 13 00-0008  | EA | 16" x 32" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....        | 553.41 | 52.07 |
| 10 44 13 00-0009  | EA | 20" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....        | 567.56 | 52.07 |

**10 44 13 00-0010 Aluminum Door And Trim, Recessed Fire Extinguisher Cabinets** (10 44 13 00-0002)

|  |    |  |        |       |
|--|----|--|--------|-------|
| Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |  |        |       |
| 10 44 13 00-0011   | EA | 9" x 18" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....      | 415.51 | 52.07 |
| 10 44 13 00-0012   | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet..... | 421.90 | 52.07 |
| 10 44 13 00-0013   | EA | 10-1/2" x 24" x 6" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....     | 432.54 | 52.07 |
| 10 44 13 00-0014   | EA | 12" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....     | 450.64 | 52.07 |
| 10 44 13 00-0015   | EA | 16" x 32" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....     | 506.56 | 52.07 |
| 10 44 13 00-0016   | EA | 20" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....     | 523.60 | 52.07 |

**10 44 13 00-0017 Stainless Steel Door And Trim, Recessed Fire Extinguisher Cabinets** (10 44 13 00-0002)

|   |    |   |        |       |
|---|----|---|--------|-------|
| Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |   |        |       |
| 10 44 13 00-0018  | EA | 9" x 18" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....      | 552.11 | 52.07 |
| 10 44 13 00-0019  | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet..... | 565.26 | 52.07 |
| 10 44 13 00-0020  | EA | 10-1/2" x 24" x 6" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....     | 571.83 | 52.07 |
| 10 44 13 00-0021  | EA | 12" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....     | 616.75 | 52.07 |
| 10 44 13 00-0022  | EA | 16" x 32" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....     | 707.18 | 52.07 |
| 10 44 13 00-0023  | EA | 20" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....     | 734.56 | 52.07 |

**10 44 13 00-0024 Bronze Door And Trim, Recessed Fire Extinguisher Cabinets** (10 44 13 00-0002)

|  |    |  |          |       |
|--|----|--|----------|-------|
| Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |  |          |       |
| 10 44 13 00-0025   | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet..... | 1,613.76 | 52.07 |
| 10 44 13 00-0026   | EA | 10-1/2" x 24" x 6" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....     | 1,625.66 | 52.07 |
| 10 44 13 00-0027   | EA | 12" x 27" x 7-3/4" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....     | 1,868.32 | 52.07 |

**10 44 13 00-0028 Acrylic Bubble Door And Steel Trim, Recessed Fire Extinguisher Cabinets** (10 44 13 00-0002)

|   |    |  |        |       |
|---|----|--|--------|-------|
| Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub. |    |  |        |       |
| 10 44 13 00-0029  | EA | 10-1/2" x 24" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door..... | 485.23 | 52.07 |
| 10 44 13 00-0030  | EA | 14" x 30" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....     | 534.11 | 52.07 |

**10 44 13 00-0031 Semi Recessed Fire Extinguisher Cabinets** (10 44 13 00-0001)

**10 44 13 00-0032 Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets** (10 44 13 00-0031)

|   |    |  |        |       |
|---|----|--|--------|-------|
| Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |  |        |       |
| 10 44 13 00-0033  | EA | 9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....      | 436.36 | 52.07 |
| 10 44 13 00-0034  | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet..... | 449.22 | 52.07 |
| 10 44 13 00-0035  | EA | 10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....     | 450.50 | 52.07 |
| 10 44 13 00-0036  | EA | 12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....     | 494.24 | 52.07 |
| 10 44 13 00-0037  | EA | 16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....     | 581.71 | 52.07 |
| 10 44 13 00-0038  | EA | 20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....     | 595.85 | 52.07 |

**10 44 13 00-0039 Aluminum Door And Trim, Semi Recessed Fire Extinguisher Cabinets** (10 44 13 00-0031)

|  |    |   |        |       |
|--|----|---|--------|-------|
| Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |   |        |       |
| 10 44 13 00-0040   | EA | 9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....      | 462.92 | 52.07 |
| 10 44 13 00-0041   | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet..... | 478.89 | 52.07 |
| 10 44 13 00-0042   | EA | 10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....     | 488.47 | 52.07 |
| 10 44 13 00-0043   | EA | 12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....     | 506.56 | 52.07 |
| 10 44 13 00-0044   | EA | 16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....     | 569.37 | 52.07 |
| 10 44 13 00-0045   | EA | 20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....     | 584.27 | 52.07 |

**10 44 13 00-0046 Stainless Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets** (10 44 13 00-0031)

|   |    |  |        |       |
|---|----|--|--------|-------|
| Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub. |    |  |        |       |
| 10 44 13 00-0047  | EA | 9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....      | 609.68 | 52.07 |
| 10 44 13 00-0048  | EA | 10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet..... | 625.02 | 52.07 |
| 10 44 13 00-0049  | EA | 10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....     | 631.59 | 52.07 |



|                                    |              |           |
|------------------------------------|--------------|-----------|
| <b>Specialties</b>                 | <b>10</b>    | <b>10</b> |
| <b>Safety Specialties</b>          | <b>10 40</b> |           |
| <b>Fire Protection Specialties</b> | <b>10 44</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 10 44 13 00-0050 EA 12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet .....                          | 665.55                    | 52.07                   |
| 10 44 13 00-0051 EA 16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet .....                          | 749.90                    | 52.07                   |
| 10 44 13 00-0052 EA 20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet .....                          | 768.52                    | 52.07                   |
| <b>10 44 13 00-0053 Bronze Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031)</b>  |                           |                         |
| Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.                                       |                           |                         |
| 10 44 13 00-0054 EA 10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet .....                               | 2,037.54                  | 52.07                   |
| 10 44 13 00-0055 EA 10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....                                    | 2,047.52                  | 52.07                   |
| 10 44 13 00-0056 EA 12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....                                    | 2,348.93                  | 52.07                   |
| <b>10 44 13 00-0057 Acrylic Bubble Door And Steel Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031)</b>                          |                           |                         |
| Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.  |                           |                         |
| 10 44 13 00-0058 EA 10-1/2" x 24" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door .....           | 531.54                    | 52.07                   |
| 10 44 13 00-0059 EA 14" x 30" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door .....               | 577.85                    | 52.07                   |
| <b>10 44 13 00-0060 Surface Mounted Fire Extinguisher Cabinets (10 44 13 00-0001)</b>  |                           |                         |
| <b>10 44 13 00-0061 Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)</b>   |                           |                         |
| Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.  |                           |                         |
| 10 44 13 00-0062 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet .....                              | 426.07                    | 52.07                   |
| 10 44 13 00-0063 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet .....                         | 433.78                    | 52.07                   |
| 10 44 13 00-0064 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet .....                          | 495.52                    | 52.07                   |
| 10 44 13 00-0065 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet .....                          | 571.42                    | 52.07                   |
| 10 44 13 00-0066 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....                           | 592.00                    | 52.07                   |
| <b>10 44 13 00-0067 Aluminum Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)</b>                                      |                           |                         |
| Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.                                     |                           |                         |
| 10 44 13 00-0068 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....                            | 564.05                    | 52.07                   |
| 10 44 13 00-0069 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....                       | 575.89                    | 52.07                   |
| 10 44 13 00-0070 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet .....                       | 608.76                    | 52.07                   |
| 10 44 13 00-0071 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet .....                       | 669.43                    | 52.07                   |
| 10 44 13 00-0072 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet .....                       | 694.98                    | 52.07                   |
| <b>10 44 13 00-0073 Stainless Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)</b>                               |                           |                         |
| Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.                                    |                           |                         |
| 10 44 13 00-0074 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....                     | 704.99                    | 52.07                   |
| 10 44 13 00-0075 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....                | 725.80                    | 52.07                   |
| 10 44 13 00-0076 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....                 | 777.29                    | 52.07                   |
| 10 44 13 00-0077 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....                 | 876.97                    | 52.07                   |
| 10 44 13 00-0078 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....                 | 907.65                    | 52.07                   |
| <b>10 44 13 00-0079 Bronze Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)</b>  |                           |                         |
| Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.                                       |                           |                         |
| 10 44 13 00-0080 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet .....                        | 2,339.52                  | 52.07                   |
| 10 44 13 00-0081 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet .....                         | 2,638.62                  | 52.07                   |
| <b>10 44 13 00-0082 Acrylic Bubble Door And Steel Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)</b>                          |                           |                         |
| Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.  |                           |                         |
| 10 44 13 00-0083 EA 13-11/16" x 27-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door..... | 503.24                    | 52.07                   |
| 10 44 13 00-0084 EA 17-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....  | 559.84                    | 52.07                   |
| 10 44 13 00-0085 EA 31-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....  | 757.93                    | 52.07                   |
| <b>10 44 13 00-0086 Fire Extinguisher Cabinet Accessories (10 44 13 00-0001)</b>   |                           |                         |
| 10 44 13 00-0087 EA Standard Break Glass Cylinder Lock Mechanism .....   | 41.63                     | 15.87                   |
| 10 44 13 00-0088 EA Breaker Bar And Chain For Break Glass Cabinets .....   | 38.17                     | 15.87                   |
| 10 44 13 00-0089 EA Replacement Of Standard Pull Handle.....   | 36.07                     |                         |
| 10 44 13 00-0090 EA Fire Extinguisher Cabinet Battery Operated Alarm.....  | 107.93                    | 31.75                   |
| 10 44 13 00-0091 EA Fire Rated Option For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets .....  | 229.48                    |                         |
| 10 44 13 00-0092 EA Fire Rated Option For 12" x 27" x 7-3/4" Cabinets.....   | 252.43                    |                         |
| 10 44 13 00-0093 EA Fire Rated Option For 16" x 32" x 7-3/4" Cabinets.....   | 344.22                    |                         |
| 10 44 13 00-0094 EA Fire Rated Option For 20" x 27" x 7-3/4" Cabinets.....   | 470.43                    |                         |
| 10 44 13 00-0095 EA Fire Rated Option For 9" x 18" x 5-1/2" Cabinets.....  | 550.75                    |                         |
| 10 44 13 00-0096 EA Standard Glass With Wire Glass For 9" x 18" x 5-1/2" Cabinets .....  | 133.10                    |                         |
| 10 44 13 00-0097 EA Standard Glass With Wire Glass For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets .....   | 137.69                    |                         |
| 10 44 13 00-0098 EA Standard Glass With Wire Glass For 12" x 27" x 7-3/4" Cabinets .....   | 183.58                    |                         |
| 10 44 13 00-0099 EA Standard Glass With Wire Glass For 16" x 32" x 7-3/4" Cabinets .....   | 332.75                    |                         |
| 10 44 13 00-0100 EA Standard Glass With Wire Glass For 20" x 27" x 7-3/4" Cabinets .....   | 337.34                    |                         |

**10 Specialties****10 40 Safety Specialties****10 44 Fire Protection Specialties**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 10 44 13 00-0101 EA Standard Glass With Wire Glass For 12-3/16" x 21-3/16" x 6" Cabinets .....  | 107.94                    |                         |
| 10 44 13 00-0102 EA Standard Glass With Wire Glass For 13-11/16" x 27-3/16" x 6-1/2" Cabinets .....   | 113.34                    |                         |
| 10 44 13 00-0103 EA Standard Glass With Wire Glass For 15-3/16" x 30-3/16" x 8-1/4" Cabinets .....  | 152.92                    |                         |
| 10 44 13 00-0104 EA Standard Glass With Wire Glass For 19-3/16" x 35-3/16" x 8-1/4" Cabinets .....  | 269.85                    |                         |
| 10 44 13 00-0105 EA Standard Glass With Wire Glass For 23-3/16" x 30-3/16" x 8-1/4" Cabinets .....  | 273.45                    |                         |
| <b>10 44 13 00-0106 Fire Hose Cabinets (10 44 13)</b>   |                           |                         |
| Note: Excludes hoses, hose rack units, fire extinguishers and valves. See CSI section 21 12 13 00-0001 for fire hoses and nozzles, 21 12 13 00-0015 for fire hose rack units, 21 12 23 00-0001 for fire department valves, 21 12 23 00-0014 for fire hose angle valves. |                           |                         |
| <b>10 44 13 00-0107 Recessed Fire Hose Cabinets (10 44 13 00-0106)</b>  |                           |                         |
| <b>10 44 13 00-0108 Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)</b>   |                           |                         |
| Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.   |                           |                         |
| 10 44 13 00-0109 EA 34" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 722.46                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0110 EA 34" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 733.14                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0111 EA 38" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 742.04                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0112 EA 38" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 750.95                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0113 EA 30" x 30" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 761.63                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0114 EA 38" x 32" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 790.09                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0115 EA 23" x 18" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet .....  | 799.00                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| <b>10 44 13 00-0116 Aluminum Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)</b>  |                           |                         |
| Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.   |                           |                         |
| 10 44 13 00-0117 EA 34" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 826.86                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| 10 44 13 00-0118 EA 30" x 30" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 846.66                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| 10 44 13 00-0119 EA 34" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 849.23                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| 10 44 13 00-0120 EA 38" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 857.46                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| 10 44 13 00-0121 EA 38" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 868.26                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| 10 44 13 00-0122 EA 38" x 32" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 898.85                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| 10 44 13 00-0123 EA 23" x 18" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....  | 929.45                    | 202.85                  |
| For Solid Aluminum Door, Add  | 6.50                      |                         |
| <b>10 44 13 00-0124 Stainless Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)</b>   |                           |                         |
| Note: Includes #4 finish, stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.  |                           |                         |
| 10 44 13 00-0125 EA 23" x 18" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,061.76                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| 10 44 13 00-0126 EA 34" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,164.20                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| 10 44 13 00-0127 EA 34" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,174.06                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| 10 44 13 00-0128 EA 38" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,205.58                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| 10 44 13 00-0129 EA 38" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,215.43                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| 10 44 13 00-0130 EA 30" x 30" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,266.65                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| 10 44 13 00-0131 EA 38" x 32" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....   | 1,317.88                  | 202.85                  |
| For Solid Stainless Steel Door, Deduct  | -7.70                     |                         |
| <b>10 44 13 00-0132 Semi Recessed Fire Hose Cabinets (10 44 13 00-0106)</b>   |                           |                         |
| <b>10 44 13 00-0133 Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132)</b>  |                           |                         |
| Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.   |                           |                         |
| 10 44 13 00-0134 EA 34" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....   | 750.95                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0135 EA 34" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....   | 761.63                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0136 EA 38" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....   | 770.51                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |
| 10 44 13 00-0137 EA 38" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....   | 781.19                    | 202.85                  |
| For Solid Steel Door, Deduct  | -8.60                     |                         |



|                                    |              |           |
|------------------------------------|--------------|-----------|
| <b>Specialties</b>                 | <b>10</b>    | <b>10</b> |
| <b>Safety Specialties</b>          | <b>10 40</b> |           |
| <b>Fire Protection Specialties</b> | <b>10 44</b> |           |

| MINOR   | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|------------|-----|--|------------------------|----------------------|
| 10 44   | 13 00-0138 | EA  | 30" x 30" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>                     | 790.09<br>-8.60        | 202.85               |
| 10 44   | 13 00-0139 | EA  | 38" x 32" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>                     | 818.56<br>-8.60        | 202.85               |
| 10 44   | 13 00-0140 | EA  | 23" x 18" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>                     | 829.24<br>-8.60        | 202.85               |
| <b>10 44 13 00-0141 Aluminum Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132)</b>   |            |     |  |                        |                      |
| Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch. |            |     |  |                        |                      |
| 10 44   | 13 00-0142 | EA  | 34" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 846.66<br>6.50         | 202.85               |
| 10 44   | 13 00-0143 | EA  | 34" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 868.26<br>6.50         | 202.85               |
| 10 44   | 13 00-0144 | EA  | 30" x 30" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 871.34<br>6.50         | 202.85               |
| 10 44   | 13 00-0145 | EA  | 38" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 877.26<br>6.50         | 202.85               |
| 10 44   | 13 00-0146 | EA  | 38" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 888.05<br>6.50         | 202.85               |
| 10 44   | 13 00-0147 | EA  | 38" x 32" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 918.65<br>6.50         | 202.85               |
| 10 44   | 13 00-0148 | EA  | 23" x 18" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>                  | 949.25<br>6.50         | 202.85               |
| <b>10 44 13 00-0149 Stainless Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132)</b>  |            |     |  |                        |                      |
| Note: Includes #4 finish, 304 stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.        |            |     |  |                        |                      |
| 10 44   | 13 00-0150 | EA  | 23" x 18" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,122.83<br>-7.70      | 202.85               |
| 10 44   | 13 00-0151 | EA  | 34" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,235.13<br>-7.70      | 202.85               |
| 10 44   | 13 00-0152 | EA  | 34" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,244.98<br>-7.70      | 202.85               |
| 10 44   | 13 00-0153 | EA  | 38" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,276.50<br>-7.70      | 202.85               |
| 10 44   | 13 00-0154 | EA  | 38" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,286.35<br>-7.70      | 202.85               |
| 10 44   | 13 00-0155 | EA  | 30" x 30" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,337.58<br>-7.70      | 202.85               |
| 10 44   | 13 00-0156 | EA  | 38" x 32" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet .....<br><i>For Solid Stainless Steel Door, Deduct</i> | 1,388.80<br>-7.70      | 202.85               |
| <b>10 44 13 00-0157 Surface Mount Fire Hose Cabinets (10 44 13 00-0106)</b>   |            |     |  |                        |                      |
| <b>10 44 13 00-0158 Steel Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157)</b>  |            |     |  |                        |                      |
| Note: Includes baked enamel finish, steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.            |            |     |  |                        |                      |
| 10 44   | 13 00-0159 | EA  | 37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 761.63<br>-8.60        | 202.85               |
| 10 44   | 13 00-0160 | EA  | 37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 770.51<br>-8.60        | 202.85               |
| 10 44   | 13 00-0161 | EA  | 41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 781.19<br>-8.60        | 202.85               |
| 10 44   | 13 00-0162 | EA  | 41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 790.09<br>-8.60        | 202.85               |
| 10 44   | 13 00-0163 | EA  | 33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 799.00<br>-8.60        | 202.85               |
| 10 44   | 13 00-0164 | EA  | 41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 829.24<br>-8.60        | 202.85               |
| 10 44   | 13 00-0165 | EA  | 26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet .....<br><i>For Solid Steel Door, Deduct</i>         | 838.14<br>-8.60        | 202.85               |
| <b>10 44 13 00-0166 Aluminum Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157)</b>   |            |     |  |                        |                      |
| Note: Includes clear satin anodized finish, aluminum door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.                    |            |     |  |                        |                      |
| 10 44   | 13 00-0167 | EA  | 37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 898.85<br>6.50         | 202.85               |
| 10 44   | 13 00-0168 | EA  | 33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 918.65<br>6.50         | 202.85               |
| 10 44   | 13 00-0169 | EA  | 37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 923.79<br>6.50         | 202.85               |
| 10 44   | 13 00-0170 | EA  | 41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 929.45<br>6.50         | 202.85               |
| 10 44   | 13 00-0171 | EA  | 41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 938.45<br>6.50         | 202.85               |
| 10 44   | 13 00-0172 | EA  | 41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 970.85<br>6.50         | 202.85               |
| 10 44   | 13 00-0173 | EA  | 26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet .....<br><i>For Solid Aluminum Door, Add</i>      | 990.65<br>6.50         | 202.85               |

|           |   |
|-----------|---|
| <b>10</b> | <b>10</b> <b>Specialties</b>                    |
|           | <b>10 40</b> <b>Safety Specialties</b>          |
|           | <b>10 44</b> <b>Fire Protection Specialties</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |  |          |        |
|-------------------------|--|----------|--------|
| <b>10 44 13 00-0174</b> | <b>Stainless Steel Door And Trim, Surface Mount Fire Hose Cabinets</b> <small>(10 44 13 00-0157)</small>   |          |        |
|                         | <small>Note: Includes #4 finish, 304 stainless steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.</small> |          |        |
| 10 44 13 00-0175        | EA 26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,205.58 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |
| 10 44 13 00-0176        | EA 37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,532.63 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |
| 10 44 13 00-0177        | EA 41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,615.37 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |
| 10 44 13 00-0178        | EA 37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,635.07 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |
| 10 44 13 00-0179        | EA 41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,654.78 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |
| 10 44 13 00-0180        | EA 33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,737.52 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |
| 10 44 13 00-0181        | EA 41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....  | 1,839.97 | 202.85 |
|                         | <i>For Solid Stainless Steel Door, Deduct</i>  | -7.70    |        |

**10 44 16 Fire Extinguishers** (10 44)

**10 44 16 13 Portable Fire Extinguishers** (10 44 16)

Note: Includes filling, certification, bracket, hardware and mounting on wall.

|                         |  |          |       |
|-------------------------|--|----------|-------|
| <b>10 44 16 13-0001</b> | <b>Carbon Dioxide Type, Class BC Portable Fire Extinguisher</b> <small>(10 44 16 13)</small> |          |       |
| 10 44 16 13-0002        | EA 2.5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....                            | 225.79   | 16.50 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -7.06    |       |
|                         | <i>For &gt;10, Deduct</i>  | -14.11   |       |
|                         | <i>For Placement In Cabinet, Deduct</i>  | -42.33   |       |
| 10 44 16 13-0003        | EA 5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....                              | 330.93   | 19.05 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -11.66   |       |
|                         | <i>For &gt;10, Deduct</i>  | -23.32   |       |
|                         | <i>For Placement In Cabinet, Deduct</i>  | -48.85   |       |
| 10 44 16 13-0004        | EA 10 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....                             | 430.45   | 24.13 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -15.17   |       |
|                         | <i>For &gt;10, Deduct</i>  | -30.35   |       |
|                         | <i>For Placement In Cabinet, Deduct</i>  | -63.50   |       |
| 10 44 16 13-0005        | EA 15 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....                             | 529.88   | 30.47 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -18.56   |       |
|                         | <i>For &gt;10, Deduct</i>  | -37.12   |       |
|                         | <i>For Placement In Cabinet, Deduct</i>  | -79.37   |       |
| 10 44 16 13-0006        | EA 20 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....                             | 590.52   | 30.47 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -21.59   |       |
|                         | <i>For &gt;10, Deduct</i>  | -43.18   |       |
|                         | <i>For Placement In Cabinet, Deduct</i>  | -79.37   |       |
| 10 44 16 13-0007        | EA 50 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher.....                              | 1,907.80 | 48.25 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -82.69   |       |
|                         | <i>For &gt;10, Deduct</i>  | -165.38  |       |
| 10 44 16 13-0008        | EA 100 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher.....                             | 3,751.15 | 48.25 |
|                         | <i>For &gt;5 To 10, Deduct</i>   | -174.86  |       |
|                         | <i>For &gt;10, Deduct</i>  | -349.72  |       |

**10 44 16 13-0009 Dry Chemical Type, Class ABC Portable Fire Extinguisher** (10 44 16 13)

|                  |  |          |       |
|------------------|--|----------|-------|
| 10 44 16 13-0010 | EA 2.6 LB Dry Chemical, Type ABC Portable Fire Extinguisher..... | 138.47   | 16.50 |
|                  | <i>For &gt;5 To 10, Deduct</i>                                   | -2.69    |       |
|                  | <i>For &gt;10, Deduct</i>  | -5.38    |       |
|                  | <i>For Placement In Cabinet, Deduct</i>                          | -42.33   |       |
| 10 44 16 13-0011 | EA 5 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....   | 174.01   | 19.05 |
|                  | <i>For &gt;5 To 10, Deduct</i>                                   | -3.82    |       |
|                  | <i>For &gt;10, Deduct</i>  | -7.63    |       |
|                  | <i>For Placement In Cabinet, Deduct</i>                          | -48.85   |       |
| 10 44 16 13-0012 | EA 10 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....  | 248.49   | 24.13 |
|                  | <i>For &gt;5 To 10, Deduct</i>                                   | -6.08    |       |
|                  | <i>For &gt;10, Deduct</i>  | -12.15   |       |
|                  | <i>For Placement In Cabinet, Deduct</i>                          | -63.50   |       |
| 10 44 16 13-0013 | EA 20 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....  | 349.95   | 30.47 |
|                  | <i>For &gt;5 To 10, Deduct</i>                                   | -9.56    |       |
|                  | <i>For &gt;10, Deduct</i>  | -19.12   |       |
|                  | <i>For Placement In Cabinet, Deduct</i>                          | -79.37   |       |
| 10 44 16 13-0014 | EA 50 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher.....   | 2,289.11 | 48.25 |
|                  | <i>For &gt;5 To 10, Deduct</i>                                   | -101.76  |       |
|                  | <i>For &gt;10, Deduct</i>  | -203.51  |       |
| 10 44 16 13-0015 | EA 125 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher.....  | 3,403.69 | 48.25 |
|                  | <i>For &gt;5 To 10, Deduct</i>                                   | -157.49  |       |
|                  | <i>For &gt;10, Deduct</i>  | -314.97  |       |

**10 44 16 13-0016 Other Portable Fire Extinguishers** (10 44 16 13)



|                             |           |           |
|-----------------------------|-----------|-----------|
| <b>Specialties</b>          | <b>10</b> | <b>10</b> |
| Safety Specialties          | 10 40     |           |
| Fire Protection Specialties | 10 44     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 10 44 16 13-0017 EA 2.5 Gallon Water, Stored Pressure Portable Fire Extinguisher.....                  | 254.22                    | 19.05                   |
| Note: Stainless steel.   |                           |                         |
| For >5 To 10, Deduct   | -7.83                     |                         |
| For >10, Deduct  | -15.65                    |                         |
| For Placement In Cabinet, Deduct   | -48.85                    |                         |
| 10 44 16 13-0018 EA 1.6 Gallon Wet Chemical, Class K Portable Fire Extinguisher.....                   | 384.64                    | 30.47                   |
| Note: Stainless steel.   |                           |                         |
| For >5 To 10, Deduct   | -11.30                    |                         |
| For >10, Deduct  | -22.59                    |                         |
| For Placement In Cabinet, Deduct   | -79.37                    |                         |
| 10 44 16 13-0019 EA 2.5 Gallon Wet Chemical, Class K Portable Fire Extinguisher.....                   | 409.24                    | 30.47                   |
| Note: Stainless steel.   |                           |                         |
| For >5 To 10, Deduct   | -12.53                    |                         |
| For >10, Deduct  | -25.05                    |                         |
| For Placement In Cabinet, Deduct   | -79.37                    |                         |
| 10 44 16 13-0020 EA 30 LB Dry Powder, Class D Portable Fire Extinguisher.....                          | 579.25                    | 30.47                   |
| Note: Yellow steel.  |                           |                         |
| For >5 To 10, Deduct   | -21.03                    |                         |
| For >10, Deduct  | -42.05                    |                         |
| <b>10 44 16 13-0021 Fire Extinguisher Backboards (10 44 16 13)</b>                                     |                           |                         |
| <b>10 44 16 13-0022 Fire Extinguisher Backboards (10 44 16 13-0021)</b>                                |                           |                         |
| Note: Mounted to any wall. Includes anchors.   |                           |                         |
| 10 44 16 13-0023 EA Red Painted 1/2" x 12" x 40" Beveled Edge Plywood Fire Extinguisher Backboard..... | 133.14                    | 21.74                   |
| 10 44 16 13-0024 EA Relocate Fire Extinguisher Wood Backboard, Any Size.....                           | 191.82                    |                         |
| Note: Includes storage and cleaning.   |                           |                         |
| <b>10 44 16 13-0025 Inspections And Testing (10 44 16 13)</b>  |                           |                         |
| 10 44 16 13-0026 EA On Site Fire Extinguisher Annual Inspection (Tag).....                             | 11.28                     |                         |
| 10 44 16 13-0027 EA On Site Fire Extinguisher Hydrotest.....   | 16.59                     |                         |
| <b>10 44 19 Fire Blankets (10 44)</b>  |                           |                         |
| 10 44 19 00-0001 EA Vertical Roller Type Fire Blanket Cabinet (JL Industries 1FB).....                 | 486.33                    | 52.07                   |
| Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.                                  |                           |                         |
| 10 44 19 00-0002 EA Drop Type Fire Blanket Cabinet (JL Industries 2FB).....                            | 364.13                    | 52.07                   |
| Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.                                  |                           |                         |

**END OF SECTION 10**



|           |              |                                    |
|-----------|--------------|------------------------------------|
| <b>10</b> | <b>10</b>    | <b>Specialties</b>                 |
|           | <b>10 40</b> | <b>Safety Specialties</b>          |
|           | <b>10 44</b> | <b>Fire Protection Specialties</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

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| <b>Equipment</b>                    | <b>11</b>    |    |
| <b>Commercial Equipment</b>         | <b>11 20</b> | 11 |
| <b>Retail and Service Equipment</b> | <b>11 21</b> |    |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 11 Equipment

### 11 20 Commercial Equipment <sup>(11)</sup>

#### 11 21 Retail and Service Equipment <sup>(11 20)</sup>

##### 11 21 63 Refrigerated Display Equipment <sup>(11 21)</sup>

|                  |    |  |                   |          |
|------------------|----|--|-------------------|----------|
| 11 21 63 00-0001 |    | Dairy Products <sup>(11 21 63)</sup>                                     |                   |          |
| 11 21 63 00-0002 |    | Refrigerated Dairy Case <sup>(11 21 63 00-0001)</sup>                    |                   |          |
| 11 21 63 00-0003 | LF | Refrigerated Case, Dairy, Multi-Deck<br>For Rear Sliding Doors, Add      | 2,430.18<br>19.95 | 459.53   |
| 11 21 63 00-0004 |    | Refrigerated Milk Unit <sup>(11 21 63 00-0001)</sup>                     |                   |          |
| 11 21 63 00-0005 | EA | 46" x 32" x 49-1/2" Capacity: 12, 13" x 13" x 11" Refrigerated Milk Unit | 11,651.12         | 334.00   |
| 11 21 63 00-0006 |    | Refrigerated Ice Cream And Milk Dispenser <sup>(11 21 63 00-0001)</sup>  |                   |          |
| 11 21 63 00-0007 | EA | 63-1/2" x 28-1/2" x 35-3/8" Refrigerated Ice Cream And Milk Dispenser    | 12,917.82         | 366.80   |
| 11 21 63 00-0008 |    | Ice Cream Dispenser <sup>(11 21 63 00-0001)</sup>                        |                   |          |
| 11 21 63 00-0009 | EA | 46" x 28-1/2" x 35-3/8" Refrigerated Ice Cream Dispenser                 | 10,789.28         | 308.84   |
| 11 21 63 00-0010 |    | Drop-In Ice Cream Freezer <sup>(11 21 63 00-0001)</sup>                  |                   |          |
| 11 21 63 00-0011 | EA | 27-7/8" x 16-9/16" x 28-1/4" 6 Gallon Drop-In Ice Cream Freezer          | 2,690.64          | 76.86    |
| 11 21 63 00-0012 | EA | 30" x 27-7/8" x 28-1/4" 12 Gallon Drop-In Ice Cream Freezer              | 3,516.00          | 100.51   |
| 11 21 63 00-0013 |    | Ice Cream Cabinets <sup>(11 21 63 00-0001)</sup>                         |                   |          |
| 11 21 63 00-0014 | EA | 46" x 32" x 42", 24 Gallon Ice Cream Cabinet                             | 8,427.18          | 240.21   |
| 11 21 63 00-0015 | EA | 68" x 32" x 42", 48 Gallon Ice Cream Cabinet                             | 12,004.91         | 346.67   |
| 11 21 63 00-0016 |    | Delicatessen Case, Service Deli <sup>(11 21 63)</sup>                    |                   |          |
| 11 21 63 00-0017 | LF | Delicatessen Case, Single-Deck   | 2,409.10          | 382.95   |
| 11 21 63 00-0018 | LF | Delicatessen Case, Multi-Deck  | 2,697.17          | 459.53   |
| 11 21 63 00-0019 | EA | Delicatessen Case, 3 Shelf, 32" x 23" x 23"                              | 3,085.58          | 89.53    |
| 11 21 63 00-0020 |    | Meat Case <sup>(11 21 63)</sup>  |                   |          |
| 11 21 63 00-0021 | LF | Meat Case, Single - Deck   | 1,784.59          | 459.53   |
| 11 21 63 00-0022 | LF | Meat Case, Multi - Deck  | 1,933.30          | 459.53   |
| 11 21 63 00-0023 |    | Produce Case <sup>(11 21 63)</sup>                                       |                   |          |
| 11 21 63 00-0024 | LF | Single Deck Produce Case   | 1,858.63          | 459.53   |
| 11 21 63 00-0025 | LF | Multi-Deck Produce Case  | 2,051.42          | 459.53   |
| 11 21 63 00-0026 |    | Bottle Coolers <sup>(11 21 63)</sup>                                     |                   |          |
| 11 21 63 00-0027 | EA | Bottle Cooler, 6' Long   | 6,900.61          | 1,531.78 |
| 11 21 63 00-0028 | EA | Bottle Cooler, 10' Long  | 10,420.97         | 2,297.67 |
| 11 21 63 00-0029 |    | Cold Pan Units <sup>(11 21 63)</sup>                                     |                   |          |
| 11 21 63 00-0030 | EA | 5" x 48", Iced, Cold Pan Units   | 4,313.02          | 122.31   |
| 11 21 63 00-0031 | EA | 5" x 72", Iced, Cold Pan Units   | 5,992.28          | 171.13   |
| 11 21 63 00-0032 | EA | 8" x 72", Iced, Cold Pan Units   | 7,085.11          | 202.39   |
| 11 21 63 00-0033 | EA | 5" x 48", Mechanical, Cold Pan Units                                     | 7,283.73          | 209.10   |
| 11 21 63 00-0034 | EA | 8" x 48", Mechanical, Cold Pan Units                                     | 7,927.52          | 225.73   |
| 11 21 63 00-0035 | EA | 8" x 72", Mechanical, Cold Pan Units                                     | 9,419.53          | 266.75   |
| 11 21 63 00-0036 |    | Cold Cabinets (Insulated) <sup>(11 21 63)</sup>                          |                   |          |
| 11 21 63 00-0037 | EA | 69-3/4" x 32" x 24", Insulated Cold Cabinet                              | 3,916.17          | 105.85   |

### 11 30 Residential Equipment <sup>(11)</sup>

#### 11 32 Unit Kitchens <sup>(11 30)</sup>

##### 11 32 13 Metal Unit Kitchens <sup>(11 32)</sup>

|    |                                    |
|----|------------------------------------|
| 11 | <b>11 Equipment</b>                |
|    | <b>11 30 Residential Equipment</b> |
|    | <b>11 32 Unit Kitchens</b>         |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

Note: Includes electrical hook-up to outlet, supply line connection to service stops, and drain line and p-trap. Excludes garbage disposer and hood exhaust vent piping.

|                         |  |          |          |
|-------------------------|--|----------|----------|
| <b>11 32 13 00-0001</b> | <b>30" Compact Kitchen</b> <small>(11 32 13)</small>   |          |          |
| 11 32 13 00-0002        | EA 30" Compact Unit Kitchen With Refrigerator, Range And Sink                                  | 2,770.65 | 765.66   |
|                         | <i>For Gas Unit, Add</i>   | 262.47   |          |
| 11 32 13 00-0003        | EA 30" Compact Unit Kitchen With Refrigerator And Sink   | 2,270.06 | 535.96   |
| 11 32 13 00-0004        | EA 30" Compact Unit Kitchen With Refrigerator And Range  | 2,053.87 | 459.39   |
| 11 32 13 00-0005        | EA 30" Compact Unit Kitchen Cabinet For Upper Wall Section                                     | 633.21   | 380.97   |
| 11 32 13 00-0006        | EA 30" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section | 1,221.58 | 253.98   |
|                         | <i>For Range Hood In Upper Section, Add</i>  | 179.00   |          |
| 11 32 13 00-0007        | EA 30" Compact Unit Kitchen Stainless Steel Shield For Rear Wall                               | 73.04    | 16.87    |
| 11 32 13 00-0008        | EA 30" Compact Unit Kitchen Stainless Steel Shield For Side Wall                               | 66.05    | 16.87    |
| <b>11 32 13 00-0009</b> | <b>42" Compact Kitchen</b> <small>(11 32 13)</small>   |          |          |
| 11 32 13 00-0010        | EA 42" Compact Unit Kitchen With Refrigerator, Range And Sink                                  | 3,189.48 | 842.22   |
|                         | <i>For Gas Unit, Add</i>   | 309.98   |          |
| 11 32 13 00-0011        | EA 42" Compact Unit Kitchen With Refrigerator And Sink   | 2,824.36 | 689.09   |
| 11 32 13 00-0012        | EA 42" Compact Unit Kitchen Cabinet For Upper Wall Section                                     | 789.10   | 215.88   |
| 11 32 13 00-0013        | EA 42" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section | 1,412.25 | 285.73   |
|                         | <i>For Range Hood In Upper Section, Add</i>  | 179.00   |          |
| 11 32 13 00-0014        | EA 42" Compact Unit Kitchen Stainless Steel Shield For Rear Wall                               | 87.22    | 16.87    |
| 11 32 13 00-0015        | EA 42" Compact Unit Kitchen Stainless Steel Shield For Side Wall                               | 73.47    | 16.87    |
| <b>11 32 13 00-0016</b> | <b>54" Compact Kitchen</b> <small>(11 32 13)</small>   |          |          |
| 11 32 13 00-0017        | EA 54" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink                            | 4,266.86 | 1,071.92 |
|                         | <i>For Gas Unit, Add</i>   | 425.65   |          |
| 11 32 13 00-0018        | EA 54" Compact Unit Kitchen Cabinet For Upper Wall Section                                     | 970.39   | 126.99   |
| 11 32 13 00-0019        | EA 54" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section | 1,570.34 | 317.47   |
|                         | <i>For Range Hood In Upper Section, Add</i>  | 179.00   |          |
| 11 32 13 00-0020        | EA 54" Compact Unit Kitchen Stainless Steel Shield For Rear Wall                               | 101.23   | 16.87    |
| 11 32 13 00-0021        | EA 54" Compact Unit Kitchen Stainless Steel Shield For Side Wall                               | 76.67    | 16.87    |
| <b>11 32 13 00-0022</b> | <b>60" Compact Kitchen</b> <small>(11 32 13)</small>   |          |          |
| 11 32 13 00-0023        | EA 60" Compact Unit Kitchen With Refrigerator, Oven, Range, And Sink                           | 4,504.07 | 1,148.49 |
|                         | <i>For Gas Unit, Add</i>   | 445.91   |          |
| 11 32 13 00-0024        | EA 60" Compact Unit Kitchen Cabinet For Upper Wall Section                                     | 1,160.45 | 317.47   |
| 11 32 13 00-0025        | EA 60" Compact Unit Kitchen Stainless Steel Shield For Rear Wall                               | 107.12   | 16.87    |
| 11 32 13 00-0026        | EA 60" Compact Unit Kitchen Stainless Steel Shield For Side Wall                               | 76.67    | 16.87    |
| <b>11 32 13 00-0027</b> | <b>72" Compact Kitchen</b> <small>(11 32 13)</small>   |          |          |
| 11 32 13 00-0028        | EA 72" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink                            | 4,825.36 | 1,225.05 |
|                         | <i>For Gas Unit, Add</i>   | 478.79   |          |
| 11 32 13 00-0029        | EA 72" Compact Unit Kitchen Cabinet For Upper Wall Section                                     | 1,413.56 | 380.97   |
| 11 32 13 00-0030        | EA 72" Compact Unit Kitchen Stainless Steel Shield For Rear Wall                               | 124.71   | 21.09    |
| 11 32 13 00-0031        | EA 72" Compact Unit Kitchen Stainless Steel Shield For Side Wall                               | 80.50    | 21.09    |

## 11 40 Foodservice Equipment (11)

### 11 41 Foodservice Storage Equipment (11 40)

#### 11 41 13 Refrigerated Food Storage Cases (11 41)

|                         |  |          |        |
|-------------------------|--|----------|--------|
| <b>11 41 13 00-0001</b> | <b>Frozen Food Cases</b> <small>(11 41 13)</small> |          |        |
| 11 41 13 00-0002        | LF Chest Type Frozen Food Case                     | 1,845.55 | 459.53 |
| 11 41 13 00-0003        | LF Reach-in Frozen Food Case (Glass Door)          | 3,522.38 | 459.53 |
| 11 41 13 00-0004        | LF Island Type Frozen Food Case                    | 2,139.20 | 459.53 |
| 11 41 13 00-0005        | LF Multi-Deck Frozen Food Case                     | 3,380.27 | 459.53 |

|                         |   |           |        |
|-------------------------|---|-----------|--------|
| <b>11 41 13 00-0006</b> | <b>Reach-In Refrigerators</b> <small>(11 41 13)</small>   |           |        |
| 11 41 13 00-0007        | EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator                        | 6,498.46  | 204.27 |
| 11 41 13 00-0008        | EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator                           | 8,004.13  | 257.64 |
| 11 41 13 00-0009        | EA Three Section, 69.1 CF, Full Door, Self Contained, Reach-In Refrigerator                         | 10,698.05 | 284.63 |
| 11 41 13 00-0010        | EA Single Section, Glass Door, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator            | 5,964.66  | 204.27 |
| 11 41 13 00-0011        | EA Two Section, Glass Door, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator               | 7,759.54  | 257.64 |
| 11 41 13 00-0012        | EA Three Section, Glass Door, 61.1 CF, Full Door, Self Contained, Reach-In Refrigerator             | 10,316.64 | 284.63 |
| 11 41 13 00-0013        | EA Single Section, Pass-Thru, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator             | 7,809.05  | 204.27 |
| 11 41 13 00-0014        | EA Two Section, Pass-Thru, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator                | 10,564.72 | 257.64 |
| 11 41 13 00-0015        | EA Single Section, Pass-Thru, Glass Door, 25.6 CF, Full Door, Self Contained, Reach-In Refrigerator | 8,092.55  | 204.27 |
| 11 41 13 00-0016        | EA Two Section, Pass-Thru, Glass Door, 48.8 CF, Full Door, Self Contained, Reach-In Refrigerator    | 11,658.17 | 257.64 |

|                         |   |          |        |
|-------------------------|---|----------|--------|
| <b>11 41 13 00-0017</b> | <b>Reach-In Freezers</b> <small>(11 41 13)</small>                      |          |        |
| 11 41 13 00-0018        | EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Freezer | 7,311.15 | 204.52 |
| 11 41 13 00-0019        | EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Freezer    | 9,695.60 | 257.27 |



|                               |           |   |
|-------------------------------|-----------|---|
| <b>Equipment</b>              | <b>11</b> |   |
| Foodservice Equipment         | 11 40     | ↑ |
| Foodservice Storage Equipment | 11 41     |   |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**11 41 23 Walk-In-Coolers (11 41)**

**11 41 23 00-0001 Walk-In Refrigerated Boxes (11 41 23)**

Note: Overall height includes 4" floor panel and 4" ceiling panel. See CSI section 11 41 23 00-0171 for air cooled condensing units for coolers and freezers, 11 41 23 00-0282 for accessories, 21 13 16 00-0000 for dry-pipe sprinkler heads, 26 50 00 00-0000 for lighting.

**11 41 23 00-0002 Walk-In Refrigerated Unit, 7'6" High With Floor (11 41 23 00-0001)**

Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 11 41 23 00-0003 | EA | 6' x 6' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 13,835.55 | 1,534.50 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -2,947.30 |          |
| 11 41 23 00-0004 | EA | 6' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 16,549.58 | 1,726.32 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -3,561.96 |          |
| 11 41 23 00-0005 | EA | 6' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 17,512.63 | 1,918.14 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -3,738.78 |          |
| 11 41 23 00-0006 | EA | 6' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 19,784.42 | 2,301.76 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,179.26 |          |
| 11 41 23 00-0007 | EA | 6' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 22,817.81 | 2,685.39 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,809.80 |          |
| 11 41 23 00-0008 | EA | 6' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 25,208.24 | 3,069.01 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,278.87 |          |
| 11 41 23 00-0009 | EA | 6' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 27,555.03 | 3,452.64 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,737.88 |          |
| 11 41 23 00-0010 | EA | 8' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 18,234.76 | 1,918.14 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -3,919.32 |          |
| 11 41 23 00-0011 | EA | 8' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 19,955.21 | 2,109.94 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,285.68 |          |
| 11 41 23 00-0012 | EA | 8' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 22,468.04 | 2,493.57 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,785.45 |          |
| 11 41 23 00-0013 | EA | 8' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 25,800.94 | 2,877.19 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,491.17 |          |
| 11 41 23 00-0014 | EA | 8' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 28,356.59 | 3,260.82 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,002.59 |          |
| 11 41 23 00-0015 | EA | 8' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 30,996.66 | 3,644.45 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,534.13 |          |
| 11 41 23 00-0016 | EA | 8' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 33,550.12 | 4,028.08 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -7,045.56 |          |
| 11 41 23 00-0017 | EA | 8' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 36,181.63 | 4,411.70 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -7,574.45 |          |
| 11 41 23 00-0018 | EA | 8' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 38,747.84 | 4,795.33 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,088.52 |          |

**11 41 23 00-0019 Walk-In Refrigerated Unit, 7'6" High With Floor (11 41 23 00-0001)**

Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 11 41 23 00-0020 | EA | 10' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 22,634.84 | 2,301.76 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -4,891.87 |          |
| 11 41 23 00-0021 | EA | 10' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 25,386.57 | 2,685.39 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -5,451.99 |          |
| 11 41 23 00-0022 | EA | 10' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 28,261.95 | 3,069.01 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -6,042.30 |          |
| 11 41 23 00-0023 | EA | 10' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 30,972.99 | 3,452.64 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -6,592.37 |          |
| 11 41 23 00-0024 | EA | 10' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 33,891.99 | 3,836.26 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -7,195.38 |          |
| 11 41 23 00-0025 | EA | 10' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 36,601.74 | 4,219.89 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -7,742.81 |          |
| 11 41 23 00-0026 | EA | 10' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 39,530.72 | 4,603.51 |
|                  |    | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -8,348.99 |          |

**11 Equipment**  
**11 40 Foodservice Equipment**  
**11 41 Foodservice Storage Equipment**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 11 41 23 00-0027 | EA  |     | 10' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 42,228.34              | 4,987.14             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -8,895.89              |                      |
| 11 41 23 00-0028 | EA  |     | 10' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 45,152.79              | 5,370.76             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -9,498.90              |                      |
| 11 41 23 00-0029 | EA  |     | 10' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 47,868.39              | 5,754.40             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -10,048.97             |                      |
| 11 41 23 00-0030 | EA  |     | 10' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 51,047.57              | 6,329.83             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -10,652.51             |                      |
| 11 41 23 00-0031 | EA  |     | 10' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 53,989.93              | 6,905.27             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -11,199.40             |                      |
| 11 41 23 00-0032 | EA  |     | 12' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 28,056.28              | 2,877.19             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -6,055.01              |                      |
| 11 41 23 00-0033 | EA  |     | 12' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 31,247.24              | 3,260.82             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -6,725.26              |                      |
| 11 41 23 00-0034 | EA  |     | 12' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 34,173.19              | 3,644.45             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -7,328.27              |                      |
| 11 41 23 00-0035 | EA  |     | 12' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 37,349.25              | 4,028.08             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -7,995.34              |                      |
| 11 41 23 00-0036 | EA  |     | 12' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 40,289.95              | 4,411.70             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -8,601.53              |                      |
| 11 41 23 00-0037 | EA  |     | 12' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 43,466.05              | 4,795.33             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -9,268.07              |                      |
| 11 41 23 00-0038 | EA  |     | 12' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 46,384.08              | 5,178.96             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -9,871.08              |                      |
| 11 41 23 00-0039 | EA  |     | 12' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 49,580.78              | 5,562.58             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -10,541.33             |                      |
| 11 41 23 00-0040 | EA  |     | 12' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 52,636.75              | 6,042.11             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -11,144.34             |                      |
| 11 41 23 00-0041 | EA  |     | 12' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 56,071.41              | 6,617.55             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -11,811.42             |                      |
| 11 41 23 00-0042 | EA  |     | 12' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 59,261.08              | 7,193.00             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -12,417.61             |                      |
| 11 41 23 00-0043 | EA  |     | 12' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 62,686.22              | 7,768.43             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -13,084.15             |                      |
| 11 41 23 00-0044 | EA  |     | 12' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 65,857.51              | 8,343.87             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -13,687.16             |                      |
| 11 41 23 00-0045 |     |     | <b>Walk-In Refrigerated Unit, 7'6" High With Floor</b> <small>(11 41 23 00-0001)</small><br>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide. |                        |                      |
| 11 41 23 00-0046 | EA  |     | 14' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 37,054.99              | 3,452.64             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -8,112.87              |                      |
| 11 41 23 00-0047 | EA  |     | 14' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 40,622.01              | 3,836.26             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -8,877.89              |                      |
| 11 41 23 00-0048 | EA  |     | 14' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 44,488.01              | 4,219.89             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -9,714.37              |                      |
| 11 41 23 00-0049 | EA  |     | 14' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 48,054.42              | 4,603.51             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -10,479.92             |                      |
| 11 41 23 00-0050 | EA  |     | 14' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 51,897.71              | 4,987.14             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -11,313.23             |                      |
| 11 41 23 00-0051 | EA  |     | 14' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 55,485.00              | 5,370.76             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -12,081.95             |                      |
| 11 41 23 00-0052 | EA  |     | 14' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 59,333.57              | 5,754.40             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -12,915.26             |                      |
| 11 41 23 00-0053 | EA  |     | 14' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 63,160.76              | 6,329.83             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -13,680.81             |                      |



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ↑ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 11 41 23 00-0054        | EA  |     | 14' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 67,261.50              | 6,905.27             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -14,517.30             |                      |
| 11 41 23 00-0055        | EA  |     | 14' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 71,119.50              | 7,480.72             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -15,282.31             |                      |
| 11 41 23 00-0056        | EA  |     | 14' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 75,200.41              | 8,056.15             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -16,116.15             |                      |
| 11 41 23 00-0057        | EA  |     | 14' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 79,046.16              | 8,535.69             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -16,884.34             |                      |
| <b>11 41 23 00-0058</b> |     |     | <b>Walk-In Refrigerated Unit, 7'6" High With Floor</b> <small>(11 41 23 00-0001)</small>  |                        |                      |
|                         |     |     | Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.  |                        |                      |
| 11 41 23 00-0059        | EA  |     | 16' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 44,466.81              | 4,028.08             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -9,774.73              |                      |
| 11 41 23 00-0060        | EA  |     | 16' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 48,601.88              | 4,411.70             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -10,679.51             |                      |
| 11 41 23 00-0061        | EA  |     | 16' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 52,599.65              | 4,795.33             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,551.47             |                      |
| 11 41 23 00-0062        | EA  |     | 16' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 56,737.47              | 5,178.96             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -12,459.43             |                      |
| 11 41 23 00-0063        | EA  |     | 16' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 60,741.00              | 5,562.58             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -13,331.39             |                      |
| 11 41 23 00-0064        | EA  |     | 16' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 65,004.06              | 6,042.11             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -14,236.17             |                      |
| 11 41 23 00-0065        | EA  |     | 16' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 69,270.98              | 6,617.55             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -15,111.31             |                      |
| 11 41 23 00-0066        | EA  |     | 16' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 73,655.02              | 7,193.00             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -16,016.09             |                      |
| 11 41 23 00-0067        | EA  |     | 16' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 77,901.82              | 7,768.43             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -16,888.05             |                      |
| 11 41 23 00-0068        | EA  |     | 16' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 82,292.90              | 8,343.87             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -17,796.01             |                      |
| 11 41 23 00-0069        | EA  |     | 18' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 52,065.33              | 4,603.51             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,482.65             |                      |
| 11 41 23 00-0070        | EA  |     | 18' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 56,310.97              | 4,987.14             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -12,416.55             |                      |
| 11 41 23 00-0071        | EA  |     | 18' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 60,785.58              | 5,370.76             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -13,407.10             |                      |
| 11 41 23 00-0072        | EA  |     | 18' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 65,025.92              | 5,754.40             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -14,338.35             |                      |
| 11 41 23 00-0073        | EA  |     | 18' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 69,763.71              | 6,329.83             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -15,331.55             |                      |
| 11 41 23 00-0074        | EA  |     | 18' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 74,243.52              | 6,905.27             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -16,262.80             |                      |
| 11 41 23 00-0075        | EA  |     | 18' x 30' Walk-in Refrigerated Box, 7' 6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 79,003.66              | 7,480.72             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -17,253.35             |                      |
| 11 41 23 00-0076        | EA  |     | 18' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 83,484.81              | 8,056.15             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -18,187.25             |                      |
| 11 41 23 00-0077        | EA  |     | 18' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 88,219.99              | 8,631.59             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -19,177.80             |                      |
| 11 41 23 00-0078        | EA  |     | 18' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 92,945.77              | 9,334.91             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -20,109.06             |                      |
| <b>11 41 23 00-0079</b> |     |     | <b>Walk-In Refrigerated Unit, 8'6" High With Floor</b> <small>(11 41 23 00-0001)</small>  |                        |                      |
|                         |     |     | Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide. |                        |                      |
| 11 41 23 00-0080        | EA  |     | 6' x 6' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 14,602.15              | 1,534.50             |
|                         |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -3,138.95              |                      |

**11 Equipment**  
**11 40 Foodservice Equipment**  
**11 41 Foodservice Storage Equipment**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 11 41 23 00-0081 | EA  |     | 6' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 16,846.05              | 1,726.32             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -3,636.07              |                      |
| 11 41 23 00-0082 | EA  |     | 6' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 18,486.76              | 1,918.14             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -3,982.32              |                      |
| 11 41 23 00-0083 | EA  |     | 6' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 20,902.57              | 2,301.76             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,458.80              |                      |
| 11 41 23 00-0084 | EA  |     | 6' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 23,999.48              | 2,685.39             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,105.22              |                      |
| 11 41 23 00-0085 | EA  |     | 6' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 26,533.91              | 3,069.01             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,610.29              |                      |
| 11 41 23 00-0086 | EA  |     | 6' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 28,944.24              | 3,452.64             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,085.18              |                      |
| 11 41 23 00-0087 | EA  |     | 8' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 19,289.37              | 1,918.14             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,182.97              |                      |
| 11 41 23 00-0088 | EA  |     | 8' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 21,073.35              | 2,109.94             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -4,565.21              |                      |
| 11 41 23 00-0089 | EA  |     | 8' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 23,730.18              | 2,493.57             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,100.99              |                      |
| 11 41 23 00-0090 | EA  |     | 8' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 27,126.61              | 2,877.19             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,822.59              |                      |
| 11 41 23 00-0091 | EA  |     | 8' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 29,826.27              | 3,260.82             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,370.01              |                      |
| 11 41 23 00-0092 | EA  |     | 8' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 32,529.87              | 3,644.45             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,917.44              |                      |
| 11 41 23 00-0093 | EA  |     | 8' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 35,227.33              | 4,028.08             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -7,464.86              |                      |
| 11 41 23 00-0094 | EA  |     | 8' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 37,922.37              | 4,411.70             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,009.63              |                      |
| 11 41 23 00-0095 | EA  |     | 8' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....   | 40,632.58              | 4,795.33             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,559.70              |                      |
| 11 41 23 00-0096 |     |     | <b>Walk-In Refrigerated Unit, 8'6" High With Floor</b> <small>(11 41 23 00-0001)</small><br><small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.</small> |                        |                      |
| 11 41 23 00-0097 | EA  |     | 10' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 23,816.51              | 2,301.76             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,187.28              |                      |
| 11 41 23 00-0098 | EA  |     | 10' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 26,712.25              | 2,685.39             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -5,783.41              |                      |
| 11 41 23 00-0099 | EA  |     | 10' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 29,651.15              | 3,069.01             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,389.60              |                      |
| 11 41 23 00-0100 | EA  |     | 10' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 32,506.19              | 3,452.64             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,975.67              |                      |
| 11 41 23 00-0101 | EA  |     | 10' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 35,488.73              | 3,836.26             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -7,594.57              |                      |
| 11 41 23 00-0102 | EA  |     | 10' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 38,342.48              | 4,219.89             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,177.99              |                      |
| 11 41 23 00-0103 | EA  |     | 10' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 41,334.99              | 4,603.51             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,800.06              |                      |
| 11 41 23 00-0104 | EA  |     | 10' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 44,176.61              | 4,987.14             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -9,382.96              |                      |
| 11 41 23 00-0105 | EA  |     | 10' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 47,164.60              | 5,370.76             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -10,001.85             |                      |
| 11 41 23 00-0106 | EA  |     | 10' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 50,024.20              | 5,754.40             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -10,587.92             |                      |
| 11 41 23 00-0107 | EA  |     | 10' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....  | 53,266.91              | 6,329.83             |
|                  |     |     | <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,207.35             |                      |



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ↑ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 41 23 00-0108 EA 10' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 56,353.28                 | 6,809.37                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,790.24                |                         |
| 11 41 23 00-0109 EA 12' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 29,525.96                 | 2,877.19                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -6,422.43                 |                         |
| 11 41 23 00-0110 EA 12' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 32,780.44                 | 3,260.82                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -7,108.56                 |                         |
| 11 41 23 00-0111 EA 12' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 35,850.41                 | 3,644.45                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -7,747.57                 |                         |
| 11 41 23 00-0112 EA 12' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 39,090.00                 | 4,028.08                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,430.53                 |                         |
| 11 41 23 00-0113 EA 12' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 42,174.69                 | 4,411.70                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -9,072.71                 |                         |
| 11 41 23 00-0114 EA 12' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 45,414.33                 | 4,795.33                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -9,755.14                 |                         |
| 11 41 23 00-0115 EA 12' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 48,476.36                 | 5,178.96                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -10,394.15                |                         |
| 11 41 23 00-0116 EA 12' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 51,736.58                 | 5,562.58                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,080.28                |                         |
| 11 41 23 00-0117 EA 12' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 54,936.57                 | 6,042.11                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,719.30                |                         |
| 11 41 23 00-0118 EA 12' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 58,434.76                 | 6,617.55                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -12,402.25                |                         |
| 11 41 23 00-0119 EA 12' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 61,768.42                 | 7,193.00                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -13,044.44                |                         |
| 11 41 23 00-0120 EA 12' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 65,257.10                 | 7,768.43                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -13,726.87                |                         |
| 11 41 23 00-0121 EA 12' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 68,572.39                 | 8,343.87                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -14,365.88                |                         |
| <b>11 41 23 00-0122 Walk-In Refrigerated Unit, 8'6" High With Floor</b> <small>(11 41 23 00-0001)</small>   |                           |                         |
| <i>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.</i> |                           |                         |
| 11 41 23 00-0123 EA 14' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 38,651.73                 | 3,452.64                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -8,512.06                 |                         |
| 11 41 23 00-0124 EA 14' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 42,362.75                 | 3,836.26                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -9,313.07                 |                         |
| 11 41 23 00-0125 EA 14' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 46,292.29                 | 4,219.89                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -10,165.44                |                         |
| 11 41 23 00-0126 EA 14' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 50,002.70                 | 4,603.51                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -10,966.99                |                         |
| 11 41 23 00-0127 EA 14' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 53,909.51                 | 4,987.14                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -11,816.18                |                         |
| 11 41 23 00-0128 EA 14' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 57,640.81                 | 5,370.76                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -12,620.90                |                         |
| 11 41 23 00-0129 EA 14' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 61,552.91                 | 5,754.40                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -13,470.10                |                         |
| 11 41 23 00-0130 EA 14' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 65,524.10                 | 6,329.83                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -14,271.64                |                         |
| 11 41 23 00-0131 EA 14' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 69,688.37                 | 6,905.27                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -15,124.01                |                         |
| 11 41 23 00-0132 EA 14' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 73,690.38                 | 7,480.72                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -15,925.03                |                         |
| 11 41 23 00-0133 EA 14' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 77,834.82                 | 8,056.15                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -16,774.75                |                         |
| 11 41 23 00-0134 EA 14' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....                                  | 81,824.57                 | 8,631.59                |
| <i>For Refrigerated Boxes Without Floor, Deduct</i>   | -17,578.95                |                         |



**11 Equipment**  
**11 40 Foodservice Equipment**  
**11 41 Foodservice Storage Equipment**



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

| 11 41 23 00-0135   | Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small> |  |  |            |          |
|--|---|--|--|------------|----------|
| Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide. |   |  |  |            |          |
| 11 41 23 00-0136   | EA  |  | 16' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 46,351.55  | 4,028.08 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -10,245.91 |          |
| 11 41 23 00-0137   | EA  |  | 16' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 50,550.16  | 4,411.70 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -11,166.58 |          |
| 11 41 23 00-0138   | EA  |  | 16' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 54,691.93  | 4,795.33 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -12,074.54 |          |
| 11 41 23 00-0139   | EA  |  | 16' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 58,893.27  | 5,178.96 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -12,998.38 |          |
| 11 41 23 00-0140   | EA  |  | 16' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 63,040.81  | 5,562.58 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -13,906.34 |          |
| 11 41 23 00-0141   | EA  |  | 16' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 67,367.41  | 6,042.11 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -14,827.01 |          |
| 11 41 23 00-0142   | EA  |  | 16' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 71,778.32  | 6,617.55 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -15,738.14 |          |
| 11 41 23 00-0143   | EA  |  | 16' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 76,225.89  | 7,193.00 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -16,658.81 |          |
| 11 41 23 00-0144   | EA  |  | 16' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 80,616.70  | 7,768.43 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -17,566.77 |          |
| 11 41 23 00-0145   | EA  |  | 16' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 85,071.31  | 8,343.87 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -18,490.61 |          |
| 11 41 23 00-0146   | EA  |  | 18' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 54,077.13  | 4,603.51 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -11,985.60 |          |
| 11 41 23 00-0147   | EA  |  | 18' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 58,466.78  | 4,987.14 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -12,955.50 |          |
| 11 41 23 00-0148   | EA  |  | 18' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 63,004.92  | 5,370.76 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -13,961.93 |          |
| 11 41 23 00-0149   | EA  |  | 18' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 67,389.26  | 5,754.40 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -14,929.19 |          |
| 11 41 23 00-0150   | EA  |  | 18' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 72,190.59  | 6,329.83 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -15,938.27 |          |
| 11 41 23 00-0151   | EA  |  | 18' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 76,814.40  | 6,905.27 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -16,905.52 |          |
| 11 41 23 00-0152   | EA  |  | 18' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 81,638.07  | 7,480.72 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -17,911.95 |          |
| 11 41 23 00-0153   | EA  |  | 18' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 86,263.22  | 8,056.15 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -18,881.85 |          |
| 11 41 23 00-0154   | EA  |  | 18' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 91,061.93  | 8,631.59 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -19,888.29 |          |
| 11 41 23 00-0155   | EA  |  | 18' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door..... | 95,931.71  | 9,334.91 |
|  |   |  | <i>For Refrigerated Boxes Without Floor, Deduct</i>  | -20,855.54 |          |

| 11 41 23 00-0156 | Walk-In Refrigerated Unit Metal Price Add-Ons <small>(11 41 23 00-0001)</small> |  |   |        |  |
|------------------|---|--|---|--------|--|
| 11 41 23 00-0157 | SF  |  | Metal Price Add-on, 190 Series Embossed White Polyester vs. 24 Gauge Galvalume® .....                 | 0.90   |  |
| 11 41 23 00-0158 | SF  |  | Metal Price Add-ons, 24 Gauge White Polyester vs. 24 Gauge Galvalume® .....                           | 1.67   |  |
| 11 41 23 00-0159 | SF  |  | Metal Price Add-ons, 0.038" Stucco Embossed Aluminum vs. 24 Gauge Galvalume® .....                    | 2.34   |  |
| 11 41 23 00-0160 | SF  |  | Metal Price Add-ons, 22 Gauge Stainless Steel vs. 24 Gauge Galvalume® .....                           | 16.52  |  |
| 11 41 23 00-0161 | SF  |  | Metal Price Add-ons, 20 Gauge Stainless Steel vs. 24 Gauge Galvalume® .....                           | 21.60  |  |
| 11 41 23 00-0162 | SF  |  | Metal Price Add-ons, 24 Gauge Embossed Tan Polyester vs. 24 Gauge Galvalume® .....                    | 2.67   |  |
| 11 41 23 00-0163 | SF  |  | Metal Price Add-ons, 0.040" Embossed White Aluminum vs. 24 Gauge Galvalume® .....                     | 6.55   |  |
| 11 41 23 00-0164 | SF  |  | Metal Price Add-ons, 0.040" Smooth White Aluminum vs. 24 Gauge Galvalume® .....                       | 8.47   |  |
| 11 41 23 00-0165 | SF  |  | Metal Price Add-ons, 24 Gauge Smooth Kynar® Painted vs. 24 Gauge Galvalume® .....                     | 8.89   |  |
| 11 41 23 00-0166 | SF  |  | Metal Price Deducts, 14 GA Galvanized vs. 10 Gauge Smooth Aluminum Interior Floor .....               | -11.94 |  |
| 11 41 23 00-0167 | SF  |  | Metal Price Add-ons, 16 GA Stainless Steel Type 430 vs. 10 Gauge Smooth Aluminum Interior Floor ..... | 4.98   |  |
| 11 41 23 00-0168 | SF  |  | Metal Price Add-ons, 16 GA Stainless Steel Type 304 vs. 10 Gauge Smooth Aluminum Interior Floor ..... | 12.93  |  |
| 11 41 23 00-0169 | SF  |  | Metal Price Add-ons, 12 GA Rigid Aluminum vs. 10 Gauge Smooth Aluminum Interior Floor .....           | 11.34  |  |
| 11 41 23 00-0170 | SF  |  | Metal Price Add-ons, 16 GA Rigid Stainless Steel vs. 10 Gauge Smooth Aluminum Interior Floor .....    | 36.74  |  |

| 11 41 23 00-0171 | Air Cooled Condensing Units For Walk-In Coolers And Freezers <small>(11 41 23)</small> |  |  |  |  |
|------------------|--|--|--|--|--|
|------------------|--|--|--|--|--|



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ↑ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|------------------------------|--|-------------------------|
| 11 41 23 00-0172             | <b>Medium Temperature Hermetic System, Indoor</b> <small>(11 41 23 00-0171)</small>  |                         |
|                              | Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally. |                         |
| 11 41 23 00-0173             | <b>208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0172)</small>   |                         |
|                              | Note: Pre-Assembled indoor R404a.  |                         |
| 11 41 23 00-0174             | EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                        | 4,991.13 211.47         |
| 11 41 23 00-0175             | EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                        | 5,276.41 246.72         |
| 11 41 23 00-0176             | EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                          | 6,079.19 281.96         |
| 11 41 23 00-0177             | EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                      | 6,559.70 317.21         |
| 11 41 23 00-0178             | EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                          | 7,227.05 352.45         |
| 11 41 23 00-0179             | EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                          | 8,128.30 422.94         |
| 11 41 23 00-0180             | EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                          | 11,025.26 493.44        |
| 11 41 23 00-0181             | EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                          | 11,834.94 563.93        |
| 11 41 23 00-0182             | <b>208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0172)</small>   |                         |
|                              | Note: Pre-Assembled indoor R404a.  |                         |
| 11 41 23 00-0183             | EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                          | 6,087.73 281.96         |
| 11 41 23 00-0184             | EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                      | 6,559.70 317.21         |
| 11 41 23 00-0185             | EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                          | 7,303.94 352.45         |
| 11 41 23 00-0186             | EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                          | 8,036.77 422.94         |
| 11 41 23 00-0187             | EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                          | 11,025.26 493.44        |
| 11 41 23 00-0188             | EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                          | 11,728.76 563.93        |
| 11 41 23 00-0189             | <b>Medium Temperature Hermetic System, Outdoor</b> <small>(11 41 23 00-0171)</small>   |                         |
|                              | Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally. |                         |
| 11 41 23 00-0190             | <b>208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0189)</small>   |                         |
|                              | Note: Pre-Assembled outdoor R404a.   |                         |
| 11 41 23 00-0191             | EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                       | 4,314.23 211.47         |
| 11 41 23 00-0192             | EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                       | 4,757.15 246.72         |
| 11 41 23 00-0193             | EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                         | 5,484.72 281.96         |
| 11 41 23 00-0194             | EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                     | 5,726.90 317.21         |
| 11 41 23 00-0195             | EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                         | 6,153.47 352.45         |
| 11 41 23 00-0196             | EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                         | 7,019.96 422.94         |
| 11 41 23 00-0197             | EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                         | 9,346.53 493.44         |
| 11 41 23 00-0198             | EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                         | 10,019.02 563.93        |
| 11 41 23 00-0199             | <b>208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0189)</small>   |                         |
|                              | Note: Pre-Assembled outdoor R404a.   |                         |
| 11 41 23 00-0200             | EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                         | 5,449.02 281.96         |
| 11 41 23 00-0201             | EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                     | 5,741.37 317.21         |
| 11 41 23 00-0202             | EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                         | 6,228.73 352.45         |
| 11 41 23 00-0203             | EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                         | 6,948.56 422.94         |
| 11 41 23 00-0204             | EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                         | 9,368.72 493.44         |
| 11 41 23 00-0205             | EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                         | 9,930.26 563.93         |
| 11 41 23 00-0206             | <b>Low Temperature Hermetic System, Indoor</b> <small>(11 41 23 00-0171)</small>   |                         |
|                              | Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally. |                         |
| 11 41 23 00-0207             | <b>208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0206)</small>   |                         |
|                              | Note: Pre-Assembled indoor R404a.  |                         |
| 11 41 23 00-0208             | EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                           | 5,663.61 211.47         |
| 11 41 23 00-0209             | EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                           | 5,879.32 246.72         |
| 11 41 23 00-0210             | EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                             | 6,164.62 281.96         |
| 11 41 23 00-0211             | EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                         | 6,586.55 317.21         |
| 11 41 23 00-0212             | EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                             | 7,167.25 352.45         |
| 11 41 23 00-0213             | EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                             | 8,463.93 422.94         |
| 11 41 23 00-0214             | <b>208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0206)</small>   |                         |
|                              | Note: Pre-Assembled indoor R404a.  |                         |
| 11 41 23 00-0215             | EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                             | 6,173.16 281.96         |
| 11 41 23 00-0216             | EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                         | 6,586.55 317.21         |
| 11 41 23 00-0217             | EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                             | 7,246.58 352.45         |
| 11 41 23 00-0218             | EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....                             | 8,376.06 422.94         |
| 11 41 23 00-0219             | <b>Low Temperature Hermetic System, Outdoor</b> <small>(11 41 23 00-0171)</small>  |                         |
|                              | Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally. |                         |
| 11 41 23 00-0220             | <b>208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0219)</small>   |                         |
|                              | Note: Pre-Assembled outdoor R404a.   |                         |
| 11 41 23 00-0221             | EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....                          | 5,062.00 211.47         |

|              |                                      |
|--------------|--------------------------------------|
| <b>11</b>    | <b>Equipment</b>                     |
| <b>11 40</b> | <b>Foodservice Equipment</b>         |
| <b>11 41</b> | <b>Foodservice Storage Equipment</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 41 23 00-0222 EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 5,154.67                  | 246.72                  |
| 11 41 23 00-0223 EA 1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 5,445.16                  | 281.96                  |
| 11 41 23 00-0224 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 5,908.29                  | 317.21                  |
| 11 41 23 00-0225 EA 2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 6,449.69                  | 352.45                  |
| 11 41 23 00-0226 EA 3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 7,273.72                  | 422.94                  |
| <b>11 41 23 00-0227 208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0219)</small><br>Note: Pre-Assembled outdoor R404a.   |                           |                         |
| 11 41 23 00-0228 EA 1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 5,619.80                  | 281.96                  |
| 11 41 23 00-0229 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 5,994.17                  | 317.21                  |
| 11 41 23 00-0230 EA 2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 6,519.16                  | 352.45                  |
| 11 41 23 00-0231 EA 3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 7,203.28                  | 422.94                  |
| <b>11 41 23 00-0232 Medium Temperature Semi-Hermetic System, Indoor</b> <small>(11 41 23 00-0171)</small><br>Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.  |                           |                         |
| <b>11 41 23 00-0233 208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0232)</small><br>Note: Pre-Assembled indoor R404a.  |                           |                         |
| 11 41 23 00-0234 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....  | 6,448.99                  | 281.96                  |
| 11 41 23 00-0235 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....  | 14,749.39                 | 563.93                  |
| <b>11 41 23 00-0236 208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0232)</small><br>Note: Pre-Assembled indoor R404a.  |                           |                         |
| 11 41 23 00-0237 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....  | 6,453.87                  | 281.96                  |
| 11 41 23 00-0238 EA 2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....  | 8,921.05                  | 352.45                  |
| 11 41 23 00-0239 EA 3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....  | 11,134.30                 | 422.94                  |
| 11 41 23 00-0240 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....  | 14,550.46                 | 563.93                  |
| <b>11 41 23 00-0241 Medium Temperature Semi-Hermetic System, Outdoor</b> <small>(11 41 23 00-0171)</small><br>Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally. |                           |                         |
| <b>11 41 23 00-0242 208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0241)</small><br>Note: Pre-Assembled outdoor R404a.   |                           |                         |
| 11 41 23 00-0243 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 5,702.77                  | 281.96                  |
| 11 41 23 00-0244 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 13,997.14                 | 563.93                  |
| <b>11 41 23 00-0245 208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0241)</small><br>Note: Pre-Assembled outdoor R404a.   |                           |                         |
| 11 41 23 00-0246 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 5,712.42                  | 281.96                  |
| 11 41 23 00-0247 EA 2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 6,754.58                  | 352.45                  |
| 11 41 23 00-0248 EA 3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 9,674.29                  | 422.94                  |
| 11 41 23 00-0249 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 12,676.25                 | 563.93                  |
| <b>11 41 23 00-0250 Low Temperature Semi-Hermetic System, Indoor</b> <small>(11 41 23 00-0171)</small><br>Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.     |                           |                         |
| <b>11 41 23 00-0251 208/230 Volt, 1 Phase</b> <small>(11 41 23 00-0250)</small><br>Note: Pre-Assembled indoor R404a.  |                           |                         |
| 11 41 23 00-0252 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 6,588.41                  | 246.72                  |
| 11 41 23 00-0253 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 7,042.13                  | 281.96                  |
| 11 41 23 00-0254 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 8,261.02                  | 317.21                  |
| 11 41 23 00-0255 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 9,567.89                  | 352.45                  |
| 11 41 23 00-0256 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....   | 12,092.36                 | 422.94                  |
| <b>11 41 23 00-0257 208/230 Volt, 3 Phase</b> <small>(11 41 23 00-0250)</small><br>Note: Pre-Assembled indoor R404a.  |                           |                         |
| 11 41 23 00-0258 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 6,554.23                  | 246.72                  |
| 11 41 23 00-0259 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 7,037.25                  | 281.96                  |
| 11 41 23 00-0260 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 8,214.65                  | 317.21                  |
| 11 41 23 00-0261 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....   | 9,487.34                  | 352.45                  |



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ↑ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 41 23 00-0262 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....           | 11,663.98                 | 422.94                  |
| 11 41 23 00-0263 EA 4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....           | 16,290.33                 | 493.44                  |
| 11 41 23 00-0264 EA 6 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....           | 17,203.05                 | 634.42                  |
| 11 41 23 00-0265 EA 7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....       | 24,764.21                 | 740.15                  |
| <b>11 41 23 00-0266 Low Temperature Semi-Hermetic System, Outdoor <small>(11 41 23 00-0171)</small></b>                                   |                           |                         |
| Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally. |                           |                         |
| <b>11 41 23 00-0267 208/230 Volt, 1 Phase <small>(11 41 23 00-0266)</small></b>   |                           |                         |
| Note: Pre-Assembled outdoor R404a.  |                           |                         |
| 11 41 23 00-0268 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....        | 5,835.86                  | 246.72                  |
| 11 41 23 00-0269 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....          | 6,131.17                  | 281.96                  |
| 11 41 23 00-0270 EA 1-1/2 Low Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....  | 7,127.88                  | 317.21                  |
| 11 41 23 00-0271 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....          | 8,182.57                  | 352.45                  |
| 11 41 23 00-0272 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz .....          | 10,239.70                 | 422.94                  |
| <b>11 41 23 00-0273 208/230 Volt, 3 Phase <small>(11 41 23 00-0266)</small></b>   |                           |                         |
| Note: Pre-Assembled outdoor R404a.  |                           |                         |
| 11 41 23 00-0274 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....        | 5,750.95                  | 246.72                  |
| 11 41 23 00-0275 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....          | 6,135.03                  | 281.96                  |
| 11 41 23 00-0276 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....      | 7,113.40                  | 317.21                  |
| 11 41 23 00-0277 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....          | 8,111.18                  | 352.45                  |
| 11 41 23 00-0278 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....          | 9,933.84                  | 422.94                  |
| 11 41 23 00-0279 EA 4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....          | 14,413.01                 | 493.44                  |
| 11 41 23 00-0280 EA 6 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....          | 15,278.49                 | 634.42                  |
| 11 41 23 00-0281 EA 7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz .....      | 21,412.35                 | 740.15                  |
| <b>11 41 23 00-0282 Walk-In Refrigerated Boxes Accessories <small>(11 41 23)</small></b>  |                           |                         |
| <b>11 41 23 00-0283 Accessories <small>(11 41 23 00-0282)</small></b>   |                           |                         |
| 11 41 23 00-0284 EA Super Door Package, For 36" Or 42" Door .....   | 1,088.21                  |                         |
| Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.                                    |                           |                         |
| 11 41 23 00-0285 EA Super Door Package, For 48" Door .....  | 1,488.45                  |                         |
| Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.                                    |                           |                         |
| 11 41 23 00-0286 EA Super Door Package, For 60" Door .....  | 1,488.45                  |                         |
| Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.                                    |                           |                         |
| 11 41 23 00-0287 EA 14" x 24" Observation Window, Heated .....  | 1,716.56                  |                         |
| 11 41 23 00-0288 EA Heated Air Vent, Kason .....  | 604.77                    |                         |
| 11 41 23 00-0289 EA Heated Air Vent, Bally Polyvinyl Chloride (PVC) .....   | 1,462.43                  |                         |
| 11 41 23 00-0290 EA Interior Ramps For 36" Or 42" Wide Doors .....  | 2,139.68                  |                         |
| 11 41 23 00-0291 EA Interior Ramps For 48" Wide Doors .....   | 2,340.86                  |                         |
| 11 41 23 00-0292 EA Interior Ramps For 60" Wide Doors .....   | 2,573.80                  |                         |
| 11 41 23 00-0293 EA Exterior Ramps For 36" Or 42" Wide Doors .....  | 856.36                    |                         |
| 11 41 23 00-0294 EA Exterior Ramps For 48" Wide Doors .....   | 1,584.84                  |                         |
| 11 41 23 00-0295 EA Exterior Ramps For 60" Wide Doors .....   | 1,584.84                  |                         |
| 11 41 23 00-0296 EA Field Installed Extra Vapor-Proof Lights .....  | 186.96                    |                         |
| 11 41 23 00-0297 EA Field Installed Fluorescent Lights, 48", 2 Tubes .....  | 942.98                    |                         |
| 11 41 23 00-0298 EA Alarm With Digital Thermostat Modularm 75 With Adjustable Setting (Flush Mounted) .....                               | 2,107.71                  |                         |
| 11 41 23 00-0299 EA Alarm With Digital Thermostat Modularm 75B (Battery Backup) (Flush Mounted) .....                                     | 2,215.71                  |                         |
| 11 41 23 00-0300 EA Alarm With Digital Thermostat National TM100 With Adjustable Setting (Flush Mounted) .....                            | 1,048.86                  |                         |
| 11 41 23 00-0301 EA Locking Devices, 36" Or 42" Wide Locking Bar .....  | 585.09                    |                         |
| 11 41 23 00-0302 EA Locking Devices, 48" Wide Locking Bar .....   | 669.79                    |                         |
| 11 41 23 00-0303 EA Locking Devices, 60" Wide Locking Bar .....   | 669.79                    |                         |
| 11 41 23 00-0304 EA Locking Devices, Mortise Dead Bolt (Cooler) .....   | 1,203.45                  |                         |
| 11 41 23 00-0305 EA Locking Devices, Mortise Dead Bolt (Freezer) .....  | 1,482.99                  |                         |
| 11 41 23 00-0306 EA Blast Freezer Kit, For 36" Or 42" Wide Doors .....  | 2,402.27                  |                         |
| 11 41 23 00-0307 EA Blast Freezer Kit, For 48" Wide Doors .....   | 2,537.80                  |                         |
| 11 41 23 00-0308 EA Blast Freezer Kit, For 60" Wide Doors .....   | 2,609.80                  |                         |
| 11 41 23 00-0309 EA Hardware Options, Polished For 36" Or 42" Door .....  | 116.47                    |                         |
| 11 41 23 00-0310 EA Hardware Options, Polished For 48" Or 60" Door .....  | 95.30                     |                         |
| 11 41 23 00-0311 EA Hardware Options, Chrome For 36" Or 42" Door .....  | 294.36                    |                         |
| 11 41 23 00-0312 EA Hardware Options, Chrome For 48" Or 60" Door .....  | 158.83                    |                         |
| 11 41 23 00-0313 EA Hardware Options, Positive Latch, 36" Or 42" Door .....   | 370.80                    |                         |
| 11 41 23 00-0314 EA Hardware Options, Strap Hinges, 36" Or 42" Door .....   | 269.15                    |                         |
| 11 41 23 00-0315 EA 4" Scream Door .....  | 693.71                    |                         |
| 11 41 23 00-0316 EA Doors Cut For Tile .....  | 846.19                    |                         |
| 11 41 23 00-0317 EA 84" High Doors (36" Wide) .....   | 846.19                    |                         |
| 11 41 23 00-0318 EA Doors Raised Or Lowered In Panel .....  | 1,966.44                  |                         |
| 11 41 23 00-0319 EA 57-1/2" Door Section .....  | 530.65                    |                         |
| 11 41 23 00-0320 EA 3 Way, Interior And Exterior, Light Switches .....  | 468.61                    |                         |
| 11 41 23 00-0321 EA 3 Way (1 Side Only) Light Switch .....  | 237.51                    |                         |
| 11 41 23 00-0322 EA Structural Support, 5" Reinforcing Ceilings (Every 23") .....   | 434.54                    |                         |
| 11 41 23 00-0323 EA Structural Support, 6" Reinforcing Ceilings (Every 23") .....   | 553.13                    |                         |

**11 Equipment**  
**11 40 Foodservice Equipment**  
**11 41 Foodservice Storage Equipment**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 11 41 23 00-0324        | LF  |     | Structural Support, Self-Supporting Standard Angle.....  | 58.30                  |                      |
| 11 41 23 00-0325        | LF  |     | Structural Support, Self-Supporting 6" Channel.....  | 75.77                  |                      |
| 11 41 23 00-0326        | LF  |     | Structural Support, Self-Supporting 8" Channel.....  | 110.18                 |                      |
| 11 41 23 00-0327        | LF  |     | Structural Support, Self-Supporting 10" Channel.....   | 176.36                 |                      |
| 11 41 23 00-0328        | LF  |     | Structural Support, Suspended Ceiling Support.....   | 31.59                  |                      |
| 11 41 23 00-0329        | LF  |     | Factory Prepared Opening, Foam Cut Opening.....  | 7.89                   |                      |
| 11 41 23 00-0330        | LF  |     | Factory Prepared Opening, Metal Capped Opening.....  | 37.06                  |                      |
| 11 41 23 00-0331        | LF  |     | Factory Prepared Opening, Wood Framed Opening.....   | 24.20                  |                      |
| 11 41 23 00-0332        | LF  |     | Factory Prepared Opening, Metal Capped Wood Framed Opening.....  | 57.18                  |                      |
| 11 41 23 00-0333        | LF  |     | Factory Prepared Opening, Opening For Glass Doors (Doors Provided By Others, No Charge For Opening When Glass Door Purchased Through Manufacturer).....  | 97.51                  |                      |
| 11 41 23 00-0334        | SF  |     | Outdoor Weather Roofs, Aluminum Roof Caps.....   | 39.20                  |                      |
| 11 41 23 00-0335        | SF  |     | Outdoor Weather Roofs, Membrane Roof Caps.....   | 11.65                  |                      |
| 11 41 23 00-0336        | SF  |     | Outdoor Weather Roofs, Painted Aluminum Roofs.....   | 48.69                  |                      |
| 11 41 23 00-0337        | SF  |     | 1/8" Aluminum Tread Plate.....   | 95.30                  |                      |
| 11 41 23 00-0338        | SF  |     | 3/16" Aluminum Tread Plate.....  | 115.94                 |                      |
| 11 41 23 00-0339        | EA  |     | Digitemp Display Thermometer (Indoor Exterior Wall).....   | 468.33                 |                      |
| 11 41 23 00-0340        | EA  |     | 4-1/2" Dial Type Thermometer With 5' Cap Tube.....   | 419.63                 |                      |
| 11 41 23 00-0341        | EA  |     | 6" Dial Type Thermometer With 5' Cap Tube.....   | 1,374.71               |                      |
| 11 41 23 00-0342        | EA  |     | 2" Dial Type Thermometer (Standard).....   | 140.09                 |                      |
| 11 41 23 00-0343        | LF  |     | Extra Capillary Tubing.....  | 18.38                  |                      |
| <b>11 41 23 00-0344</b> |     |     | <b>Partition Wall For Walk-In Refrigerated Boxes</b> <small>(11 41 23 00-0282)</small>   |                        |                      |
|                         |     |     | Note: Includes 36" x 78" door. Sizes listed as 7'-2"/7'-6" are for either 7'-2" or 7'-6" high refrigerated boxes. Sizes listed as 8'-2"/8'-6" are for either 8'-2" or 8'-6" high refrigerated boxes. |                        |                      |
| 11 41 23 00-0345        | EA  |     | 5'-10" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 4,947.73               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 240.99                 |                      |
| 11 41 23 00-0346        | EA  |     | 6'-9-1/2" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.  | 5,390.37               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 262.81                 |                      |
| 11 41 23 00-0347        | EA  |     | 7'-9" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.  | 5,544.99               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 270.22                 |                      |
| 11 41 23 00-0348        | EA  |     | 8'-8-1/2" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.  | 5,996.12               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 292.45                 |                      |
| 11 41 23 00-0349        | EA  |     | 9'-8" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.  | 5,871.21               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 285.89                 |                      |
| 11 41 23 00-0350        | EA  |     | 10'-7-1/2" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 6,311.73               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 307.59                 |                      |
| 11 41 23 00-0351        | EA  |     | 11'-7" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 6,445.18               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 313.95                 |                      |
| 11 41 23 00-0352        | EA  |     | 12'-6-1/2" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 7,072.06               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 344.97                 |                      |
| 11 41 23 00-0353        | EA  |     | 13'-6" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 6,794.69               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 330.78                 |                      |
| 11 41 23 00-0354        | EA  |     | 14'-5-1/2" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 7,237.34               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 352.60                 |                      |
| 11 41 23 00-0355        | EA  |     | 15'-5" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 7,402.55               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 360.54                 |                      |
| 11 41 23 00-0356        | EA  |     | 16'-4-1/2" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 7,847.31               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 382.46                 |                      |
| 11 41 23 00-0357        | EA  |     | 17'-4" Length Partition Wall, 7'-2"/7'-6" High.....<br>Note: Galvalume both sides.   | 9,044.08               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 441.97                 |                      |
| 11 41 23 00-0358        | EA  |     | 5'-10" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.   | 5,400.92               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 263.65                 |                      |
| 11 41 23 00-0359        | EA  |     | 6'-9-1/2" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.  | 5,775.79               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 282.08                 |                      |
| 11 41 23 00-0360        | EA  |     | 7'-9" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.  | 5,957.94               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 290.86                 |                      |
| 11 41 23 00-0361        | EA  |     | 8'-8-1/2" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.  | 6,457.78               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 315.54                 |                      |
| 11 41 23 00-0362        | EA  |     | 9'-8" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.  | 6,307.46               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 307.70                 |                      |
| 11 41 23 00-0363        | EA  |     | 10'-7-1/2" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.   | 6,805.15               |                      |
|                         |     |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>   | 332.27                 |                      |



|                                      |              |    |
|--------------------------------------|--------------|----|
| <b>Equipment</b>                     | <b>11</b>    |    |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | 11 |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |    |

| MINOR            | CSI   | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|---|-----|--|------------------------|----------------------|
| 11 41 23 00-0364 | EA  |     | 11'-7" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.                   | 6,989.43               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 341.16                 |                      |
| 11 41 23 00-0365 | EA  |     | 12'-6-1/2" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.               | 7,487.13               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 365.73                 |                      |
| 11 41 23 00-0366 | EA  |     | 13'-6" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.                   | 7,336.82               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 357.89                 |                      |
| 11 41 23 00-0367 | EA  |     | 14'-5-1/2" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.               | 7,834.53               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 382.46                 |                      |
| 11 41 23 00-0368 | EA  |     | 15'-5" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.                   | 8,018.80               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 391.35                 |                      |
| 11 41 23 00-0369 | EA  |     | 16'-4-1/2" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.               | 8,516.50               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 415.91                 |                      |
| 11 41 23 00-0370 | EA  |     | 17'-4" Length Partition Wall, 8'-2"/8'-6" High.....<br>Note: Galvalume both sides.                   | 8,366.17               |                      |
|                  |   |     | <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>                                   | 408.08                 |                      |
| <br>             |   |     |  |                        |                      |
| 11 41 23 00-0371 | <b>Glass Doors For Walk-In Refrigerated Boxes</b> <small>(11 41 23 00-0282)</small>           |     |  |                        |                      |
|                  |   |     | Note: Factory installed, includes lights and 5 tier shelves.   |                        |                      |
| 11 41 23 00-0372 | EA  |     | 23" x 67" Glass Door, Displayrite, Coolrite Model.....   | 2,102.87               |                      |
| 11 41 23 00-0373 | EA  |     | 23" x 73" Glass Door, Displayrite, Coolrite Model.....   | 2,297.69               |                      |
| 11 41 23 00-0374 | EA  |     | 30" x 67" Glass Door, Displayrite, Coolrite Model.....   | 2,316.75               |                      |
| 11 41 23 00-0375 | EA  |     | 30" x 73" Glass Door, Displayrite, Coolrite Model.....   | 2,562.40               |                      |
| 11 41 23 00-0376 | EA  |     | 23" x 67" Glass Door, Displayrite, Freezerite Model.....   | 2,812.29               |                      |
| 11 41 23 00-0377 | EA  |     | 23" x 73" Glass Door, Displayrite, Freezerite Model.....   | 2,990.18               |                      |
| 11 41 23 00-0378 | EA  |     | 30" x 67" Glass Door, Displayrite, Freezerite Model.....   | 3,000.77               |                      |
| 11 41 23 00-0379 | EA  |     | 30" x 73" Glass Door, Displayrite, Freezerite Model.....   | 3,492.07               |                      |
| 11 41 23 00-0380 | EA  |     | 24" x 67" Glass Door, Anthony Model 101.....   | 2,858.88               |                      |
| 11 41 23 00-0381 | EA  |     | 26" x 67" Glass Door, Anthony Model 101.....   | 3,540.78               |                      |
| 11 41 23 00-0382 | EA  |     | 30" x 67" Glass Door, Anthony Model 101.....   | 3,780.08               |                      |
| 11 41 23 00-0383 | EA  |     | 30x75 Glass Door, Anthony Model 101.....   | 3,860.55               |                      |
| 11 41 23 00-0384 | EA  |     | 24" x 67" Glass Door, Anthony Model 101.....   | 4,353.97               |                      |
| 11 41 23 00-0385 | EA  |     | 26" x 67" Glass Door, Anthony Model 101.....   | 4,832.57               |                      |
| 11 41 23 00-0386 | EA  |     | 30" x 67" Glass Door, Anthony Model 101.....   | 4,921.51               |                      |
| 11 41 23 00-0387 | EA  |     | 30" x 75" Glass Door, Anthony Model 101.....   | 5,249.75               |                      |
| 11 41 23 00-0388 | EA  |     | 23" x 67" Glass Door, Anthony Model 401.....   | 2,257.46               |                      |
| 11 41 23 00-0389 | EA  |     | 26-3/4" x 67" Glass Door, Anthony Model 401.....   | 2,378.17               |                      |
| 11 41 23 00-0390 | EA  |     | 30-1/4" x 67" Glass Door, Anthony Model 401.....   | 3,197.71               |                      |
| 11 41 23 00-0391 | EA  |     | 30-1/4" x 75" Glass Door, Anthony Model 401.....   | 2,742.41               |                      |
| 11 41 23 00-0392 | EA  |     | 23" x 67" Glass Door, Anthony Model 401.....   | 3,045.24               |                      |
| 11 41 23 00-0393 | EA  |     | 26-3/4" x 67" Glass Door, Anthony Model 401.....   | 3,187.12               |                      |
| 11 41 23 00-0394 | EA  |     | 30-1/4" x 67" Glass Door, Anthony Model 401.....   | 3,197.71               |                      |
| 11 41 23 00-0395 | EA  |     | 30-1/4" x 75" Glass Door, Anthony Model 401.....   | 3,807.61               |                      |
| <br>             |   |     |  |                        |                      |
| 11 41 23 00-0396 | <b>Modular Wire Shelving For Walk-In Refrigerated Boxes</b> <small>(11 41 23 00-0282)</small> |     |  |                        |                      |
| 11 41 23 00-0397 | EA  |     | 14" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 748.15<br>402.00       |                      |
| 11 41 23 00-0398 | EA  |     | 14" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 788.44<br>402.00       |                      |
| 11 41 23 00-0399 | EA  |     | 14" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 879.54<br>402.00       |                      |
| 11 41 23 00-0400 | EA  |     | 14" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 928.28<br>402.00       |                      |
| 11 41 23 00-0401 | EA  |     | 14" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 1,008.83<br>402.00     |                      |
| 11 41 23 00-0402 | EA  |     | 18" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 864.68<br>402.00       |                      |
| 11 41 23 00-0403 | EA  |     | 18" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 885.89<br>402.00       |                      |
| 11 41 23 00-0404 | EA  |     | 18" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 979.11<br>402.00       |                      |
| 11 41 23 00-0405 | EA  |     | 18" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 1,023.62<br>402.00     |                      |
| 11 41 23 00-0406 | EA  |     | 18" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 1,169.81<br>402.00     |                      |
| 11 41 23 00-0407 | EA  |     | 21" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 943.07<br>402.00       |                      |
| 11 41 23 00-0408 | EA  |     | 21" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 953.70<br>402.00       |                      |
| 11 41 23 00-0409 | EA  |     | 21" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 1,089.26<br>402.00     |                      |
| 11 41 23 00-0410 | EA  |     | 21" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 1,095.65<br>402.00     |                      |
| 11 41 23 00-0411 | EA  |     | 21" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts.....<br><i>For Cantilever Shelving, Add</i> | 1,263.03<br>402.00     |                      |

**11 Equipment****11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 41 23 00-0412 EA 14" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 638.03                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0413 EA 14" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 669.85                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0414 EA 14" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 735.54                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0415 EA 14" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 750.40                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0416 EA 14" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 856.36                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0417 EA 18" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 703.73                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0418 EA 18" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 754.60                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0419 EA 18" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 799.10                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0420 EA 18" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 809.73                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0421 EA 18" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 955.92                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0422 EA 21" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 773.65                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0423 EA 21" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 803.34                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0424 EA 21" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 862.67                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0425 EA 21" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 894.47                    |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0426 EA 21" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....          | 1,044.90                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0427 EA 14" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,507.99                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0428 EA 14" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,798.76                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0429 EA 14" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,854.17                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0430 EA 14" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,909.59                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0431 EA 14" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,520.49                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0432 EA 18" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,632.07                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0433 EA 18" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,795.34                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0434 EA 18" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,095.89                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0435 EA 18" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,219.94                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0436 EA 18" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,938.70                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0437 EA 21" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 2,844.37                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0438 EA 21" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,105.69                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0439 EA 21" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,406.24                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0440 EA 21" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 3,530.30                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0441 EA 21" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... | 4,484.38                  |                         |
| For Cantilever Shelving, Add  | 402.00                    |                         |
| 11 41 23 00-0442 EA 14" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 881.69                    |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0443 EA 14" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 951.61                    |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0444 EA 14" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,032.12                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0445 EA 14" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,106.28                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0446 EA 14" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,199.55                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0447 EA 18" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,046.91                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0448 EA 18" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,072.36                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0449 EA 18" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,184.63                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0450 EA 18" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,241.85                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0451 EA 18" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,419.83                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0452 EA 21" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,142.24                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |
| 11 41 23 00-0453 EA 21" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....           | 1,178.28                  |                         |
| For Cantilever Shelving, Add  | 472.00                    |                         |



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ↑ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 11 41 23 00-0454 | EA  |     | 21" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>           | 1,305.38<br>472.00     |                      |
| 11 41 23 00-0455 | EA  |     | 21" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>           | 1,332.97<br>472.00     |                      |
| 11 41 23 00-0456 | EA  |     | 21" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>           | 1,532.10<br>472.00     |                      |
| 11 41 23 00-0457 | EA  |     | 14" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 748.28<br>472.00       |                      |
| 11 41 23 00-0458 | EA  |     | 14" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 786.43<br>472.00       |                      |
| 11 41 23 00-0459 | EA  |     | 14" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 866.94<br>472.00       |                      |
| 11 41 23 00-0460 | EA  |     | 14" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 883.92<br>472.00       |                      |
| 11 41 23 00-0461 | EA  |     | 14" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,013.20<br>472.00     |                      |
| 11 41 23 00-0462 | EA  |     | 18" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 847.85<br>472.00       |                      |
| 11 41 23 00-0463 | EA  |     | 18" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 907.18<br>472.00       |                      |
| 11 41 23 00-0464 | EA  |     | 18" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,036.40<br>472.00     |                      |
| 11 41 23 00-0465 | EA  |     | 18" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,025.84<br>472.00     |                      |
| 11 41 23 00-0466 | EA  |     | 18" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,148.76<br>472.00     |                      |
| 11 41 23 00-0467 | EA  |     | 21" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 932.59<br>472.00       |                      |
| 11 41 23 00-0468 | EA  |     | 21" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 968.63<br>472.00       |                      |
| 11 41 23 00-0469 | EA  |     | 21" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,042.79<br>472.00     |                      |
| 11 41 23 00-0470 | EA  |     | 21" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,078.84<br>472.00     |                      |
| 11 41 23 00-0471 | EA  |     | 21" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i>          | 1,265.27<br>472.00     |                      |
| 11 41 23 00-0472 | EA  |     | 14" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,061.57<br>472.00     |                      |
| 11 41 23 00-0473 | EA  |     | 14" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,423.40<br>472.00     |                      |
| 11 41 23 00-0474 | EA  |     | 14" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,491.07<br>472.00     |                      |
| 11 41 23 00-0475 | EA  |     | 14" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,558.75<br>472.00     |                      |
| 11 41 23 00-0476 | EA  |     | 14" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 4,319.20<br>472.00     |                      |
| 11 41 23 00-0477 | EA  |     | 18" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,215.04<br>472.00     |                      |
| 11 41 23 00-0478 | EA  |     | 18" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,417.53<br>472.00     |                      |
| 11 41 23 00-0479 | EA  |     | 18" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,791.62<br>472.00     |                      |
| 11 41 23 00-0480 | EA  |     | 18" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,945.09<br>472.00     |                      |
| 11 41 23 00-0481 | EA  |     | 18" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 4,840.36<br>472.00     |                      |
| 11 41 23 00-0482 | EA  |     | 21" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,478.82<br>472.00     |                      |
| 11 41 23 00-0483 | EA  |     | 21" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 3,803.88<br>472.00     |                      |
| 11 41 23 00-0484 | EA  |     | 21" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 4,177.97<br>472.00     |                      |
| 11 41 23 00-0485 | EA  |     | 21" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 4,331.45<br>472.00     |                      |
| 11 41 23 00-0486 | EA  |     | 21" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts<br><i>For Cantilever Shelving, Add</i> | 5,520.87<br>472.00     |                      |

**11 41 31 Non-Refrigerated Storage Equipment** (11 41)

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 11 41 31 00-0001 |    |  | Wall Cabinets <small>(11 41 31)</small>                             |          |        |
| 11 41 31 00-0002 | EA |  | 48" Wall Cabinet With Sliding Doors<br>Note: 15" deep and 24" high. | 2,419.42 | 99.17  |
| 11 41 31 00-0003 | EA |  | 72" Wall Cabinet With Sliding Doors<br>Note: 15" deep and 24" high. | 3,192.37 | 130.93 |
| 11 41 31 00-0004 | EA |  | 72" Wall Cabinet With Hinged Doors<br>Note: 15" deep and 24" high.  | 3,664.16 | 150.10 |
| 11 41 31 00-0005 | EA |  | 72" Wall Cabinet With Open Shelves<br>Note: 15" deep and 24" high.  | 2,344.99 | 95.75  |
| 11 41 31 00-0006 |    |  | Mobile Sheet Pan Truck <small>(11 41 31)</small>                    |          |        |
| 11 41 31 00-0007 | EA |  | 2 Level Mobile Sheet Pan Truck                                      | 227.61   | 9.61   |



|              |                                      |
|--------------|--------------------------------------|
| <b>11</b>    | <b>Equipment</b>                     |
| <b>11 40</b> | <b>Foodservice Equipment</b>         |
| <b>11 41</b> | <b>Foodservice Storage Equipment</b> |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 11 41 31 00-0008 |     |     | <b>Pot And Utensil Rack</b> <small>(11 41 31)</small>   |                        |                      |
| 11 41 31 00-0009 | EA  |     | 70" Bench Type Pot And Utensil Rack.....  | 664.61                 | 29.29                |
| 11 41 31 00-0010 | EA  |     | 94" Bench Type Pot And Utensil Rack.....  | 769.91                 | 33.10                |
| 11 41 31 00-0011 | EA  |     | 94" Ceiling Type Pot And Utensil Rack.....  | 915.42                 | 39.65                |
| 11 41 31 00-0012 | EA  |     | 96" Wall Type Pot And Utensil Rack.....   | 497.87                 | 21.66                |
| 11 41 31 00-0013 |     |     | <b>Tray And Silverware Cart</b> <small>(11 41 31)</small>   |                        |                      |
| 11 41 31 00-0014 | EA  |     | 33" x 22-1/2" x 42" Tray And Silverware Cart.....   | 2,297.64               | 98.83                |
| 11 41 31 00-0015 |     |     | <b>Flat Top Utility Units</b> <small>(11 41 31)</small>   |                        |                      |
| 11 41 31 00-0016 | EA  |     | 39" x 28-1/2" x 35-3/8" Flat Top Utility Units.....   | 1,566.62               | 67.56                |
| 11 41 31 00-0017 | EA  |     | 79-1/2" x 28-1/2" x 35-3/8" Flat Top Utility Units.....   | 2,099.28               | 90.29                |
| 11 41 33         |     |     | <b>Foodservice Shelving</b> <small>(11 41)</small>  |                        |                      |
| 11 41 33 00-0001 |     |     | <b>Shelving/Racks</b> <small>(11 41 33)</small>   |                        |                      |
| 11 41 33 00-0002 |     |     | <b>Chrome Shelving Units</b> <small>(11 41 33 00-0001)</small>                                      |                        |                      |
| 11 41 33 00-0003 |     |     | <b>54" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit</b> <small>(11 41 33 00-0002)</small> |                        |                      |
| 11 41 33 00-0004 | EA  |     | 14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 348.10                 | 33.99                |
| 11 41 33 00-0005 | EA  |     | 14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 368.19                 | 34.27                |
| 11 41 33 00-0006 | EA  |     | 14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 393.15                 | 34.55                |
| 11 41 33 00-0007 | EA  |     | 14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 408.50                 | 34.84                |
| 11 41 33 00-0008 | EA  |     | 14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 438.18                 | 35.12                |
| 11 41 33 00-0009 | EA  |     | 14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 463.23                 | 35.40                |
| 11 41 33 00-0010 | EA  |     | 14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 483.33                 | 35.68                |
| 11 41 33 00-0011 | EA  |     | 14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 528.37                 | 36.24                |
| 11 41 33 00-0012 | EA  |     | 18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 382.62                 | 34.27                |
| 11 41 33 00-0013 | EA  |     | 18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 397.97                 | 34.55                |
| 11 41 33 00-0014 | EA  |     | 18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 413.34                 | 34.84                |
| 11 41 33 00-0015 | EA  |     | 18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 457.55                 | 35.12                |
| 11 41 33 00-0016 | EA  |     | 18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 487.32                 | 35.40                |
| 11 41 33 00-0017 | EA  |     | 18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 526.69                 | 35.68                |
| 11 41 33 00-0018 | EA  |     | 18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 541.94                 | 35.96                |
| 11 41 33 00-0019 | EA  |     | 18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 596.78                 | 36.52                |
| 11 41 33 00-0020 | EA  |     | 21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 402.81                 | 34.55                |
| 11 41 33 00-0021 | EA  |     | 21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 437.34                 | 34.84                |
| 11 41 33 00-0022 | EA  |     | 21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 462.39                 | 35.12                |
| 11 41 33 00-0023 | EA  |     | 21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 492.07                 | 35.40                |
| 11 41 33 00-0024 | EA  |     | 21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 512.26                 | 35.68                |
| 11 41 33 00-0025 | EA  |     | 21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 561.31                 | 35.96                |
| 11 41 33 00-0026 | EA  |     | 21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 586.24                 | 36.24                |
| 11 41 33 00-0027 | EA  |     | 21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 650.65                 | 36.80                |
| 11 41 33 00-0028 | EA  |     | 24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 447.12                 | 34.84                |
| 11 41 33 00-0029 | EA  |     | 24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 467.23                 | 35.12                |
| 11 41 33 00-0030 | EA  |     | 24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 482.48                 | 35.40                |
| 11 41 33 00-0031 | EA  |     | 24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 521.95                 | 35.68                |
| 11 41 33 00-0032 | EA  |     | 24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 546.88                 | 35.96                |
| 11 41 33 00-0033 | EA  |     | 24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 595.93                 | 36.24                |
| 11 41 33 00-0034 | EA  |     | 24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 630.45                 | 36.52                |
| 11 41 33 00-0035 | EA  |     | 24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 714.20                 | 37.08                |
| 11 41 33 00-0036 | EA  |     | 30" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 602.24                 | 35.12                |
| 11 41 33 00-0037 | EA  |     | 30" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 680.10                 | 35.40                |
| 11 41 33 00-0038 | EA  |     | 30" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 729.25                 | 35.68                |
| 11 41 33 00-0039 | EA  |     | 30" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 841.01                 | 35.96                |
| 11 41 33 00-0040 | EA  |     | 36" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 668.22                 | 36.24                |
| 11 41 33 00-0041 | EA  |     | 36" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 741.47                 | 36.52                |
| 11 41 33 00-0042 | EA  |     | 36" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 833.79                 | 36.80                |
| 11 41 33 00-0043 | EA  |     | 36" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....                    | 983.22                 | 37.36                |
| 11 41 33 00-0044 |     |     | <b>63" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit</b> <small>(11 41 33 00-0002)</small> |                        |                      |
| 11 41 33 00-0045 | EA  |     | 14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 352.85                 | 33.99                |
| 11 41 33 00-0046 | EA  |     | 14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 372.94                 | 34.27                |
| 11 41 33 00-0047 | EA  |     | 14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 397.87                 | 34.55                |
| 11 41 33 00-0048 | EA  |     | 14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 413.25                 | 34.84                |
| 11 41 33 00-0049 | EA  |     | 14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 442.92                 | 35.12                |
| 11 41 33 00-0050 | EA  |     | 14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 467.95                 | 35.40                |
| 11 41 33 00-0051 | EA  |     | 14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 488.07                 | 35.68                |
| 11 41 33 00-0052 | EA  |     | 14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 533.09                 | 36.24                |
| 11 41 33 00-0053 | EA  |     | 18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 387.34                 | 34.27                |
| 11 41 33 00-0054 | EA  |     | 18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 402.71                 | 34.55                |
| 11 41 33 00-0055 | EA  |     | 18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 418.09                 | 34.84                |
| 11 41 33 00-0056 | EA  |     | 18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 462.27                 | 35.12                |
| 11 41 33 00-0057 | EA  |     | 18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....                    | 492.07                 | 35.40                |



|                                      |              |
|--------------------------------------|--------------|
| <b>Equipment</b>                     | <b>11</b>    |
| <b>Foodservice Equipment</b>         | <b>11 40</b> |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 41 33 00-0058 EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 531.41                    | 35.68                   |
| 11 41 33 00-0059 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 546.68                    | 35.96                   |
| 11 41 33 00-0060 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 554.66                    | 36.52                   |
| 11 41 33 00-0061 EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 407.55                    | 34.55                   |
| 11 41 33 00-0062 EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 442.08                    | 34.84                   |
| 11 41 33 00-0063 EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 467.11                    | 35.12                   |
| 11 41 33 00-0064 EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 496.79                    | 35.40                   |
| 11 41 33 00-0065 EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 517.01                    | 35.68                   |
| 11 41 33 00-0066 EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 566.03                    | 35.96                   |
| 11 41 33 00-0067 EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 590.98                    | 36.24                   |
| 11 41 33 00-0068 EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 655.40                    | 36.80                   |
| 11 41 33 00-0069 EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 451.86                    | 34.84                   |
| 11 41 33 00-0070 EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 471.95                    | 35.12                   |
| 11 41 33 00-0071 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 487.22                    | 35.40                   |
| 11 41 33 00-0072 EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 526.69                    | 35.68                   |
| 11 41 33 00-0073 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 551.62                    | 35.96                   |
| 11 41 33 00-0074 EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 600.65                    | 36.24                   |
| 11 41 33 00-0075 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 635.17                    | 36.52                   |
| 11 41 33 00-0076 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 718.95                    | 37.08                   |
| 11 41 33 00-0077 EA 30" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 606.96                    | 35.12                   |
| 11 41 33 00-0078 EA 30" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 684.84                    | 35.40                   |
| 11 41 33 00-0079 EA 30" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 733.97                    | 35.68                   |
| 11 41 33 00-0080 EA 30" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 845.73                    | 35.96                   |
| 11 41 33 00-0081 EA 36" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 672.94                    | 36.24                   |
| 11 41 33 00-0082 EA 36" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 746.19                    | 36.52                   |
| 11 41 33 00-0083 EA 36" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 838.59                    | 36.80                   |
| 11 41 33 00-0084 EA 36" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....  | 987.94                    | 37.36                   |
| <b>11 41 33 00-0085 66" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)</b> |                           |                         |
| 11 41 33 00-0086 EA 14" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 355.32                    | 33.99                   |
| 11 41 33 00-0087 EA 14" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 375.41                    | 34.27                   |
| 11 41 33 00-0088 EA 14" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 400.34                    | 34.55                   |
| 11 41 33 00-0089 EA 14" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 415.72                    | 34.84                   |
| 11 41 33 00-0090 EA 14" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 445.39                    | 35.12                   |
| 11 41 33 00-0091 EA 14" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 470.42                    | 35.40                   |
| 11 41 33 00-0092 EA 14" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 490.54                    | 35.68                   |
| 11 41 33 00-0093 EA 14" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 535.56                    | 36.24                   |
| 11 41 33 00-0094 EA 18" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 389.84                    | 34.27                   |
| 11 41 33 00-0095 EA 18" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 405.18                    | 34.55                   |
| 11 41 33 00-0096 EA 18" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 420.56                    | 34.84                   |
| 11 41 33 00-0097 EA 18" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 464.76                    | 35.12                   |
| 11 41 33 00-0098 EA 18" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 494.54                    | 35.40                   |
| 11 41 33 00-0099 EA 18" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 533.88                    | 35.68                   |
| 11 41 33 00-0100 EA 18" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 549.15                    | 35.96                   |
| 11 41 33 00-0101 EA 18" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 603.99                    | 36.52                   |
| 11 41 33 00-0102 EA 21" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 410.02                    | 34.55                   |
| 11 41 33 00-0103 EA 21" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 444.55                    | 34.84                   |
| 11 41 33 00-0104 EA 21" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 469.58                    | 35.12                   |
| 11 41 33 00-0105 EA 21" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 499.26                    | 35.40                   |
| 11 41 33 00-0106 EA 21" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 519.48                    | 35.68                   |
| 11 41 33 00-0107 EA 21" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 568.50                    | 35.96                   |
| 11 41 33 00-0108 EA 21" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 593.46                    | 36.24                   |
| 11 41 33 00-0109 EA 21" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 657.87                    | 36.80                   |
| 11 41 33 00-0110 EA 24" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 454.33                    | 34.84                   |
| 11 41 33 00-0111 EA 24" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 474.42                    | 35.12                   |
| 11 41 33 00-0112 EA 24" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 489.69                    | 35.40                   |
| 11 41 33 00-0113 EA 24" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 529.16                    | 35.68                   |
| 11 41 33 00-0114 EA 24" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 554.09                    | 35.96                   |
| 11 41 33 00-0115 EA 24" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 603.14                    | 36.24                   |
| 11 41 33 00-0116 EA 24" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 637.64                    | 36.52                   |
| 11 41 33 00-0117 EA 24" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 721.42                    | 37.08                   |
| 11 41 33 00-0118 EA 30" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 609.43                    | 35.12                   |
| 11 41 33 00-0119 EA 30" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 687.31                    | 35.40                   |
| 11 41 33 00-0120 EA 30" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 736.47                    | 35.68                   |
| 11 41 33 00-0121 EA 30" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 848.20                    | 35.96                   |
| 11 41 33 00-0122 EA 36" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 675.41                    | 36.24                   |
| 11 41 33 00-0123 EA 36" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 748.66                    | 36.52                   |
| 11 41 33 00-0124 EA 36" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 841.03                    | 36.80                   |
| 11 41 33 00-0125 EA 36" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....  | 990.41                    | 37.36                   |
| <b>11 41 33 00-0126 74" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)</b> |                           |                         |
| 11 41 33 00-0127 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 362.51                    | 33.99                   |
| 11 41 33 00-0128 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 382.62                    | 34.27                   |
| 11 41 33 00-0129 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 407.55                    | 34.55                   |
| 11 41 33 00-0130 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 422.93                    | 34.84                   |
| 11 41 33 00-0131 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 452.61                    | 35.12                   |
| 11 41 33 00-0132 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 477.64                    | 35.40                   |
| 11 41 33 00-0133 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 497.76                    | 35.68                   |
| 11 41 33 00-0134 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....  | 542.78                    | 36.24                   |

**11 Equipment**  
**11 40 Foodservice Equipment**  
**11 41 Foodservice Storage Equipment**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 11 41 33 00-0135        | EA  |     | 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 397.03                 | 34.27                |
| 11 41 33 00-0136        | EA  |     | 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 412.40                 | 34.55                |
| 11 41 33 00-0137        | EA  |     | 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 427.77                 | 34.84                |
| 11 41 33 00-0138        | EA  |     | 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 471.95                 | 35.12                |
| 11 41 33 00-0139        | EA  |     | 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 501.73                 | 35.40                |
| 11 41 33 00-0140        | EA  |     | 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 541.10                 | 35.68                |
| 11 41 33 00-0141        | EA  |     | 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 556.37                 | 35.96                |
| 11 41 33 00-0142        | EA  |     | 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 611.18                 | 36.52                |
| 11 41 33 00-0143        | EA  |     | 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 417.24                 | 34.55                |
| 11 41 33 00-0144        | EA  |     | 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 451.77                 | 34.84                |
| 11 41 33 00-0145        | EA  |     | 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 476.80                 | 35.12                |
| 11 41 33 00-0146        | EA  |     | 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 506.47                 | 35.40                |
| 11 41 33 00-0147        | EA  |     | 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 526.69                 | 35.68                |
| 11 41 33 00-0148        | EA  |     | 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 575.71                 | 35.96                |
| 11 41 33 00-0149        | EA  |     | 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 600.65                 | 36.24                |
| 11 41 33 00-0150        | EA  |     | 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 665.08                 | 36.80                |
| 11 41 33 00-0151        | EA  |     | 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 461.55                 | 34.84                |
| 11 41 33 00-0152        | EA  |     | 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 481.64                 | 35.12                |
| 11 41 33 00-0153        | EA  |     | 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 496.91                 | 35.40                |
| 11 41 33 00-0154        | EA  |     | 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 536.35                 | 35.68                |
| 11 41 33 00-0155        | EA  |     | 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 561.31                 | 35.96                |
| 11 41 33 00-0156        | EA  |     | 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 610.33                 | 36.24                |
| 11 41 33 00-0157        | EA  |     | 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 644.86                 | 36.52                |
| 11 41 33 00-0158        | EA  |     | 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 728.63                 | 37.08                |
| 11 41 33 00-0159        | EA  |     | 30" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 616.65                 | 35.12                |
| 11 41 33 00-0160        | EA  |     | 30" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 694.53                 | 35.40                |
| 11 41 33 00-0161        | EA  |     | 30" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 743.66                 | 35.68                |
| 11 41 33 00-0162        | EA  |     | 30" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 855.42                 | 35.96                |
| 11 41 33 00-0163        | EA  |     | 36" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 682.63                 | 36.24                |
| 11 41 33 00-0164        | EA  |     | 36" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 755.87                 | 36.52                |
| 11 41 33 00-0165        | EA  |     | 36" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 848.27                 | 36.80                |
| 11 41 33 00-0166        | EA  |     | 36" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....     | 997.63                 | 37.36                |
| <b>11 41 33 00-0167</b> |     |     | <b>86" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)</b> |                        |                      |
| 11 41 33 00-0168        | EA  |     | 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 381.78                 | 33.99                |
| 11 41 33 00-0169        | EA  |     | 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 401.87                 | 34.27                |
| 11 41 33 00-0170        | EA  |     | 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 426.80                 | 34.55                |
| 11 41 33 00-0171        | EA  |     | 14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 442.18                 | 34.84                |
| 11 41 33 00-0172        | EA  |     | 14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 471.86                 | 35.12                |
| 11 41 33 00-0173        | EA  |     | 14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 496.91                 | 35.40                |
| 11 41 33 00-0174        | EA  |     | 14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 517.01                 | 35.68                |
| 11 41 33 00-0175        | EA  |     | 14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 562.05                 | 36.24                |
| 11 41 33 00-0176        | EA  |     | 18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 416.30                 | 34.27                |
| 11 41 33 00-0177        | EA  |     | 18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 431.64                 | 34.55                |
| 11 41 33 00-0178        | EA  |     | 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 447.02                 | 34.84                |
| 11 41 33 00-0179        | EA  |     | 18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 491.23                 | 35.12                |
| 11 41 33 00-0180        | EA  |     | 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 521.00                 | 35.40                |
| 11 41 33 00-0181        | EA  |     | 18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 560.37                 | 35.68                |
| 11 41 33 00-0182        | EA  |     | 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 575.62                 | 35.96                |
| 11 41 33 00-0183        | EA  |     | 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 630.45                 | 36.52                |
| 11 41 33 00-0184        | EA  |     | 21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 436.49                 | 34.55                |
| 11 41 33 00-0185        | EA  |     | 21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 471.02                 | 34.84                |
| 11 41 33 00-0186        | EA  |     | 21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 496.07                 | 35.12                |
| 11 41 33 00-0187        | EA  |     | 21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 525.72                 | 35.40                |
| 11 41 33 00-0188        | EA  |     | 21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 545.94                 | 35.68                |
| 11 41 33 00-0189        | EA  |     | 21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 594.99                 | 35.96                |
| 11 41 33 00-0190        | EA  |     | 21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 619.92                 | 36.24                |
| 11 41 33 00-0191        | EA  |     | 21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 684.33                 | 36.80                |
| 11 41 33 00-0192        | EA  |     | 24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 480.80                 | 34.84                |
| 11 41 33 00-0193        | EA  |     | 24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 500.89                 | 35.12                |
| 11 41 33 00-0194        | EA  |     | 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 516.16                 | 35.40                |
| 11 41 33 00-0195        | EA  |     | 24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 555.63                 | 35.68                |
| 11 41 33 00-0196        | EA  |     | 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 580.56                 | 35.96                |
| 11 41 33 00-0197        | EA  |     | 24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 629.60                 | 36.24                |
| 11 41 33 00-0198        | EA  |     | 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 664.11                 | 36.52                |
| 11 41 33 00-0199        | EA  |     | 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 747.88                 | 37.08                |
| 11 41 33 00-0200        | EA  |     | 30" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 635.90                 | 35.12                |
| 11 41 33 00-0201        | EA  |     | 30" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 713.78                 | 35.40                |
| 11 41 33 00-0202        | EA  |     | 30" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 762.93                 | 35.68                |
| 11 41 33 00-0203        | EA  |     | 30" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 874.66                 | 35.96                |
| 11 41 33 00-0204        | EA  |     | 36" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 701.88                 | 36.24                |
| 11 41 33 00-0205        | EA  |     | 36" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 775.12                 | 36.52                |
| 11 41 33 00-0206        | EA  |     | 36" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 867.54                 | 36.80                |
| 11 41 33 00-0207        | EA  |     | 36" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit.....     | 1,016.88               | 37.36                |
| <b>11 41 33 00-0208</b> |     |     | <b>96" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)</b> |                        |                      |
| 11 41 33 00-0209        | EA  |     | 14" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....     | 452.91                 | 33.99                |
| 11 41 33 00-0210        | EA  |     | 14" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....     | 477.81                 | 34.27                |
| 11 41 33 00-0211        | EA  |     | 14" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....     | 508.78                 | 34.55                |



|                                      |              |
|--------------------------------------|--------------|
| <b>Equipment</b>                     | <b>11</b>    |
| <b>Foodservice Equipment</b>         | <b>11 40</b> |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 11 41 33 00-0212        | EA  |     | 14" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 527.78                 | 34.84                |
| 11 41 33 00-0213        | EA  |     | 14" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 564.67                 | 35.12                |
| 11 41 33 00-0214        | EA  |     | 14" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 595.77                 | 35.40                |
| 11 41 33 00-0215        | EA  |     | 14" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 620.68                 | 35.68                |
| 11 41 33 00-0216        | EA  |     | 14" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 676.56                 | 36.24                |
| 11 41 33 00-0217        | EA  |     | 18" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 495.84                 | 34.27                |
| 11 41 33 00-0218        | EA  |     | 18" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 514.83                 | 34.55                |
| 11 41 33 00-0219        | EA  |     | 18" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 533.82                 | 34.84                |
| 11 41 33 00-0220        | EA  |     | 18" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 588.86                 | 35.12                |
| 11 41 33 00-0221        | EA  |     | 18" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 625.88                 | 35.40                |
| 11 41 33 00-0222        | EA  |     | 18" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 674.88                 | 35.68                |
| 11 41 33 00-0223        | EA  |     | 18" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 693.72                 | 35.96                |
| 11 41 33 00-0224        | EA  |     | 18" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 761.84                 | 36.52                |
| 11 41 33 00-0225        | EA  |     | 21" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 520.89                 | 34.55                |
| 11 41 33 00-0226        | EA  |     | 21" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 563.83                 | 34.84                |
| 11 41 33 00-0227        | EA  |     | 21" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 594.93                 | 35.12                |
| 11 41 33 00-0228        | EA  |     | 21" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 631.79                 | 35.40                |
| 11 41 33 00-0229        | EA  |     | 21" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 656.86                 | 35.68                |
| 11 41 33 00-0230        | EA  |     | 21" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 717.94                 | 35.96                |
| 11 41 33 00-0231        | EA  |     | 21" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 748.91                 | 36.24                |
| 11 41 33 00-0232        | EA  |     | 21" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 829.00                 | 36.80                |
| 11 41 33 00-0233        | EA  |     | 24" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 576.06                 | 34.84                |
| 11 41 33 00-0234        | EA  |     | 24" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 600.97                 | 35.12                |
| 11 41 33 00-0235        | EA  |     | 24" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 619.83                 | 35.40                |
| 11 41 33 00-0236        | EA  |     | 24" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 668.96                 | 35.68                |
| 11 41 33 00-0237        | EA  |     | 24" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 699.91                 | 35.96                |
| 11 41 33 00-0238        | EA  |     | 24" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 760.99                 | 36.24                |
| 11 41 33 00-0239        | EA  |     | 24" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 803.93                 | 36.52                |
| 11 41 33 00-0240        | EA  |     | 24" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 908.23                 | 37.08                |
| 11 41 33 00-0241        | EA  |     | 30" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 769.73                 | 35.12                |
| 11 41 33 00-0242        | EA  |     | 30" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 866.86                 | 35.40                |
| 11 41 33 00-0243        | EA  |     | 30" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 928.07                 | 35.68                |
| 11 41 33 00-0244        | EA  |     | 30" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 1,067.57               | 35.96                |
| 11 41 33 00-0245        | EA  |     | 36" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 851.36                 | 36.24                |
| 11 41 33 00-0246        | EA  |     | 36" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 942.71                 | 36.52                |
| 11 41 33 00-0247        | EA  |     | 36" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 1,058.00               | 36.80                |
| 11 41 33 00-0248        | EA  |     | 36" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....                        | 1,244.26               | 37.36                |
| <b>11 41 33 00-0249</b> |     |     | <b>Galvanized Shelving Units</b> <small>(11 41 33 00-0001)</small>                                      |                        |                      |
| <b>11 41 33 00-0250</b> |     |     | <b>54" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit</b> <small>(11 41 33 00-0249)</small> |                        |                      |
| 11 41 33 00-0251        | EA  |     | 14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 397.23                 | 33.99                |
| 11 41 33 00-0252        | EA  |     | 14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 418.74                 | 34.27                |
| 11 41 33 00-0253        | EA  |     | 14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 445.52                 | 34.55                |
| 11 41 33 00-0254        | EA  |     | 14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 467.04                 | 34.84                |
| 11 41 33 00-0255        | EA  |     | 14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 499.00                 | 35.12                |
| 11 41 33 00-0256        | EA  |     | 14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 525.67                 | 35.40                |
| 11 41 33 00-0257        | EA  |     | 14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 552.46                 | 35.68                |
| 11 41 33 00-0258        | EA  |     | 14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 595.47                 | 36.24                |
| 11 41 33 00-0259        | EA  |     | 18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 434.25                 | 34.27                |
| 11 41 33 00-0260        | EA  |     | 18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 450.70                 | 34.55                |
| 11 41 33 00-0261        | EA  |     | 18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 482.55                 | 34.84                |
| 11 41 33 00-0262        | EA  |     | 18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 519.67                 | 35.12                |
| 11 41 33 00-0263        | EA  |     | 18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 551.61                 | 35.40                |
| 11 41 33 00-0264        | EA  |     | 18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 593.79                 | 35.68                |
| 11 41 33 00-0265        | EA  |     | 18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 625.76                 | 35.96                |
| 11 41 33 00-0266        | EA  |     | 18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 674.13                 | 36.52                |
| 11 41 33 00-0267        | EA  |     | 21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 455.86                 | 34.55                |
| 11 41 33 00-0268        | EA  |     | 21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 498.16                 | 34.84                |
| 11 41 33 00-0269        | EA  |     | 21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 524.83                 | 35.12                |
| 11 41 33 00-0270        | EA  |     | 21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 556.79                 | 35.40                |
| 11 41 33 00-0271        | EA  |     | 21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 578.31                 | 35.68                |
| 11 41 33 00-0272        | EA  |     | 21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 636.09                 | 35.96                |
| 11 41 33 00-0273        | EA  |     | 21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 662.87                 | 36.24                |
| 11 41 33 00-0274        | EA  |     | 21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 742.19                 | 36.80                |
| 11 41 33 00-0275        | EA  |     | 24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 508.50                 | 34.84                |
| 11 41 33 00-0276        | EA  |     | 24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 530.00                 | 35.12                |
| 11 41 33 00-0277        | EA  |     | 24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 546.46                 | 35.40                |
| 11 41 33 00-0278        | EA  |     | 24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 588.64                 | 35.68                |
| 11 41 33 00-0279        | EA  |     | 24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 636.09                 | 35.96                |
| 11 41 33 00-0280        | EA  |     | 24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 688.70                 | 36.24                |
| 11 41 33 00-0281        | EA  |     | 24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 731.00                 | 36.52                |
| 11 41 33 00-0282        | EA  |     | 24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 825.91                 | 37.08                |
| <b>11 41 33 00-0283</b> |     |     | <b>63" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit</b> <small>(11 41 33 00-0249)</small> |                        |                      |
| 11 41 33 00-0284        | EA  |     | 14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 407.57                 | 33.99                |
| 11 41 33 00-0285        | EA  |     | 14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 429.07                 | 34.27                |
| 11 41 33 00-0286        | EA  |     | 14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 455.86                 | 34.55                |
| 11 41 33 00-0287        | EA  |     | 14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....                    | 477.37                 | 34.84                |

|              |                                      |
|--------------|--------------------------------------|
| <b>11</b>    | <b>Equipment</b>                     |
| <b>11 40</b> | <b>Foodservice Equipment</b>         |
| <b>11 41</b> | <b>Foodservice Storage Equipment</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |        |       |
|------------------|--|--------|-------|
| 11 41 33 00-0288 | EA 14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 509.34 | 35.12 |
| 11 41 33 00-0289 | EA 14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 536.00 | 35.40 |
| 11 41 33 00-0290 | EA 14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 562.79 | 35.68 |
| 11 41 33 00-0291 | EA 14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 605.81 | 36.24 |
| 11 41 33 00-0292 | EA 18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 444.59 | 34.27 |
| 11 41 33 00-0293 | EA 18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 461.04 | 34.55 |
| 11 41 33 00-0294 | EA 18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 492.89 | 34.84 |
| 11 41 33 00-0295 | EA 18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 530.00 | 35.12 |
| 11 41 33 00-0296 | EA 18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 561.94 | 35.40 |
| 11 41 33 00-0297 | EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 604.13 | 35.68 |
| 11 41 33 00-0298 | EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 636.09 | 35.96 |
| 11 41 33 00-0299 | EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 684.39 | 36.52 |
| 11 41 33 00-0300 | EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 466.19 | 34.55 |
| 11 41 33 00-0301 | EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 508.50 | 34.84 |
| 11 41 33 00-0302 | EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 535.16 | 35.12 |
| 11 41 33 00-0303 | EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 567.12 | 35.40 |
| 11 41 33 00-0304 | EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 588.64 | 35.68 |
| 11 41 33 00-0305 | EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 646.42 | 35.96 |
| 11 41 33 00-0306 | EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 673.21 | 36.24 |
| 11 41 33 00-0307 | EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 752.52 | 36.80 |
| 11 41 33 00-0308 | EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 518.83 | 34.84 |
| 11 41 33 00-0309 | EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 540.34 | 35.12 |
| 11 41 33 00-0310 | EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 556.79 | 35.40 |
| 11 41 33 00-0311 | EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 598.97 | 35.68 |
| 11 41 33 00-0312 | EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 646.42 | 35.96 |
| 11 41 33 00-0313 | EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 699.03 | 36.24 |
| 11 41 33 00-0314 | EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 741.34 | 36.52 |
| 11 41 33 00-0315 | EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit | 836.25 | 37.08 |

### 11 41 33 00-0316 74" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

|                  |  |        |       |
|------------------|--|--------|-------|
| 11 41 33 00-0317 | EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 417.90 | 33.99 |
| 11 41 33 00-0318 | EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 439.41 | 34.27 |
| 11 41 33 00-0319 | EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 466.19 | 34.55 |
| 11 41 33 00-0320 | EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 487.71 | 34.84 |
| 11 41 33 00-0321 | EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 519.67 | 35.12 |
| 11 41 33 00-0322 | EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 546.33 | 35.40 |
| 11 41 33 00-0323 | EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 573.13 | 35.68 |
| 11 41 33 00-0324 | EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 616.14 | 36.24 |
| 11 41 33 00-0325 | EA 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 454.92 | 34.27 |
| 11 41 33 00-0326 | EA 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 471.37 | 34.55 |
| 11 41 33 00-0327 | EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 503.22 | 34.84 |
| 11 41 33 00-0328 | EA 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 540.34 | 35.12 |
| 11 41 33 00-0329 | EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 572.28 | 35.40 |
| 11 41 33 00-0330 | EA 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 614.46 | 35.68 |
| 11 41 33 00-0331 | EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 646.42 | 35.96 |
| 11 41 33 00-0332 | EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 694.72 | 36.52 |
| 11 41 33 00-0333 | EA 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 476.52 | 34.55 |
| 11 41 33 00-0334 | EA 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 518.83 | 34.84 |
| 11 41 33 00-0335 | EA 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 545.49 | 35.12 |
| 11 41 33 00-0336 | EA 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 577.46 | 35.40 |
| 11 41 33 00-0337 | EA 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 598.97 | 35.68 |
| 11 41 33 00-0338 | EA 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 656.76 | 35.96 |
| 11 41 33 00-0339 | EA 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 683.54 | 36.24 |
| 11 41 33 00-0340 | EA 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 762.85 | 36.80 |
| 11 41 33 00-0341 | EA 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 529.16 | 34.84 |
| 11 41 33 00-0342 | EA 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 550.67 | 35.12 |
| 11 41 33 00-0343 | EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 567.12 | 35.40 |
| 11 41 33 00-0344 | EA 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 609.31 | 35.68 |
| 11 41 33 00-0345 | EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 656.76 | 35.96 |
| 11 41 33 00-0346 | EA 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 709.36 | 36.24 |
| 11 41 33 00-0347 | EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 751.67 | 36.52 |
| 11 41 33 00-0348 | EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit | 846.58 | 37.08 |

### 11 41 33 00-0349 86" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

|                  |  |        |       |
|------------------|--|--------|-------|
| 11 41 33 00-0350 | EA 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 443.84 | 33.99 |
| 11 41 33 00-0351 | EA 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 465.35 | 34.27 |
| 11 41 33 00-0352 | EA 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 492.14 | 34.55 |
| 11 41 33 00-0353 | EA 14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 513.65 | 34.84 |
| 11 41 33 00-0354 | EA 14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 545.62 | 35.12 |
| 11 41 33 00-0355 | EA 14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 572.28 | 35.40 |
| 11 41 33 00-0356 | EA 14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 599.07 | 35.68 |
| 11 41 33 00-0357 | EA 14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 642.08 | 36.24 |
| 11 41 33 00-0358 | EA 18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 480.86 | 34.27 |
| 11 41 33 00-0359 | EA 18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 497.31 | 34.55 |
| 11 41 33 00-0360 | EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 529.16 | 34.84 |
| 11 41 33 00-0361 | EA 18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 566.28 | 35.12 |
| 11 41 33 00-0362 | EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 598.22 | 35.40 |
| 11 41 33 00-0363 | EA 18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 640.40 | 35.68 |
| 11 41 33 00-0364 | EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit | 672.37 | 35.96 |



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ⇩ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 11 41 33 00-0365 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 720.67                    | 36.52                   |
| 11 41 33 00-0366 EA 21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 502.47                    | 34.55                   |
| 11 41 33 00-0367 EA 21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 544.78                    | 34.84                   |
| 11 41 33 00-0368 EA 21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 571.44                    | 35.12                   |
| 11 41 33 00-0369 EA 21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 603.40                    | 35.40                   |
| 11 41 33 00-0370 EA 21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 624.92                    | 35.68                   |
| 11 41 33 00-0371 EA 21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 682.70                    | 35.96                   |
| 11 41 33 00-0372 EA 21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 709.49                    | 36.24                   |
| 11 41 33 00-0373 EA 21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 788.80                    | 36.80                   |
| 11 41 33 00-0374 EA 24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 555.11                    | 34.84                   |
| 11 41 33 00-0375 EA 24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 576.62                    | 35.12                   |
| 11 41 33 00-0376 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 593.07                    | 35.40                   |
| 11 41 33 00-0377 EA 24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 635.25                    | 35.68                   |
| 11 41 33 00-0378 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 682.70                    | 35.96                   |
| 11 41 33 00-0379 EA 24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 735.31                    | 36.24                   |
| 11 41 33 00-0380 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 777.61                    | 36.52                   |
| 11 41 33 00-0381 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....       | 872.52                    | 37.08                   |
| <b>11 41 33 00-0382 54" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)</b>          |                           |                         |
| 11 41 33 00-0383 EA 18" x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 777.71                    | 34.84                   |
| 11 41 33 00-0384 EA 18" x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 857.10                    | 35.40                   |
| 11 41 33 00-0385 EA 18" x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 962.34                    | 35.96                   |
| 11 41 33 00-0386 EA 18" x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,026.16                  | 36.52                   |
| 11 41 33 00-0387 EA 24" x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 851.84                    | 35.40                   |
| 11 41 33 00-0388 EA 24" x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 988.19                    | 35.96                   |
| 11 41 33 00-0389 EA 24" x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,093.43                  | 36.52                   |
| 11 41 33 00-0390 EA 24" x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,250.44                  | 37.08                   |
| <b>11 41 33 00-0391 63" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)</b>          |                           |                         |
| 11 41 33 00-0392 EA 18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 788.04                    | 34.84                   |
| 11 41 33 00-0393 EA 18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 867.45                    | 35.40                   |
| 11 41 33 00-0394 EA 18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 972.68                    | 35.96                   |
| 11 41 33 00-0395 EA 18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,036.49                  | 36.52                   |
| 11 41 33 00-0396 EA 24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 862.18                    | 35.40                   |
| 11 41 33 00-0397 EA 24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 998.52                    | 35.96                   |
| 11 41 33 00-0398 EA 24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,103.77                  | 36.52                   |
| 11 41 33 00-0399 EA 24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,260.78                  | 37.08                   |
| <b>11 41 33 00-0400 74" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)</b>          |                           |                         |
| 11 41 33 00-0401 EA 18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 798.37                    | 34.84                   |
| 11 41 33 00-0402 EA 18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 877.79                    | 35.40                   |
| 11 41 33 00-0403 EA 18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 983.03                    | 35.96                   |
| 11 41 33 00-0404 EA 18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,046.82                  | 36.52                   |
| 11 41 33 00-0405 EA 24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 872.51                    | 35.40                   |
| 11 41 33 00-0406 EA 24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,008.86                  | 35.96                   |
| 11 41 33 00-0407 EA 24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,114.10                  | 36.52                   |
| 11 41 33 00-0408 EA 24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,271.14                  | 37.08                   |
| <b>11 41 33 00-0409 86" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)</b>          |                           |                         |
| 11 41 33 00-0410 EA 18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 824.32                    | 34.84                   |
| 11 41 33 00-0411 EA 18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 903.71                    | 35.40                   |
| 11 41 33 00-0412 EA 18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,008.95                  | 35.96                   |
| 11 41 33 00-0413 EA 18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,072.77                  | 36.52                   |
| 11 41 33 00-0414 EA 24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 898.46                    | 35.40                   |
| 11 41 33 00-0415 EA 24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,034.80                  | 35.96                   |
| 11 41 33 00-0416 EA 24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,140.04                  | 36.52                   |
| 11 41 33 00-0417 EA 24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....           | 1,297.06                  | 37.08                   |
| <b>11 41 33 00-0418 Stainless Steel Shelving Unit (11 41 33 00-0001)</b>                                       |                           |                         |
| <b>11 41 33 00-0419 63" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)</b> |                           |                         |
| 11 41 33 00-0420 EA 18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,001.75                  | 34.84                   |
| 11 41 33 00-0421 EA 18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,172.80                  | 35.40                   |
| 11 41 33 00-0422 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,389.13                  | 35.96                   |
| 11 41 33 00-0423 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,615.73                  | 36.52                   |
| 11 41 33 00-0424 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,187.18                  | 35.40                   |
| 11 41 33 00-0425 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,383.48                  | 35.96                   |
| 11 41 33 00-0426 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,640.98                  | 36.52                   |
| 11 41 33 00-0427 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,981.31                  | 37.08                   |
| <b>11 41 33 00-0428 74" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)</b> |                           |                         |
| 11 41 33 00-0429 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,037.79                  | 34.84                   |
| 11 41 33 00-0430 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit.....  | 1,208.84                  | 35.40                   |

**11 Equipment****11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 11 41 33 00-0431 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,430.30                  | 35.96                   |
| 11 41 33 00-0432 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,651.75                  | 36.52                   |
| 11 41 33 00-0433 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,223.22                  | 35.40                   |
| 11 41 33 00-0434 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,419.50                  | 35.96                   |
| 11 41 33 00-0435 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,677.00                  | 36.52                   |
| 11 41 33 00-0436 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 2,017.35                  | 37.08                   |
| <b>11 41 33 00-0437 86" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)</b> |                           |                         |
| 11 41 33 00-0438 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,073.81                  | 34.84                   |
| 11 41 33 00-0439 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,244.86                  | 35.40                   |
| 11 41 33 00-0440 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,466.32                  | 35.96                   |
| 11 41 33 00-0441 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,687.79                  | 36.52                   |
| 11 41 33 00-0442 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,259.24                  | 35.40                   |
| 11 41 33 00-0443 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,455.54                  | 35.96                   |
| 11 41 33 00-0444 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 1,713.04                  | 36.52                   |
| 11 41 33 00-0445 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit ..... | 2,053.37                  | 37.08                   |
| <b>11 41 33 00-0446 63" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)</b>     |                           |                         |
| 11 41 33 00-0447 EA 18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 1,673.53                  | 34.84                   |
| 11 41 33 00-0448 EA 18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 1,853.65                  | 35.40                   |
| 11 41 33 00-0449 EA 18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,093.01                  | 35.96                   |
| 11 41 33 00-0450 EA 18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,237.30                  | 36.52                   |
| 11 41 33 00-0451 EA 24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,011.69                  | 35.40                   |
| 11 41 33 00-0452 EA 24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,375.84                  | 35.96                   |
| 11 41 33 00-0453 EA 24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,641.24                  | 36.52                   |
| 11 41 33 00-0454 EA 24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 3,038.47                  | 37.08                   |
| <b>11 41 33 00-0455 74" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)</b>     |                           |                         |
| 11 41 33 00-0456 EA 18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 1,725.29                  | 34.84                   |
| 11 41 33 00-0457 EA 18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 1,908.56                  | 35.40                   |
| 11 41 33 00-0458 EA 18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,152.16                  | 35.96                   |
| 11 41 33 00-0459 EA 18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,298.91                  | 36.52                   |
| 11 41 33 00-0460 EA 24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,063.48                  | 35.40                   |
| 11 41 33 00-0461 EA 24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,427.61                  | 35.96                   |
| 11 41 33 00-0462 EA 24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,695.93                  | 36.52                   |
| 11 41 33 00-0463 EA 24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 3,097.63                  | 37.08                   |
| <b>11 41 33 00-0464 86" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)</b>     |                           |                         |
| 11 41 33 00-0465 EA 18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 1,777.08                  | 34.84                   |
| 11 41 33 00-0466 EA 18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 1,959.34                  | 35.40                   |
| 11 41 33 00-0467 EA 18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,201.67                  | 35.96                   |
| 11 41 33 00-0468 EA 18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,347.73                  | 36.52                   |
| 11 41 33 00-0469 EA 24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,115.25                  | 35.40                   |
| 11 41 33 00-0470 EA 24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,479.40                  | 35.96                   |
| 11 41 33 00-0471 EA 24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 2,746.05                  | 36.52                   |
| 11 41 33 00-0472 EA 24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit .....     | 3,145.15                  | 37.08                   |
| <b>11 41 33 00-0473 Galvanized Steel Dunnage Rack (11 41 33 00-0001)</b>                                       |                           |                         |
| 11 41 33 00-0474 EA 18" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 258.64                    | 25.06                   |
| 11 41 33 00-0475 EA 18" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 272.80                    | 25.75                   |
| 11 41 33 00-0476 EA 18" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 288.97                    | 26.45                   |
| 11 41 33 00-0477 EA 18" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 319.20                    | 27.15                   |
| 11 41 33 00-0478 EA 18" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 345.39                    | 27.84                   |
| 11 41 33 00-0479 EA 24" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 278.72                    | 25.06                   |
| 11 41 33 00-0480 EA 24" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 304.93                    | 25.75                   |
| 11 41 33 00-0481 EA 24" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 321.10                    | 26.45                   |
| 11 41 33 00-0482 EA 24" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 349.32                    | 27.15                   |
| 11 41 33 00-0483 EA 24" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack .....                       | 381.54                    | 27.84                   |
| <b>11 41 33 00-0484 Stainless Steel Dunnage Rack (11 41 33 00-0001)</b>  |                           |                         |
| 11 41 33 00-0485 EA 18" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack .....              | 707.48                    | 26.45                   |
| 11 41 33 00-0486 EA 18" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack .....              | 888.95                    | 27.15                   |
| 11 41 33 00-0487 EA 18" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack .....              | 1,508.10                  | 27.84                   |
| 11 41 33 00-0488 EA 24" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack .....              | 774.63                    | 26.45                   |
| 11 41 33 00-0489 EA 24" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack .....              | 966.71                    | 27.15                   |
| 11 41 33 00-0490 EA 24" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack .....              | 1,645.34                  | 27.84                   |
| <b>11 41 33 00-0491 Mobile Racks (11 41 33 00-0001)</b>  |                           |                         |
| 11 41 33 00-0492 EA Mobile Rack With Pan Slide .....   | 1,919.30                  | 42.18                   |
| <b>11 41 33 00-0493 Can Racks (11 41 33 00-0001)</b>   |                           |                         |



|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Equipment</b>                     | <b>11</b>    |   |
| <b>Foodservice Equipment</b>         | <b>11 40</b> | ⇅ |
| <b>Foodservice Storage Equipment</b> | <b>11 41</b> |   |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |    |   |          |       |
|------------------|----|---|----------|-------|
| 11 41 33 00-0494 | EA | 27-1/4" Wide x 42" Deep x 81-1/16" High, Aluminum Frame Can Rack<br>Note: 156 #10 cans capacity | 4,015.04 | 42.18 |
|------------------|----|---|----------|-------|

**11 42 Food Preparation Equipment** <sup>(11 40)</sup>

**11 42 13 Food Preparation Appliances** <sup>(11 42)</sup>

**11 42 13 00-0001 Vertical Cutter Mixers** <sup>(11 42 13)</sup>

|                  |    |                              |           |        |
|------------------|----|------------------------------|-----------|--------|
| 11 42 13 00-0002 | EA | Bench Type Mixers, 25 Quart  | 11,389.91 | 276.04 |
| 11 42 13 00-0003 | EA | Bench Type Mixers, 40 Quart  | 13,163.97 | 306.71 |
| 11 42 13 00-0004 | EA | Bench Type Mixers, 80 Quart  | 16,366.61 | 441.67 |
| 11 42 13 00-0005 | EA | Bench Type Mixers, 130 Quart | 18,307.82 | 552.08 |

**11 42 13 00-0006 Choppers** <sup>(11 42 13)</sup>

|                  |    |                                   |          |        |
|------------------|----|-----------------------------------|----------|--------|
| 11 42 13 00-0007 | EA | Choppers, 5 LB                    | 2,932.91 | 245.37 |
| 11 42 13 00-0008 | EA | Choppers, 16 LB                   | 4,296.45 | 318.98 |
| 11 42 13 00-0009 | EA | Choppers, 35 LB - 40 LB           | 8,216.52 | 392.59 |
| 11 42 13 00-0010 | EA | Choppers, 35 LB - 40 LB/Min, 2 HP | 6,800.66 | 348.79 |
| 11 42 13 00-0011 | EA | Choppers, 35 LB - 40 LB/Min, 3 HP | 7,698.46 | 348.79 |

**11 42 13 00-0012 Stand Model Mixer** <sup>(11 42 13)</sup>

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 11 42 13 00-0013 | EA | 10 Quart, 120 Volt, 3/4 HP, Gear-Driven Commercial Planetary Stand Mixer With Guard (Avantco MX10)                            | 1,354.04 | 101.22 |
| 11 42 13 00-0014 | EA | 20 Quart, 120 Volt, 1-1/2 HP, Gear-Driven Commercial Planetary Stand Mixer With Guard (Avantco MX20)                          | 1,683.54 | 101.22 |
| 11 42 13 00-0015 | EA | 10 Quart, 120 Volt, 1/3 HP, Gear-Driven Commercial Planetary Stand Mixer With Guard (Globe SP10)                              | 4,438.11 | 101.22 |
| 11 42 13 00-0016 | EA | 20 Quart, 240 Voltage, 1/2 HP, Gear-Driven Commercial Planetary Stand Mixer With Stainless Steel Bowl Guard (Hobart HL-200-1) | 9,391.40 | 116.55 |

**11 42 13 00-0017 Floor Model Mixer** <sup>(11 42 13)</sup>

|                  |    |   |           |        |
|------------------|----|---|-----------|--------|
| 11 42 13 00-0018 | EA | 30 Quart, 120 Voltage, 1-3/4 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Avantco MX30)        | 3,495.75  | 101.22 |
| 11 42 13 00-0019 | EA | 40 Quart, 240 Voltage, 2 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Avantco MX40)            | 4,836.25  | 112.49 |
| 11 42 13 00-0020 | EA | 60 Quart, 240 Voltage, 2-1/2 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Avantco MX60)        | 8,324.03  | 126.54 |
| 11 42 13 00-0021 | EA | 30 Quart, 240 Voltage, 3/4 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-300-1)       | 17,830.73 | 116.55 |
| 11 42 13 00-0022 | EA | 40 Quart, 240 Voltage, 1-1/2 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-400-1)     | 21,886.89 | 119.62 |
| 11 42 13 00-0023 | EA | 60 Quart, 220-240 Voltage, 2-3/4 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-600-1) | 27,869.82 | 122.69 |
| 11 42 13 00-0024 | EA | 80 Quart, 220-240 Voltage, 3 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL800-1)      | 41,151.77 | 153.35 |
| 11 42 13 00-0025 | EA | 140 Quart, 220-240 Voltage, 5 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-1400-1)   | 52,713.80 | 196.30 |

**11 42 13 00-0026 Slicers** <sup>(11 42 13)</sup>

|                  |    |   |          |       |
|------------------|----|---|----------|-------|
| 11 42 13 00-0027 | EA | 1/3 HP, 12" Manual Gravity Feed Meat Slicer (Avantco SL312)                           | 665.62   | 31.64 |
| 11 42 13 00-0028 | EA | 1/2 HP, 12" Manual Gravity Feed Meat Slicer (Avantco SL512)                           | 965.61   | 31.64 |
| 11 42 13 00-0029 | EA | 1/2 HP, 13" Medium-Duty Manual Gravity Feed Meat Slicer (Avantco SL713MAN)            | 1,387.26 | 31.64 |
| 11 42 13 00-0030 | EA | 1/2 HP, 12" Medium-Duty Automatic Meat Slicer With Manual Use Option (Avantco SL612A) | 2,351.03 | 31.64 |
| 11 42 13 00-0031 | EA | 3/4 HP, 13" Medium-Duty Automatic Meat Slicer With Manual Use Option (Avantco SL713A) | 2,591.98 | 31.64 |
| 11 42 13 00-0032 | EA | 1/2 HP, 13" Heavy-Duty Automatic Gravity Feed Meat Slicer (Hobart EDGE13A-11)         | 6,792.03 | 31.64 |

**11 42 13 00-0033 Peelers** <sup>(11 42 13)</sup>

|                  |    |   |           |        |
|------------------|----|---|-----------|--------|
| 11 42 13 00-0034 | EA | 22 Lb, 120 Voltage, Potato Peeler (Sammic PI-10)  | 3,744.34  | 199.36 |
| 11 42 13 00-0035 | EA | 44 Lb, 120 Voltage, Potato Peeler (Sammic PI-20)  | 4,328.69  | 232.49 |
| 11 42 13 00-0036 | EA | 66 Lb, 120 Voltage, Potato Peeler (Sammic PI-30)  | 6,681.08  | 265.86 |
| 11 42 13 00-0037 | EA | 20 Lb, 115 Voltage, Potato Peeler (Hobart 6115)   | 5,950.36  | 199.36 |
| 11 42 13 00-0038 | EA | 40 Lb, 115 Voltage, Potato Peeler (Hobart 6430-1) | 12,014.96 | 232.49 |
| 11 42 13 00-0039 | EA | 60 Lb, 115 Voltage, Potato Peeler (Hobart 6460-1) | 12,798.54 | 265.86 |

**11 42 13 00-0040 Proof Boxes** <sup>(11 42 13)</sup>

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 11 42 13 00-0041 | EA | 30-1/2" x 22-1/2", Stainless Steel Proof Box | 3,581.41 | 98.83  |
| 11 42 13 00-0042 | EA | 30-1/2" x 45", Stainless Steel Proof Box     | 5,992.86 | 165.63 |
| 11 42 13 00-0043 | EA | 30-1/2" x 45", Galvanized Proof Box          | 3,333.32 | 75.19  |

**11 42 13 00-0044 Non-Insulated Heated Proof Cabinet** <sup>(11 42 13)</sup>

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 11 42 13 00-0045 | EA | Angle Slide 69-3/4", Solid Door Non-Insulated Heated Proof Cabinet   | 2,191.84 | 94.71  |
| 11 42 13 00-0046 | EA | Angle Slide 69-3/4", Clear Door Non-Insulated Heated Proof Cabinet   | 2,351.14 | 101.27 |
| 11 42 13 00-0047 | EA | Channel Slide 69-3/4", Solid Door Non-Insulated Heated Proof Cabinet | 2,176.95 | 93.95  |
| 11 42 13 00-0048 | EA | Channel Slide 69-3/4", Clear Door Non-Insulated Heated Proof Cabinet | 2,307.28 | 99.59  |



|           |   |
|-----------|---|
| <b>11</b> | <b>11 Equipment</b>                     |
|           | <b>11 40 Foodservice Equipment</b>      |
|           | <b>11 42 Food Preparation Equipment</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>11 42 13 00-0049 Insulated Heated Proof Cabinet</b> <small>(11 42 13)</small>  |                           |                         |
| 11 42 13 00-0050 EA 3 Spacing, 69-3/4" High Solid Door Insulated Heated Proof Cabinet.....                                    | 3,540.81                  | 145.28                  |
| 11 42 13 00-0051 EA 3 Spacing 69-3/4" High Sliding Door Insulated Heated Proof Cabinet.....                                   | 3,700.21                  | 151.87                  |
| <b>11 42 13 00-0052 Pass-Thru Hot Food Holding Cabinet</b> <small>(11 42 13)</small>  |                           |                         |
| 11 42 13 00-0053 EA Single Section, Full Door, Pass-Thru Hot Food Holding Cabinet.....  | 7,547.98                  | 257.64                  |
| 11 42 13 00-0054 EA Single Section, Half Door, Pass-Thru Hot Food Holding Cabinet.....  | 8,026.54                  | 257.64                  |
| 11 42 13 00-0055 EA Two Section, Full Door, Pass-Thru Hot Food Holding Cabinet.....   | 10,235.30                 | 269.90                  |
| 11 42 13 00-0056 EA Two Section, Half Door, Pass-Thru Hot Food Holding Cabinet.....   | 11,212.89                 | 269.90                  |
| <b>11 42 16 Food Preparation Surfaces</b> <small>(11 42)</small>  |                           |                         |
| <b>11 42 16 00-0001 Tables</b> <small>(11 42 16)</small>  |                           |                         |
| <b>11 42 16 00-0002 Baker's Table</b> <small>(11 42 16 00-0001)</small>   |                           |                         |
| 11 42 16 00-0003 EA 4' Open Base Baker's Table.....   | 895.88                    | 64.77                   |
| 11 42 16 00-0004 EA 10' Open Base Baker's Table.....  | 1,758.31                  | 126.99                  |
| 11 42 16 00-0005 EA 10' Undershelf Baker's Table.....   | 2,169.48                  | 156.70                  |
| 11 42 16 00-0006 EA 10' Three Drawers Baker's Table.....  | 2,326.91                  | 168.26                  |
| 11 42 16 00-0007 EA 10' Bins Baker's Table.....   | 3,423.50                  | 247.63                  |
| 11 42 16 00-0008 EA 10' Bins And Drawers Baker's Table.....   | 5,375.84                  | 388.71                  |
| <b>11 42 16 00-0009 Preparation Table, Stainless Steel, With Undershelf</b> <small>(11 42 16 00-0001)</small>                 |                           |                         |
| 11 42 16 00-0010 EA 30" x 72" Square Edge Stainless Steel Preparation Table With Undershelf.....                              | 1,306.42                  | 34.16                   |
| 11 42 16 00-0011 EA 30" x 72" Marine Edge Stainless Steel Preparation Table With Undershelf.....                              | 1,407.80                  | 41.01                   |
| 11 42 16 00-0012 EA 36" x 96" Marine Edge Stainless Steel Preparation Table With Undershelf.....                              | 2,128.07                  | 55.75                   |
| <b>11 42 16 00-0013 Preparation Table, Stainless Steel, With Open Front</b> <small>(11 42 16 00-0001)</small>                 |                           |                         |
| 11 42 16 00-0014 EA 30" X 72" Round Edge Stainless Steel Preparation Table With Open Front.....                               | 1,375.59                  | 35.93                   |
| 11 42 16 00-0015 EA 36" X 96" Round Edge Stainless Steel Preparation Table With Open Front.....                               | 1,768.02                  | 46.22                   |
| 11 42 16 00-0016 EA 36" X 96" Square Edge Stainless Steel Preparation Table With Open Front.....                              | 1,518.71                  | 39.75                   |
| 11 42 16 00-0017 EA 36" X 96" Marine Edge Stainless Steel Preparation Table With Open Front.....                              | 1,828.05                  | 47.87                   |
| 11 42 16 00-0018 EA Roller Utility Drawers Stainless Steel Preparation Table With Open Front.....                             | 369.29                    | 9.66                    |
| <b>11 42 16 00-0019 Mobile Tables</b> <small>(11 42 16 00-0001)</small>   |                           |                         |
| 11 42 16 00-0020 EA 21-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....                                  | 3,173.33                  | 30.60                   |
| 11 42 16 00-0021 EA 32-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....                                  | 1,717.04                  | 36.70                   |
| 11 42 16 00-0022 EA 32-1/4" x 27-1/2" x 41" Stainless Steel Mobile Table With Stainless Steel Top.....                        | 1,574.17                  | 41.28                   |
| <b>11 42 16 00-0023 Hot Food Tables, Stainless Steel, Gas Or Electric</b> <small>(11 42 16 00-0001)</small>                   |                           |                         |
| 11 42 16 00-0024 EA 32-1/4" x 27-1/2" x 41" Stainless Steel Hot Food Tables.....  | 2,811.43                  | 73.65                   |
| 11 42 16 00-0025 EA 32-1/4" x 27-1/2" x 21" Stainless Steel Hot Food Tables.....  | 2,280.43                  | 59.68                   |
| 11 42 16 00-0026 EA Full Size Pan With Cover Stainless Steel Hot Food Tables.....   | 189.28                    | 4.95                    |
| 11 42 16 00-0027 EA Set Of Three 1/3 Size With Cover Stainless Steel Hot Food Tables.....                                     | 276.94                    | 7.24                    |
| 11 42 16 00-0028 EA 58-1/2", 4 Openings Stainless Steel Hot Food Tables.....  | 5,590.72                  | 154.80                  |
| 11 42 16 00-0029 EA 114-1/2", 8 Openings Stainless Steel Hot Food Tables.....   | 11,122.56                 | 308.84                  |
| <b>11 42 16 00-0030 Basic Table</b> <small>(11 42 16 00-0001)</small>   |                           |                         |
| 11 42 16 00-0031 LF Table, Basic.....   | 294.40                    | 23.45                   |
| <b>11 42 16 00-0032 Table With Sink</b> <small>(11 42 16)</small>   |                           |                         |
| 11 42 16 00-0033 LF Table With Sink.....  | 401.25                    | 58.79                   |
| <b>11 42 23 Food Preparation Scullery Sinks</b> <small>(11 42)</small>  |                           |                         |
| <b>11 42 23 00-0001 Stainless Steel Scullery Sinks</b> <small>(11 42 23)</small>  |                           |                         |
| Note: Excludes faucet. See CSI section 22 42 39 00-0071 for service sink faucets.   |                           |                         |
| 11 42 23 00-0002 EA Stainless Steel Scullery Sink, Single 30" x 24" x 12" Compartment And Drainboard.....                     | 2,584.84                  | 246.72                  |
| <i>For Additional Drain Board, Add 230.29</i>   |                           |                         |
| 11 42 23 00-0003 EA Stainless Steel Scullery Sink, Double 30" x 24" x 12" Compartment And Drainboard.....                     | 3,620.28                  | 281.96                  |
| <i>For Additional Drain Board, Add 326.78</i>   |                           |                         |
| 11 42 23 00-0004 EA Stainless Steel Scullery Sink, Triple 30" x 24" x 12" Compartment And Drainboard.....                     | 4,767.19                  | 281.96                  |
| <i>For Additional Drain Board, Add 434.43</i>   |                           |                         |
| 11 42 23 00-0005 EA Stainless Steel Scullery Sink, Quad 30" x 24" x 12" Compartment And Drainboard.....                       | 6,797.28                  | 281.96                  |
| <i>For Additional Drain Board, Add 623.34</i>   |                           |                         |
| 11 42 23 00-0006 EA Stainless Steel Pot Sink, Double 20" x 20" x 18" Compartment And Drainboard.....                          | 4,220.48                  | 281.96                  |
| 11 42 23 00-0007 EA Stainless Steel Scullery Sink, Double 24" x 24" x 14" Compartment And Drainboards (Elkay WNSF8248LR)..... | 5,332.28                  | 281.96                  |
| <i>For Additional Drain Board, Add 497.98</i>   |                           |                         |

**11 44 Food Cooking Equipment** (11 40)



|                        |           |   |
|------------------------|-----------|---|
| <b>Equipment</b>       | <b>11</b> |   |
| Foodservice Equipment  | 11 40     | ↕ |
| Food Cooking Equipment | 11 44     |   |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**11 44 13 Commercial Ranges (11 44)**

**11 44 13 00-0001 Range (11 44 13)**

|                  |    |  |           |        |
|------------------|----|--|-----------|--------|
| 11 44 13 00-0002 | EA | Heavy Duty Range, With 34" Open Top Oven.....  | 3,229.24  | 122.69 |
| 11 44 13 00-0003 | EA | Range With Fry Top.....  | 3,229.24  | 122.69 |
| 11 44 13 00-0004 | EA | Steel Finish Fry Top.....  | 6,912.79  | 185.91 |
| 11 44 13 00-0005 | EA | Stainless Top Only Fry Top.....  | 6,909.36  | 183.78 |
| 11 44 13 00-0006 | EA | Stainless Top And 2 Sides Fry Top.....   | 7,984.25  | 213.98 |
| 11 44 13 00-0007 | EA | Gas Range, Vulcan #260L.....   | 7,212.16  | 190.64 |
| 11 44 13 00-0008 | EA | Note: Six 12" burners, open top sections, porcelain on steel aeration plates and grates. 24" griddle/broiler, two 26-1/4" x 22" x 14-1/2" ovens porcelain on steel liner and aluminized steel construction, nickel plated oven racks.<br>48" Range With Casters (Vulcan 48C-4B24GN)..... | 14,965.85 | 84.38  |

**11 44 16 Commercial Ovens (11 44)**

**11 44 16 00-0001 Bake Oven (11 44 16)**

|                  |    |   |           |        |
|------------------|----|---|-----------|--------|
| 11 44 16 00-0002 | EA | 55", 208 Voltage, 1 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-3836)..... | 19,255.98 | 460.28 |
| 11 44 16 00-0003 | EA | 55", 208 Voltage, 3 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-3836)..... | 19,255.98 | 460.28 |
| 11 44 16 00-0004 | EA | 74", 208 Voltage, 1 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-5736)..... | 26,034.10 | 460.28 |
| 11 44 16 00-0005 | EA | 74", 208 Voltage, 3 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-5736)..... | 26,034.10 | 460.28 |
| 11 44 16 00-0006 | EA | 55", 208 Voltage, 1 Phase, Double Deck Electric Bake Oven (Bakers Pride EB-2-8-3836)..... | 37,123.19 | 526.04 |
| 11 44 16 00-0007 | EA | 55", 208 Voltage, 3 Phase, Double Deck Electric Bake Oven (Bakers Pride EB-2-8-3836)..... | 37,123.19 | 526.04 |
| 11 44 16 00-0008 | EA | 74", 208 Voltage, 1 Phase, Double Deck Electric Bake Oven (Bakers Pride EB-2-8-7436)..... | 54,209.80 | 526.04 |
| 11 44 16 00-0009 | EA | 74", 208 Voltage, 3 Phase, Double Deck Electric Bake Oven (Bakers Pride EB-2-8-7436)..... | 54,209.80 | 526.04 |
| 11 44 16 00-0010 | EA | 55", 208 Voltage, 1 Phase, Triple Deck Electric Bake Oven (Bakers Pride EB-3-8-3836)..... | 58,955.57 | 657.56 |
| 11 44 16 00-0011 | EA | 55", 208 Voltage, 3 Phase, Triple Deck Electric Bake Oven (Bakers Pride EB-3-8-3836)..... | 58,955.57 | 657.56 |
| 11 44 16 00-0012 | EA | 74", 208 Voltage, 1 Phase, Triple Deck Electric Bake Oven (Bakers Pride EB-3-8-7436)..... | 82,822.61 | 657.56 |
| 11 44 16 00-0013 | EA | 74", 208 Voltage, 3 Phase, Triple Deck Electric Bake Oven (Bakers Pride EB-3-8-7436)..... | 82,822.61 | 657.56 |

**11 44 16 00-0014 Rapid-Cook Countertop Bake Ovens (11 44 16)**

|                  |    |  |           |       |
|------------------|----|--|-----------|-------|
| 11 44 16 00-0015 | EA | 6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Digital Control, Stainless Steel Countertop Oven (TurboChef ECS-9500-1).....  | 11,341.02 | 21.09 |
| 11 44 16 00-0016 | EA | 800 To 2,200 Watts, 208/240 Volt, Rapid Cook Type, Touchscreen Control, Stainless Steel Classic Countertop Oven (MerryChef E1SM).....  | 6,723.43  | 21.09 |
| 11 44 16 00-0017 | EA | 4,700 Watts, 208/240 Volt, 1.2 CF, Rapid Cook Type, Touchscreen Control, Stainless Steel Countertop Oven (MerryChef E3-1330-H).....  | 5,292.42  | 21.09 |
| 11 44 16 00-0018 | EA | 800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop High-Speed Oven (TurboChef ECO-9500-1).....                          | 8,077.76  | 21.09 |
| 11 44 16 00-0019 | EA | 800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven, Black (TurboChef ECO-9500-5).....                              | 8,407.78  | 21.09 |
| 11 44 16 00-0020 | EA | 800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven, Red (TurboChef ECO-9500-2).....                                | 8,407.78  | 21.09 |
| 11 44 16 00-0021 | EA | 800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Blue (TurboChef ECO-9500).....                                  | 8,407.78  | 21.09 |
| 11 44 16 00-0022 | EA | 800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Green (TurboChef ECO-9500).....                                 | 8,407.78  | 21.09 |
| 11 44 16 00-0023 | EA | 800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven, White (TurboChef ECO-9500).....                                     | 8,407.78  | 21.09 |
| 11 44 16 00-0024 | EA | 1,600 To 1,700 Watts, 208/240 Volt, 1.05 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven (TurboChef NGC-1280-1).....                                 | 15,655.96 | 21.09 |
| 11 44 16 00-0025 | EA | 6,200 Watts, 208/240 Volt, 1.304 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (MerryChef E4S).....   | 14,513.89 | 21.09 |
| 11 44 16 00-0026 | EA | 4,600 Watts, 208/240 Volt, 1.2 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Jetwave Ventless Countertop Oven (Amana JET19V).....                                 | 7,745.00  | 21.09 |
| 11 44 16 00-0027 | EA | 3,200 Watts, 208/240 Volt, 1.2 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Jetwave Countertop Oven (Amana JET14).....   | 6,327.68  | 21.09 |
| 11 44 16 00-0028 | EA | 4,600 Watts, 208/240 Volt, 1.2 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Countertop Oven (Amana JET19).....   | 6,882.28  | 21.09 |
| 11 44 16 00-0029 | EA | 6,200 Watts, 208/240 Volt, 0.78 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef ENC-9600-601).....   | 16,477.60 | 21.09 |
| 11 44 16 00-0030 | EA | 5,700 Watts, 208/240 Volt, 1.38 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Countertop Oven With Teflon® Coating And Touch Screen Display (Amana MXP22TLT)..... | 14,708.35 | 21.09 |
| 11 44 16 00-0031 | EA | 1,000 To 2,200 Watts, 208/240 Volt, 0.58 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (MerryChef E2S STANDARD CLASSIC).....                        | 10,282.48 | 21.09 |
| 11 44 16 00-0032 | EA | 9,500 To 11,500 Watts, 208/240 Volt, 2.2 CF, 1 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i5).....                                     | 20,710.38 | 21.09 |
| 11 44 16 00-0033 | EA | 9,500 To 11,500 Watts, 208/240 Volt, 2.2 CF, 3 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i5).....                                     | 20,710.38 | 21.09 |
| 11 44 16 00-0034 | EA | 9,500 To 11,500 Watts, 208/240 Volt, 2.2 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i5 Touch).....                                    | 21,477.24 | 21.09 |
| 11 44 16 00-0035 | EA | 11,500 Watts, 208/240 Volt, 2.2 CF, 3 Phase, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i5-9500-414-DL).....                              | 21,477.24 | 21.09 |
| 11 44 16 00-0036 | EA | 1,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (Amana MRX1).....                                       | 11,380.73 | 21.09 |
| 11 44 16 00-0037 | EA | 5,000 Watts, 208/240 Volt, 1.45 CF, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef HHB-8603-1).....   | 11,341.02 | 21.09 |
| 11 44 16 00-0038 | EA | 6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef I1-9500-400).....  | 13,837.41 | 21.09 |
| 11 44 16 00-0039 | EA | 4,000 To 4,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Countertop Oven (TurboChef I1-9500-104).....   | 12,051.73 | 21.09 |

**11 Equipment**  
**11 40 Foodservice Equipment**  
**11 44 Food Cooking Equipment**



| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 11 44 16 00-0040        | EA  | 6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen, Countertop Oven With Panini Press (TurboChef PANINI) .....   | 13,467.68                 | 21.09                   |
| 11 44 16 00-0041        | EA  | 6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven With Panini Press (TurboChef PANINI TOUCH) .....   | 14,123.62                 | 21.09                   |
| 11 44 16 00-0042        | EA  | 4,000 To 4,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven With Touch Controls (TurboChef SOTA SNGL MAG TOUCH) .....  | 12,503.63                 | 21.09                   |
| 11 44 16 00-0043        | EA  | 6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef WATERLESS STEAMER) .....   | 15,204.07                 | 21.09                   |
| 11 44 16 00-0044        | EA  | 6,200 Watts, 208/240 Volt, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef WATERLESS STEAMER TCH) .....  | 15,881.91                 | 21.09                   |
| 11 44 16 00-0045        | EA  | 2,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (Amana MRX2) .....  | 11,996.95                 | 21.09                   |
| 11 44 16 00-0046        | EA  | 2,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Black (Amana MRX1 BLACK) .....   | 11,517.67                 | 21.09                   |
| 11 44 16 00-0047        | EA  | 2,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Red (Amana MRX1 RED) .....   | 11,517.67                 | 21.09                   |
| 11 44 16 00-0048        | EA  | 1,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Black (Amana MRX2 BLACK) .....   | 12,133.89                 | 21.09                   |
| 11 44 16 00-0049        | EA  | 1,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Red (Amana MRX2 RED) .....   | 12,133.89                 | 21.09                   |
| 11 44 16 00-0050        | EA  | 4,000 To 4,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Powder Coated, Countertop Oven (TurboChef I1-9500-1) .....   | 13,186.95                 | 21.09                   |
| 11 44 16 00-0051        | EA  | 8,300 To 9,600 Watts, 208/240 Volt, 1.14 CF, 1 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i3) .....  | 17,673.08                 | 21.09                   |
| 11 44 16 00-0052        | EA  | 8,600 To 9,900 Watts, 208/240 Volt, 1.14 CF, 3 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i3) .....  | 17,673.08                 | 21.09                   |
| 11 44 16 00-0053        | EA  | 8,300 To 9,600 Watts, 208/240 Volt, 1.14 CF, 1 Phase, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i3 Touch) .....  | 18,412.55                 | 21.09                   |
| 11 44 16 00-0054        | EA  | 8,600 To 9,900 Watts, 208/240 Volt, 1.14 CF, 3 Phase, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i3 Touch) .....  | 18,412.55                 | 21.09                   |
| 11 44 16 00-0055        | EA  | 10,720/12,480 Watts, 208/240 Volt, 1.18 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Double Batch Ventless Countertop Oven (TurboChef HHD-9500-1) .....  | 16,565.24                 | 21.09                   |
| 11 44 16 00-0056        | EA  | 5,616 Watts, 208/240 Volt, 0.99 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Single Batch Ventless Countertop Oven (TurboChef HHS-9500-1) .....  | 12,448.85                 | 21.09                   |
| <b>11 44 16 00-0057</b> |     | <b>Combination Ovens <small>(11 44 16)</small></b>   |                           |                         |
|                         |     | Note: Convection, steam and combination modes.   |                           |                         |
| 11 44 16 00-0058        | EA  | 35.4" x 34" x 26.6" Half Size Electric Boilerless Combination Oven .....   | 24,258.80                 | 214.69                  |
| 11 44 16 00-0059        | EA  | 35.4" x 45" x 36.8" Full Size Electric Boilerless Combination Oven .....   | 39,768.55                 | 245.37                  |
| 11 44 16 00-0060        | EA  | 35.4" x 34" x 36.8 Half Size Electric Boilerless Combination Oven .....  | 32,864.80                 | 245.37                  |
| 11 44 16 00-0061        | EA  | 35.4" x 45" x 70.4" Full Size Electric Boilerless Combination Oven .....   | 79,238.79                 | 306.71                  |
| 11 44 16 00-0062        | EA  | 35.4" x 34" x 70.4 Half Size Electric Boilerless Combination Oven .....  | 60,176.96                 | 306.71                  |
| <b>11 44 16 00-0063</b> |     | <b>Countertop Electric Convection Type Ovens <small>(11 44 16)</small></b>   |                           |                         |
| 11 44 16 00-0064        | EA  | 1,440 Watts, 120 Volt, 0.8 CF, 150 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Quarter Size, Thermostatic Control, Stainless Steel Countertop Electric Convection Oven (Avantco CO-14) .....                                      | 262.17                    | 10.55                   |
| 11 44 16 00-0065        | EA  | 1,600 Watts, 120 Volt, 1.5 CF, 150 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Half Size, Thermostatic Control, Stainless Steel Countertop Electric Convection Oven (Avantco CO-16) .....   | 426.01                    | 10.55                   |
| 11 44 16 00-0066        | EA  | 2,800 Watts, 208/240 Volt, 2.3 CF, 150 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Thermostatic Control, Half Size, Stainless Steel Countertop Electric Convection Oven (Avantco CO-28) .....                                     | 502.31                    | 10.55                   |
| 11 44 16 00-0067        | EA  | 2,800 Watts, 208/240 Volt, 2.3 CF, 150 To 550 Degrees Fahrenheit Temperature Range, 2.3 CF, One Glass Door, Half Size, Stainless Steel Countertop Electric Convection Oven With Steam Injection (Avantco CO-32) .....                              | 646.97                    | 10.55                   |
| 11 44 16 00-0068        | EA  | 3,500 To 4,600 Watts, 208-240 Volt, 4.4 CF, 550 Degrees Fahrenheit, Two Glass Doors, Dial Control, Stainless Steel Full Size Electric Countertop Convection Oven (Avantco CO-38) .....   | 1,177.37                  | 10.55                   |
| 11 44 16 00-0069        | EA  | 3,500 To 4,600 Watts, 208 To 240 Volt, 4.4 CF, 150 To 550 Degrees Fahrenheit Temperature Range, One Glass Door, Dial Control, Full Size, Stainless Steel Countertop Electric Cooky Type Convection Oven With Steam Injection (Avantco CO-46) ..... | 1,370.24                  | 10.55                   |
| 11 44 16 00-0070        | EA  | 1,440 Watts, 120 Volt, 0.8 CF, 500 Degrees Fahrenheit Temperature Range, One Glass Door, Dial Control, Quarter Size, Stainless Steel Countertop Electric Convection Oven (Galaxy COE3Q) .....  | 233.24                    | 10.55                   |
| 11 44 16 00-0071        | EA  | 1,600 Watts, 120 Volt, 1.5 CF, 500 Degrees Fahrenheit, One Glass Door, Half Size, Dial Control, Stainless Steel Countertop Electric Convection Oven (Galaxy COE3H) .....   | 387.54                    | 10.55                   |
| 11 44 16 00-0072        | EA  | 1,700 Watts, 120 Volt, 27-15/16" Length x 23-5/8" Width x 24" Height, 200 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Half Size, Stainless Steel 4 Pan Electric Countertop Convection Oven (Global Solutions GS1110-17) .....     | 1,108.95                  | 10.55                   |
| 11 44 16 00-0073        | EA  | 1,400 Watts, 120 Volt, 1.19 CF, 150 - 570 Degrees Fahrenheit Temperature Range, One Glass Door, Thermostatic Control, Stainless Steel Half Size Electric Countertop Convection Oven (Vollrath 40703) .....   | 1,008.75                  | 10.55                   |
| 11 44 16 00-0074        | EA  | 2,400 Watts, 230 Volt, 1.9 CF, 150 - 570 Degrees Fahrenheit Temperature Range, One Glass Door, Dial Control, Stainless Steel Half Size Electric Countertop Convection Oven (Vollrath 40701) .....  | 1,371.98                  | 10.55                   |
| 11 44 16 00-0075        | EA  | 5,600 Watts, 230 Volt, 4.27 CF, 150 - 570 Degrees Fahrenheit Temperature Range, 1 Glass Door, Dial Control, Stainless Steel Full Size Electric Countertop Convection Oven (Vollrath 40702) .....   | 2,225.74                  | 10.55                   |
| <b>11 44 16 00-0076</b> |     | <b>Electric Convection Type Ovens <small>(11 44 16)</small></b>  |                           |                         |
| 11 44 16 00-0077        | EA  | 11 kW, 240 Volt, Two Glass Doors, 41-1/2" x 38-1/8" x 54-1/8", Single Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC-100) .....   | 4,459.12                  | 42.19                   |
| 11 44 16 00-0078        | EA  | 22 kW, 240 Volt, 1 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200DK) .....  | 8,844.03                  | 84.38                   |
| 11 44 16 00-0079        | EA  | 22 kW, 240 Volt, 3 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200CK) .....  | 8,844.03                  | 84.38                   |
| 11 44 16 00-0080        | EA  | 22 kW, 240 Volt, 3 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200EK) .....  | 8,844.03                  | 84.38                   |



|                               |              |   |
|-------------------------------|--------------|---|
| <b>Equipment</b>              | <b>11</b>    |   |
| <b>Foodservice Equipment</b>  | <b>11 40</b> | ↕ |
| <b>Food Cooking Equipment</b> | <b>11 44</b> |   |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 11 44 16 00-0081        | EA  |     | 22 kW, 208 Volt, 1 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200BK).....  | 8,844.03               | 84.38                |
| 11 44 16 00-0082        | EA  |     | 24 kW, 208 Volt, 3 Phase, Four Glass Doors, 40" x 40-1/8" x 68-13/16", Double Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC55ED-208/3).....   | 14,611.69              | 84.38                |
| 11 44 16 00-0083        | EA  |     | 12 kW, 208 Volt, 3 Phase, Two Glass Doors, 40" x 40-1/8" x 54", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-11D1 208/3).....  | 7,305.85               | 42.19                |
| 11 44 16 00-0084        | EA  |     | 12 kW, 240 Volt, 1 Phase, Two Glass Doors, 40" x 40-1/8" x 54", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-12D1 240/1).....  | 7,305.85               | 42.19                |
| 11 44 16 00-0085        | EA  |     | 12.5 kW, 208 Volt, 3 Phase, Two Glass Doors, 41-1/8" x 40-1/4" x 54-3/4", Single Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC4ED-11D1 208/3).....  | 8,019.43               | 42.19                |
| 11 44 16 00-0086        | EA  |     | 12 kW, 208 Volt, 1 Phase, Two Glass Doors, 40" x 40-1/8" x 54", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-11D1 208/1).....  | 7,305.85               | 42.19                |
| 11 44 16 00-0087        | EA  |     | 12 kW, 240 Volt, 3 Phase, Two Glass Doors, 40" x 40-1/8" x 24", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-12D1 240/3).....  | 7,305.85               | 42.19                |
| 11 44 16 00-0088        | EA  |     | 25 kW, 208 Volt, 3 Phase, Four Glass Doors, 41-1/8" x 40" x 70", Double Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC44ED-208/3).....   | 16,038.85              | 84.38                |
| 11 44 16 00-0089        | EA  |     | 11 kW, 220/240 Volt, 1 Phase, Two Glass Doors, 36-7/8" x 38-1/4" x 57", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Blodgett SHO-100-E).....   | 6,820.61               | 42.19                |
| 11 44 16 00-0090        | EA  |     | 22 kW, 208 Volt, 3 Phase, Four Glass Doors, 36-7/8" x 38-1/4" x 70", Double Deck, Stainless Steel Full Size Electric Convection Oven (Blodgett SHO-100-E).....  | 13,641.21              | 84.38                |
| 11 44 16 00-0091        | EA  |     | 24 kW, 208 Volt, 1 Phase, Four Glass Doors, 40" x 40-1/8" x 68 13/16", Double Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC55ED-208/1).....   | 14,611.69              | 84.38                |
| 11 44 16 00-0092        | EA  |     | 21 kW, 208 Volt, 1 Phase, Four Glass Doors, 46" x 40" x 74-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Bakers Pride BPCV-E2 208/1).....  | 18,491.39              | 84.38                |
| <b>11 44 16 00-0093</b> |     |     | <b>Natural Gas Convection Type Ovens (11 44 16)</b>   |                        |                      |
| 11 44 16 00-0094        | EA  |     | 54,000 BTU, 150 To 550 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven With Legs (Cooking Performance Group FGC100N).....                  | 5,129.54               | 42.19                |
| 11 44 16 00-0095        | EA  |     | 108,000 BTU, 150 To 550 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven With Legs (Cooking Performance Group FGC200N).....                | 10,173.48              | 84.38                |
| 11 44 16 00-0096        | EA  |     | 100,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Stainless Steel Double Deck Full Size Natural Gas Convection Oven With Solid State Controls (Vulcan VC44GD-NAT).....                               | 17,571.13              | 84.38                |
| 11 44 16 00-0097        | EA  |     | 100,000 BTU, 150 To 550 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Vulcan VC55GD).....  | 16,825.01              | 84.38                |
| 11 44 16 00-0098        | EA  |     | 100,000 BTU, 500 Degrees Fahrenheit, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Blodgett SHO-100-G).....  | 15,705.81              | 84.38                |
| 11 44 16 00-0099        | EA  |     | 50,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven with Solid State Controls And Legs (Vulcan VC4GD-11D150K).....       | 8,785.57               | 42.19                |
| 11 44 16 00-0100        | EA  |     | 120,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Bakery Depth Natural Gas Convection Oven With Draft Diverter (Blodgett ZEPHAIRE-200-G).....    | 8,869.94               | 84.38                |
| 11 44 16 00-0101        | EA  |     | 120,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Standard Depth Full Size Natural Gas Convection Oven With Analog Controls (Garland MCO-GS-20S).....      | 24,569.40              | 84.38                |
| 11 44 16 00-0102        | EA  |     | 50,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven (Blodgett SHO-100-G).....  | 7,852.91               | 42.19                |
| 11 44 16 00-0103        | EA  |     | 100,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Bakery Depth Natural Gas Convection Oven With Draft Diverter (Blodgett ZEPHAIRE-200-G-ES)..... | 21,543.18              | 84.38                |
| 11 44 16 00-0104        | EA  |     | 120,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Digital Control, Stainless Steel Double Deck Standard Depth Full Size Natural Gas Convection Oven With Digital Controls (Garland MCO-GS-20).....   | 32,032.89              | 84.38                |
| 11 44 16 00-0105        | EA  |     | 120,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Garland MCO-GS-20-ESS).....                                       | 24,569.40              | 84.38                |
| 11 44 16 00-0106        | EA  |     | 100,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Standard Depth Natural Gas Convection Oven With Draft Diverter (Blodgett ZEPHAIRE-100-G).....  | 20,116.75              | 84.38                |
| 11 44 16 00-0107        | EA  |     | 90,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Blodgett BDO-100-G-ES).....  | 17,900.31              | 84.38                |
| 11 44 16 00-0108        | EA  |     | 50,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven With Legs (Vulcan VC5GDN).....                                       | 8,412.51               | 42.19                |
| <b>11 44 16 00-0109</b> |     |     | <b>Broiler, Without Oven (11 44 16)</b>   |                        |                      |
| 11 44 16 00-0110        | EA  |     | 69" x 26" x 39" Broiler Without Oven.....   | 8,967.75               | 196.30               |
| 11 44 16 00-0111        | EA  |     | Conveyor Broiler.....   | 7,971.87               | 227.82               |
| <b>11 44 16 00-0112</b> |     |     | <b>Oven Stands (11 44 16)</b>   |                        |                      |
| 11 44 16 00-0113        | EA  |     | Stationary Oven Stand (Rational 60.30.334 US III UltraVent® Stationary Oven Stand).....   | 1,921.14               |                      |
| <b>11 44 16 00-0114</b> |     |     | <b>Triple Conveyor Oven (11 44 16)</b>  |                        |                      |
| 11 44 16 00-0115        | EA  |     | 30 kW, 208 Volt, Three Door, Single Belt, Triple Conveyor, FastBake Stainless Steel Impingement Cook Type Oven Package (Lincoln 1180-3/1180-FB3).....   | 62,345.06              | 168.75               |
|                         |     |     | Note: 39" Length x 56" Width x 62" Height, 250 To 575 Degrees Fahrenheit Temperature Range  |                        |                      |
| 11 44 16 00-0116        | EA  |     | 30 kW, 240 Volt, Three Door, Single Belt, Triple Conveyor, FastBake Stainless Steel Impingement Cook Type Oven Package (Lincoln 1180-3/1180-FB3).....   | 62,345.06              | 168.75               |
|                         |     |     | Note: 39" Length x 56" Width x 62" Height, 250 To 575 Degrees Fahrenheit Temperature Range  |                        |                      |

|           |                                     |
|-----------|-------------------------------------|
| <b>11</b> | <b>11 Equipment</b>                 |
|           | <b>11 40 Foodservice Equipment</b>  |
|           | <b>11 44 Food Cooking Equipment</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 11 44 16 00-0117 EA 22 kW, 208 Volt, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....             | 132,929.18                | 168.75                  |
| Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range   |                           |                         |
| 11 44 16 00-0118 EA 22 kW, 220 Volt, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....             | 115,310.10                | 168.75                  |
| Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range   |                           |                         |
| 11 44 16 00-0119 EA 22 kW, 240 Volt, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....             | 115,310.10                | 168.75                  |
| Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range   |                           |                         |
| 11 44 16 00-0120 EA 330,000 BTU, Natural Gas, Three Door, Triple Conveyor, Low Profile FastBake Stainless Steel, Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....   | 132,929.18                | 168.75                  |
| Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range   |                           |                         |
| 11 44 16 00-0121 EA 330,000 BTU, Liquid Propane, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3)..... | 132,929.18                | 168.75                  |
| Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range   |                           |                         |
| <b>11 44 19 Commercial Cooking Equipment (11 44)</b>   |                           |                         |
| <b>11 44 19 00-0001 Drop-In Electric Griddle (11 44 19)</b>  |                           |                         |
| 11 44 19 00-0002 EA 24" Wide x 24" Deep, Drop-In Electric Griddle.....   | 4,295.19                  | 168.69                  |
| 11 44 19 00-0003 EA 36" Wide x 24" Deep, Drop-In Electric Griddle.....   | 6,088.37                  | 168.69                  |
| 11 44 19 00-0004 EA 48" Wide x 24" Deep, Drop-In Electric Griddle.....   | 6,965.83                  | 184.03                  |
| 11 44 19 00-0005 EA 60" Wide x 24" Deep, Drop-In Electric Griddle.....   | 8,324.94                  | 184.03                  |
| 11 44 19 00-0006 EA 72" Wide x 24" Deep, Drop-In Electric Griddle.....   | 10,659.71                 | 199.36                  |
| <b>11 44 19 00-0007 Countertop Griddle (11 44 19)</b>  |                           |                         |
| 11 44 19 00-0008 EA 16", 120 Voltage, 1750 Watt, Electric Countertop Griddle (Avantco EG16N).....  | 587.68                    | 167.41                  |
| 11 44 19 00-0009 EA 24", 208/240 Voltage, 2675 To 3560 Watt, Electric Countertop Griddle (Avantco EG24N).....  | 719.68                    | 167.41                  |
| 11 44 19 00-0010 EA 30", 208/240 Voltage, 3375 To 4500 Watt, Electric Countertop Griddle (Avantco EG30N).....  | 796.68                    | 167.41                  |
| 11 44 19 00-0011 EA 36", 208/240 Voltage, 7488 To 10080 Watt, Electric Countertop Griddle (Avantco EG36N).....   | 993.59                    | 167.41                  |
| 11 44 19 00-0012 EA 24", 220 Voltage, Thermostatic Electric Griddle (Vollrath 40716).....  | 1,075.54                  | 167.41                  |
| 11 44 19 00-0013 EA 36", 220 Voltage, Thermostatic Electric Griddle (Vollrath 40717).....  | 1,369.57                  | 167.41                  |
| <b>11 44 19 00-0014 Panini Sandwich Grill (11 44 19)</b>   |                           |                         |
| 11 44 19 00-0015 EA 3,500 Watts, 120 Volt, Double Commercial Panini Sandwich Grill With Smooth Plates (Avantco P85S).....  | 595.26                    | 84.38                   |
| 11 44 19 00-0016 EA 1,750 Watts, 120 Volt, Commercial Panini Sandwich Grill With Grooved Plates (Avantco P78).....   | 455.41                    | 84.38                   |
| 11 44 19 00-0017 EA 1,750 Watts, 120 Volt, Commercial Panini Sandwich Grill With Smooth Plates (Avantco P70S).....   | 455.41                    | 84.38                   |
| 11 44 19 00-0018 EA 1,750 Watts, 120 Volt, Commercial Panini Sandwich Grill With Grooved Top and Smooth Bottom Plates (Avantco P75SG).....   | 455.41                    | 84.38                   |
| 11 44 19 00-0019 EA 2,392 Watts, 208 Volt, Panini Perfetto Grooved Top And Bottom Panini Sandwich Grill (Waring WPG150B).....  | 936.29                    | 84.38                   |
| <b>11 44 19 00-0020 Electric Countertop Fryer, With Submerger (11 44 19)</b>   |                           |                         |
| 11 44 19 00-0021 EA 30 LB Capacity, 208-240 Volt, Two Basket, Countertop Deep Fryer (Avantco F202).....  | 915.57                    | 84.38                   |
| 11 44 19 00-0022 EA 30 LB Capacity, 208-240 Volt, Four Basket, Commercial Countertop Deep Fryer (Vollrath 40710).....  | 2,011.10                  | 84.38                   |
| 11 44 19 00-0023 EA 30 LB Capacity, 240 Volt, Two Basket, Countertop Electric Deep Fryer (Garland E24-31F).....  | 7,485.35                  | 84.38                   |
| <b>11 44 19 00-0024 Electric Floor Fryer, With Submerger (11 44 19)</b>  |                           |                         |
| 11 44 19 00-0025 EA 50 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....  | 6,774.00                  | 245.37                  |
| 11 44 19 00-0026 EA 50 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....  | 7,107.02                  | 245.37                  |
| 11 44 19 00-0027 EA 85 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....  | 22,573.14                 | 318.98                  |
| 11 44 19 00-0028 EA 85 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....  | 23,119.62                 | 318.98                  |
| <b>11 44 19 00-0029 Kettles, Steam Jacketed (11 44 19)</b>   |                           |                         |
| 11 44 19 00-0030 EA 5 Gallon Kettle, With Stand.....   | 5,000.96                  | 114.39                  |
| 11 44 19 00-0031 EA 20 Gallon Kettle With Steam Jacket.....  | 20,537.62                 | 152.51                  |
| 11 44 19 00-0032 EA 40 Gallon Kettle With Steam Jacket.....  | 21,229.24                 | 167.76                  |
| 11 44 19 00-0033 EA 60 Gallon Kettle With Steam Jacket.....  | 25,705.22                 | 183.01                  |
| <b>11 44 19 00-0034 Steamers, Electric (11 44 19)</b>  |                           |                         |
| <b>11 44 19 00-0035 Cooking Equipment/ Steamers (11 44 19 00-0034)</b>   |                           |                         |
| 11 44 19 00-0036 EA 3 Pan, Electric Countertop Convection Steamer.....   | 9,279.10                  | 257.64                  |
| 11 44 19 00-0037 EA 5 Pan, Electric Countertop Convection Steamer.....   | 12,204.04                 | 269.90                  |
| 11 44 19 00-0038 EA 3 Pan, Electric Countertop Boilerless/Connectionless Steamer.....  | 8,590.28                  | 257.64                  |
| 11 44 19 00-0039 EA 5 Pan, Electric Countertop Boilerless/Connectionless Steamer.....  | 12,501.47                 | 269.90                  |
| <b>11 44 19 00-0040 Braising Pans (11 44 19)</b>   |                           |                         |
| 11 44 19 00-0041 EA 24" x 24", 240 Volt, Tilting Braising Pan.....   | 10,672.49                 | 265.83                  |
| 11 44 19 00-0042 EA 24" x 31", 240 Volt, Tilting Braising Pan.....   | 11,262.12                 | 279.56                  |
| 11 44 19 00-0043 EA 24" x 41", 240 Volt, Tilting Braising Pan.....   | 11,995.03                 | 297.71                  |
| 11 44 19 00-0044 EA 24" x 24", 62,000 BTU/Hour, Tilting Braising Pan.....  | 13,912.87                 | 346.67                  |
| 11 44 19 00-0045 EA 24" x 31", 90,000 BTU/Hour, Tilting Braising Pan.....  | 14,386.54                 | 357.34                  |
| 11 44 19 00-0046 EA 24" x 41", 120,000 BTU/Hour, Tilting Braising Pan.....   | 14,945.00                 | 366.80                  |



|                        |           |   |
|------------------------|-----------|---|
| <b>Equipment</b>       | <b>11</b> |   |
| Foodservice Equipment  | 11 40     | ↩ |
| Food Cooking Equipment | 11 44     |   |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>11 44 19 00-0047 Toasters <small>(11 44 19)</small></b>  |                           |                         |
| 11 44 19 00-0048 EA Bun Toaster 3.2 KW .....  | 2,103.89                  | 49.52                   |
| 11 44 19 00-0049 EA Bun Toaster 4.3 KW .....  | 2,296.11                  | 53.97                   |
| 11 44 19 00-0050 EA Pop-Up Toaster, 2 Slot .....  | 635.10                    | 132.86                  |
| 11 44 19 00-0051 EA Conveyor Toaster .....  | 1,082.24                  | 199.36                  |
| <b>11 44 19 00-0052 Microwave Ovens <small>(11 44 19)</small></b>   |                           |                         |
| 11 44 19 00-0053 EA 120 Volt, 1,000 Watt, 20" Length x 18" Width x 12" Height, Office Series Microwave With Dial Controls (Galaxy MW1000PD) .....   | 219.28                    | 10.55                   |
| 11 44 19 00-0054 EA 120 Volt, 1,000 Watt, 20" Length x 18" Width x 12" Height, Office Series Microwave With Push Button Controls (Galaxy MW1000PB) .....  | 241.30                    | 10.55                   |
| 11 44 19 00-0055 EA 120 Volt, 1,000 Watt, 20" Length x 18" Width x 12" Height, Stainless Steel Commercial Microwave With Push Button Controls (Solwave MW1000SS) .....  | 314.71                    | 10.55                   |
| 11 44 19 00-0056 EA 120 Volt, 1,000 Watt, 2 CF, 22" Length x 18" Width x 13-1/2" Height, Stackable Commercial Microwave With Dial Controls (Solwave MW112D) .....   | 402.80                    | 10.55                   |
| 11 44 19 00-0057 EA 120 Volt, 1,000 Watt, 2 CF, 22" Length x 18" Width x 13 1/2" Height, Stackable Commercial Microwave With Dial Controls (Solwave MW112T) .....   | 505.57                    | 10.55                   |
| 11 44 19 00-0058 EA 120 Volt, 1,000 Watt, 16-1/2" Length x 20" Width x 12-1/4" Height, Stainless Steel Commercial Microwave With Dial Controls (Solwave RMS10DS) .....  | 314.71                    | 10.55                   |
| 11 44 19 00-0059 EA 120 Volt, 1,000 Watt, 16-1/2" Length x 20" Width x 12-1/4" Height, Stainless Steel Commercial Microwaves With Push Button Controls (Amana RMS10TS) .....  | 368.30                    | 10.55                   |
| 11 44 19 00-0060 EA 120 Volt, 1,000 Watt, 19" Length x 22" Width x 13-3/4" Height, Medium Volume, Stainless Steel Commercial Microwave (Amana RCS10DSE) .....   | 655.34                    | 10.55                   |
| 11 44 19 00-0061 EA 120 Volt, 1,000 Watt, 19" Length x 22" Width x 13-7/8" Height, Stackable, Commercial Microwave With Push Button Controls (Amana RCS10TS) .....  | 800.69                    | 10.55                   |
| 11 44 19 00-0062 EA 120 Volt, 1,000 Watt, 21-5/8" Length x 16-1/2" Width x 13-1/2" Height, Stainless Steel, Heavy Duty Commercial Microwave With Push Button Controls (Amana HDC12A2) .....   | 1,685.99                  | 10.55                   |
| 11 44 19 00-0063 EA 120 Volt, 1,000 Watt, 18-1/8" Length x 20-1/2" Width x 12-1/4" Height, Stainless Steel, Commercial Microwave With Manual Controls (Vollrath 40830) .....  | 461.25                    | 10.55                   |
| 11 44 19 00-0064 EA 120 Volt, 1,000 Watt, 18-1/8" Length x 20-1/2" Width x 12-1/4" Height, Stainless Steel, Commercial Microwave With Digital Controls (Vollrath 40819) .....   | 630.45                    | 10.55                   |
| 11 44 19 00-0065 EA 120 Volt, 1,000 Watt, 17" Length x 20" Width x 12-1/4" Height, Stainless Steel, Commercial Microwave With Push Button Controls (Waring WMO90) .....   | 483.56                    | 10.55                   |
| 11 44 19 00-0066 EA 120 Volt, 1,000 Watt, 16-9/16" Length x 20-1/8" Width x 13" Height, Stainless Steel, Commercial Microwave With Push Button Controls (Panasonic NE-1054F) .....  | 424.84                    | 10.55                   |
| 11 44 19 00-0067 EA 120 Volt, 1,000 Watt, 16-3/8" Length x 20-1/8" Width x 12" Height, Stainless Steel Microwave With Programmable Memory Pads (Panasonic NE-1064F) .....   | 827.12                    | 10.55                   |
| 11 44 19 00-0068 EA 120 Volt, 1,000 Watt, 16-9/16" Length x 20-1/8" Width x 13" Height, Stainless Steel Commercial Microwave With Dial Timer (Panasonic NE-1025) .....  | 380.79                    | 10.55                   |
| 11 44 19 00-0069 EA 120 Volt, 1,200 Watt, 20-5/8" Length x 22-5/8" Width x 14-1/2" Height, Stainless Steel Commercial Microwave With Programmable Menu And Auto Cool Down (Solwave MW1200T) .....   | 797.75                    | 10.55                   |
| 11 44 19 00-0070 EA 120 Volt, 1,200 Watt, 22-1/4" Length x 16-1/2" Width x 13-1/2" Height, 100 Programmable Menu Items, See-through Door, USB Port, Commercial Heavy Duty Stainless Steel Microwave (Solwave MWHD12) .....                          | 885.84                    | 10.55                   |
| 11 44 19 00-0071 EA 120 Volt, 1,200 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, 15 Integrated Power Levels, See-through Door, Stainless Steel, Commercial, Medium Duty, Microwave With 90 Programmable Menu Pads (Panasonic NE-12523) ..... | 1,489.26                  | 10.55                   |
| 11 44 19 00-0072 EA 120 Volt, 1,200 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, Programmable, 15 Power Levels, Stainless Steel, Commercial, Medium Duty, Microwave With Push Button Controls (Panasonic NE-12521) .....                     | 1,382.08                  | 10.55                   |
| 11 44 19 00-0073 EA 120 Volt, 2,000 Watt, 21" Length x 21-3/4" Width x 14-3/8" Height, 4 Cooking Stages, 5 Power Levels, Stainless Steel, Commercial, Medium Duty, Microwave With Push Button Controls (Amana RFS12TS) .....                        | 1,627.27                  | 10.55                   |
| 11 44 19 00-0074 EA 208/230-240 Volt, 1,700 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, 3-Stage Cooking, See-through Door, Stainless Steel, Commercial Microwave With LCD Display (Panasonic NE-17521) .....                                | 1,524.50                  | 10.55                   |
| 11 44 19 00-0075 EA 208/230-240 Volt, 1,700 Watt, 20" Length x 16-5/8" Width x 13" Height, LCD Display With Digital Countdown, Stainless Steel, Commercial Microwave With 90 Programmable Memory Pads (Panasonic NE-17523) .....                    | 1,712.42                  | 10.55                   |
| 11 44 19 00-0076 EA 208/230-240 Volt, 2,100 Watt, 20-3/4" Length x 25-9/16" Width x 18-9/16" Height, Sonic Steamer, Stainless Steel, Commercial Microwave With 8 Programmable Memory Pads (Panasonic NE-2180) .....                                 | 4,626.01                  | 10.55                   |
| 11 44 19 00-0077 EA 208/230-240 Volt, 3,200 Watt, 20-3/4" Length x 25-9/16" Width x 18-5/8" Height, Sonic Steamer, See-through Door, Stainless Steel, Commercial Microwave With 3-stage Cook (Panasonic NE-3280) .....                              | 6,132.35                  | 10.55                   |
| 11 44 19 00-0078 EA 208/230 Volt, 1,800 Watt, 20-1/4" Length x 21-3/4" Width x 14-1/4" Height, Stainless Steel, Commercial, Medium Duty Microwave With Push Button Controls (Amana RFS18TS) .....   | 1,910.62                  | 10.55                   |
| 11 44 19 00-0079 EA 208/230 Volt, 2,200 Watt, 23-1/2" Length x 25-5/8" Width x 18-5/8" Height, Stainless Steel, Heavy Duty, 2 Pan Programmable Microwave (Amana AMSO22) .....   | 5,967.18                  | 10.55                   |
| 11 44 19 00-0080 EA 208/230 Volt, 2,400 Watt, 19-3/16" Length x 13-5/8" Width x 17-5/8" Height, 11 Power Levels, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana AOC24) .....                                    | 3,681.24                  | 10.55                   |
| 11 44 19 00-0081 EA 208/240 Volt, 22-1/4" Length x 16-1/2" Width x 13-1/2" Height, Space Saver, USB Port, Stainless Steel, Commercial, Heavy Duty Microwave (Solwave MWHD18) .....  | 988.61                    | 10.55                   |
| 11 44 19 00-0082 EA 208/240 Volt, 2,100 Watt, 1.2 CF, 20-5/8" Length x 22-5/8" Width x 14-1/2" Height, Large, Stainless Steel, Stackable, Commercial Microwave With Push Button Controls (Solwave MW2100T) .....                                    | 1,047.34                  | 10.55                   |
| 11 44 19 00-0083 EA 208/240 Volt, 2,100 Watt, 22-1/4" Length x 16-1/2" Width x 13-1/2" Height, 15 Power Levels, USB Port, Space Saver, Stainless Steel, Heavy Duty, Commercial Microwave With Push Button Controls (Solwave MWHD21) .....           | 1,120.75                  | 10.55                   |
| 11 44 19 00-0084 EA 208/240 Volt, 1,700 Watt, 25-1/2" Length x 19-1/4" Width x 18-1/8" Height, See-through Door, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana RC17S2) .....                                   | 2,703.44                  | 10.55                   |
| 11 44 19 00-0085 EA 208/240 Volt, 1,800 Watt, 1.2 CF, 20-5/8" Length x 22-5/8" Width x 14-1/2" Height, Large, Stainless Steel, Commercial Microwave With Push Button Controls (Solwave MW1800T) .....   | 900.52                    | 10.55                   |
| 11 44 19 00-0086 EA 208/240 Volt, 1,800 Watt, 21-5/8" Length x 15-1/2" Width x 13-1/2" Height, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana HDC182) .....   | 1,976.69                  | 10.55                   |
| 11 44 19 00-0087 EA 208/240 Volt, 1,800 Watt, 31-5/8" Length x 16-1/2" Width x 13-1/3" Height, Stainless Steel Commercial, Heavy Duty Microwave With Push Button Controls, Canadian Use Only (Amana HDC1815) .....                                  | 1,989.91                  | 10.55                   |
| 11 44 19 00-0088 EA 208/240 Volt, 1,800 Watt, 20-3/4" Length x 22-3/5" Width x 14-1/2" Height, Stainless Steel, Commercial, Medium Duty Microwave With Push Button Controls (Waring WMO120) .....   | 1,856.30                  | 10.55                   |

|           |                                     |
|-----------|-------------------------------------|
| <b>11</b> | <b>11 Equipment</b>                 |
|           | <b>11 40 Foodservice Equipment</b>  |
|           | <b>11 44 Food Cooking Equipment</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 11 44 19 00-0089 EA 208/240 Volt, 2,100 Watt, 21-5/8" Length x 15-1/2" Width x 13-1/2" Height, 100 Programmable Menu Items, 11 Integrated Power Levels, Stainless Steel, Commercial, Heavy Duty Microwave (Amana HDC212) .....       | 2,069.19                  | 10.55                   |
| 11 44 19 00-0090 EA 208/240 Volt, 2,100 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, 5 Cooking Stages, Half-size Pans, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Panasonic NE-21521) ..... | 1,870.98                  | 10.55                   |
| 11 44 19 00-0091 EA 208/240 Volt, 2,200 Watt, 25-1/2" Length x 19-1/4" Width x 18-1/8" Height, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana RC22S2) .....                                      | 3,377.33                  | 10.55                   |
| 11 44 19 00-0092 EA 208/240 Volt, 2,200 Watt, 25-1/2" Length x 19-1/4" Width x 18-1/8" Height, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana RC30S2) .....                                      | 4,434.41                  | 10.55                   |
| <b>11 44 19 00-0093 Ceramic Broiler On Storage Base With Doors (11 44 19)</b>  |                           |                         |
| 11 44 19 00-0094 EA Standard Finish Ceramic Boiler On Storage Base With Doors .....  | 8,793.25                  | 217.94                  |
| 11 44 19 00-0095 EA Stainless Steel Front Ceramic Boiler On Storage Base With Doors .....  | 8,793.25                  | 217.94                  |
| 11 44 19 00-0096 EA Stainless Steel Front And Sides Ceramic Boiler On Storage Base With Doors .....  | 10,929.26                 | 272.09                  |
| <b>11 44 19 00-0097 Gas Countertop Hot Plate (11 44 19)</b>  |                           |                         |
| 11 44 19 00-0098 EA 2 Burners Gas Countertop Hot Plate .....   | 1,121.05                  | 27.76                   |
| <b>11 46 Food Dispensing Equipment (11 40)</b>   |                           |                         |
| <b>11 46 13 Bar Equipment (11 46)</b>  |                           |                         |
| <b>11 46 13 00-0001 Soft Serve Machines (11 46 13)</b>   |                           |                         |
| 11 46 13 00-0002 EA Soft Serve Machines, Medium .....  | 12,829.53                 | 145.01                  |
| 11 46 13 00-0003 EA Soft Serve Machines, Large .....   | 21,619.13                 | 177.16                  |
| <b>11 46 13 00-0004 Salad Bars (11 46 13)</b>  |                           |                         |
| 11 46 13 00-0005 EA 96" Refrigerated Salad Bar With Light 54" Height .....   | 16,439.11                 | 590.99                  |
| 11 46 13 00-0006 EA 96" Refrigerated Salad Bar Without Light 54" Height .....  | 15,077.96                 | 590.99                  |
| 11 46 13 00-0007 EA 96" Iced Salad Bar Without Light 54" Height .....  | 10,603.64                 | 324.70                  |
| 11 46 13 00-0008 EA 79" Iced Salad Bar Without Light 54" Height .....  | 8,385.91                  | 266.75                  |
| 11 46 13 00-0009 EA 79" Refrigerated Salad Bar Without Light 54" Height .....  | 12,739.67                 | 391.35                  |
| 11 46 13 00-0010 EA 114" Iced Salad Bar 34" Height .....   | 14,033.94                 | 346.67                  |
| 11 46 13 00-0011 EA Salad Bar Tray Fixed .....   | 1,631.57                  | 58.71                   |
| 11 46 13 00-0012 EA Salad Bar Tray Hinged .....  | 1,734.67                  | 58.71                   |
| <b>11 46 16 Service Line Equipment (11 46)</b>   |                           |                         |
| <b>11 46 16 00-0001 Food Warmer Holding Station (11 46 16)</b>   |                           |                         |
| 11 46 16 00-0002 EA Food Warmer Station And Heat Lamp .....  | 777.34                    | 18.28                   |
| <b>11 46 16 00-0003 Reach-In Food Warmers (11 46 16)</b>   |                           |                         |
| 11 46 16 00-0004 EA One Drawer, 16 Roll Capacity Food Warmer .....   | 1,672.79                  | 39.36                   |
| 11 46 16 00-0005 EA Three Drawer, 36 Roll Capacity Food Warmer .....   | 3,828.09                  | 90.16                   |
| <b>11 46 16 00-0006 Hot Cabinets With Top Wells Electric (11 46 16)</b>  |                           |                         |
| 11 46 16 00-0007 EA 2 Wells, 2 Compartments Hot Cabinet With Top Wells, Electric .....   | 8,990.61                  | 217.94                  |
| 11 46 16 00-0008 EA 3 Wells, 3 Compartments Hot Cabinet With Top Wells, Electric .....   | 12,845.42                 | 312.35                  |
| <b>11 46 16 00-0009 Portable Hot Food Units (11 46 16)</b>   |                           |                         |
| 11 46 16 00-0010 EA 46" Wide x 28" Deep x 34" Height, Three Well, Stainless Steel Hot Food Station (Vollrath Model 37030) .....  | 5,460.43                  |                         |
| 11 46 16 00-0011 EA 60" Wide x 28" Deep x 34" Height, Four Well, Stainless Steel Hot Food Station (Vollrath Model 37040) .....   | 6,253.69                  |                         |
| 11 46 16 00-0012 EA 74" Wide x 28" Deep x 34" Height, Five Well, Stainless Steel Hot Food Station (Vollrath Model 37050) .....   | 7,068.92                  |                         |
| <b>11 46 16 00-0013 Stationary Hot Food Units (11 46 16)</b>   |                           |                         |
| 11 46 16 00-0014 EA 46" Wide x 29-1/2" Deep x 34" Height, Three Well, Stainless Steel Hot Food Station (Vollrath Model 38203) .....  | 1,667.99                  | 44.39                   |
| 11 46 16 00-0015 EA 61-1/4" Wide x 29-1/2" Deep x 34" Height, Four Well, Stainless Steel Hot Food Station (Vollrath Model 38204) .....   | 2,236.65                  | 51.09                   |
| 11 46 16 00-0016 EA 76" Wide x 29-1/2" Deep x 34" Height, Five Well, Stainless Steel Hot Food Station (Vollrath Model 38205) .....   | 2,783.54                  | 65.43                   |
| <b>11 46 16 00-0017 Serving Counters (11 46 16)</b>  |                           |                         |
| 11 46 16 00-0018 LF 11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Straight Section .....  | 128.88                    | 50.05                   |
| 11 46 16 00-0019 LF 11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Curved Section .....  | 168.14                    | 76.68                   |
| <b>11 46 16 00-0020 Drop-In Equipment (11 46 16)</b>   |                           |                         |
| 11 46 16 00-0021 EA Hot Food Well, Rectangular .....   | 612.57                    | 159.49                  |
| 11 46 16 00-0022 EA Hot Food Well, Circular .....  | 566.70                    | 159.49                  |
| 11 46 16 00-0023 EA Refrigerated Well, 2 Compartment .....   | 2,240.14                  | 159.49                  |
| 11 46 16 00-0024 EA Refrigerated Well, 3 Compartment .....   | 2,544.54                  | 177.16                  |



|                                  |              |   |
|----------------------------------|--------------|---|
| <b>Equipment</b>                 | <b>11</b>    |   |
| <b>Foodservice Equipment</b>     | <b>11 40</b> | ⇩ |
| <b>Food Dispensing Equipment</b> | <b>11 46</b> |   |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 11 46 16 00-0025        | EA  |     | Refrigerated Well, 4 Compartment .....  | 2,890.73               | 199.36               |
| 11 46 16 00-0026        | EA  |     | Frost Cold Plate .....  | 2,212.30               | 177.16               |
| <b>11 46 16 00-0027</b> |     |     | <b>Beverage Dispensing (11 46 16)</b>   |                        |                      |
| 11 46 16 00-0028        | EA  |     | Coffee Urn, Twin 3 Gallon .....   | 3,631.89               | 273.50               |
| 11 46 16 00-0029        | EA  |     | Coffee Urn, Twin 6 Gallon .....   | 5,169.53               | 382.83               |
| 11 46 16 00-0030        | EA  |     | Coffee Brewer, 5 Burner .....   | 1,579.05               | 273.50               |
| 11 46 16 00-0031        | EA  |     | Hot Chocolate Dispenser .....   | 1,516.94               | 225.26               |
| 11 46 16 00-0032        | EA  |     | Iced Tea Brewer .....   | 2,170.64               | 225.26               |
| 11 46 16 00-0033        | EA  |     | Juice Dispenser (Concentrate) .....   | 1,625.69               | 354.07               |
| 11 46 16 00-0034        | EA  |     | Jet Spray Dispenser .....   | 2,257.08               | 354.44               |
| 11 46 16 00-0035        | EA  |     | Milk Dispenser, Bulk, 2 Flavor .....  | 1,862.09               | 199.36               |
| 11 46 16 00-0036        | EA  |     | Milk Dispenser, Bulk, 3 Flavor .....  | 2,515.79               | 199.36               |
| <b>11 46 16 00-0037</b> |     |     | <b>Dish Dispensers (11 46 16)</b>   |                        |                      |
| 11 46 16 00-0038        | EA  |     | Heated Plate Lift; Adjustable Plate Storage And Transport (Adcraft ADC-LR-2) .....                                      | 1,952.27               | 31.64                |
| 11 46 16 00-0039        | EA  |     | 12" Diameter, Drop-in, Dish Dispenser .....   | 716.25                 | 30.12                |
| 11 46 16 00-0040        | EA  |     | Drop-in, Cup And Glass Dispenser .....  | 1,214.87               | 93.64                |
| 11 46 16 00-0041        | EA  |     | Drop-in, Disposable Cup Dispenser .....   | 443.57                 | 21.09                |
| <b>11 46 16 00-0042</b> |     |     | <b>Tray And Silver Dispensers (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0043        | EA  |     | Tray And Silver Dispensers Mobile .....   | 2,808.36               | 21.09                |
| <b>11 46 16 00-0044</b> |     |     | <b>Condiment Dispensers (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0045        | EA  |     | Butter Pat Dispenser .....  | 160.53                 | 26.41                |
| 11 46 16 00-0046        | EA  |     | Bread Dispenser, Counter Top .....  | 461.01                 | 26.41                |
| <b>11 46 16 00-0047</b> |     |     | <b>Sandwich Rack Warmer (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0048        | EA  |     | 18 Compartment, 2 Tier Sandwich Rack Warmer .....   | 3,561.21               | 145.91               |
| <b>11 46 16 00-0049</b> |     |     | <b>Mobile Bread Counter (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0050        | EA  |     | Mobile Bread And Roll Counter .....   | 8,172.48               | 328.01               |
| <b>11 46 16 00-0051</b> |     |     | <b>Open Service Stand (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0052        | EA  |     | 6' Open Service Stand .....   | 3,179.78               | 136.50               |
| 11 46 16 00-0053        | LF  |     | Each Additional Foot Over 6 Foot Add .....  | 434.94                 | 18.45                |
| <b>11 46 16 00-0054</b> |     |     | <b>Mobile Serving Stand Unit (11 46 16)</b>   |                        |                      |
| 11 46 16 00-0055        | EA  |     | 36" Mobile Serving Stand Unit .....   | 2,781.99               | 130.55               |
| 11 46 16 00-0056        | EA  |     | 96" Mobile Serving Stand Unit .....   | 4,564.65               | 195.68               |
| <b>11 46 16 00-0057</b> |     |     | <b>Reach-In Heated Cabinets (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0058        | EA  |     | Heated Cabinet, Reach-in, 1 Compartment .....   | 5,569.73               | 204.52               |
| 11 46 16 00-0059        | EA  |     | Heated Cabinet, Reach-in, 2 Compartment .....   | 8,014.81               | 257.27               |
| 11 46 16 00-0060        | EA  |     | Heated Cabinet, 1 Compartment, Pass-Through Roll-In .....   | 5,827.77               | 204.52               |
| 11 46 16 00-0061        | EA  |     | Heated Cabinet, Pass-Through, Roll-In 2 Compartment .....   | 8,389.83               | 257.27               |
| <b>11 46 16 00-0062</b> |     |     | <b>Mobile Heated Cabinets (11 46 16)</b>  |                        |                      |
| 11 46 16 00-0063        | EA  |     | Mobile, Heated Cabinet .....  | 6,183.70               | 52.73                |
| <b>11 46 19</b>         |     |     | <b>Soda Fountain Equipment (11 46)</b>  |                        |                      |
| <b>11 46 19 00-0001</b> |     |     | <b>Carbonated Beverage Dispensing (11 46 19)</b>  |                        |                      |
| 11 46 19 00-0002        | EA  |     | Carbonated Beverage Dispenser .....   | 3,999.25               | 498.47               |
| 11 46 19 00-0003        | EA  |     | Carbonated Beverage Dispenser With 90 LB Ice .....  | 6,283.94               | 569.62               |
| 11 46 19 00-0004        | EA  |     | Carbonated Beverage Dispenser With 150 LB Ice .....   | 11,485.25              | 797.45               |
| <b>11 46 19 00-0005</b> |     |     | <b>Beverage Chilling Systems (11 46 19)</b>   |                        |                      |
| 11 46 19 00-0006        | EA  |     | Beverage Chiller, Small .....   | 9,744.26               | 469.89               |
| 11 46 19 00-0007        | EA  |     | Beverage Chiller, Large .....   | 18,217.19              | 704.91               |
| <b>11 46 83</b>         |     |     | <b>Ice Machines (11 46)</b>   |                        |                      |
| <b>11 46 83 00-0001</b> |     |     | <b>Undercounter Ice Machines With Bin (11 46 83)</b>  |                        |                      |
| 11 46 83 00-0002        | EA  |     | 53 LB/Day, Air Cooled Undercounter Octagonal Cube Ice Machine With 25 LB Capacity Bin (Manitowoc SM-50A 115/60/1) ..... | 2,416.26               | 21.09                |



|              |                                  |
|--------------|----------------------------------|
| <b>11</b>    | <b>Equipment</b>                 |
| <b>11 40</b> | <b>Foodservice Equipment</b>     |
| <b>11 46</b> | <b>Food Dispensing Equipment</b> |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 11 46 83 00-0003        | EA  |     | 85 LB/Day, Air Cooled Undercounter Pearl/Nugget Ice Machine With 22 LB Capacity Bin (Ice-O-Matic GEMU090).....   | 3,950.84               | 214.69               |
| 11 46 83 00-0004        | EA  |     | 137 LB/Day, Air Cooled Undercounter Half Dice Cube Ice Machine With 90 LB Capacity Bin (Manitowoc UYF0140A)..... | 3,025.49               | 214.69               |
| 11 46 83 00-0005        | EA  |     | 100 LB/Day, Undercounter, Air Cooled Ice Machine With 57 LB Capacity Bin (Scotsman CU0920MA).....                | 2,954.72               | 214.69               |
| 11 46 83 00-0006        | EA  |     | 227 LB/Day, Undercounter, Air Cooled Ice Machine With 80 Lb Capacity Bin (Scotsman UC2024SA).....                | 3,182.41               | 230.04               |
| 11 46 83 00-0007        | EA  |     | 282 LB/Day, Undercounter, Air Cooled Ice Machine With 80 Lb Capacity Bin (Scotsman UC2724SA).....                | 3,551.50               | 230.04               |
| <b>11 46 83 00-0008</b> |     |     | <b>Ice Cube Maker</b> <sup>(11 46 83)</sup>  |                        |                      |
| 11 46 83 00-0009        | EA  |     | 320 LB/Day, Modular Ice Maker Without Bin.....   | 4,138.86               | 230.04               |
| 11 46 83 00-0010        | EA  |     | 451 LB/Day, Modular Ice Maker Without Bin.....   | 4,496.77               | 245.37               |
| 11 46 83 00-0011        | EA  |     | 600 LB/Day, Modular Ice Maker Without Bin.....   | 5,141.80               | 245.37               |
| 11 46 83 00-0012        | EA  |     | 901 LB/Day, Modular Ice Maker Without Bin.....   | 7,334.99               | 260.70               |
| 11 46 83 00-0013        | EA  |     | 1301 LB/Day, Modular Ice Maker Without Bin.....  | 8,316.96               | 260.70               |
| 11 46 83 00-0014        | EA  |     | 1601 LB/Day, Modular Ice Maker Without Bin.....  | 10,019.39              | 276.04               |
| 11 46 83 00-0015        | EA  |     | 1900 LB/Day, Modular Ice Maker Without Bin.....  | 11,062.95              | 276.04               |
| <b>11 46 83 00-0016</b> |     |     | <b>Ice Flakers</b> <sup>(11 46 83)</sup>   |                        |                      |
| 11 46 83 00-0017        | EA  |     | 300 LB/Day, Ice Flakers.....   | 7,459.04               | 765.89               |
| 11 46 83 00-0018        | EA  |     | 600 LB/Day, Ice Flakers.....   | 13,495.13              | 1,225.42             |
| 11 46 83 00-0019        | EA  |     | 1,000 LB/Day, Ice Flakers.....   | 16,701.73              | 1,684.96             |
| 11 46 83 00-0020        | EA  |     | 2,000 LB/Day, Ice Flakers.....   | 20,381.13              | 1,838.14             |
| <b>11 46 83 00-0021</b> |     |     | <b>Ice Storage Bins</b> <sup>(11 46 83)</sup>  |                        |                      |
| 11 46 83 00-0022        | EA  |     | 260 LB Capacity, Stainless Steel Ice Storage Bin.....  | 1,602.00               | 126.56               |
| 11 46 83 00-0023        | EA  |     | 360 LB Capacity, Stainless Steel Ice Storage Bin.....  | 1,759.66               | 126.56               |
| 11 46 83 00-0024        | EA  |     | 550 LB Capacity, Stainless Steel Ice Storage Bin.....  | 2,201.19               | 137.10               |
| 11 46 83 00-0025        | EA  |     | 660 LB Capacity, Stainless Steel Ice Storage Bin.....  | 2,376.38               | 137.10               |
| 11 46 83 00-0026        | EA  |     | 1150 LB Capacity, Stainless Steel Ice Storage Bin.....   | 4,587.24               | 147.65               |
| <b>11 48</b>            |     |     | <b>Foodservice Cleaning and Disposal Equipment</b> <sup>(11 48)</sup>  |                        |                      |
| <b>11 48 13</b>         |     |     | <b>Commercial Dishwashers</b> <sup>(11 48)</sup>   |                        |                      |
| <b>11 48 13 00-0001</b> |     |     | <b>Sprays And Hoses</b> <sup>(11 48 13)</sup>  |                        |                      |
| <b>11 48 13 00-0002</b> |     |     | <b>Sprays, Fillers</b> <sup>(11 48 13 00-0001)</sup>   |                        |                      |
| 11 48 13 00-0003        | EA  |     | Pre-Rinse Spray.....   | 510.40                 | 111.79               |
| 11 48 13 00-0004        | EA  |     | Kettle Fillers.....  | 453.06                 | 111.79               |
| <b>11 48 13 00-0005</b> |     |     | <b>Hoses</b> <sup>(11 48 13 00-0001)</sup>   |                        |                      |
| 11 48 13 00-0006        | EA  |     | Hose Reel.....   | 612.48                 | 134.21               |
| 11 48 13 00-0007        | EA  |     | Wash-Down Hose.....  | 497.80                 | 134.21               |
| 11 48 13 00-0008        | EA  |     | Hose Reel And Spray System With Accessories (Chicago 535NF).....   | 1,593.66               |                      |
| <b>11 48 13 00-0009</b> |     |     | <b>Rack Type Dishwasher</b> <sup>(11 48 13)</sup>  |                        |                      |
| 11 48 13 00-0010        | EA  |     | Dishwasher, 1 Tank And 190 To 230 Racks/Hour.....  | 23,786.28              | 1,301.61             |
| 11 48 13 00-0011        | EA  |     | Dishwasher, 2 Tanks And 234 To 260 Racks/Hour.....   | 38,071.41              | 1,607.88             |
| 11 48 13 00-0012        | EA  |     | Dishwasher, 2 Tanks And 265 To 290 Racks/Hour.....   | 45,401.76              | 1,837.58             |
| <b>11 48 13 00-0013</b> |     |     | <b>Undercounter Type Dishwasher</b> <sup>(11 48 13)</sup>  |                        |                      |
| 11 48 13 00-0014        | EA  |     | High Speed, Undercounter Commercial Dishwasher (Hobart LX30-H).....  | 6,632.88               | 267.98               |
| <b>11 48 13 00-0015</b> |     |     | <b>Exhaust Hood Dishwasher</b> <sup>(11 48 13)</sup>   |                        |                      |
| 11 48 13 00-0016        | EA  |     | 4' x 4' x 2' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides.....                               | 2,646.49               | 274.30               |
| 11 48 13 00-0017        | EA  |     | 4' x 4' x 7' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides.....                               | 4,498.00               | 329.16               |
| <b>11 48 13 00-0018</b> |     |     | <b>Dish Tables</b> <sup>(11 48 13)</sup>   |                        |                      |
| 11 48 13 00-0019        | LF  |     | Clean/Soiled Dish Table, Basic.....  | 325.85                 | 58.79                |
| 11 48 13 00-0020        | LF  |     | Clean/Soiled Dish Table With Trough.....   | 510.53                 | 88.11                |
| 11 48 13 00-0021        | LF  |     | Clean/Soiled Dish Table, Maximum.....  | 622.72                 | 117.44               |
| <b>11 48 16</b>         |     |     | <b>Foodservice Disposal Equipment</b> <sup>(11 48)</sup>   |                        |                      |
| <b>11 48 16 00-0001</b> |     |     | <b>Garbage Disposals</b> <sup>(11 48 16)</sup>   |                        |                      |
|                         |     |     | Note: Manual switch.   |                        |                      |
| 11 48 16 00-0002        | EA  |     | 1/2 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....  | 1,687.74               | 206.73               |
| 11 48 16 00-0003        | EA  |     | 3/4 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....  | 2,104.05               | 214.38               |
| 11 48 16 00-0004        | EA  |     | 1 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....  | 2,254.35               | 222.04               |
| 11 48 16 00-0005        | EA  |     | 1.5 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....  | 2,916.63               | 229.70               |
| 11 48 16 00-0006        | EA  |     | 2 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....  | 3,173.20               | 252.67               |



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| <b>Equipment</b>                                   | <b>11</b>    |
| <b>Foodservice Equipment</b>                       | <b>11 40</b> |
| <b>Foodservice Cleaning and Disposal Equipment</b> | <b>11 48</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 11 48 16 00-0007 | EA  |     | 3 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal .....     | 4,421.95               | 275.64               |
| 11 48 16 00-0008 | EA  |     | 5 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal .....     | 5,262.27               | 306.27               |
| 11 48 16 00-0009 | EA  |     | 7-1/2 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal ..... | 7,283.50               | 329.24               |
| 11 48 16 00-0010 | EA  |     | 10 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal .....    | 9,555.80               | 344.54               |
| 11 48 16 00-0011 |     |     | <b>Pulper/Extractors</b> <small>(11 48 16)</small>                           |                        |                      |
| 11 48 16 00-0012 | EA  |     | 5 HP, Pulper/Extractor, Close-Coupled .....                                  | 6,391.45               | 318.97               |

## 11 50 Educational and Scientific Equipment (11)

### 11 52 Audio-Visual Equipment (11 50)

#### 11 52 13 Projection Screens (11 52)

##### 11 52 13 13 Fixed Projection Screens (11 52 13)

##### 11 52 13 13-0001 Screens (11 52 13 13)

##### 11 52 13 13-0002 Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model B)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 11 52 13 13-0003 | EA | 40" x 40" Pull Down Projection Screen (Da-Lite B)..... | 389.53   | 88.93  |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0004 | EA | 50" x 50" Pull Down Projection Screen (Da-Lite B)..... | 464.68   | 114.33 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0005 | EA | 60" x 60" Pull Down Projection Screen (Da-Lite B)..... | 590.61   | 158.79 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0006 | EA | 70" x 70" Pull Down Projection Screen (Da-Lite B)..... | 684.82   | 190.56 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0007 | EA | 84" x 84" Pull Down Projection Screen (Da-Lite B)..... | 1,059.44 | 285.83 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0008 | EA | 96" x 96" Pull Down Projection Screen (Da-Lite B)..... | 1,245.67 | 317.58 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0009 | EA | 64" x 84" Pull Down Projection Screen (Da-Lite B)..... | 894.29   | 203.26 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0010 | EA | 72" x 96" Pull Down Projection Screen (Da-Lite B)..... | 1,026.60 | 254.07 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0011 | EA | 43" x 57" Pull Down Projection Screen (Da-Lite B)..... | 550.35   | 107.98 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0012 | EA | 50" x 67" Pull Down Projection Screen (Da-Lite B)..... | 761.99   | 152.44 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0013 | EA | 55" x 77" Pull Down Projection Screen (Da-Lite B)..... | 830.78   | 171.50 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0014 | EA | 60" x 80" Pull Down Projection Screen (Da-Lite B)..... | 886.86   | 184.21 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0015 | EA | 69" x 92" Pull Down Projection Screen (Da-Lite B)..... | 1,024.44 | 222.32 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0016 | EA | 45" x 80" Pull Down Projection Screen (Da-Lite B)..... | 836.04   | 158.79 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |
| 11 52 13 13-0017 | EA | 52" x 92" Pull Down Projection Screen (Da-Lite B)..... | 948.21   | 184.21 |
|                  |    | <i>For High Contrast Matte, Add</i>                    | 40.00    |        |
|                  |    | <i>For Video Spectra Fabric, Add</i>                   | 40.00    |        |
|                  |    | <i>For High Power Fabric, Add</i>                      | 120.00   |        |

**11 Equipment**  
**11 50 Educational and Scientific Equipment**  
**11 52 Audio-Visual Equipment**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>11 52 13 13-0018 Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C)</b> <small>(11 52 13 13-0001)</small>          |                           |                         |
| 11 52 13 13-0019 EA 50" x 50" Pull Down Projection Screen (Da-Lite C).....  | 894.17                    | 114.33                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0020 EA 60" x 60" Pull Down Projection Screen (Da-Lite C).....  | 1,050.78                  | 158.79                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0021 EA 70" x 70" Pull Down Projection Screen (Da-Lite C).....  | 1,226.48                  | 215.96                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0022 EA 84" x 84" Pull Down Projection Screen (Da-Lite C).....  | 1,427.58                  | 285.83                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0023 EA 6' x 8' Pull Down Projection Screen (Da-Lite C).....  | 1,562.99                  | 292.18                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0024 EA 8' x 8' Pull Down Projection Screen (Da-Lite C).....  | 1,675.16                  | 317.58                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0025 EA 7' x 9' Pull Down Projection Screen (Da-Lite C).....  | 1,705.84                  | 317.58                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0026 EA 9' x 9' Pull Down Projection Screen (Da-Lite C).....  | 1,835.99                  | 336.64                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0027 EA 8' x 10' Pull Down Projection Screen (Da-Lite C).....   | 1,966.13                  | 355.70                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0028 EA 10' x 10' Pull Down Projection Screen (Da-Lite C).....  | 2,108.97                  | 381.11                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0029 EA 9' x 12' Pull Down Projection Screen (Da-Lite C).....   | 2,354.40                  | 381.11                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0030 EA 12' x 12' Pull Down Projection Screen (Da-Lite C).....  | 2,731.19                  | 508.14                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| <b>11 52 13 13-0031 Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C With CSR)</b> <small>(11 52 13 13-0001)</small> |                           |                         |
| Note: With controlled screen return.  |                           |                         |
| 11 52 13 13-0032 EA 60" x 60" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                               | 1,664.34                  | 158.79                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0033 EA 70" x 70" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                               | 1,870.72                  | 215.96                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0034 EA 84" x 84" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                               | 2,071.81                  | 285.83                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0035 EA 6' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                                 | 2,176.55                  | 292.18                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0036 EA 8' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                                 | 2,319.40                  | 317.58                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0037 EA 7' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                                 | 2,350.08                  | 317.58                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |
| 11 52 13 13-0038 EA 9' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....                                 | 2,480.22                  | 336.64                  |
| For High Contrast Matte, Add  | 40.00                     |                         |
| For Video Spectra Fabric, Add   | 40.00                     |                         |
| For High Power Fabric, Add  | 120.00                    |                         |



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|---|--------------|
| <b>Equipment</b>                            | <b>11</b>    |
| <b>Educational and Scientific Equipment</b> | <b>11 50</b> |
| <b>Audio-Visual Equipment</b>               | <b>11 52</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|---|--------------------------------------|-------------------------|
| 11 52 13 13-0039 EA 8' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....<br><i>For High Contrast Matte, Add</i><br><i>For Video Spectra Fabric, Add</i><br><i>For High Power Fabric, Add</i>  | 2,536.31<br>40.00<br>40.00<br>120.00 | 349.55                  |
| 11 52 13 13-0040 EA 10' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....<br><i>For High Contrast Matte, Add</i><br><i>For Video Spectra Fabric, Add</i><br><i>For High Power Fabric, Add</i> | 2,845.25<br>40.00<br>40.00<br>120.00 | 381.11                  |
| 11 52 13 13-0041 EA 9' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....<br><i>For High Contrast Matte, Add</i><br><i>For Video Spectra Fabric, Add</i><br><i>For High Power Fabric, Add</i>  | 3,121.35<br>40.00<br>40.00<br>120.00 | 381.11                  |
| 11 52 13 13-0042 EA 12' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....<br><i>For High Contrast Matte, Add</i><br><i>For Video Spectra Fabric, Add</i><br><i>For High Power Fabric, Add</i> | 3,559.50<br>40.00<br>40.00<br>120.00 | 508.14                  |
| <b>11 52 13 13-0043 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite<br/>Cosmopolitan Electrol) <sup>(11 52 13 13-0001)</sup></b><br>Note: Heavy-duty screen for exposed installation.   |                                      |                         |
| 11 52 13 13-0044 EA 50" x 50" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 2,515.08                             | 142.92                  |
| 11 52 13 13-0045 EA 60" x 60" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 2,573.43                             | 158.79                  |
| 11 52 13 13-0046 EA 70" x 70" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 2,687.50                             | 190.56                  |
| 11 52 13 13-0047 EA 84" x 84" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 3,106.83                             | 285.83                  |
| 11 52 13 13-0048 EA 6' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 3,183.38                             | 292.18                  |
| 11 52 13 13-0049 EA 8' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 3,380.51                             | 317.58                  |
| 11 52 13 13-0050 EA 7' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 3,447.01                             | 317.58                  |
| 11 52 13 13-0051 EA 9' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 3,619.16                             | 339.82                  |
| 11 52 13 13-0052 EA 8' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....  | 3,829.15                             | 355.70                  |
| 11 52 13 13-0053 EA 10' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 3,967.75                             | 381.11                  |
| 11 52 13 13-0054 EA 9' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....  | 4,087.46                             | 381.11                  |
| 11 52 13 13-0055 EA 12' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol) .....   | 4,549.04                             | 508.14                  |
| <b>11 52 13 13-0056 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite<br/>Professional Electrol) <sup>(11 52 13 13-0001)</sup></b><br>Note: Heavy-duty screen for exposed or recessed installation without doors.               |                                      |                         |
| 11 52 13 13-0057 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....  | 5,974.40                             | 381.11                  |
| 11 52 13 13-0058 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 6,473.91                             | 508.14                  |
| 11 52 13 13-0059 EA 14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 8,012.12                             | 571.66                  |
| 11 52 13 13-0060 EA 12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 8,445.94                             | 635.18                  |
| 11 52 13 13-0061 EA 16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 9,006.79                             | 762.22                  |
| 11 52 13 13-0062 EA 13.5' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 10,054.16                            | 825.73                  |
| 11 52 13 13-0063 EA 18' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 11,009.52                            | 889.25                  |
| 11 52 13 13-0064 EA 15' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 11,623.08                            | 889.25                  |
| 11 52 13 13-0065 EA 20' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 12,521.38                            | 1,016.29                |
| 11 52 13 13-0066 EA 11' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 11,588.06                            | 825.73                  |
| 11 52 13 13-0067 EA 16.5' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 12,275.95                            | 1,016.29                |
| 11 52 13 13-0068 EA 22' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 12,836.80                            | 1,143.32                |
| 11 52 13 13-0069 EA 12' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 12,328.67                            | 889.25                  |
| 11 52 13 13-0070 EA 18' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol) .....   | 15,904.60                            | 1,143.32                |
| <b>11 52 13 13-0071 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Executive<br/>Electrol) <sup>(11 52 13 13-0001)</sup></b><br>Note: In-the-ceiling screen with automatically operated door to conceal screen.              |                                      |                         |
| 11 52 13 13-0072 EA 50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol) .....  | 5,498.02                             | 142.92                  |
| 11 52 13 13-0073 EA 60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol) .....  | 5,621.81                             | 158.79                  |
| 11 52 13 13-0074 EA 70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol) .....  | 5,746.69                             | 190.56                  |
| 11 52 13 13-0075 EA 84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol) .....  | 6,151.99                             | 285.83                  |
| 11 52 13 13-0076 EA 6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....   | 6,226.04                             | 292.18                  |
| 11 52 13 13-0077 EA 8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....   | 6,460.93                             | 317.58                  |

**11 Equipment****11 50 Educational and Scientific Equipment****11 52 Audio-Visual Equipment**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 11 52 13 13-0078 | EA  | 7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                        | 6,645.00                  | 317.58                  |
| 11 52 13 13-0079 | EA  | 9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                        | 6,781.49                  | 339.82                  |
| 11 52 13 13-0080 | EA  | 8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                       | 6,966.64                  | 355.70                  |
| 11 52 13 13-0081 | EA  | 10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                      | 7,140.17                  | 381.11                  |
| 11 52 13 13-0082 | EA  | 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                       | 7,201.52                  | 381.11                  |
| 11 52 13 13-0083 | EA  | 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                      | 7,762.38                  | 508.14                  |
| 11 52 13 13-0084 | EA  | 10.6' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                    | 8,316.74                  | 539.90                  |
| 11 52 13 13-0085 | EA  | 14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                      | 8,687.04                  | 571.66                  |
| 11 52 13 13-0086 | EA  | 12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                      | 9,489.00                  | 635.18                  |
| 11 52 13 13-0087 | EA  | 16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.                      | 9,896.46                  | 762.22                  |
| 11 52 13 13-0088 |     | <b>Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Senior<br/>Electrol)</b> (11 52 13 13-0001)<br>Note: In-the-ceiling screen with automatically operated door to conceal screen. |                           |                         |
| 11 52 13 13-0089 | EA  | 50" x 50" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 4,565.41                  | 142.92                  |
| 11 52 13 13-0090 | EA  | 60" x 60" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 4,671.88                  | 174.68                  |
| 11 52 13 13-0091 | EA  | 70" x 70" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 4,731.25                  | 190.56                  |
| 11 52 13 13-0092 | EA  | 84" x 84" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,010.77                  | 285.83                  |
| 11 52 13 13-0093 | EA  | 6' x 8' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,051.08                  | 292.18                  |
| 11 52 13 13-0094 | EA  | 8' x 8' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,218.47                  | 317.58                  |
| 11 52 13 13-0095 | EA  | 7' x 9' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,381.07                  | 317.58                  |
| 11 52 13 13-0096 | EA  | 9' x 9' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,643.34                  | 339.82                  |
| 11 52 13 13-0097 | EA  | 8' x 10' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.   | 5,718.05                  | 355.70                  |
| 11 52 13 13-0098 | EA  | 10' x 10' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,900.78                  | 381.11                  |
| 11 52 13 13-0099 | EA  | 9' x 12' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.   | 5,905.10                  | 444.63                  |
| 11 52 13 13-0100 | EA  | 12' x 12' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 6,461.63                  | 508.14                  |
| 11 52 13 13-0101 | EA  | 10'-6" x 14' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.   | 8,052.91                  | 539.90                  |
| 11 52 13 13-0102 | EA  | 14' x 14' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 8,407.87                  | 571.66                  |
| 11 52 13 13-0103 | EA  | 12' x 16' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 9,102.45                  | 635.18                  |
| 11 52 13 13-0104 | EA  | 16' x 16' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 9,485.37                  | 762.22                  |
| 11 52 13 13-0105 | EA  | 13'-6" x 18' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.   | 10,333.34                 | 825.73                  |
| 11 52 13 13-0106 | EA  | 18' x 18' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 10,972.70                 | 889.25                  |
| 11 52 13 13-0107 | EA  | 15' x 20' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 11,420.60                 | 889.25                  |
| 11 52 13 13-0108 | EA  | 20' x 20' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 12,631.82                 | 1,016.29                |
| 11 52 13 13-0109 | EA  | 50" x 67" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 4,731.25                  | 190.56                  |
| 11 52 13 13-0110 | EA  | 60" x 80" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 4,947.25                  | 254.07                  |
| 11 52 13 13-0111 | EA  | 69" x 92" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,038.38                  | 285.83                  |
| 11 52 13 13-0112 | EA  | 87" x 116" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.   | 5,748.73                  | 355.70                  |
| 11 52 13 13-0113 | EA  | 105" x 140" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 6,159.73                  | 444.63                  |
| 11 52 13 13-0114 | EA  | 123" x 164" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 7,637.85                  | 571.66                  |
| 11 52 13 13-0115 | EA  | 141" x 188" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 8,125.08                  | 698.70                  |
| 11 52 13 13-0116 | EA  | 12' x 24' Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 14,259.57                 | 952.77                  |
| 11 52 13 13-0117 | EA  | 45" x 80" Electric Projection Screen (Da-Lite Senior Electrol).....<br>Note: Heavy duty screen for recessed or exposed installation.  | 4,962.59                  | 254.07                  |



|   |              |
|---|--------------|
| <b>Equipment</b>                            | <b>11</b>    |
| <b>Educational and Scientific Equipment</b> | <b>11 50</b> |
| <b>Audio-Visual Equipment</b>               | <b>11 52</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 52 13 13-0118 EA 52" x 92" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.   | 5,084.39                  | 285.83                  |
| 11 52 13 13-0119 EA 54" x 96" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.   | 5,211.48                  | 304.89                  |
| 11 52 13 13-0120 EA 58" x 104" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,289.89                  | 330.29                  |
| 11 52 13 13-0121 EA 65" x 116" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.  | 5,601.47                  | 355.70                  |
| 11 52 13 13-0122 EA 78" x 139" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.  | 6,043.15                  | 444.63                  |
| 11 52 13 13-0123 EA 92" x 164" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.  | 7,555.02                  | 571.66                  |
| 11 52 13 13-0124 EA 106" x 188" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.   | 8,735.57                  | 698.70                  |
| 11 52 13 13-0125 EA 119" x 212" Electric Projection Screen (Da-Lite Senior Electrol) .....<br>Note: Heavy duty screen for recessed or exposed installation.   | 10,600.24                 | 825.73                  |
| <b>11 52 13 13-0126 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Boardroom<br/>Electrol) (11 52 13 13-0001)</b><br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   |                           |                         |
| 11 52 13 13-0127 EA 50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 4,922.56                  | 142.92                  |
| 11 52 13 13-0128 EA 60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 5,018.15                  | 158.79                  |
| 11 52 13 13-0129 EA 70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 5,129.57                  | 190.56                  |
| 11 52 13 13-0130 EA 84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 5,485.05                  | 285.83                  |
| 11 52 13 13-0131 EA 6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 5,550.95                  | 292.18                  |
| 11 52 13 13-0132 EA 8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 5,716.16                  | 317.58                  |
| 11 52 13 13-0133 EA 7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 5,894.40                  | 317.58                  |
| 11 52 13 13-0134 EA 9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 6,053.24                  | 339.82                  |
| 11 52 13 13-0135 EA 8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.  | 6,170.13                  | 355.70                  |
| 11 52 13 13-0136 EA 10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 6,356.61                  | 381.11                  |
| 11 52 13 13-0137 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.  | 6,540.16                  | 381.11                  |
| 11 52 13 13-0138 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) .....<br>Note: In-the-ceiling screen with automatically operated door to conceal screen.   | 6,948.54                  | 508.14                  |
| <b>11 52 13 13-0139 Electric Ascending Project Screen, Matte White, Glass Beaded (Da-Lite<br/>Ascender Electrol) (11 52 13 13-0001)</b><br>Note: High contrast matte white, video spectrum or high power. Includes a motorized spring assisted scissors mechanism which raises the screen surface from the housing ensuring smooth operation. A trap door housing keeps the screen and lift mechanism hidden until the screen is activated. |                           |                         |
| 11 52 13 13-0140 EA 60" x 80" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 14,069.08                 | 317.58                  |
| 11 52 13 13-0141 EA 69" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 15,055.09                 | 381.11                  |
| 11 52 13 13-0142 EA 87" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.   | 17,522.30                 | 571.66                  |
| 11 52 13 13-0143 EA 105" x 140" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 22,075.62                 | 762.22                  |
| 11 52 13 13-0144 EA 120" x 160" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 24,477.16                 | 889.25                  |
| 11 52 13 13-0145 EA 52" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 14,928.06                 | 317.58                  |
| 11 52 13 13-0146 EA 58" x 104" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.   | 16,312.89                 | 381.11                  |
| 11 52 13 13-0147 EA 65" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.   | 17,268.23                 | 444.63                  |
| 11 52 13 13-0148 EA 78" x 139" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.   | 21,694.51                 | 571.66                  |
| <b>11 52 13 13-0149 Electric Rear Projection Screen (Da-Lite DA-View) (11 52 13 13-0001)</b><br>Note: Consists of a single acrylic layer with rear Fensel lens and lenticulated front profile. Un-framed.   |                           |                         |
| 11 52 13 13-0150 EA 60" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 4,707.22                  | 317.58                  |
| 11 52 13 13-0151 EA 67" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 5,902.49                  | 349.35                  |
| 11 52 13 13-0152 EA 72" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 6,758.23                  | 381.11                  |
| 11 52 13 13-0153 EA 84" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.  | 12,140.97                 | 412.86                  |

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| <b>11</b> | <b>11 Equipment</b>                               |
|           | <b>11 50 Educational and Scientific Equipment</b> |
|           | <b>11 52 Audio-Visual Equipment</b>               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 52 13 13-0154 EA 90" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.      | 13,449.41                 | 13,004.79               |
| 11 52 13 13-0155 EA 96" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.      | 14,934.55                 | 508.14                  |
| 11 52 13 13-0156 EA 100" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.     | 19,135.88                 | 571.66                  |
| 11 52 13 13-0157 EA 120" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.     | 25,827.07                 | 635.18                  |
| 11 52 13 13-0158 EA 125" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.     | 28,896.65                 | 698.70                  |
| 11 52 13 13-0159 EA 135" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) .....<br>Note: Includes a motorized spring assisted scissors mechanism and trap door housing.     | 38,643.57                 | 762.22                  |
| <b>11 52 13 13-0160 Screen Accessories (11 52 13 13-0001)</b>   |                           |                         |
| <b>11 52 13 13-0161 Manual Pull Down Accessories (11 52 13 13-0160)</b>   |                           |                         |
| 11 52 13 13-0162 EA 6" Mounting Bracket (Pair).....   | 74.28                     | 9.53                    |
| 11 52 13 13-0163 EA 14" Wall Mounting Bracket (Pair).....   | 104.96                    | 10.16                   |
| 11 52 13 13-0164 EA 14-1/2" To 24" Adjustable Wall Mounting Bracket (Pair).....   | 123.37                    | 11.43                   |
| <b>11 52 13 13-0165 Electric Powered Screen Accessories (11 52 13 13-0160)</b>  |                           |                         |
| 11 52 13 13-0166 EA Single Motor Low Voltage Remote Control System - Infrared.....  | 764.95                    |                         |
| 11 52 13 13-0167 EA Single Motor Low Voltage Remote Control System - Radio Frequency.....   | 1,102.41                  |                         |
| <b>11 52 13 13-0168 Relocate Existing Fixed Projection Screen (11 52 13 13)</b>   |                           |                         |
| 11 52 13 13-0169 EA Relocate Electric Controlled Projection Screen, Including Storage And Cleaning .....  | 1,868.17                  |                         |
| <b>11 52 13 16 Portable Projection Screens (11 52 13)</b>   |                           |                         |
| <b>11 52 13 16-0001 Motion Picture Screen And Case (11 52 13 16)</b>  |                           |                         |
| 11 52 13 16-0002 SF Screen, Riser Projection With Anodized Aluminum Frame.....  | 49.37                     | 4.58                    |
| <b>11 52 16 Projectors (11 52)</b>  |                           |                         |
| <b>11 52 16 26 Video Projectors (11 52 16)</b>  |                           |                         |
| <b>11 52 16 26-0001 Projectors (11 52 16 26)</b>  |                           |                         |
| 11 52 16 26-0002 EA 2,000 Lumens Output, 800 x 600 Pixels, SVGA Compact 3LCD Panels Projector.....  | 1,359.66                  | 63.51                   |
| 11 52 16 26-0003 EA 2,000 Lumens Output, 1024 x 768 Pixels, XGA Compact 3LCD Panels Projector.....  | 1,575.36                  | 63.51                   |
| 11 52 16 26-0004 EA 2,000 Lumens Output, 1280 x 800 Pixels, WXGA Compact 3LCD Panels Projector.....   | 2,083.82                  | 63.51                   |
| 11 52 16 26-0005 EA 3,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector .....   | 3,285.62                  | 63.51                   |
| 11 52 16 26-0006 EA 3,500 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector .....   | 3,824.89                  | 63.51                   |
| 11 52 16 26-0007 EA 3,000 Lumens Output, 1366 x 800 Pixels, WXGA 3LCD Panels Projector .....  | 4,857.20                  | 63.51                   |
| 11 52 16 26-0008 EA 4,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector .....   | 7,723.04                  | 63.51                   |
| 11 52 16 26-0009 EA 5,200 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector .....   | 10,465.61                 | 63.51                   |
| 11 52 16 26-0010 EA 6,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector .....   | 15,534.74                 | 63.51                   |
| <b>11 52 16 26-0011 Projector Mounts (11 52 16 26)</b>  |                           |                         |
| <b>11 52 16 26-0012 Universal Projector Mounts (11 52 16 26-0011)</b><br>Note: Includes ceiling or wall mounting hardware and hardware for attaching projector. Excludes projector.             |                           |                         |
| 11 52 16 26-0013 EA Flush Ceiling, Universal Projector Mount (Peerless PPF).....  | 299.47                    | 69.85                   |
| 11 52 16 26-0014 EA Wall Arm, Universal Projector Mount (Peerless PWA-14).....  | 490.74                    | 69.85                   |
| <b>11 52 16 26-0015 Projector Mount Components (11 52 16 26-0011)</b><br>Note: Includes ceiling attachment plate, threaded extension column and projector attachment plate. Excludes projector. |                           |                         |
| <b>11 52 16 26-0016 Ceiling Attachment Plates For Projector Mounts (11 52 16 26-0015)</b>   |                           |                         |
| 11 52 16 26-0017 EA Finished Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 570).....   | 108.98                    | 31.75                   |
| 11 52 16 26-0018 EA Truss Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 557).....  | 148.23                    | 31.75                   |
| 11 52 16 26-0019 EA I-Beam Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 558/559).....   | 206.34                    | 31.75                   |
| 11 52 16 26-0020 EA Suspended Ceiling, Attachment Plate For Projector Mounts (Peerless CMJ 455).....  | 255.96                    | 31.75                   |
| <b>11 52 16 26-0021 Projector Attachment Plates For Projector Mounts (11 52 16 26-0015)</b>   |                           |                         |
| 11 52 16 26-0022 EA Universal Projector Attachment Plate For Projector Mounts (Peerless PRG-UNV) .....  | 378.22                    | 31.75                   |
| 11 52 16 26-0023 EA High Security Projector Enclosure For Projector Mounts (Peerless ALB).....  | 835.86                    | 31.75                   |
| <b>11 52 16 26-0024 Threaded Extension Columns For Projector Mounts (11 52 16 26-0015)</b>  |                           |                         |
| <b>11 52 16 26-0025 Fixed Length, Threaded Extension Column For Projector Mounts (11 52 16 26-0024)</b><br>Note: Peerless EXT series.   |                           |                         |
| 11 52 16 26-0026 EA 6" Fixed Length, Threaded Extension Column For Projector Mounts .....   | 65.05                     | 9.52                    |
| 11 52 16 26-0027 EA 12" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 84.42                     | 9.52                    |



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| <b>Equipment</b>                            | <b>11</b>    |
| <b>Educational and Scientific Equipment</b> | <b>11 50</b> |
| <b>Audio-Visual Equipment</b>               | <b>11 52</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 11 52 16 26-0028 EA 18" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 91.69                     | 9.52                    |
| 11 52 16 26-0029 EA 24" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 96.53                     | 9.52                    |
| 11 52 16 26-0030 EA 36" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 114.97                    | 12.70                   |
| 11 52 16 26-0031 EA 48" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 139.19                    | 12.70                   |
| 11 52 16 26-0032 EA 60" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 177.93                    | 12.70                   |
| 11 52 16 26-0033 EA 72" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 204.56                    | 12.70                   |
| 11 52 16 26-0034 EA 84" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 239.97                    | 15.87                   |
| 11 52 16 26-0035 EA 96" Fixed Length, Threaded Extension Column For Projector Mounts .....  | 273.87                    | 15.87                   |
| 11 52 16 26-0036 EA 108" Fixed Length, Threaded Extension Column For Projector Mounts ..... | 304.43                    | 19.05                   |
| 11 52 16 26-0037 EA 120" Fixed Length, Threaded Extension Column For Projector Mounts ..... | 318.96                    | 19.05                   |

**11 52 16 26-0038 Adjustable Length, Threaded Extension Columns For Projector Mounts <sup>(11 52 16</sup>**

<sup>26-0024</sup>  
Note: Peerless ADJ series. Adjustable at 1" increments.

|  |        |       |
|--|--------|-------|
| 11 52 16 26-0039 EA 6" To 9" Adjustable Length, Threaded Extension Column For Projector Mounts .....     | 133.44 | 15.87 |
| 11 52 16 26-0040 EA 12" To 18" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 206.08 | 15.87 |
| 11 52 16 26-0041 EA 18" To 24" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 210.92 | 15.87 |
| 11 52 16 26-0042 EA 24" To 36" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 218.18 | 15.87 |
| 11 52 16 26-0043 EA 36" To 60" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 236.64 | 19.05 |
| 11 52 16 26-0044 EA 48" To 72" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 248.75 | 19.05 |
| 11 52 16 26-0045 EA 60" To 84" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 275.38 | 19.05 |
| 11 52 16 26-0046 EA 72" To 96" Adjustable Length, Threaded Extension Column For Projector Mounts .....   | 299.59 | 19.05 |
| 11 52 16 26-0047 EA 84" To 108" Adjustable Length, Threaded Extension Column For Projector Mounts .....  | 332.56 | 22.23 |
| 11 52 16 26-0048 EA 96" To 120" Adjustable Length, Threaded Extension Column For Projector Mounts .....  | 356.78 | 22.23 |
| 11 52 16 26-0049 EA 108" To 132" Adjustable Length, Threaded Extension Column For Projector Mounts ..... | 389.77 | 25.39 |
| 11 52 16 26-0050 EA 120" To 144" Adjustable Length, Threaded Extension Column For Projector Mounts ..... | 406.72 | 25.39 |

**11 53 Laboratory Equipment <sup>(11 50)</sup>**

**11 53 43 Service Fittings and Accessories <sup>(11 53)</sup>**

|   |          |  |
|---|----------|--|
| 11 53 43 00-0001 Outlet And Valves <sup>(11 53 43)</sup>                          |          |  |
| 11 53 43 00-0002 EA Medical Outlet Conversion Kit (Air, Oxygen, And Vacuum) ..... | 1,147.84 |  |
| 11 53 43 00-0003 Test And Certify <sup>(11 53 43)</sup>                           |          |  |
| 11 53 43 00-0004 EA Test And Certify Medical Gas Port .....                       | 76.59    |  |

**11 70 Healthcare Equipment <sup>(11)</sup>**

**11 73 Patient Care Equipment <sup>(11 70)</sup>**

**11 73 23 Patient Lift <sup>(11 73)</sup>**

|  |           |  |
|--|-----------|--|
| 11 73 23 00-0001 Ceiling Patient Lift <sup>(11 73 23)</sup>                  |           |  |
| 11 73 23 00-0002 EA Maxi Sky 600 Fixed 4 Function Ceiling Patient Lift ..... | 13,745.50 |  |

Note: Maxi Sky 600 cassette with 600 pound weight capacity. Includes 2 point hanger bar, hardware (x-y 3 meter x 4.5 meter 8 anchors xy 4.5), powered raise and lower as well as powered traverse on track. Maxi sky supports clinically activated return to charge, programmable automatic return.

**11 80 Facility Maintenance and Operation Equipment <sup>(11)</sup>**

**11 81 Maintenance Equipment <sup>(11 80)</sup>**

**11 81 29 Facility Fall Protection <sup>(11 81)</sup>**

|  |        |       |
|--|--------|-------|
| 11 81 29 00-0001 Safety And Tie-Back Anchors <sup>(11 81 29)</sup>   |        |       |
| Note: One cut sheet charge required per manufacturer order. Excludes flashing and testing by engineer after installation. See CSI section 01 22 20 00-0050 for engineering testing and inspection.   |        |       |
| 11 81 29 00-0002 Roof Mounted, Safety And Tie-Back Anchors <sup>(11 81 29 00-0001)</sup>   |        |       |
| Note: Includes up to 10" high, 0.216" thick hollow structural section tube, 1018 steel forged pad eye, 8" x 8" x 1/2" base plate and hot-dipped galvanized finish.   |        |       |
| 11 81 29 00-0003 EA Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor) ..... | 806.59 | 95.28 |
| Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.  |        |       |
| For Stainless Steel Pad Eye, Add   |        | 40.00 |
| For Foam Insulation Filled HSS Tube, Add   |        | 10.00 |
| 11 81 29 00-0004 EA Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor) .....        | 693.09 | 95.28 |
| Note: Includes drilling in concrete and adhesive anchor systems.   |        |       |
| For Stainless Steel Pad Eye, Add   |        | 40.00 |
| For Foam Insulation Filled HSS Tube, Add   |        | 10.00 |



|           |   |
|-----------|---|
| <b>11</b> | <b>11 Equipment</b>                                       |
|           | <b>11 80 Facility Maintenance and Operation Equipment</b> |
|           | <b>11 81 Maintenance Equipment</b>                        |



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|---|------------------------|----------------------|
| 11 81 29 00-0005  | EA  |     | Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor)..... | 495.58                 | 84.36                |
|   |     |     | <i>For Stainless Steel Pad Eye, Add</i> .....   | 40.00                  |                      |
|   |     |     | <i>For Foam Insulation Filled HSS Tube, Add</i> .....   | 10.00                  |                      |
| <b>11 81 29 00-0006</b>   |     |     | <b>Wall Mounted, Safety And Tie-Back Anchor</b> <small>(11 81 29 00-0001)</small>   |                        |                      |
|   |     |     | Note: Includes 1018 steel forged pad eye, 10" x 4" x 1/2" base plate and hot-dipped galvanized finish.  |                        |                      |
| 11 81 29 00-0007  | EA  |     | Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....  | 569.72                 | 95.28                |
|   |     |     | Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.   |                        |                      |
|   |     |     | <i>For Stainless Steel Pad Eye, Add</i> .....   | 40.00                  |                      |
| 11 81 29 00-0008  | EA  |     | Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....   | 514.33                 | 95.28                |
|   |     |     | Note: Includes drilling in concrete and adhesive anchor systems.  |                        |                      |
|   |     |     | <i>For Stainless Steel Pad Eye, Add</i> .....   | 40.00                  |                      |
| 11 81 29 00-0009  | EA  |     | Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....  | 435.05                 | 84.36                |
|   |     |     | <i>For Stainless Steel Pad Eye, Add</i> .....   | 40.00                  |                      |
| <b>11 81 29 00-0010</b>   |     |     | <b>Safety And Tie-Back Anchor Accessories</b> <small>(11 81 29 00-0001)</small>   |                        |                      |
| 11 81 29 00-0011  | EA  |     | Mandatory Cut Sheets For Safety And Tie-Back Anchors (Summit Anchor).....   | 440.22                 |                      |
|   |     |     | Note: One cut sheet required per order.   |                        |                      |
| <b>11 81 29 00-0012</b>   |     |     | <b>Ladder Safety And Fall Protection</b> <small>(11 81 29)</small>  |                        |                      |
| 11 81 29 00-0013  | EA  |     | Galvanized Standard Top Bracket With Mounting Hardware (Captial Safety Group-USA Lad-Saf™ 6116280).....   | 284.88                 | 18.61                |
| 11 81 29 00-0014  | EA  |     | Galvanized 1x7 Cable, 3/8" 24' Long (Captial Safety Group-USA Lad-Saf™ 6110024).....  | 42.87                  | 2.71                 |
| 11 81 29 00-0015  | EA  |     | Galvanized 1x7 Cable, 3/8" 30' Long (Captial Safety Group-USA Lad-Saf™ 6110030).....  | 53.59                  | 6.77                 |
| 11 81 29 00-0016  | EA  |     | Galvanized 1x7 Cable, 3/8" 40' Long (Captial Safety Group-USA Lad-Saf™ 6110040).....  | 71.45                  | 4.51                 |
| 11 81 29 00-0017  | EA  |     | Galvanized 1x7 Cable, 3/8" 50' Long (Captial Safety Group-USA Lad-Saf™ 6110050).....  | 89.31                  | 5.64                 |
| 11 81 29 00-0018  | EA  |     | Non-metallic Cable Guide With Mounting Hardware (Captial Safety Group-USA Lad-Saf™ 6110400).....  | 58.63                  | 4.23                 |
| 11 81 29 00-0019  | EA  |     | Flexible Cable Sleeve (Captial Safety Group-USA Lad-Saf™ 6160054).....  | 545.19                 | 11.28                |
| 11 81 29 00-0020  | EA  |     | Galvanized Standard Bottom Bracket (Captial Safety Group-USA Lad-Saf™ 6100090).....   | 131.40                 | 11.17                |
| <b>11 81 29 00-0021</b>   |     |     | <b>Fall-Arrest Systems</b> <small>(11 81 29)</small>  |                        |                      |
| <b>11 81 29 00-0022</b>   |     |     | <b>Horizontal</b> <small>(11 81 29 00-0021)</small>   |                        |                      |
| 11 81 29 00-0023  | LF  |     | Trolley Rail Fall Arrest System.....  | 771.68                 | 51.15                |
|   |     |     | Note: Price per LF of trolley rail. Includes engineering, certification, design, fabrication, delivery, installation, training materials, equipment and five year warranty.   |                        |                      |
| <b>11 81 29 00-0024</b>   |     |     | <b>Anchor Points</b> <small>(11 81 29 00-0021)</small>  |                        |                      |
| 11 81 29 00-0025  | EA  |     | Roof Anchor, 16" x 16" Base With 12" High Post.....   | 655.67                 |                      |
|   |     |     | Note: Guardian CD-12 series   |                        |                      |
| 11 81 29 00-0026  | EA  |     | Roof Anchor, 12" x 12" Base With 18" High Post.....   | 765.35                 |                      |
|   |     |     | Note: Guardian CD-18 series   |                        |                      |
| 11 81 29 00-0027  | EA  |     | Bolt On Roof Anchor.....  | 293.31                 |                      |
|   |     |     | Note: Guardian CD-1-B series  |                        |                      |
| 11 81 29 00-0028  | EA  |     | Fall Arrest Anchor Attachment To 2" x 8" Stud.....  | 140.84                 |                      |
|   |     |     | Note: Super Anchor ARS 2x8  |                        |                      |
| 11 81 29 00-0029  | EA  |     | Fall Arrest Anchor Attachment To 2" x 12" Stud.....   | 163.84                 |                      |
|   |     |     | Note: Super Anchor ARS 2x12   |                        |                      |
| <b>11 82 Facility Solid Waste Handling Equipment</b> <small>(11 80)</small> |     |     |   |                        |                      |
| <b>11 82 19 Packaged Incinerators</b> <small>(11 82)</small>                |     |     |   |                        |                      |
| <b>11 82 19 00-0001</b>   |     |     | <b>Electric Incinerator</b> <small>(11 82 19)</small>   |                        |                      |
| 11 82 19 00-0002  | EA  |     | Electric Package Incinerator, 100 LB/Hour.....  | 42,954.85              | 1,021.94             |
| 11 82 19 00-0003  | EA  |     | Electric Package Incinerator, 400 LB/Hour.....  | 87,905.11              | 2,043.89             |
| 11 82 19 00-0004  | EA  |     | Electric Package Incinerator, 1,000 LB/Hour.....  | 298,321.96             | 3,065.83             |
| <b>11 82 26 Facility Waste Compactors</b> <small>(11 82)</small>            |     |     |   |                        |                      |
| <b>11 82 26 00-0001</b>   |     |     | <b>Waste Compactors</b> <small>(11 82 26)</small>   |                        |                      |
| <b>11 82 26 00-0002</b>   |     |     | <b>110 Volt Compactors</b> <small>(11 82 26 00-0001)</small>  |                        |                      |
| 11 82 26 00-0003  | EA  |     | Waste Compactor, 110 Volt At 75 LB/Hour.....  | 23,452.53              | 567.09               |
| 11 82 26 00-0004  | EA  |     | Waste Compactor, 110 Volt At 250 LB/Hour.....   | 29,325.50              | 1,361.02             |
| <b>11 82 26 00-0005</b>   |     |     | <b>230 Volt Compactors</b> <small>(11 82 26 00-0001)</small>  |                        |                      |
| 11 82 26 00-0006  | EA  |     | Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed.....  | 29,135.97              | 1,814.69             |
| 11 82 26 00-0007  | EA  |     | Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed.....   | 32,754.33              | 2,381.79             |



|  |   |           |
|--|---|-----------|
|  | <b>Equipment</b>                        | <b>11</b> |
|  | Other Equipment                         | 11 90     |
|  | Facility Solid Waste Handling Equipment | 11 82     |

|                     |              |            |
|---------------------|--------------|------------|
| MINOR               | TOTAL DIRECT | DEMOLITION |
| CSI UOM DESCRIPTION | UNIT COST    | UNIT COST  |

**11 90 Other Equipment** <sup>(11)</sup>

**11 98 Detention Equipment** <sup>(11 90)</sup>

**11 98 12 Detention Doors and Frames** <sup>(11 98)</sup>

**11 98 12 00-0001 Metal Frames** <sup>(11 98 12)</sup>

Note: Combination buck, jamb, and trim, fully seam welded.

**11 98 12 00-0002 Metal Frames 4-3/4" Depth x 7 Gauge x 1-3/4"** <sup>(11 98 12 00-0001)</sup>

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 11 98 12 00-0003 | EA | 2' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 702.04   | 198.43 |
| 11 98 12 00-0004 | EA | 2'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 702.04   | 198.43 |
| 11 98 12 00-0005 | EA | 2'-6" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 702.04   | 198.43 |
| 11 98 12 00-0006 | EA | 2'-8" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 702.04   | 198.43 |
| 11 98 12 00-0007 | EA | 3' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 708.02   | 198.43 |
| 11 98 12 00-0008 | EA | 3'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 708.02   | 198.43 |
| 11 98 12 00-0009 | EA | 6' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 1,006.03 | 317.58 |
| 11 98 12 00-0010 | EA | 2' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....       | 719.99   | 198.43 |
| 11 98 12 00-0011 | EA | 2'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 719.99   | 198.43 |
| 11 98 12 00-0012 | EA | 2'-6" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 719.99   | 198.43 |
| 11 98 12 00-0013 | EA | 2'-8" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 737.93   | 198.43 |
| 11 98 12 00-0014 | EA | 3' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....       | 870.26   | 264.61 |
| 11 98 12 00-0015 | EA | 3'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 870.26   | 264.61 |
| 11 98 12 00-0016 | EA | 6' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....       | 1,041.92 | 317.58 |
| 11 98 12 00-0017 | EA | 2' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 719.99   | 198.43 |
| 11 98 12 00-0018 | EA | 2'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 719.99   | 198.43 |
| 11 98 12 00-0019 | EA | 2'-6" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 719.99   | 198.43 |
| 11 98 12 00-0020 | EA | 2'-8" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 719.99   | 198.43 |
| 11 98 12 00-0021 | EA | 3' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 725.97   | 198.43 |
| 11 98 12 00-0022 | EA | 3'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 725.97   | 198.43 |
| 11 98 12 00-0023 | EA | 6' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 1,023.97 | 317.58 |

**11 98 12 00-0024 Metal Frames 6-3/4" Depth x 7 Gauge x 1-3/4"** <sup>(11 98 12 00-0001)</sup>

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 11 98 12 00-0025 | EA | 2' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 719.98   | 198.43 |
| 11 98 12 00-0026 | EA | 2'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 719.98   | 198.43 |
| 11 98 12 00-0027 | EA | 2'-6" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 719.98   | 198.43 |
| 11 98 12 00-0028 | EA | 2'-8" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 719.98   | 198.43 |
| 11 98 12 00-0029 | EA | 3' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 731.94   | 198.43 |
| 11 98 12 00-0030 | EA | 3'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 731.94   | 198.43 |
| 11 98 12 00-0031 | EA | 6' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 1,023.96 | 317.58 |
| 11 98 12 00-0032 | EA | 2' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....       | 719.98   | 198.43 |
| 11 98 12 00-0033 | EA | 2'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 719.98   | 198.43 |
| 11 98 12 00-0034 | EA | 2'-6" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 737.92   | 198.43 |
| 11 98 12 00-0035 | EA | 2'-8" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 737.92   | 198.43 |
| 11 98 12 00-0036 | EA | 3' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....       | 870.25   | 264.61 |
| 11 98 12 00-0037 | EA | 3'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 870.25   | 264.61 |
| 11 98 12 00-0038 | EA | 6' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....       | 1,240.93 | 352.65 |
| 11 98 12 00-0039 | EA | 2' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 737.92   | 198.43 |
| 11 98 12 00-0040 | EA | 2'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 737.92   | 198.43 |
| 11 98 12 00-0041 | EA | 2'-6" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 737.92   | 198.43 |
| 11 98 12 00-0042 | EA | 2'-8" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 737.92   | 198.43 |
| 11 98 12 00-0043 | EA | 3' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 743.90   | 198.43 |
| 11 98 12 00-0044 | EA | 3'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door..... | 743.90   | 198.43 |
| 11 98 12 00-0045 | EA | 6' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door.....    | 1,041.90 | 317.58 |

**11 98 12 00-0046 Metal Detention Doors** <sup>(11 98 12)</sup>

Note: Flush type reinforced with stiffeners.

**11 98 12 00-0047 10 Gauge 1-3/4" Metal Detention Door** <sup>(11 98 12 00-0046)</sup>

|                  |    |   |          |       |
|------------------|----|---|----------|-------|
| 11 98 12 00-0048 | EA | 2' x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door.....    | 793.02   | 70.51 |
| 11 98 12 00-0049 | EA | 2'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door..... | 802.34   | 70.51 |
| 11 98 12 00-0050 | EA | 2'-6" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door..... | 811.65   | 70.51 |
| 11 98 12 00-0051 | EA | 2'-8" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door..... | 820.96   | 70.51 |
| 11 98 12 00-0052 | EA | 3' x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door.....    | 830.27   | 70.51 |
| 11 98 12 00-0053 | EA | 3'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door..... | 876.84   | 70.51 |
| 11 98 12 00-0054 | EA | 2' x 7' x 1-3/4" 10 Gauge Metal Detention Door.....       | 850.95   | 70.51 |
| 11 98 12 00-0055 | EA | 2'-4" x 7' x 1-3/4" 10 Gauge Metal Detention Door.....    | 860.63   | 70.51 |
| 11 98 12 00-0056 | EA | 2'-6" x 7' x 1-3/4" 10 Gauge Metal Detention Door.....    | 866.72   | 70.51 |
| 11 98 12 00-0057 | EA | 2'-8" x 7' x 1-3/4" 10 Gauge Metal Detention Door.....    | 951.52   | 70.51 |
| 11 98 12 00-0058 | EA | 3' x 7' x 1-3/4" 10 Gauge Metal Detention Door.....       | 1,156.21 | 70.51 |
| 11 98 12 00-0059 | EA | 3'-4" x 7' x 1-3/4" 10 Gauge Metal Detention Door.....    | 1,261.50 | 70.51 |
| 11 98 12 00-0060 | EA | 2' x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door.....    | 825.62   | 70.51 |
| 11 98 12 00-0061 | EA | 2'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door..... | 834.93   | 70.51 |
| 11 98 12 00-0062 | EA | 2'-6" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door..... | 844.24   | 70.51 |
| 11 98 12 00-0063 | EA | 2'-8" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door..... | 853.56   | 70.51 |
| 11 98 12 00-0064 | EA | 3' x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door.....    | 862.87   | 70.51 |
| 11 98 12 00-0065 | EA | 3'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door..... | 909.43   | 70.51 |

|    |                                  |
|----|----------------------------------|
| 11 | <b>11 Equipment</b>              |
|    | <b>11 90 Other Equipment</b>     |
|    | <b>11 98 Detention Equipment</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>11 98 12 00-0066 Pneumatic Door Operators</b> <small>(11 98 12)</small>   |                           |                         |
| 11 98 12 00-0067 EA Pneumatic Detention Cell Entry Door Operator With Hardware Set .....   | 5,722.93                  |                         |
| 11 98 12 00-0068 EA Pneumatic Special Housing Detention Cell Door Operator With Hardware Set .....   | 6,371.88                  |                         |
| 11 98 12 00-0069 EA Pneumatic MS Detention Cell Door Operator With Hardware Set .....  | 8,334.10                  |                         |
| 11 98 12 00-0070 EA Pneumatic Sally Port Detention Door Operator With Hardware Set .....   | 9,748.83                  |                         |
| 11 98 12 00-0071 EA Pneumatic Corridor Detention Door Operator With Hardware Set.....  | 12,442.69                 |                         |
| 11 98 12 00-0072 EA Emergency Release Cabinet With Seven Gallon Storage Tank, Check Valve, Pressure Gauge, Three Way Valves<br>And Four Release Valves ..... | 6,027.85                  |                         |
| <b>11 98 12 00-0073 Security Doors And Frame Assembly</b> <small>(11 98 12)</small>  |                           |                         |
| 11 98 12 00-0074 EA 2'-6" x 6'-8", 7 Gauge Flat Door With 7 Gauge Reinforcement Plate, Security Detention Doors And Frames .....                             | 12,867.99                 | 466.83                  |
| Note: Complete, with hardware, single plate.<br><i>For 5" x 15-1/2" Opening Food Pass Assembly, Add</i>  | <i>105.00</i>             |                         |
| 11 98 12 00-0075 EA 2'-6" x 6'-8", 7 Gauge Flat Door With Double 7 Gauge Reinforcement Plate, Security Detention Doors And<br>Frames .....                   | 15,670.06                 | 463.82                  |
| Note: Complete, with hardware, double plate.<br><i>For 5" x 15-1/2" Opening Food Pass Assembly, Add</i>  | <i>105.00</i>             |                         |

**END OF SECTION 11**



|                                     |              |           |
|-------------------------------------|--------------|-----------|
| <b>Special Construction</b>         | <b>13</b>    | <b>13</b> |
| <b>Special Purpose Rooms</b>        | <b>13 20</b> |           |
| <b>Controlled Environment Rooms</b> | <b>13 21</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 13 Special Construction

### 13 20 Special Purpose Rooms <sup>(13)</sup>

#### 13 21 Controlled Environment Rooms <sup>(13 20)</sup>

##### 13 21 26 Cold Storage Rooms <sup>(13 21)</sup>

##### 13 21 26 13 Walk-in Coolers <sup>(13 21 26)</sup> See CSI section 11 41 23 00-0000 for walk-in coolers.

### 13 30 Special Structures <sup>(13)</sup>

#### 13 34 Fabricated Engineered Structures <sup>(13 30)</sup>

##### 13 34 19 Metal Building Systems <sup>(13 34)</sup>

Note: Includes material, delivery to site, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site.

##### 13 34 19 00-0001 Pre-Engineered Metal Buildings <sup>(13 34 19)</sup>

Note: Free standing base buildings have a live load of 12 PSF and a wind load of 16.4 PSF (80 MPH). Includes anchoring and fasteners to concrete foundation. Includes design for foundation footings and piers. Includes a prime coated structural frame, painted steel wall panels 26 gauge, standing seam roof panels 26 gauge, roof 1 in 12 slope. Includes material, delivery to site, lifting equipment (crane) for erection, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site. Eave height is measured from the top of slab to the underside of the roof deck. Excludes foundations, slab and anchor bolts embedded in concrete. See CSI section 13 34 19 00-0109 for metal building options.

##### 13 34 19 00-0002 Clear Span Rigid Frame Pre-Engineered Metal Buildings <sup>(13 34 19 00-0001)</sup>

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

##### 13 34 19 00-0003 20' To 30' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings <sup>(13 34 19 00-0002)</sup>

|                  |  |       |      |
|------------------|--|-------|------|
| 13 34 19 00-0004 | GSF 10' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....  | 30.35 | 7.87 |
|                  | For 20' To 29' In Length Only, Add   | 3.58  |      |
|                  | For 30' To 49' In Length Only, Add   | 2.82  |      |
|                  | For 50' To 69' In Length Only, Add   | 1.65  |      |
|                  | For 70' To 99' In Length Only, Add   | 0.68  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.91  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.52  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.28  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 2.96  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.64  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 5.77  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 7.28  |      |
|                  | For Single Slope Frame Roof, Add   | 1.89  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 0.88  |      |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add   | 1.08  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97 |      |
| 13 34 19 00-0005 | GSF 12' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....  | 32.48 | 8.65 |
|                  | For 20' To 29' In Length Only, Add   | 3.69  |      |
|                  | For 30' To 49' In Length Only, Add   | 2.90  |      |
|                  | For 50' To 69' In Length Only, Add   | 1.70  |      |
|                  | For 70' To 99' In Length Only, Add   | 0.70  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.97  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.62  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.44  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.17  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.90  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 6.17  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 7.80  |      |
|                  | For Single Slope Frame Roof, Add   | 1.94  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 0.94  |      |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add   | 1.17  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97 |      |
| 13 34 19 00-0006 | GSF 14' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....  | 34.85 | 9.54 |
|                  | For 20' To 29' In Length Only, Add   | 3.79  |      |
|                  | For 30' To 49' In Length Only, Add   | 2.98  |      |
|                  | For 50' To 69' In Length Only, Add   | 1.74  |      |
|                  | For 70' To 99' In Length Only, Add   | 0.72  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.05  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.74  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.61  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.40  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.18  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 6.62  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 8.36  |      |
|                  | For Single Slope Frame Roof, Add   | 2.00  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 1.00  |      |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add   | 1.28  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97 |      |

**13 Special Construction**

**13 30 Special Structures**

**13 34 Fabricated Engineered Structures**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 13 34 | 19 00-0007 | GSF | 16' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....       | 37.50                  | 10.43                |
|       |            |     | For 20' To 29' In Length Only, Add   | 3.97                   |                      |
|       |            |     | For 30' To 49' In Length Only, Add   | 3.12                   |                      |
|       |            |     | For 50' To 69' In Length Only, Add   | 1.82                   |                      |
|       |            |     | For 70' To 99' In Length Only, Add   | 0.75                   |                      |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.13                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.88                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.81                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.66                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.50                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 7.13                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 9.00                   |                      |
|       |            |     | For Single Slope Frame Roof, Add   | 2.09                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 1.08                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 1.40                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97                  |                      |
| 13 34 | 19 00-0008 | GSF | 18' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....       | 40.24                  | 11.32                |
|       |            |     | For 20' To 29' In Length Only, Add   | 4.18                   |                      |
|       |            |     | For 30' To 49' In Length Only, Add   | 3.28                   |                      |
|       |            |     | For 50' To 69' In Length Only, Add   | 1.92                   |                      |
|       |            |     | For 70' To 99' In Length Only, Add   | 0.79                   |                      |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.21                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 2.01                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 3.02                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.92                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.83                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 7.65                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 9.66                   |                      |
|       |            |     | For Single Slope Frame Roof, Add   | 2.20                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 1.15                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 1.51                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97                  |                      |
| 13 34 | 19 00-0009 | GSF | 20' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....       | 44.37                  | 12.16                |
|       |            |     | For 20' To 29' In Length Only, Add   | 4.82                   |                      |
|       |            |     | For 30' To 49' In Length Only, Add   | 3.79                   |                      |
|       |            |     | For 50' To 69' In Length Only, Add   | 2.21                   |                      |
|       |            |     | For 70' To 99' In Length Only, Add   | 0.91                   |                      |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.33                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 2.22                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 3.33                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 4.33                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 5.32                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 8.43                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 10.65                  |                      |
|       |            |     | For Single Slope Frame Roof, Add   | 2.54                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 1.28                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 1.61                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97                  |                      |
| 13 34 | 19 00-0010 | GSF | 24' Eave Height, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....       | 49.76                  | 13.94                |
|       |            |     | For 20' To 29' In Length Only, Add   | 5.24                   |                      |
|       |            |     | For 30' To 49' In Length Only, Add   | 4.11                   |                      |
|       |            |     | For 50' To 69' In Length Only, Add   | 2.41                   |                      |
|       |            |     | For 70' To 99' In Length Only, Add   | 0.99                   |                      |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.49                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 2.49                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 3.73                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 4.85                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 5.97                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 9.45                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 11.94                  |                      |
|       |            |     | For Single Slope Frame Roof, Add   | 2.76                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 1.43                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 1.83                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97                  |                      |
| 13 34 | 19 00-0011 |     | <b>&gt;30' To 50' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings</b>                             |                        |                      |
|       |            |     | (13 34 19 00-0002)   |                        |                      |
| 13 34 | 19 00-0012 | GSF | 10' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....     | 25.87                  | 6.25                 |
|       |            |     | For 30' To 49' In Length Only, Add   | 2.63                   |                      |
|       |            |     | For 50' To 69' In Length Only, Add   | 1.54                   |                      |
|       |            |     | For 70' To 99' In Length Only, Add   | 0.63                   |                      |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.78                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.29                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.94                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 2.52                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.10                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.92                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 6.21                   |                      |
|       |            |     | For Single Slope Frame Roof, Add   | 1.76                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.76                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.88                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired) | -1.97                  |                      |



|   |              |
|---|--------------|
| <b>Special Construction</b>             | <b>13</b>    |
| <b>Special Structures</b>               | <b>13 30</b> |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0013 GSF 12' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 27.58                     | 6.83                    |
| For 30' To 49' In Length Only, Add  | 2.71                      |                         |
| For 50' To 69' In Length Only, Add  | 1.58                      |                         |
| For 70' To 99' In Length Only, Add  | 0.65                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.83                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.38                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.07                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.69                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.31                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.24                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.62                      |                         |
| For Single Slope Frame Roof, Add  | 1.81                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.81                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.95                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                  | -1.97                     |                         |
| 13 34 19 00-0014 GSF 14' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 29.04                     | 7.39                    |
| For 30' To 49' In Length Only, Add  | 2.76                      |                         |
| For 50' To 69' In Length Only, Add  | 1.62                      |                         |
| For 70' To 99' In Length Only, Add  | 0.67                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.87                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.45                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.18                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.83                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.48                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.52                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.97                      |                         |
| For Single Slope Frame Roof, Add  | 1.85                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.85                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 1.02                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                  | -1.97                     |                         |
| 13 34 19 00-0015 GSF 16' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 31.17                     | 8.05                    |
| For 30' To 49' In Length Only, Add  | 2.91                      |                         |
| For 50' To 69' In Length Only, Add  | 1.70                      |                         |
| For 70' To 99' In Length Only, Add  | 0.70                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.94                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.56                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.34                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.04                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.74                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.92                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 7.48                      |                         |
| For Single Slope Frame Roof, Add  | 1.95                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.91                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 1.10                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                  | -1.97                     |                         |
| 13 34 19 00-0016 GSF 18' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 33.78                     | 8.65                    |
| For 30' To 49' In Length Only, Add  | 3.19                      |                         |
| For 50' To 69' In Length Only, Add  | 1.87                      |                         |
| For 70' To 99' In Length Only, Add  | 0.77                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 1.01                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.69                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.53                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.29                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.05                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 6.42                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 8.11                      |                         |
| For Single Slope Frame Roof, Add  | 2.14                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.99                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 1.17                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                  | -1.97                     |                         |
| 13 34 19 00-0017 GSF 20' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 36.16                     | 9.23                    |
| For 30' To 49' In Length Only, Add  | 3.39                      |                         |
| For 50' To 69' In Length Only, Add  | 1.98                      |                         |
| For 70' To 99' In Length Only, Add  | 0.82                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 1.08                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.81                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.71                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.53                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.34                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 6.87                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 8.68                      |                         |
| For Single Slope Frame Roof, Add  | 2.27                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 1.06                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 1.26                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                  | -1.97                     |                         |

**13 Special Construction**

**13 30 Special Structures**

**13 34 Fabricated Engineered Structures**



| MINOR            |   | TOTAL DIRECT | DEMOLITION |
|------------------|---|--------------|------------|
| CSI              | UOM DESCRIPTION   | UNIT COST    | UNIT COST  |
| 13 34 19 00-0018 | GSF 24' Eave Height, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....  | 39.57        | 10.43      |
|                  | For 30' To 49' In Length Only, Add  | 3.58         |            |
|                  | For 50' To 69' In Length Only, Add  | 2.10         |            |
|                  | For 70' To 99' In Length Only, Add  | 0.86         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 1.19         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.98         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.97         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.86         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.75         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 7.52         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 9.50         |            |
|                  | For Single Slope Frame Roof, Add  | 2.40         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 1.15         |            |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add  | 1.40         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)  | -1.97        |            |
| 13 34 19 00-0019 | >50' To 100' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings                                       |              |            |
|                  | (13 34 19 00-0020)  |              |            |
| 13 34 19 00-0020 | GSF 10' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 20.10        | 4.35       |
|                  | For 30' To 49' In Length Only, Add  | 2.30         |            |
|                  | For 50' To 69' In Length Only, Add  | 1.35         |            |
|                  | For 70' To 99' In Length Only, Add  | 0.55         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.60         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.01         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.51         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.96         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.41         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.82         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.82         |            |
|                  | For Single Slope Frame Roof, Add  | 1.54         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.61         |            |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add  | 0.64         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)  | -1.97        |            |
| 13 34 19 00-0021 | GSF 12' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 20.92        | 4.57       |
|                  | For 30' To 49' In Length Only, Add  | 2.37         |            |
|                  | For 50' To 69' In Length Only, Add  | 1.39         |            |
|                  | For 70' To 99' In Length Only, Add  | 0.57         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.63         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.05         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.57         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.04         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.51         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.97         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.02         |            |
|                  | For Single Slope Frame Roof, Add  | 1.59         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.63         |            |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add  | 0.67         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)  | -1.97        |            |
| 13 34 19 00-0022 | GSF 14' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 21.73        | 4.79       |
|                  | For 30' To 49' In Length Only, Add  | 2.44         |            |
|                  | For 50' To 69' In Length Only, Add  | 1.43         |            |
|                  | For 70' To 99' In Length Only, Add  | 0.59         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.65         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.09         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.63         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.12         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.61         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.13         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.22         |            |
|                  | For Single Slope Frame Roof, Add  | 1.64         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.65         |            |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add  | 0.70         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)  | -1.97        |            |
| 13 34 19 00-0023 | GSF 16' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding ..... | 24.05        | 5.54       |
|                  | For 30' To 49' In Length Only, Add  | 2.58         |            |
|                  | For 50' To 69' In Length Only, Add  | 1.51         |            |
|                  | For 70' To 99' In Length Only, Add  | 0.62         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.72         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.20         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.80         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.34         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.89         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.57         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.77         |            |
|                  | For Single Slope Frame Roof, Add  | 1.73         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.72         |            |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add  | 0.79         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)  | -1.97        |            |



|   |              |           |
|---|--------------|-----------|
| <b>Special Construction</b>             | <b>13</b>    | <b>13</b> |
| <b>Special Structures</b>               | <b>13 30</b> |           |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0024 GSF 18' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....      | 25.87                     | 6.16                    |
| For 30' To 49' In Length Only, Add  | 2.67                      |                         |
| For 50' To 69' In Length Only, Add  | 1.56                      |                         |
| For 70' To 99' In Length Only, Add  | 0.64                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.78                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.29                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.94                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.52                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.10                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.92                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.21                      |                         |
| For Single Slope Frame Roof, Add  | 1.79                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.77                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.87                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0025 GSF 20' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....      | 27.60                     | 6.80                    |
| For 30' To 49' In Length Only, Add  | 2.74                      |                         |
| For 50' To 69' In Length Only, Add  | 1.60                      |                         |
| For 70' To 99' In Length Only, Add  | 0.66                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.83                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.38                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.07                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.69                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.31                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.24                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.62                      |                         |
| For Single Slope Frame Roof, Add  | 1.84                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.81                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.94                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0026 GSF 24' Eave Height, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding .....      | 30.78                     | 7.69                    |
| For 30' To 49' In Length Only, Add  | 3.00                      |                         |
| For 50' To 69' In Length Only, Add  | 1.76                      |                         |
| For 70' To 99' In Length Only, Add  | 0.72                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.92                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.54                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.31                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.00                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.69                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.85                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 7.39                      |                         |
| For Single Slope Frame Roof, Add  | 2.01                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.90                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 1.06                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| <b>13 34 19 00-0027 Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)</b>                             |                           |                         |
| Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.   |                           |                         |
| <b>13 34 19 00-0028 20' To 30' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)</b>             |                           |                         |
| 13 34 19 00-0029 GSF 10' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 26.25                     | 6.25                    |
| For 20' To 29' In Length Only, Add  | 3.45                      |                         |
| For 30' To 49' In Length Only, Add  | 2.71                      |                         |
| For 50' To 69' In Length Only, Add  | 1.59                      |                         |
| For 70' To 99' In Length Only, Add  | 0.65                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.79                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.31                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.97                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.56                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.15                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.99                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.30                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.78                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.88                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0030 GSF 12' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 28.22                     | 6.83                    |
| For 20' To 29' In Length Only, Add  | 3.65                      |                         |
| For 30' To 49' In Length Only, Add  | 2.86                      |                         |
| For 50' To 69' In Length Only, Add  | 1.68                      |                         |
| For 70' To 99' In Length Only, Add  | 0.69                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.85                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.41                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.12                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.75                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.39                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.36                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.77                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.83                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.95                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |



**13 Special Construction**

**13 30 Special Structures**

**13 34 Fabricated Engineered Structures**



| MINOR            |  | TOTAL DIRECT | DEMOLITION |
|------------------|--|--------------|------------|
| CSI              | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 13 34 19 00-0031 | GSF 14' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 30.13        | 7.39       |
|                  | For 20' To 29' In Length Only, Add   | 3.83         |            |
|                  | For 30' To 49' In Length Only, Add   | 3.01         |            |
|                  | For 50' To 69' In Length Only, Add   | 1.76         |            |
|                  | For 70' To 99' In Length Only, Add   | 0.73         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.90         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.51         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.26         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 2.94         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.62         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 5.72         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 7.23         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 0.89         |            |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add   | 1.02         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)       | -1.97        |            |
| 13 34 19 00-0032 | GSF 16' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 32.62        | 8.05       |
|                  | For 20' To 29' In Length Only, Add   | 4.11         |            |
|                  | For 30' To 49' In Length Only, Add   | 3.23         |            |
|                  | For 50' To 69' In Length Only, Add   | 1.89         |            |
|                  | For 70' To 99' In Length Only, Add   | 0.78         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.98         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.63         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.45         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.18         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.91         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 6.20         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 7.83         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 0.96         |            |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add   | 1.17         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)       | -1.97        |            |
| 13 34 19 00-0033 | GSF 18' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 34.80        | 8.67       |
|                  | For 20' To 29' In Length Only, Add   | 4.33         |            |
|                  | For 30' To 49' In Length Only, Add   | 3.40         |            |
|                  | For 50' To 69' In Length Only, Add   | 1.99         |            |
|                  | For 70' To 99' In Length Only, Add   | 0.82         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.04         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.74         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.61         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.39         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.18         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 6.61         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 8.35         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 1.02         |            |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add   | 1.18         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)       | -1.97        |            |
| 13 34 19 00-0034 | GSF 20' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 36.96        | 9.30       |
|                  | For 20' To 29' In Length Only, Add   | 4.55         |            |
|                  | For 30' To 49' In Length Only, Add   | 3.57         |            |
|                  | For 50' To 69' In Length Only, Add   | 2.09         |            |
|                  | For 70' To 99' In Length Only, Add   | 0.86         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.11         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.85         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 2.77         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 3.60         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.44         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 7.02         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 8.87         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 1.08         |            |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add   | 1.26         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)       | -1.97        |            |
| 13 34 19 00-0035 | GSF 24' Eave Height, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 41.44        | 10.61      |
|                  | For 20' To 29' In Length Only, Add   | 4.98         |            |
|                  | For 30' To 49' In Length Only, Add   | 3.91         |            |
|                  | For 50' To 69' In Length Only, Add   | 2.29         |            |
|                  | For 70' To 99' In Length Only, Add   | 0.94         |            |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add   | 1.24         |            |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add   | 2.07         |            |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 3.11         |            |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 4.04         |            |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.97         |            |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 7.87         |            |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 9.95         |            |
|                  | For Each SF Of 24 Gauge Wall Panel, Add  | 1.21         |            |
|                  | For Each SF Of Lap Roof, Deduct  | -0.76        |            |
|                  | For Each SF Of Hip Roof, Add   | 1.42         |            |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)       | -1.97        |            |
| 13 34 19 00-0036 | >30' To 50' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)                   |              |            |



|   |              |
|---|--------------|
| <b>Special Construction</b>             | <b>13</b>    |
| <b>Special Structures</b>               | <b>13 30</b> |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0037 GSF 10' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 23.66                     | 5.54                    |
| For 30' To 49' In Length Only, Add  | 2.49                      |                         |
| For 50' To 69' In Length Only, Add  | 1.46                      |                         |
| For 70' To 99' In Length Only, Add  | 0.60                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.71                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.18                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.77                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.31                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.84                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.50                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.68                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.70                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.79                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0038 GSF 12' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 25.26                     | 6.05                    |
| For 30' To 49' In Length Only, Add  | 2.60                      |                         |
| For 50' To 69' In Length Only, Add  | 1.52                      |                         |
| For 70' To 99' In Length Only, Add  | 0.63                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.76                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.26                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.89                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.46                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.03                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.80                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.06                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.75                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.85                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0039 GSF 14' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 26.86                     | 6.56                    |
| For 30' To 49' In Length Only, Add  | 2.70                      |                         |
| For 50' To 69' In Length Only, Add  | 1.58                      |                         |
| For 70' To 99' In Length Only, Add  | 0.65                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.81                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.34                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.01                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.62                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.22                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.10                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.45                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.79                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.92                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0040 GSF 16' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 28.58                     | 7.03                    |
| For 30' To 49' In Length Only, Add  | 2.84                      |                         |
| For 50' To 69' In Length Only, Add  | 1.66                      |                         |
| For 70' To 99' In Length Only, Add  | 0.68                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.86                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.43                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.14                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.79                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.43                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.43                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.86                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.84                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.97                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0041 GSF 18' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 30.31                     | 7.54                    |
| For 30' To 49' In Length Only, Add  | 2.97                      |                         |
| For 50' To 69' In Length Only, Add  | 1.74                      |                         |
| For 70' To 99' In Length Only, Add  | 0.72                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.91                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.52                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.27                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.96                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.64                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.76                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 7.27                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.89                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 1.04                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |

**13 Special Construction****13 30 Special Structures****13 34 Fabricated Engineered Structures**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |       |      |
|------------------|---|-------|------|
| 13 34 19 00-0042 | GSF 20' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 32.03 | 8.05 |
|                  | For 30' To 49' In Length Only, Add  | 3.10  |      |
|                  | For 50' To 69' In Length Only, Add  | 1.81  |      |
|                  | For 70' To 99' In Length Only, Add  | 0.75  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.96  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.60  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.40  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.12  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.84  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 6.09  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 7.69  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.94  |      |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add  | 1.10  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)        | -1.97 |      |
| 13 34 19 00-0043 | GSF 24' Eave Height, >30' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 35.89 | 9.18 |
|                  | For 30' To 49' In Length Only, Add  | 3.39  |      |
|                  | For 50' To 69' In Length Only, Add  | 1.98  |      |
|                  | For 70' To 99' In Length Only, Add  | 0.82  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 1.08  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.79  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.69  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 3.50  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.31  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 6.82  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 8.61  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 1.05  |      |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add  | 1.24  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)        | -1.97 |      |

**13 34 19 00-0044 >50' To 80' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings** (13 34 19 00-0027)

|                  |   |       |      |
|------------------|---|-------|------|
| 13 34 19 00-0045 | GSF 10' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 20.46 | 4.35 |
|                  | For 30' To 49' In Length Only, Add  | 2.38  |      |
|                  | For 50' To 69' In Length Only, Add  | 1.39  |      |
|                  | For 70' To 99' In Length Only, Add  | 0.57  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.61  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.02  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.53  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.99  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.46  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.89  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.91  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.62  |      |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add  | 0.64  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)        | -1.97 |      |
| 13 34 19 00-0046 | GSF 12' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 21.57 | 4.65 |
|                  | For 30' To 49' In Length Only, Add  | 2.48  |      |
|                  | For 50' To 69' In Length Only, Add  | 1.45  |      |
|                  | For 70' To 99' In Length Only, Add  | 0.60  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.65  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.08  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.62  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.10  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.59  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.10  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.18  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.65  |      |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add  | 0.68  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)        | -1.97 |      |
| 13 34 19 00-0047 | GSF 14' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding ..... | 22.66 | 4.94 |
|                  | For 30' To 49' In Length Only, Add  | 2.57  |      |
|                  | For 50' To 69' In Length Only, Add  | 1.50  |      |
|                  | For 70' To 99' In Length Only, Add  | 0.62  |      |
|                  | For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.68  |      |
|                  | For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.13  |      |
|                  | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.70  |      |
|                  | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.21  |      |
|                  | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.72  |      |
|                  | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.31  |      |
|                  | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.44  |      |
|                  | For Each SF Of 24 Gauge Wall Panel, Add   | 0.68  |      |
|                  | For Each SF Of Lap Roof, Deduct   | -0.76 |      |
|                  | For Each SF Of Hip Roof, Add  | 0.71  |      |
|                  | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)        | -1.97 |      |



|   |              |
|---|--------------|
| <b>Special Construction</b>             | <b>13</b>    |
| <b>Special Structures</b>               | <b>13 30</b> |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0048 GSF 16' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 23.83                     | 5.25                    |
| For 30' To 49' In Length Only, Add  | 2.68                      |                         |
| For 50' To 69' In Length Only, Add  | 1.57                      |                         |
| For 70' To 99' In Length Only, Add  | 0.65                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.71                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.19                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.79                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.32                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.86                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.53                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.72                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.72                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.75                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0049 GSF 18' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 25.32                     | 5.60                    |
| For 30' To 49' In Length Only, Add  | 2.83                      |                         |
| For 50' To 69' In Length Only, Add  | 1.66                      |                         |
| For 70' To 99' In Length Only, Add  | 0.68                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.76                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.27                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.90                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.47                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.04                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.81                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.08                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.76                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.80                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0050 GSF 20' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 26.64                     | 5.90                    |
| For 30' To 49' In Length Only, Add  | 2.98                      |                         |
| For 50' To 69' In Length Only, Add  | 1.74                      |                         |
| For 70' To 99' In Length Only, Add  | 0.72                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.80                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.33                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.00                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.60                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.20                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.06                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 6.39                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.80                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.83                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| 13 34 19 00-0051 GSF 24' Eave Height, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding..... | 29.74                     | 6.71                    |
| For 30' To 49' In Length Only, Add  | 3.27                      |                         |
| For 50' To 69' In Length Only, Add  | 1.91                      |                         |
| For 70' To 99' In Length Only, Add  | 0.79                      |                         |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.89                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.49                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 2.23                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.90                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.57                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 5.65                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 7.14                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.89                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.93                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |
| <b>13 34 19 00-0052 Single Post 2-Span Frame Pre-Engineered Metal Buildings</b> <small>(13 34 19 00-0001)</small>                   |                           |                         |
| <i>Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.</i>                                  |                           |                         |
| <b>13 34 19 00-0053 Up To 60' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings</b>                                      |                           |                         |
| <small>(13 34 19 00-0052)</small>   |                           |                         |
| 13 34 19 00-0054 GSF 14' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....       | 21.54                     | 5.13                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.65                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.08                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.62                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.10                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.58                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.09                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.17                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.64                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.74                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                        | -1.97                     |                         |

**13 Special Construction**

**13 30 Special Structures**

**13 34 Fabricated Engineered Structures**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 13 34 | 19 00-0055 | GSF | 16' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding .....            | 22.98                  | 5.49                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.69                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.15                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.72                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.24                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.76                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 4.37                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 5.52                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.68                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.78                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>  | -1.97                  |                      |
| 13 34 | 19 00-0056 | GSF | 18' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding .....            | 24.13                  | 5.78                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.72                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.21                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.81                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.35                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.90                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 4.58                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 5.79                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.71                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.82                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>  | -1.97                  |                      |
| 13 34 | 19 00-0057 | GSF | 20' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding .....            | 25.28                  | 6.08                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.76                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.26                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.90                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.46                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.03                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 4.80                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 6.07                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.75                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.85                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>  | -1.97                  |                      |
| 13 34 | 19 00-0058 | GSF | 24' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding .....            | 27.38                  | 6.60                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.82                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.37                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 2.05                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.67                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.29                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 5.20                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 6.57                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.81                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.92                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>  | -1.97                  |                      |
| 13 34 | 19 00-0059 |     | <b>&gt;60' To 80' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings</b> <small>(13 34 19 00-0052)</small> |                        |                      |
| 13 34 | 19 00-0060 | GSF | 14' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding .....          | 19.92                  | 4.53                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.60                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.00                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.49                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 1.94                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.39                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.78                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 4.78                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.59                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.66                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>  | -1.97                  |                      |
| 13 34 | 19 00-0061 | GSF | 16' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding .....          | 21.20                  | 4.83                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.64                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.06                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.59                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.07                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.54                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 4.03                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 5.09                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.63                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.70                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>  | -1.97                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 13 34 19 00-0062 GSF 18' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....  | 22.36                     | 5.13                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.67                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.12                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.68                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 2.18                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.68                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.25                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 5.37                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add  | 0.67                      |                         |
| For Each SF Of Lap Roof, Deduct  | -0.76                     |                         |
| For Each SF Of Hip Roof, Add   | 0.74                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                     | -1.97                     |                         |
| 13 34 19 00-0063 GSF 20' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....  | 23.35                     | 5.36                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.70                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.17                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.75                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 2.28                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.80                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.44                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 5.60                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add  | 0.70                      |                         |
| For Each SF Of Lap Roof, Deduct  | -0.76                     |                         |
| For Each SF Of Hip Roof, Add   | 0.77                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                     | -1.97                     |                         |
| 13 34 19 00-0064 GSF 24' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....  | 25.29                     | 5.84                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.76                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.26                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.90                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 2.47                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.03                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 4.81                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 6.07                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add  | 0.75                      |                         |
| For Each SF Of Lap Roof, Deduct  | -0.76                     |                         |
| For Each SF Of Hip Roof, Add   | 0.83                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                     | -1.97                     |                         |
| <b>13 34 19 00-0065 &gt;80' To 100' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings</b>                             |                           |                         |
| (13 34 19 00-0062)   |                           |                         |
| 13 34 19 00-0066 GSF 14' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding..... | 18.42                     | 4.00                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.55                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.92                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.38                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.80                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.21                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.50                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.42                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add  | 0.55                      |                         |
| For Each SF Of Lap Roof, Deduct  | -0.76                     |                         |
| For Each SF Of Hip Roof, Add   | 0.60                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                     | -1.97                     |                         |
| 13 34 19 00-0067 GSF 16' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding..... | 19.30                     | 4.18                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.58                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.97                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.45                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.88                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.32                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.67                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.63                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add  | 0.58                      |                         |
| For Each SF Of Lap Roof, Deduct  | -0.76                     |                         |
| For Each SF Of Hip Roof, Add   | 0.62                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                     | -1.97                     |                         |
| 13 34 19 00-0068 GSF 18' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding..... | 20.33                     | 4.41                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.61                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add   | 1.02                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.52                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.98                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.44                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.86                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.88                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add  | 0.61                      |                         |
| For Each SF Of Lap Roof, Deduct  | -0.76                     |                         |
| For Each SF Of Hip Roof, Add   | 0.65                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                     | -1.97                     |                         |

**13 Special Construction**

**13 30 Special Structures**

**13 34 Fabricated Engineered Structures**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 13 34 | 19 00-0069 | GSF | 20' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....            | 21.19                  | 4.59                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.64                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.06                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.59                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.07                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.54                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 4.03                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 5.09                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.64                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.67                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>    | -1.97                  |                      |
| 13 34 | 19 00-0070 | GSF | 24' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....            | 22.97                  | 5.00                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.69                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.15                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.72                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 2.24                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.76                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 4.36                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 5.51                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.69                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.72                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>    | -1.97                  |                      |
| 13 34 | 19 00-0071 |     | <b>&gt;100' To 120' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings</b> <small>(13 34 19 00-0052)</small> |                        |                      |
| 13 34 | 19 00-0072 | GSF | 14' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....           | 17.93                  | 3.82                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.54                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 0.90                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.34                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 1.75                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.15                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.41                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 4.30                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.54                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.57                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>    | -1.97                  |                      |
| 13 34 | 19 00-0073 | GSF | 16' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....           | 18.66                  | 4.00                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.56                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 0.93                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.40                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 1.82                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.24                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.55                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 4.48                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.56                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.60                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>    | -1.97                  |                      |
| 13 34 | 19 00-0074 | GSF | 18' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....           | 19.51                  | 4.18                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.59                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 0.98                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.46                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 1.90                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.34                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.71                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 4.68                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.59                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.62                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>    | -1.97                  |                      |
| 13 34 | 19 00-0075 | GSF | 20' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....           | 20.33                  | 4.35                 |
|       |            |     | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>   | 0.61                   |                      |
|       |            |     | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>   | 1.02                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>   | 1.52                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>  | 1.98                   |                      |
|       |            |     | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 2.44                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>  | 3.86                   |                      |
|       |            |     | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>  | 4.88                   |                      |
|       |            |     | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>   | 0.61                   |                      |
|       |            |     | <i>For Each SF Of Lap Roof, Deduct</i>   | -0.76                  |                      |
|       |            |     | <i>For Each SF Of Hip Roof, Add</i>  | 0.64                   |                      |
|       |            |     | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>    | -1.97                  |                      |



|   |              |           |
|---|--------------|-----------|
| <b>Special Construction</b>             | <b>13</b>    | <b>13</b> |
| <b>Special Structures</b>               | <b>13 30</b> |           |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0076 GSF 24' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding..... | 22.05                     | 4.71                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.66                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.10                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.65                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.15                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.65                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.19                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.29                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.67                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.69                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| <b>13 34 19 00-0077 Double Post 3-Span Frame Pre-Engineered Metal Buildings</b> (13 34 19 00-0001)                                |                           |                         |
| Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.                                       |                           |                         |
| <b>13 34 19 00-0078 Up To 120' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings</b> (13 34 19 00-0077)                |                           |                         |
| 13 34 19 00-0079 GSF 14' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....    | 17.84                     | 4.00                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.54                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.89                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.34                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.74                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.14                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.39                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.28                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.53                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.60                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0080 GSF 16' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....    | 18.53                     | 4.18                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.56                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.93                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.39                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.81                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.22                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.52                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.45                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.55                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.62                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0081 GSF 18' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....    | 18.59                     | 4.05                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.56                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.93                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.39                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.81                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.23                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.53                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.46                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.56                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.60                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0082 GSF 20' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....    | 19.33                     | 4.23                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.58                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.97                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.45                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.88                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.32                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.67                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.64                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.58                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.63                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0083 GSF 24' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....    | 21.67                     | 4.53                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.65                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.08                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.63                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 2.11                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.60                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 4.12                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 5.20                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.66                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.66                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| <b>13 34 19 00-0084 &gt;120' To 150' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings</b> (13 34 19 00-0077)          |                           |                         |



**13 Special Construction****13 30 Special Structures****13 34 Fabricated Engineered Structures**

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |     |  |   |       |      |
|------------------|-----|--|---|-------|------|
| 13 34 19 00-0085 | GSF |  | 14' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....        | 16.81 | 3.64 |
|                  |     |  | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.50  |      |
|                  |     |  | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.84  |      |
|                  |     |  | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.26  |      |
|                  |     |  | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.64  |      |
|                  |     |  | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.02  |      |
|                  |     |  | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.19  |      |
|                  |     |  | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 4.03  |      |
|                  |     |  | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.51  |      |
|                  |     |  | <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76 |      |
|                  |     |  | <i>For Each SF Of Hip Roof, Add</i>   | 0.55  |      |
|                  |     |  | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i> | -1.97 |      |
| 13 34 19 00-0086 | GSF |  | 16' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....        | 17.37 | 3.76 |
|                  |     |  | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.52  |      |
|                  |     |  | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.87  |      |
|                  |     |  | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.30  |      |
|                  |     |  | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.69  |      |
|                  |     |  | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.08  |      |
|                  |     |  | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.30  |      |
|                  |     |  | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 4.17  |      |
|                  |     |  | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.52  |      |
|                  |     |  | <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76 |      |
|                  |     |  | <i>For Each SF Of Hip Roof, Add</i>   | 0.57  |      |
|                  |     |  | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i> | -1.97 |      |
| 13 34 19 00-0087 | GSF |  | 18' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....        | 18.05 | 3.91 |
|                  |     |  | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.54  |      |
|                  |     |  | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.90  |      |
|                  |     |  | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.35  |      |
|                  |     |  | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.76  |      |
|                  |     |  | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.17  |      |
|                  |     |  | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.43  |      |
|                  |     |  | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 4.33  |      |
|                  |     |  | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.54  |      |
|                  |     |  | <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76 |      |
|                  |     |  | <i>For Each SF Of Hip Roof, Add</i>   | 0.59  |      |
|                  |     |  | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i> | -1.97 |      |
| 13 34 19 00-0088 | GSF |  | 20' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....        | 18.68 | 4.05 |
|                  |     |  | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.56  |      |
|                  |     |  | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.93  |      |
|                  |     |  | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.40  |      |
|                  |     |  | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.82  |      |
|                  |     |  | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.24  |      |
|                  |     |  | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.55  |      |
|                  |     |  | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 4.48  |      |
|                  |     |  | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.56  |      |
|                  |     |  | <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76 |      |
|                  |     |  | <i>For Each SF Of Hip Roof, Add</i>   | 0.60  |      |
|                  |     |  | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i> | -1.97 |      |
| 13 34 19 00-0089 | GSF |  | 24' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....        | 20.99 | 4.35 |
|                  |     |  | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.63  |      |
|                  |     |  | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 1.05  |      |
|                  |     |  | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.57  |      |
|                  |     |  | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 2.05  |      |
|                  |     |  | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.52  |      |
|                  |     |  | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.99  |      |
|                  |     |  | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 5.04  |      |
|                  |     |  | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.64  |      |
|                  |     |  | <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76 |      |
|                  |     |  | <i>For Each SF Of Hip Roof, Add</i>   | 0.64  |      |
|                  |     |  | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i> | -1.97 |      |

**13 34 19 00-0090 Triple Post 4-Span Frame Pre-Engineered Metal Buildings** (13 34 19 00-0001)

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

**13 34 19 00-0091 Up To 160' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building**(13 34 19 00-0090)

|                  |     |  |   |       |      |
|------------------|-----|--|---|-------|------|
| 13 34 19 00-0092 | GSF |  | 14' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....          | 16.13 | 3.45 |
|                  |     |  | <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.48  |      |
|                  |     |  | <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.81  |      |
|                  |     |  | <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.21  |      |
|                  |     |  | <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.57  |      |
|                  |     |  | <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 1.94  |      |
|                  |     |  | <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.06  |      |
|                  |     |  | <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 3.87  |      |
|                  |     |  | <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.49  |      |
|                  |     |  | <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76 |      |
|                  |     |  | <i>For Each SF Of Hip Roof, Add</i>   | 0.53  |      |
|                  |     |  | <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i> | -1.97 |      |



|   |              |
|---|--------------|
| <b>Special Construction</b>             | <b>13</b>    |
| <b>Special Structures</b>               | <b>13 30</b> |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0093 GSF 16' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....   | 16.80                     | 3.58                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.50                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.84                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.26                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.64                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.02                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.19                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.03                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.51                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.54                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0094 GSF 18' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....   | 17.37                     | 3.69                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.52                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.87                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.30                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.69                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.08                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.30                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.17                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.52                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.56                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0095 GSF 20' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....   | 17.91                     | 3.82                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.54                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.90                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.34                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.75                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.15                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.40                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.30                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.54                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.57                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0096 GSF 24' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....   | 20.24                     | 4.18                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.61                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 1.01                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.52                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.97                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 2.43                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.85                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 4.86                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.61                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.62                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| <b>13 34 19 00-0097 &gt;160' To 180' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building (13 34 19 00-0090)</b>           |                           |                         |
| 13 34 19 00-0098 GSF 14' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding ..... | 15.88                     | 3.34                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.48                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.79                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.19                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.55                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 1.91                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.02                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 3.81                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.48                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.51                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |
| 13 34 19 00-0099 GSF 16' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding ..... | 16.45                     | 3.45                    |
| For >1 In 12 Slope To 3 In 12 Slope, Add  | 0.49                      |                         |
| For >3 In 12 Slope To 5 In 12 Slope, Add  | 0.82                      |                         |
| For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add   | 1.23                      |                         |
| For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add  | 1.60                      |                         |
| For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 1.97                      |                         |
| For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add  | 3.13                      |                         |
| For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add  | 3.95                      |                         |
| For Each SF Of 24 Gauge Wall Panel, Add   | 0.50                      |                         |
| For Each SF Of Lap Roof, Deduct   | -0.76                     |                         |
| For Each SF Of Hip Roof, Add  | 0.53                      |                         |
| For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)                      | -1.97                     |                         |

**13 Special Construction**

**13 30 Special Structures**

**13 34 Fabricated Engineered Structures**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 13 34 | 19 00-0100 | GSF | 18' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....           | 17.06                  | 3.58                 |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.51                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.85                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.28                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.66                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.05                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.24                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.09                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.52                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.54                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)           | -1.97                  |                      |
| 13 34 | 19 00-0101 | GSF | 20' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....           | 17.64                  | 3.69                 |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.53                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.88                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.32                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.72                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.12                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.35                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.23                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.53                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.56                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)           | -1.97                  |                      |
| 13 34 | 19 00-0102 | GSF | 24' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....           | 19.85                  | 4.00                 |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.60                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.99                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.49                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.94                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.38                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.77                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.76                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.60                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.60                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)           | -1.97                  |                      |
| 13 34 | 19 00-0103 |     | <b>&gt;180' To 200' Wide Triple Post 4-Span Frame Pre-Engineered Metal Buildings</b> <small>(13 34 19 00-0090)</small> |                        |                      |
| 13 34 | 19 00-0104 | GSF | 14' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....           | 15.66                  | 3.22                 |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.47                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.78                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.17                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.53                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 1.88                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.98                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 3.76                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.48                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.50                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)           | -1.97                  |                      |
| 13 34 | 19 00-0105 | GSF | 16' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....           | 16.13                  | 3.34                 |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.48                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.81                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.21                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.57                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 1.94                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.06                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 3.87                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.49                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.51                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)           | -1.97                  |                      |
| 13 34 | 19 00-0106 | GSF | 18' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding .....           | 16.76                  | 3.45                 |
|       |            |     | For >1 In 12 Slope To 3 In 12 Slope, Add   | 0.50                   |                      |
|       |            |     | For >3 In 12 Slope To 5 In 12 Slope, Add   | 0.84                   |                      |
|       |            |     | For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add  | 1.26                   |                      |
|       |            |     | For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add   | 1.63                   |                      |
|       |            |     | For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 2.01                   |                      |
|       |            |     | For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add   | 3.18                   |                      |
|       |            |     | For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add   | 4.02                   |                      |
|       |            |     | For Each SF Of 24 Gauge Wall Panel, Add  | 0.51                   |                      |
|       |            |     | For Each SF Of Lap Roof, Deduct  | -0.76                  |                      |
|       |            |     | For Each SF Of Hip Roof, Add   | 0.53                   |                      |
|       |            |     | For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)           | -1.97                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 34 19 00-0107 GSF 20' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding.....  | 17.37                     | 3.58                    |
| <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.52                      |                         |
| <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.87                      |                         |
| <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.30                      |                         |
| <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.69                      |                         |
| <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.08                      |                         |
| <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.30                      |                         |
| <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 4.17                      |                         |
| <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.53                      |                         |
| <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76                     |                         |
| <i>For Each SF Of Hip Roof, Add</i>   | 0.54                      |                         |
| <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>   | -1.97                     |                         |
| 13 34 19 00-0108 GSF 24' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding.....  | 19.59                     | 3.87                    |
| <i>For &gt;1 In 12 Slope To 3 In 12 Slope, Add</i>  | 0.59                      |                         |
| <i>For &gt;3 In 12 Slope To 5 In 12 Slope, Add</i>  | 0.98                      |                         |
| <i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>  | 1.47                      |                         |
| <i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>   | 1.91                      |                         |
| <i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 2.35                      |                         |
| <i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>   | 3.72                      |                         |
| <i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>   | 4.70                      |                         |
| <i>For Each SF Of 24 Gauge Wall Panel, Add</i>  | 0.60                      |                         |
| <i>For Each SF Of Lap Roof, Deduct</i>  | -0.76                     |                         |
| <i>For Each SF Of Hip Roof, Add</i>   | 0.58                      |                         |
| <i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>   | -1.97                     |                         |
| <b>13 34 19 00-0109 Metal Building Options</b> <small>(13 34 19 00-0001)</small>  |                           |                         |
| <small>Note: For use with metal buildings only. See CSI section 08 12 13 13-0000 for metal door frames, 08 13 13 13-0000 for metal doors, 08 33 23 00-0000 for coiling roll-up doors.</small> |                           |                         |
| <b>13 34 19 00-0110 Metal Framing For Rough Openings</b> <small>(13 34 19 00-0109)</small>  |                           |                         |
| <small>Note: Excludes doors See CSI section 08 13 00 00-0000 for metal doors.</small>   |                           |                         |
| 13 34 19 00-0111 EA Single Door, Metal Frame Rough Opening.....   | 527.77                    | 133.50                  |
| 13 34 19 00-0112 EA Double Door, Metal Frame Rough Opening.....   | 802.85                    | 172.85                  |
| 13 34 19 00-0113 EA 10' x 10' Overhead Door, Metal Frame Rough Opening.....   | 949.59                    | 163.90                  |
| 13 34 19 00-0114 EA 12' x 12' Overhead Door, Metal Frame Rough Opening.....   | 1,025.40                  | 166.89                  |
| 13 34 19 00-0115 EA 14' x 14' Overhead Door, Metal Frame Rough Opening.....   | 1,088.79                  | 172.85                  |
| 13 34 19 00-0116 EA Up To 12 SF, Window Opening, Metal Frame Rough Opening.....   | 507.71                    | 133.50                  |
| 13 34 19 00-0117 EA >12 To 18 SF, Window Opening, Metal Frame Rough Opening.....  | 570.16                    | 151.75                  |
| 13 34 19 00-0118 LF Additional Girts.....   | 12.94                     |                         |
| <b>13 34 19 00-0119 Wall Panel Options For Metal Buildings</b> <small>(13 34 19 00-0109)</small>  |                           |                         |
| <small>Note: Upgrade from 26 gauge wall panels.</small>   |                           |                         |
| 13 34 19 00-0120 SF Upgrade To 2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....   | 14.86                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| 13 34 19 00-0121 SF Upgrade To 2-1/2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....   | 18.12                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| 13 34 19 00-0122 SF Upgrade To 3" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....   | 21.05                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| 13 34 19 00-0123 SF Upgrade To 4" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....   | 24.43                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| <b>13 34 19 00-0124 Roofing Options For Metal Buildings</b> <small>(13 34 19 00-0109)</small>   |                           |                         |
| <small>Note: Upgrade from 26 gauge standing seam roof panels.</small>   |                           |                         |
| 13 34 19 00-0125 SF Upgrade To 24 Gauge Galvanized Steel Standing Seam Roof.....  | 1.52                      |                         |
| 13 34 19 00-0126 SF Upgrade To 4" Thick Insulated Roof Panel, Metal-Span III, CFR-42.....   | 24.76                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| 13 34 19 00-0127 SF Upgrade To 5" Thick Insulated Roof Panel, Metal-Span III, CFR-42.....   | 26.34                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| 13 34 19 00-0128 SF Upgrade To 6" Thick Insulated Roof Panel, Metal-Span III, CFR-42.....   | 27.60                     |                         |
| <small>Note: 24 gauge exterior and 24 gauge interior panels.</small>  |                           |                         |
| <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>   | 0.24                      |                         |
| <i>For Premium Exterior Colors, Add</i>   | 0.12                      |                         |
| 13 34 19 00-0129 EA 3' x 10' Translucent Fiberglass Panels.....   | 190.27                    | 51.25                   |
| 13 34 19 00-0130 LF Vented Ridge Vent For Standing Seam Roof.....   | 25.38                     |                         |
| <b>13 34 19 00-0131 Insulation For Metal Buildings</b> <small>(13 34 19 00-0109)</small>  |                           |                         |
| 13 34 19 00-0132 SF 1-1/2" Thick, R-5.5, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....   | 1.46                      | 0.43                    |
| 13 34 19 00-0133 SF 2-1/2" Thick, R-8, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....   | 1.61                      | 0.43                    |
| 13 34 19 00-0134 SF 3-1/2" Thick, R-11, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....  | 1.80                      | 0.58                    |

**13 Special Construction****13 30 Special Structures****13 34 Fabricated Engineered Structures**

| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 13 34 19 00-0135   | SF  |     | 3-1/2" Thick, R-13, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....                                   | 2.07                   | 0.58                 |
| 13 34 19 00-0136   | SF  |     | 6" Thick, R-19, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....                                       | 2.54                   | 0.58                 |
| 13 34 19 00-0137   | SF  |     | 1-1/2" Thick, R-5.5, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....                             | 1.73                   | 0.43                 |
| 13 34 19 00-0138   | SF  |     | 2-1/2" Thick, R-8, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....                               | 1.88                   | 0.43                 |
| 13 34 19 00-0139   | SF  |     | 3-1/2" Thick, R-11, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....                              | 2.02                   | 0.58                 |
| 13 34 19 00-0140   | SF  |     | 3-1/2" Thick, R-13, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....                              | 2.23                   | 0.58                 |
| 13 34 19 00-0141   | SF  |     | 6" Thick, R-19, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....                                  | 2.63                   | 0.58                 |
| 13 34 19 00-0142   | SF  |     | 1-1/2" Thick, R-5.5, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....                                 | 1.65                   | 0.43                 |
| 13 34 19 00-0143   | SF  |     | 2-1/2" Thick, R-8, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....                                   | 1.82                   | 0.43                 |
| 13 34 19 00-0144   | SF  |     | 3-1/2" Thick, R-11, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....                                  | 2.13                   | 0.58                 |
| 13 34 19 00-0145   | SF  |     | 3-1/2" Thick, R-13, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....                                  | 2.34                   | 0.58                 |
| 13 34 19 00-0146   | SF  |     | 6" Thick, R-19, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....                                      | 2.71                   | 0.58                 |
| 13 34 19 00-0147   | SF  |     | 2" Thick, R-6.5, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation.....                                   | 1.55                   | 0.43                 |
| 13 34 19 00-0148   | SF  |     | 3" Thick, R-10, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation.....                                    | 1.64                   | 0.43                 |
| 13 34 19 00-0149   | SF  |     | 4" Thick, R-13, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation.....                                    | 1.83                   | 0.58                 |
| 13 34 19 00-0150   | SF  |     | 6" Thick, R-19, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation.....                                    | 2.25                   | 0.58                 |
| 13 34 19 00-0151   | SF  |     | 2" Thick, R-6.5, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....                     | 1.56                   | 0.43                 |
| 13 34 19 00-0152   | SF  |     | 3" Thick, R-10, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....                      | 1.66                   | 0.43                 |
| 13 34 19 00-0153   | SF  |     | 4" Thick, R-13, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....                      | 1.86                   | 0.58                 |
| 13 34 19 00-0154   | SF  |     | 6" Thick, R-19, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....                      | 2.30                   | 0.58                 |
| 13 34 19 00-0155   | SF  |     | 2" Thick, R-6.5, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation..... | 2.01                   | 0.43                 |
| 13 34 19 00-0156   | SF  |     | 3" Thick, R-10, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....  | 2.14                   | 0.43                 |
| 13 34 19 00-0157   | SF  |     | 4" Thick, R-13, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....  | 2.34                   | 0.58                 |
| 13 34 19 00-0158   | SF  |     | 6" Thick, R-19, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....  | 2.78                   | 0.58                 |
| <b>13 34 19 00-0159 Eave And Overhang Options For Metal Buildings (13 34 19 00-0109)</b> |     |     |  |                        |                      |
| 13 34 19 00-0160   | LF  |     | 2' End Wall Roof Overhang And 26 Gauge Soffit.....   | 45.28                  | 9.30                 |
| 13 34 19 00-0161   | LF  |     | 4' End Wall Roof Overhang And 26 Gauge Soffit.....   | 68.50                  | 6.67                 |
| 13 34 19 00-0162   | SF  |     | Up To 20 SF, Prefinished Aluminum, Wall Hung Canopy.....   | 92.58                  | 14.90                |
|  |     |     | Note: Up to 7' projection from wall. Includes finished underside and edges.  |                        |                      |
|  |     |     | <i>For End Braced (Up To 16' Wall Projection), Add</i>   | 21.66                  |                      |
|  |     |     | <i>For Overhead Braced (Up To 10' Wall Projection), Add</i>  | 12.40                  |                      |
| 13 34 19 00-0163   | SF  |     | >20 To 50 SF, Prefinished Aluminum, Wall Hung Canopy.....  | 77.34                  | 12.52                |
|  |     |     | Note: Up to 7' projection from wall. Includes finished underside and edges.  |                        |                      |
|  |     |     | <i>For End Braced (Up To 16' Wall Projection), Add</i>   | 18.08                  |                      |
|  |     |     | <i>For Overhead Braced (Up To 10' Wall Projection), Add</i>  | 10.35                  |                      |
| 13 34 19 00-0164   | SF  |     | >50 SF, Prefinished Aluminum, Wall Hung Canopy.....  | 58.71                  | 10.72                |
|  |     |     | Note: Up to 7' projection from wall. Includes finished underside and edges.  |                        |                      |
|  |     |     | <i>For End Braced (Up To 16' Wall Projection), Add</i>   | 13.60                  |                      |
|  |     |     | <i>For Overhead Braced (Up To 10' Wall Projection), Add</i>  | 7.73                   |                      |
| 13 34 19 00-0165   | SF  |     | Up To 50 SF, Prefinished Aluminum, Free Standing Canopy.....   | 113.15                 | 22.65                |
|  |     |     | Note: Includes finished underside and edges.   |                        |                      |
| 13 34 19 00-0166   | SF  |     | >50 SF, Prefinished Aluminum, Free Standing Canopy.....  | 75.99                  | 13.71                |
|  |     |     | Note: Includes finished underside and edges.   |                        |                      |
| 13 34 19 00-0167   | LF  |     | 1' Standard Eave Overhang Without Soffit.....  | 46.36                  |                      |
| 13 34 19 00-0168   | LF  |     | 2' Standard Eave Overhang Without Soffit.....  | 58.04                  |                      |
| 13 34 19 00-0169   | LF  |     | 3' Standard Eave Overhang Without Soffit.....  | 69.94                  |                      |
| 13 34 19 00-0170   | LF  |     | 4' Standard Eave Overhang Without Soffit.....  | 81.68                  |                      |
| 13 34 19 00-0171   | LF  |     | 6' Standard Eave Overhang Without Soffit.....  | 104.97                 |                      |
| 13 34 19 00-0172   | LF  |     | 1' Standard Eave Overhang And 26 Gauge Soffit.....   | 62.00                  |                      |
|  |     |     | <i>For 24 Gauge, Add</i>   | 7.01                   |                      |
| 13 34 19 00-0173   | LF  |     | 2' Standard Eave Overhang And 26 Gauge Soffit.....   | 77.56                  |                      |
|  |     |     | <i>For 24 Gauge, Add</i>   | 8.85                   |                      |
| 13 34 19 00-0174   | LF  |     | 3' Standard Eave Overhang And 26 Gauge Soffit.....   | 93.27                  |                      |
|  |     |     | <i>For 24 Gauge, Add</i>   | 10.60                  |                      |
| 13 34 19 00-0175   | LF  |     | 4' Standard Eave Overhang And 26 Gauge Soffit.....   | 109.00                 |                      |
|  |     |     | <i>For 24 Gauge, Add</i>   | 12.35                  |                      |
| 13 34 19 00-0176   | LF  |     | 6' Standard Eave Overhang And 26 Gauge Soffit.....   | 139.43                 |                      |
|  |     |     | <i>For 24 Gauge, Add</i>   | 15.91                  |                      |
| <b>13 34 19 00-0177 Louvers And Vents For Metal Buildings (13 34 19 00-0109)</b>         |     |     |  |                        |                      |
| 13 34 19 00-0178   | EA  |     | 4' x 3' Fixed Louver.....  | 708.76                 | 185.95               |
| 13 34 19 00-0179   | EA  |     | 12" Rotary Vent With Damper.....   | 429.93                 | 119.20               |
| 13 34 19 00-0180   | EA  |     | 20" Rotary Vent With Damper.....   | 760.57                 | 159.14               |
| 13 34 19 00-0181   | EA  |     | 24" Rotary Vent With Damper.....   | 1,009.36               | 178.81               |
| 13 34 19 00-0182   | EA  |     | Gravity Ridge Ventilator With Birdscreen, 9" Throat x 10'.....   | 1,155.17               | 238.40               |
| 13 34 19 00-0183   | EA  |     | Gravity Ridge Ventilator With Birdscreen, 12" Throat x 10'.....  | 1,232.38               | 238.40               |
| 13 34 19 00-0184   | EA  |     | Ridge Ventilator - 9" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....                                | 1,434.48               | 238.40               |
| 13 34 19 00-0185   | EA  |     | Ridge Ventilator - 12" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....                               | 1,567.49               | 238.40               |
| 13 34 19 00-0186   | EA  |     | Ridge Ventilator - 15" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....                               | 1,713.80               | 238.40               |
| 13 34 19 00-0187   | EA  |     | Ridge Ventilator - 18" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....                               | 1,860.11               | 238.40               |
| 13 34 19 00-0188   | EA  |     | Ridge Ventilator - 9" Throat X 10 Ft, Motor Operated Damper With Birdscreen.....                                   | 2,444.85               | 298.01               |
| 13 34 19 00-0189   | EA  |     | Ridge Ventilator - 12" Throat X 10 Ft, Motor Operated Damper With Birdscreen.....                                  | 2,684.27               | 298.01               |
| <b>13 34 19 00-0190 Gutters And Downspouts For Metal Buildings (13 34 19 00-0109)</b>    |     |     |  |                        |                      |
| 13 34 19 00-0191   | LF  |     | Pre-Engineered Standard Type Gutter, Painted.....  | 11.55                  | 2.98                 |
|  |     |     | <i>For Galvanized Instead Of Painted, Deduct</i>   | -1.40                  |                      |
| 13 34 19 00-0192   | LF  |     | Pre-Engineered Standard Type Downspout, Painted.....   | 10.57                  | 4.18                 |
|  |     |     | <i>For Galvanized Instead Of Painted, Deduct</i>   | -0.56                  |                      |



|   |              |           |
|---|--------------|-----------|
| <b>Special Construction</b>             | <b>13</b>    | <b>13</b> |
| <b>Special Structures</b>               | <b>13 30</b> |           |
| <b>Fabricated Engineered Structures</b> | <b>13 34</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**13 34 23 Fabricated Structures** (13 34)

**13 34 23 13 Portable and Mobile Buildings** (13 34 23)

**13 34 23 13-0001 Prefabricated Signal, Communication Or Electrical Building** (13 34 23 13)  
 Note: Complete, includes door, roof, lights and wiring, insulation, painted.

|                     |   |        |  |
|---------------------|---|--------|--|
| 13 34 23 13-0002 SF | 15 SF To 29 SF Prefabricated Signal, Communication Or Electrical Building .....   | 513.65 |  |
| 13 34 23 13-0003 SF | 30 SF To 49 SF Prefabricated Signal, Communication Or Electrical Building .....   | 440.61 |  |
| 13 34 23 13-0004 SF | 50 SF To 79 SF Prefabricated Signal, Communication Or Electrical Building .....   | 352.67 |  |
| 13 34 23 13-0005 SF | 80 SF To 99 SF Prefabricated Signal, Communication Or Electrical Building .....   | 279.04 |  |
| 13 34 23 13-0006 SF | 100 SF To 144 SF Prefabricated Signal, Communication Or Electrical Building ..... | 249.38 |  |

**13 34 23 13-0007 Temporary Trailers 1 To 6 Years Life** (13 34 23 13)  
 Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, phone jacks, two wooden landings, stairs, and handrails. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.

|                     |  |          |  |
|---------------------|--|----------|--|
| 13 34 23 13-0008 SF | Single Trailer Up To 14' x 73' .....                           | 67.31    |  |
|                     | For Each Delivery And Set-Up (Block And Level), Add .....      | 1,419.06 |  |
|                     | For Each Knock-Down And Pick-Up, Add .....                     | 1,139.06 |  |
|                     | For Each Anchoring Into Asphalt Or Concrete, Add .....         | 110.00   |  |
| 13 34 23 13-0009 SF | Modular Trailers, Connected .....                              | 94.24    |  |
|                     | For Each Anchoring Into Asphalt Or Concrete, Add .....         | 110.00   |  |
|                     | For Each Delivery And Set-Up (Block And Level), Add .....      | 3,144.14 |  |
|                     | For Each Knock-Down And Pick-Up, Add .....                     | 2,494.14 |  |
| 13 34 23 13-0010 EA | Add Per Additional Exterior Door With Frame And Hardware ..... | 1,009.72 |  |

**13 34 23 13-0011 Accessories** (13 34 23 13)

**13 34 23 13-0012 Skirting** (13 34 23 13-0011)  
 Note: Includes 2" x 4" wood framing 16" on center.

**13 34 23 13-0013 Vinyl Covered, Exterior Only** (13 34 23 13-0012)

|                     |                                      |      |      |
|---------------------|--------------------------------------|------|------|
| 13 34 23 13-0014 SF | 1'-8" High Vinyl Covered Skirt ..... | 5.63 | 2.17 |
| 13 34 23 13-0015 SF | 3' High Vinyl Covered Skirt .....    | 8.29 | 3.58 |

**13 34 23 13-0016 Fiberglass, Exterior Only** (13 34 23 13-0012)

|                     |                                   |       |      |
|---------------------|-----------------------------------|-------|------|
| 13 34 23 13-0017 SF | 1'-8" High Fiberglass Skirt ..... | 10.13 | 4.09 |
| 13 34 23 13-0018 SF | 3' High Fiberglass Skirt .....    | 11.79 | 4.99 |

**13 34 23 13-0019 Plywood, Exterior Only** (13 34 23 13-0012)

|                     |                                     |       |      |
|---------------------|-------------------------------------|-------|------|
| 13 34 23 13-0020 SF | 1'-8" High 5/8" Plywood Skirt ..... | 9.77  | 4.35 |
| 13 34 23 13-0021 SF | 3' High 5/8" Plywood Skirt .....    | 11.57 | 5.25 |

**13 34 23 13-0022 Steel, Painted, Exterior Only** (13 34 23 13-0012)

|                     |                                       |       |      |
|---------------------|---------------------------------------|-------|------|
| 13 34 23 13-0023 SF | 1'-8" High 26 Gauge Steel Skirt ..... | 11.08 | 4.09 |
| 13 34 23 13-0024 SF | 3' High 26 Gauge Steel Skirt .....    | 12.88 | 4.99 |

**13 34 23 13-0025 14" x 14" Access Hatch** (13 34 23 13-0011)  
 Note: Simple design.

|                     |   |        |       |
|---------------------|---|--------|-------|
| 13 34 23 13-0026 EA | 14" x 14" Vinyl Covered Access Hatch .....  | 278.43 | 96.02 |
| 13 34 23 13-0027 EA | 14" x 14" Fiberglass Access Hatch .....     | 238.89 | 96.02 |
| 13 34 23 13-0028 EA | 14" x 14" Plywood Access Hatch .....        | 276.52 | 96.02 |
| 13 34 23 13-0029 EA | 14" x 14" 26 Gauge Steel Access Hatch ..... | 278.09 | 96.02 |

**13 34 23 13-0030 Aluminum Modular Access Ramp** (13 34 23 13-0011)  
 Note: Includes picketed guardrails, inside grabrails, legs and hardware.

|                     |  |          |       |
|---------------------|--|----------|-------|
| 13 34 23 13-0031 EA | 72" Long x 52-1/4" Wide Ramp Section, Aluminum Modular Access Ramp .....                     | 3,677.33 | 31.97 |
| 13 34 23 13-0032 EA | 60-1/4" Long x 61-3/4" Wide Door Landing Section, Aluminum Modular Access Ramp .....         | 3,715.70 | 41.56 |
| 13 34 23 13-0033 EA | 60-1/4" Long x 123-1/2" Wide Switchback Landing Section, Aluminum Modular Access Ramp .....  | 7,647.22 | 63.94 |
| 13 34 23 13-0034 EA | 110-3/4" Long x 72" Wide Switchback Landing Section, Aluminum Modular Access Ramp .....      | 8,239.72 | 63.94 |
| 13 34 23 13-0035 EA | 60-1/4" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp ..... | 3,863.83 | 41.56 |
| 13 34 23 13-0036 EA | 71-3/4" Long x 52-1/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp ..... | 3,825.46 | 31.97 |
| 13 34 23 13-0037 EA | 84-1/2" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp ..... | 5,341.38 | 41.56 |
| 13 34 23 13-0038 EA | 30" High x 82" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp .....          | 3,791.61 | 41.56 |
| 13 34 23 13-0039 EA | 35" High x 96" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp .....          | 3,791.61 | 41.56 |
| 13 34 23 13-0040 EA | 42" High x 110" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp .....         | 4,315.61 | 41.56 |
| 13 34 23 13-0041 EA | 49" High x 124" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp .....         | 4,835.90 | 41.56 |

**13 34 23 13-0042 Relocate Portable And Mobile Trailer** (13 34 23 13)

Note: Excludes anchors, skirting, steps, ramps, utility hook-ups and foundation. See CSI section 01 22 16 00-0002 for reimbursable permit fees, 01 22 20 00-0073 for escort vehicle, 13 34 23 13-0012 for skirting, 26 05 46 00-0060 for anchors.

**13 Special Construction****13 30 Special Structures****13 34 Fabricated Engineered Structures**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 13 34 23 13-0043 EA Prepare, Up To 12' Wide, Single Trailer For Transporstation .....<br>Note: Includes securing interior, mounting tires, and mounting trailer hitch   | 851.62                                   |                         |
| 13 34 23 13-0044 EA Separate, 24' Wide Double Trailer And Prepare For Transporstation .....<br>Note: Includes separating trailers, securing interior, installing plastic and boards to open side of each (2) trailers,<br>mounting tires, and mounting trailer hitch.                                 | 4,256.91                                 |                         |
| 13 34 23 13-0045 EA Remove Blocking From 8' Wide x Up To 35' Long Trailer.....<br>Note: Per trailer   | 374.71                                   |                         |
| 13 34 23 13-0046 EA Remove Blocking From 10' Wide x 40' To 50' Long Trailer.....<br>Note: Per trailer   | 476.90                                   |                         |
| 13 34 23 13-0047 EA Remove Blocking From 12' Wide x 45' To 60' Long Trailer.....<br>Note: Per trailer   | 579.10                                   |                         |
| 13 34 23 13-0048 EA Remove Blocking From 24' Wide x 45' To 60' Long Trailer.....<br>Note: Per trailer   | 1,158.21                                 |                         |
| 13 34 23 13-0049 MI Transportation And Delivery Of Trailer.....<br>See CSI section 01 22 20 00-0074 for escort vehicle service (when required).   | 19.66                                    |                         |
| 13 34 23 13-0050 EA Re-connect 24' Wide Double Trailer .....<br>Note: Includes removal of temporary plastic and boards, caulking, installation of flooring, ceiling and roofing seams.<br>Excludes blocking and leveling. See CSI section 13 34 23 13-0053 for blocking and leveling of each section. | 8,759.41                                 |                         |
| 13 34 23 13-0051 EA Set-Up (Block And Level) Trailer, 8' Wide x Up To 35' Long.....<br>Note: Per trailer  | 468.39                                   |                         |
| 13 34 23 13-0052 EA Set-Up (Block And Level) Trailer, 10' Wide x 40' To 50' Long.....<br>Note: Per trailer  | 596.14                                   |                         |
| 13 34 23 13-0053 EA Set-Up (Block And Level) Trailer, 12' Wide x 45' To 60' Long.....<br>Note: Per trailer  | 723.88                                   |                         |
| 13 34 23 13-0054 EA Set-Up (Block And Level) Trailer, 24' Wide x 45' To 60' Long.....<br>Note: Per trailer  | 1,447.75                                 |                         |
| 13 34 23 13-0055 EA Connection Straps To Anchor.....<br>Note: Includes straps per each anchor See CSI section 26 05 46 00-0060 for anchors.   | 21.29                                    |                         |
| <b>13 34 23 14 Fabricated Classroom Buildings (13 34 23)</b>  |  |                         |
| <b>13 34 23 14-0001 Semi Permanent Modular Transportable Buildings (13 34 23 14)</b>  |  |                         |
| 13 34 23 14-0002 SF Portable Classrooms, Complete With Doors, Windows, Fixtures, Toilets And Workroom .....<br>For Each Anchoring Into Asphalt Or Concrete, Add<br>For Each Delivery And Set-Up (Block And Level), Add<br>For Each Knock-Down And Pick-Up, Add  | 100.30<br>110.00<br>3,144.14<br>2,494.14 |                         |
| 13 34 23 14-0003 SF Modular Classroom, Connected, Complete With Doors, Windows, Fixtures, Toilets And Teachers Work Room.....<br>For Each Anchoring Into Asphalt Or Concrete, Add<br>For Each Delivery And Set-Up (Block And Level), Add<br>For Each Knock-Down And Pick-Up, Add                      | 103.27<br>110.00<br>3,144.14<br>2,494.14 |                         |
| <b>13 34 23 16 Fabricated Control Booths (13 34 23)</b>   |  |                         |
| <b>13 34 23 16-0001 Fabricated Parking Attendant Booths (13 34 23 16)</b>   |  |                         |
| Note: Excludes foundations and slab.  |  |                         |
| 13 34 23 16-0002 EA Parking Booth For Attendant.....  | 1,778.22                                 |                         |
| <b>13 34 23 31 Fabricated Pavilion Style Buildings (13 34 23)</b>   |  |                         |
| <b>13 34 23 31-0001 Pavilion Style Metal Shelter Structures (13 34 23 31)</b>   |  |                         |
| Note: Prefabricated open structure system, complete with all necessary hardware. Hip roof, steel structural<br>rafters and columns, urethane/polyester (TGIC) powder finish, aluminum roof decking, 8' height at perimeter.<br>Excludes foundations and slab. Americana or equal.                     |  |                         |
| 13 34 23 31-0002 EA 12' x 12' Pavilion Style Metal Shelter Structure.....   | 13,254.10                                | 2,285.84                |
| 13 34 23 31-0003 EA 16' x 16' Pavilion Style Metal Shelter Structure.....   | 15,648.62                                | 2,385.25                |
| 13 34 23 31-0004 EA 16' x 32' Pavilion Style Metal Shelter Structure.....   | 20,098.89                                | 2,544.27                |
| 13 34 23 31-0005 EA 20' x 20' Pavilion Style Metal Shelter Structure.....   | 18,857.54                                | 2,464.76                |
| 13 34 23 31-0006 EA 20' x 30' Pavilion Style Metal Shelter Structure.....   | 23,426.40                                | 2,703.28                |
| 13 34 23 31-0007 EA 20' x 40' Pavilion Style Metal Shelter Structure.....   | 28,038.44                                | 2,782.79                |
| 13 34 23 31-0008 EA 24' x 24' Pavilion Style Metal Shelter Structure.....   | 23,187.47                                | 2,544.27                |
| 13 34 23 31-0009 EA 24' x 48' Pavilion Style Metal Shelter Structure.....   | 32,846.17                                | 3,180.33                |
| 13 34 23 31-0010 EA 30' x 30' Pavilion Style Metal Shelter Structure.....   | 31,541.37                                | 3,180.33                |
| 13 34 23 31-0011 EA 30' x 60' Pavilion Style Metal Shelter Structure.....   | 63,407.84                                | 3,975.42                |
| 13 34 23 31-0012 EA 40' x 40' Pavilion Style Metal Shelter Structure.....   | 58,321.01                                | 4,968.37                |
| 13 34 23 31-0013 EA 40' x 60' Pavilion Style Metal Shelter Structure.....   | 84,941.13                                | 5,565.58                |
| <b>13 40 Integrated Construction (13)</b>   |  |                         |
| <b>13 42 Building Modules (13 40)</b>   |  |                         |
| <b>13 42 63 Detention Cell Modules (13 42)</b>  |  |                         |
| <b>13 42 63 16 Steel Detention Cell Modules (13 42 63)</b>  |  |                         |
| 13 42 63 16-0001 EA Bar Front, Rolling, 7/8" Bars, 4" On Center, 7' High, 5' Wide .....<br>Note: With hardware.   | 17,878.05                                | 915.95                  |
| 13 42 63 16-0002 EA Cells, Prefabricated, 5'-6' Wide, 7'-8' High, Bar Front, Cot.....<br>Note: Not including plumbing.  | 32,322.02                                | 1,226.47                |
| 13 42 63 16-0003 SF Temporary Holding Cell, 1/4" Woven Rod Panels On 2" Centers.....<br>Note: Includes 12 gauge steel frame and concealment plates.   | 137.08                                   | 8.68                    |



|                                |              |           |
|--------------------------------|--------------|-----------|
| <b>Special Construction</b>    | <b>13</b>    | <b>13</b> |
| <b>Integrated Construction</b> | <b>13 40</b> |           |
| <b>Building Modules</b>        | <b>13 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 13 42 63 16-0004 SF Solid Security Ceiling, 14 Gauge Formed Steel Channels.....<br>Note: 20" wide, 14 gauge galvanized steel face sheet, 10 gauge steel wall angle, backed polyester powder finish. | 102.79                    | 8.68                    |
| 13 42 63 16-0005 SF Perforated Metal Crime Shield.....  | 99.32                     | 3.59                    |
| <b>13 46 Lightning Protection Systems (13 40)</b>   |                           |                         |
| <b>13 46 13 Lightning Protection for Structures (13 46)</b>   |                           |                         |
| 13 46 13 00-0001 Lightning Protection (13 46 13)<br>See CSI section 26 05 26 00-0001 for conductors.  |                           |                         |
| 13 46 13 00-0002 Air Terminals For Lightning Protection (13 46 13 00-0001)  |                           |                         |
| 13 46 13 00-0003 Copper Lightning Protection Air Terminals (13 46 13 00-0002)   |                           |                         |
| 13 46 13 00-0004 EA 3/8" x 10" Copper Lightning Protection Air Terminal.....  | 75.25                     | 15.39                   |
| 13 46 13 00-0005 EA 1/2" x 12" Copper Lightning Protection Air Terminal.....  | 94.00                     | 15.39                   |
| 13 46 13 00-0006 EA 5/8" x 12" Copper Lightning Protection Air Terminal.....  | 120.92                    | 15.39                   |
| 13 46 13 00-0007 EA 1/2" x 24" Copper Lightning Protection Air Terminal.....  | 134.63                    | 15.39                   |
| 13 46 13 00-0008 EA 1/2" x 60" Copper Lightning Protection Air Terminal.....  | 258.23                    | 30.76                   |
| 13 46 13 00-0009 Aluminum Lightning Protection Air Terminals (13 46 13 00-0002)   |                           |                         |
| 13 46 13 00-0010 EA 3/8" x 10" Aluminum Lightning Protection Air Terminal.....  | 87.43                     | 15.39                   |
| 13 46 13 00-0011 EA 1/2" x 12" Aluminum Lightning Protection Air Terminal.....  | 111.65                    | 15.39                   |
| 13 46 13 00-0012 EA 5/8" x 12" Aluminum Lightning Protection Air Terminal.....  | 141.37                    | 15.39                   |
| 13 46 13 00-0013 EA 1/2" x 24" Aluminum Lightning Protection Air Terminal.....  | 157.21                    | 15.39                   |
| 13 46 13 00-0014 EA 1/2" x 60" Aluminum Lightning Protection Air Terminal.....  | 304.66                    | 30.76                   |
| 13 46 13 00-0015 Terminal Bases For Lightning Protection (13 46 13 00-0001)   |                           |                         |
| 13 46 13 00-0016 Copper Lightning Protection Terminal Bases (13 46 13 00-0015)  |                           |                         |
| 13 46 13 00-0017 EA Adhesive Base For Copper Lightning Protection Terminal.....   | 112.60                    | 46.15                   |
| 13 46 13 00-0018 EA Bolted Base For Copper Lightning Protection Terminal.....   | 153.80                    | 61.53                   |
| 13 46 13 00-0019 EA Hinged Base For Copper Lightning Protection Terminal.....   | 204.73                    | 76.91                   |
| 13 46 13 00-0020 EA Side Mounted Base For Copper Lightning Protection Terminal.....   | 153.80                    | 61.53                   |
| 13 46 13 00-0021 EA Offset Point Support For Copper Lightning Protection Terminal.....  | 162.17                    | 61.53                   |
| 13 46 13 00-0022 EA Concealed Base Assembly For Copper Lightning Protection Terminal.....   | 290.78                    | 123.05                  |
| 13 46 13 00-0023 EA 36" Tripod Base For 60" Copper Lightning Protection Terminal.....   | 202.54                    | 76.91                   |
| 13 46 13 00-0024 EA Intermediate Base For Copper Lightning Protection Terminal.....   | 112.60                    | 46.15                   |
| 13 46 13 00-0025 Aluminum Lightning Protection Terminal Bases (13 46 13 00-0015)  |                           |                         |
| 13 46 13 00-0026 EA Adhesive Base For Aluminum Lightning Protection Terminal.....   | 116.23                    | 46.15                   |
| 13 46 13 00-0027 EA Bolted Base For Aluminum Lightning Protection Terminal.....   | 159.76                    | 61.53                   |
| 13 46 13 00-0028 EA Hinged Base For Aluminum Lightning Protection Terminal.....   | 214.28                    | 76.91                   |
| 13 46 13 00-0029 EA Side Mounted Base For Aluminum Lightning Protection Terminal.....   | 160.26                    | 61.53                   |
| 13 46 13 00-0030 EA Offset Point Support For Aluminum Lightning Protection Terminal.....  | 167.31                    | 61.53                   |
| 13 46 13 00-0031 EA Concealed Base Assembly For Aluminum Lightning Protection Terminal.....   | 304.03                    | 123.05                  |
| 13 46 13 00-0032 EA 36" Tripod Base For 60" Aluminum Lightning Protection Terminal.....   | 204.65                    | 76.91                   |
| 13 46 13 00-0033 EA Intermediate Base For Aluminum Lightning Protection Terminal.....   | 116.23                    | 46.15                   |
| 13 46 13 00-0034 Connectors (13 46 13 00-0001)  |                           |                         |
| 13 46 13 00-0035 Copper Cable Connectors (13 46 13 00-0034)   |                           |                         |
| 13 46 13 00-0036 EA Thru Wall Cable Connector For Copper Lightning Protection System.....   | 226.89                    | 76.91                   |
| 13 46 13 00-0037 EA Thru Roof Adapter Assembly For Copper Lightning Protection System.....  | 313.39                    | 123.05                  |
| 13 46 13 00-0038 EA Beam Connector For Copper Lightning Protection System.....  | 206.25                    | 76.91                   |
| 13 46 13 00-0039 EA Double Bolt Cable Connector For Copper Lightning Protection System.....   | 48.08                     | 15.39                   |
| 13 46 13 00-0040 EA Cable To Bar Connector For Copper Lightning Protection System.....  | 48.72                     | 15.39                   |
| 13 46 13 00-0041 EA Tee Connector For Copper Lightning Protection Terminal.....   | 149.14                    | 46.15                   |
| 13 46 13 00-0042 Aluminum Cable Connectors (13 46 13 00-0034)   |                           |                         |
| 13 46 13 00-0043 EA Thru Wall Cable Connector For Aluminum Lightning Protection System.....   | 235.95                    | 76.91                   |
| 13 46 13 00-0044 EA Thru Roof Adapter Assembly For Aluminum Lightning Protection System.....  | 333.01                    | 123.05                  |
| 13 46 13 00-0045 EA Beam Connector For Aluminum Lightning Protection System.....  | 220.83                    | 76.91                   |
| 13 46 13 00-0046 EA Double Bolt Cable Connector For Aluminum Lightning Protection System.....   | 52.16                     | 15.39                   |
| 13 46 13 00-0047 EA Tee Connector For Aluminum Lightning Protection Terminal.....   | 154.35                    | 46.15                   |
| 13 46 13 00-0048 Bonding Plates (13 46 13 00-0001)  |                           |                         |
| 13 46 13 00-0049 Copper Bonding Plates (13 46 13 00-0048)   |                           |                         |
| 13 46 13 00-0050 EA 8" Square I Beam Bonding Plate For Copper Lightning Protection System.....  | 186.31                    | 76.91                   |
| 13 46 13 00-0051 EA 8" Square Purlin Bonding Plate For Copper Lightning Protection System.....  | 191.42                    | 76.91                   |
| 13 46 13 00-0052 EA 16" Square Bonding Plate For Copper Lightning Protection System.....  | 282.59                    | 123.05                  |



|              |                                     |
|--------------|-------------------------------------|
| <b>13</b>    | <b>Special Construction</b>         |
| <b>13 40</b> | <b>Integrated Construction</b>      |
| <b>13 46</b> | <b>Lightning Protection Systems</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>13 46 13 00-0053 Aluminum Bonding Plates</b> <small>(13 46 13 00-0048)</small>                      |                           |                         |
| 13 46 13 00-0054 EA 8" Square I Beam Bonding Plate For Aluminum Lightning Protection System.....       | 188.08                    | 76.91                   |
| 13 46 13 00-0055 EA 8" Square Purlin Bonding Plate For Aluminum Lightning Protection System.....       | 196.14                    | 76.91                   |
| 13 46 13 00-0056 EA 16" Square Bonding Plate For Aluminum Lightning Protection System.....             | 283.37                    | 123.05                  |
| <b>13 46 13 00-0057 Cable Supports</b> <small>(13 46 13 00-0001)</small>                               |                           |                         |
| <b>13 46 13 00-0058 Copper Cable Supports</b> <small>(13 46 13 00-0057)</small>                        |                           |                         |
| 13 46 13 00-0059 EA Loop Fastener, Copper Cable Supports For Lightning Protection System.....          | 34.82                     | 15.39                   |
| 13 46 13 00-0060 EA Adhesive Cable Holder, Copper Cable Support For Lightning Protection System.....   | 35.39                     | 15.39                   |
| <b>13 46 13 00-0061 Aluminum Cable Supports</b> <small>(13 46 13 00-0057)</small>                      |                           |                         |
| 13 46 13 00-0062 EA Loop Fastener, Aluminum Cable Supports For Lightning Protection System.....        | 34.36                     | 15.39                   |
| 13 46 13 00-0063 EA Adhesive Cable Holder, Aluminum Cable Support For Lightning Protection System..... | 34.17                     | 15.39                   |
| <b>13 46 13 00-0064 Bonding Straps</b> <small>(13 46 13 00-0001)</small>                               |                           |                         |
| <b>13 46 13 00-0065 Copper Bonding Straps</b> <small>(13 46 13 00-0064)</small>                        |                           |                         |
| 13 46 13 00-0066 EA 3/4" x 9-1/2" Flex Braided Strap For Copper Lightning Protection System.....       | 97.23                     | 46.15                   |
| <b>13 46 13 00-0067 Aluminum Bonding Straps</b> <small>(13 46 13 00-0064)</small>                      |                           |                         |
| 13 46 13 00-0068 EA 3/4" x 9-1/2" Flex Braided Strap For Aluminum Lightning Protection System.....     | 99.10                     | 46.15                   |
| <b>13 46 13 00-0069 Accessories For Lightning Protection</b> <small>(13 46 13 00-0001)</small>         |                           |                         |
| See CSI section 26 05 26 00-0001 for conductors straps and conduit jumpers.                            |                           |                         |
| <b>13 46 13 00-0070 Copper Adapters</b> <small>(13 46 13 00-0069)</small>                              |                           |                         |
| 13 46 13 00-0071 EA Swivel Adapters For Copper Lightning Protection System.....                        | 34.62                     | 7.69                    |
| <b>13 46 13 00-0072 Aluminum Adapters</b> <small>(13 46 13 00-0069)</small>                            |                           |                         |
| 13 46 13 00-0073 EA Swivel Adapters For Aluminum Lightning Protection System.....                      | 43.75                     | 7.69                    |
| 13 46 13 00-0074 EA Floor Ground Receptacle For Aluminum Lightning Protection System.....              | 229.02                    | 76.91                   |

### 13 47 Facility Protection (13 40)

#### 13 47 13 Cathodic Protection (13 47)

##### 13 47 13 13 Cathodic Protection for Underground and Submerged Piping (13 47 13)

|  |          |        |
|--|----------|--------|
| <b>13 47 13 13-0001 Anodes</b> <small>(13 47 13 13)</small>                            |          |        |
| <b>13 47 13 13-0002 Magnesium Type, Conventional</b> <small>(13 47 13 13-0001)</small> |          |        |
| 13 47 13 13-0003 EA 9 LB Magnesium Type Anodes.....                                    | 475.59   | 214.32 |
| 13 47 13 13-0004 EA 17 LB Magnesium Type Anodes.....                                   | 701.56   | 309.75 |
| 13 47 13 13-0005 EA 32 LB Magnesium Type Anode.....                                    | 945.93   | 398.50 |
| 13 47 13 13-0006 EA 48 LB Magnesium Type Anode.....                                    | 1,342.31 | 557.55 |
| <b>13 47 13 13-0007 Graphite Type</b> <small>(13 47 13 13-0001)</small>                |          |        |
| Note: Includes epoxy cap.  |          |        |
| 13 47 13 13-0008 EA 3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap.....          | 723.78   | 312.03 |
| 13 47 13 13-0009 EA 4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap.....          | 1,102.48 | 435.71 |
| 13 47 13 13-0010 EA 6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap.....          | 801.08   | 272.67 |
| 13 47 13 13-0011 EA 6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap.....          | 1,199.80 | 364.03 |
| <b>13 47 13 13-0012 Rectifiers</b> <small>(13 47 13 13)</small>                        |          |        |
| <b>13 47 13 13-0013 Air Cooled, Silicon Type</b> <small>(13 47 13 13-0012)</small>     |          |        |
| 13 47 13 13-0014 EA Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....      | 2,305.46 | 443.00 |
| 13 47 13 13-0015 EA Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....     | 2,482.61 | 443.00 |
| <b>13 47 13 13-0016 Oil Immersed, Silicon Type</b> <small>(13 47 13 13-0012)</small>   |          |        |
| 13 47 13 13-0017 EA Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....    | 3,427.57 | 512.22 |
| 13 47 13 13-0018 EA Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....   | 3,617.37 | 512.22 |
| <b>13 47 13 13-0019 Anode Backfill</b> <small>(13 47 13 13)</small>                    |          |        |
| 13 47 13 13-0020 LB Anode Backfill, Coke Breeze.....                                   | 1.45     | 0.56   |
| <b>13 47 13 13-0021 Cathodic Protection Cable</b> <small>(13 47 13 13)</small>         |          |        |



|                                |              |           |
|--------------------------------|--------------|-----------|
| <b>Special Construction</b>    | <b>13</b>    | <b>13</b> |
| <b>Integrated Construction</b> | <b>13 40</b> |           |
| <b>Facility Protection</b>     | <b>13 47</b> |           |

| MINOR<br>CSI UOM DESCRIPTION                                     | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 13 47 13 13-0022 MLF Cathodic Protection Cable, OR2 - No 8 ..... | 2,647.41                  | 1,090.68                |
| 13 47 13 13-0023 MLF Cathodic Protection Cable, OR2 - No 6 ..... | 2,853.71                  | 1,090.68                |
| 13 47 13 13-0024 MLF Cathodic Protection Cable, OR2 - No 4 ..... | 3,163.15                  | 1,090.68                |
| 13 47 13 13-0025 MLF Cathodic Protection Cable, OR2 - No 2 ..... | 3,678.89                  | 1,090.68                |
| 13 47 13 13-0026 MLF Cathodic Protection Cable, OR2 - No 1 ..... | 4,462.13                  | 1,201.72                |
| 13 47 13 13-0027 MLF Cathodic Protection Cable, OR2-No 1/0 ..... | 4,848.94                  | 1,201.72                |
| 13 47 13 13-0028 MLF Cathodic Protection Cable, OR2-No 2/0 ..... | 5,493.62                  | 1,201.72                |
| 13 47 13 13-0029 MLF Cathodic Protection Cable, OR2-No 4/0 ..... | 7,256.33                  | 1,309.93                |

|                  |  |        |        |
|------------------|--|--------|--------|
| 13 47 13 13-0030 | Cathodic Test Stations <small>(13 47 13 13)</small>  |        |        |
| 13 47 13 13-0031 | Flush Curb Box Type With Lockable Cover And Terminal Box <small>(13 47 13 13-0030)</small> |        |        |
| 13 47 13 13-0032 | EA Cathodic Test Station, Flush Curb Type With Lockable Cover .....                        | 355.53 | 127.67 |

**13 47 13 16 Cathodic Protection for Underground Storage Tanks** (13 47 13)  
See CSI section 13 47 13 13-0000 for cathodic protection for tanks.

**13 48 Sound, Vibration, and Seismic Control** (13 40)

**13 48 63 Fabricated Seismic Control Assemblies** (13 48)

|                  |   |        |  |
|------------------|---|--------|--|
| 13 48 63 00-0001 | Seismic Bracing Assembly <small>(13 48 63)</small>  |        |  |
| 13 48 63 00-0002 | EA 4-Bolt Deck Anchor Connection For Seismic Brace .....  | 181.23 |  |
|                  | Note: Includes drilling into concrete, bolts, anchor plate, seismic bracket attached with bolt, nut and washer. |        |  |
| 13 48 63 00-0003 | EA 2 Cable Seismic Brace With Center Threaded Rod Stiffener .....   | 172.45 |  |
|                  | Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.       |        |  |
| 13 48 63 00-0004 | EA 3 Cable Seismic Brace With Center Threaded Rod Stiffener .....   | 257.80 |  |
|                  | Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.       |        |  |
| 13 48 63 00-0005 | EA 4 Cable Seismic Brace With Center Threaded Rod Stiffener .....   | 333.54 |  |
|                  | Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.       |        |  |
| 13 48 63 00-0006 | EA 2 Channel Seismic Brace With Center Threaded Rod Stiffener .....   | 360.19 |  |
|                  | Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.     |        |  |
| 13 48 63 00-0007 | EA 3 Channel Seismic Brace With Center Threaded Rod Stiffener .....   | 534.59 |  |
|                  | Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.     |        |  |
| 13 48 63 00-0008 | EA 4 Channel Seismic Brace With Center Threaded Rod Stiffener .....   | 709.00 |  |
|                  | Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.     |        |  |
| 13 48 63 00-0009 | EA 2 Rod Seismic Brace With Center Threaded Rod Stiffener .....   | 213.38 |  |
|                  | Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.         |        |  |
| 13 48 63 00-0010 | EA 3 Rod Seismic Brace With Center Threaded Rod Stiffener .....   | 314.38 |  |
|                  | Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.         |        |  |
| 13 48 63 00-0011 | EA 4 Rod Seismic Brace With Center Threaded Rod Stiffener .....   | 415.38 |  |
|                  | Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.         |        |  |

**13 48 63 00-0012 Seismic Brace Components** (13 48 63)

|                  |  |        |  |
|------------------|--|--------|--|
| 13 48 63 00-0013 | EA 1/8" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-1) .....                     | 37.79  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0014 | EA 3/16" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-2) .....                    | 50.92  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0015 | EA 1/4" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-3) .....                     | 66.68  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0016 | EA 3/8" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-4) .....                     | 90.29  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0017 | EA Seismic Solid Brace Swivel Anchor (Mason SSB-1) .....   | 35.65  |  |
|                  | Note: To be used with angle or channel.  |        |  |
| 13 48 63 00-0018 | EA Seismic Solid Brace Swivel Anchor (Mason SSB-2) .....   | 47.20  |  |
|                  | Note: To be used with angle or channel.  |        |  |
| 13 48 63 00-0019 | EA Seismic Solid Brace Swivel Anchor (Mason SSB-3) .....   | 61.24  |  |
|                  | Note: To be used with angle or channel.  |        |  |
| 13 48 63 00-0020 | EA Seismic Solid Brace Swivel Anchor (Mason SSB-4) .....   | 81.87  |  |
|                  | Note: To be used with angle or channel.  |        |  |
| 13 48 63 00-0021 | EA 1/8" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-1) .....                      | 42.66  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0022 | EA 3/16" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-2) .....                     | 55.46  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0023 | EA 1/4" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-3) .....                      | 76.09  |  |
|                  | Note: To be used with 7x19 stranded cable.   |        |  |
| 13 48 63 00-0024 | EA 1/8" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-1) .....                      | 72.79  |  |
|                  | Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable. |        |  |
| 13 48 63 00-0025 | EA 3/16" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-2) .....                     | 101.27 |  |
|                  | Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable. |        |  |
| 13 48 63 00-0026 | EA 1/4" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-3) .....                      | 137.17 |  |
|                  | Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable. |        |  |
| 13 48 63 00-0027 | EA Seismic Rod Clamp (Mason SRC-1) .....   | 31.30  |  |
|                  | Note: To be used on 3/8" through 5/8" rod. 1" x 1" x 1/4" Angle or Stiffener not included.       |        |  |
| 13 48 63 00-0028 | EA Seismic Rod Clamp (Mason SRC-1 1/2) .....   | 37.90  |  |
|                  | Note: To be used on 3/8" through 1" rod. 1-1/2" x 1-1/2" x 1/4" Angle or Stiffener not included. |        |  |
| 13 48 63 00-0029 | EA Seismic Rod Clamp (Mason SRC-2) .....   | 46.98  |  |
|                  | Note: To be used on 3/8" through 1-1/4" rod. 2" x 2" x 1/4" Angle or Stiffener not included.     |        |  |

**13 48 63 00-0030 Seismic Restraints** (13 48 63)

**13 Special Construction****13 40 Integrated Construction****13 48 Sound, Vibration, and Seismic Control**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 13 48 63 00-0031 | EA  |     | 1" x 1" Seismic Fastener, Gray, Drilled With 0.187 Diameter Hole .....<br>Note: Adhesive applied.     | 5.57                   | 1.27                 |
| 13 48 63 00-0032 | EA  |     | 1" x 1" Seismic Fastener, Gray, Adhesive Applied.....   | 4.30                   | 0.63                 |
| 13 48 63 00-0033 | EA  |     | 1" x 2" Seismic Fastener, Gray, Drilled With (2) 0.187 Diameter Hole .....<br>Note: Adhesive applied. | 7.29                   | 1.59                 |
| 13 48 63 00-0034 | EA  |     | 1" x 2" Seismic Fastener, Gray, Adhesive Applied.....   | 5.49                   | 0.79                 |
| 13 48 63 00-0035 | EA  |     | 2" x 2" Seismic Fastener, Gray, Adhesive Applied.....   | 6.94                   | 0.93                 |
| 13 48 63 00-0036 | EA  |     | 2" x 3" Seismic Fastener, Gray, Adhesive Applied.....   | 11.65                  | 1.12                 |
| 13 48 63 00-0037 | LF  |     | 3/4" Wide Seismic Strap, Gray.....  | 4.97                   | 0.96                 |
| 13 48 63 00-0038 | LF  |     | 1" Wide Seismic Strap, Gray.....  | 7.29                   | 0.96                 |
| 13 48 63 00-0039 | EA  |     | 3/4" Wide x 4" Long Seismic Strap, Gray.....  | 2.41                   | 0.63                 |
| 13 48 63 00-0040 | EA  |     | 3/4" Wide x 12" Long Seismic Strap, Gray.....   | 10.82                  | 1.90                 |
| 13 48 63 00-0041 | LF  |     | Seismic Chord, Black.....   | 3.01                   | 0.96                 |
| 13 48 63 00-0042 | LF  |     | SAFELOK Seismic Fastener, Black.....  | 3.97                   | 0.96                 |

**13 49 Radiation Protection** (13 49)**13 49 13 Integrated X-Ray Shielding Assemblies** (13 49)

|                  |    |  |  |        |       |
|------------------|----|--|--|--------|-------|
| 13 49 13 00-0001 |    |  | Lead Shielding <small>(13 49 13)</small> |        |       |
| 13 49 13 00-0002 | SF |  | 1/16" Sheet Lead Shielding .....         | 48.55  | 7.63  |
| 13 49 13 00-0003 | SF |  | 1/8" Sheet Lead Shielding .....          | 83.12  | 8.26  |
| 13 49 13 00-0004 | SF |  | 1/4" Sheet Lead Shielding .....          | 148.81 | 8.89  |
| 13 49 13 00-0005 | SF |  | 1/2" Sheet Lead Shielding .....          | 284.83 | 11.43 |

**13 49 16 Modular X-Ray Shielding Rooms** (13 49)

|                  |    |  |   |           |        |
|------------------|----|--|---|-----------|--------|
| 13 49 16 00-0001 |    |  | X-Ray Barriers, Modular <small>(13 49 16)</small><br>Note: Panels mounted within framework for attaching to floor, wall or ceiling, upper portion is clear lead plastic window panels 48" high, lower portion is opaque leaded steel panels 36" high. Excludes structural supports. |           |        |
| 13 49 16 00-0002 |    |  | 36" Wide x 84" High, 1-Section Barrier, Modular X-Ray Barriers <small>(13 49 16 00-0001)</small>  |           |        |
| 13 49 16 00-0003 | EA |  | 0.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High .....  | 9,102.05  | 171.43 |
| 13 49 16 00-0004 | EA |  | 0.8mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High .....  | 9,663.54  | 171.43 |
| 13 49 16 00-0005 | EA |  | 1.0mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High .....  | 9,956.69  | 205.72 |
| 13 49 16 00-0006 | EA |  | 1.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High .....  | 10,630.47 | 205.72 |
| 13 49 16 00-0007 |    |  | 72" Wide x 84" High, 2-Section Barrier, Modular X-Ray Barriers <small>(13 49 16 00-0001)</small>  |           |        |
| 13 49 16 00-0008 | EA |  | 0.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....   | 19,526.80 | 274.30 |
| 13 49 16 00-0009 | EA |  | 0.8mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....   | 20,312.88 | 274.30 |
| 13 49 16 00-0010 | EA |  | 1.0mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....   | 20,943.01 | 308.59 |
| 13 49 16 00-0011 | EA |  | 1.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....   | 22,583.69 | 342.88 |
| 13 49 16 00-0012 |    |  | 108" Wide x 84" High, 3-Section Barrier, Modular X-Ray Barriers <small>(13 49 16 00-0001)</small>   |           |        |
| 13 49 16 00-0013 | EA |  | 0.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....  | 29,658.40 | 342.88 |
| 13 49 16 00-0014 | EA |  | 0.8mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....  | 31,118.26 | 342.88 |
| 13 49 16 00-0015 | EA |  | 1.0mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....  | 31,816.89 | 411.44 |
| 13 49 16 00-0016 | EA |  | 1.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....  | 34,131.29 | 445.73 |
| 13 49 16 00-0017 |    |  | X-Ray Barriers, Mobile <small>(13 49 16)</small><br>Note: Mounted within framework with casters on bottom, clear lead plastic window panels on upper portion, opaque on lower.  |           |        |
| 13 49 16 00-0018 |    |  | 30" Wide x 75" High, Mobile X-Ray Barriers <small>(13 49 16 00-0017)</small><br>Note: Includes Framework  |           |        |
| 13 49 16 00-0019 | EA |  | 24" H Upper With 0.5mm LE, 48" H Lower With 0.8mm LE Mobile X-Ray Barriers.....   | 6,239.85  | 31.76  |
| 13 49 16 00-0020 |    |  | 48" Wide x 75" High, Mobile X-Ray Barriers <small>(13 49 16 00-0017)</small><br>Note: Includes Framework  |           |        |
| 13 49 16 00-0021 | EA |  | 36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers .....  | 11,068.62 | 31.76  |
| 13 49 16 00-0022 | EA |  | 36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers .....  | 13,314.56 | 31.76  |
| 13 49 16 00-0023 |    |  | 72" Wide x 75" High, Mobile X-Ray Barriers <small>(13 49 16 00-0017)</small><br>Note: Includes Framework  |           |        |
| 13 49 16 00-0024 | EA |  | 36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers .....  | 13,089.97 | 31.76  |
| 13 49 16 00-0025 | EA |  | 36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers .....  | 16,571.18 | 31.76  |

**13 49 19 Lead-Lined Materials** (13 49)**13 49 19 16 Lead-Lined Drywall** (13 49 19)

|                  |    |  |   |       |      |
|------------------|----|--|---|-------|------|
| 13 49 19 16-0001 |    |  | Lead Lined Drywall <small>(13 49 19 16)</small> |       |      |
| 13 49 19 16-0002 | SF |  | 1/32" Lead Lined 5/8" Fire Rated Drywall .....  | 26.64 | 1.66 |
| 13 49 19 16-0003 | SF |  | 1/16" Lead Lined 5/8" Fire Rated Drywall .....  | 47.06 | 1.99 |
| 13 49 19 16-0004 | SF |  | 1/8" Lead Lined 5/8" Fire Rated Drywall .....   | 86.25 | 2.40 |



|                             |           |           |
|-----------------------------|-----------|-----------|
| <b>Special Construction</b> | <b>13</b> | <b>13</b> |
| Integrated Construction     | 13 40     |           |
| Radiation Protection        | 13 49     |           |

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| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

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**END OF SECTION 13**

|    |           |                             |
|----|-----------|-----------------------------|
| 13 | <b>13</b> | <b>Special Construction</b> |
|    | 13 40     | Integrated Construction     |
|    | 13 49     | Radiation Protection        |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

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| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 14 Conveying Equipment

### 14 01 Operation and Maintenance of Conveying Equipment <sup>(14)</sup>

#### 14 01 20 Operation and Maintenance of Elevators <sup>(14 01)</sup>

##### 14 01 20 71 Elevator Rehabilitation <sup>(14 01 20 71)</sup>

##### 14 01 20 71-0001 Elevator Maintenance <sup>(14 01 20 71)</sup>

|                  |    |  |          |  |
|------------------|----|--|----------|--|
| 14 01 20 71-0002 | EA | Regular Routine Elevator Inspection, Traction Up to 10 floors (Sufficient for Issue of Certificate/Permit) ..... | 582.77   |  |
| 14 01 20 71-0003 | EA | Regular Routine Elevator Inspection, Traction Over 10 floors (Sufficient for Issue of Certificate/Permit) .....  | 777.03   |  |
| 14 01 20 71-0004 | EA | Regular Routine Elevator Inspection, Hydraulic (Sufficient for Issue of Certificate/Permit) .....                | 485.64   |  |
| 14 01 20 71-0005 | EA | Regular Routine Elevator Inspection, Roped Hydraulic (Sufficient for Issue of Certificate/Permit) .....          | 485.64   |  |
| 14 01 20 71-0006 | EA | Regular Routine Elevator Inspection, Dumbwaiter/Cart Lifts (Sufficient for Issue of Certificate/Permit) .....    | 291.38   |  |
| 14 01 20 71-0007 | HR | Elevator Servicing - Hydraulic, Labor Only .....   | 191.34   |  |
| 14 01 20 71-0008 | HR | Elevator Servicing - Traction, Labor Only .....  | 239.17   |  |
| 14 01 20 71-0009 | EA | Annual Category 1 Test for Traction Up to 10 floors .....  | 1,389.31 |  |
| 14 01 20 71-0010 | EA | Annual Category 1 Test for Traction Over 10 floors .....   | 1,736.63 |  |
| 14 01 20 71-0011 | EA | Annual Category 1 Test for Hydraulic Elevator .....  | 694.65   |  |
| 14 01 20 71-0012 | EA | Annual Category 1 Test for Roped Hydraulic Elevator .....  | 1,562.96 |  |
| 14 01 20 71-0013 | EA | Annual Category 1 Test for Dumbwaiter/Cart Lifts .....   | 1,041.98 |  |
| 14 01 20 71-0014 | EA | Full Load Test for Traction Up to 10 floors .....  | 2,431.29 |  |
| 14 01 20 71-0015 | EA | Full Load Test for Traction Over 10 floors .....   | 2,778.61 |  |
| 14 01 20 71-0016 | EA | Full Load Test for Hydraulic Elevator .....  | 2,083.96 |  |
| 14 01 20 71-0017 | EA | Full Load Test for Roped Hydraulic Elevator .....  | 2,604.94 |  |
| 14 01 20 71-0018 | EA | Full Load Test for Dumbwaiter/Cart Lifts .....   | 1,389.31 |  |
| 14 01 20 71-0019 | EA | Acceptance Test for Traction Up to 10 floors .....   | 2,204.55 |  |
| 14 01 20 71-0020 | EA | Acceptance Test for Traction Over 10 floors .....  | 2,480.12 |  |
| 14 01 20 71-0021 | EA | Acceptance Test for Hydraulic Elevator .....   | 2,204.55 |  |
| 14 01 20 71-0022 | EA | Acceptance Test for Roped Hydraulic Elevator .....   | 2,204.55 |  |
| 14 01 20 71-0023 | EA | Acceptance Test for Dumbwaiter/Cart Lifts .....  | 2,204.55 |  |

##### 14 01 20 71-0024 Elevator Modernization <sup>(14 01 20 71)</sup>

|                  |     |   |           |           |
|------------------|-----|---|-----------|-----------|
| 14 01 20 71-0025 | EA  | 5" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM) .....                                  | 40,519.36 | 8,596.52  |
|                  |     | Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.                   |           |           |
|                  |     | <i>For Union-Guard Cathodic Protection, Add</i>   | 9,398.14  |           |
|                  |     | <i>Note: Includes Pump.</i>   |           |           |
|                  |     | <i>For An Additional Stop, Add</i>  | 10,045.97 |           |
|                  |     | <i>Note: Includes Removal.</i>  |           |           |
| 14 01 20 71-0026 | EA  | 6" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM) .....                                  | 43,742.28 | 10,387.45 |
|                  |     | Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.                   |           |           |
|                  |     | <i>For Union-Guard Cathodic Protection, Add</i>   | 9,491.49  |           |
|                  |     | <i>Note: Includes Pump.</i>   |           |           |
|                  |     | <i>For An Additional Stop, Add</i>  | 10,647.93 |           |
|                  |     | <i>Note: Includes Removal.</i>  |           |           |
| 14 01 20 71-0027 | EA  | 8" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM) .....                                  | 52,129.62 | 11,820.21 |
|                  |     | Note: Includes replacing existing piston/cylinder, 12 3/4" Sealed PVC, pit channel and buffers.                   |           |           |
|                  |     | <i>For Union-Guard Cathodic Protection, Add</i>   | 10,985.09 |           |
|                  |     | <i>Note: Includes Pump.</i>   |           |           |
|                  |     | <i>For An Additional Stop, Add</i>  | 13,576.01 |           |
|                  |     | <i>Note: Includes Removal.</i>  |           |           |
| 14 01 20 71-0028 | EA  | Removal And Replacement Of Hydraulic Control (Maxton) Valve .....   | 5,441.41  |           |
| 14 01 20 71-0029 | EA  | 5 Gallon Container Of Hydraulic Oil For Elevator Modernization .....  | 74.95     |           |
| 14 01 20 71-0030 | EA  | 55 Gallon Container Of Hydraulic Oil For Elevator Modernization .....   | 825.49    |           |
| 14 01 20 71-0031 | SET | Car Roller Guide Assembly, Set Of Four .....  | 4,272.66  | 716.38    |
|                  |     | Note: Includes cover plate.   |           |           |
| 14 01 20 71-0032 | SET | CWT Roller Guide Assembly, Set Of Four .....  | 3,607.26  | 716.38    |
|                  |     | Note: Includes cover plate.   |           |           |
| 14 01 20 71-0033 | EA  | 8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Baked Enamel Finish .....    | 7,836.99  |           |
|                  |     | Note: Excludes buildback.   |           |           |
| 14 01 20 71-0034 | EA  | 8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Satin Stainless Finish ..... | 8,583.79  |           |
|                  |     | Note: Excludes buildback.   |           |           |
| 14 01 20 71-0035 | EA  | 8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Baked Enamel Finish .....       | 8,316.81  |           |
|                  |     | Note: Excludes buildback.   |           |           |
| 14 01 20 71-0036 | EA  | 8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Satin Stainless Finish .....    | 9,063.61  |           |
|                  |     | Note: Excludes buildback.   |           |           |
| 14 01 20 71-0037 | SF  | Epoxy Aggregate, Elevator Cab Flooring .....  | 89.41     | 20.47     |
|                  |     | Note: SF cost not applicable for partial cab flooring.  |           |           |
| 14 01 20 71-0038 | SF  | Aluminum Diamond Plate, Elevator Cab Flooring .....   | 76.16     | 20.47     |
|                  |     | Note: SF cost not applicable for partial cab flooring.  |           |           |
| 14 01 20 71-0039 | SF  | 1/8" Thick, Vinyl Composition Tile (VCT), Elevator Cab Flooring .....   | 14.01     | 2.68      |
| 14 01 20 71-0040 | EA  | Solid State Starting (Soft Start) .....   | 6,279.34  | 537.28    |
| 14 01 20 71-0041 | EA  | Pump Unit (Tank, Valve, Oil, Motor And Victaulic Fittings) .....  | 20,232.77 | 2,999.82  |
| 14 01 20 71-0042 | EA  | Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Side Slide (GAL Manufacturing) .....       | 2,412.00  | 716.38    |
| 14 01 20 71-0043 | EA  | Hoistway Door Closer Set (Spring Closer), Single Speed Side Slide (GAL Manufacturing) .....                       | 455.31    | 179.09    |
| 14 01 20 71-0044 | EA  | Hoistway Door Closer Set (Spirator Closer), Single Speed Side Slide (GAL) .....                                   | 442.21    | 358.19    |
| 14 01 20 71-0045 | EA  | Hoistway Door Interlock Set, Single Speed Side Slide (GAL Manufacturing) .....                                    | 618.08    | 313.42    |
| 14 01 20 71-0046 | EA  | Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Center Opening (GAL Manufacturing) .....   | 2,913.52  | 716.38    |
| 14 01 20 71-0047 | EA  | Hoistway Door Closer Set (Spring Closer), Single Speed Center Opening (GAL Manufacturing) .....                   | 615.10    | 331.32    |

**14 Conveying Equipment**  
**14 01 Operation and Maintenance of Conveying Equipment**  
**14 01 20 Operation and Maintenance of Elevators**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 14 01 20 71-0048 EA Hoistway Door Closer Set (Spirator Closer), Single Speed Center Opening (GAL).....   | 442.21                    | 358.19                  |
| 14 01 20 71-0049 EA Hoistway Door Interlock Set, Single Speed Center Opening (GAL Manufacturing).....  | 759.59                    | 358.19                  |
| 14 01 20 71-0050 EA Fire Service Key Switch Controller .....   | 3,848.10                  | 716.38                  |
| 14 01 20 71-0051 EA ADA Telephone (Rath Microtech).....  | 1,217.80                  | 358.19                  |
| 14 01 20 71-0052 EA Car Door Operator With ADA Buzzer, Single Speed Side Slide (GAL Manufacturing).....  | 8,723.05                  | 1,432.75                |
| 14 01 20 71-0053 EA Car Door Operator With ADA Buzzer, Single Speed Center Opening (GAL Manufacturing).....  | 9,432.51                  | 1,432.75                |
| 14 01 20 71-0054 EA Car Door Safety Edge (Infrared Proximity Type Edge).....   | 2,706.89                  | 358.19                  |
| 14 01 20 71-0055 EA Car Operating Panel (ADA, Fire, Position, Chime).....  | 9,227.14                  | 1,432.75                |
| 14 01 20 71-0056 EA Car Position LED Indicator And Cover Plate, Stainless Steel.....   | 1,976.60                  | 358.19                  |
| 14 01 20 71-0057 EA Car Traveling Lanterns With Audible Signal .....   | 1,690.68                  | 358.19                  |
| 14 01 20 71-0058 EA Hoistway Door Jamb Floor Tags (Braille) .....  | 246.30                    | 179.09                  |
| 14 01 20 71-0059 EA Lobby Vandal Resistant Call Station.....   | 1,587.99                  | 358.19                  |
| 14 01 20 71-0060 LF Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial) .....   | 21.58                     |                         |
| Note: Excludes Removal and Replacement of Material. See CSI section 14 01 20 71-0061 for Removal and Replacement of Traveling Cable.   |                           |                         |
| 14 01 20 71-0061 EA Removal And Replacement Of Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....   | 5,731.01                  | 2,865.51                |
| Note: Excludes Traveling Cable material. See CSI section 14 01 20 71-0060 for Traveling Cable material.  |                           |                         |
| 14 01 20 71-0062 LF Governor Cable .....   | 1.68                      |                         |
| Note: Removal and Replacement of Governor Cable is part of Traveling Cable Removal and Replacement.  |                           |                         |
| 14 01 20 71-0063 EA Elevator Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Plastic Laminate - Hang On Panels.....  | 6,614.72                  | 716.38                  |
| 14 01 20 71-0064 EA Elevator Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Rigid Stainless Steel - Hang On Panels .....  | 9,601.92                  | 716.38                  |
| 14 01 20 71-0065 EA Removal And Replacement Of Governor.....   | 5,547.07                  | 716.38                  |
| 14 01 20 71-0066 EA Removal And Replacement Of Car Station.....  | 8,779.06                  | 1,432.75                |
| 14 01 20 71-0067 EA Removal And Replacement Of Telephone.....  | 1,830.71                  | 358.19                  |
| 14 01 20 71-0068 EA Removal And Replacement Of Hall Lanterns .....   | 1,369.83                  | 358.19                  |
| 14 01 20 71-0069 EA Hall Call Buttons, Vandal Resistant .....  | 1,089.78                  | 358.19                  |
| 14 01 20 71-0070 EA Hall Traveling Lanterns With Audible Signal.....   | 1,728.02                  | 358.19                  |
| 14 01 20 71-0071 EA Add Raised Character (Braille) Signage To Control Panel .....  | 200.93                    | 179.09                  |
| 14 01 20 71-0072 EA New Microprocessor Based Controller (Non-Proprietary).....   | 47,616.82                 | 5,731.01                |
| 14 01 20 71-0073 EA New Steel Shell And Canopy (Excludes Plastic Panels), For 5' x 7' Cab.....   | 27,266.52                 | 5,731.01                |
| 14 01 20 71-0074 EA New Steel Shell, Canopy And Platform (Excludes Plastic Laminate), For 5' x 7' Cab .....  | 42,332.53                 | 5,731.01                |
| 14 01 20 71-0075 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangement), Baked Enamel .....   | 3,381.35                  |                         |
| 14 01 20 71-0076 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangement), Baked Enamel .....   | 3,586.72                  |                         |
| 14 01 20 71-0077 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangement), Stainless Steel .....  | 3,812.63                  |                         |
| 14 01 20 71-0078 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangement), Stainless Steel.....   | 4,059.07                  |                         |
| 14 01 20 71-0079 EA Elevator Pit Ladder, Steel .....   | 3,175.98                  | 358.19                  |
| Note: Labor cost is for bolting to concrete pit wall.  |                           |                         |
| 14 01 20 71-0080 EA New Steel Shell, Canopy, Platform, Standard Cab Plastic Laminate, For 5' x 7' Cab.....   | 52,666.03                 | 5,731.01                |
| 14 01 20 71-0081 LF Removal And Replacement Of Hoisting Cable, 3/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 4.5, EHS Traction Steel - 5.5.....   | 131.52                    |                         |
| Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.   |                           |                         |
| 14 01 20 71-0082 LF Removal And Replacement Of Hoisting Cable, 1/2" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 6.0, EHS Traction Steel - 9.7.....   | 140.23                    |                         |
| Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.   |                           |                         |
| 14 01 20 71-0083 LF Removal And Replacement Of Hoisting Cable, 5/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 12.7, EHS Traction Steel - 15.4..... | 146.20                    |                         |
| Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.   |                           |                         |
| 14 01 20 71-0084 EA Hydraulic Leak Detector And Alarm in Elevator Pit (Stancor Oil Minder - 0.5 HP).....   | 9,669.41                  | 716.38                  |
| 14 01 20 71-0085 EA 6" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....   | 3,829.43                  | 716.38                  |
| Note: Cladding typically done by metal company.  |                           |                         |
| 14 01 20 71-0086 EA 8" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....   | 3,922.78                  | 716.38                  |
| Note: Cladding typically done by metal company.  |                           |                         |
| 14 01 20 71-0087 EA 10" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....  | 4,016.13                  | 716.38                  |
| Note: Cladding typically done by metal company.  |                           |                         |
| 14 01 20 71-0088 EA 12" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....  | 4,128.15                  | 716.38                  |
| Note: Cladding typically done by metal company.  |                           |                         |
| 14 01 20 71-0089 EA "Rope Gripper" With Pumping Unit For Use On 4-7/8" Maximum Out to Out Of Cable .....   | 8,683.63                  | 716.38                  |
| 14 01 20 71-0090 EA "Rope Gripper" With Pumping Unit For Use On 6" Maximum Out to Out Of Cable .....   | 8,683.63                  | 716.38                  |
| 14 01 20 71-0091 EA "Rope Gripper" With Pumping Unit For Use On 10" Maximum Out to Out Of Cable .....  | 12,417.63                 | 716.38                  |
| 14 01 20 71-0092 EA "Rope Gripper" With Pumping Unit For Use On 11-1/2" Maximum Out to Out Of Cable .....  | 14,284.63                 | 716.38                  |
| 14 01 20 71-0093 EA 60 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....   | 5,009.38                  | 181.95                  |
| 14 01 20 71-0094 EA 100 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....  | 5,233.75                  | 218.34                  |
| 14 01 20 71-0095 EA 200 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....  | 6,927.16                  | 254.74                  |
| 14 01 20 71-0096 EA Aluminum Handrail Spacers With Set Screw .....   | 217.87                    | 179.09                  |
| 14 01 20 71-0097 EA Bronze Handrail Spacers With Set Screw .....   | 223.04                    | 179.09                  |
| 14 01 20 71-0098 LF 1/2" x 2" Round Stainless Steel Elevator Handrail.....   | 152.43                    | 42.14                   |
| 14 01 20 71-0099 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish .....   | 146.34                    | 42.14                   |
| 14 01 20 71-0100 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish .....   | 174.79                    | 42.14                   |
| 14 01 20 71-0101 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish .....  | 194.06                    | 42.14                   |
| 14 01 20 71-0102 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish .....  | 222.74                    | 42.14                   |
| 14 01 20 71-0103 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish .....  | 178.38                    | 42.14                   |
| 14 01 20 71-0104 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish .....  | 203.69                    | 42.14                   |
| 14 01 20 71-0105 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish .....   | 319.86                    | 42.14                   |
| 14 01 20 71-0106 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish .....   | 360.04                    | 42.14                   |
| 14 01 20 71-0107 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....  | 145.37                    | 42.14                   |
| 14 01 20 71-0108 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish .....   | 146.92                    | 42.14                   |
| 14 01 20 71-0109 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....  | 188.98                    | 42.14                   |
| 14 01 20 71-0110 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....   | 176.58                    | 42.14                   |
| 14 01 20 71-0111 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....   | 189.80                    | 42.14                   |
| 14 01 20 71-0112 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....   | 239.11                    | 42.14                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 14 01 20 71-0113 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish ..... | 182.86                    | 42.14                   |
| 14 01 20 71-0114 LF 3/8" x 2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish .....     | 187.11                    | 42.14                   |
| 14 01 20 71-0115 LF 3/8" x 2-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish ..... | 316.83                    | 42.14                   |
| 14 01 20 71-0116 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Mirror Finish .....  | 206.16                    | 42.14                   |
| 14 01 20 71-0117 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish .....            | 317.66                    | 42.14                   |
| 14 01 20 71-0118 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish .....        | 360.04                    | 42.14                   |

**14 01 30 Operation and Maintenance of Escalators and Moving Walks <sup>(14)</sup>**

**14 01 30 71 Escalators and Moving Walks Rehabilitation <sup>(14 01 30)</sup>**

**14 01 30 71-0001 Maintenance <sup>(14 01 30 71)</sup>**

|                  |    |   |          |
|------------------|----|---|----------|
| 14 01 30 71-0002 | EA | Regular Escalator Inspection (Sufficient For Issue Of Certificate/Permit) ..... | 820.78   |
| 14 01 30 71-0003 | HR | Escalator Servicing, Labor Only .....   | 191.34   |
| 14 01 30 71-0004 | EA | Acceptance Test Of Escalators And Moving Walks .....                            | 4,514.29 |

**14 01 30 71-0005 Modernization <sup>(14 01 30 71)</sup>**

|                  |    |   |          |
|------------------|----|---|----------|
| 14 01 30 71-0006 | EA | Removal And Replacement Of 28" Wide Escalator Stair Tread ..... | 1,997.51 |
| 14 01 30 71-0007 | EA | Removal And Replacement Of 36" Wide Escalator Stair Tread ..... | 2,140.00 |
| 14 01 30 71-0008 | EA | Removal And Replacement Of 48" Wide Escalator Stair Tread ..... | 2,244.54 |
| 14 01 30 71-0009 | EA | Removal And Replacement Of 54" Wide Escalator Stair Tread ..... | 2,420.53 |
| 14 01 30 71-0010 | LF | Removal And Replacement Of Sliding Handrail .....               | 187.59   |

**14 20 Elevators <sup>(14)</sup>**

Note: Excludes final electrical work or shaft walls.

**14 21 Electric Traction Elevators <sup>(14 20)</sup>**

**14 21 13 Electric Traction Freight Elevators <sup>(14 21)</sup>**

**14 21 13 00-0001 Electric Traction Freight Elevators <sup>(14 21 13)</sup>**

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings with power doors.

|                  |    |   |            |
|------------------|----|---|------------|
| 14 21 13 00-0002 | EA | Electric Traction Freight Elevator, 4,000 LB x 200 FPM, 6 Stops, 6 Openings ..... | 368,262.18 |
|                  |    | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 304.36     |
|                  |    | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 760.90     |
|                  |    | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 913.08     |
|                  |    | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 4,252.40   |
|                  |    | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 6,378.60   |
|                  |    | <i>For Stainless Steel Cab Interior, Add</i>                                      | 8,504.80   |
|                  |    | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00 |
|                  |    | <i>For Class "C-1" Loading, Add</i>   | 1,771.12   |
|                  |    | <i>For Class "C-2" Loading, Add</i>   | 2,126.20   |
|                  |    | <i>For Class "C-3" Loading, Add</i>   | 2,908.64   |
|                  |    | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21   |
|                  |    | <i>For Each Additional Stop, Add</i>  | 37,408.94  |
|                  |    | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -30,894.13 |
|                  |    | <i>For Each Additional 50 FPM, Add</i>  | 6,378.60   |
|                  |    | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07  |
| 14 21 13 00-0003 | EA | Electric Traction Freight Elevator, 5,000 LB x 200 FPM, 6 Stops, 6 Openings ..... | 391,730.19 |
|                  |    | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 304.36     |
|                  |    | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 760.90     |
|                  |    | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 913.08     |
|                  |    | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 4,252.40   |
|                  |    | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 6,378.60   |
|                  |    | <i>For Stainless Steel Cab Interior, Add</i>                                      | 8,504.80   |
|                  |    | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00 |
|                  |    | <i>For Class "C-1" Loading, Add</i>   | 3,542.25   |
|                  |    | <i>For Class "C-2" Loading, Add</i>   | 4,252.40   |
|                  |    | <i>For Class "C-3" Loading, Add</i>   | 5,893.83   |
|                  |    | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21   |
|                  |    | <i>For Each Additional Stop, Add</i>  | 37,408.94  |
|                  |    | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -30,894.13 |
|                  |    | <i>For Each Additional 50 FPM, Add</i>  | 6,378.60   |
|                  |    | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07  |
| 14 21 13 00-0004 | EA | Electric Traction Freight Elevator, 6,000 LB x 200 FPM, 6 Stops, 6 Openings ..... | 416,606.72 |
|                  |    | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00 |
|                  |    | <i>For Class "C-1" Loading, Add</i>   | 3,542.25   |
|                  |    | <i>For Class "C-2" Loading, Add</i>   | 4,252.40   |
|                  |    | <i>For Class "C-3" Loading, Add</i>   | 5,893.83   |
|                  |    | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 5,315.50   |
|                  |    | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 7,441.70   |
|                  |    | <i>For Stainless Steel Cab Interior, Add</i>                                      | 9,567.90   |
|                  |    | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21   |
|                  |    | <i>For Each Additional Stop, Add</i>  | 38,472.04  |
|                  |    | <i>For Each Additional 50 FPM, Add</i>  | 6,378.60   |
|                  |    | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 318.93     |
|                  |    | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 637.86     |
|                  |    | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 797.32     |
|                  |    | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07  |
|                  |    | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -31,894.13 |



**14 Conveying Equipment**

**14 20 Elevators**

**14 21 Electric Traction Elevators**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 14 21 | 13 00-0005 | EA  | Electric Traction Freight Elevator, 7,000 LB x 200 FPM, 6 Stops, 6 Openings.....  | 426,980.96             |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00             |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>   | 3,542.25               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>   | 4,252.40               |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>   | 5,893.83               |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 5,315.50               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 7,441.70               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                      | 9,567.90               |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21               |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>  | 38,472.04              |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>  | 6,378.60               |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 318.93                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 637.86                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 797.32                 |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07              |                      |
|       |            |     | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -31,894.13             |                      |
| 14 21 | 13 00-0006 | EA  | Electric Traction Freight Elevator, 8,000 LB x 200 FPM, 6 Stops, 6 Openings.....  | 440,170.64             |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00             |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>  | 15,218.00              |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>   | 7,086.62               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>   | 8,504.80               |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>   | 11,634.57              |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21               |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>  | 38,472.04              |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 425.24                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 744.17                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 903.64                 |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 6,378.60               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 8,504.80               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                      | 10,631.00              |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07              |                      |
|       |            |     | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -31,894.13             |                      |
| 14 21 | 13 00-0007 | EA  | Electric Traction Freight Elevator, 10,000 LB x 200 FPM, 6 Stops, 6 Openings..... | 455,476.42             |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00             |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>  | 15,218.00              |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>   | 7,086.62               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>   | 8,504.80               |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>   | 11,634.57              |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21               |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>  | 38,472.04              |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 425.24                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 744.17                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 903.64                 |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 6,378.60               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 8,504.80               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                      | 10,631.00              |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07              |                      |
|       |            |     | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -31,894.13             |                      |
| 14 21 | 13 00-0008 | EA  | Electric Traction Freight Elevator, 12,000 LB x 200 FPM, 6 Stops, 6 Openings..... | 468,230.16             |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                      | -10,000.00             |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>  | 15,218.00              |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>   | 7,086.62               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>   | 8,504.80               |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>   | 11,634.57              |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>  | 9,010.21               |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>  | 38,472.04              |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                           | 425.24                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                           | 744.17                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                                 | 903.64                 |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                            | 6,378.60               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>    | 8,504.80               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                      | 10,631.00              |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                      | 45,051.07              |                      |
|       |            |     | <i>For Each Floor &lt; 6 Stops, Deduct</i>  | -31,894.13             |                      |

**14 21 23 Electric Traction Passenger Elevators (14 21)**

**14 21 23 13 Machine Room Electric Traction Passenger Elevators (14 21 23)**

**14 21 23 13-0001 Electric Traction Passenger Elevators (14 21 23 13)**

Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings.

|       |            |    |  |            |  |
|-------|------------|----|--|------------|--|
| 14 21 | 23 13-0002 | EA | Electric Traction Passenger Elevator, 2,000 LB x 200 FPM, 6 Stops, 6 Openings..... | 282,853.87 |  |
|       |            |    | <i>For Each Opening With Bonderized Steel Door, Add</i>                            | 304.36     |  |
|       |            |    | <i>For Each Opening With Stainless Steel Doors, Add</i>                            | 760.90     |  |
|       |            |    | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                             | 4,252.40   |  |
|       |            |    | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>     | 6,378.60   |  |
|       |            |    | <i>For Stainless Steel Cab Interior, Add</i>                                       | 8,504.80   |  |
|       |            |    | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42   |  |
|       |            |    | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11   |  |
|       |            |    | <i>For Each Additional Stop, Add</i>   | 37,408.94  |  |
|       |            |    | <i>For Each Floor &lt; 6 Stops, Deduct</i>   | -21,262.75 |  |
|       |            |    | <i>For Removal Of Existing Elevator, Add</i>                                       | 33,788.31  |  |



|  |  |                                    |              |
|--|--|------------------------------------|--------------|
|  |  | <b>Conveying Equipment</b>         | <b>14</b>    |
|  |  | <b>Elevators</b>                   | <b>14 20</b> |
|  |  | <b>Electric Traction Elevators</b> | <b>14 21</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 14 21 23 13-0003 EA Electric Traction Passenger Elevator, 2,500 LB x 200 FPM, 6 Stops, 6 Openings..... | 290,267.33                |                         |
| For Each Opening With Bonderized Steel Door, Add   | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add   | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add  | 4,252.40                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                                | 6,378.60                  |                         |
| For Stainless Steel Cab Interior, Add  | 8,504.80                  |                         |
| For Each Additional 50 FPM, Add  | 6,277.42                  |                         |
| For Removal Of Existing Stop, Add  | 4,505.11                  |                         |
| For Each Additional Stop, Add  | 37,408.94                 |                         |
| For Each Floor < 6 Stops, Deduct   | -21,262.75                |                         |
| For Removal Of Existing Elevator, Add  | 33,788.31                 |                         |
| 14 21 23 13-0004 EA Electric Traction Passenger Elevator, 3,000 LB x 200 FPM, 6 Stops, 6 Openings..... | 296,063.04                |                         |
| For Each Opening With Bonderized Steel Door, Add   | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add   | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add  | 4,252.40                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                                | 6,378.60                  |                         |
| For Stainless Steel Cab Interior, Add  | 8,504.80                  |                         |
| For Each Additional 50 FPM, Add  | 6,277.42                  |                         |
| For Removal Of Existing Stop, Add  | 4,505.11                  |                         |
| For Each Additional Stop, Add  | 37,408.94                 |                         |
| For Each Floor < 6 Stops, Deduct   | -21,262.75                |                         |
| For Removal Of Existing Elevator, Add  | 33,788.31                 |                         |
| 14 21 23 13-0005 EA Electric Traction Passenger Elevator, 3,500 LB x 200 FPM, 6 Stops, 6 Openings..... | 300,407.47                |                         |
| For Each Opening With Bonderized Steel Door, Add   | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add   | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add  | 4,252.40                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                                | 6,378.60                  |                         |
| For Stainless Steel Cab Interior, Add  | 8,504.80                  |                         |
| For Each Additional 50 FPM, Add  | 6,277.42                  |                         |
| For Removal Of Existing Stop, Add  | 4,505.11                  |                         |
| For Each Additional Stop, Add  | 37,408.94                 |                         |
| For Each Floor < 6 Stops, Deduct   | -21,262.75                |                         |
| For Removal Of Existing Elevator, Add  | 33,788.31                 |                         |
| 14 21 23 13-0006 EA Electric Traction Passenger Elevator, 4,000 LB x 200 FPM, 6 Stops, 6 Openings..... | 305,775.22                |                         |
| For Each Opening With Bonderized Steel Door, Add   | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add   | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add  | 4,252.40                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                                | 6,378.60                  |                         |
| For Stainless Steel Cab Interior, Add  | 8,504.80                  |                         |
| For Each Additional 50 FPM, Add  | 6,277.42                  |                         |
| For Removal Of Existing Stop, Add  | 4,505.11                  |                         |
| For Each Additional Stop, Add  | 37,408.94                 |                         |
| For Each Floor < 6 Stops, Deduct   | -21,262.75                |                         |
| For Removal Of Existing Elevator, Add  | 33,788.31                 |                         |
| 14 21 23 13-0007 EA Electric Traction Passenger Elevator, 4,500 LB x 200 FPM, 6 Stops, 6 Openings..... | 311,433.61                |                         |
| For Each Opening With Bonderized Steel Door, Add   | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add   | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add  | 4,252.40                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                                | 6,378.60                  |                         |
| For Stainless Steel Cab Interior, Add  | 8,504.80                  |                         |
| For Each Additional 50 FPM, Add  | 6,277.42                  |                         |
| For Removal Of Existing Stop, Add  | 4,505.11                  |                         |
| For Each Additional Stop, Add  | 37,408.94                 |                         |
| For Each Floor < 6 Stops, Deduct   | -21,262.75                |                         |
| For Removal Of Existing Elevator, Add  | 33,788.31                 |                         |
| 14 21 23 13-0008 EA Electric Traction Passenger Elevator, 5,000 LB x 200 FPM, 6 Stops, 6 Openings..... | 317,252.33                |                         |
| For Each Opening With Bonderized Steel Door, Add   | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add   | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add  | 4,252.40                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                                | 6,378.60                  |                         |
| For Stainless Steel Cab Interior, Add  | 8,504.80                  |                         |
| For Each Additional 50 FPM, Add  | 6,277.42                  |                         |
| For Removal Of Existing Stop, Add  | 4,505.11                  |                         |
| For Each Additional Stop, Add  | 37,408.94                 |                         |
| For Each Floor < 6 Stops, Deduct   | -21,262.75                |                         |
| For Removal Of Existing Elevator, Add  | 33,788.31                 |                         |

**14 24 Hydraulic Elevators** (14 20)

Note: Prices are for a complete operating elevator including all standard controls, hydraulic motor and devices based on unit with cab sized 5' by 8' with galvanized primed shaft door with cab allowances as listed below.

**14 24 13 Hydraulic Freight Elevators** (14 24)

**14 24 13 00-0001 Hydraulic Freight Elevators** (14 24 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings with power doors.

**14 Conveying Equipment**

**14 20 Elevators**

**14 24 Hydraulic Elevators**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 14 24 | 13 00-0002 | EA  | Hydraulic Freight Elevator, 3,000 LB x 50 FPM, 3 Stops, 3 Openings..... | 225,420.16             |                      |
|       |            |     | For Each Additional Stop, Add   | 28,062.86              |                      |
|       |            |     | For 2 Stops, Deduct   | -15,941.96             |                      |
|       |            |     | For Each Opening With Bonderized Steel Door, Add                        | 304.36                 |                      |
|       |            |     | For Each Opening With Stainless Steel Doors, Add                        | 760.90                 |                      |
|       |            |     | For Each Opening With Two Speed Doors, Add                              | 913.08                 |                      |
|       |            |     | For Custom Plastic Laminated Cab Interiors, Add                         | 4,252.40               |                      |
|       |            |     | For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add | 6,378.60               |                      |
|       |            |     | For Stainless Steel Cab Interior, Add                                   | 8,504.80               |                      |
|       |            |     | For Each Additional 50 FPM, Add   | 3,043.60               |                      |
|       |            |     | For Elevator With Manual Door, Deduct                                   | -10,000.00             |                      |
|       |            |     | For Class "C-1" Loading, Add  | 1,771.12               |                      |
|       |            |     | For Class "C-2" Loading, Add  | 2,126.20               |                      |
|       |            |     | For Class "C-3" Loading, Add  | 2,908.64               |                      |
|       |            |     | For Well Hole Drilling (12" Diameter Hole), Add Per VLF                 | 319.66                 |                      |
|       |            |     | Note: Includes Labor and Equipment.                                     |                        |                      |
|       |            |     | For 12" PVC Liner, Add Per LF   | 61.23                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For 12" Steel Liner, Add Per LF   | 95.68                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For Removal Of Existing Stop, Add                                       | 9,010.21               |                      |
|       |            |     | For Removal Of Existing Elevator, Add                                   | 22,525.54              |                      |
| 14 24 | 13 00-0003 | EA  | Hydraulic Freight Elevator, 3,500 LB x 50 FPM, 3 Stops, 3 Openings..... | 232,755.61             |                      |
|       |            |     | For Each Additional Stop, Add   | 28,062.86              |                      |
|       |            |     | For 2 Stops, Deduct   | -15,941.96             |                      |
|       |            |     | For Each Opening With Bonderized Steel Door, Add                        | 304.36                 |                      |
|       |            |     | For Each Opening With Stainless Steel Doors, Add                        | 760.90                 |                      |
|       |            |     | For Each Opening With Two Speed Doors, Add                              | 913.08                 |                      |
|       |            |     | For Custom Plastic Laminated Cab Interiors, Add                         | 4,252.40               |                      |
|       |            |     | For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add | 6,378.60               |                      |
|       |            |     | For Stainless Steel Cab Interior, Add                                   | 8,504.80               |                      |
|       |            |     | For Each Additional 50 FPM, Add   | 3,043.60               |                      |
|       |            |     | For Elevator With Manual Door, Deduct                                   | -10,000.00             |                      |
|       |            |     | For Class "C-1" Loading, Add  | 1,771.12               |                      |
|       |            |     | For Class "C-2" Loading, Add  | 2,126.20               |                      |
|       |            |     | For Class "C-3" Loading, Add  | 2,908.64               |                      |
|       |            |     | For Well Hole Drilling (12" Diameter Hole), Add Per VLF                 | 319.66                 |                      |
|       |            |     | Note: Includes Labor and Equipment.                                     |                        |                      |
|       |            |     | For 12" PVC Liner, Add Per LF   | 61.23                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For 12" Steel Liner, Add Per LF   | 95.68                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For Removal Of Existing Stop, Add                                       | 9,010.21               |                      |
|       |            |     | For Removal Of Existing Elevator, Add                                   | 22,525.54              |                      |
| 14 24 | 13 00-0004 | EA  | Hydraulic Freight Elevator, 4,000 LB x 50 FPM, 3 Stops, 3 Openings..... | 239,915.82             |                      |
|       |            |     | For Each Additional Stop, Add   | 28,062.86              |                      |
|       |            |     | For 2 Stops, Deduct   | -15,941.96             |                      |
|       |            |     | For Each Opening With Bonderized Steel Door, Add                        | 304.36                 |                      |
|       |            |     | For Each Opening With Stainless Steel Doors, Add                        | 760.90                 |                      |
|       |            |     | For Each Opening With Two Speed Doors, Add                              | 913.08                 |                      |
|       |            |     | For Custom Plastic Laminated Cab Interiors, Add                         | 4,252.40               |                      |
|       |            |     | For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add | 6,378.60               |                      |
|       |            |     | For Stainless Steel Cab Interior, Add                                   | 8,504.80               |                      |
|       |            |     | For Each Additional 50 FPM, Add   | 3,043.60               |                      |
|       |            |     | For Elevator With Manual Door, Deduct                                   | -10,000.00             |                      |
|       |            |     | For Class "C-1" Loading, Add  | 1,771.12               |                      |
|       |            |     | For Class "C-2" Loading, Add  | 2,126.20               |                      |
|       |            |     | For Class "C-3" Loading, Add  | 2,908.64               |                      |
|       |            |     | For Well Hole Drilling (12" Diameter Hole), Add Per VLF                 | 319.66                 |                      |
|       |            |     | Note: Includes Labor and Equipment.                                     |                        |                      |
|       |            |     | For 12" PVC Liner, Add Per LF   | 61.23                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For 12" Steel Liner, Add Per LF   | 95.68                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For Removal Of Existing Stop, Add                                       | 9,010.21               |                      |
|       |            |     | For Removal Of Existing Elevator, Add                                   | 22,525.54              |                      |
| 14 24 | 13 00-0005 | EA  | Hydraulic Freight Elevator, 5,000 LB x 50 FPM, 3 Stops, 3 Openings..... | 246,847.61             |                      |
|       |            |     | For Each Opening With Bonderized Steel Door, Add                        | 304.36                 |                      |
|       |            |     | For Each Opening With Stainless Steel Doors, Add                        | 760.90                 |                      |
|       |            |     | For Each Opening With Two Speed Doors, Add                              | 913.08                 |                      |
|       |            |     | For Custom Plastic Laminated Cab Interiors, Add                         | 4,252.40               |                      |
|       |            |     | For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add | 6,378.60               |                      |
|       |            |     | For Stainless Steel Cab Interior, Add                                   | 8,504.80               |                      |
|       |            |     | For Each Additional 50 FPM, Add   | 3,043.60               |                      |
|       |            |     | For Elevator With Manual Door, Deduct                                   | -10,000.00             |                      |
|       |            |     | For Each Additional Stop, Add   | 29,584.66              |                      |
|       |            |     | For 2 Stops, Deduct   | -16,941.96             |                      |
|       |            |     | For Class "C-1" Loading, Add  | 3,542.25               |                      |
|       |            |     | For Class "C-2" Loading, Add  | 4,252.40               |                      |
|       |            |     | For Class "C-3" Loading, Add  | 5,893.83               |                      |
|       |            |     | For Well Hole Drilling (12" Diameter Hole), Add Per VLF                 | 319.66                 |                      |
|       |            |     | Note: Includes Labor and Equipment.                                     |                        |                      |
|       |            |     | For 12" PVC Liner, Add Per LF   | 61.23                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For 12" Steel Liner, Add Per LF   | 95.68                  |                      |
|       |            |     | Note: Liner for Hydraulic Elevator Well Hole if necessary.              |                        |                      |
|       |            |     | For Removal Of Existing Stop, Add                                       | 9,010.21               |                      |
|       |            |     | For Removal Of Existing Elevator, Add                                   | 22,525.54              |                      |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 14 24 | 13 00-0006 | EA  | Hydraulic Freight Elevator, 6,000 LB x 50 FPM, 3 Stops, 3 Openings.....        | 261,274.57             |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                        | 304.36                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                        | 760.90                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                              | 913.08                 |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                   | -10,000.00             |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|       |            |     | <i>For 2 Stops, Deduct</i>   | -16,941.96             |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>  | 3,542.25               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>  | 4,252.40               |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>  | 5,893.83               |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>   | 15,218.00              |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                         | 5,315.50               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i> | 7,441.70               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                   | 9,567.90               |                      |
|       |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>                 | 319.66                 |                      |
|       |            |     | <i>Note: Includes Labor and Equipment.</i>                                     |                        |                      |
|       |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>                                       | 9,010.21               |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                   | 22,525.54              |                      |
| 14 24 | 13 00-0007 | EA  | Hydraulic Freight Elevator, 7,000 LB x 50 FPM, 3 Stops, 3 Openings.....        | 268,183.63             |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                        | 304.36                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                        | 760.90                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                              | 913.08                 |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                   | -10,000.00             |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|       |            |     | <i>For 2 Stops, Deduct</i>   | -16,941.96             |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>  | 3,542.25               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>  | 4,252.40               |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>  | 5,893.83               |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>   | 15,218.00              |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                         | 5,315.50               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i> | 7,441.70               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                   | 9,567.90               |                      |
|       |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>                 | 319.66                 |                      |
|       |            |     | <i>Note: Includes Labor and Equipment.</i>                                     |                        |                      |
|       |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>                                       | 9,010.21               |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                   | 33,788.31              |                      |
| 14 24 | 13 00-0008 | EA  | Hydraulic Freight Elevator, 8,000 LB x 50 FPM, 3 Stops, 3 Openings.....        | 278,745.12             |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                        | 304.36                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                        | 760.90                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                              | 913.08                 |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                   | -10,000.00             |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|       |            |     | <i>For 2 Stops, Deduct</i>   | -16,941.96             |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                         | 5,315.50               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i> | 7,441.70               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                   | 9,567.90               |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>   | 16,739.80              |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>  | 8,855.62               |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>  | 10,631.00              |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>  | 14,543.21              |                      |
|       |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>                 | 319.66                 |                      |
|       |            |     | <i>Note: Includes Labor and Equipment.</i>                                     |                        |                      |
|       |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>                                       | 9,010.21               |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                   | 33,788.31              |                      |
| 14 24 | 13 00-0009 | EA  | Hydraulic Freight Elevator, 10,000 LB x 50 FPM, 3 Stops, 3 Openings.....       | 286,168.01             |                      |
|       |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>                        | 304.36                 |                      |
|       |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>                        | 760.90                 |                      |
|       |            |     | <i>For Each Opening With Two Speed Doors, Add</i>                              | 913.08                 |                      |
|       |            |     | <i>For Elevator With Manual Door, Deduct</i>                                   | -10,000.00             |                      |
|       |            |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|       |            |     | <i>For 2 Stops, Deduct</i>   | -16,941.96             |                      |
|       |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>                         | 5,315.50               |                      |
|       |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i> | 7,441.70               |                      |
|       |            |     | <i>For Stainless Steel Cab Interior, Add</i>                                   | 9,567.90               |                      |
|       |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>                 | 319.66                 |                      |
|       |            |     | <i>Note: Includes Labor and Equipment.</i>                                     |                        |                      |
|       |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|       |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>              |                        |                      |
|       |            |     | <i>For Removal Of Existing Stop, Add</i>                                       | 9,010.21               |                      |
|       |            |     | <i>For Removal Of Existing Elevator, Add</i>                                   | 33,788.31              |                      |
|       |            |     | <i>For Each Additional 50 FPM, Add</i>   | 18,261.60              |                      |
|       |            |     | <i>For Class "C-1" Loading, Add</i>  | 11,778.08              |                      |
|       |            |     | <i>For Class "C-2" Loading, Add</i>  | 14,139.23              |                      |
|       |            |     | <i>For Class "C-3" Loading, Add</i>  | 19,342.04              |                      |

**14 Conveying Equipment**

**14 20 Elevators**

**14 24 Hydraulic Elevators**



| MINOR            | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|------------|-----|--|------------------------|----------------------|
| 14 24            | 13 00-0010 | EA  | Hydraulic Freight Elevator, 12,000 LB x 50 FPM, 3 Stops, 3 Openings.....   | 299,202.37             |                      |
|                  |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |            |     | <i>For Each Opening With Two Speed Doors, Add</i>  | 913.08                 |                      |
|                  |            |     | <i>For Elevator With Manual Door, Deduct</i>   | -10,000.00             |                      |
|                  |            |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|                  |            |     | <i>For 2 Stops, Deduct</i>   | -16,941.96             |                      |
|                  |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 5,315.50               |                      |
|                  |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 7,441.70               |                      |
|                  |            |     | <i>For Stainless Steel Cab Interior, Add</i>   | 9,567.90               |                      |
|                  |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |            |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For Removal Of Existing Stop, Add</i>   | 9,010.21               |                      |
|                  |            |     | <i>For Removal Of Existing Elevator, Add</i>   | 33,788.31              |                      |
|                  |            |     | <i>For Each Additional 50 FPM, Add</i>   | 18,261.60              |                      |
|                  |            |     | <i>For Class "C-1" Loading, Add</i>  | 11,778.08              |                      |
|                  |            |     | <i>For Class "C-2" Loading, Add</i>  | 14,139.23              |                      |
|                  |            |     | <i>For Class "C-3" Loading, Add</i>  | 19,342.04              |                      |
| 14 24            | 13 00-0011 |     | <b>Hydraulic Elevators Piston Drilling</b> <sup>(14 24 13)</sup>   |                        |                      |
| 14 24            | 13 00-0012 | VLF | Up To 6" Diameter Piston Drilling .....  | 98.93                  |                      |
|                  |            |     | <i>Note: Includes casing.</i>  |                        |                      |
| 14 24            | 13 00-0013 | VLF | 8" To 10" Diameter Piston Drilling.....  | 118.06                 |                      |
|                  |            |     | <i>Note: Includes casing.</i>  |                        |                      |
| 14 24 23         |            |     | <b>Hydraulic Passenger Elevators</b> <sup>(14 24)</sup>  |                        |                      |
| 14 24 23 00-0001 |            |     | <b>Hydraulic Passenger Elevators</b> <sup>(14 24 23)</sup>   |                        |                      |
|                  |            |     | <i>Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings.</i> |                        |                      |
| 14 24 23 00-0002 | EA         |     | Hydraulic Passenger Elevator, 2,100 LB x 100 FPM, 3 Stops, 3 Openings.....   | 160,707.90             |                      |
|                  |            |     | <i>For Each Additional Stop, Add</i>   | 28,062.86              |                      |
|                  |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |            |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |            |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |            |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |            |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |            |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |
| 14 24 23 00-0003 | EA         |     | Hydraulic Passenger Elevator, 2,500 LB x 100 FPM, 3 Stops, 3 Openings.....   | 163,751.50             |                      |
|                  |            |     | <i>For Each Additional Stop, Add</i>   | 28,062.86              |                      |
|                  |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |            |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |            |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |            |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |            |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |            |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |
| 14 24 23 00-0004 | EA         |     | Hydraulic Passenger Elevator, 3,000 LB x 100 FPM, 3 Stops, 3 Openings.....   | 165,843.98             |                      |
|                  |            |     | <i>For Each Additional Stop, Add</i>   | 28,062.86              |                      |
|                  |            |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |            |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |            |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |            |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |            |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |            |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |            |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |            |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |            |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |            |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |            |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |            |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |            |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 14 24 23 00-0005 | EA  |     | Hydraulic Passenger Elevator, 3,500 LB x 100 FPM, 3 Stops, 3 Openings.....   | 173,613.06             |                      |
|                  |     |     | <i>For Each Additional Stop, Add</i>   | 28,062.86              |                      |
|                  |     |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |     |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |     |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |     |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |     |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |     |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |     |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |     |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |     |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |     |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |     |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |
| 14 24 23 00-0006 | EA  |     | Hydraulic Passenger Elevator, 4,000 LB x 100 FPM, 3 Stops, 3 Openings.....   | 176,816.59             |                      |
|                  |     |     | <i>For Each Additional Stop, Add</i>   | 28,062.86              |                      |
|                  |     |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |     |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |     |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |     |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |     |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |     |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |     |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |     |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |     |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |     |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |     |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |
| 14 24 23 00-0007 | EA  |     | Hydraulic Passenger Elevator, 4,500 LB x 100 FPM, 3 Stops, 3 Openings.....   | 181,267.86             |                      |
|                  |     |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |     |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |     |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |     |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |     |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |     |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|                  |     |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |     |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |     |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |     |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |     |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |     |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |
| 14 24 23 00-0008 | EA  |     | Hydraulic Passenger Elevator, 5,000 LB x 100 FPM, 3 Stops, 3 Openings.....   | 185,559.56             |                      |
|                  |     |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |     |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |     |     | <i>For Each Opening With Two Speed Doors, Add</i>  | 913.08                 |                      |
|                  |     |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 4,252.40               |                      |
|                  |     |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 6,378.60               |                      |
|                  |     |     | <i>For Stainless Steel Cab Interior, Add</i>   | 8,504.80               |                      |
|                  |     |     | <i>For Each Additional Stop, Add</i>   | 29,584.66              |                      |
|                  |     |     | <i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>   | 319.66                 |                      |
|                  |     |     | <i>Note: Includes Labor and Equipment.</i>   |                        |                      |
|                  |     |     | <i>For 12" PVC Liner, Add Per LF</i>   | 61.23                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For 12" Steel Liner, Add Per LF</i>   | 95.68                  |                      |
|                  |     |     | <i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>  |                        |                      |
|                  |     |     | <i>For Each Additional 50 FPM, Add</i>   | 6,277.42               |                      |
|                  |     |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |     |     | <i>For Removal Of Existing Stop, Add</i>   | 4,505.11               |                      |
|                  |     |     | <i>For 2 Stops, Deduct</i>   | -10,000.00             |                      |
| 14 24 23 00-0009 |     |     | <b>Twin Holeless Hydraulic Passenger Elevator</b> <small>(14 24 23)</small>  |                        |                      |
|                  |     |     | <i>Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 2 stops (10 feet floor to floor) and 2 openings.</i> |                        |                      |
| 14 24 23 00-0010 | EA  |     | Twin Holeless Hydraulic Passenger Elevator, 2,100 LB x 100 FPM.....  | 139,249.07             |                      |
|                  |     |     | <i>For Each Opening With Bonderized Steel Door, Add</i>  | 304.36                 |                      |
|                  |     |     | <i>For Each Opening With Stainless Steel Doors, Add</i>  | 760.90                 |                      |
|                  |     |     | <i>For Custom Plastic Laminated Cab Interiors, Add</i>   | 3,720.85               |                      |
|                  |     |     | <i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>   | 5,315.50               |                      |
|                  |     |     | <i>For Stainless Steel Cab Interior, Add</i>   | 6,378.60               |                      |
|                  |     |     | <i>For Removal Of Existing Elevator, Add</i>   | 22,525.54              |                      |
|                  |     |     | <i>For Each Additional Stop, Add</i>   | 29,752.28              |                      |
|                  |     |     | <i>For An Additional 25 FPM, Add</i>   | 2,564.23               |                      |

**14 Conveying Equipment****14 20 Elevators****14 24 Hydraulic Elevators**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 14 24 23 00-0011 EA Twin Holeless Hydraulic Passenger Elevator, 2,500 LB x 100 FPM..... | 144,523.13                |                         |
| For Each Opening With Bonderized Steel Door, Add  | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add  | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add   | 3,720.85                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                 | 5,315.50                  |                         |
| For Stainless Steel Cab Interior, Add   | 6,378.60                  |                         |
| For Removal Of Existing Elevator, Add   | 22,525.54                 |                         |
| For Each Additional Stop, Add   | 29,752.28                 |                         |
| For An Additional 25 FPM, Add   | 2,564.23                  |                         |
| 14 24 23 00-0012 EA Twin Holeless Hydraulic Passenger Elevator, 3,000 LB x 100 FPM..... | 149,586.26                |                         |
| For Each Opening With Bonderized Steel Door, Add  | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add  | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add   | 3,720.85                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                 | 5,315.50                  |                         |
| For Stainless Steel Cab Interior, Add   | 6,378.60                  |                         |
| For Removal Of Existing Elevator, Add   | 22,525.54                 |                         |
| For Each Additional Stop, Add   | 29,752.28                 |                         |
| For An Additional 25 FPM, Add   | 2,564.23                  |                         |
| 14 24 23 00-0013 EA Twin Holeless Hydraulic Passenger Elevator, 3,500 LB x 100 FPM..... | 174,160.65                |                         |
| For Each Opening With Bonderized Steel Door, Add  | 304.36                    |                         |
| For Each Opening With Stainless Steel Doors, Add  | 760.90                    |                         |
| For Custom Plastic Laminated Cab Interiors, Add   | 3,720.85                  |                         |
| For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add                 | 5,315.50                  |                         |
| For Stainless Steel Cab Interior, Add   | 6,378.60                  |                         |
| For Removal Of Existing Elevator, Add   | 22,525.54                 |                         |
| For Each Additional Stop, Add   | 29,752.28                 |                         |
| For An Additional 25 FPM, Add   | 2,564.23                  |                         |

**14 26 Limited-Use/Limited-Application Elevators** <sup>(14 20)</sup>**14 26 00 00-0001 Small Elevators (LULA)** <sup>(14 26)</sup>

|  |           |  |
|--|-----------|--|
| 14 26 00 00-0002 EA Small Elevators (LULA), 1,400 LB x 30 FPM, 2 Stops, 2 Openings.....                              | 92,938.80 |  |
| Note: 3 phase, automatic operation, includes cab interior, telephone box and telephone. 2 stops and 12 feet of rise. |           |  |
| For Each Additional Stop, Add  | 18,451.76 |  |
| For Removal Of Existing Elevator, Add  | 6,757.66  |  |

**14 27 Custom Elevator Cabs and Doors** <sup>(14 20)</sup>**14 27 13 Custom Elevator Cab Finishes** <sup>(14 27)</sup>**14 27 13 00-0001 Custom Elevator Cab Finish Options** <sup>(14 27 13)</sup>

|   |          |  |
|---|----------|--|
| 14 27 13 00-0002 EA Intercom Service.....                         | 1,451.98 |  |
| Note: Review elevator task modifiers for additional cab finishes. |          |  |

**14 27 13 00-0003 Custom Elevator Hall Finish Options** <sup>(14 27 13)</sup>

|  |          |  |
|--|----------|--|
| 14 27 13 00-0004 EA Stainless Steel Door, Hall Finishes.....   | 1,846.85 |  |
| 14 27 13 00-0005 EA Stainless Steel Frames, Hall Finishes..... | 1,940.76 |  |
| 14 27 13 00-0006 EA Hall Lantern, Signal Devices.....          | 957.70   |  |

**14 27 16 Custom Elevator Doors** <sup>(14 27)</sup>**14 27 16 00-0001 Custom Elevator Door Options** <sup>(14 27 16)</sup>

|  |           |  |
|--|-----------|--|
| 14 27 16 00-0002 EA Center Opening, 1 Speed Doors.....       | 3,724.38  |  |
| 14 27 16 00-0003 EA Center Opening, 2 Speed Doors.....       | 4,788.66  |  |
| 14 27 16 00-0004 EA Rear Opening Doors (Opposite Front)..... | 6,698.11  |  |
| 14 27 16 00-0005 EA Side Opening, 2 Speed Doors.....         | 10,673.53 |  |
| 14 27 16 00-0006 EA Bi-Parting Doors.....                    | 11,238.52 |  |
| 14 27 16 00-0007 EA Power Operated Door And Gate.....        | 34,965.82 |  |

**14 28 Elevator Equipment and Controls** <sup>(14 20)</sup>**14 28 16 Elevator Controls** <sup>(14 28)</sup>**14 28 16 00-0001 Passenger Or Freight Elevator Options** <sup>(14 28 16)</sup>

|   |           |          |
|---|-----------|----------|
| 14 28 16 00-0002 EA 2 Car Group, Elevator Automatic Controls.....             | 9,072.55  | 1,086.20 |
| 14 28 16 00-0003 EA 3 Car Group, Elevator Automatic Controls.....             | 13,746.47 | 1,628.14 |
| 14 28 16 00-0004 EA 4 Car Group, Elevator Automatic Controls.....             | 21,318.87 | 2,170.85 |
| 14 28 16 00-0005 EA 5 Car Group, Elevator Automatic Controls.....             | 30,040.46 | 2,755.28 |
| 14 28 16 00-0006 EA 6 Car Group, Elevator Automatic Controls.....             | 41,989.49 | 3,256.25 |
| 14 28 16 00-0007 EA Duplex Care Selective Collective.....                     | 8,421.30  |          |
| 14 28 16 00-0008 EA Automatic Emergency Power Switching.....                  | 5,009.33  |          |
| 14 28 16 00-0009 EA Manual Emergency Power Switching.....                     | 951.44    |          |
| 14 28 16 00-0010 EA Up To 3, Position Indicator, Signal Devices.....          | 225.91    |          |
| 14 28 16 00-0011 EA >3, Position Indicator, Signal Devices.....               | 189.34    |          |
| 14 28 16 00-0012 EA High Speed Heavy Duty Door Opener.....                    | 3,443.28  |          |
| 14 28 16 00-0013 EA Variable Voltage, Overhead Gearless Machine, Minimum..... | 57,150.71 |          |
| 14 28 16 00-0014 EA Variable Voltage, Overhead Gearless Machine, Average..... | 93,284.48 |          |



|  |  |                                 |           |
|--|--|---------------------------------|-----------|
|  |  | <b>Conveying Equipment</b>      | <b>14</b> |
|  |  | Elevators                       | 14 20     |
|  |  | Elevator Equipment and Controls | 14 28     |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 14 28 16 00-0015 | EA  |     | Variable Voltage, Overhead Gearless Machine, Maximum .....         | 129,277.45             |                      |
| 14 28 16 00-0016 | EA  |     | Variable Voltage, Basement Installed Geared Machine, Minimum ..... | 23,854.50              |                      |
| 14 28 16 00-0017 | EA  |     | Variable Voltage, Basement Installed Geared Machine, Average ..... | 29,614.16              |                      |
| 14 28 16 00-0018 | EA  |     | Variable Voltage, Basement Installed Geared Machine, Maximum ..... | 32,869.62              |                      |

**14 30 Escalators and Moving Walks** <sup>(14)</sup>

**14 31 Escalators** <sup>(14 30)</sup>

**14 31 00 00-0001 Stainless Steel Escalator Construction** <sup>(14 31)</sup>

Note: Prices are medians and are based on each moving stairway. Complete, includes all standard accessories and single microprocessor controlled electronic display sign packages, LED.

|                  |    |  |   |            |           |
|------------------|----|--|---|------------|-----------|
| 14 31 00 00-0002 | EA |  | Escalators Stainless Steel, 32" Wide x 12' Floor To Floor Height..... | 151,124.26 | 13,874.56 |
| 14 31 00 00-0003 | EA |  | Escalators Stainless Steel, 32" Wide x 15' Floor To Floor Height..... | 167,654.59 | 16,397.22 |
| 14 31 00 00-0004 | EA |  | Escalators Stainless Steel, 32" Wide x 18' Floor To Floor Height..... | 182,639.23 | 18,919.86 |
| 14 31 00 00-0005 | EA |  | Escalators Stainless Steel, 32" Wide x 22' Floor To Floor Height..... | 202,120.47 | 22,703.84 |
| 14 31 00 00-0006 | EA |  | Escalators Stainless Steel, 32" Wide x 25' Floor To Floor Height..... | 223,116.17 | 25,226.48 |
| 14 31 00 00-0007 | EA |  | Escalators Stainless Steel, 36" Wide x 12' Floor To Floor Height..... | 159,773.55 | 14,757.50 |
| 14 31 00 00-0008 | EA |  | Escalators Stainless Steel, 36" Wide x 15' Floor To Floor Height..... | 177,603.61 | 17,658.54 |
| 14 31 00 00-0009 | EA |  | Escalators Stainless Steel, 36" Wide x 18' Floor To Floor Height..... | 192,582.56 | 20,181.19 |
| 14 31 00 00-0010 | EA |  | Escalators Stainless Steel, 36" Wide x 22' Floor To Floor Height..... | 217,324.17 | 25,352.61 |
| 14 31 00 00-0011 | EA |  | Escalators Stainless Steel, 36" Wide x 25' Floor To Floor Height..... | 234,047.63 | 27,244.61 |
| 14 31 00 00-0012 | EA |  | Escalators Stainless Steel, 48" Wide x 12' Floor To Floor Height..... | 168,843.37 | 15,640.42 |
| 14 31 00 00-0013 | EA |  | Escalators Stainless Steel, 48" Wide x 15' Floor To Floor Height..... | 188,288.55 | 18,919.86 |
| 14 31 00 00-0014 | EA |  | Escalators Stainless Steel, 48" Wide x 18' Floor To Floor Height..... | 202,941.22 | 21,442.51 |
| 14 31 00 00-0015 | EA |  | Escalators Stainless Steel, 48" Wide x 22' Floor To Floor Height..... | 233,608.76 | 26,740.08 |
| 14 31 00 00-0016 | EA |  | Escalators Stainless Steel, 48" Wide x 25' Floor To Floor Height..... | 247,895.59 | 29,262.72 |
| 14 31 00 00-0017 | EA |  | Escalator Fire Shutter Fusible Link.....                              | 22,055.17  | 504.53    |

**14 32 Moving Walks** <sup>(14 30)</sup>

**14 32 00 00-0001 Moving Sidewalks** <sup>(14 32)</sup>

Note: Prices are medians. Includes safety rails.

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 14 32 00 00-0002 | LF |  | Moving Sidewalks, 28" Wide.....             | 1,619.04 | 302.71 |
|                  |    |  | For Each LF Of Ramp Or Sloped Sections, Add | 251.16   |        |
| 14 32 00 00-0003 | LF |  | Moving Sidewalks, 36" Wide.....             | 2,147.18 | 309.02 |
|                  |    |  | For Each LF Of Ramp Or Sloped Sections, Add | 355.28   |        |
| 14 32 00 00-0004 | LF |  | Moving Sidewalks, 48" Wide.....             | 2,416.97 | 321.64 |
|                  |    |  | For Each LF Of Ramp Or Sloped Sections, Add | 406.21   |        |
| 14 32 00 00-0005 | LF |  | Moving Sidewalks, 54" Wide.....             | 2,775.60 | 348.88 |
|                  |    |  | For Each LF Of Ramp Or Sloped Sections, Add | 471.39   |        |

**14 40 Lifts** <sup>(14)</sup>

**14 42 Wheelchair Lifts** <sup>(14 40)</sup>

**14 42 13 Inclined Wheelchair Lifts** <sup>(14 42)</sup>

**14 42 13 00-0001 Chair Lift-Stair Climber** <sup>(14 42 13)</sup>

Note: Includes landing, rails, lifting device and gates.

|                  |    |  |   |          |          |
|------------------|----|--|---|----------|----------|
| 14 42 13 00-0002 | EA |  | Chair Lift, Stair Climber Per Story, Single Passenger, Indoor, 300 LB Capacity..... | 7,772.68 | 1,094.37 |
|                  |    |  | Note: Includes top and bottom call button, safety chair, track, and power unit.     |          |          |

**14 42 16 Vertical Wheelchair Lifts** <sup>(14 42)</sup>

**14 42 16 00-0001 Wheelchair Lift (Shorty)** <sup>(14 42 16)</sup>

|                  |    |  |   |           |          |
|------------------|----|--|---|-----------|----------|
| 14 42 16 00-0002 | EA |  | 36" Vertical Travel Wheelchair Platform Scissor Lift.....   | 9,059.00  | 766.07   |
|                  |    |  | Note: 1000 LB capacity. Includes handrails and manual ramp. |           |          |
|                  |    |  | For Accordion Safety Skirt, Add                             | 1,002.44  |          |
|                  |    |  | For Removable Handrails, Add                                | 102.16    |          |
|                  |    |  | For Power Operated Ramp, Add                                | 893.90    |          |
| 14 42 16 00-0003 | EA |  | 42" Vertical Travel Wheelchair Platform Scissor Lift.....   | 11,144.97 | 957.58   |
|                  |    |  | Note: 1000 LB capacity. Includes handrails and manual ramp. |           |          |
|                  |    |  | For 2,000 LB Capacity, Add                                  | 600.19    |          |
|                  |    |  | For 3,000 LB Capacity, Add                                  | 1,002.44  |          |
|                  |    |  | For 4,000 LB Capacity, Add                                  | 1,500.48  |          |
|                  |    |  | For Accordion Safety Skirt, Add                             | 1,002.44  |          |
|                  |    |  | For Removable Handrails, Add                                | 102.16    |          |
|                  |    |  | For Power Operated Ramp, Add                                | 893.90    |          |
| 14 42 16 00-0004 | EA |  | 70" Vertical Travel Wheelchair Platform Scissor Lift.....   | 13,306.62 | 1,244.85 |
|                  |    |  | Note: 1000 LB capacity. Includes handrails and manual ramp. |           |          |
|                  |    |  | For 2,000 LB Capacity, Add                                  | 600.19    |          |
|                  |    |  | For 3,000 LB Capacity, Add                                  | 1,002.44  |          |
|                  |    |  | For 4,000 LB Capacity, Add                                  | 1,500.48  |          |
|                  |    |  | For Accordion Safety Skirt, Add                             | 1,002.44  |          |
|                  |    |  | For Removable Handrails, Add                                | 102.16    |          |
|                  |    |  | For Power Operated Ramp, Add                                | 893.90    |          |



**14 Conveying Equipment**

**14 40 Lifts**

**14 42 Wheelchair Lifts**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 14 42 16 00-0005 EA 84" Vertical Travel Wheelchair Platform Scissor Lift.....<br>Note: 1000 LB capacity. Includes handrails and manual ramp. | 14,958.40                 | 1,436.36                |
| For 2,000 LB Capacity, Add   | 600.19                    |                         |
| For 3,000 LB Capacity, Add   | 1,002.44                  |                         |
| For 4,000 LB Capacity, Add   | 1,500.48                  |                         |
| For Accordion Safety Skirt, Add  | 1,002.44                  |                         |
| For Removable Handrails, Add   | 102.16                    |                         |
| For Power Operated Ramp, Add   | 893.90                    |                         |
| 14 42 16 00-0006 EA 18' Travel Wheelchair Incline Lift .....<br>Note: 500 LB capacity, interior installation.                                | 15,371.85                 | 683.98                  |

**14 90 Other Conveying Equipment** <sup>(14)</sup>

**14 91 Facility Chutes** <sup>(14 90)</sup>

**14 91 82 Trash Chutes** <sup>(14 91)</sup>

**14 91 82 00-0001 Trash Chutes** <sup>(14 91 82)</sup>

|  |          |        |
|--|----------|--------|
| 14 91 82 00-0002 LF 18" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... | 40.45    | 5.75   |
| For Aluminum, Add  | 2.95     |        |
| For Stainless Steel, Add   | 10.31    |        |
| 14 91 82 00-0003 LF 24" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... | 51.84    | 5.75   |
| For Aluminum, Add  | 3.99     |        |
| For Stainless Steel, Add   | 13.96    |        |
| 14 91 82 00-0004 LF 30" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... | 57.13    | 7.19   |
| For Aluminum, Add  | 4.42     |        |
| For Stainless Steel, Add   | 15.47    |        |
| 14 91 82 00-0005 LF 36" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... | 86.84    | 7.19   |
| For Aluminum, Add  | 7.28     |        |
| For Stainless Steel, Add   | 25.49    |        |
| 14 91 82 00-0006 EA Trash Chutes, Hopper.....  | 783.10   | 40.25  |
| For Aluminum, Add  | 70.21    |        |
| For Stainless Steel, Add   | 245.73   |        |
| 14 91 82 00-0007 EA Trash Chutes, Skylight.....  | 402.69   | 79.06  |
| For Aluminum, Add  | 24.42    |        |
| For Stainless Steel, Add   | 85.47    |        |
| 14 91 82 00-0008 EA Trash Chutes, Sprinkler Unit At Top.....                               | 289.10   | 86.24  |
| For Aluminum, Add  | 10.68    |        |
| For Stainless Steel, Add   | 37.39    |        |
| 14 91 82 00-0009 EA Trash Chutes, Sprinkler Unit At Intake Hopper.....                     | 79.07    | 30.18  |
| For Aluminum, Add  | 1.83     |        |
| For Stainless Steel, Add   | 6.41     |        |
| 14 91 82 00-0010 EA Refuse Type Bottom Storage Hopper Unit.....                            | 679.61   | 107.80 |
| For Aluminum, Add  | 45.18    |        |
| For Stainless Steel, Add   | 158.12   |        |
| 14 91 82 00-0011 EA Hopper Doors.....  | 1,488.32 | 70.55  |

**14 92 Pneumatic Tube Systems** <sup>(14 90)</sup>

**14 92 00 00-0001 Pneumatic Message Tube Station** <sup>(14 92)</sup>

Note: Twin tube, two or more stations, conventional

|  |          |        |
|--|----------|--------|
| 14 92 00 00-0002 LF 2-1/2" Tube With Bracketing.....                 | 50.72    | 16.71  |
| 14 92 00 00-0003 LF 3" Tube With Bracketing.....                     | 61.24    | 22.49  |
| 14 92 00 00-0004 LF 4" Tube With Bracketing.....                     | 68.68    | 20.57  |
| 14 92 00 00-0005 LF 6" Tube With Bracketing.....                     | 83.37    | 25.70  |
| 14 92 00 00-0006 LF 4" x 7" Oval Tube With Bracketing.....           | 87.22    | 27.64  |
| 14 92 00 00-0007 EA Blower Assembly.....                             | 7,673.44 | 514.08 |
| 14 92 00 00-0008 EA Receiving Station, Round Or Oval.....            | 728.78   | 136.88 |
| 14 92 00 00-0009 EA Multi-Sided Dispatching Station, 3 Carrier.....  | 2,615.11 | 192.79 |
| 14 92 00 00-0010 EA Laboratory Receiving Station, Round Or Oval..... | 1,835.26 | 173.51 |
| 14 92 00 00-0011 EA 2-Way Diverter Station.....                      | 3,271.52 | 192.79 |
| 14 92 00 00-0012 EA 3-Way Diverter Station.....                      | 4,184.61 | 224.91 |
| 14 92 00 00-0013 EA 4-Way Diverter Station.....                      | 5,029.76 | 257.04 |

**END OF SECTION 14**



|  |                 |           |
|--|-----------------|-----------|
| <b>Fire Suppression</b>  | <b>21</b>       | <b>12</b> |
| <b>Operation and Maintenance of Fire Suppression</b>                     | <b>21 01</b>    |           |
| <b>Operation and Maintenance of Water-Based Fire-Suppression Systems</b> | <b>21 01 10</b> |           |

|                              |                           |                         |
|------------------------------|---------------------------|-------------------------|
| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|

## 21 Fire Suppression

### 21 01 Operation and Maintenance of Fire Suppression <sup>(21)</sup>

#### 21 01 10 Operation and Maintenance of Water-Based Fire-Suppression Systems <sup>(21 01)</sup>

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

##### 21 01 10 91 Water-Based Fire-Suppression Systems Restoration <sup>(21 01 10)</sup>

|                  |    |  |        |
|------------------|----|--|--------|
| 21 01 10 91-0001 | EA | Relocate Sprinkler Head And Branch Piping <sup>(21 01 10 91)</sup>                                     |        |
|                  |    | See CSI section 21 13 13 00-0024 for new wet pipe sprinkler heads (when required).                     |        |
| 21 01 10 91-0002 | EA | Relocate 1 Existing Sprinkler Head And Branch Piping.....  | 717.48 |
|                  |    | Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location. |        |
| 21 01 10 91-0003 | EA | Relocate 2 To 4 Existing Sprinkler Heads And Branch Piping.....  | 430.49 |
|                  |    | Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location. |        |
| 21 01 10 91-0004 | EA | Relocate >4 To 10 Existing Sprinkler Heads And Branch Piping.....                                      | 172.20 |
|                  |    | Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location. |        |
| 21 01 10 91-0005 | EA | Relocate >10 Existing Sprinkler Heads And Branch Piping.....   | 86.09  |
|                  |    | Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location. |        |

|                  |    |   |          |
|------------------|----|---|----------|
| 21 01 10 91-0006 | EA | Purge And Refill System Sprinkler Piping <sup>(21 01 10 91)</sup>   |          |
|                  |    | Note: Includes shutting off valve, draining pipe and collection of liquid, refilling with liquid and bleeding of air from system. |          |
| 21 01 10 91-0007 | EA | Up To 100', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....   | 504.00   |
| 21 01 10 91-0008 | EA | >100 To 250', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....                                       | 719.82   |
| 21 01 10 91-0009 | EA | >250 To 500', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....                                       | 862.49   |
| 21 01 10 91-0010 | EA | >500 To 1,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....                                     | 1,078.11 |
| 21 01 10 91-0011 | EA | >1,000 To 2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....                                   | 1,401.55 |
| 21 01 10 91-0012 | LF | >2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....  | 0.70     |
| 21 01 10 91-0013 | EA | Up To 100', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                               | 705.62   |
| 21 01 10 91-0014 | EA | >100 To 250', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                             | 1,007.76 |
| 21 01 10 91-0015 | EA | >250 To 500', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                             | 1,207.49 |
| 21 01 10 91-0016 | EA | >500 To 1,000', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                           | 1,509.36 |
| 21 01 10 91-0017 | EA | >1,000 To 2,000', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                         | 1,962.17 |
| 21 01 10 91-0018 | LF | >2,000', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                                  | 0.99     |
| 21 01 10 91-0019 | EA | Up To 100', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                                   | 970.21   |
| 21 01 10 91-0020 | EA | >100 To 250', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                                 | 1,385.67 |
| 21 01 10 91-0021 | EA | >250 To 500', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                                 | 1,660.29 |
| 21 01 10 91-0022 | EA | >500 To 1,000', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                               | 2,075.36 |
| 21 01 10 91-0023 | EA | >1,000 To 2,000', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                             | 2,697.98 |
| 21 01 10 91-0024 | LF | >2,000', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....                                      | 1.35     |
| 21 01 10 91-0025 | EA | Up To 100', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....                                    | 1,309.79 |
| 21 01 10 91-0026 | EA | >100 To 250', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....                                  | 1,870.64 |
| 21 01 10 91-0027 | EA | >250 To 500', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....                                  | 1,985.77 |
| 21 01 10 91-0028 | EA | >500 To 1,000', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....                                | 2,482.21 |
| 21 01 10 91-0029 | EA | >1,000 To 2,000', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....                              | 3,226.87 |
| 21 01 10 91-0030 | LF | >2,000', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....                                       | 1.61     |

#### 21 01 30 Operation and Maintenance of Fire-Suppression Equipment <sup>(21 01)</sup>

##### 21 01 30 91 Fire-Suppression Equipment Restoration <sup>(21 01 30)</sup>

|                  |     |   |        |
|------------------|-----|---|--------|
| 21 01 30 91-0001 | EA  | Inspection And Recharge <sup>(21 01 30 91)</sup>                      |        |
| 21 01 30 91-0002 | EA  | Inspection, CO2, Carbon Dioxide.....                                  | 308.52 |
| 21 01 30 91-0003 | LB  | Refill/Recharge, CO2, Carbon Dioxide.....                             | 2.89   |
| 21 01 30 91-0004 | EA  | Inspection, Halon 1301.....   | 308.52 |
| 21 01 30 91-0005 | LB  | Refill/Recharge, Halon 1301.....                                      | 69.37  |
| 21 01 30 91-0006 | EA  | Inspection, WC, Wet Chemical.....                                     | 186.54 |
| 21 01 30 91-0007 | GAL | Refill/Recharge, WC, Wet Chemical.....                                | 65.04  |
| 21 01 30 91-0008 | EA  | Inspection, DC, Dry Chemical.....                                     | 186.54 |
| 21 01 30 91-0009 | LB  | Refill/Recharge, DC, Dry Chemical.....                                | 5.78   |
| 21 01 30 91-0010 | EA  | Hydrostatic Testing, All Sizes, All Agents.....                       | 57.40  |
|                  |     | See CSI section 23 05 93 00-0046 for testing existing piping systems. |        |
| 21 01 30 91-0011 | EA  | Disarm/Arm System.....  | 100.45 |

### 21 05 Common Work Results for Fire Suppression <sup>(21)</sup>

#### 21 05 13 Common Motor Requirements for Fire-Suppression Equipment <sup>(21 05)</sup>

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

#### 21 05 16 Expansion Fittings and Loops for Fire-Suppression Piping <sup>(21 05)</sup>

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

|           |  |
|-----------|--|
| <b>21</b> | <b>21 Fire Suppression</b>   |
|           | <b>21 05 Common Work Results for Fire Suppression</b>                |
|           | <b>21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping</b> |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping** <sup>(21 05)</sup>

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

**21 05 19 Meters and Gages for Fire-Suppression Systems** <sup>(21 05)</sup>

See CSI section 33 19 00 00-0000 for water utility service metering.

|                         |  |       |       |
|-------------------------|--|-------|-------|
| <b>21 05 19 00-0001</b> | <b>Fire Sprinkler System Water Pressure Gauge</b> <sup>(21 05 19)</sup>                            |       |       |
| 21 05 19 00-0002        | EA 2" Diameter Dial, 0-200 PSI, Water Pressure Gauge .....<br>Note: For fire sprinkler systems     | 56.43 | 16.90 |
| 21 05 19 00-0003        | EA 2-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....<br>Note: For fire sprinkler systems | 58.29 | 16.90 |
| 21 05 19 00-0004        | EA 3" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....<br>Note: For fire sprinkler systems     | 66.97 | 16.90 |
| 21 05 19 00-0005        | EA 3-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....<br>Note: For fire sprinkler systems | 70.53 | 16.90 |
| 21 05 19 00-0006        | EA 4" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....<br>Note: For fire sprinkler systems     | 74.10 | 16.90 |

**21 05 19 00-0007 Fire Service Meter Cast Iron Housing** <sup>(21 05 19)</sup>

|                  |  |                                     |        |
|------------------|--|-------------------------------------|--------|
| 21 05 19 00-0008 | EA 3" Diameter, 0 - 600 GPM Fire Service Meter Flanged, With Cast Iron Housing.....<br><i>For &gt;10 To 25, Deduct</i><br><i>For &gt;25, Deduct</i>    | 5,335.53<br>-266.78<br>-770.33      | 239.67 |
| 21 05 19 00-0009 | EA 4" Diameter, 0 - 1,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....<br><i>For &gt;10 To 25, Deduct</i><br><i>For &gt;25, Deduct</i>  | 10,848.63<br>-542.43<br>-1,576.94   | 401.80 |
| 21 05 19 00-0010 | EA 6" Diameter, 0 - 2,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....<br><i>For &gt;10 To 25, Deduct</i><br><i>For &gt;25, Deduct</i>  | 14,627.66<br>-731.38<br>-2,130.06   | 510.84 |
| 21 05 19 00-0011 | EA 8" Diameter, 0 - 4,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....<br><i>For &gt;10 To 25, Deduct</i><br><i>For &gt;25, Deduct</i>  | 19,072.45<br>-953.62<br>-2,779.78   | 652.74 |
| 21 05 19 00-0012 | EA 10" Diameter, 0 - 6,200 GPM Fire Service Meter Flanged, With Cast Iron Housing.....<br><i>For &gt;10 To 25, Deduct</i><br><i>For &gt;25, Deduct</i> | 26,836.18<br>-1,341.81<br>-3,926.10 | 794.65 |

**21 05 23 General-Duty Valves for Water-Based Fire-Suppression Piping**

<sup>(21 05)</sup>  
See CSI section 22 05 23 00-0000 for additional valves, 23 05 23 00-0000 for additional valves.

|                         |   |        |       |
|-------------------------|---|--------|-------|
| <b>21 05 23 00-0001</b> | <b>TESTanDRAIN® Valve</b> <sup>(21 05 23)</sup>                         |        |       |
| 21 05 23 00-0002        | EA 1/4" 3-Way Globe Valve With 1/4" NPT Test Port (AGF 7600).....       | 250.26 | 19.47 |
| 21 05 23 00-0003        | EA 1" Threaded TESTanDRAIN® Valve (AGF 1000).....                       | 283.71 | 23.53 |
| 21 05 23 00-0004        | EA 1-1/4" Threaded TESTanDRAIN® Valve (AGF 1000).....                   | 347.60 | 29.75 |
| 21 05 23 00-0005        | EA 1-1/2" Threaded TESTanDRAIN® Valve (AGF 1000).....                   | 534.40 | 34.35 |
| 21 05 23 00-0006        | EA 2" Threaded TESTanDRAIN® Valve (AGF 1000).....                       | 564.75 | 40.57 |
| 21 05 23 00-0007        | EA 1" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....     | 392.36 | 23.53 |
| 21 05 23 00-0008        | EA 1-1/4" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011)..... | 455.20 | 29.75 |
| 21 05 23 00-0009        | EA 1-1/2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011)..... | 645.27 | 34.35 |
| 21 05 23 00-0010        | EA 2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....     | 678.57 | 40.57 |

**21 05 29 Hangers and Supports for Fire-Suppression Piping and Equipment** <sup>(21 05)</sup>

See CSI section 23 05 29 00-0000 for hangers and supports.

**21 05 33 Heat Tracing for Fire-Suppression Piping** <sup>(21 05)</sup>

See CSI section 23 83 13 13-0000 for heat tracing cables.

**21 05 48 Vibration and Seismic Controls for Fire-Suppression Piping and Equipment** <sup>(21 05)</sup>

|                    |   |  |  |
|--------------------|---|--|--|
| <b>21 05 48 13</b> | <b>Vibration Controls for Fire-Suppression Piping and Equipment</b> <sup>(21 05 48)</sup> |  |  |
|                    | See CSI section 23 05 48 13-0000 for vibration and seismic control.                       |  |  |

**21 05 53 Identification for Fire-Suppression Piping and Equipment** <sup>(21 05)</sup>

See CSI section 23 05 53 00-0000 for identification.

**21 07 Fire-Suppression Systems Insulation** <sup>(21)</sup>

**21 07 16 Fire-Suppression Equipment Insulation** <sup>(21 07)</sup>

See CSI section 23 07 16 00-0000 for fire-suppression equipment insulation.

**21 07 19 Fire-Suppression Piping Insulation** <sup>(21 07)</sup>

See CSI section 22 07 19 00-0000 for fire-suppression piping insulation.

**21 10 Water-Based Fire-Suppression Systems** <sup>(21)</sup>

See CSI section 22 11 16 00-0368 for copper pipe, 22 11 16 00-0912 for CPVC pipe, 23 05 23 00-0037 for OS&Y gate valves, 23 21 13 23-0000 for black steel piping.



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                               | <b>21</b>    |           |
| <b>Water-Based Fire-Suppression Systems</b>           | <b>21 10</b> | <b>12</b> |
| <b>Facility Fire-Suppression Water-Service Piping</b> | <b>21 11</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**21 11 Facility Fire-Suppression Water-Service Piping** (21 10)

**21 11 19 Fire-Department Connections** (21 11)

**21 11 19 00-0001 Fire Department Connections** (21 11 19)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 21 11 19 00-0002 | EA | 4" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass                     | 1,160.98 | 435.44 |
|                  |    | <i>For Polished Chrome, Add</i>   | 62.67    |        |
| 21 11 19 00-0003 | EA | 6" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass                     | 1,592.29 | 544.30 |
|                  |    | <i>For Polished Chrome, Add</i>   | 95.92    |        |
| 21 11 19 00-0004 | EA | 4" x 3" x 3" Siamese Connection, Polished Brass                             | 1,631.86 | 435.44 |
|                  |    | <i>For Polished Chrome, Add</i>   | 121.49   |        |
| 21 11 19 00-0005 | EA | 6" x 3" x 3" Siamese Connection, Polished Brass                             | 2,144.77 | 544.30 |
|                  |    | <i>For Polished Chrome, Add</i>   | 164.98   |        |
| 21 11 19 00-0006 | EA | 6" x 2-1/2" x 2-1/2" x 2-1/2" Siamese Connection, Three Way, Polished Brass | 2,279.82 | 544.30 |
|                  |    | <i>For Polished Chrome, Add</i>   | 181.86   |        |
| 21 11 19 00-0007 | EA | Sidewalk Type Connection With Plug And Chain, Polished Brass                | 1,994.45 | 576.08 |
|                  |    | <i>For Polished Chrome, Add</i>   | 140.25   |        |
| 21 11 19 00-0008 | EA | Wall Type Connection With Plug And Chain, Polished Brass                    | 1,303.43 | 435.44 |
|                  |    | <i>For Polished Chrome, Add</i>   | 80.47    |        |

**21 11 19 00-0009 Wall Type Indicator Post, Wheel Operated** (21 11 19)

See CSI section 33 14 19 00-0159 for adjustable indicator post accessory for ground valves.

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 21 11 19 00-0010 | EA | Wall Type Indicator Post With Wall Flange For Valve (Victaulic 773) | 1,849.69 | 401.80 |
|------------------|----|---|----------|--------|

**21 12 Fire-Suppression Standpipes** (21 10)

See CSI section 23 21 13 23-0000 for black steel pipe.

**21 12 13 Fire-Suppression Hoses and Nozzles** (21 12)

**21 12 13 00-0001 Fire Hose** (21 12 13)

**21 12 13 00-0002 Fire Hose Without Couplings** (21 12 13 00-0001)

|                  |    |  |      |      |
|------------------|----|--|------|------|
| 21 12 13 00-0003 | LF | 1-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings               | 3.57 | 2.87 |
| 21 12 13 00-0004 | LF | 2-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings               | 4.12 | 2.87 |
| 21 12 13 00-0005 | LF | 2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings                   | 3.79 | 2.87 |
| 21 12 13 00-0006 | LF | 3" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings                   | 4.38 | 2.87 |
| 21 12 13 00-0007 | LF | 1-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings | 3.90 | 2.87 |
| 21 12 13 00-0008 | LF | 2-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings | 4.72 | 2.87 |
| 21 12 13 00-0009 | LF | 1-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings | 3.99 | 2.87 |
| 21 12 13 00-0010 | LF | 2-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings | 4.93 | 2.87 |

**21 12 13 00-0011 Fire Hose With Aluminum Couplings** (21 12 13 00-0001)

|                  |    |   |       |      |
|------------------|----|---|-------|------|
| 21 12 13 00-0012 | LF | 1-3/4" Polyester Fire Hose With Rubber Lining With Aluminum Couplings | 8.72  | 1.58 |
| 21 12 13 00-0013 | LF | 2-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings | 10.87 | 1.86 |
| 21 12 13 00-0014 | LF | 3-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings | 18.26 | 1.86 |

**21 12 13 00-0015 Fire Hose Accessories** (21 12 13 00-0001)

|                  |    |                                    |        |        |
|------------------|----|------------------------------------|--------|--------|
| 21 12 13 00-0016 | EA | Hose Coupling With 1-1/2" Pin Lug  | 274.98 | 47.36  |
| 21 12 13 00-0017 | EA | Hose Coupling With 2-1/2" Pin Lug  | 430.76 | 53.09  |
| 21 12 13 00-0018 | EA | 1-1/2" x 10" Brass Straight Nozzle | 103.07 | 37.31  |
| 21 12 13 00-0019 | EA | 2-1/2" x 12" Brass Straight Nozzle | 189.83 | 37.31  |
| 21 12 13 00-0020 | EA | 1-1/2" Brass Fog Type Nozzle       | 152.98 | 37.31  |
| 21 12 13 00-0021 | EA | 2-1/2" Brass Fog Type Nozzle       | 214.25 | 37.31  |
| 21 12 13 00-0022 | EA | 1-1/2" Brass 100' Hose Rack        | 366.60 | 157.84 |
| 21 12 13 00-0023 | EA | 2-1/2" Brass 100' Hose Rack        | 483.42 | 157.84 |

**21 12 23 Fire-Suppression Hose Valves** (21 12)

**21 12 23 00-0001 Standpipe Valves** (21 12 23)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 21 12 23 00-0002 | EA | 2-1/2" Fire Department Valve, Polished Brass With Plug And Chain           | 759.04   | 288.04 |
|                  |    | <i>For Polished Chrome, Add</i>  | 48.42    |        |
| 21 12 23 00-0003 | EA | 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass          | 1,141.16 | 287.91 |
|                  |    | <i>For Polished Chrome, Add</i>  | 105.74   |        |
| 21 12 23 00-0004 | EA | 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass          | 1,444.24 | 311.43 |
|                  |    | <i>For Polished Chrome, Add</i>  | 145.84   |        |
| 21 12 23 00-0005 | EA | 3" x 3" x 4" Fire Department Valve, Flush, Polished Brass                  | 1,691.80 | 287.91 |
|                  |    | <i>For Polished Chrome, Add</i>  | 188.34   |        |
| 21 12 23 00-0006 | EA | 3" x 3" x 6" Fire Department Valve, Flush, Polished Brass                  | 1,974.93 | 311.43 |
|                  |    | <i>For Polished Chrome, Add</i>  | 225.44   |        |
| 21 12 23 00-0007 | EA | 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass     | 1,082.63 | 287.91 |
|                  |    | <i>For Polished Chrome, Add</i>  | 96.96    |        |
| 21 12 23 00-0008 | EA | 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass     | 1,536.01 | 311.43 |
|                  |    | <i>For Polished Chrome, Add</i>  | 159.61   |        |
| 21 12 23 00-0009 | EA | 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass | 1,920.06 | 297.24 |
|                  |    | <i>For Polished Chrome, Add</i>  | 176.37   |        |
| 21 12 23 00-0010 | EA | 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass | 2,704.97 | 330.23 |
|                  |    | <i>For Polished Chrome, Add</i>  | 264.55   |        |

|           |              |   |
|-----------|--------------|---|
| <b>21</b> | <b>21</b>    | <b>Fire Suppression</b>                     |
|           | <b>21 10</b> | <b>Water-Based Fire-Suppression Systems</b> |
|           | <b>21 12</b> | <b>Fire-Suppression Standpipes</b>          |



| MINOR  |     | TOTAL DIRECT   |           | DEMOLITION |        |
|--|-----|--|-----------|------------|--------|
| CSI  | UOM | DESCRIPTION  | UNIT COST | UNIT COST  |        |
| 21 12 23 00-0011   | EA  | 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass .....                  | 2,051.73  |            | 297.24 |
|  |     | <i>For Polished Chrome, Add</i>  | 192.17    |            |        |
| 21 12 23 00-0012   | EA  | 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass .....                  | 2,903.36  |            | 330.23 |
|  |     | <i>For Polished Chrome, Add</i>  | 288.35    |            |        |
| 21 12 23 00-0013   | EA  | 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Square, Flush, Polished Brass.....                | 12,881.80 |            | 396.22 |
|  |     | <i>For Polished Chrome, Add</i>  | 1,228.13  |            |        |
| <b>21 12 23 00-0014 Fire Hose Angle Valves</b> <small>(21 12 23)</small>   |     |  |           |            |        |
| 21 12 23 00-0015   | EA  | 1-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve .....  | 249.34    |            | 38.75  |
| 21 12 23 00-0016   | EA  | 1-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve .....                                      | 294.08    |            | 38.75  |
| 21 12 23 00-0017   | EA  | 1-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve.....                                  | 277.81    |            | 38.75  |
| 21 12 23 00-0018   | EA  | 1-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve .....                              | 322.55    |            | 38.75  |
| 21 12 23 00-0019   | EA  | 2-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve .....  | 441.28    |            | 64.58  |
| 21 12 23 00-0020   | EA  | 2-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve .....                                      | 506.35    |            | 64.58  |
| 21 12 23 00-0021   | EA  | 2-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve.....                                  | 511.78    |            | 64.58  |
| 21 12 23 00-0022   | EA  | 2-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve .....                              | 576.85    |            | 64.58  |
| <b>21 12 29 Fire-Suppression Fire Hose Equipment</b> <small>(21 12)</small>  |     |  |           |            |        |
| <b>21 12 29 00-0001 Standpipe And Fire Hose Equipment</b> <small>(21 12 29)</small>  |     |  |           |            |        |
| 21 12 29 00-0002   | EA  | 2-1/2" x 2-1/2" x 2-1/2" x 4" Manifold Roof Type, Vertical, Polished Brass .....                       | 4,423.37  |            | 714.02 |
| 21 12 29 00-0003   | EA  | Water Motor Gong .....   | 1,546.88  |            | 199.28 |
| 21 12 29 00-0004   | EA  | Fire Riser Flow Switch (National Fire Protection Association 13) .....                                 | 1,453.75  |            | 23.18  |
| 21 12 29 00-0005   | EA  | Water Flow Supervisory (Tammer) Switch Mounted On Valve.....   | 259.12    |            | 39.66  |
| 21 12 29 00-0006   | EA  | Lever Type Bleeder Valve (Potter BVL).....   | 181.46    |            | 39.66  |
| <b>21 12 29 00-0007 Water Flow Detector</b> <small>(21 12 29)</small>  |     |  |           |            |        |
| <b>21 12 29 00-0008 Pressure-Type Wazter Flow Detector</b> <small>(21 12 29 00-0007)</small>   |     |  |           |            |        |
| 21 12 29 00-0009   | EA  | Pressure-Type Water Flow Detector For Up To 2-1/2" Pipe .....  | 427.66    |            | 122.03 |
| 21 12 29 00-0010   | EA  | Pressure-Type Water Flow Detector For >2-1/2" To 4" Pipe .....   | 617.93    |            | 161.70 |
| 21 12 29 00-0011   | EA  | Pressure-Type Water Flow Detector For >4" To 8" Pipe .....   | 942.76    |            | 183.05 |
| <b>21 12 29 00-0012 Vane-Type Water Flow Detector</b> <small>(21 12 29 00-0007)</small>  |     |  |           |            |        |
| 21 12 29 00-0013   | EA  | Vane-Type Water Flow Detector For Up To 2-1/2" Pipe .....  | 527.01    |            | 122.03 |
| 21 12 29 00-0014   | EA  | Vane-Type Water Flow Detector For >2-1/2" To 4" Pipe .....   | 739.63    |            | 161.70 |
| 21 12 29 00-0015   | EA  | Vane-Type Water Flow Detector For >4" To 8" Pipe .....   | 1,135.69  |            | 183.05 |
| <b>21 13 Fire-Suppression Sprinkler Systems</b> <small>(21 10)</small>   |     |  |           |            |        |
| <b>21 13 13 Wet-Pipe Sprinkler Systems</b> <small>(21 13)</small>  |     |  |           |            |        |
| <b>21 13 13 00-0001 Complete Wet Pipe Sprinkler Systems Assemblies</b> <small>(21 13 13)</small>   |     |  |           |            |        |
| Note: Includes all branch line piping (standard weight threaded black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc) from riser pipe and mains. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. Not for use where detail is available. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1411 for individual grooved pipe, 23 21 13 23-1484 for individual grooved pipe fittings. |     |  |           |            |        |
| <b>21 13 13 00-0002 Light Hazard, Complete Wet-Pipe Sprinkler System Assemblies</b> <small>(21 13 13 00-0001)</small>  |     |  |           |            |        |
| 21 13 13 00-0003   | EA  | Exposed Piping, Light Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....              | 1,050.64  |            |        |
|  |     | Note: Includes branch pipe and fittings, supports and sprinkler heads.                                 |           |            |        |
|  |     | <i>For Copper Pipe, Add</i>  | 134.59    |            |        |
|  |     | <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>   | -187.13   |            |        |
|  |     | <i>For Up To 5, Add</i>  | 466.26    |            |        |
|  |     | <i>For &gt;5 To 10, Add</i>  | 279.14    |            |        |
|  |     | <i>For &gt;10 To 20, Add</i>   | 174.07    |            |        |
|  |     | <i>For &gt;20 To 40, Add</i>   | 75.53     |            |        |
|  |     | <i>For &gt;100 To 150, Deduct</i>  | -105.06   |            |        |
|  |     | <i>For &gt;150, Deduct</i>   | -210.13   |            |        |
| 21 13 13 00-0004   | EA  | Concealed Piping, Light Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....            | 1,316.32  |            |        |
|  |     | Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon. |           |            |        |
|  |     | <i>For Copper Pipe, Add</i>  | 163.58    |            |        |
|  |     | <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>   | -229.39   |            |        |
|  |     | <i>For Up To 5, Add</i>  | 594.27    |            |        |
|  |     | <i>For &gt;5 To 10, Add</i>  | 364.88    |            |        |
|  |     | <i>For &gt;10 To 20, Add</i>   | 233.25    |            |        |
|  |     | <i>For &gt;20 To 40, Add</i>   | 99.69     |            |        |
|  |     | <i>For &gt;100 To 150, Deduct</i>  | -131.63   |            |        |
|  |     | <i>For &gt;150, Deduct</i>   | -263.26   |            |        |
|  |     | <i>For Work In Restricted Working Space, Add</i>   | 203.24    |            |        |
| <b>21 13 13 00-0005 Ordinary Hazard, Complete Wet-Pipe Sprinkler System Assemblies</b> <small>(21 13 13 00-0001)</small>   |     |  |           |            |        |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    |           |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> | <b>12</b> |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 21 13 13 00-0006 | EA  |     | Exposed Piping, Ordinary Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly ..... 1,026.84<br>Note: Includes branch pipe and fittings, supports and sprinkler heads.                                   |                        |                      |
|                  |     |     | <i>For Copper Pipe, Add</i>   | 131.30                 |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>  | -182.64                |                      |
|                  |     |     | <i>For Up To 5, Add</i>   | 456.19                 |                      |
|                  |     |     | <i>For &gt;5 To 10, Add</i>   | 273.55                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 170.86                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 74.07                  |                      |
|                  |     |     | <i>For &gt;100 To 150, Deduct</i>   | -102.68                |                      |
|                  |     |     | <i>For &gt;150, Deduct</i>  | -205.37                |                      |
| 21 13 13 00-0007 | EA  |     | Concealed Piping, Ordinary Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly ..... 1,282.26<br>Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon. |                        |                      |
|                  |     |     | <i>For Copper Pipe, Add</i>   | 158.91                 |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>  | -223.03                |                      |
|                  |     |     | <i>For Up To 5, Add</i>   | 579.76                 |                      |
|                  |     |     | <i>For &gt;5 To 10, Add</i>   | 356.73                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 228.50                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 97.54                  |                      |
|                  |     |     | <i>For &gt;100 To 150, Deduct</i>   | -128.23                |                      |
|                  |     |     | <i>For &gt;150, Deduct</i>  | -256.45                |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 200.55                 |                      |
| 21 13 13 00-0008 |     |     | <b>Extra Hazard, Complete Wet-Pipe Sprinkler System Assemblies (21 13 13 00-0001)</b>   |                        |                      |
| 21 13 13 00-0009 | EA  |     | Exposed Piping, Extra Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly ..... 947.46<br>Note: Includes branch pipe and fittings, supports and sprinkler heads.  |                        |                      |
|                  |     |     | <i>For Copper Pipe, Add</i>   | 120.95                 |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>  | -168.33                |                      |
|                  |     |     | <i>For Up To 5, Add</i>   | 421.32                 |                      |
|                  |     |     | <i>For &gt;5 To 10, Add</i>   | 252.99                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 158.24                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 68.54                  |                      |
|                  |     |     | <i>For &gt;100 To 150, Deduct</i>   | -94.75                 |                      |
|                  |     |     | <i>For &gt;150, Deduct</i>  | -189.49                |                      |
| 21 13 13 00-0010 | EA  |     | Concealed Piping, Extra Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly ..... 1,185.80<br>Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.    |                        |                      |
|                  |     |     | <i>For Copper Pipe, Add</i>   | 146.73                 |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>  | -206.02                |                      |
|                  |     |     | <i>For Up To 5, Add</i>   | 536.60                 |                      |
|                  |     |     | <i>For &gt;5 To 10, Add</i>   | 330.58                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>  | 212.00                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>  | 90.43                  |                      |
|                  |     |     | <i>For &gt;100 To 150, Deduct</i>   | -118.58                |                      |
|                  |     |     | <i>For &gt;150, Deduct</i>  | -237.16                |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 186.83                 |                      |
| 21 13 13 00-0011 |     |     | <b>Wet Pipe Sprinkler Components (21 13 13)</b>   |                        |                      |
|                  |     |     | Note: Excludes hydraulic calculations.  |                        |                      |
| 21 13 13 00-0012 |     |     | <b>Wet Pipe Alarm Check Valves (21 13 13 00-0011)</b>   |                        |                      |
|                  |     |     | Note: Excludes trim package See CSI section 21 13 13 00-0018 for Wet Pipe Valve Trim.   |                        |                      |
| 21 13 13 00-0013 | EA  |     | 2-1/2" Wet Pipe Alarm Check Valve ..... 2,031.39  | 167.79                 |                      |
| 21 13 13 00-0014 | EA  |     | 3" Wet Pipe Alarm Check Valve ..... 2,080.20  | 192.20                 |                      |
| 21 13 13 00-0015 | EA  |     | 4" Wet Pipe Alarm Check Valve ..... 2,348.67  | 326.44                 |                      |
| 21 13 13 00-0016 | EA  |     | 6" Wet Pipe Alarm Check Valve ..... 2,285.63  | 411.86                 |                      |
| 21 13 13 00-0017 | EA  |     | 8" Wet Pipe Alarm Check Valve ..... 4,042.31  | 521.70                 |                      |
| 21 13 13 00-0018 |     |     | <b>Wet Pipe Valve Trim (21 13 13 00-0011)</b>   |                        |                      |
|                  |     |     | Note: Vertical or Horizontal, closed drain, basic galvanized trim assembly package. Includes gauges, pressure switch, relief valve, drain line, and retard chamber.   |                        |                      |
| 21 13 13 00-0019 | EA  |     | 2-1/2" Wet Pipe Valve Trim ..... 1,714.41   | 355.12                 |                      |
| 21 13 13 00-0020 | EA  |     | 3" Wet Pipe Valve Trim ..... 1,806.08   | 355.12                 |                      |
| 21 13 13 00-0021 | EA  |     | 4" Wet Pipe Valve Trim ..... 2,191.31   | 486.92                 |                      |
| 21 13 13 00-0022 | EA  |     | 6" Wet Pipe Valve Trim ..... 2,600.27   | 677.29                 |                      |
| 21 13 13 00-0023 | EA  |     | 8" Wet Pipe Valve Trim ..... 2,868.74   | 838.37                 |                      |
| 21 13 13 00-0024 |     |     | <b>Wet Pipe Sprinkler Heads (21 13 13 00-0011)</b>  |                        |                      |
| 21 13 13 00-0025 |     |     | <b>Upright Wet Pipe Sprinkler Heads (21 13 13 00-0024)</b>  |                        |                      |
| 21 13 13 00-0026 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Brass Wet Pipe Sprinkler Head ..... 95.23   | 16.14                  |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -7.99                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -13.52                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.12                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.04                 |                      |
| 21 13 13 00-0027 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Chrome Wet Pipe Sprinkler Head ..... 98.35  | 16.14                  |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.15                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -13.91                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.68                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.60                 |                      |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 21 13 13 00-0028 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright White Polyester Coated Wet Pipe Sprinkler Head.....                   | 100.34                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.25                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -14.16                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -29.04                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.96                 |                      |
| 21 13 13 00-0029 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....                     | 96.80                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.07                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -13.71                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.40                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.32                 |                      |
| 21 13 13 00-0030 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....                    | 100.04                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.23                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -14.12                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.99                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.90                 |                      |
| 21 13 13 00-0031 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....    | 102.12                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.34                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -14.38                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -29.36                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -42.28                 |                      |
| 21 13 13 00-0032 | EA  |     | 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....                           | 117.24                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.09                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.27                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.08                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -45.00                 |                      |
| 21 13 13 00-0033 | EA  |     | 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....                          | 125.60                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.51                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -17.31                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.59                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.50                 |                      |
| 21 13 13 00-0034 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....                   | 117.24                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.09                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.27                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.08                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -45.00                 |                      |
| 21 13 13 00-0035 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....                  | 125.60                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.51                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -17.31                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.59                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.50                 |                      |
| 21 13 13 00-0036 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....                    | 106.41                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.55                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -14.92                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -30.13                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -43.05                 |                      |
| 21 13 13 00-0037 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....                   | 110.49                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.75                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.43                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -30.87                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -43.78                 |                      |
| 21 13 13 00-0038 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....                  | 109.03                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.04                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.42                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -31.82                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.17                 |                      |
| 21 13 13 00-0039 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....                 | 113.80                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.28                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.02                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.68                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.03                 |                      |
| 21 13 13 00-0040 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright White Polyester Coated Wet Pipe Sprinkler Head..... | 114.77                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.33                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.14                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.86                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.21                 |                      |
| 21 13 13 00-0041 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....   | 109.03                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.04                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.42                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -31.82                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.17                 |                      |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 13 13 00-0042 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....                 | 113.80                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.28                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.02                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -32.68                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -47.03                 |                      |
| 21 13 13 00-0043 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head..... | 114.77                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.33                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.14                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -32.86                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -47.21                 |                      |
| 21 13 13 00-0044 | EA  |     | 1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Brass Wet Pipe Sprinkler Head .....  | 104.25                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.44                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -14.65                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.74                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -42.66                 |                      |
| 21 13 13 00-0045 | EA  |     | 1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Chrome Wet Pipe Sprinkler Head.....  | 107.37                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.60                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.04                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.31                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.22                 |                      |
| 21 13 13 00-0046 | EA  |     | 1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright White Polyester Coated Wet Pipe Sprinkler Head.....                                  | 107.97                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.11                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.41                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.33                 |                      |
| 21 13 13 00-0047 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Brass Wet Pipe Sprinkler Head .....   | 104.25                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.44                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -14.65                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.74                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -42.66                 |                      |
| 21 13 13 00-0048 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Chrome Wet Pipe Sprinkler Head.....   | 107.37                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.60                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.04                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.31                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.22                 |                      |
| 21 13 13 00-0049 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright White Polyester Coated Wet Pipe Sprinkler Head.....                                 | 107.97                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.11                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.41                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.33                 |                      |
| 21 13 13 00-0050 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Combustible Concealed Space, Upright Brass Wet Pipe Sprinkler Head .....                     | 107.96                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.11                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.41                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.33                 |                      |
| 21 13 13 00-0051 | EA  |     | 3/4" NPT Thread, K=14.0, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head .....  | 142.51                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.71                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -19.61                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -37.85                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -52.20                 |                      |
| 21 13 13 00-0052 | EA  |     | 3/4" NPT Thread, K=14.0, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....  | 146.10                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.89                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -20.06                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -38.50                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -52.85                 |                      |
| 21 13 13 00-0053 | EA  |     | 3/4" NPT Thread, K=14.0, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....                            | 146.10                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.89                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -20.06                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -38.50                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -52.85                 |                      |
| 21 13 13 00-0054 | EA  |     | 3/4" NPT Thread, K=11.2, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head .....  | 118.29                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.50                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.58                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.49                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -47.84                 |                      |
| 21 13 13 00-0055 | EA  |     | 3/4" NPT Thread, K=11.2, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....  | 120.75                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.89                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.93                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -48.28                 |                      |



**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 21 13 13 00-0056        | EA  |     | 3/4" NPT Thread, K=11.2, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head .....   | 120.75                 | 17.93                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.63                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.89                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.93                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -48.28                 |                      |
| 21 13 13 00-0057        | EA  |     | 1/2" NPT Thread, K=5.6, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head .....              | 320.36                 | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -19.25                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -41.66                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -68.64                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -81.56                 |                      |
| 21 13 13 00-0058        | EA  |     | 3/4" NPT Thread, K=8.0, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head .....              | 352.88                 | 17.93                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -21.23                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -45.90                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -75.72                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -90.07                 |                      |
| 21 13 13 00-0059        | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head .....  | 176.58                 | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -12.06                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -23.69                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -42.76                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -55.68                 |                      |
| 21 13 13 00-0060        | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head ..... | 214.04                 | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -13.93                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -28.37                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -49.51                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -62.42                 |                      |
| 21 13 13 00-0061        | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Brass Wet Pipe Sprinkler Head .....         | 370.69                 | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -21.76                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -47.95                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -77.70                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -90.62                 |                      |
| 21 13 13 00-0062        | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Chrome Wet Pipe Sprinkler Head .....        | 468.31                 | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -26.64                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -60.15                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -95.27                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -108.19                |                      |
| 21 13 13 00-0063        | EA  |     | 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head .....  | 221.21                 | 17.93                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -14.65                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -29.45                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -52.02                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -66.37                 |                      |
| 21 13 13 00-0064        | EA  |     | 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head ..... | 222.34                 | 17.93                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -14.70                 |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -29.59                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -52.22                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -66.57                 |                      |
| <b>21 13 13 00-0065</b> |     |     | <b>Conventional Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small></b>                             |                        |                      |
| 21 13 13 00-0066        | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Brass Wet Pipe Sprinkler Head .....                     | 95.23                  | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.99                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -13.52                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.12                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -41.04                 |                      |
| 21 13 13 00-0067        | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Chrome Wet Pipe Sprinkler Head .....                    | 98.35                  | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.15                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -13.91                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.68                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -41.60                 |                      |
| 21 13 13 00-0068        | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional White Polyester Coated Wet Pipe Sprinkler Head .....    | 100.34                 | 16.14                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.25                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -14.16                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.04                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -41.96                 |                      |
| 21 13 13 00-0069        | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Brass Wet Pipe Sprinkler Head .....   | 110.14                 | 17.93                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.09                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.56                 |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -32.02                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -46.37                 |                      |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 13 13 00-0070 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Chrome Wet Pipe Sprinkler Head .....                 | 113.80                    | 17.93                   |
| For >25 To 50, Deduct   | -3.59                     |                         |
| For >50 To 100, Deduct  | -9.28                     |                         |
| For >100 To 500, Deduct   | -16.02                    |                         |
| For >500 To 1,000, Deduct   | -32.68                    |                         |
| For >1,000, Deduct  | -47.03                    |                         |
| 21 13 13 00-0071 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional White Polyester Coated Wet Pipe Sprinkler Head ..... | 114.37                    | 17.93                   |
| For >25 To 50, Deduct   | -3.59                     |                         |
| For >50 To 100, Deduct  | -9.31                     |                         |
| For >100 To 500, Deduct   | -16.09                    |                         |
| For >500 To 1,000, Deduct   | -32.78                    |                         |
| For >1,000, Deduct  | -47.13                    |                         |
| 21 13 13 00-0072 EA 1/2" NPT Thread, K=5.6, Quick Response, Conventional Stainless Steel Wet Pipe Sprinkler Head .....                        | 320.36                    | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -19.25                    |                         |
| For >100 To 500, Deduct   | -41.66                    |                         |
| For >500 To 1,000, Deduct   | -68.64                    |                         |
| For >1,000, Deduct  | -81.56                    |                         |
| <b>21 13 13 00-0073 Pendant Wet Pipe Sprinkler Heads</b> <small>(21 13 13 00-0024)</small>  |                           |                         |
| See CSI section 21 13 13 00-0209 for escutcheon for recessed pendant sprinkler head.  |                           |                         |
| 21 13 13 00-0074 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head .....   | 95.23                     | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -7.99                     |                         |
| For >100 To 500, Deduct   | -13.52                    |                         |
| For >500 To 1,000, Deduct   | -28.12                    |                         |
| For >1,000, Deduct  | -41.04                    |                         |
| 21 13 13 00-0075 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head .....  | 98.35                     | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -8.15                     |                         |
| For >100 To 500, Deduct   | -13.91                    |                         |
| For >500 To 1,000, Deduct   | -28.68                    |                         |
| For >1,000, Deduct  | -41.60                    |                         |
| 21 13 13 00-0076 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....                        | 100.34                    | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -8.25                     |                         |
| For >100 To 500, Deduct   | -14.16                    |                         |
| For >500 To 1,000, Deduct   | -29.04                    |                         |
| For >1,000, Deduct  | -41.96                    |                         |
| 21 13 13 00-0077 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....                       | 109.03                    | 17.93                   |
| For >25 To 50, Deduct   | -3.59                     |                         |
| For >50 To 100, Deduct  | -9.04                     |                         |
| For >100 To 500, Deduct   | -15.42                    |                         |
| For >500 To 1,000, Deduct   | -31.82                    |                         |
| For >1,000, Deduct  | -46.17                    |                         |
| 21 13 13 00-0078 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head .....                      | 113.80                    | 17.93                   |
| For >25 To 50, Deduct   | -3.59                     |                         |
| For >50 To 100, Deduct  | -9.28                     |                         |
| For >100 To 500, Deduct   | -16.02                    |                         |
| For >500 To 1,000, Deduct   | -32.68                    |                         |
| For >1,000, Deduct  | -47.03                    |                         |
| 21 13 13 00-0079 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....      | 114.77                    | 17.93                   |
| For >25 To 50, Deduct   | -3.59                     |                         |
| For >50 To 100, Deduct  | -9.33                     |                         |
| For >100 To 500, Deduct   | -16.14                    |                         |
| For >500 To 1,000, Deduct   | -32.86                    |                         |
| For >1,000, Deduct  | -47.21                    |                         |
| 21 13 13 00-0080 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Brass Wet Pipe Sprinkler Head .....   | 104.25                    | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -8.44                     |                         |
| For >100 To 500, Deduct   | -14.65                    |                         |
| For >500 To 1,000, Deduct   | -29.74                    |                         |
| For >1,000, Deduct  | -42.66                    |                         |
| 21 13 13 00-0081 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Chrome Wet Pipe Sprinkler Head .....  | 107.37                    | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -8.60                     |                         |
| For >100 To 500, Deduct   | -15.04                    |                         |
| For >500 To 1,000, Deduct   | -30.31                    |                         |
| For >1,000, Deduct  | -43.22                    |                         |
| 21 13 13 00-0082 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....                        | 107.97                    | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -8.63                     |                         |
| For >100 To 500, Deduct   | -15.11                    |                         |
| For >500 To 1,000, Deduct   | -30.41                    |                         |
| For >1,000, Deduct  | -43.33                    |                         |
| 21 13 13 00-0083 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head .....  | 104.25                    | 16.14                   |
| For >25 To 50, Deduct   | -3.23                     |                         |
| For >50 To 100, Deduct  | -8.44                     |                         |
| For >100 To 500, Deduct   | -14.65                    |                         |
| For >500 To 1,000, Deduct   | -29.74                    |                         |
| For >1,000, Deduct  | -42.66                    |                         |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 13 13 00-0084 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head.....   | 107.37                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.60                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.04                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.31                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.22                 |                      |
| 21 13 13 00-0085 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....                                 | 107.97                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.11                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.41                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.33                 |                      |
| 21 13 13 00-0086 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....  | 104.25                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.44                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -14.65                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.74                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -42.66                 |                      |
| 21 13 13 00-0087 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead.....                                       | 107.37                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.60                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.04                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.31                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.22                 |                      |
| 21 13 13 00-0088 | EA  |     | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....                       | 107.97                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.11                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.41                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -43.33                 |                      |
| 21 13 13 00-0089 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....   | 95.23                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.99                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -13.52                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.12                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -41.04                 |                      |
| 21 13 13 00-0090 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead.....  | 98.35                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.15                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -13.91                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.68                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -41.60                 |                      |
| 21 13 13 00-0091 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....                        | 100.34                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.25                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -14.16                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.04                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -41.96                 |                      |
| 21 13 13 00-0092 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head.....                                    | 96.80                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.07                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -13.71                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.40                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -41.32                 |                      |
| 21 13 13 00-0093 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....                                   | 99.01                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.18                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -13.99                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.80                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -41.72                 |                      |
| 21 13 13 00-0094 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....                   | 101.03                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.28                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -14.24                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.16                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -42.08                 |                      |
| 21 13 13 00-0095 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head.....                  | 111.98                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.19                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -15.79                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -32.35                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -46.70                 |                      |
| 21 13 13 00-0096 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....                 | 116.03                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.39                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.30                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.08                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -47.43                 |                      |
| 21 13 13 00-0097 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head..... | 116.03                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.39                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -16.30                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.08                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -47.43                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 13 13 00-0098 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....  | 106.41                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.55                     |                         |
| For >100 To 500, Deduct  | -14.92                    |                         |
| For >500 To 1,000, Deduct  | -30.13                    |                         |
| For >1,000, Deduct   | -43.05                    |                         |
| 21 13 13 00-0099 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....  | 110.49                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.75                     |                         |
| For >100 To 500, Deduct  | -15.43                    |                         |
| For >500 To 1,000, Deduct  | -30.87                    |                         |
| For >1,000, Deduct   | -43.78                    |                         |
| 21 13 13 00-0100 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....  | 116.61                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -9.06                     |                         |
| For >100 To 500, Deduct  | -16.19                    |                         |
| For >500 To 1,000, Deduct  | -31.97                    |                         |
| For >1,000, Deduct   | -44.88                    |                         |
| 21 13 13 00-0101 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....  | 123.31                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -9.39                     |                         |
| For >100 To 500, Deduct  | -17.03                    |                         |
| For >500 To 1,000, Deduct  | -33.17                    |                         |
| For >1,000, Deduct   | -46.09                    |                         |
| 21 13 13 00-0102 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....   | 116.61                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -9.06                     |                         |
| For >100 To 500, Deduct  | -16.19                    |                         |
| For >500 To 1,000, Deduct  | -31.97                    |                         |
| For >1,000, Deduct   | -44.88                    |                         |
| 21 13 13 00-0103 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....   | 123.31                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -9.39                     |                         |
| For >100 To 500, Deduct  | -17.03                    |                         |
| For >500 To 1,000, Deduct  | -33.17                    |                         |
| For >1,000, Deduct   | -46.09                    |                         |
| 21 13 13 00-0104 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....  | 101.12                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.29                     |                         |
| For >100 To 500, Deduct  | -14.25                    |                         |
| For >500 To 1,000, Deduct  | -29.18                    |                         |
| For >1,000, Deduct   | -42.10                    |                         |
| 21 13 13 00-0105 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head .....                                      | 104.64                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.46                     |                         |
| For >100 To 500, Deduct  | -14.69                    |                         |
| For >500 To 1,000, Deduct  | -29.81                    |                         |
| For >1,000, Deduct   | -42.73                    |                         |
| 21 13 13 00-0106 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler<br>Head.....                    | 106.47                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.55                     |                         |
| For >100 To 500, Deduct  | -14.92                    |                         |
| For >500 To 1,000, Deduct  | -30.14                    |                         |
| For >1,000, Deduct   | -43.06                    |                         |
| 21 13 13 00-0107 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Brass Wet Pipe Sprinkler<br>Head.....                   | 110.51                    | 17.93                   |
| For >25 To 50, Deduct  | -3.59                     |                         |
| For >50 To 100, Deduct   | -9.11                     |                         |
| For >100 To 500, Deduct  | -15.61                    |                         |
| For >500 To 1,000, Deduct  | -32.09                    |                         |
| For >1,000, Deduct   | -46.44                    |                         |
| 21 13 13 00-0108 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Chrome Wet Pipe<br>Sprinkler Head.....                  | 113.98                    | 17.93                   |
| For >25 To 50, Deduct  | -3.59                     |                         |
| For >50 To 100, Deduct   | -9.29                     |                         |
| For >100 To 500, Deduct  | -16.04                    |                         |
| For >500 To 1,000, Deduct  | -32.71                    |                         |
| For >1,000, Deduct   | -47.06                    |                         |
| 21 13 13 00-0109 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent White Polyester Coated<br>Wet Pipe Sprinkler Head ..... | 117.34                    | 17.93                   |
| For >25 To 50, Deduct  | -3.59                     |                         |
| For >50 To 100, Deduct   | -9.45                     |                         |
| For >100 To 500, Deduct  | -16.46                    |                         |
| For >500 To 1,000, Deduct  | -33.32                    |                         |
| For >1,000, Deduct   | -47.67                    |                         |
| 21 13 13 00-0110 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler<br>Head.....                      | 103.11                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.38                     |                         |
| For >100 To 500, Deduct  | -14.50                    |                         |
| For >500 To 1,000, Deduct  | -29.54                    |                         |
| For >1,000, Deduct   | -42.45                    |                         |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 21 13 13 00-0111 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....                                   | 106.55                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.56                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -14.93                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -30.16                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -43.07                 |                      |
| 21 13 13 00-0112 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....                   | 108.43                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.65                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.17                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -30.50                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -43.41                 |                      |
| 21 13 13 00-0113 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....                  | 111.98                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.19                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.79                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.35                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.70                 |                      |
| 21 13 13 00-0114 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....                 | 115.60                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.37                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.24                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.01                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.36                 |                      |
| 21 13 13 00-0115 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head..... | 119.09                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.54                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.68                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.63                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.98                 |                      |
| 21 13 13 00-0116 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, Decorative Pendent Chrome Wet Pipe Sprinkler Head.....   | 157.84                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -11.12                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -21.34                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -39.39                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -52.31                 |                      |
| 21 13 13 00-0117 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, Decorative Pendent White Polyester Coated Wet Pipe Sprinkler Head.....   | 157.84                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -11.12                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -21.34                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -39.39                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -52.31                 |                      |
| 21 13 13 00-0118 | EA  |     | 3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....  | 121.89                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.68                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -17.03                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -34.14                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -48.49                 |                      |
| 21 13 13 00-0119 | EA  |     | 3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....   | 124.53                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.81                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -17.36                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -34.61                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -48.96                 |                      |
| 21 13 13 00-0120 | EA  |     | 3/4" NPT Thread, K=14.0, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....   | 124.53                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.81                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -17.36                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -34.61                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -48.96                 |                      |
| 21 13 13 00-0121 | EA  |     | 3/4" NPT Thread, K=11.2, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....  | 118.29                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.50                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.58                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.49                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.84                 |                      |
| 21 13 13 00-0122 | EA  |     | 3/4" NPT Thread, K=11.2, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....   | 120.75                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.89                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.93                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -48.28                 |                      |
| 21 13 13 00-0123 | EA  |     | 3/4" NPT Thread, K=11.2, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....   | 120.75                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.63                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.89                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.93                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -48.28                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 13 13 00-0124 EA 1/2" NPT Thread, K=5.6, Quick Response, Pendent Stainless Steel Wet Pipe Sprinkler Head .....                  | 320.36                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -19.25                    |                         |
| For >100 To 500, Deduct  | -41.66                    |                         |
| For >500 To 1,000, Deduct  | -68.64                    |                         |
| For >1,000, Deduct   | -81.56                    |                         |
| 21 13 13 00-0125 EA 3/4" NPT Thread, K=8.0, Quick Response, Pendent Stainless Steel Wet Pipe Sprinkler Head .....                  | 352.88                    | 17.93                   |
| For >25 To 50, Deduct  | -3.59                     |                         |
| For >50 To 100, Deduct   | -21.23                    |                         |
| For >100 To 500, Deduct  | -45.90                    |                         |
| For >500 To 1,000, Deduct  | -75.72                    |                         |
| For >1,000, Deduct   | -90.07                    |                         |
| 21 13 13 00-0126 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendent Brass Wet Pipe Sprinkler Head .....      | 176.58                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -12.06                    |                         |
| For >100 To 500, Deduct  | -23.69                    |                         |
| For >500 To 1,000, Deduct  | -42.76                    |                         |
| For >1,000, Deduct   | -55.68                    |                         |
| 21 13 13 00-0127 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head .....     | 214.04                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -13.93                    |                         |
| For >100 To 500, Deduct  | -28.37                    |                         |
| For >500 To 1,000, Deduct  | -49.51                    |                         |
| For >1,000, Deduct   | -62.42                    |                         |
| 21 13 13 00-0128 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendent Brass Wet Pipe Sprinkler Head .....             | 370.69                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -21.76                    |                         |
| For >100 To 500, Deduct  | -47.95                    |                         |
| For >500 To 1,000, Deduct  | -77.70                    |                         |
| For >1,000, Deduct   | -90.62                    |                         |
| 21 13 13 00-0129 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendent Chrome Wet Pipe Sprinkler Head .....            | 468.31                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -26.64                    |                         |
| For >100 To 500, Deduct  | -60.15                    |                         |
| For >500 To 1,000, Deduct  | -95.27                    |                         |
| For >1,000, Deduct   | -108.19                   |                         |
| 21 13 13 00-0130 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Brass Wet Pipe Sprinkler Head .....      | 221.21                    | 17.93                   |
| For >25 To 50, Deduct  | -3.59                     |                         |
| For >50 To 100, Deduct   | -14.65                    |                         |
| For >100 To 500, Deduct  | -29.45                    |                         |
| For >500 To 1,000, Deduct  | -52.02                    |                         |
| For >1,000, Deduct   | -66.37                    |                         |
| 21 13 13 00-0131 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head .....     | 222.34                    | 17.93                   |
| For >25 To 50, Deduct  | -3.59                     |                         |
| For >50 To 100, Deduct   | -14.70                    |                         |
| For >100 To 500, Deduct  | -29.59                    |                         |
| For >500 To 1,000, Deduct  | -52.22                    |                         |
| For >1,000, Deduct   | -66.57                    |                         |
| <b>21 13 13 00-0132 Sidewall Wet Pipe Sprinkler Heads</b> <small>(21 13 13 00-0024)</small>  |                           |                         |
| <b>21 13 13 00-0133 Horizontal Sidewall Wet-Pipe Sprinkler Heads</b> <small>(21 13 13 00-0132)</small>                             |                           |                         |
| 21 13 13 00-0134 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....                  | 99.90                     | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.22                     |                         |
| For >100 To 500, Deduct  | -14.10                    |                         |
| For >500 To 1,000, Deduct  | -28.96                    |                         |
| For >1,000, Deduct   | -41.88                    |                         |
| 21 13 13 00-0135 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                 | 102.40                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.35                     |                         |
| For >100 To 500, Deduct  | -14.41                    |                         |
| For >500 To 1,000, Deduct  | -29.41                    |                         |
| For >1,000, Deduct   | -42.33                    |                         |
| 21 13 13 00-0136 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall White Polyester Coated Wet Pipe Sprinkler Head ..... | 106.35                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.55                     |                         |
| For >100 To 500, Deduct  | -14.91                    |                         |
| For >500 To 1,000, Deduct  | -30.12                    |                         |
| For >1,000, Deduct   | -43.04                    |                         |
| 21 13 13 00-0137 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....   | 101.31                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.29                     |                         |
| For >100 To 500, Deduct  | -14.28                    |                         |
| For >500 To 1,000, Deduct  | -29.21                    |                         |
| For >1,000, Deduct   | -42.13                    |                         |
| 21 13 13 00-0138 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....  | 103.86                    | 16.14                   |
| For >25 To 50, Deduct  | -3.23                     |                         |
| For >50 To 100, Deduct   | -8.42                     |                         |
| For >100 To 500, Deduct  | -14.60                    |                         |
| For >500 To 1,000, Deduct  | -29.67                    |                         |
| For >1,000, Deduct   | -42.59                    |                         |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 21 13 13 00-0139 | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head .....                           | 107.89                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.62                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -15.10                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.40                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -43.31                    |                         |
| 21 13 13 00-0140 | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....                          | 110.49                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.75                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -15.43                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -30.87                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -43.78                    |                         |
| 21 13 13 00-0141 | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                         | 114.56                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.96                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -15.93                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -31.60                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -44.52                    |                         |
| 21 13 13 00-0142 | EA  | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....                        | 119.73                    | 17.93                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.57                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -16.76                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.75                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -48.10                    |                         |
| 21 13 13 00-0143 | EA  | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                       | 125.83                    | 17.93                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.88                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -17.52                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -34.85                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -49.20                    |                         |
| 21 13 13 00-0144 | EA  | 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....                          | 119.27                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.19                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -16.52                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -32.45                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -45.36                    |                         |
| 21 13 13 00-0145 | EA  | 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                         | 123.31                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.39                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -17.03                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.17                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -46.09                    |                         |
| 21 13 13 00-0146 | EA  | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....                         | 119.27                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.19                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -16.52                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -32.45                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -45.36                    |                         |
| 21 13 13 00-0147 | EA  | 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                        | 123.31                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.39                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -17.03                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -33.17                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -46.09                    |                         |
| 21 13 13 00-0148 | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....                       | 97.77                     | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.12                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -13.84                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.58                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -41.49                    |                         |
| 21 13 13 00-0149 | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                      | 99.84                     | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.22                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -14.09                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -28.95                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -41.87                    |                         |
| 21 13 13 00-0150 | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head .....                       | 102.41                    | 16.14                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.23                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.35                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -14.42                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -29.41                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -42.33                    |                         |
| 21 13 13 00-0151 | EA  | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Brass Wet<br>Pipe Sprinkler Head .....  | 107.36                    | 17.93                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -8.96                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -15.21                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -31.52                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -45.87                    |                         |
| 21 13 13 00-0152 | EA  | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Chrome Wet<br>Pipe Sprinkler Head ..... | 109.58                    | 17.93                   |
|                  |     | <i>For &gt;25 To 50, Deduct</i>  | -3.59                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -9.07                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>  | -15.49                    |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>  | -31.92                    |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>   | -46.27                    |                         |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 21 13 13 00-0153 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....                 | 111.97                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.19                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.79                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.35                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.70                 |                      |
| 21 13 13 00-0154 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....  | 109.12                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.04                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.43                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -31.84                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.19                 |                      |
| 21 13 13 00-0155 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head..... | 111.42                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.16                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -15.72                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.25                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -46.60                 |                      |
| 21 13 13 00-0156 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....  | 113.91                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.28                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.03                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.70                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.05                 |                      |
| 21 13 13 00-0157 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....                                 | 113.95                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.29                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.04                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -32.71                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.06                 |                      |
| 21 13 13 00-0158 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....                                | 117.34                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.45                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.46                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.32                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.67                 |                      |
| 21 13 13 00-0159 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....                                 | 117.34                 | 17.93                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.59                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.45                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -16.46                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -33.32                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -47.67                 |                      |
| 21 13 13 00-0160 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....   | 180.36                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -12.25                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -24.16                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -43.44                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -56.36                 |                      |
| 21 13 13 00-0161 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall White Wet Pipe Sprinkler Head.....  | 180.36                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -12.25                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -24.16                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -43.44                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -56.36                 |                      |
| 21 13 13 00-0162 | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....                                     | 98.63                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.16                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -13.94                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.73                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.65                 |                      |
| 21 13 13 00-0163 | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....                                    | 98.63                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.16                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -13.94                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.73                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.65                 |                      |
| 21 13 13 00-0164 | EA  |     | 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall White Wet Pipe Sprinkler Head.....                                     | 98.63                  | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.16                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -13.94                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -28.73                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -41.65                 |                      |
| 21 13 13 00-0165 |     |     | <b>Vertical Sidewall Wet-Pipe Sprinkler Heads</b> (21 13 13 00-0132)  |                        |                      |
| 21 13 13 00-0166 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Brass Wet Pipe Sprinkler Head.....  | 103.14                 | 16.14                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -3.23                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -8.39                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -14.51                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -29.54                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -42.46                 |                      |



**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 13 13 00-0167 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Chrome Wet Pipe Sprinkler Head .....                  | 106.26                    | 16.14                   |
| For>25 To 50, Deduct  | -3.23                     |                         |
| For>50 To 100, Deduct   | -8.54                     |                         |
| For>100 To 500, Deduct  | -14.90                    |                         |
| For>500 To 1,000, Deduct  | -30.11                    |                         |
| For>1,000, Deduct   | -43.02                    |                         |
| 21 13 13 00-0168 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall White Wet Pipe Sprinkler Head.....                    | 107.60                    | 16.14                   |
| For>25 To 50, Deduct  | -3.23                     |                         |
| For>50 To 100, Deduct   | -8.61                     |                         |
| For>100 To 500, Deduct  | -15.06                    |                         |
| For>500 To 1,000, Deduct  | -30.35                    |                         |
| For>1,000, Deduct   | -43.26                    |                         |
| <b>21 13 13 00-0169 Concealed Wet Pipe Sprinkler Heads (21 13 13 00-0024)</b>   |                           |                         |
| <b>21 13 13 00-0170 Concealed Pendant Wet-Pipe Sprinkler Heads (21 13 13 00-0169)</b>   |                           |                         |
| 21 13 13 00-0171 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head, Low Lead .....         | 147.42                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -11.68                    |                         |
| For>100 To 500, Deduct  | -20.58                    |                         |
| For>500 To 1,000, Deduct  | -41.17                    |                         |
| For>1,000, Deduct   | -58.39                    |                         |
| 21 13 13 00-0172 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head .....                   | 110.81                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -9.85                     |                         |
| For>100 To 500, Deduct  | -16.00                    |                         |
| For>500 To 1,000, Deduct  | -34.58                    |                         |
| For>1,000, Deduct   | -51.80                    |                         |
| 21 13 13 00-0173 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Concealed Pendent Brass Wet Pipe Sprinkler Head .....    | 112.15                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -9.91                     |                         |
| For>100 To 500, Deduct  | -16.17                    |                         |
| For>500 To 1,000, Deduct  | -34.82                    |                         |
| For>1,000, Deduct   | -52.04                    |                         |
| 21 13 13 00-0174 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Concealed Pendent Brass Wet Pipe Sprinkler Head.....                  | 137.49                    | 23.32                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.66                     |                         |
| For>50 To 100, Deduct   | -11.54                    |                         |
| For>100 To 500, Deduct  | -19.52                    |                         |
| For>500 To 1,000, Deduct  | -40.61                    |                         |
| For>1,000, Deduct   | -59.26                    |                         |
| 21 13 13 00-0175 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Concealed Pendent Brass Wet Pipe Sprinkler Head.....                   | 130.30                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -10.82                    |                         |
| For>100 To 500, Deduct  | -18.44                    |                         |
| For>500 To 1,000, Deduct  | -38.09                    |                         |
| For>1,000, Deduct   | -55.31                    |                         |
| 21 13 13 00-0176 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Concealed Pendent Brass Wet Pipe Sprinkler Head .....                   | 130.30                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -10.82                    |                         |
| For>100 To 500, Deduct  | -18.44                    |                         |
| For>500 To 1,000, Deduct  | -38.09                    |                         |
| For>1,000, Deduct   | -55.31                    |                         |
| 21 13 13 00-0177 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head ..... | 137.49                    | 23.32                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.66                     |                         |
| For>50 To 100, Deduct   | -11.54                    |                         |
| For>100 To 500, Deduct  | -19.52                    |                         |
| For>500 To 1,000, Deduct  | -40.61                    |                         |
| For>1,000, Deduct   | -59.26                    |                         |
| 21 13 13 00-0178 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....   | 121.73                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -10.39                    |                         |
| For>100 To 500, Deduct  | -17.37                    |                         |
| For>500 To 1,000, Deduct  | -36.55                    |                         |
| For>1,000, Deduct   | -53.76                    |                         |
| 21 13 13 00-0179 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....  | 130.30                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -10.82                    |                         |
| For>100 To 500, Deduct  | -18.44                    |                         |
| For>500 To 1,000, Deduct  | -38.09                    |                         |
| For>1,000, Deduct   | -55.31                    |                         |
| 21 13 13 00-0180 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....   | 130.30                    | 21.53                   |
| Note: Excludes coverplate   |                           |                         |
| For>25 To 50, Deduct  | -4.30                     |                         |
| For>50 To 100, Deduct   | -10.82                    |                         |
| For>100 To 500, Deduct  | -18.44                    |                         |
| For>500 To 1,000, Deduct  | -38.09                    |                         |
| For>1,000, Deduct   | -55.31                    |                         |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR            | CSI   | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|---|-----|--|------------------------|----------------------|
| 21 13 13 00-0181 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....                | 123.76                 | 21.53                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.30                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -10.49                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -17.62                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -36.91                 |                      |
|                  |   |     | For >1,000, Deduct   | -54.13                 |                      |
| 21 13 13 00-0182 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Adjustable Concealed Pendent Brass Wet Pipe Sprinkler Head.....                    | 195.70                 | 25.11                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -5.02                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -14.81                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -26.97                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -52.30                 |                      |
|                  |   |     | For >1,000, Deduct   | -72.39                 |                      |
| 21 13 13 00-0183 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....                            | 117.47                 | 21.53                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.30                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -10.18                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -16.84                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -35.78                 |                      |
|                  |   |     | For >1,000, Deduct   | -53.00                 |                      |
| 21 13 13 00-0184 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....                          | 124.10                 | 23.32                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.66                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -10.87                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -17.84                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -38.20                 |                      |
|                  |   |     | For >1,000, Deduct   | -56.85                 |                      |
| 21 13 13 00-0185 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....             | 118.67                 | 21.53                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.30                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -10.24                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -16.99                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -36.00                 |                      |
|                  |   |     | For >1,000, Deduct   | -53.21                 |                      |
| 21 13 13 00-0186 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....           | 125.86                 | 23.32                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.66                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -10.96                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -18.06                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -38.51                 |                      |
|                  |   |     | For >1,000, Deduct   | -57.17                 |                      |
| 21 13 13 00-0187 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....                          | 138.05                 | 23.32                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.66                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -11.57                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -19.59                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -40.71                 |                      |
|                  |   |     | For >1,000, Deduct   | -59.36                 |                      |
| 21 13 13 00-0188 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable Chrome Coverplate..... | 223.48                 | 25.11                |
|                  |   |     | For >25 To 50, Deduct  | -5.02                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -16.20                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -30.45                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -57.30                 |                      |
|                  |   |     | For >1,000, Deduct   | -77.39                 |                      |
| 21 13 13 00-0189 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable White Coverplate.....  | 223.48                 | 25.11                |
|                  |   |     | For >25 To 50, Deduct  | -5.02                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -16.20                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -30.45                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -57.30                 |                      |
|                  |   |     | For >1,000, Deduct   | -77.39                 |                      |
| 21 13 13 00-0190 | <b>Concealed Horizontal Side Wall Wet-Pipe Sprinkler Heads (21 13 13 00-0189)</b> |     |  |                        |                      |
| 21 13 13 00-0191 | EA  |     | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....                   | 157.60                 | 21.53                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.30                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -12.18                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -21.85                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -43.00                 |                      |
|                  |   |     | For >1,000, Deduct   | -60.22                 |                      |
| 21 13 13 00-0192 | EA  |     | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....                 | 176.71                 | 23.32                |
|                  |   |     | Note: Excludes coverplate  |                        |                      |
|                  |   |     | For >25 To 50, Deduct  | -4.66                  |                      |
|                  |   |     | For >50 To 100, Deduct   | -13.50                 |                      |
|                  |   |     | For >100 To 500, Deduct  | -24.42                 |                      |
|                  |   |     | For >500 To 1,000, Deduct  | -47.67                 |                      |
|                  |   |     | For >1,000, Deduct   | -66.32                 |                      |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 21 13 13 00-0193        | EA  | 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Extended Coverage, Concealed Horizontal Sidewall<br>Brass Wet Pipe Sprinkler Head .....   | 127.83                    | 21.53                   |
|                         |     | Note: Excludes coverplate   |                           |                         |
|                         |     | For >25 To 50, Deduct   | -4.30                     |                         |
|                         |     | For >50 To 100, Deduct  | -10.70                    |                         |
|                         |     | For >100 To 500, Deduct   | -18.13                    |                         |
|                         |     | For >500 To 1,000, Deduct   | -37.64                    |                         |
|                         |     | For >1,000, Deduct  | -54.86                    |                         |
| 21 13 13 00-0194        | EA  | 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Concealed Horizontal Sidewall<br>Brass Wet Pipe Sprinkler Head ..... | 130.49                    | 23.32                   |
|                         |     | Note: Excludes coverplate   |                           |                         |
|                         |     | For >25 To 50, Deduct   | -4.66                     |                         |
|                         |     | For >50 To 100, Deduct  | -11.19                    |                         |
|                         |     | For >100 To 500, Deduct   | -18.64                    |                         |
|                         |     | For >500 To 1,000, Deduct   | -39.35                    |                         |
|                         |     | For >1,000, Deduct  | -58.00                    |                         |
| <b>21 13 13 00-0195</b> |     | <b>Institutional Tamper Resistant Wet Pipe Sprinkler Heads</b> (21 13 13 00-0024)   |                           |                         |
| 21 13 13 00-0196        | EA  | 1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head .....  | 348.72                    | 17.93                   |
|                         |     | Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.   |                           |                         |
|                         |     | For >25 To 50, Deduct   | -3.59                     |                         |
|                         |     | For >50 To 100, Deduct  | -21.02                    |                         |
|                         |     | For >100 To 500, Deduct   | -45.38                    |                         |
|                         |     | For >500 To 1,000, Deduct   | -74.97                    |                         |
|                         |     | For >1,000, Deduct  | -89.32                    |                         |
| 21 13 13 00-0197        | EA  | 1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....                                | 340.72                    | 17.93                   |
|                         |     | Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.   |                           |                         |
|                         |     | For >25 To 50, Deduct   | -3.59                     |                         |
|                         |     | For >50 To 100, Deduct  | -20.62                    |                         |
|                         |     | For >100 To 500, Deduct   | -44.38                    |                         |
|                         |     | For >500 To 1,000, Deduct   | -73.53                    |                         |
|                         |     | For >1,000, Deduct  | -87.88                    |                         |
| 21 13 13 00-0198        | EA  | 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler<br>Head .....                         | 156.44                    | 17.93                   |
|                         |     | For >25 To 50, Deduct   | -3.59                     |                         |
|                         |     | For >50 To 100, Deduct  | -11.41                    |                         |
|                         |     | For >100 To 500, Deduct   | -21.35                    |                         |
|                         |     | For >500 To 1,000, Deduct   | -40.36                    |                         |
|                         |     | For >1,000, Deduct  | -54.71                    |                         |
| 21 13 13 00-0199        | EA  | 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe<br>Sprinkler Head .....             | 173.04                    | 17.93                   |
|                         |     | For >25 To 50, Deduct   | -3.59                     |                         |
|                         |     | For >50 To 100, Deduct  | -12.24                    |                         |
|                         |     | For >100 To 500, Deduct   | -23.42                    |                         |
|                         |     | For >500 To 1,000, Deduct   | -43.34                    |                         |
|                         |     | For >1,000, Deduct  | -57.69                    |                         |
| <b>21 13 13 00-0200</b> |     | <b>Wet Pipe Sprinkler Head Accessories</b> (21 13 13 00-0011)   |                           |                         |
| <b>21 13 13 00-0201</b> |     | <b>Sprinkler Adjustable Steel Drop Nipple</b> (21 13 13 00-0200)  |                           |                         |
| 21 13 13 00-0202        | EA  | 1" Male NPT x 1/2" Female NPT x 4.125" Minimum Length To 5.125" Maximum Length, Adjustable Steel Drop<br>Nipple (Anvil M1.150) .....            | 60.03                     | 16.84                   |
|                         |     | For >25 To 50, Deduct   | -1.40                     |                         |
|                         |     | For >50 To 100, Deduct  | -4.41                     |                         |
|                         |     | For >100 To 500, Deduct   | -8.21                     |                         |
|                         |     | For >500 To 1,000, Deduct   | -15.58                    |                         |
|                         |     | For >1,000, Deduct  | -21.19                    |                         |
| 21 13 13 00-0203        | EA  | 1" Male NPT x 1/2" Female NPT x 6.125" Minimum Length To 9.125" Maximum Length, Adjustable Steel Drop<br>Nipple (Anvil M3.150) .....            | 60.03                     | 16.84                   |
|                         |     | For >25 To 50, Deduct   | -1.40                     |                         |
|                         |     | For >50 To 100, Deduct  | -4.41                     |                         |
|                         |     | For >100 To 500, Deduct   | -8.21                     |                         |
|                         |     | For >500 To 1,000, Deduct   | -15.58                    |                         |
|                         |     | For >1,000, Deduct  | -21.19                    |                         |
| 21 13 13 00-0204        | EA  | 1" Male NPT x 1/2" Female NPT x 7.875" Minimum Length To 10.875" Maximum Length, Adjustable Steel Drop<br>Nipple (Anvil ME3.150) .....          | 60.68                     | 16.84                   |
|                         |     | For >25 To 50, Deduct   | -1.40                     |                         |
|                         |     | For >50 To 100, Deduct  | -4.44                     |                         |
|                         |     | For >100 To 500, Deduct   | -8.29                     |                         |
|                         |     | For >500 To 1,000, Deduct   | -15.69                    |                         |
|                         |     | For >1,000, Deduct  | -21.31                    |                         |
| 21 13 13 00-0205        | EA  | 1" Female NPT x 1/2" Female NPT x 3.5" Minimum Length To 4.5" Maximum Length, Adjustable Steel Drop<br>Nipple (Anvil F1.150) .....              | 53.95                     | 16.84                   |
|                         |     | For >25 To 50, Deduct   | -1.40                     |                         |
|                         |     | For >50 To 100, Deduct  | -4.10                     |                         |
|                         |     | For >100 To 500, Deduct   | -7.45                     |                         |
|                         |     | For >500 To 1,000, Deduct   | -14.48                    |                         |
|                         |     | For >1,000, Deduct  | -20.10                    |                         |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 21 13 13 00-0206        | EA  |     | 1" Female NPT x 1/2" Female NPT x 4.5" Minimum Length To 6.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F2.150).....    | 53.95                  | 16.84                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -1.40                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.10                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -7.45                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -14.48                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -20.10                 |                      |
| 21 13 13 00-0207        | EA  |     | 1" Female NPT x 1/2" Female NPT x 5.5" Minimum Length To 8.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.150).....    | 53.95                  | 16.84                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -1.40                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.10                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -7.45                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -14.48                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -20.10                 |                      |
| 21 13 13 00-0208        | EA  |     | 1" Female NPT x 3/4" Female NPT x 7.35" Minimum Length To 10.35" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.175)..... | 60.16                  | 18.31                |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -1.53                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.53                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -8.28                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -16.02                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -22.12                 |                      |
| <b>21 13 13 00-0209</b> |     |     | <b>Sprinkler Head Escutcheon</b> <small>(21 13 13 00-0200)</small>  |                        |                      |
| 21 13 13 00-0210        | EA  |     | 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....                                | 23.86                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.73                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -3.25                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -6.12                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -8.28                  |                      |
| 21 13 13 00-0211        | EA  |     | 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon.....                               | 17.25                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -7.09                  |                      |
| 21 13 13 00-0212        | EA  |     | 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....                                | 17.25                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -7.09                  |                      |
| 21 13 13 00-0213        | EA  |     | 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....                                | 23.86                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.73                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -3.25                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -6.12                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -8.28                  |                      |
| 21 13 13 00-0214        | EA  |     | 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon.....                               | 17.25                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -7.09                  |                      |
| 21 13 13 00-0215        | EA  |     | 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....                                | 17.25                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -7.09                  |                      |
| 21 13 13 00-0216        | EA  |     | 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....                                  | 22.66                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.67                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -3.10                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -5.91                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -8.06                  |                      |
| 21 13 13 00-0217        | EA  |     | 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon.....                                 | 17.25                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -7.09                  |                      |
| 21 13 13 00-0218        | EA  |     | 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....                                  | 17.25                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -7.09                  |                      |
| 21 13 13 00-0219        | EA  |     | 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....                                  | 22.66                  | 6.46                 |
|                         |     |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.67                  |                      |
|                         |     |     | <i>For &gt;100 To 500, Deduct</i>   | -3.10                  |                      |
|                         |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -5.91                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>  | -8.06                  |                      |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 21 13 13 00-0220 | EA  | 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon .....                          | 17.25                     | 6.46                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -7.09                     |                         |
| 21 13 13 00-0221 | EA  | 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon .....                           | 17.25                     | 6.46                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -1.40                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -2.43                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.93                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -7.09                     |                         |
| 21 13 13 00-0222 | EA  | 3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off Chrome Sprinkler Head Recessed<br>Escutcheon ..... | 23.26                     | 6.46                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -1.70                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -3.18                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -6.02                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -8.17                     |                         |
| 21 13 13 00-0223 | EA  | 3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off White Sprinkler Head Recessed<br>Escutcheon .....  | 23.26                     | 6.46                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.54                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -1.70                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -3.18                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -6.02                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -8.17                     |                         |
| 21 13 13 00-0224 | EA  | 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Brass Sprinkler Head Escutcheon .....                                  | 9.82                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.85                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.41                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.99                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.42                     |                         |
| 21 13 13 00-0225 | EA  | 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon .....                                 | 8.99                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.81                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.30                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.84                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.27                     |                         |
| 21 13 13 00-0226 | EA  | 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon .....                                  | 9.21                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.82                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.33                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.88                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.31                     |                         |
| 21 13 13 00-0227 | EA  | 2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Brass Sprinkler Head Escutcheon .....                                  | 9.97                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.86                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.43                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -3.01                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.45                     |                         |
| 21 13 13 00-0228 | EA  | 2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Chrome Sprinkler Head Escutcheon .....                                 | 9.14                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.82                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.32                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.86                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.30                     |                         |
| 21 13 13 00-0229 | EA  | 2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, White Sprinkler Head Escutcheon .....                                  | 9.14                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.82                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.32                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.86                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.30                     |                         |
| 21 13 13 00-0230 | EA  | 2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Bright Brass Sprinkler Head Escutcheon .....                             | 10.83                     | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.90                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.53                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -3.17                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.60                     |                         |
| 21 13 13 00-0231 | EA  | 2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon .....                                   | 9.11                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.81                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.32                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.86                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.29                     |                         |
| 21 13 13 00-0232 | EA  | 2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon .....                                    | 9.11                      | 4.74                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.36                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -0.81                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -1.32                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -2.86                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -4.29                     |                         |
| 21 13 13 00-0233 | EA  | 3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Telescoping<br>Escutcheon ..... | 14.67                     | 6.63                    |
|                  |     | <i>For &gt;25 To 50, Deduct</i>   | -0.50                     |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -1.24                     |                         |
|                  |     | <i>For &gt;100 To 500, Deduct</i>   | -2.09                     |                         |
|                  |     | <i>For &gt;500 To 1,000, Deduct</i>   | -4.35                     |                         |
|                  |     | <i>For &gt;1,000, Deduct</i>  | -6.36                     |                         |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 13 13 00-0234 | EA  |     | 3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Telescoping Escutcheon..... | 14.21                  | 6.63                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.50                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.21                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -2.03                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -4.27                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -6.28                  |                      |
| 21 13 13 00-0235 | EA  |     | 3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, White Sprinkler Head Telescoping Escutcheon.....  | 14.36                  | 6.63                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.50                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.22                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -2.05                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -4.29                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -6.30                  |                      |
| 21 13 13 00-0236 | EA  |     | 3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Telescoping Escutcheon.....  | 14.82                  | 6.63                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.50                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.24                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -2.10                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -4.38                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -6.39                  |                      |
| 21 13 13 00-0237 | EA  |     | 3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Telescoping Escutcheon..... | 14.36                  | 6.63                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.50                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.22                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -2.05                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -4.29                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -6.30                  |                      |
| 21 13 13 00-0238 | EA  |     | 3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, White Sprinkler Head Telescoping Escutcheon.....  | 14.67                  | 6.63                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.50                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.24                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -2.09                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -4.35                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -6.36                  |                      |
| 21 13 13 00-0239 | EA  |     | Flat Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....   | 28.71                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.97                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -3.86                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.00                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.15                  |                      |
| 21 13 13 00-0240 | EA  |     | Flat White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....  | 28.71                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.97                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -3.86                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.00                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.15                  |                      |
| 21 13 13 00-0241 | EA  |     | Conical Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....                                      | 28.71                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.97                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -3.86                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.00                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.15                  |                      |
| 21 13 13 00-0242 | EA  |     | Conical White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....                                       | 28.71                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.97                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -3.86                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.00                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.15                  |                      |
| 21 13 13 00-0243 | EA  |     | Chrome Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head.....                                  | 28.71                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.97                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -3.86                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.00                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.15                  |                      |
| 21 13 13 00-0244 | EA  |     | White Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head.....                                   | 28.71                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.97                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -3.86                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.00                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.15                  |                      |
| 21 13 13 00-0245 | EA  |     | 2-Piece Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....                                      | 32.81                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.18                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -4.37                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.74                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -9.89                  |                      |
| 21 13 13 00-0246 | EA  |     | 2-Piece White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....                                       | 33.77                  | 6.46                 |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -0.54                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -2.23                  |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -4.49                  |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -7.91                  |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -10.06                 |                      |

21 13 13 00-0247 Coverplate For Sprinkler Heads (21 13 13 00-0200)

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 13 13 00-0248 EA Chrome Coverplate For Concealed Pendent Sprinkler Head .....               | 65.56                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -3.89                     |                         |
| For>100 To 500, Deduct   | -8.50                     |                         |
| For>500 To 1,000, Deduct   | -13.87                    |                         |
| For>1,000, Deduct  | -16.31                    |                         |
| 21 13 13 00-0249 EA White Coverplate For Concealed Pendent Sprinkler Head .....                | 33.00                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.26                     |                         |
| For>100 To 500, Deduct   | -4.43                     |                         |
| For>500 To 1,000, Deduct   | -8.01                     |                         |
| For>1,000, Deduct  | -10.45                    |                         |
| 21 13 13 00-0250 EA Specialty Coverplate For Concealed Pendent Sprinkler Head .....            | 47.12                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.97                     |                         |
| For>100 To 500, Deduct   | -6.20                     |                         |
| For>500 To 1,000, Deduct   | -10.56                    |                         |
| For>1,000, Deduct  | -13.00                    |                         |
| 21 13 13 00-0251 EA Brass Coverplate For Concealed Sidewall Sprinkler Head .....               | 43.45                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.78                     |                         |
| For>100 To 500, Deduct   | -5.74                     |                         |
| For>500 To 1,000, Deduct   | -9.90                     |                         |
| For>1,000, Deduct  | -12.34                    |                         |
| 21 13 13 00-0252 EA Chrome Coverplate For Concealed Sidewall Sprinkler Head .....              | 35.14                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.37                     |                         |
| For>100 To 500, Deduct   | -4.70                     |                         |
| For>500 To 1,000, Deduct   | -8.40                     |                         |
| For>1,000, Deduct  | -10.84                    |                         |
| 21 13 13 00-0253 EA White Coverplate For Concealed Sidewall Sprinkler Head .....               | 35.14                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.37                     |                         |
| For>100 To 500, Deduct   | -4.70                     |                         |
| For>500 To 1,000, Deduct   | -8.40                     |                         |
| For>1,000, Deduct  | -10.84                    |                         |
| 21 13 13 00-0254 EA Off-White Coverplate For Concealed Sidewall Sprinkler Head .....           | 43.45                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.78                     |                         |
| For>100 To 500, Deduct   | -5.74                     |                         |
| For>500 To 1,000, Deduct   | -9.90                     |                         |
| For>1,000, Deduct  | -12.34                    |                         |
| 21 13 13 00-0255 EA Black Painted Coverplate For Concealed Sidewall Sprinkler Head .....       | 43.45                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.78                     |                         |
| For>100 To 500, Deduct   | -5.74                     |                         |
| For>500 To 1,000, Deduct   | -9.90                     |                         |
| For>1,000, Deduct  | -12.34                    |                         |
| 21 13 13 00-0256 EA Black Plated Coverplate For Concealed Sidewall Sprinkler Head .....        | 50.04                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -3.11                     |                         |
| For>100 To 500, Deduct   | -6.56                     |                         |
| For>500 To 1,000, Deduct   | -11.08                    |                         |
| For>1,000, Deduct  | -13.52                    |                         |
| 21 13 13 00-0257 EA Bright Brass Coverplate For Concealed Sidewall Sprinkler Head .....        | 50.04                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -3.11                     |                         |
| For>100 To 500, Deduct   | -6.56                     |                         |
| For>500 To 1,000, Deduct   | -11.08                    |                         |
| For>1,000, Deduct  | -13.52                    |                         |
| 21 13 13 00-0258 EA Satin Chrome Coverplate For Concealed Sidewall Sprinkler Head .....        | 50.04                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -3.11                     |                         |
| For>100 To 500, Deduct   | -6.56                     |                         |
| For>500 To 1,000, Deduct   | -11.08                    |                         |
| For>1,000, Deduct  | -13.52                    |                         |
| 21 13 13 00-0259 EA Specialty Coverplate For Concealed Sidewall Sprinkler Head .....           | 43.49                     | 7.32                    |
| For>25 To 50, Deduct   | -0.61                     |                         |
| For>50 To 100, Deduct  | -2.78                     |                         |
| For>100 To 500, Deduct   | -5.74                     |                         |
| For>500 To 1,000, Deduct   | -9.90                     |                         |
| For>1,000, Deduct  | -12.34                    |                         |
| 21 13 13 00-0260 EA White Coverplate For Quick Release Concealed Sidewall Sprinkler Head ..... | 73.04                     | 8.61                    |
| For>25 To 50, Deduct   | -0.72                     |                         |
| For>50 To 100, Deduct  | -4.37                     |                         |
| For>100 To 500, Deduct   | -9.49                     |                         |
| For>500 To 1,000, Deduct   | -15.59                    |                         |
| For>1,000, Deduct  | -18.46                    |                         |

21 13 13 00-0261 Sprinkler Escutcheon Extension Tube (21 13 13 00-0200)



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>21</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                            | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|--|-------------------------|
| 21 13 13 00-0262        | EA  | 2.18" Diameter x 4" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube .....<br>Note: For use with 2 piece escutcheons<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 17.49<br>-0.36<br>-1.23<br>-2.37<br>-4.37<br>-5.80   | 4.31                    |
| 21 13 13 00-0263        | EA  | 2.18" Diameter x 6" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube .....<br>Note: For use with 2 piece escutcheons<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 22.44<br>-0.38<br>-1.50<br>-2.99<br>-5.32<br>-6.83   | 4.52                    |
| 21 13 13 00-0264        | EA  | 2.18" Diameter x 8" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube .....<br>Note: For use with 2 piece escutcheons<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 27.97<br>-0.40<br>-1.79<br>-3.69<br>-6.38<br>-7.96   | 4.74                    |
| 21 13 13 00-0265        | EA  | 2.18" Diameter x 10" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube .....<br>Note: For use with 2 piece escutcheons<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i> | 32.90<br>-0.41<br>-2.06<br>-4.32<br>-7.32<br>-8.97   | 4.95                    |
| <b>21 13 13 00-0266</b> |     | <b>Sprinkler Head Guards</b> <small>(21 13 13 00-0200)</small>  |  |                         |
| 21 13 13 00-0267        | EA  | Universal Sprinkler Head Guard, C-1 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 28.10<br>-1.08<br>-2.48<br>-4.05<br>-8.72<br>-13.02  | 12.92                   |
| 21 13 13 00-0268        | EA  | Dry Pendent Sprinkler Head Guard, C-2 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 30.64<br>-1.08<br>-2.61<br>-4.37<br>-9.18<br>-13.48  | 12.92                   |
| 21 13 13 00-0269        | EA  | Upright Sprinkler Head Guard With Water Shield, C-3 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 34.98<br>-1.08<br>-2.83<br>-4.91<br>-9.96<br>-14.26  | 12.92                   |
| 21 13 13 00-0270        | EA  | Pendent Sprinkler Head Guard With Water Shield, C-5 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 40.33<br>-1.08<br>-3.09<br>-5.58<br>-10.92<br>-15.23 | 12.92                   |
| 21 13 13 00-0271        | EA  | Universal Sprinkler Head Guard, D-1 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 30.54<br>-1.08<br>-2.60<br>-4.36<br>-9.16<br>-13.46  | 12.92                   |
| 21 13 13 00-0272        | EA  | Upright Sprinkler Head Guard With Water Shield, D-3 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 32.19<br>-1.08<br>-2.69<br>-4.56<br>-9.45<br>-13.76  | 12.92                   |
| 21 13 13 00-0273        | EA  | Pendent Sprinkler Head Guard With Large Water Shield, D-4 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 44.46<br>-1.08<br>-3.30<br>-6.10<br>-11.66<br>-15.97 | 12.92                   |
| 21 13 13 00-0274        | EA  | Pendent Sprinkler Head Guard With Small Water Shield, D-5 .....<br><i>For &gt;25 To 50, Deduct</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 500, Deduct</i><br><i>For &gt;500 To 1,000, Deduct</i><br><i>For &gt;1,000, Deduct</i>  | 42.00<br>-1.08<br>-3.18<br>-5.79<br>-11.22<br>-15.53 | 12.92                   |

**21 13 13 00-0275**      **Flexible Sprinkler Piping** (21 13 13 00-0011)  
 Note: 1" Diameter stainless steel flexible pipe with either 1/2" or 3/4" outlet.



|           |              |   |
|-----------|--------------|---|
| <b>21</b> | <b>21</b>    | <b>Fire Suppression</b>                     |
|           | <b>21 10</b> | <b>Water-Based Fire-Suppression Systems</b> |
|           | <b>21 13</b> | <b>Fire-Suppression Sprinkler Systems</b>   |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 13 13 00-0276 | EA  |     | 2' Long, 3/4" Stainless Steel Flexible Sprinkler Piping.....   | 86.15                  | 22.24                |
|                  |     |     | Note: Includes ceiling mounting bracket.   |                        |                      |
|                  |     |     | For >25 To 50, Deduct  | -2.24                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -6.55                  |                      |
|                  |     |     | For >100 To 500, Deduct  | -11.89                 |                      |
|                  |     |     | For >500 To 1,000, Deduct  | -23.13                 |                      |
|                  |     |     | For >1,000, Deduct   | -32.10                 |                      |
| 21 13 13 00-0277 | EA  |     | 3' Long, 3/4" Stainless Steel Flexible Sprinkler Piping.....   | 94.81                  | 22.96                |
|                  |     |     | Note: Includes ceiling mounting bracket.   |                        |                      |
|                  |     |     | For >25 To 50, Deduct  | -2.36                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -7.10                  |                      |
|                  |     |     | For >100 To 500, Deduct  | -13.03                 |                      |
|                  |     |     | For >500 To 1,000, Deduct  | -25.09                 |                      |
|                  |     |     | For >1,000, Deduct   | -34.53                 |                      |
| 21 13 13 00-0278 | EA  |     | 4' Long, 3/4" Stainless Steel Flexible Sprinkler Piping.....   | 103.68                 | 24.39                |
|                  |     |     | Note: Includes ceiling mounting bracket.   |                        |                      |
|                  |     |     | For >25 To 50, Deduct  | -2.49                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -7.68                  |                      |
|                  |     |     | For >100 To 500, Deduct  | -14.21                 |                      |
|                  |     |     | For >500 To 1,000, Deduct  | -27.13                 |                      |
|                  |     |     | For >1,000, Deduct   | -37.10                 |                      |
| 21 13 13 00-0279 | EA  |     | 5' Long, 3/4" Stainless Steel Flexible Sprinkler Piping.....   | 112.91                 | 25.83                |
|                  |     |     | Note: Includes ceiling mounting bracket.   |                        |                      |
|                  |     |     | For >25 To 50, Deduct  | -2.64                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -8.28                  |                      |
|                  |     |     | For >100 To 500, Deduct  | -15.43                 |                      |
|                  |     |     | For >500 To 1,000, Deduct  | -29.29                 |                      |
|                  |     |     | For >1,000, Deduct   | -39.85                 |                      |
| 21 13 13 00-0280 | EA  |     | 6' Long, 3/4" Stainless Steel Flexible Sprinkler Piping.....   | 122.49                 | 28.70                |
|                  |     |     | Note: Includes ceiling mounting bracket.   |                        |                      |
|                  |     |     | For >25 To 50, Deduct  | -2.80                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -8.93                  |                      |
|                  |     |     | For >100 To 500, Deduct  | -16.71                 |                      |
|                  |     |     | For >500 To 1,000, Deduct  | -31.58                 |                      |
|                  |     |     | For >1,000, Deduct   | -42.79                 |                      |
| 21 13 13 00-0281 |     |     | <b>Sprinkler Emergency Cabinets</b> (21 13 13 00-0011)   |                        |                      |
| 21 13 13 00-0282 | EA  |     | 3 Capacity Emergency Sprinkler Cabinet, A4.....  | 150.93                 |                      |
| 21 13 13 00-0283 | EA  |     | 6 Capacity Emergency Sprinkler Cabinet, A4.....  | 158.10                 |                      |
| 21 13 13 00-0284 | EA  |     | 12 Capacity Emergency Sprinkler Cabinet, A4.....   | 168.68                 |                      |
| 21 13 13 00-0285 | EA  |     | 12 Capacity Emergency Sprinkler Cabinet, A3.....   | 535.91                 |                      |
| 21 13 13 00-0286 | EA  |     | Sprinkler Wrench, RC1.....   | 261.88                 |                      |
| 21 13 13 00-0287 | EA  |     | Sprinkler Wrench, FC.....  | 260.87                 |                      |
| 21 13 13 00-0288 | EA  |     | Sprinkler Wrench, W2.....  | 86.62                  |                      |
| 21 13 16         |     |     | <b>Dry-Pipe Sprinkler Systems</b> (21 13)  |                        |                      |
| 21 13 16 00-0001 |     |     | <b>Complete Dry Pipe Sprinkler Systems Assembly</b> (21 13 16)   |                        |                      |
|                  |     |     | Note: Includes all branch line piping (standard weight threaded black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. Not for use where detail is available. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1411 for individual grooved pipe, 23 21 13 23-1484 for individual grooved pipe fittings. |                        |                      |
| 21 13 16 00-0002 |     |     | <b>Light Hazard, Dry-Pipe Sprinkler System Assemblies</b> (21 13 16 00-0001)   |                        |                      |
| 21 13 16 00-0003 | EA  |     | Exposed Piping, Light Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....  | 1,176.80               |                      |
|                  |     |     | Note: Includes branch pipe and fittings, supports and sprinkler heads.   |                        |                      |
|                  |     |     | For Up To 5, Add   | 521.09                 |                      |
|                  |     |     | For >5 To 10, Add  | 243.60                 |                      |
|                  |     |     | For >10 To 20, Add   | 193.23                 |                      |
|                  |     |     | For >20 To 40, Add   | 84.02                  |                      |
|                  |     |     | For >100 To 150, Deduct  | -117.68                |                      |
|                  |     |     | For >150, Deduct   | -235.36                |                      |
|                  |     |     | For Copper Pipe, Add   | 151.34                 |                      |
|                  |     |     | For Polyvinyl Chloride (PVC) Pipe, Deduct  | -210.18                |                      |
| 21 13 16 00-0004 | EA  |     | Concealed Piping, Light Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....  | 1,406.75               |                      |
|                  |     |     | Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.   |                        |                      |
|                  |     |     | For Up To 5, Add   | 631.02                 |                      |
|                  |     |     | For >5 To 10, Add  | 311.48                 |                      |
|                  |     |     | For >10 To 20, Add   | 243.16                 |                      |
|                  |     |     | For >20 To 40, Add   | 104.50                 |                      |
|                  |     |     | For >100 To 150, Deduct  | -140.68                |                      |
|                  |     |     | For >150, Deduct   | -281.35                |                      |
|                  |     |     | For Copper Pipe, Add   | 176.85                 |                      |
|                  |     |     | For Polyvinyl Chloride (PVC) Pipe, Deduct  | -247.19                |                      |
|                  |     |     | For Work In Restricted Working Space, Add  | 204.97                 |                      |
| 21 13 16 00-0005 |     |     | <b>Ordinary Hazard, Dry-Pipe Sprinkler System Assemblies</b> (21 13 16 00-0001)  |                        |                      |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 13 16 00-0006 EA Exposed Piping, Ordinary Hazard, Per Head, Dry-Pipe Sprinkler System Assembly ..... 1,138.47<br>Note: Includes branch pipe and fittings, supports and sprinkler heads.                                   |                           |                         |
| <i>For Up To 5, Add</i>  | 505.13                    |                         |
| <i>For &gt;5 To 10, Add</i>  | 238.19                    |                         |
| <i>For &gt;10 To 20, Add</i>   | 188.46                    |                         |
| <i>For &gt;20 To 40, Add</i>   | 81.79                     |                         |
| <i>For &gt;100 To 150, Deduct</i>  | -113.85                   |                         |
| <i>For &gt;150, Deduct</i>   | -227.69                   |                         |
| <i>For Copper Pipe, Add</i>  | 145.90                    |                         |
| <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>   | -202.82                   |                         |
| 21 13 16 00-0007 EA Concealed Piping, Ordinary Hazard, Per Head, Dry-Pipe Sprinkler System Assembly ..... 1,364.11<br>Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon. |                           |                         |
| <i>For Up To 5, Add</i>  | 613.14                    |                         |
| <i>For &gt;5 To 10, Add</i>  | 305.15                    |                         |
| <i>For &gt;10 To 20, Add</i>   | 237.66                    |                         |
| <i>For &gt;20 To 40, Add</i>   | 101.95                    |                         |
| <i>For &gt;100 To 150, Deduct</i>  | -136.41                   |                         |
| <i>For &gt;150, Deduct</i>   | -272.82                   |                         |
| <i>For Copper Pipe, Add</i>  | 170.87                    |                         |
| <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>   | -239.07                   |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 202.49                    |                         |
| <b>21 13 16 00-0008 Extra Hazard, Dry-Pipe Sprinkler System Assemblies (21 13 16 00-0001)</b>  |                           |                         |
| 21 13 16 00-0009 EA Exposed Piping, Extra Hazard, Per Head, Dry-Pipe Sprinkler System Assembly ..... 1,070.93<br>Note: Includes branch pipe and fittings, supports and sprinkler heads.                                      |                           |                         |
| <i>For Up To 5, Add</i>  | 474.72                    |                         |
| <i>For &gt;5 To 10, Add</i>  | 222.97                    |                         |
| <i>For &gt;10 To 20, Add</i>   | 176.62                    |                         |
| <i>For &gt;20 To 40, Add</i>   | 76.72                     |                         |
| <i>For &gt;100 To 150, Deduct</i>  | -107.09                   |                         |
| <i>For &gt;150, Deduct</i>   | -214.19                   |                         |
| <i>For Copper Pipe, Add</i>  | 137.47                    |                         |
| <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>   | -191.01                   |                         |
| 21 13 16 00-0010 EA Concealed Piping, Extra Hazard, Per Head, Dry-Pipe Sprinkler System Assembly ..... 1,269.57<br>Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.    |                           |                         |
| <i>For Up To 5, Add</i>  | 570.70                    |                         |
| <i>For &gt;5 To 10, Add</i>  | 284.13                    |                         |
| <i>For &gt;10 To 20, Add</i>   | 221.26                    |                         |
| <i>For &gt;20 To 40, Add</i>   | 94.91                     |                         |
| <i>For &gt;100 To 150, Deduct</i>  | -126.96                   |                         |
| <i>For &gt;150, Deduct</i>   | -253.91                   |                         |
| <i>For Copper Pipe, Add</i>  | 159.00                    |                         |
| <i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>   | -222.48                   |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 188.61                    |                         |
| <b>21 13 16 00-0011 Dry-Pipe Sprinkler System Compressors (21 13 16 00-0001)</b>   |                           |                         |
| 21 13 16 00-0012 EA Dry System Air Compressor, 3/4 HP With Alarm Valve Flange With Gauge ..... 2,767.80  |                           | 415.16                  |
| 21 13 16 00-0013 EA Dry System Air Compressor, 1 HP With Alarm Valve Flange With Gauge ..... 2,883.48  |                           | 415.16                  |
| 21 13 16 00-0014 EA Dry System Air Compressor, 1-1/2 HP With Alarm Valve Flange With Gauge ..... 2,981.08  |                           | 415.16                  |
| 21 13 16 00-0015 EA Dry System Air Compressor, 2 HP With Alarm Valve Flange With Gauge ..... 3,360.63  |                           | 415.16                  |
| <b>21 13 16 00-0016 Dry Pipe Sprinkler System Components (21 13 16)</b>  |                           |                         |
| <b>21 13 16 00-0017 Dry Pipe Valves (21 13 16 00-0016)</b>   |                           |                         |
| Note: Excludes trim package See CSI section 21 13 16 00-0022 for Dry Pipe Valve Trim.  |                           |                         |
| 21 13 16 00-0018 EA 2-1/2" Dry Pipe Valve ..... 4,236.93   |                           | 167.79                  |
| 21 13 16 00-0019 EA 3" Dry Pipe Valve ..... 4,717.76   |                           | 192.20                  |
| 21 13 16 00-0020 EA 4" Dry Pipe Valve ..... 5,271.89   |                           | 326.44                  |
| 21 13 16 00-0021 EA 6" Dry Pipe Valve ..... 6,685.31   |                           | 411.86                  |
| <b>21 13 16 00-0022 Dry Pipe Valve Trim (21 13 16 00-0016)</b>   |                           |                         |
| Note: Includes gauges, pressure switch, air supply and drain lines.  |                           |                         |
| 21 13 16 00-0023 EA 2-1/2" Dry Pipe Valve Trim ..... 1,975.40  |                           | 355.12                  |
| 21 13 16 00-0024 EA 3" Dry Pipe Valve Trim ..... 1,975.40  |                           | 355.12                  |
| 21 13 16 00-0025 EA 4" Dry Pipe Valve Trim ..... 2,296.08  |                           | 486.92                  |
| 21 13 16 00-0026 EA 6" Dry Pipe Valve Trim ..... 2,613.37  |                           | 677.29                  |
| <b>21 13 16 00-0027 Recessed Pendent Dry Pipe Sprinkler Heads, Quick Response (21 13 16 00-0016)</b>   |                           |                         |
| 21 13 16 00-0028 EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head ..... 259.93  |                           | 28.42                   |
| <i>For &gt;25 To 50, Deduct</i>  | -4.31                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -17.30                    |                         |
| <i>For &gt;100 To 500, Deduct</i>  | -34.64                    |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -61.42                    |                         |
| <i>For &gt;1,000, Deduct</i>   | -78.64                    |                         |

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 21 13 16 00-0029 | EA  |     | 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....   | 269.94                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -17.80                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -35.90                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -63.23                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -80.45                 |                      |
| 21 13 16 00-0030 | EA  |     | 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....  | 279.96                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -18.30                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -37.15                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -65.03                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -82.25                 |                      |
| 21 13 16 00-0031 | EA  |     | 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 290.00                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -18.81                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -38.40                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -66.84                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -84.06                 |                      |
| 21 13 16 00-0032 | EA  |     | 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 300.02                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -19.31                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -39.66                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -68.64                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -85.86                 |                      |
| 21 13 16 00-0033 | EA  |     | 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 310.04                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -19.81                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -40.91                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -70.44                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -87.66                 |                      |
| 21 13 16 00-0034 | EA  |     | 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 320.05                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -20.31                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -42.16                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -72.25                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -89.47                 |                      |
| 21 13 16 00-0035 | EA  |     | 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 330.09                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -20.81                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -43.41                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -74.05                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -91.27                 |                      |
| 21 13 16 00-0036 | EA  |     | 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 340.10                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -21.31                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -44.67                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -75.86                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -93.08                 |                      |
| 21 13 16 00-0037 | EA  |     | 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 350.12                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -21.81                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -45.92                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -77.66                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -94.88                 |                      |
| 21 13 16 00-0038 | EA  |     | 33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 360.16                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -22.31                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -47.17                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -79.47                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -96.69                 |                      |
| 21 13 16 00-0039 | EA  |     | 36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 370.18                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -22.81                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -48.43                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -81.27                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -98.49                 |                      |
| 21 13 16 00-0040 | EA  |     | 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 380.22                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -23.32                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -49.68                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -83.08                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -100.30                |                      |
| 21 13 16 00-0041 | EA  |     | 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head..... | 390.22                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -23.82                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -50.93                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -84.88                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -102.10                |                      |
| 21 13 16 00-0042 | EA  |     | 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....     | 400.25                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -24.32                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>   | -52.18                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>   | -86.68                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>  | -103.90                |                      |



|   |              |
|---|--------------|
| <b>Fire Suppression</b>                     | <b>21</b>    |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |

12

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>21 13 16 00-0043 Sidewall Dry Pipe Sprinkler Heads, Quick Response</b> <small>(21 13 16 00-0016)</small>            |                           |                         |
| 21 13 16 00-0044 EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head ..... | 257.51                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -17.18                    |                         |
| For >100 To 500, Deduct  | -34.34                    |                         |
| For >500 To 1,000, Deduct  | -60.99                    |                         |
| For >1,000, Deduct   | -78.21                    |                         |
| 21 13 16 00-0045 EA 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....     | 267.55                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -17.68                    |                         |
| For >100 To 500, Deduct  | -35.60                    |                         |
| For >500 To 1,000, Deduct  | -62.80                    |                         |
| For >1,000, Deduct   | -80.02                    |                         |
| 21 13 16 00-0046 EA 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....    | 277.59                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -18.18                    |                         |
| For >100 To 500, Deduct  | -36.85                    |                         |
| For >500 To 1,000, Deduct  | -64.60                    |                         |
| For >1,000, Deduct   | -81.82                    |                         |
| 21 13 16 00-0047 EA 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 287.58                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -18.68                    |                         |
| For >100 To 500, Deduct  | -38.10                    |                         |
| For >500 To 1,000, Deduct  | -66.40                    |                         |
| For >1,000, Deduct   | -83.62                    |                         |
| 21 13 16 00-0048 EA 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 297.61                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -19.19                    |                         |
| For >100 To 500, Deduct  | -39.35                    |                         |
| For >500 To 1,000, Deduct  | -68.21                    |                         |
| For >1,000, Deduct   | -85.43                    |                         |
| 21 13 16 00-0049 EA 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 307.62                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -19.69                    |                         |
| For >100 To 500, Deduct  | -40.61                    |                         |
| For >500 To 1,000, Deduct  | -70.01                    |                         |
| For >1,000, Deduct   | -87.23                    |                         |
| 21 13 16 00-0050 EA 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 317.67                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -20.19                    |                         |
| For >100 To 500, Deduct  | -41.86                    |                         |
| For >500 To 1,000, Deduct  | -71.82                    |                         |
| For >1,000, Deduct   | -89.04                    |                         |
| 21 13 16 00-0051 EA 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 327.69                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -20.69                    |                         |
| For >100 To 500, Deduct  | -43.11                    |                         |
| For >500 To 1,000, Deduct  | -73.62                    |                         |
| For >1,000, Deduct   | -90.84                    |                         |
| 21 13 16 00-0052 EA 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 337.69                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -21.19                    |                         |
| For >100 To 500, Deduct  | -44.36                    |                         |
| For >500 To 1,000, Deduct  | -75.42                    |                         |
| For >1,000, Deduct   | -92.64                    |                         |
| 21 13 16 00-0053 EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 347.71                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -21.69                    |                         |
| For >100 To 500, Deduct  | -45.62                    |                         |
| For >500 To 1,000, Deduct  | -77.22                    |                         |
| For >1,000, Deduct   | -94.44                    |                         |
| 21 13 16 00-0054 EA 33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 357.75                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -22.19                    |                         |
| For >100 To 500, Deduct  | -46.87                    |                         |
| For >500 To 1,000, Deduct  | -79.03                    |                         |
| For >1,000, Deduct   | -96.25                    |                         |
| 21 13 16 00-0055 EA 36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 367.76                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -22.69                    |                         |
| For >100 To 500, Deduct  | -48.12                    |                         |
| For >500 To 1,000, Deduct  | -80.83                    |                         |
| For >1,000, Deduct   | -98.05                    |                         |
| 21 13 16 00-0056 EA 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 397.85                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -24.20                    |                         |
| For >100 To 500, Deduct  | -51.88                    |                         |
| For >500 To 1,000, Deduct  | -86.25                    |                         |
| For >1,000, Deduct   | -103.47                   |                         |
| 21 13 16 00-0057 EA 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....   | 407.87                    | 28.42                   |
| For >25 To 50, Deduct  | -4.31                     |                         |
| For >50 To 100, Deduct   | -24.70                    |                         |
| For >100 To 500, Deduct  | -53.14                    |                         |
| For >500 To 1,000, Deduct  | -88.05                    |                         |
| For >1,000, Deduct   | -105.27                   |                         |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 13 16 00-0058 | EA  |     | 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....  | 411.87                 | 28.42                |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>  | -4.31                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -24.90                 |                      |
|                  |     |     | <i>For &gt;100 To 500, Deduct</i>  | -53.64                 |                      |
|                  |     |     | <i>For &gt;500 To 1,000, Deduct</i>  | -88.77                 |                      |
|                  |     |     | <i>For &gt;1,000, Deduct</i>   | -105.99                |                      |
| <b>21 13 19</b>  |     |     | <b>Preaction Sprinkler Systems (21 13)</b>   |                        |                      |
| 21 13 19 00-0001 |     |     | <b>Complete Preaction Sprinkler Systems Assemblies (21 13 19)</b>  |                        |                      |
|                  |     |     | Note: Includes all branch line piping (standard weight threaded black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. Not for use where detail is available. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1411 for individual grooved pipe, 23 21 13 23-1484 for individual grooved pipe fittings. |                        |                      |
| 21 13 19 00-0002 |     |     | <b>Ordinary Hazard, Preaction Sprinkler System Assemblies (21 13 19 00-0001)</b>   |                        |                      |
| 21 13 19 00-0003 | EA  |     | Exposed Piping, Ordinary Hazard, Per Head, Preaction Sprinkler System Assembly .....   | 1,049.09               |                      |
|                  |     |     | Note: Includes branch pipe and fittings, supports and sprinkler heads.   |                        |                      |
|                  |     |     | <i>For Up To 5, Add</i>  | 469.38                 |                      |
|                  |     |     | <i>For &gt;5 To 10, Add</i>  | 284.43                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 179.52                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 77.32                  |                      |
|                  |     |     | <i>For &gt;100 To 150, Deduct</i>  | -104.91                |                      |
|                  |     |     | <i>For &gt;150, Deduct</i>   | -209.82                |                      |
| 21 13 19 00-0004 |     |     | <b>Extra Hazard, Preaction Sprinkler System Assemblies (21 13 19 00-0001)</b>  |                        |                      |
| 21 13 19 00-0005 | EA  |     | Exposed Piping, Extra Hazard, Per Head, Preaction Sprinkler System Assembly .....  | 976.42                 |                      |
|                  |     |     | Note: Includes branch pipe and fittings, supports and sprinkler heads.   |                        |                      |
|                  |     |     | <i>For Up To 5, Add</i>  | 436.92                 |                      |
|                  |     |     | <i>For &gt;5 To 10, Add</i>  | 264.81                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Add</i>   | 167.17                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Add</i>   | 72.00                  |                      |
|                  |     |     | <i>For &gt;100 To 150, Deduct</i>  | -97.64                 |                      |
|                  |     |     | <i>For &gt;150, Deduct</i>   | -195.28                |                      |
| <b>21 13 26</b>  |     |     | <b>Deluge Fire-Suppression Sprinkler Systems (21 13)</b>   |                        |                      |
| 21 13 26 00-0001 |     |     | <b>Deluge Fire-Suppression Sprinkler Systems Equipment (21 13 26)</b>  |                        |                      |
|                  |     |     | See CSI section 23 21 13 23-0000 for pipe and fittings.  |                        |                      |
| 21 13 26 00-0002 |     |     | <b>Deluge Valves With Required Trim And Release Equipment (21 13 26 00-0001)</b>   |                        |                      |
| 21 13 26 00-0003 | EA  |     | 3" Deluge Valve With Trim And Release Equipment .....  | 7,746.27               | 797.27               |
| 21 13 26 00-0004 | EA  |     | 4" Deluge Valve With Trim And Release Equipment .....  | 8,876.08               | 896.85               |
| 21 13 26 00-0005 | EA  |     | 6" Deluge Valve With Trim And Release Equipment .....  | 11,074.73              | 1,304.53             |
| <b>21 13 39</b>  |     |     | <b>Foam-Water Systems (21 13)</b>  |                        |                      |
| 21 13 39 00-0001 |     |     | <b>Foam Control Valves And Monitors (21 13 39)</b>   |                        |                      |
| 21 13 39 00-0002 |     |     | <b>Control Valves (21 13 39 00-0001)</b>   |                        |                      |
| 21 13 39 00-0003 | EA  |     | 3" Foam Control Valve.....   | 3,826.50               | 797.27               |
| 21 13 39 00-0004 |     |     | <b>Supply Valves (21 13 39 00-0001)</b>  |                        |                      |
| 21 13 39 00-0005 | EA  |     | 2-1/2" Foam Supply Valve .....   | 3,529.78               | 896.85               |
| 21 13 39 00-0006 |     |     | <b>Proportioners (21 13 39 00-0001)</b>  |                        |                      |
| 21 13 39 00-0007 | EA  |     | 8" Foam Proportioner.....  | 3,164.03               | 1,304.53             |
| 21 13 39 00-0008 |     |     | <b>Monitors (21 13 39 00-0001)</b>   |                        |                      |
| 21 13 39 00-0009 | EA  |     | Oscillating Foam Monitor .....   | 3,683.21               | 179.37               |
| <b>21 13 41</b>  |     |     | <b>Fire-Suppression Sprinkler Piping (21 13)</b>   |                        |                      |
|                  |     |     | See CSI section 23 21 13 23-0001 for threaded black steel piping, 23 21 13 23-0374 for welded black steel piping, 23 21 13 23-0813 for flanged black steel pipe fittings, 23 21 13 23-1411 for grooved pipe, 23 21 13 23-1484 for grooved pipe fittings, 33 14 13 13-0001 for ductile iron pipe and fittings.  |                        |                      |
| 21 13 41 00-0001 |     |     | <b>Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41)</b>  |                        |                      |
|                  |     |     | Note: SDR 13.5   |                        |                      |
| 21 13 41 00-0002 |     |     | <b>Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41 00-0001)</b>  |                        |                      |
| 21 13 41 00-0003 | LF  |     | 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....   | 7.20                   | 2.29                 |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.72                   |                      |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    | <b>12</b> |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> |           |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 13 41 00-0004 LF 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                        | 8.41<br>1.85              | 2.44                    |
| 21 13 41 00-0005 LF 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                    | 10.26<br>2.02             | 2.73                    |
| 21 13 41 00-0006 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                    | 12.34<br>2.24             | 3.02                    |
| 21 13 41 00-0007 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                        | 15.47<br>2.50             | 3.30                    |
| 21 13 41 00-0008 LF 2-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                    | 20.62<br>2.84             | 3.73                    |
| 21 13 41 00-0009 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                        | 28.17<br>3.36             | 4.45                    |
| <b>21 13 41 00-0010 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows, Fire Sprinkler Piping</b><br><small>(21 13 41 00-0001)</small>                                    |                           |                         |
| 21 13 41 00-0011 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 36.34<br>10.33            | 13.78                   |
| 21 13 41 00-0012 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>     | 47.32<br>12.96            | 17.22                   |
| 21 13 41 00-0013 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 59.18<br>16.19            | 21.53                   |
| 21 13 41 00-0014 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 67.09<br>17.91            | 23.82                   |
| 21 13 41 00-0015 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>     | 75.79<br>19.97            | 26.69                   |
| 21 13 41 00-0016 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 93.46<br>22.73            | 30.28                   |
| 21 13 41 00-0017 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>     | 113.62<br>26.86           | 35.87                   |
| <b>21 13 41 00-0018 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows, Fire Sprinkler Piping</b><br><small>(21 13 41 00-0001)</small>                                    |                           |                         |
| 21 13 41 00-0019 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 37.01<br>10.33            | 13.78                   |
| 21 13 41 00-0020 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>     | 46.25<br>12.96            | 17.22                   |
| 21 13 41 00-0021 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 58.37<br>16.19            | 21.53                   |
| 21 13 41 00-0022 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 65.80<br>17.91            | 23.82                   |
| 21 13 41 00-0023 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>     | 74.17<br>19.97            | 26.69                   |
| 21 13 41 00-0024 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 89.39<br>22.73            | 30.28                   |
| 21 13 41 00-0025 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>     | 109.14<br>26.86           | 35.87                   |
| <b>21 13 41 00-0026 Chlorinated Polyvinyl Chloride (CPVC) Tees, Fire Sprinkler Piping</b><br><small>(21 13 41 00-0001)</small>  |                           |                         |
| 21 13 41 00-0027 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>               | 54.23<br>15.50            | 20.66                   |
| 21 13 41 00-0028 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>                 | 69.94<br>19.46            | 25.97                   |
| 21 13 41 00-0029 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>             | 88.59<br>24.28            | 32.43                   |
| 21 13 41 00-0030 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>             | 100.80<br>26.86           | 35.87                   |
| 21 13 41 00-0031 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>                 | 116.56<br>29.96           | 39.89                   |
| 21 13 41 00-0032 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>             | 140.77<br>34.10           | 45.49                   |
| 21 13 41 00-0033 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>                 | 166.32<br>40.30           | 53.66                   |
| <b>21 13 41 00-0034 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees, Fire Sprinkler Piping</b><br><small>(21 13 41 00-0001)</small>                                       |                           |                         |
| 21 13 41 00-0035 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>        | 64.74<br>18.12            | 24.25                   |
| 21 13 41 00-0036 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>    | 83.42<br>22.64            | 30.28                   |
| 21 13 41 00-0037 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>    | 93.14<br>25.06            | 33.44                   |
| 21 13 41 00-0038 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>        | 108.61<br>27.98           | 37.31                   |
| 21 13 41 00-0039 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>    | 127.12<br>31.81           | 42.48                   |
| 21 13 41 00-0040 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>        | 149.75<br>37.62           | 50.08                   |

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>21 13 41 00-0041 Chlorinated Polyvinyl Chloride (CPVC) Crosses, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>  |                           |                         |
| 21 13 41 00-0042 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 72.95<br>20.66            | 27.55                   |
| 21 13 41 00-0043 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 91.47<br>25.92            | 34.58                   |
| 21 13 41 00-0044 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 114.96<br>32.37           | 43.19                   |
| 21 13 41 00-0045 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 129.01<br>35.82           | 47.78                   |
| 21 13 41 00-0046 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 149.03<br>39.95           | 53.24                   |
| 21 13 41 00-0047 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 186.11<br>45.46           | 60.55                   |
| <b>21 13 41 00-0048 Chlorinated Polyvinyl Chloride (CPVC) Couplings, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>  |                           |                         |
| 21 13 41 00-0049 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 24.78<br>6.89             | 9.18                    |
| 21 13 41 00-0050 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 33.22<br>9.26             | 12.34                   |
| 21 13 41 00-0051 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 43.93<br>12.14            | 16.21                   |
| 21 13 41 00-0052 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 49.71<br>13.43            | 17.93                   |
| 21 13 41 00-0053 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 56.63<br>14.98            | 19.95                   |
| 21 13 41 00-0054 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 67.07<br>17.05            | 22.67                   |
| 21 13 41 00-0055 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 80.52<br>20.15            | 26.84                   |
| <b>21 13 41 00-0056 Chlorinated Polyvinyl Chloride (CPVC) Caps, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>   |                           |                         |
| 21 13 41 00-0057 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 12.57<br>3.44             | 4.59                    |
| 21 13 41 00-0058 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 20.07<br>5.55             | 7.46                    |
| 21 13 41 00-0059 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 22.74<br>6.07             | 8.04                    |
| 21 13 41 00-0060 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 25.84<br>6.71             | 8.89                    |
| 21 13 41 00-0061 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 30.19<br>7.49             | 10.05                   |
| 21 13 41 00-0062 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 35.95<br>8.53             | 11.34                   |
| 21 13 41 00-0063 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 45.79<br>10.07            | 13.49                   |
| <b>21 13 41 00-0064 Chlorinated Polyvinyl Chloride (CPVC) Reducer Bushing, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>  |                           |                         |
| 21 13 41 00-0065 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 35.43<br>10.20            | 13.63                   |
| 21 13 41 00-0066 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 46.79<br>13.34            | 17.79                   |
| 21 13 41 00-0067 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 51.73<br>14.77            | 19.66                   |
| 21 13 41 00-0068 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 58.63<br>16.49            | 21.96                   |
| 21 13 41 00-0069 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 68.87<br>18.77            | 24.97                   |
| 21 13 41 00-0070 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>  | 83.40<br>22.17            | 29.56                   |
| <b>21 13 41 00-0071 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip x Female Pipe Thread, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>                                      |                           |                         |
| 21 13 41 00-0072 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 30.00<br>7.58             | 10.05                   |
| 21 13 41 00-0073 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 39.03<br>10.20            | 13.63                   |
| <b>21 13 41 00-0074 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>   |                           |                         |
| 21 13 41 00-0075 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>            | 30.00<br>7.58             | 10.05                   |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                     | <b>21</b>    |           |
| <b>Water-Based Fire-Suppression Systems</b> | <b>21 10</b> | <b>12</b> |
| <b>Fire-Suppression Sprinkler Systems</b>   | <b>21 13</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 21 13 41 00-0076        | EA  |     | 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>                                 | 39.03<br>10.20         | 13.63                |
| <b>21 13 41 00-0077</b> |     |     | <b>Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>   |                        |                      |
| 21 13 41 00-0078        | EA  |     | 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i> | 35.40<br>9.30          | 12.34                |
| 21 13 41 00-0079        | EA  |     | 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 45.07<br>11.67         | 15.50                |
| 21 13 41 00-0080        | EA  |     | 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 3/4" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>   | 46.42<br>11.67         | 15.50                |
| <b>21 13 41 00-0081</b> |     |     | <b>Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>   |                        |                      |
| 21 13 41 00-0082        | EA  |     | 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>             | 58.36<br>15.50         | 20.66                |
| 21 13 41 00-0083        | EA  |     | 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>               | 72.11<br>19.46         | 25.97                |
| 21 13 41 00-0084        | EA  |     | 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>           | 93.00<br>24.28         | 32.43                |
| 21 13 41 00-0085        | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>           | 105.48<br>26.86        | 35.87                |
| 21 13 41 00-0086        | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping .....<br><i>For Work In Restricted Working Space, Add</i>               | 122.25<br>29.96        | 39.89                |

**21 20 Fire-Extinguishing Systems** (21)

**21 21 Carbon-Dioxide Fire-Extinguishing Systems** (21 20)

**21 21 16 Carbon-Dioxide Fire-Extinguishing Equipment** (21 21)

**21 21 16 00-0001 Carbon Dioxide Cylinders** (21 21 16)

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 21 21 16 00-0002 | EA |  | Carbon Dioxide Simplex Cylinder, 75 LB.....                   | 4,881.26 | 310.16 |
| 21 21 16 00-0003 | EA |  | Carbon Dioxide Duplex Cylinder, 75 LB (Each).....             | 9,762.51 | 620.32 |
| 21 21 16 00-0004 | EA |  | Carbon Dioxide Cylinder, Heat/Ion Detector, With Bracket..... | 571.85   | 163.26 |
| 21 21 16 00-0005 | EA |  | Carbon Dioxide Cylinder, Dispersion Nozzle.....               | 274.78   | 56.68  |
| 21 21 16 00-0006 | LF |  | Carbon Dioxide Cylinder, 1/2" Rubber Tubing.....              | 60.73    | 22.98  |

**21 22 Clean-Agent Fire-Extinguishing Systems** (21 20)

**21 22 16 Clean-Agent Fire-Extinguishing Equipment** (21 22)

**21 22 16 00-0001 Ansul Fire Control Systems** (21 22 16)

**21 22 16 00-0002 Sapphire® Fire Suppression Systems** (21 22 16 00-0001)

Note: ANSUL® SAPPHIRE® fire suppression systems use 3M™ Novec™ 1230 fire protection fluid for total flooding applications.

**21 22 16 00-0003 Cylinders, Sapphire® Fire Suppression Systems** (21 22 16 00-0002)

|                  |    |  |  |          |        |
|------------------|----|--|--|----------|--------|
| 21 22 16 00-0004 | EA |  | 20 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570635).....<br>Note: 10 to 21 LB tank capacity. Excludes Sapphire agent.    | 1,661.44 | 105.74 |
| 21 22 16 00-0005 | EA |  | 40 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636).....<br>Note: 20 to 46 LB tank capacity. Excludes Sapphire agent.    | 1,887.49 | 105.74 |
| 21 22 16 00-0006 | EA |  | 80 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570637).....<br>Note: 41 to 80 LB tank capacity. Excludes Sapphire agent.    | 1,917.21 | 105.74 |
| 21 22 16 00-0007 | EA |  | 140 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638).....<br>Note: 58 to 138 LB tank capacity. Excludes Sapphire agent.  | 2,717.21 | 140.98 |
| 21 22 16 00-0008 | EA |  | 280 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570639).....<br>Note: 116 to 280 LB tank capacity. Excludes Sapphire agent. | 2,866.64 | 140.98 |
| 21 22 16 00-0009 | EA |  | 390 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570640).....<br>Note: 161 to 388 LB tank capacity. Excludes Sapphire agent. | 3,075.97 | 176.23 |
| 21 22 16 00-0010 | EA |  | 450 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641).....<br>Note: 194 to 459 LB tank capacity. Excludes Sapphire agent. | 3,258.18 | 176.23 |
| 21 22 16 00-0011 | EA |  | 850 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570586).....<br>Note: 375 to 851 LB tank capacity. Excludes Sapphire agent. | 4,889.51 | 211.47 |
| 21 22 16 00-0012 | LB |  | Sapphire Agent, Fire Protection Fluid, Factory Filled (Novec 1230).....<br>Note: Add to empty tank cost.   | 40.37    | 211.47 |

**21 22 16 00-0013 Nozzles, Sapphire® Fire Suppression Systems** (21 22 16 00-0002)





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 22 16 00-0014 EA 1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570515).....                                 | 162.51                    | 17.62                   |
| 21 22 16 00-0015 EA 3/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570516).....                                 | 166.36                    | 17.62                   |
| 21 22 16 00-0016 EA 1" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570517).....                                   | 176.01                    | 17.62                   |
| 21 22 16 00-0017 EA 1-1/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570518).....                               | 182.76                    | 17.62                   |
| 21 22 16 00-0018 EA 1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519).....                               | 192.40                    | 17.62                   |
| 21 22 16 00-0019 EA 2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570520).....                                   | 221.31                    | 17.62                   |
| 21 22 16 00-0020 EA 1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570602).....                                 | 162.51                    | 17.62                   |
| 21 22 16 00-0021 EA 3/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570603).....                                 | 166.36                    | 17.62                   |
| 21 22 16 00-0022 EA 1" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570604).....                                   | 176.01                    | 17.62                   |
| 21 22 16 00-0023 EA 1-1/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570605).....                               | 182.76                    | 17.62                   |
| 21 22 16 00-0024 EA 1-1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570606).....                               | 192.40                    | 17.62                   |
| 21 22 16 00-0025 EA 2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570607).....                                   | 221.31                    | 17.62                   |
| <b>21 22 16 00-0026 Actuation Attachments, Sapphire® Fire Suppression System (21 22 16 00-0002)</b>  |                           |                         |
| 21 22 16 00-0027 EA 7/16-20 To 1/4" NPT, Male Actuation Elbow, Sapphire® Fire Suppression System (Ansul 31810).....                              | 16.52                     | 5.29                    |
| 21 22 16 00-0028 EA 7/16-20 To 1/4" NPT, Male Actuation Tee, Sapphire® Fire Suppression System (Ansul 31811).....                                | 18.18                     | 5.29                    |
| 21 22 16 00-0029 EA 1/4" NPT To 7/16-20, Male Actuation Connector, Sapphire® Fire Suppression System (Ansul 32338).....                          | 27.38                     | 12.34                   |
| 21 22 16 00-0030 EA 16" Actuation Hose, Sapphire® Fire Suppression System (Ansul 73597).....   | 57.77                     | 15.79                   |
| 21 22 16 00-0031 EA 32" Actuation Hose, Sapphire® Fire Suppression System (Ansul 415142).....  | 81.71                     | 15.79                   |
| 21 22 16 00-0032 EA 42" Actuation Hose, Sapphire® Fire Suppression System (Ansul 430815).....  | 96.97                     | 15.79                   |
| 21 22 16 00-0033 EA 24", Stainless Steel, Swivel, Braided Actuation Hose, Sapphire® Fire Suppression System (Ansul 32336).....                   | 52.26                     | 15.79                   |
| 21 22 16 00-0034 EA Pneumatic Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537).....                                  | 379.33                    | 140.98                  |
| 21 22 16 00-0035 EA Local Manual Actuator, Sapphire® Fire Suppression System (Ansul 570549).....   | 350.29                    | 105.74                  |
| 21 22 16 00-0036 EA Electric Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537).....                                   | 737.97                    | 140.98                  |
| <b>21 22 16 00-0037 Nameplates, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>  |                           |                         |
| 21 22 16 00-0038 EA Warning Plate For Use Outside Room, Sapphire® Fire Suppression Systems (Ansul 570580).....                                   | 58.39                     | 17.62                   |
| 21 22 16 00-0039 EA Warning Plate for Use Inside Room, Sapphire® Fire Suppression Systems (Ansul 570581).....                                    | 62.74                     | 17.62                   |
| <b>21 22 16 00-0040 Cylinder Bracketing, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>   |                           |                         |
| 21 22 16 00-0041 EA Tank Bracket Assembly For 20 LB, 40 LB, 50 LB, 80 LB And 90 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)..... | 179.01                    | 52.86                   |
| 21 22 16 00-0042 EA Tank Bracket Assembly For 140 LB, 280 LB, 390 LB And 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085).....    | 187.69                    | 52.86                   |
| 21 22 16 00-0043 EA Tank Bracket Assembly For 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570336).....                               | 198.78                    | 52.86                   |
| <b>21 22 16 00-0044 Check Valves, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>  |                           |                         |
| 21 22 16 00-0045 EA 1" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570566).....  | 429.50                    | 56.11                   |
| 21 22 16 00-0046 EA 2" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570568).....  | 609.38                    | 96.29                   |
| <b>21 22 16 00-0047 Discharge Hose, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>  |                           |                         |
| 21 22 16 00-0048 EA 1" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570539).....   | 146.65                    | 35.25                   |
| 21 22 16 00-0049 EA 2" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570538).....   | 501.44                    | 35.25                   |
| 21 22 16 00-0050 EA 3" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 69990).....  | 425.27                    | 35.25                   |
| 21 22 16 00-0051 EA 3" Discharge Hose And Check Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 69841).....                            | 1,851.48                  | 140.98                  |
| <b>21 22 16 00-0052 Swivel Adaptors, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>   |                           |                         |
| 21 22 16 00-0053 EA 1" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570557).....  | 55.12                     | 24.67                   |
| 21 22 16 00-0054 EA 2" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570558).....  | 91.16                     | 24.67                   |
| 21 22 16 00-0055 EA 3" Flare To 3" Grooved, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69471).....                    | 237.71                    | 17.62                   |
| 21 22 16 00-0056 EA 3" Flare To 3" NPT, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69470).....                        | 309.95                    | 17.62                   |
| <b>21 22 16 00-0057 Pressure Switches, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>   |                           |                         |
| 21 22 16 00-0058 EA Cylinder Low Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 570585).....   | 205.09                    | 70.49                   |
| 21 22 16 00-0059 EA Pressure Trip, Sapphire® Fire Suppression Systems (Ansul 5156).....  | 185.51                    | 29.60                   |
| 21 22 16 00-0060 EA Weather Proof, DPST Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 46250).....                                   | 587.03                    | 123.35                  |
| <b>21 22 16 00-0061 Level Indicators, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>  |                           |                         |
| 21 22 16 00-0062 EA Liquid Level Indicator For 280 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570277).....                              | 625.85                    | 24.67                   |
| 21 22 16 00-0063 EA Liquid Level Indicator For 390 LB And 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570278).....                   | 654.79                    | 24.67                   |
| 21 22 16 00-0064 EA Liquid Level Indicator For 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570589).....                              | 705.81                    | 35.25                   |
| <b>21 22 16 00-0065 Inspection/Maintenance Devices, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>                                    |                           |                         |
| 21 22 16 00-0066 EA Master Tank Pilot Port Male Adaptor, Sapphire® Fire Suppression Systems (Ansul 570342).....                                  | 57.71                     | 21.15                   |
| 21 22 16 00-0067 EA Cylinder Valve Pressure Gauge, Sapphire® Fire Suppression Systems (Ansul 570642).....  | 71.41                     | 24.67                   |
| 21 22 16 00-0068 EA Recharge Top Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570579).....  | 250.22                    | 105.74                  |
| 21 22 16 00-0069 EA 1" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570576).....                                    | 283.29                    | 105.74                  |
| 21 22 16 00-0070 EA 2" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570592).....                                    | 310.77                    | 105.74                  |
| 21 22 16 00-0071 EA 3" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 69891).....                                     | 399.46                    | 105.74                  |



|   |              |           |
|---|--------------|-----------|
| <b>Fire Suppression</b>                       | <b>21</b>    | <b>12</b> |
| <b>Fire-Extinguishing Systems</b>             | <b>21 20</b> |           |
| <b>Clean-Agent Fire-Extinguishing Systems</b> | <b>21 22</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>21 22 16 00-0072 Replacement Parts, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>                     |                           |                         |
| 21 22 16 00-0073 EA O-Ring Kit, Sapphire® Fire Suppression Systems (Ansul 570559) .....   | 70.26                     | 28.20                   |
| 21 22 16 00-0074 EA Recoil Cap, Sapphire® Fire Suppression Systems (Ansul 570553) .....   | 101.28                    | 17.62                   |
| 21 22 16 00-0075 EA Burst Disc Assembly, Sapphire® Fire Suppression Systems (Ansul 570053) .....                                    | 142.33                    | 35.25                   |
| 21 22 16 00-0076 EA Bonnet Assembly, Sapphire® Fire Suppression Systems (Ansul 570543) .....  | 399.58                    | 140.98                  |
| 21 22 16 00-0077 EA Piston Assembly, Sapphire® Fire Suppression Systems (Ansul 570551) .....  | 568.29                    | 140.98                  |
| 21 22 16 00-0078 EA 1" Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570535) .....                                      | 1,751.20                  | 140.98                  |
| <b>21 22 16 00-0079 Inergen® Fire Suppression System</b> <small>(21 22 16 00-0001)</small>  |                           |                         |
| <b>21 22 16 00-0080 Actuation Attachments, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                   |                           |                         |
| 21 22 16 00-0081 EA Flexible Discharge Bend For CV90 And CV98 (200 Bar), Inergen® Fire Suppression System (Ansul 427082) .....      | 198.09                    | 34.92                   |
| 21 22 16 00-0082 EA Metron Protractor Replacement Cartridges, Inergen® Fire Suppression System (Ansul 423958) .....                 | 228.92                    | 37.53                   |
| 21 22 16 00-0083 EA Electric Actuator, Lever, CV98, Inergen® Fire Suppression System (Ansul 423309) .....                           | 409.72                    | 67.93                   |
| 21 22 16 00-0084 EA Electric Actuator For CV90 Valve, Inergen® Fire Suppression System (Ansul 426876) .....                         | 833.05                    | 154.71                  |
| <b>21 22 16 00-0085 Check Valves, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                            |                           |                         |
| 21 22 16 00-0086 EA 2" Bronze Check Valve, Weld Neck Flange, Inergen® Fire Suppression System (Ansul 840794) .....                  | 1,883.72                  | 204.19                  |
| <b>21 22 16 00-0087 Components, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                              |                           |                         |
| 21 22 16 00-0088 EA 1/2" Manifold Relief Valve, Inergen® Fire Suppression System (Ansul 418378) .....                               | 59.01                     | 10.71                   |
| 21 22 16 00-0089 EA Pressure Operated Siren, Inergen® Fire Suppression System (Ansul 419700) .....                                  | 688.40                    | 114.73                  |
| 21 22 16 00-0090 EA 30 Second Pneumatic Time Delay, Inergen® Fire Suppression System (Ansul 54169) .....                            | 2,143.85                  | 358.97                  |
| 21 22 16 00-0091 EA 60 Second Time Delay, Inergen® Fire Suppression System (Ansul 426170) .....                                     | 2,055.11                  | 365.72                  |
| <b>21 22 16 00-0092 Cylinders, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                               |                           |                         |
| Note: Includes CV98 valve. Factory filled with Inergen agent.   |                           |                         |
| 21 22 16 00-0093 EA 200 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426147) .....                          | 1,802.38                  | 328.53                  |
| 21 22 16 00-0094 EA 250 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426148) .....                          | 2,044.46                  | 372.22                  |
| 21 22 16 00-0095 EA 350 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426620) .....                          | 2,900.14                  | 482.36                  |
| 21 22 16 00-0096 EA 435 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426150) .....                          | 2,928.02                  | 589.43                  |
| 21 22 16 00-0097 EA 250 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426257) .....               | 2,129.73                  | 415.04                  |
| 21 22 16 00-0098 EA 350 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426621) .....               | 2,986.04                  | 525.32                  |
| 21 22 16 00-0099 EA 435 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426259) .....               | 3,128.03                  | 633.39                  |
| <b>21 22 16 00-0100 Inspection/Maintenance Devices, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>          |                           |                         |
| 21 22 16 00-0101 EA CV90 Fill Adaptor To Cv98 Valve, Conversion Adapter, Inergen® Fire Suppression System (Ansul 423657) .....      | 67.86                     | 11.94                   |
| 21 22 16 00-0102 EA CV98 To CV90 Conversion Adapter, Cylinder Test Gauge, Inergen® Fire Suppression System (Ansul 426181) .....     | 67.86                     | 11.94                   |
| 21 22 16 00-0103 EA CV90 Pressure Test Assembly Venting Kit, Inergen® Fire Suppression System (Ansul 426954) .....                  | 81.27                     | 13.27                   |
| 21 22 16 00-0104 EA Pressure Test Gauge, Inergen® Fire Suppression System (Ansul 423923) .....                                      | 1,293.23                  | 227.98                  |
| <b>21 22 16 00-0105 Multiple Cylinder Bracketing, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>            |                           |                         |
| 21 22 16 00-0106 EA 13" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418502) ..... | 21.60                     | 3.49                    |
| Note: For single row 435 cubic foot cylinders.  |                           |                         |
| 21 22 16 00-0107 EA 27" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418503) ..... | 30.68                     | 4.99                    |
| Note: For double row 435 cubic foot cylinders.  |                           |                         |
| <b>21 22 16 00-0108 Nameplates, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                              |                           |                         |
| 21 22 16 00-0109 EA Warning Plate, Nameplate, Inside Room With Alarm, Inergen® Fire Suppression System (Ansul 416265) .....         | 23.84                     | 3.90                    |
| 21 22 16 00-0110 EA Warning Plate, Nameplate, Outside Room Without Alarm, Inergen® Fire Suppression System (Ansul 416266) .....     | 22.18                     | 3.90                    |
| <b>21 22 16 00-0111 Nozzle Deflector Shields, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                |                           |                         |
| 21 22 16 00-0112 EA 1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417708) .....                             | 96.32                     | 16.82                   |
| 21 22 16 00-0113 EA 3/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417711) .....                             | 101.14                    | 17.62                   |
| 21 22 16 00-0114 EA 1" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417714) .....                               | 117.35                    | 20.35                   |
| 21 22 16 00-0115 EA 1-1/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417717) .....                           | 131.00                    | 22.98                   |
| 21 22 16 00-0116 EA 1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720) .....                           | 150.26                    | 26.42                   |
| <b>21 22 16 00-0117 Nozzles, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>                                 |                           |                         |
| 21 22 16 00-0118 EA 1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417908) .....                              | 147.70                    | 26.04                   |
| 21 22 16 00-0119 EA 3/8" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417723) .....                              | 153.15                    | 26.81                   |
| 21 22 16 00-0120 EA 1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417362) .....                              | 141.26                    | 24.82                   |
| 21 22 16 00-0121 EA 3/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417363) .....                              | 145.43                    | 26.81                   |
| 21 22 16 00-0122 EA 1" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417364) .....                                | 167.92                    | 29.49                   |
| 21 22 16 00-0123 EA 1-1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417365) .....                            | 179.47                    | 31.40                   |
| 21 22 16 00-0124 EA 1-1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417366) .....                            | 193.28                    | 33.69                   |
| 21 22 16 00-0125 EA 2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426155) .....  | 332.95                    | 58.97                   |
| 21 22 16 00-0126 EA 2-1/2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426156) .....  | 440.17                    | 77.35                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 22 16 00-0127 EA 3" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426137) .....   | 480.03                    | 85.02                   |
| 21 22 16 00-0128 EA 1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426138).....                                     | 172.09                    | 30.61                   |
| 21 22 16 00-0129 EA 3/8" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426139).....                                     | 202.90                    | 35.85                   |
| 21 22 16 00-0130 EA 1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426140).....                                     | 166.94                    | 29.49                   |
| 21 22 16 00-0131 EA 3/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426141).....                                     | 178.20                    | 31.25                   |
| 21 22 16 00-0132 EA 1" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426142) .....                                      | 179.80                    | 31.40                   |
| 21 22 16 00-0133 EA 1-1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426143) .....                                  | 217.05                    | 38.14                   |
| 21 22 16 00-0134 EA 1-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426157) .....                                  | 234.05                    | 41.35                   |
| 21 22 16 00-0135 EA 2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426144) .....                                      | 359.27                    | 63.46                   |
| 21 22 16 00-0136 EA 2-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426145) .....                                  | 419.63                    | 74.29                   |
| 21 22 16 00-0137 EA 3" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426146) .....                                      | 459.76                    | 81.19                   |
| <b>21 22 16 00-0138 Pressure Reducers, Inergen® Fire Suppression System (21 22 16 00-0079)</b>   |                           |                         |
| 21 22 16 00-0139 EA 1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416677) .....                               | 193.28                    | 33.69                   |
| 21 22 16 00-0140 EA 3/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416678) .....                               | 237.29                    | 41.97                   |
| 21 22 16 00-0141 EA 1" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416679) .....                                 | 255.25                    | 45.19                   |
| 21 22 16 00-0142 EA 1-1/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416680).....                              | 359.27                    | 63.46                   |
| 21 22 16 00-0143 EA 1-1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416681).....                              | 392.66                    | 69.54                   |
| 21 22 16 00-0144 EA 2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416682).....                                  | 461.36                    | 81.19                   |
| 21 22 16 00-0145 EA 2-1/2" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417057) .....                            | 536.49                    | 95.19                   |
| 21 22 16 00-0146 EA 3" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417058) .....                                | 634.41                    | 112.59                  |
| 21 22 16 00-0147 EA 2-1/2" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426823) .....                           | 806.83                    | 222.11                  |
| 21 22 16 00-0148 EA 3" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426824) .....                               | 1,030.64                  | 260.40                  |
| 21 22 16 00-0149 EA 4" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426825) .....                               | 1,351.10                  | 436.55                  |
| 21 22 16 00-0150 EA 2-1/2" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426847) .....                       | 788.51                    | 222.11                  |
| 21 22 16 00-0151 EA 3" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426848).....                            | 873.29                    | 155.13                  |
| 21 22 16 00-0152 EA 4" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426849).....                            | 1,351.10                  | 436.55                  |
| 21 22 16 00-0153 EA 2-1/2" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426853) .....                     | 803.93                    | 222.11                  |
| 21 22 16 00-0154 EA 3" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426854) .....                         | 907.65                    | 161.22                  |
| 21 22 16 00-0155 EA 4" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426855) .....                         | 1,327.96                  | 436.55                  |
| <b>21 22 16 00-0156 Pressure Switches, Inergen® Fire Suppression System (21 22 16 00-0079)</b>   |                           |                         |
| 21 22 16 00-0157 EA 3PST, Pressure Switch, Inergen® Fire Suppression System (Ansul 842344) .....   | 912.87                    | 169.26                  |
| <b>21 22 16 00-0158 Releasing Device Equipment, Inergen® Fire Suppression System (21 22 16 00-0079)</b>  |                           |                         |
| 21 22 16 00-0159 EA 12 Or 24 Volt DC, Assembly, Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System<br>(Ansul 17728) .....   | 1,490.37                  | 262.59                  |
| 21 22 16 00-0160 EA 24 Volt DC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System<br>(Ansul 31492) .....   | 2,109.16                  | 349.91                  |
| 21 22 16 00-0161 EA 120 Volt AC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System<br>(Ansul 32525) .....  | 2,228.36                  | 355.94                  |
| 21 22 16 00-0162 EA Cocking Lever For Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 26310).....                 | 104.99                    | 18.10                   |
| 21 22 16 00-0163 EA LT-30-R Nitrogen Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 5373).....                     | 126.71                    | 23.97                   |
| 21 22 16 00-0164 EA Remote Actuator Booster With N2 Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System<br>(Ansul 28939) ..... | 1,191.88                  | 187.34                  |
| <b>21 22 16 00-0165 Replacement Orifice Plates, Inergen® Fire Suppression System (21 22 16 00-0079)</b>  |                           |                         |
| 21 22 16 00-0166 EA 1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418095) .....  | 128.94                    | 17.78                   |
| 21 22 16 00-0167 EA 3/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418096) .....  | 135.19                    | 18.73                   |
| 21 22 16 00-0168 EA 1" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418097).....   | 141.62                    | 19.05                   |
| 21 22 16 00-0169 EA 1-1/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418098).....   | 151.58                    | 19.69                   |
| 21 22 16 00-0170 EA 1-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418099).....   | 158.31                    | 21.59                   |
| 21 22 16 00-0171 EA 2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418100).....   | 159.92                    | 23.34                   |
| 21 22 16 00-0172 EA 2-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426984).....   | 356.68                    | 62.55                   |
| 21 22 16 00-0173 EA 3" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426985) .....  | 359.91                    | 63.19                   |
| 21 22 16 00-0174 EA 4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426986).....   | 461.36                    | 80.96                   |
| <b>21 22 16 00-0175 Single Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)</b>  |                           |                         |
| 21 22 16 00-0176 EA Strap For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427704) .....                   | 167.92                    | 29.49                   |
| 21 22 16 00-0177 EA Channel For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427705) .....                 | 244.21                    | 67.40                   |
| Note: Includes saddle, padding and fasteners.  |                           |                         |
| <b>21 22 16 00-0178 Single Mating Flanges, Flanged Manifold Orifices, Inergen® Fire Suppression System (21 22 16 00-0079)</b>                      |                           |                         |
| 21 22 16 00-0179 EA 2-1/2" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul<br>426856) .....     | 420.33                    | 43.58                   |
| Note: Includes gasket and fasteners.   |                           |                         |
| 21 22 16 00-0180 EA 3" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul<br>426857) .....         | 368.26                    | 65.07                   |
| Note: Includes gasket and fasteners.   |                           |                         |
| 21 22 16 00-0181 EA 4" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul<br>426858) .....         | 817.05                    | 436.55                  |
| Note: Includes gasket and fasteners.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 22 16 00-0182 EA 2-1/2" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426859).....             | 230.85                    | 40.70                   |
| Note: Includes gasket and fasteners.  |                           |                         |
| 21 22 16 00-0183 EA 3" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426860).....                 | 270.97                    | 47.48                   |
| Note: Includes gasket and fasteners.  |                           |                         |
| 21 22 16 00-0184 EA 4" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426861).....                 | 812.18                    | 436.55                  |
| Note: Includes gasket and fasteners.  |                           |                         |
| 21 22 16 00-0185 EA 2-1/2" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426862).....           | 240.47                    | 42.63                   |
| Note: Includes gasket and fasteners.  |                           |                         |
| 21 22 16 00-0186 EA 3" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426863).....               | 281.58                    | 49.68                   |
| Note: Includes gasket and fasteners.  |                           |                         |
| 21 22 16 00-0187 EA 4" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426864).....               | 836.28                    | 436.55                  |
| Note: Includes gasket and fasteners.  |                           |                         |
| 21 22 16 00-0188 EA 2-1/2" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426828).....       | 44.45                     | 3.23                    |
| Note: Includes a stainless steel inner ring and a carbon steel outer ring.  |                           |                         |
| 21 22 16 00-0189 EA 3" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426829).....           | 45.09                     | 3.56                    |
| Note: Includes a stainless steel inner ring and a carbon steel outer ring.  |                           |                         |
| 21 22 16 00-0190 EA 4" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426830).....           | 48.78                     | 4.21                    |
| Note: Includes a stainless steel inner ring and a carbon steel outer ring.  |                           |                         |
| <b>21 22 16 00-0191 Upright And Feet, Cylinder Bracketing, Inergen® Fire Suppression System</b><br><small>(21 22 16 00-0079)</small>                  |                           |                         |
| 21 22 16 00-0192 EA Center Upright Foot, Inergen® Fire Suppression System (Ansul 418508).....   | 29.44                     | 5.18                    |
| 21 22 16 00-0193 EA Double Row, Back-To-Back Rows, Weigh Rail Support, Inergen® Fire Suppression System (Ansul 423027).....                           | 240.48                    | 39.38                   |
| 21 22 16 00-0194 EA 85" High, Cylinder Bracketing For 425 CF And LC100 Cylinders, Inergen® Fire Suppression System (Ansul 426592).....                | 184.59                    | 39.38                   |
| Note: Includes upright, left, right and center.   |                           |                         |
| <b>21 22 16 00-0195 Autopulse® Fire Detection And Control Equipment</b><br><small>(21 22 16 00-0001)</small>  |                           |                         |
| <b>21 22 16 00-0196 Accessory Switches, Autopulse® Fire Detection And Control Equipment</b><br><small>(21 22 16 00-0195)</small>                      |                           |                         |
| 21 22 16 00-0197 EA Abort, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76495).....                                     | 190.07                    | 33.98                   |
| 21 22 16 00-0198 EA Abort, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76494).....                                   | 216.08                    | 38.74                   |
| 21 22 16 00-0199 EA Main/Reserve, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76497).....                              | 274.82                    | 49.22                   |
| 21 22 16 00-0200 EA Main/Reserve, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76496).....                            | 296.02                    | 53.03                   |
| 21 22 16 00-0201 EA Maintenance, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76499).....                               | 370.81                    | 66.68                   |
| 21 22 16 00-0202 EA Maintenance, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76498).....                             | 394.58                    | 70.81                   |
| 21 22 16 00-0203 EA Explosion Proof, Abort Switch, Autopulse® Fire Detection And Control Equipment (Ansul 65956).....                                 | 756.74                    | 136.54                  |
| 21 22 16 00-0204 EA Single Gang, Surface Mount Back Box For Accessory Switches, Autopulse® Fire Detection And Control Equipment (Ansul 76490).....    | 60.49                     | 10.16                   |
| <b>21 22 16 00-0205 Alarm Devices, Autopulse® Fire Detection And Control Equipment</b><br><small>(21 22 16 00-0195)</small>                           |                           |                         |
| 21 22 16 00-0206 EA Selectable Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429698).....                     | 164.70                    | 29.53                   |
| 21 22 16 00-0207 EA Sync Module, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429699).....                                   | 241.44                    | 43.19                   |
| 21 22 16 00-0208 EA Back Box Extender Adapter, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429702).....                     | 22.03                     | 3.94                    |
| <b>21 22 16 00-0209 Annunciators, Autopulse® Fire Detection And Control Equipment</b><br><small>(21 22 16 00-0195)</small>                            |                           |                         |
| 21 22 16 00-0210 EA 80 Character LCD, Annunciator, LCD-80, Autopulse® Fire Detection And Control Equipment (Ansul 417492).....                        | 1,898.94                  | 342.61                  |
| 21 22 16 00-0211 EA 16 Zone Alarm/Trouble, Annunciator Control Module, ACM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417496).....  | 1,591.79                  | 287.03                  |
| 21 22 16 00-0212 EA 16 Zone Alarm/Trouble, Annunciator Expander Module, AEM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417497)..... | 1,235.73                  | 222.90                  |
| 21 22 16 00-0213 EA 32 Zone, Alarm Annunciator Expander Module, AEM-32A, Autopulse® Fire Detection And Control Equipment (Ansul 417500).....          | 1,076.19                  | 194.00                  |
| 21 22 16 00-0214 EA Annunciator Lamp Driver Control Module, LDM-32, Autopulse® Fire Detection And Control Equipment (Ansul 417501).....               | 1,076.19                  | 194.00                  |
| 21 22 16 00-0215 EA Annunciator Lamp Driver Expander Module, LDM-E32, Autopulse® Fire Detection And Control Equipment (Ansul 417502).....             | 862.03                    | 155.27                  |
| 21 22 16 00-0216 EA Annunciator Lamp Driver Relay Module, LDM-R32, Autopulse® Fire Detection And Control Equipment (Ansul 417650).....                | 1,591.79                  | 287.03                  |
| 21 22 16 00-0217 EA 24", Annunciator Lamp Driver Cable, LDM-CBL24, Autopulse® Fire Detection And Control Equipment (Ansul 417651).....                | 323.62                    | 58.11                   |
| 21 22 16 00-0218 EA 48", Annunciator Lamp Driver Cable, LDM-CBL48, Autopulse® Fire Detection And Control Equipment (Ansul 417652).....                | 405.81                    | 73.03                   |
| 21 22 16 00-0219 EA 8 Relay, Annunciator Control Module, ACM-8R, Autopulse® Fire Detection And Control Equipment (Ansul 417653).....                  | 813.87                    | 146.69                  |
| 21 22 16 00-0220 EA Key Switch, AKS-1 Annunciator Accessory, Autopulse® Fire Detection And Control Equipment (Ansul 417660).....                      | 137.42                    | 24.60                   |
| 21 22 16 00-0221 EA Low Profile Annunciator Chassis, CHS-4L, Autopulse® Fire Detection And Control Equipment (Ansul 418576).....                      | 187.17                    | 33.98                   |
| Note: For up to 4 LDM modules.  |                           |                         |
| 21 22 16 00-0222 EA Flush, Single Annunciator Back Box, ABF-1, Autopulse® Fire Detection And Control Equipment (Ansul 417657).....                    | 323.63                    | 58.11                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| <b>21 22 16 00-0223</b>   | <b>Autopulse IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small> |                         |
| 21 22 16 00-0224 EA CHS-4 Chassis, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419586) .....   | 252.66   | 47.31                   |
| 21 22 16 00-0225 EA REL 47K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419639) .....                         | 15.79  | 3.24                    |
| 21 22 16 00-0226 EA REL 4.7K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419640) .....                        | 100.51   | 3.94                    |
| 21 22 16 00-0227 EA REL 2.2K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 407765) .....                        | 17.31  | 3.94                    |
| <b>21 22 16 00-0228</b>   | <b>Autopulse IQ-396X Modules, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>              |                         |
| 21 22 16 00-0229 EA Indicating Circuit Expander, IQ-396X Modules, ICE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419564) .....                                       | 562.14   | 106.05                  |
| 21 22 16 00-0230 EA Control Relay Expander, IQ-396X Modules, CRE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419566) .....  | 336.78   | 63.19                   |
| <b>21 22 16 00-0231</b>   | <b>Batteries And Power Supplies, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>           |                         |
| 21 22 16 00-0232 EA 7 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417692) .....  | 245.04   | 40.64                   |
| 21 22 16 00-0233 EA 12 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417693) .....   | 513.03   | 86.05                   |
| 21 22 16 00-0234 EA 18 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417694) .....   | 579.15   | 97.47                   |
| 21 22 16 00-0235 EA 25 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417695) .....   | 752.29   | 118.75                  |
| 21 22 16 00-0236 EA 55 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417997) .....   | 1,220.73   | 206.07                  |
| 21 22 16 00-0237 EA BB-17, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 418578) .....  | 183.65   | 32.71                   |
| 21 22 16 00-0238 EA BB-25, Grey Cabinet, Autopulse® Fire Detection And Control Equipment (Ansul 428079) .....   | 328.44   | 59.05                   |
| Note: Holds six XP5 modules or 25AH battery pack.   |  |                         |
| 21 22 16 00-0239 EA BB-55, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 419410) .....  | 668.12   | 120.34                  |
| Note: For mounting in BB-55 battery box.  |  |                         |
| 21 22 16 00-0240 EA Battery Charger, CHG-120, Autopulse® Fire Detection And Control Equipment (Ansul 426207) .....  | 1,942.69   | 350.54                  |
| Note: For mounting in BB-55 battery box.  |  |                         |
| 21 22 16 00-0241 EA 120 Volt AC, FCPS-24F, Red Remote Power Supply, Autopulse® Fire Detection And Control Equipment (Ansul 418563) .....  | 1,420.66   | 256.24                  |
| <b>21 22 16 00-0242</b>   | <b>Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>        |                         |
| 21 22 16 00-0243 EA Monitor Module, Intelligent Addressable Devices, FMM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428097) .....                                    | 149.77   | 27.15                   |
| 21 22 16 00-0244 EA Mini Monitor Module, Intelligent Addressable Devices, FMM-101, Autopulse® Fire Detection And Control Equipment (Ansul 428098) .....                             | 140.77   | 26.99                   |
| 21 22 16 00-0245 EA Isolator Module, Intelligent Addressable Devices, ISO-X, Autopulse® Fire Detection And Control Equipment (Ansul 417480) .....                                   | 191.97   | 38.74                   |
| 21 22 16 00-0246 EA 2-Wire Detector Monitor Module, Intelligent Addressable Devices, FZM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428100) .....                    | 281.25   | 50.49                   |
| 21 22 16 00-0247 EA NAC Control Module, Intelligent Addressable Devices, FCM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428101) .....                                | 219.59   | 40.96                   |
| 21 22 16 00-0248 EA Control Relay Module, Intelligent Addressable Devices, FRM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428102) .....                              | 206.75   | 39.38                   |
| 21 22 16 00-0249 EA Flangeless, Analog Addressable Detector Base, Intelligent Addressable Devices, B501, Autopulse® Fire Detection And Control Equipment (Ansul 417487) .....       | 32.94  | 6.28                    |
| 21 22 16 00-0250 EA Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125) .....   | 121.04   | 22.22                   |
| 21 22 16 00-0251 EA Harsh Detector, Analog Addressable Detector Base, Intelligent Addressable Devices, B710HD, Autopulse® Fire Detection And Control Equipment (Ansul 427066) ..... | 120.71   | 21.59                   |
| 21 22 16 00-0252 EA HPX-751 Detector Filter Cover, Intelligent Addressable Devices, FR-FTX, Autopulse® Fire Detection And Control Equipment (Ansul 427067) .....                    | 48.35  | 17.78                   |
| 21 22 16 00-0253 EA Low Profile Trim Ring, Intelligent Addressable Devices, F110, Autopulse® Fire Detection And Control Equipment (Ansul 428138) .....                              | 11.09  | 1.97                    |
| Note: Converts BX501 to low profile base.   |  |                         |
| 21 22 16 00-0254 EA Relay Base, Intelligent Addressable Devices, B224RB, Autopulse® Fire Detection And Control Equipment (Ansul 423945) .....                                       | 116.21   | 20.79                   |
| 21 22 16 00-0255 EA EOL Power Supervision Relay, Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (Ansul 417699) .....                              | 68.12  | 12.26                   |
| 21 22 16 00-0256 EA XP5 Modules Cabinet, Intelligent Addressable Devices, BB-XP, Autopulse® Fire Detection And Control Equipment (Ansul 428078) .....                               | 183.96   | 32.39                   |
| 21 22 16 00-0257 EA BB-25 Chassis, Intelligent Addressable Devices, CHS-6, Autopulse® Fire Detection And Control Equipment (Ansul 428080) .....                                     | 96.32  | 17.14                   |
| <b>21 22 16 00-0258</b>   | <b>Manual Pull Stations, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>                   |                         |
| 21 22 16 00-0259 EA Break Rod Package For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 428661) .....  | 27.54  | 4.61                    |
| 21 22 16 00-0260 EA Key Pull Station For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 418336) .....   | 16.91  | 2.54                    |
| <b>21 22 16 00-0261</b>   | <b>Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>              |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 22 16 00-0262 EA Transmitter Module, 4XTM, Autopulse® Fire Detection And Control Equipment (Ansul 417470) .....<br>Note: Includes municipal box and remote station connection. | 241.44                    | 43.19                   |
| 21 22 16 00-0263 EA Relay/Transmitter Module With 8 Form C Relay Contacts, RTM-8, Autopulse® Fire Detection And Control<br>Equipment (Ansul 417471) .....                         | 723.05                    | 124.15                  |
| 21 22 16 00-0264 EA Universal Digital Alarm COM/XMTR Module, UDACT, Autopulse® Fire Detection And Control Equipment (Ansul<br>419411) .....                                       | 1,387.29                  | 250.20                  |
| 21 22 16 00-0265 EA Ferrite Core For Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (Ansul 419635).....   | 36.90                     | 6.48                    |
| <b>21 22 16 00-0266 Vesda® Aspirating Smoke Detection System (21 22 16 00-0001)</b>   |                           |                         |
| <b>21 22 16 00-0267 Batteries And Power Supplies, Vesda® Aspirating Smoke Detection<br/>System (21 22 16 00-0266)</b>   |                           |                         |
| 21 22 16 00-0268 EA Transformer Only, VSP-TRAN-120, Vesda® Aspirating Smoke Detection System (Ansul 430482).....  | 186.24                    | 30.48                   |
| 21 22 16 00-0269 EA Battery Cabinet, VBC-001, Vesda® Aspirating Smoke Detection System (Ansul 430379) .....   | 432.92                    | 45.95                   |
| 21 22 16 00-0270 EA 120 Volt AC, Single Zone Power Supply With Housing, VPS-100US-120, Vesda® Aspirating Smoke Detection<br>System (Ansul 430374) .....                           | 1,040.12                  | 177.82                  |
| 21 22 16 00-0271 EA 220 Volt AC, Single Zone Power Supply With Housing, VPS-100US-220, Vesda® Aspirating Smoke Detection<br>System (Ansul 430375) .....                           | 1,040.12                  | 177.82                  |
| 21 22 16 00-0272 EA 120 Volt AC, Multi Zone Power Supply, VPS-300US-120, Vesda® Aspirating Smoke Detection System (Ansul<br>430376) .....   | 1,562.55                  | 266.71                  |
| 21 22 16 00-0273 EA 220 Volt AC, Multi Zone Power Supply, VPS-300US-220, Vesda® Aspirating Smoke Detection System (Ansul<br>430377) .....   | 1,562.55                  | 266.71                  |
| 21 22 16 00-0274 EA 48 Volt DC, Multi Zone Power Supply With Housing, VPS-400US-48, Vesda® Aspirating Smoke Detection<br>System (Ansul 430378) .....                              | 2,256.74                  | 339.74                  |
| <b>21 22 16 00-0275 Blank Plates, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)</b>   |                           |                         |
| 21 22 16 00-0276 EA Blank Plate Without VESDA Logo, VSP-300, Vesda® Aspirating Smoke Detection System (Ansul 430459) .....  | 33.54                     | 5.71                    |
| 21 22 16 00-0277 EA Blank Plate With VESDA Logo, VSP-000, Vesda® Aspirating Smoke Detection System (Ansul 430458) .....   | 49.06                     | 5.71                    |
| 21 22 16 00-0278 EA Blank Plate, EMC Painted Without Logo, VSP-200, Vesda® Aspirating Smoke Detection System (Ansul 430484) .....   | 72.51                     | 10.80                   |
| 21 22 16 00-0279 EA Single Blank Plate, VRE-001, Vesda® Aspirating Smoke Detection System (Ansul 430446) .....  | 110.47                    | 12.07                   |
| 21 22 16 00-0280 EA Double Blank Plate, VRE-002, Vesda® Aspirating Smoke Detection System (Ansul 430447).....   | 143.56                    | 24.13                   |
| 21 22 16 00-0281 EA Blank Plate Without FOK LED's And Logo, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul<br>430480) .....   | 258.55                    | 30.48                   |
| <b>21 22 16 00-0282 Detectors, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)</b>  |                           |                         |
| 21 22 16 00-0283 EA LaserPLUS, Detector Only, Enclosure, VLP-000, Vesda® Aspirating Smoke Detection System (Ansul 430350).....<br>Note: Includes 3 blank plates.                  | 7,932.85                  | 1,492.34                |
| 21 22 16 00-0284 EA LaserPLUS Detector, VLP-012, Vesda® Aspirating Smoke Detection System (Ansul 430354) .....  | 10,089.02                 | 1,841.62                |
| 21 22 16 00-0285 EA LaserPLUS Detector, VLP-010, Vesda® Aspirating Smoke Detection System (Ansul 430356).....<br>Note: Includes centrally mounted LCD programmer.                 | 9,131.89                  | 1,682.86                |
| 21 22 16 00-0286 EA 7-Relay Version, LaserSCANNER Detector Only, VLS-200, Vesda® Aspirating Smoke Detection System (Ansul<br>430357) .....  | 12,636.79                 | 2,222.65                |
| 21 22 16 00-0287 EA 12-Relay Version, LaserSCANNER Detector Only, VLS-300, Vesda® Aspirating Smoke Detection System (Ansul<br>430358) .....                                       | 13,309.39                 | 2,349.65                |
| 21 22 16 00-0288 EA 7-Relay Version, LaserSCANNER Detector Only, VLS-600, Vesda® Aspirating Smoke Detection System (Ansul<br>430359) .....  | 12,779.63                 | 2,254.39                |
| 21 22 16 00-0289 EA 12-Relay Version, LaserSCANNER Detector Only, VLS-700, Vesda® Aspirating Smoke Detection System (Ansul<br>430360) .....                                       | 13,497.12                 | 2,381.40                |
| 21 22 16 00-0290 EA 7-Relay, LaserSCANNER Detector Only, VLS-204, Vesda® Aspirating Smoke Detection System (Ansul 430361) .....   | 13,896.93                 | 2,476.66                |
| 21 22 16 00-0291 EA 12-Relay, LaserSCANNER Detector, VLS-304, Vesda® Aspirating Smoke Detection System (Ansul 430363) .....   | 14,510.09                 | 2,603.67                |
| 21 22 16 00-0292 EA 7-Relay, LaserSCANNER Detector, VLS-214, Vesda® Aspirating Smoke Detection System (Ansul 430365).....<br>Note: Includes centrally mounted programmer module.  | 15,248.27                 | 2,730.67                |
| 21 22 16 00-0293 EA 12-Relay, LaserSCANNER Detector, VLS-314, Vesda® Aspirating Smoke Detection System (Ansul 430367) .....   | 15,904.80                 | 2,857.68                |
| 21 22 16 00-0294 EA 12-Relay, LaserSCANNER Detector, VLS-310, Vesda® Aspirating Smoke Detection System (Ansul 430369) .....   | 14,904.73                 | 2,603.67                |
| <b>21 22 16 00-0295 Displays, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)</b>   |                           |                         |
| 21 22 16 00-0296 EA VRT-200 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430381).....<br>Note: Includes a remote termination card and 7 relays.     | 2,358.62                  | 349.28                  |
| 21 22 16 00-0297 EA VRT-400 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430385) .....   | 2,369.24                  | 349.28                  |
| 21 22 16 00-0298 EA VRT-600 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430383).....<br>Note: Includes a remote termination card without relays.   | 2,136.66                  | 317.52                  |
| 21 22 16 00-0299 EA VRT-700 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430387) .....   | 2,148.99                  | 317.52                  |
| 21 22 16 00-0300 EA VRT-800 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430389).....<br>Note: Includes a remote termination card and 12 relays.     | 2,650.30                  | 381.03                  |
| 21 22 16 00-0301 EA VRT-K00 Display, Compact Version Without Relays, Vesda® Aspirating Smoke Detection System (Ansul 430391).....   | 2,255.59                  | 330.22                  |
| 21 22 16 00-0302 EA VRT-J00 Display, Compact Version With 7 Relays, Vesda® Aspirating Smoke Detection System (Ansul 430393) .....   | 2,473.98                  | 370.86                  |

**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 21 22 16 00-0303 |     |     | <b>Intelligent Addressable Devices, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>  |                        |                      |
| 21 22 16 00-0304 | EA  |     | LaserCOMPACT (VN), VESDAnet Version Plus Relay Output, VLC-505, Vesda® Aspirating Smoke Detection System (Ansul 430370) .....                             | 6,020.01               | 1,047.82             |
| 21 22 16 00-0305 | EA  |     | LaserCOMPACT (RO), Relay Only Version, VLC-500, Vesda® Aspirating Smoke Detection System (Ansul 430372) .....   | 4,944.97               | 838.26               |
| 21 22 16 00-0306 | EA  |     | Programmer With Remote Termination Card, VRT-100, Vesda® Aspirating Smoke Detection System (Ansul 430380) .....   | 1,759.47               | 317.52               |
| 21 22 16 00-0307 | EA  |     | VESDAnet Socket, VRT-300, Vesda® Aspirating Smoke Detection System (Ansul 430395) .....   | 1,255.00               | 206.39               |
| 21 22 16 00-0308 | EA  |     | System Relay Module, VRT-S07, Vesda® Aspirating Smoke Detection System (Ansul 430399) .....   | 1,743.60               | 278.15               |
| 21 22 16 00-0309 | EA  |     | PC-Link High-Level Interface, VHX-0200, Vesda® Aspirating Smoke Detection System (Ansul 430442).....<br>Note: Interface connects PC and LaserPLUS system. | 2,547.87               | 342.92               |
| 21 22 16 00-0310 | EA  |     | Modem Cable, PC-HLI To Modem Connection, VHX-00090, Vesda® Aspirating Smoke Detection System (Ansul 430443) .....   | 328.35                 | 51.44                |
| 21 22 16 00-0311 | EA  |     | Hand-Held Programmer, VHH-1000, Vesda® Aspirating Smoke Detection System (Ansul 430444) .....   | 2,181.76               | 317.52               |
| 21 22 16 00-0312 | EA  |     | Programmer Module, VSP-001, Vesda® Aspirating Smoke Detection System (Ansul 430460) .....   | 1,577.66               | 263.55               |
| 21 22 16 00-0313 | EA  |     | VESDAnet Socket Kit, VSP-003, Vesda® Aspirating Smoke Detection System (Ansul 430463) .....   | 1,237.07               | 203.21               |
| 21 22 16 00-0314 | EA  |     | Standard Display Module, VSP-002, Vesda® Aspirating Smoke Detection System (Ansul 430461) .....   | 1,579.97               | 263.55               |
| 21 22 16 00-0315 | EA  |     | Scanner Display Module, VSP-004, Vesda® Aspirating Smoke Detection System (Ansul 430464).....   | 1,577.66               | 263.55               |
| 21 22 16 00-0316 | EA  |     | Remote Display Module, Compact (VN), VSP-502, Vesda® Aspirating Smoke Detection System (Ansul 430487) .....   | 1,553.17               | 247.67               |
| 21 22 16 00-0317 | EA  |     | Filter Cartridge, VSP-005, Vesda® Aspirating Smoke Detection System (Ansul 430466).....   | 183.66                 | 22.22                |
| 21 22 16 00-0318 | EA  |     | Detector Chassis Assembly, VSP-006, Vesda® Aspirating Smoke Detection System (Ansul 430467).....  | 7,516.34               | 1,219.28             |
| 21 22 16 00-0319 | EA  |     | Scanner Chassis Assembly, VSP-009, Vesda® Aspirating Smoke Detection System (Ansul 430470).....   | 13,102.06              | 2,133.74             |
| 21 22 16 00-0320 | EA  |     | Aspirator For LaserPLUS And Laser Scanner, VSP-015, Vesda® Aspirating Smoke Detection System (Ansul 430475) .....   | 1,019.65               | 158.76               |
| 21 22 16 00-0321 | EA  |     | Filter Cover, VSP-019, Vesda® Aspirating Smoke Detection System (Ansul 430477) .....  | 22.98                  | 3.18                 |
| 21 22 16 00-0322 | EA  |     | Cover Screws, 17606, Vesda® Aspirating Smoke Detection System (Ansul 430478).....   | 12.36                  | 0.63                 |
| 21 22 16 00-0323 | EA  |     | US Power Supply Circuit Board Only, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430481) .....  | 564.15                 | 92.08                |
| 21 22 16 00-0324 | EA  |     | Relay Processor Module (DRP), VSP-102, Vesda® Aspirating Smoke Detection System (Ansul 430483).....   | 683.59                 | 111.76               |
| 21 22 16 00-0325 | EA  |     | Aspirator, LaserCOMPACT, VSP-501, Vesda® Aspirating Smoke Detection System (Ansul 430486) .....   | 987.12                 | 161.94               |
| 21 22 16 00-0326 | EA  |     | RO-Cable For LaserCOMPACT Relay Only, (RO) Version, VSP-509, Vesda® Aspirating Smoke Detection System (Ansul 430488) .....                                | 145.59                 | 24.13                |
| 21 22 16 00-0327 | EA  |     | Miniature Sampling Point, E700-SP, Vesda® Aspirating Smoke Detection System (Ansul 430502).....   | 23.43                  | 5.08                 |
| 21 22 16 00-0328 |     |     | <b>Labels And Decals, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>  |                        |                      |
| 21 22 16 00-0329 | EA  |     | Sampling Point Labels, Roll Of 35, E700-SP-DCL-PIPE, Vesda® Aspirating Smoke Detection System (Ansul 430509) .....  | 20.86                  | 3.81                 |
| 21 22 16 00-0330 | EA  |     | Round Point Label, Roll Of 50, E700-SP-DCL-PNT, Vesda® Aspirating Smoke Detection System (Ansul 430505) .....   | 22.15                  | 4.44                 |
| 21 22 16 00-0331 | EA  |     | Red, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLR, Vesda® Aspirating Smoke Detection System (Ansul 430506) .....                         | 33.54                  | 5.71                 |
| 21 22 16 00-0332 | EA  |     | Grey, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLG, Vesda® Aspirating Smoke Detection System (Ansul 430507) .....                        | 33.58                  | 5.71                 |
| 21 22 16 00-0333 | EA  |     | Sampling Point Decal, Wrap-Around Style, Roll Of 200, E700-SP-DCL, Vesda® Aspirating Smoke Detection System (Ansul 430508) .....                          | 122.18                 | 21.59                |
| 21 22 16 00-0334 |     |     | <b>Mounting Hardware, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>  |                        |                      |
| 21 22 16 00-0335 | EA  |     | Remote Mounting Single Box With Escutcheon Only, VKT-000, Vesda® Aspirating Smoke Detection System (Ansul 430456) .....                                   | 297.70                 | 45.72                |
| 21 22 16 00-0336 | EA  |     | Recessed Mounting Kit For Remote Single Boxes, VSP-012, Vesda® Aspirating Smoke Detection System (Ansul 430472) .....                                     | 400.77                 | 60.96                |
| 21 22 16 00-0337 | EA  |     | Recessed Mounting Kit For VLP Or VLS Detector, VSP-011, Vesda® Aspirating Smoke Detection System (Ansul 430471) .....                                     | 412.30                 | 66.68                |
| 21 22 16 00-0338 | EA  |     | Remote 19 Sub Rack With 4 Blank Plates, VSR-0000, Vesda® Aspirating Smoke Detection System (Ansul 430457) .....   | 967.28                 | 95.25                |
| 21 22 16 00-0339 | EA  |     | Sub Rack Enclosure, VRE-100, Vesda® Aspirating Smoke Detection System (Ansul 430445).....   | 1,460.52               | 209.56               |
| 21 22 16 00-0340 |     |     | <b>Pipe And Fittings, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>  |                        |                      |
| 21 22 16 00-0341 | LF  |     | 3/4", Orange Chlorinated Polyvinyl Chloride (CPVC) Pipe, Vesda® Aspirating Smoke Detection System (Ansul 430491) .....                                    | 7.17                   | 2.29                 |
| 21 22 16 00-0342 | EA  |     | 3/4", End Cap, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430497) .....                           | 12.67                  | 4.59                 |
| 21 22 16 00-0343 | EA  |     | 3/4", 45 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430494) .....                   | 35.61                  | 13.78                |
| 21 22 16 00-0344 | EA  |     | 3/4", 90 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430493) .....                   | 36.48                  | 13.78                |
| 21 22 16 00-0345 | EA  |     | 3/4", Coupling, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430495) .....                          | 24.94                  | 9.18                 |
| 21 22 16 00-0346 | EA  |     | 3/4", Union, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430496) .....                             | 39.51                  | 13.78                |
| 21 22 16 00-0347 | EA  |     | 3/4", Tee, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430498) .....                               | 54.38                  | 20.66                |
| 21 22 16 00-0348 | EA  |     | 3/4" x 1/2" FPT, Tee, Chlorinated Polyvinyl Chloride (CPVC), Vesda® Aspirating Smoke Detection System (Ansul 430499) .....                                | 66.91                  | 24.25                |
| 21 22 16 00-0349 | LF  |     | 1/2" OD x 3/8" ID, Black Polyethylene Tubing, Vesda® Aspirating Smoke Detection System (Ansul 430500) .....   | 6.22                   | 2.30                 |
| 21 22 16 00-0350 | EA  |     | Pipe Adapters, Metric-To-Imperial, VSP-021, Vesda® Aspirating Smoke Detection System (Ansul 430479).....  | 23.49                  | 6.99                 |
| 21 22 16 00-0351 | EA  |     | Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Plastic, E700-CAP KIT, Vesda® Aspirating Smoke Detection System (Ansul 430503) .....           | 26.82                  | 5.08                 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 22 16 00-0352 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Brass, Vesda® Aspirating Smoke Detection System (Ansul 430504).....  | 38.31                     | 6.99                    |
| <b>21 22 16 00-0353 Remote Termination And Relay Cards, Vesda® Aspirating Smoke Detection System</b> (21 22 16 00-0266)                             |                           |                         |
| 21 22 16 00-0354 EA VRT-500, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430396)..... | 1,707.90                  | 243.86                  |
| Note: Remote box includes 7 relays for VLP/VLC.   |                           |                         |
| 21 22 16 00-0355 EA VN, Compact Termination Card, VSP-515, Vesda® Aspirating Smoke Detection System (Ansul 430490).....                             | 1,758.16                  | 280.69                  |
| 21 22 16 00-0356 EA 12-Relay, Remote Termination Card, VSP-208, Vesda® Aspirating Smoke Detection System (Ansul 430485).....                        | 1,065.03                  | 171.46                  |
| 21 22 16 00-0357 EA RO, Compact Termination Card, VSP-510, Vesda® Aspirating Smoke Detection System (Ansul 430489).....                             | 1,215.74                  | 193.69                  |
| 21 22 16 00-0358 EA VRT-501, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430397)..... | 1,707.90                  | 243.86                  |
| Note: Remote box includes 7 relays for VLS.   |                           |                         |
| 21 22 16 00-0359 EA VRT-900 Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430398).....  | 2,053.68                  | 280.69                  |
| Note: Remote box includes 12 relays for VLS.  |                           |                         |
| 21 22 16 00-0360 EA Remote Termination Card Without Relay, VSP-007, Vesda® Aspirating Smoke Detection System (Ansul 430468).....                    | 586.20                    | 86.36                   |
| 21 22 16 00-0361 EA Remote Termination Card (RTC7), VSP-008, Vesda® Aspirating Smoke Detection System (Ansul 430469).....                           | 882.85                    | 132.08                  |
| 21 22 16 00-0362 EA 7-Relay, Head Termination Card, VSP-014, Vesda® Aspirating Smoke Detection System (Ansul 430474).....                           | 1,675.82                  | 273.07                  |
| 21 22 16 00-0363 EA 12-Relay, Head Termination Card, VSP-016, Vesda® Aspirating Smoke Detection System (Ansul 430476).....                          | 2,458.18                  | 400.07                  |
| <b>21 22 16 00-0364 Preferred® Low Pressure CO2 System</b> (21 22 16 00-0001)   |                           |                         |
| <b>21 22 16 00-0365 Manual Pull Stations, Preferred® Low Pressure CO2 System</b> (21 22 16 00-0364)   |                           |                         |
| 21 22 16 00-0366 EA Addressable, DPST, Dual Action Pull Station, Preferred® Low Pressure CO2 System (Ansul 428658).....                             | 133.04                    | 22.22                   |
| Note: Excludes FMM-101.   |                           |                         |
| 21 22 16 00-0367 EA Weatherproof Backbox For Manual Pull Stations, Preferred® Low Pressure CO2 System (Ansul 428659).....                           | 99.45                     | 16.51                   |
| <b>21 22 16 00-0368 Industrial Fire Control System</b> (21 22 16 00-0001)   |                           |                         |
| <b>21 22 16 00-0369 Alarm Devices, Industrial Fire Control System</b> (21 22 16 00-0368)  |                           |                         |
| 21 22 16 00-0370 EA Explosion Proof Alarm Horn, Alarm Devices, Industrial Fire Control System (Ansul 65947).....                                    | 3,245.85                  | 585.82                  |
| 21 22 16 00-0371 EA 6", 115 Volt AC Alarm Bell For Release Systems, Alarm Devices, Industrial Fire Control System (Ansul 24751).....                | 96.89                     | 13.46                   |
| 21 22 16 00-0372 EA 24 Volt AC, Multitone Horn, Alarm Devices, Industrial Fire Control System (Ansul 429697).....                                   | 97.92                     | 17.47                   |
| 21 22 16 00-0373 EA Weatherproof Surface Back Box For Horn And Strobe, Alarm Devices, Industrial Fire Control System (Ansul 429700).....            | 58.37                     | 10.48                   |
| 21 22 16 00-0374 EA Semi-Flush Plate, Alarm Devices, Industrial Fire Control System (Ansul 429701).....   | 23.84                     | 4.25                    |
| <b>21 22 16 00-0375 Manual Pull Stations, Industrial Fire Control System</b> (21 22 16 00-0368)   |                           |                         |
| 21 22 16 00-0376 EA SPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428655).....  | 109.96                    | 18.42                   |
| 21 22 16 00-0377 EA DPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428656).....  | 155.08                    | 26.03                   |
| 21 22 16 00-0378 EA Explosion Proof, DPDT, Dual Action Pull Station, Industrial Fire Control System (Ansul 428657).....                             | 1,211.38                  | 204.48                  |
| 21 22 16 00-0379 EA Surface Mounted Backbox For Manual Pull Stations, Industrial Fire Control System (Ansul 428660).....                            | 35.20                     | 5.90                    |
| 21 22 16 00-0380 EA Extra Pull Station Labels For Manual Pull Stations, Industrial Fire Control System (Ansul 428654).....                          | 15.77                     | 2.63                    |
| <b>21 22 16 00-0381 Marine Fire Control System</b> (21 22 16 00-0001)   |                           |                         |
| <b>21 22 16 00-0382 Alarm Devices, Marine Fire Control System</b> (21 22 16 00-0381)  |                           |                         |
| 21 22 16 00-0383 EA Weatherproof Surface Mount Back Box For Alarm Accessories, Alarm Devices, Marine Fire Control System (Ansul 24747).....         | 63.77                     | 10.67                   |
| 21 22 16 00-0384 EA 6", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805).....                                       | 118.04                    | 20.64                   |
| 21 22 16 00-0385 EA 10", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417806).....                                      | 118.04                    | 20.64                   |
| <b>21 22 16 00-0386 FM200 System Equipment</b> (21 22 16)   |                           |                         |
| 21 22 16 00-0387 EA 26 LB Cylinder, Filled, For FM200 Fire Protection system.....   | 3,672.86                  | 153.18                  |
| 21 22 16 00-0388 EA 44 LB Cylinder, Filled, For FM200 Fire Protection system.....   | 5,247.46                  | 175.39                  |
| 21 22 16 00-0389 EA 63 LB Cylinder, Filled, For FM200 Fire Protection system.....   | 6,228.41                  | 206.79                  |
| 21 22 16 00-0390 EA 101 LB Cylinder, Filled, For FM200 Fire Protection system.....  | 8,243.28                  | 245.08                  |
| 21 22 16 00-0391 EA 196 LB Cylinder, Filled, For FM200 Fire Protection system.....  | 12,854.52                 | 306.36                  |
| 21 22 16 00-0392 EA Electro/Mechanical Release, For FM200 Fire Protection system.....   | 918.76                    | 306.36                  |
| 21 22 16 00-0393 EA Manual Pull Station, For FM200 Fire Protection system.....  | 318.47                    | 101.86                  |
| 21 22 16 00-0394 EA Pneumatic Damper Release, For FM200 Fire Protection system.....   | 369.96                    | 76.59                   |
| 21 22 16 00-0395 LB FM200 Gas.....  | 29.09                     |                         |
| 21 22 16 00-0396 EA Master Cylinder, For FM200 Fire Protection system.....  | 5,926.43                  | 82.41                   |
| 21 22 16 00-0397 EA Shuttle Check Valve, For FM200 Fire Protection system.....  | 892.48                    | 115.19                  |
| 21 22 16 00-0398 EA Flex Head Cylinder, For FM200 Fire Protection system.....   | 892.92                    | 123.46                  |
| 21 22 16 00-0399 EA Nozzles, For FM200 Fire Protection system.....  | 227.60                    | 43.66                   |
| 21 22 16 00-0400 EA Cylinder Support, For FM200 Fire Protection system.....   | 279.15                    | 82.41                   |
| 21 22 16 00-0401 EA Solenoid Valve, For FM200 Fire Protection system.....   | 1,142.27                  | 123.46                  |
| 21 22 16 00-0402 EA Battery Back-Up, For FM200 Fire Protection system.....  | 953.76                    | 325.66                  |
| 21 22 16 00-0403 EA Control Panel, Single Zone, For FM200 Fire Protection system.....   | 4,538.96                  | 611.80                  |
| 21 22 16 00-0404 EA Control Panel, Multi Zone, For FM200 Fire Protection system.....  | 7,448.81                  | 1,224.97                |
| 21 22 16 00-0405 EA Smoke Or Heat Detector, For FM200 Fire Protection system.....   | 394.58                    | 123.46                  |
| 21 22 16 00-0406 EA Annunciator, For FM200 Fire Protection system.....  | 3,663.06                  | 463.67                  |



**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 22 16 00-0407 | EA  |     | Pressure Switch, For FM200 Fire Protection system..... | 424.00                 | 123.46               |
| 21 22 16 00-0408 | EA  |     | Alarm Horn, For FM200 Fire Protection system.....      | 391.74                 | 123.46               |
| 21 22 16 00-0409 | EA  |     | Testing, For FM200 Fire Protection system.....         | 1,703.52               |                      |
| 21 22 16 00-0410 | EA  |     | Abort Switch, For FM200 Fire Protection system.....    | 259.56                 | 57.45                |

**21 23 Wet-Chemical Fire-Extinguishing Systems** (21 20)**21 23 16 Wet-Chemical Fire-Extinguishing Equipment** (21 23)**21 23 16 00-0001 Kidde Fire Systems** (21 23 16)

Note: Kidde or equal.

**21 23 16 00-0002 Cylinders And Hardware** (21 23 16 00-0001)

|                  |    |  |  |          |        |
|------------------|----|--|--|----------|--------|
| 21 23 16 00-0003 | EA |  | 125 Cylinder And Valve Assembly With 1.25 Gallon Of Wet Agent.....     | 978.83   | 126.88 |
| 21 23 16 00-0004 | EA |  | 260 Cylinder And Valve Assembly With 2.6 Gallon Of Wet Agent.....      | 1,131.09 | 158.04 |
| 21 23 16 00-0005 | EA |  | 400S And M Cylinder And Valve Assembly With 4 Gallon Of Wet Agent..... | 1,386.75 | 194.98 |
| 21 23 16 00-0006 | EA |  | 600 And L Cylinder And Valve Assembly With 6 Gallon Of Wet Agent.....  | 1,638.15 | 231.35 |
| 21 23 16 00-0007 | EA |  | Discharge Adapter Kit (One Required Per Cylinder).....                 | 54.60    | 6.63   |
| 21 23 16 00-0008 | EA |  | System Valve Actuator.....   | 197.54   | 26.37  |
| 21 23 16 00-0009 | EA |  | Vent Plug.....   | 37.26    | 5.36   |
| 21 23 16 00-0010 | EA |  | Gauge Shield.....  | 100.21   | 14.10  |
| 21 23 16 00-0011 | EA |  | 125 Cylinder Wall Mounting Bracket.....                                | 102.07   | 14.10  |
| 21 23 16 00-0012 | EA |  | 260 Cylinder Wall Mounting Bracket.....                                | 108.20   | 14.94  |
| 21 23 16 00-0013 | EA |  | 400S And M Cylinder Wall Mounting Bracket.....                         | 205.53   | 28.20  |
| 21 23 16 00-0014 | EA |  | 600 And 400M Cylinder Shelf Bracket.....                               | 204.27   | 32.01  |
| 21 23 16 00-0015 | EA |  | 600 And 400M Cylinder Floor Mounting Kit.....                          | 292.51   | 32.08  |
| 21 23 16 00-0016 | EA |  | 125 And 260 Cylinder Replacement Bracket Strap.....                    | 40.84    |        |
| 21 23 16 00-0017 | EA |  | 400 And 600 Cylinder Replacement Bracket Strap.....                    | 42.90    |        |

**21 23 16 00-0018 Nozzles And Accessories** (21 23 16 00-0001)

|                  |    |  |  |        |       |
|------------------|----|--|--|--------|-------|
| 21 23 16 00-0019 | EA |  | ADP, F, GRW Or R Nozzle.....                 | 91.66  | 12.97 |
| 21 23 16 00-0020 | EA |  | LPF Or DM Nozzle.....                        | 99.04  | 12.97 |
| 21 23 16 00-0021 | EA |  | LPR Nozzle.....                              | 114.25 | 12.97 |
| 21 23 16 00-0022 | EA |  | 3/8" Swivel Adapter For Nozzles.....         | 68.48  | 9.16  |
| 21 23 16 00-0023 | EA |  | Removal And Replacement Of Nozzle Seals..... | 10.83  |       |
| 21 23 16 00-0024 | EA |  | Chrome Nozzle Disc Cap.....                  | 6.65   | 0.84  |
| 21 23 16 00-0025 | EA |  | LPR Nozzle Disc Cap.....                     | 42.26  | 12.90 |

**21 23 16 00-0026 Control Systems** (21 23 16 00-0001)

|  |    |  |  |          |       |
|--|----|--|--|----------|-------|
| 21 23 16 00-0027   | EA |  | XV Control System.....   | 1,220.46 | 84.59 |
| Note: Includes (1) SVA, (1) system cartridge, (1) test cartridge, (1) EMT connector kit, (1) SPDT microswitch kit, and (1) SPDT microswitch kit. |    |  |  |          |       |
| 21 23 16 00-0028   | EA |  | 7-1/2" High Pressure Hose (Required for cylinder mounted XV Control System)..... | 106.38   | 14.10 |
| 21 23 16 00-0029   | EA |  | 24" High Pressure Hose.....  | 124.89   | 14.10 |
| 21 23 16 00-0030   | EA |  | 60" High Pressure Hose.....  | 166.04   | 14.10 |
| 21 23 16 00-0031   | EA |  | XV Solenoid Kit (Electric Actuator), 24 Volt DC.....                             | 243.60   | 28.20 |
| 21 23 16 00-0032   | EA |  | XV Microswitch Kit, SPDT.....  | 82.06    | 13.25 |
| 21 23 16 00-0033   | EA |  | XV Microswitch Kit, SPDT, Terminal Type, For Alarm/Release.....                  | 88.23    | 13.25 |
| 21 23 16 00-0034   | EA |  | EMT Connector Kit (EMT Connector And O-Ring).....                                | 37.61    | 10.57 |
| 21 23 16 00-0035   | EA |  | KRS-50 Control Box Assembly.....   | 689.42   | 54.63 |
| Note: Includes (1) SVA, (2) CO2 cartridges, (2) set screws, (1) grommet, (1) cover label, and (1) exhaust fan caution label.                     |    |  |  |          |       |
| 21 23 16 00-0036   | EA |  | SPDT Microswitch For KRS-50.....   | 95.88    | 13.25 |
| 21 23 16 00-0037   | EA |  | DPDT Microswitch For KRS-50.....   | 172.99   | 22.98 |
| 21 23 16 00-0038   | EA |  | SPDT Pressure Switch (Fire Department Tie-In).....                               | 532.76   | 73.73 |

**21 23 16 00-0039 Mechanical Actuation Components** (21 23 16 00-0001)

|   |    |  |   |        |       |
|---|----|--|---|--------|-------|
| 21 23 16 00-0040  | EA |  | Universal Detector Link Housing Kit, Mechanical Actuation Systems.....            | 67.39  | 21.15 |
| Note: Includes (1) bracket (11-3/4"), (2) "S" hook, and (2) cable crimp sleeves.              |    |  |   |        |       |
| 21 23 16 00-0041  | EA |  | XV Low Profile Link Detector Housing Kit.....                                     | 95.78  | 21.15 |
| Note: Includes (1) bracket, (2) 1/2" EMT connectors, (4) cable crimp sleeves, and (1) S hook. |    |  |   |        |       |
| 21 23 16 00-0042  | EA |  | XV Or KRS-50 Remote Manual Release, Combination Pull-To-Trip/Release-To-Trip..... | 242.16 | 14.10 |
| 21 23 16 00-0043  | EA |  | XV Remote Manual Release, Pull-To-Trip.....                                       | 186.61 | 14.10 |
| 21 23 16 00-0044  | EA |  | Corner Pulley, Mechanical Actuation Systems.....                                  | 26.80  | 3.81  |
| 21 23 16 00-0045  | EA |  | Double Tee Pulley, Mechanical Actuation Systems.....                              | 355.05 | 23.26 |
| 21 23 16 00-0046  | EA |  | In-Line Tee Pulley, Mechanical Actuation Systems.....                             | 44.80  | 6.20  |
| 21 23 16 00-0047  | EA |  | Corner Pulley / Quik-Seal Adapter Combination.....                                | 98.45  | 7.05  |
| 21 23 16 00-0048  | LF |  | 1/16" Cable, Mechanical Actuation Systems.....                                    | 3.28   | 1.41  |
| 21 23 16 00-0049  | EA |  | Cable Clamp.....  | 13.75  | 0.70  |
| 21 23 16 00-0050  | EA |  | Cable Crimp Sleeve, Mechanical Actuation Systems.....                             | 1.95   | 0.56  |
| 21 23 16 00-0051  | EA |  | "S" Hook, Mechanical Actuation Systems.....                                       | 1.89   | 0.56  |
| 21 23 16 00-0052  | EA |  | 1/2" EMT x 3/8" NPT Adapter, Mechanical Actuation Systems.....                    | 95.56  | 13.11 |

**21 23 16 00-0053 Mechanical Detection Links** (21 23 16 00-0001)

|                  |    |  |                                 |       |      |
|------------------|----|--|---------------------------------|-------|------|
| 21 23 16 00-0054 | EA |  | KGS Standard Response Link..... | 22.66 | 7.05 |
| 21 23 16 00-0055 | EA |  | KGS Rapid Response Link.....    | 31.23 | 7.05 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 21 23 16 00-0056 EA KFA Type "A" Fusible Link.....  | 27.39                     | 7.05                    |
| 21 23 16 00-0057 EA KML Type "ML" Fusible Link.....   | 28.50                     | 7.05                    |
| 21 23 16 00-0058 EA 500 Degree, KML Type "ML" Fusible Link.....   | 40.84                     | 7.05                    |
| <b>21 23 16 00-0059 Gas Valves</b> (21 23 16 00-0001)   |                           |                         |
| 21 23 16 00-0060 EA 3/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 416.73                    | 30.45                   |
| 21 23 16 00-0061 EA 1" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 455.99                    | 37.50                   |
| 21 23 16 00-0062 EA 1-1/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 526.02                    | 47.37                   |
| 21 23 16 00-0063 EA 1-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 578.56                    | 54.56                   |
| 21 23 16 00-0064 EA 2" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 627.91                    | 64.43                   |
| 21 23 16 00-0065 EA 2-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 1,034.36                  | 94.17                   |
| 21 23 16 00-0066 EA 3" NPT Mechanical Cable Operated Gas Shut-off Valve.....  | 1,157.13                  | 108.97                  |
| 21 23 16 00-0067 EA Pneumatic Release (Single Unit).....  | 473.25                    | 34.40                   |
| 21 23 16 00-0068 EA Removal And Replacement Of Cable Block And Set Screw Assembly For Gas Valve.....                              | 66.41                     |                         |
| 21 23 16 00-0069 EA 1/2" Electric Solenoid Gas Shut-off Valve.....  | 433.15                    | 28.34                   |
| 21 23 16 00-0070 EA 3/4" Electric Solenoid Gas Shut-off Valve.....  | 437.40                    | 30.45                   |
| 21 23 16 00-0071 EA 1" Electric Solenoid Gas Shut-off Valve.....  | 670.10                    | 37.50                   |
| 21 23 16 00-0072 EA 1-1/4" Electric Solenoid Gas Shut-off Valve.....  | 713.55                    | 47.37                   |
| 21 23 16 00-0073 EA 1-1/2" Electric Solenoid Gas Shut-off Valve.....  | 819.24                    | 54.56                   |
| 21 23 16 00-0074 EA 2" Electric Solenoid Gas Shut-off Valve.....  | 1,050.22                  | 64.43                   |
| 21 23 16 00-0075 EA 2-1/2" Electric Solenoid Gas Shut-off Valve.....  | 1,729.84                  | 94.17                   |
| 21 23 16 00-0076 EA 3" Electric Solenoid Gas Shut-off Valve.....  | 2,168.60                  | 108.97                  |
| 21 23 16 00-0077 EA Manual Reset Relay.....   | 645.18                    | 141.69                  |
| <b>21 23 16 00-0078 Liquid Tight Sealing Adapters</b> (21 23 16 00-0001)  |                           |                         |
| 21 23 16 00-0079 EA 3/8" Tubing, Compression Seal Adapter.....  | 48.75                     | 5.92                    |
| 21 23 16 00-0080 EA 1/2" Tubing, 1/4" Pipe, Compression Seal Adapter.....   | 48.31                     | 6.49                    |
| 21 23 16 00-0081 EA 5/8" Tubing, 3/8" Pipe, Compression Seal Adapter.....   | 56.81                     | 7.75                    |
| 21 23 16 00-0082 EA 3/4" Tubing, 1/2" Pipe, Compression Seal Adapter.....   | 65.25                     | 8.32                    |
| 21 23 16 00-0083 EA 1/2" Electrical Metallic Tubing (EMT), Compression Seal Adapter.....  | 56.81                     | 7.75                    |
| 21 23 16 00-0084 EA 3/8" NPT Female, Quik-Seal Adapter.....   | 48.31                     | 6.49                    |
| 21 23 16 00-0085 EA 1/2" NPT Female, Quik-Seal Adapter.....   | 48.31                     | 6.49                    |
| 21 23 16 00-0086 EA 3/4" NPT Female, Quik-Seal Adapter.....   | 79.53                     | 11.00                   |
| 21 23 16 00-0087 EA 1" NPT Female, Quik-Seal Adapter.....   | 105.85                    | 14.52                   |
| 21 23 16 00-0088 EA Quik-Patch For Hole Patching Up To 1-1/8" Diameter.....   | 48.31                     |                         |
| <b>21 23 16 00-0089 Pressure Operated Releasing Systems</b> (21 23 16 00-0001)  |                           |                         |
| 21 23 16 00-0090 EA KRS-100 Nitrogen Cylinder.....  | 349.41                    | 42.58                   |
| 21 23 16 00-0091 EA KRS-100 Actuator Assembly.....  | 315.68                    | 43.42                   |
| 21 23 16 00-0092 EA KRS-100 Mounting Bracket.....   | 236.88                    | 10.72                   |
| 21 23 16 00-0093 EA KRS-700S Nitrogen Cylinder.....   | 905.56                    | 122.79                  |
| 21 23 16 00-0094 EA KRS-700 Mounting Bracket.....   | 192.83                    | 26.23                   |
| 21 23 16 00-0095 EA KRS-700S Discharge Adapter Kit.....   | 285.61                    | 26.23                   |
| 21 23 16 00-0096 EA Check Valve, Pressure Operated Releasing Systems.....   | 279.33                    | 18.61                   |
| 21 23 16 00-0097 EA Vent Check, Pressure Operated Releasing Systems.....  | 88.78                     | 11.85                   |
| 21 23 16 00-0098 EA Removal And Replacement Of Receiver Gasket For KRS-100 Actuator Assembly.....                                 | 11.62                     |                         |
| 21 23 16 00-0099 EA 3 Pole, Double Throw Pressure Switch.....   | 725.99                    | 98.69                   |
| <b>21 23 16 00-0100 Pyro-Chem Kitchen Fire Suppression Systems</b> (21 23 16)   |                           |                         |
| <b>21 23 16 00-0101 Cylinders, Kitchen Fire Suppression Systems</b> (21 23 16 00-0100)  |                           |                         |
| 21 23 16 00-0102 EA 3.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551194).....                | 925.04                    | 100.10                  |
| 21 23 16 00-0103 EA 4.6 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551193).....                | 1,332.51                  | 144.22                  |
| 21 23 16 00-0104 EA 6.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551196).....                | 1,753.24                  | 197.23                  |
| 21 23 16 00-0105 EA Cylinder Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550053).....                           | 190.85                    | 23.54                   |
| 21 23 16 00-0106 EA Enclosure With Mechanical Control Unit, Kitchen Fire Suppression Systems (Pyro-Chem 551208).....              | 1,256.21                  | 153.95                  |
| 21 23 16 00-0107 EA Enclosure For Secondary Cylinders, Kitchen Fire Suppression Systems (Pyro-Chem 550966).....                   | 766.98                    | 93.89                   |
| <b>21 23 16 00-0108 Fusible Links, Kitchen Fire Suppression Systems</b> (21 23 16 00-0100)  |                           |                         |
| 21 23 16 00-0109 EA 165 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551522).....                        | 24.77                     | 3.10                    |
| 21 23 16 00-0110 EA 212 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551523).....                        | 24.77                     | 3.10                    |
| 21 23 16 00-0111 EA 280 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551524).....                        | 25.33                     | 3.10                    |
| 21 23 16 00-0112 EA 360 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551525).....                        | 24.77                     | 3.10                    |
| 21 23 16 00-0113 EA 450 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551526).....                        | 24.77                     | 3.10                    |
| 21 23 16 00-0114 EA 500 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551527).....                        | 26.82                     | 3.10                    |
| 21 23 16 00-0115 EA Fusible Link Kit With 10" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550131).....                   | 42.91                     | 5.22                    |
| 21 23 16 00-0116 EA Fusible Link Kit With 8" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550132).....                    | 55.71                     | 6.91                    |
| 21 23 16 00-0117 EA Fusible Link Hanger, Kitchen Fire Suppression Systems (Pyro-Chem 550876).....                                 | 80.03                     | 35.67                   |
| 21 23 16 00-0118 EA 225 To 600 Fahrenheit, Electrical Thermal Detector, Kitchen Fire Suppression Systems (Pyro-Chem 13970-6)..... | 541.76                    | 79.37                   |
| <b>21 23 16 00-0119 Gas Valves, Kitchen Fire Suppression Systems</b> (21 23 16 00-0100)   |                           |                         |
| 21 23 16 00-0120 EA 3/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550593).....      | 436.97                    | 30.45                   |
| 21 23 16 00-0121 EA 1" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550594).....        | 498.96                    | 37.50                   |
| 21 23 16 00-0122 EA 1-1/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550595).....    | 541.55                    | 47.37                   |

|              |  |
|--------------|--|
| <b>21</b>    | <b>Fire Suppression</b>                        |
| <b>21 20</b> | <b>Fire-Extinguishing Systems</b>              |
| <b>21 23</b> | <b>Wet-Chemical Fire-Extinguishing Systems</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 23 16 00-0123 EA 1-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550596).....                   | 596.73                    | 54.42                   |
| 21 23 16 00-0124 EA 2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 551049).....                       | 687.18                    | 64.29                   |
| 21 23 16 00-0125 EA 2-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550185).....                   | 1,576.42                  | 94.03                   |
| 21 23 16 00-0126 EA 3" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550186).....                       | 1,685.89                  | 108.83                  |
| 21 23 16 00-0127 EA 3/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550358).....  | 345.75                    | 30.45                   |
| 21 23 16 00-0128 EA 1" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550359).....  | 583.33                    | 37.50                   |
| 21 23 16 00-0129 EA 1-1/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550360).....  | 612.22                    | 47.37                   |
| 21 23 16 00-0130 EA 1-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550361).....  | 697.04                    | 54.42                   |
| 21 23 16 00-0131 EA 2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550362).....  | 960.78                    | 64.29                   |
| 21 23 16 00-0132 EA 2-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550363).....  | 1,845.43                  | 94.03                   |
| 21 23 16 00-0133 EA 3" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 17643).....   | 1,950.38                  | 108.83                  |
| <b>21 23 16 00-0134 Nozzles, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>   |                           |                         |
| 21 23 16 00-0135 EA Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....  | 88.61                     | 10.43                   |
| 21 23 16 00-0136 EA Swivel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....   | 125.16                    | 13.25                   |
| 21 23 16 00-0137 EA Stainless Steel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....  | 467.05                    | 13.25                   |
| <b>21 23 16 00-0138 Actuating Cylinders/Cartridges, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>                                      |                           |                         |
| 21 23 16 00-0139 EA Carbon Dioxide Actuation Cartridge, Kitchen Fire Suppression Systems (Pyro-Chem 551059).....                                 | 32.79                     | 4.09                    |
| 21 23 16 00-0140 EA PAC-10, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550104).....                               | 1,074.22                  | 132.38                  |
| 21 23 16 00-0141 EA PAC-200, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550690).....                              | 1,369.08                  | 169.32                  |
| <b>21 23 16 00-0142 Circuit Monitors, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>  |                           |                         |
| 21 23 16 00-0143 EA 24 Volt DC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550303).....           | 702.26                    | 86.70                   |
| 21 23 16 00-0144 EA 120 Volt AC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550302).....          | 847.32                    | 104.47                  |
| <b>21 23 16 00-0145 Control Heads, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>   |                           |                         |
| 21 23 16 00-0146 EA Mechanical Control Head, No Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551203).....                           | 774.78                    | 95.59                   |
| 21 23 16 00-0147 EA Mechanical Control Head With Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551200).....                          | 808.76                    | 99.95                   |
| 21 23 16 00-0148 EA 24 Volt DC, Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551201).....           | 1,053.38                  | 129.98                  |
| 21 23 16 00-0149 EA 120 Volt AC Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551202).....           | 1,208.53                  | 149.44                  |
| 21 23 16 00-0150 EA Control Head Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550853).....                                      | 98.16                     | 12.13                   |
| <b>21 23 16 00-0151 Corner Pulleys/Tees, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>   |                           |                         |
| 21 23 16 00-0152 EA Set Screw Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 415670).....                                      | 24.12                     | 1.97                    |
| 21 23 16 00-0153 EA Compression Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 423250).....                                    | 25.01                     | 2.53                    |
| 21 23 16 00-0154 EA Tee Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550166).....   | 78.70                     | 9.72                    |
| 21 23 16 00-0155 EA Removal And Replacement Of Screw For Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550272).....                 | 1.04                      |                         |
| <b>21 23 16 00-0156 Switches, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>  |                           |                         |
| 21 23 16 00-0157 EA SPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550227).....  | 85.57                     | 10.57                   |
| 21 23 16 00-0158 EA DPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550237).....  | 171.38                    | 21.01                   |
| 21 23 16 00-0159 EA Four Pole Double Throw Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550978).....                                      | 362.69                    | 44.55                   |
| <b>21 23 16 00-0160 Wire Rope/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>   |                           |                         |
| 21 23 16 00-0161 LF 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 15821).....                            | 1.81                      | 0.42                    |
| 21 23 16 00-0162 EA Crimps For 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 550122).....                | 1.15                      | 0.42                    |
| 21 23 16 00-0163 EA High Temperature Stainless Steel Crimps, Kitchen Fire Suppression Systems (Pyro-Chem 551551).....                            | 4.25                      | 0.56                    |
| 21 23 16 00-0164 EA "S" Hooks, Kitchen Fire Suppression Systems (Pyro-Chem 550121).....  | 0.79                      |                         |
| <b>21 23 16 00-0165 Replacement Parts, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>   |                           |                         |
| 21 23 16 00-0166 EA Wet Valve Rebuilding Kit, Kitchen Fire Suppression Systems (Pyro-Chem 550698).....   | 81.35                     | 10.15                   |
| 21 23 16 00-0167 EA Wet Valve Cap With Schrader Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550831).....                                  | 84.92                     | 10.57                   |
| 21 23 16 00-0168 EA Wet Spring, Kitchen Fire Suppression Systems (Pyro-Chem 550705).....   | 9.94                      | 1.27                    |
| 21 23 16 00-0169 EA 225 psi, Wet Gauge, Kitchen Fire Suppression Systems (Pyro-Chem 551236).....   | 116.47                    | 13.82                   |
| 21 23 16 00-0170 EA Wet Valve O-ring, Kitchen Fire Suppression Systems (Pyro-Chem 550716).....   | 16.36                     | 1.97                    |
| 21 23 16 00-0171 EA Wet Piston, Kitchen Fire Suppression Systems (Pyro-Chem 550707).....   | 22.78                     | 2.82                    |
| 21 23 16 00-0172 EA Wet Piston O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 550715).....  | 9.94                      | 1.27                    |
| 21 23 16 00-0173 EA Wet Nozzle Cap, Kitchen Fire Suppression Systems (Pyro-Chem 551528).....   | 14.01                     | 1.69                    |
| 21 23 16 00-0174 EA Wet Nozzle Strainer, Kitchen Fire Suppression Systems (Pyro-Chem 551529).....  | 13.70                     | 1.69                    |
| 21 23 16 00-0175 EA Wet Nozzle Cap O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 551530).....  | 3.92                      | 0.42                    |
| 21 23 16 00-0176 EA Removal And Replacement Of Teflon Washer For Control Head Actuator, Kitchen Fire Suppression Systems (Pyro-Chem 550257)..... | 6.63                      |                         |
| 21 23 16 00-0177 EA O-Ring Lubrication, Kitchen Fire Suppression Systems (Pyro-Chem 550063).....   | 126.89                    |                         |
| 21 23 16 00-0178 EA 3.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 551024).....   | 858.12                    |                         |
| 21 23 16 00-0179 EA 4.6 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550902).....   | 1,117.02                  |                         |
| 21 23 16 00-0180 EA 6.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550901).....   | 1,291.68                  |                         |



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                         |    |  |  |        |      |
|-------------------------|----|--|--|--------|------|
| <b>21 23 16 00-0181</b> |    |  | <b>Accessories, Kitchen Fire Suppression Systems</b> <small>(21 23 16 00-0100)</small>       |        |      |
| 21 23 16 00-0182        | EA |  | 3/8" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550857)                  | 39.80  | 4.80 |
| 21 23 16 00-0183        | EA |  | 1/2" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550859)                  | 41.24  | 5.08 |
| 21 23 16 00-0184        | EA |  | Wet Valve Tool, Kitchen Fire Suppression Systems (Pyro-Chem 550788)                          | 79.40  | 9.72 |
| 21 23 16 00-0185        | EA |  | Recharge Adapter Kit, Kitchen Fire Suppression Systems (Pyro-Chem 551240)                    | 112.36 |      |
| 21 23 16 00-0186        | EA |  | 3.0 Gallon Of Wet Chemical For Recharge, Kitchen Fire Suppression Systems (Pyro-Chem 551188) | 241.50 |      |

|                         |    |  |   |        |       |
|-------------------------|----|--|---|--------|-------|
| <b>21 23 16 00-0187</b> |    |  | <b>Pull Stations/Accessories, Kitchen Fire Suppression Systems</b> <small>(21 23 16 00-0100)</small>  |        |       |
| 21 23 16 00-0188        | EA |  | Mechanical, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551074)                  | 160.51 | 19.88 |
| 21 23 16 00-0189        | EA |  | Electric, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551166)                    | 174.44 | 27.91 |
| 21 23 16 00-0190        | EA |  | Trim Ring For Flush Mounting Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 550088) | 42.91  | 5.22  |
| 21 23 16 00-0191        | EA |  | Glass Rods For Pull Stations, Kitchen Fire Suppression Systems (Pyro-Chem 428661)                     | 6.18   | 1.83  |

|                         |    |  |   |          |        |
|-------------------------|----|--|---|----------|--------|
| <b>21 23 16 00-0192</b> |    |  | <b>Asco Gas Valve Control Panels</b> <small>(21 23 16)</small>                      |          |        |
| 21 23 16 00-0193        | EA |  | Relay Control Panel For AC Solenoid Valves (Asco 108D90C)                           | 2,655.44 | 310.16 |
| 21 23 16 00-0194        | EA |  | Relay Control Panel For DC Solenoid Valves (Asco 108D10C)                           | 2,739.94 | 310.16 |
| 21 23 16 00-0195        | EA |  | Master Control Station For Relay Control Panel For DC Solenoid Valves (Asco 216C89) | 880.04   | 70.49  |
| 21 23 16 00-0196        | EA |  | Emergency Stop Station For Relay Control Panel (Asco 173A19)                        | 824.85   | 70.49  |

**21 24 Dry-Chemical Fire-Extinguishing Systems** (21 20)

**21 24 16 Dry-Chemical Fire-Extinguishing Equipment** (21 24)

|   |    |  |  |        |        |
|---|----|--|--|--------|--------|
| <b>21 24 16 00-0001</b>                               |    |  | <b>Amerex KP Restaurant Fire Suppression Systems</b> <small>(21 24 16)</small>                       |        |        |
| Note: Amerex or equal.                                |    |  |  |        |        |
| 21 24 16 00-0002                                      | EA |  | 3.75 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve                                   | 627.70 | 109.40 |
| 21 24 16 00-0003                                      | EA |  | 6 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve                                      | 866.45 | 137.97 |
| 21 24 16 00-0004                                      | EA |  | Recharge - KP Liquid Agent (3.75 Gallon)   | 205.79 |        |
| 21 24 16 00-0005                                      | EA |  | Recharge - KP Liquid Agent (6 Gallon)  | 361.74 |        |
| 21 24 16 00-0006                                      | EA |  | 3.75 Gallon, Bracket Assembly Agent Cylinder With Distribution Hose Assembly And Distribution Outlet | 144.05 | 22.97  |
| 21 24 16 00-0007                                      | EA |  | 6 Gallon, Bracket Assembly Agent Cylinder  | 83.91  | 13.32  |
| 21 24 16 00-0008                                      | EA |  | 6 Gallon, 3/4 NPT, Agent Cylinder Discharge Adapter Kit  | 36.39  |        |
| 21 24 16 00-0009                                      | EA |  | 6 Gallon, Pneumatic Actuator, Agent Cylinder   | 144.05 | 22.97  |
| 21 24 16 00-0010                                      | EA |  | MRM Actuator (Less N2 Cylinder And Enclosure)  | 361.74 | 57.58  |
| 21 24 16 00-0011                                      | EA |  | Painted Steel, MRM Enclosure   | 192.79 | 30.63  |
| 21 24 16 00-0012                                      | EA |  | Stainless Steel, MRM Enclosure   | 231.18 | 30.63  |
| 21 24 16 00-0013                                      | EA |  | Stainless Steel, Single Cylinder System Cabinet  | 574.04 | 91.42  |
| 21 24 16 00-0014                                      | EA |  | N2 - 1/4" x 16" Actuation Hose   | 43.32  | 6.90   |
| 21 24 16 00-0015                                      | EA |  | 10 CU. Inch, Nitrogen Cylinder   | 192.79 | 30.63  |
| Note: Use For 1-10 Agent Cylinders                    |    |  |  |        |        |
| 21 24 16 00-0016                                      | EA |  | Vent Check   | 34.67  | 5.51   |
| 21 24 16 00-0017                                      | EA |  | Detector   | 25.99  | 4.13   |
| Note: Includes bracket, linkage and conduit fittings. |    |  |  |        |        |
| 21 24 16 00-0018                                      | EA |  | 280 To 450 Degree F, Fusible Link  | 9.75   | 1.53   |
| 21 24 16 00-0019                                      | EA |  | Test Link  | 3.77   |        |
| 21 24 16 00-0020                                      | EA |  | Corner Pulley  | 13.42  | 2.14   |
| 21 24 16 00-0021                                      | EA |  | 1/16", 500 Foot Spool, Cable   | 216.60 | 34.46  |
| 21 24 16 00-0022                                      | EA |  | Pulley Tee   | 97.47  | 15.47  |
| 21 24 16 00-0023                                      | EA |  | Manual Pull Station (Standard)   | 86.63  | 13.78  |
| 21 24 16 00-0024                                      | EA |  | Manual Pull Station, Adapter Kit (Recess Standard Pull Station)                                      | 40.65  | 6.43   |
| 21 24 16 00-0025                                      | EA |  | Manual Pull Station (Oversized)  | 96.61  | 15.31  |
| 21 24 16 00-0026                                      | EA |  | Conduit Offset   | 19.27  | 3.07   |
| 21 24 16 00-0027                                      | EA |  | 3/8" Pipe Thread, Seal (Quick-Seal)  | 26.57  | 4.29   |
| 21 24 16 00-0028                                      | EA |  | 1/2" Pipe Thread, Seal (Quick-Seal)  | 21.67  | 3.52   |
| 21 24 16 00-0029                                      | EA |  | 3/8" Pipe Compression Seal   | 36.17  | 5.82   |
| 21 24 16 00-0030                                      | EA |  | 1/2" Pipe Compression Seal   | 36.17  | 5.82   |
| 21 24 16 00-0031                                      | EA |  | Cap, Nozzle Blow-Off (Standard)  | 11.62  | 3.98   |
| 21 24 16 00-0032                                      | EA |  | Cap, Nozzle Blow-Off (High Temperature)  | 24.17  | 3.98   |
| 21 24 16 00-0033                                      | EA |  | 2 Flow Points, Fryer/Griddle Nozzle  | 43.32  | 6.90   |
| 21 24 16 00-0034                                      | EA |  | 1 Flow Point Each, Appliance, Plenum Nozzle  | 43.32  | 6.90   |
| 21 24 16 00-0035                                      | EA |  | Nozzle - Solid Fuel Charbroiler - 1 To 1-1/2 Flow Points Each  | 43.32  | 6.90   |
| 21 24 16 00-0036                                      | EA |  | 1/2 Flow Points Each, Upright Charbroiler Nozzle   | 43.32  | 6.90   |
| 21 24 16 00-0037                                      | EA |  | 2 Flow Points Each, Duct (Only) Nozzle   | 43.32  | 6.90   |
| 21 24 16 00-0038                                      | EA |  | 2 Flow Points Each, Four Burner Range Nozzle   | 62.30  | 9.95   |
| 21 24 16 00-0039                                      | EA |  | 3/4" Or 1" Mechanical Gas Valve  | 336.61 | 40.58  |
| 21 24 16 00-0040                                      | EA |  | 1-1/4" Or 1-1/2" Mechanical Gas Valve  | 402.90 | 58.96  |
| 21 24 16 00-0041                                      | EA |  | 2" Mechanical Gas Valve  | 499.64 | 69.67  |
| 21 24 16 00-0042                                      | EA |  | Manual Reset Relay (Required With Every Electric Gas Valve)  | 545.84 | 86.83  |
| 21 24 16 00-0043                                      | EA |  | SPDT Microswitch With 18" Leads  | 28.73  | 4.59   |
| 21 24 16 00-0044                                      | EA |  | Kit Gas Valve Actuator For Use With ASCO Mechanical Gas Valve  | 46.36  | 7.35   |
| 21 24 16 00-0045                                      | EA |  | Gas Valve Trip Assembly  | 97.48  | 15.47  |

|                             |    |  |   |        |        |
|-----------------------------|----|--|---|--------|--------|
| <b>21 24 16 00-0046</b>     |    |  | <b>Range Guard Fire Suppression Systems</b> <small>(21 24 16)</small> |        |        |
| Note: Range Guard or equal. |    |  |   |        |        |
| 21 24 16 00-0047            | EA |  | 1-1/4 Gallon Charged Cylinder With Valve                              | 667.67 | 118.29 |

**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 24 Dry-Chemical Fire-Extinguishing Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 21 24 16 00-0048 EA 2-1/2 Gallon Charged Cylinder With Valve .....   | 833.43                    | 147.61                  |
| 21 24 16 00-0049 EA 4 Gallon Charged Cylinder With Valve.....  | 1,028.91                  | 182.29                  |
| 21 24 16 00-0050 EA 6 Gallon Charged Cylinder With Valve.....  | 1,222.12                  | 216.41                  |
| 21 24 16 00-0051 EA Vent Plug.....   | 28.06                     | 4.94                    |
| 21 24 16 00-0052 EA Discharge Adapter Kit.....   | 36.13                     |                         |
| 21 24 16 00-0053 EA 1-1/4 Gallon Wall Bracket .....  | 74.32                     | 13.11                   |
| 21 24 16 00-0054 EA 2-1/2 Gallon Wall Bracket.....   | 78.66                     | 13.96                   |
| 21 24 16 00-0055 EA 4 Gallon Wall Bracket.....   | 148.55                    | 26.37                   |
| 21 24 16 00-0056 EA 6 Gallon Wall Bracket.....   | 164.63                    | 29.18                   |
| 21 24 16 00-0057 EA Mechanical Control Head, No Microswitch .....  | 580.77                    | 102.92                  |
| 21 24 16 00-0058 EA Mechanical Control Head, 1 Microswitch.....  | 605.92                    | 107.28                  |
| 21 24 16 00-0059 EA Mechanical Control Head, 2 Microswitches.....  | 695.11                    | 123.07                  |
| 21 24 16 00-0060 EA Tandem Control Head.....   | 528.18                    | 93.61                   |
| 21 24 16 00-0061 EA Electric Control Head, 120 Volt AC / 24 Volt DC.....   | 894.02                    | 158.32                  |
| 21 24 16 00-0062 EA Mechanical Control Box.....  | 397.85                    | 70.49                   |
| 21 24 16 00-0063 EA Tandem Control Box.....  | 397.85                    | 70.49                   |
| 21 24 16 00-0064 EA Mechanical Control Box Adapter.....  | 116.61                    | 20.72                   |
| 21 24 16 00-0065 EA A+ Control head With 1 Pressure Operated Actuator .....  | 350.45                    | 62.03                   |
| 21 24 16 00-0066 EA Pressure Operated Actuator.....  | 144.05                    | 25.52                   |
| 21 24 16 00-0067 EA BMCS-1 Nitrogen Cylinder.....  | 233.22                    | 41.31                   |
| 21 24 16 00-0068 EA BMCS-1 Actuator Assembly .....   | 237.80                    | 42.15                   |
| 21 24 16 00-0069 EA BMCS-1 Mounting Bracket .....  | 58.30                     | 10.29                   |
| 21 24 16 00-0070 EA BMCS-7 Nitrogen Cylinder.....  | 672.94                    | 119.13                  |
| 21 24 16 00-0071 EA BMCS-7 Mounting Bracket .....  | 144.05                    | 25.52                   |
| 21 24 16 00-0072 EA BMCS-7 Discharge Adapter Kit .....   | 144.05                    | 25.52                   |
| 21 24 16 00-0073 EA Check Valve.....   | 126.22                    | 30.31                   |
| 21 24 16 00-0074 EA Vent Check For Use With BMCS Systems .....   | 65.16                     | 11.56                   |
| 21 24 16 00-0075 EA Check Valve, (Schrader Flare Fitting) For Pressure Operated Actuator .....   | 28.36                     | 5.02                    |
| 21 24 16 00-0076 EA Removal And Replacement Of Receiver Gasket For BMCS-Actuator Assembly .....  | 7.47                      |                         |
| 21 24 16 00-0077 EA Pneumatic Control Head For Slave Cylinders.....  | 148.62                    | 26.37                   |
| 21 24 16 00-0078 EA Nozzles; ADP, F, R And GRW.....  | 68.13                     | 12.13                   |
| 21 24 16 00-0079 EA Nozzles; DM And LPF.....   | 75.91                     | 13.39                   |
| 21 24 16 00-0080 EA Swivel Adapter.....  | 48.01                     | 8.46                    |
| 21 24 16 00-0081 EA Corner Pulley.....   | 20.58                     | 3.67                    |
| 21 24 16 00-0082 LF 1/16" Stainless Steel Cable.....   | 1.02                      | 0.42                    |
| 21 24 16 00-0083 EA Cable Crimp Sleeve.....  | 1.22                      | 0.42                    |
| 21 24 16 00-0084 EA "S" Hook .....   | 0.91                      | 0.28                    |
| 21 24 16 00-0085 EA Electrical Metallic Tubing (EMT) Adapter, 1/2" Electrical Metallic Tubing (EMT) x 3/8" NPT .....   | 70.84                     | 12.55                   |
| 21 24 16 00-0086 EA Cable Clamp .....  | 6.32                      | 1.13                    |
| 21 24 16 00-0087 EA Nico Sleeves - 1/16" Cable .....   | 0.91                      | 0.28                    |
| 21 24 16 00-0088 EA 3/8" Cable Anchor.....   | 74.88                     | 13.25                   |
| 21 24 16 00-0089 EA 1/2" Cable Anchor.....   | 74.88                     | 13.25                   |
| 21 24 16 00-0090 EA Mechanical Remote Manual Release (Pull Cable).....   | 121.11                    | 21.43                   |
| 21 24 16 00-0091 EA Tee Pulley, Use For Mechanical Pull And Gas Valve .....  | 129.25                    | 22.84                   |
| 21 24 16 00-0092 EA Surface Remote Manual Release, End-of-line.....  | 151.42                    | 26.79                   |
| 21 24 16 00-0093 EA Surface Remote Manual Release, In line Conservation Kit .....  | 47.45                     | 8.46                    |
| 21 24 16 00-0094 EA Surface Remote Manual Release, In line And End Of Line .....   | 198.79                    | 35.10                   |
| 21 24 16 00-0095 EA Recessed Remote Manual Release, End-of-line .....  | 151.42                    | 26.79                   |
| 21 24 16 00-0096 EA Recessed Remote Manual Release, In Line Kit.....   | 180.51                    | 32.01                   |
| 21 24 16 00-0097 EA Pulley Tee, Remote In Line Only .....  | 32.45                     | 5.78                    |
| 21 24 16 00-0098 EA Fusible Link Housing Kit With 1 - Bracket, 2 - 1/2" Electrical Metallic Tubing (EMT) Connector, 1 - "S" Hook, 8 - Cable Crimp Sleeve ..... | 36.03                     | 6.35                    |
| 21 24 16 00-0099 EA Fusible Link 165F To 360F .....  | 11.80                     | 2.11                    |
| 21 24 16 00-0100 EA Fusible Link 500F .....  | 17.93                     | 2.11                    |
| 21 24 16 00-0101 EA Standard Detector With 1 - 360F link, 2 - "S" Hooks, 2 - Crimp Sleeves .....   | 36.03                     | 6.35                    |
| 21 24 16 00-0102 EA Standard Detector Kit With 1 - Large Bracket, 2 - "S" Hooks, 2 - Cable Crimp Sleeve .....  | 27.54                     | 6.35                    |
| 21 24 16 00-0103 EA Quartzoid Link 400 F.....  | 194.22                    | 34.40                   |
| 21 24 16 00-0104 EA Quartzoid Link 500 F.....  | 194.22                    | 34.40                   |
| 21 24 16 00-0105 EA SPDT Micro Switch For Use With A Plus Control Box .....  | 69.62                     | 12.27                   |
| 21 24 16 00-0106 EA DPDT Micro Switch For Use With A Plus Control Box .....  | 121.10                    | 21.43                   |
| 21 24 16 00-0107 EA SPDT Micro Switch For Use With A Mechanical Control Box.....   | 71.97                     | 12.69                   |
| 21 24 16 00-0108 EA DPDT Micro Switch For Use With A Mechanical Control Box.....   | 124.74                    | 22.13                   |
| 21 24 16 00-0109 EA SPDT Micro Switch For Use With PRCB .....  | 91.39                     | 16.21                   |
| 21 24 16 00-0110 EA DPDT Micro Switch For Use With PRCB .....  | 131.84                    | 23.26                   |
| 21 24 16 00-0111 EA Pressure Switch, SPDT (Fire Dept. Tie In) .....  | 386.17                    | 68.38                   |
| 21 24 16 00-0112 EA Circuit Monitor 12 Or 24 Volt DC .....   | 173.66                    | 30.73                   |
| 21 24 16 00-0113 EA Circuit Monitor 120 Volt AC.....   | 173.66                    | 30.73                   |
| 21 24 16 00-0114 EA Electric Manual Pull Station .....   | 126.82                    | 22.41                   |
| 21 24 16 00-0115 EA 6", 24 Volt DC, Motor Bell .....   | 70.83                     | 12.55                   |
| 21 24 16 00-0116 EA 10", 115 Volt AC Motor Bell .....  | 100.54                    | 17.77                   |
| 21 24 16 00-0117 EA Fuse, 1.2 For ECH.....   | 8.15                      | 1.41                    |
| 21 24 16 00-0118 EA Indicator Lamp 12 Or 24 Volt DC.....   | 36.03                     | 6.35                    |
| 21 24 16 00-0119 EA Indicator Lamp 120 Volt AC.....  | 36.03                     | 6.35                    |
| 21 24 16 00-0120 EA B-10 Manual Station Dual Action, SPDT.....   | 132.53                    | 23.40                   |
| 21 24 16 00-0121 EA B-11 Manual Station Dual Action, DPDT .....  | 146.24                    | 25.94                   |
| 21 24 16 00-0122 EA Break Rods For B10/B11 Manual Pull Station .....   | 4.51                      | 1.83                    |
| 21 24 16 00-0123 EA Spare Key For B10/B11 Manual Stations .....  | 18.28                     | 3.24                    |
| 21 24 16 00-0124 EA MT-24-LSM-VAR Multitone Signal With 15/75cd Strobe, 24 Volt, Flush Grill .....   | 196.51                    | 34.82                   |
| 21 24 16 00-0125 EA Suppression Abort Station .....  | 207.93                    | 36.79                   |
| 21 24 16 00-0126 EA Suppression Abort Station With Surface Mount Back Box.....   | 242.21                    | 42.86                   |
| 21 24 16 00-0127 EA Surface Mount Back Box .....   | 79.98                     | 14.10                   |



|  |  |  |              |
|--|--|--|--------------|
|  |  | <b>Fire Suppression</b>                        | <b>21</b>    |
|  |  | <b>Fire-Extinguishing Systems</b>              | <b>21 20</b> |
|  |  | <b>Dry-Chemical Fire-Extinguishing Systems</b> | <b>21 24</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 21 24 16 00-0128 | EA  |     | Single Hazard Control Unit, 120 Volt AC IP.....                            | 1,485.21               | 262.65               |
| 21 24 16 00-0129 | EA  |     | Single Hazard Control Unit, 240 Volt AC IP.....                            | 1,485.21               | 262.65               |
| 21 24 16 00-0130 | EA  |     | 1 Lead Acid Battery; 24 Volt DC, 1.2 A.H. ....                             | 123.39                 | 21.85                |
| 21 24 16 00-0131 | EA  |     | Accessory Kit - End-of-line Resistors (10K Ohms, 1/2 W).....               | 4.85                   | 0.99                 |
| 21 24 16 00-0132 | EA  |     | Spare Scorpio Circuit Board.....   | 1,073.84               |                      |
| 21 24 16 00-0133 | EA  |     | Extra Scorpio Key.....   | 18.28                  |                      |
| 21 24 16 00-0134 | EA  |     | Extra Scorpio Manual.....  | 11.42                  |                      |
| 21 24 16 00-0135 | EA  |     | Compression Seal Adapter 3/8" Pipe.....                                    | 31.07                  | 5.50                 |
| 21 24 16 00-0136 | EA  |     | Compression Seal Adapter 1/2" Tubing/ 1/4" Pipe.....                       | 33.74                  | 5.92                 |
| 21 24 16 00-0137 | EA  |     | Compression Seal Adapter 5/8" Tubing/ 3/8" Pipe.....                       | 40.60                  | 7.19                 |
| 21 24 16 00-0138 | EA  |     | Compression Seal Adapter 3/4" Tubing/ 1/2" Pipe.....                       | 43.42                  | 7.61                 |
| 21 24 16 00-0139 | EA  |     | Quik Seal Adapter 3/8" NPT Female.....                                     | 33.74                  | 5.92                 |
| 21 24 16 00-0140 | EA  |     | Quik Seal Adapter 1/2" NPT Female.....                                     | 33.74                  | 5.92                 |
| 21 24 16 00-0141 | EA  |     | Quik Seal Adapter 3/4" NPT Female.....                                     | 57.72                  | 10.29                |
| 21 24 16 00-0142 | EA  |     | Quik Seal Adapter 1" NPT Female.....                                       | 76.54                  | 13.54                |
| 21 24 16 00-0143 | EA  |     | Quik Patch (Up To 1-1/8" Diameter).....                                    | 33.74                  | 5.92                 |
| 21 24 16 00-0144 | EA  |     | 1-1/4 Gallon Karbaloy Charge.....  | 75.10                  |                      |
| 21 24 16 00-0145 | EA  |     | 2-1/2 Gallon Karbaloy Charge.....  | 129.09                 |                      |
| 21 24 16 00-0146 | EA  |     | 4 Gallon Karbaloy Charge.....  | 195.11                 |                      |
| 21 24 16 00-0147 | EA  |     | 6 Gallon Karbaloy Charge.....  | 285.52                 |                      |
| 21 24 16 00-0148 | EA  |     | Inlet Flushing Adapter.....  | 55.98                  | 9.86                 |
| 21 24 16 00-0149 | EA  |     | 1/2" Flushing Adapter (Outlet).....  | 55.98                  | 9.86                 |
| 21 24 16 00-0150 | EA  |     | 1/8" Flushing Adapter (Outlet).....  | 55.98                  | 9.86                 |
| 21 24 16 00-0151 | EA  |     | 1/4" Flushing Adapter (Outlet).....  | 55.98                  | 9.86                 |
| 21 24 16 00-0152 | EA  |     | 3/8" Flushing Adapter (Outlet).....  | 55.98                  | 9.86                 |
| 21 24 16 00-0153 | EA  |     | Recharge Adapter (Old Style Cylinder Valve Assembly Only).....             | 77.68                  |                      |
| 21 24 16 00-0154 | EA  |     | Instruction Label (In Case Of Fire) - MCB.....                             | 6.35                   |                      |
| 21 24 16 00-0155 | EA  |     | Caution Sign (Turn On Fan).....  | 7.46                   |                      |
| 21 24 16 00-0156 | EA  |     | Inspection Label (Authorized installers only).....                         | 5.47                   |                      |
| 21 24 16 00-0157 | EA  |     | Label, Warning, A+ Control Box.....  | 4.14                   |                      |
| 21 24 16 00-0158 | EA  |     | Wet Chemical System Kits, RG-1.25G Kit; #23315.....                        | 982.46                 | 173.83               |
| 21 24 16 00-0159 | EA  |     | Wet Chemical System Kits, RG-2.5G Kit; #23316.....                         | 1,146.97               | 202.87               |
| 21 24 16 00-0160 | EA  |     | Wet Chemical System Kits, RG-4GS Kit; #23317.....                          | 1,428.04               | 252.64               |
| 21 24 16 00-0161 | EA  |     | Wet Chemical System Kits, RG-4GT Kit; #23318.....                          | 1,428.04               | 252.64               |
| 21 24 16 00-0162 | EA  |     | Wet Chemical System Kits, RG-6G Kit; #23319.....                           | 1,795.89               | 317.63               |
| 21 24 16 00-0163 | EA  |     | Wet Chemical System Kits, RG Mechanical Control HD (MCH) Kit; #23320.....  | 851.09                 | 150.56               |
| 21 24 16 00-0164 | EA  |     | Wet Chemical System Kits, RG Mechanical Control Box (MCB) Kit; #23321..... | 799.68                 | 141.40               |
| 21 24 16 00-0165 | EA  |     | Wet Chemical System Kits, A Plus Control Box Kit; #23322.....              | 646.60                 | 114.33               |
| 21 24 16 00-0166 | EA  |     | Wet Chemical System Kits, Valve Rebuild Kit; #23210.....                   | 1,119.55               | 198.08               |
| 21 24 16 00-0167 | EA  |     | Wet Chemical System Kits, BMCS-1 Package; #23208.....                      | 1,025.85               | 181.45               |

**21 30 Fire Pumps** <sup>(21)</sup>

**21 31 Centrifugal Fire Pumps** <sup>(21 30)</sup>

**21 31 13 Electric-Drive, Centrifugal Fire Pumps** <sup>(21 31)</sup>

**21 31 13 00-0001 Electric-Drive Fire Pumps** <sup>(21 31 13)</sup>

Note: Includes fire pump, motor, motor starter, alarm panel, automatic transfer switch, and controller.

|                  |    |  |                                       |                   |          |
|------------------|----|--|---------------------------------------|-------------------|----------|
| 21 31 13 00-0002 | EA |  | 20 HP Electric Fire Pump.....         | 61,007.39         | 2,704.61 |
|                  |    |  | <i>For Duplex Pumping System, Add</i> | <i>58,302.79</i>  |          |
| 21 31 13 00-0003 | EA |  | 30 HP Electric Fire Pump.....         | 71,075.52         | 3,042.68 |
|                  |    |  | <i>For Duplex Pumping System, Add</i> | <i>68,258.22</i>  |          |
| 21 31 13 00-0004 | EA |  | 40 HP Electric Fire Pump.....         | 96,707.46         | 3,380.76 |
|                  |    |  | <i>For Duplex Pumping System, Add</i> | <i>93,577.13</i>  |          |
| 21 31 13 00-0005 | EA |  | 50 HP Electric Fire Pump.....         | 119,234.32        | 3,752.97 |
|                  |    |  | <i>For Duplex Pumping System, Add</i> | <i>115,481.36</i> |          |
| 21 31 13 00-0006 | EA |  | 75 HP Electric Fire Pump.....         | 133,084.69        | 4,094.14 |
|                  |    |  | <i>For Duplex Pumping System, Add</i> | <i>128,990.54</i> |          |

**21 31 16 Diesel-Drive, Centrifugal Fire Pumps** <sup>(21 31)</sup>

**21 31 16 00-0001 Diesel-Drive Fire Pumps** <sup>(21 31 16)</sup>

Note: Pumps shall be stand alone units meeting NFPA-20 specs. Includes fire pump, motor, motor starter, alarm panel, and controller.

|                  |    |  |   |            |           |
|------------------|----|--|---|------------|-----------|
| 21 31 16 00-0002 | EA |  | 30 HP Diesel Driven Fire Pump, NFPA-20 Specific.....  | 89,558.94  | 3,070.61  |
| 21 31 16 00-0003 | EA |  | 40 HP Diesel Driven Fire Pump, NFPA-20 Specific.....  | 101,300.30 | 3,411.79  |
| 21 31 16 00-0004 | EA |  | 50 HP Diesel Driven Fire Pump, NFPA-20 Specific.....  | 106,466.62 | 3,752.97  |
| 21 31 16 00-0005 | EA |  | 75 HP Diesel Driven Fire Pump, NFPA-20 Specific.....  | 121,126.50 | 4,094.14  |
| 21 31 16 00-0006 | EA |  | 150 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 128,641.42 | 4,776.50  |
| 21 31 16 00-0007 | EA |  | 175 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 138,639.04 | 6,141.22  |
| 21 31 16 00-0008 | EA |  | 200 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 150,514.84 | 6,823.58  |
| 21 31 16 00-0009 | EA |  | 250 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 172,105.90 | 7,778.88  |
| 21 31 16 00-0010 | EA |  | 300 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 205,985.61 | 8,393.00  |
| 21 31 16 00-0011 | EA |  | 350 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 241,627.54 | 9,553.01  |
| 21 31 16 00-0012 | EA |  | 400 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 286,602.34 | 10,235.37 |
| 21 31 16 00-0013 | EA |  | 500 HP Diesel Driven Fire Pump, NFPA-20 Specific..... | 322,631.26 | 10,917.73 |

|    |           |                         |
|----|-----------|-------------------------|
| 21 | <b>21</b> | <b>Fire Suppression</b> |
|    | 21 30     | Fire Pumps              |
|    | 21 31     | Centrifugal Fire Pumps  |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**END OF SECTION 21**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

### 22 01 Operation and Maintenance of Plumbing <sup>(22)</sup>

#### 22 01 10 Operation and Maintenance of Plumbing Piping and Pumps <sup>(22 01)</sup>

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

##### 22 01 10 61 Plumbing Piping Repairs <sup>(22 01 10)</sup>

##### 22 01 10 61-0001 Pipe Repair Clamps <sup>(22 01 10 61)</sup>

|                  |    |   |        |
|------------------|----|---|--------|
| 22 01 10 61-0002 | EA | 1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket     | 49.19  |
| 22 01 10 61-0003 | EA | 3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket     | 51.51  |
| 22 01 10 61-0004 | EA | 1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket       | 56.68  |
| 22 01 10 61-0005 | EA | 1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket   | 60.62  |
| 22 01 10 61-0006 | EA | 1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket   | 65.92  |
| 22 01 10 61-0007 | EA | 2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket       | 84.30  |
| 22 01 10 61-0008 | EA | 2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket   | 108.57 |
| 22 01 10 61-0009 | EA | 3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket       | 127.05 |
| 22 01 10 61-0010 | EA | 4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt<br>Note: Includes neoprene gasket       | 145.90 |
| 22 01 10 61-0011 | EA | 1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket     | 76.82  |
| 22 01 10 61-0012 | EA | 3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket     | 81.32  |
| 22 01 10 61-0013 | EA | 1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket       | 90.05  |
| 22 01 10 61-0014 | EA | 1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket   | 98.97  |
| 22 01 10 61-0015 | EA | 1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket   | 109.33 |
| 22 01 10 61-0016 | EA | 2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket       | 141.42 |
| 22 01 10 61-0017 | EA | 2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket   | 173.99 |
| 22 01 10 61-0018 | EA | 3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket       | 199.73 |
| 22 01 10 61-0019 | EA | 4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt<br>Note: Includes neoprene gasket       | 227.10 |
| 22 01 10 61-0020 | EA | 1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket   | 108.40 |
| 22 01 10 61-0021 | EA | 3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket   | 113.29 |
| 22 01 10 61-0022 | EA | 1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket     | 125.22 |
| 22 01 10 61-0023 | EA | 1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket | 137.37 |
| 22 01 10 61-0024 | EA | 1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket | 155.18 |
| 22 01 10 61-0025 | EA | 2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket     | 190.65 |
| 22 01 10 61-0026 | EA | 2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket | 227.36 |
| 22 01 10 61-0027 | EA | 3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket     | 274.76 |
| 22 01 10 61-0028 | EA | 4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket     | 336.99 |
| 22 01 10 61-0029 | EA | 5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket     | 346.46 |
| 22 01 10 61-0030 | EA | 6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt<br>Note: Includes Buna rubber gasket     | 370.99 |

#### 22 01 40 Operation and Maintenance of Plumbing Fixtures <sup>(22 01)</sup>

##### 22 01 40 81 Plumbing Fixtures Replacement <sup>(22 01 40)</sup>

##### 22 01 40 81-0001 Removal And Replacement Of Fixture And/or Trim <sup>(22 01 40 81)</sup>

Note: Includes removal of existing item(s) and installation of new item(s). See CSI section 22 42 00 00-0000 for faucet replacement installation and demolition prices.

|                  |    |  |       |
|------------------|----|--|-------|
| 22 01 40 81-0002 | EA | Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube           | 77.12 |
| 22 01 40 81-0003 | EA | Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory | 26.64 |



**22 Plumbing****22 01 Operation and Maintenance of Plumbing****22 01 40 Operation and Maintenance of Plumbing Fixtures**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |    |  |        |  |
|------------------|----|--|--------|--|
| 22 01 40 81-0004 | EA | Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair .....  | 36.86  |  |
| 22 01 40 81-0005 | EA | Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line .....  | 52.17  |  |
| 22 01 40 81-0006 | EA | Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line .....  | 80.51  |  |
| 22 01 40 81-0007 | EA | Removal And Replacement Of Shower Head, Polished Chrome .....  | 48.10  |  |
| 22 01 40 81-0008 | EA | Removal And Replacement Of Shower Arm .....  | 47.14  |  |
| 22 01 40 81-0009 | EA | Removal And Replacement Of Shower Head .....   | 52.49  |  |
| 22 01 40 81-0010 | EA | Removal And Replacement Of Shower Knob .....   | 44.46  |  |
| 22 01 40 81-0011 | EA | Removal And Replacement Of Shower and Tub Control Trim .....   | 135.35 |  |
|                  |    | Note: Excludes balancing valve.  |        |  |
| 22 01 40 81-0012 | EA | Removal And Replacement Of Sink Basket Strainer .....  | 34.85  |  |
| 22 01 40 81-0013 | EA | Removal And Replacement Of 1-1/2" Sink Drain Without Stopper .....   | 19.56  |  |
| 22 01 40 81-0014 | EA | Removal And Replacement Of 4-1/2" Sink Drain Without Stopper .....   | 20.45  |  |
| 22 01 40 81-0015 | EA | Removal And Replacement Of 1-1/2" Sink Drain With Stopper .....  | 19.56  |  |
| 22 01 40 81-0016 | EA | Removal And Replacement Of 1" Sink Rubber Stopper .....  | 11.62  |  |
| 22 01 40 81-0017 | EA | Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8" .....   | 34.37  |  |
| 22 01 40 81-0018 | EA | Removal And Replacement Of Sink Trap, Adjustable, 1-1/2" .....   | 54.72  |  |
| 22 01 40 81-0019 | EA | Removal And Replacement Of Lavatory Pop-Up Rod .....   | 33.49  |  |
| 22 01 40 81-0020 | EA | Removal And Replacement Of Lavatory Pop-up Drain Stopper .....   | 40.08  |  |
| 22 01 40 81-0021 | EA | Removal And Replacement Of Faucet Handle .....   | 44.47  |  |
| 22 01 40 81-0022 | EA | Removal And Replacement Of Faucet O-Ring .....   | 34.78  |  |
| 22 01 40 81-0023 | EA | Removal And Replacement Of 1-1/2" Faucet Hole Cover .....  | 24.33  |  |
| 22 01 40 81-0024 | EA | Removal And Replacement Of Toilet Ballcock .....   | 48.08  |  |
| 22 01 40 81-0025 | EA | Removal And Replacement Of Toilet Bowl Ring, Flat Wax .....  | 9.26   |  |
|                  |    | Note: Excludes removal of toilet.  |        |  |
| 22 01 40 81-0026 | EA | Removal And Replacement Of Toilet Tank .....   | 183.97 |  |
| 22 01 40 81-0027 | EA | Removal And Replacement Of 10" Toilet Bowl .....   | 239.97 |  |
| 22 01 40 81-0028 | EA | Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl .....  | 254.91 |  |
| 22 01 40 81-0029 | EA | Removal And Replacement Of 12" Toilet Bowl .....   | 269.33 |  |
| 22 01 40 81-0030 | EA | Removal And Replacement Of 18", Elongated, Toilet Bowl .....   | 244.99 |  |
| 22 01 40 81-0031 | EA | Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers .....                                  | 31.25  |  |
| 22 01 40 81-0032 | EA | Removal And Replacement Of Toilet Flapper With Chain .....   | 21.58  |  |
| 22 01 40 81-0033 | EA | Removal And Replacement Of Toilet Flush Tank Lever .....   | 23.82  |  |
| 22 01 40 81-0034 | EA | Removal And Replacement Of Elongated Toilet Seat With Lid .....  | 114.08 |  |
| 22 01 40 81-0035 | EA | Removal And Replacement Of Elongated Toilet Seat Without Lid .....   | 108.56 |  |
| 22 01 40 81-0036 | EA | Removal And Replacement Of Handicap Toilet Seat, Complete With Rails .....   | 167.90 |  |
| 22 01 40 81-0037 | EA | Removal And Replacement Of Diverter Tub Spout .....  | 64.68  |  |
| 22 01 40 81-0038 | EA | Removal And Replacement Of Tub Spout .....   | 48.34  |  |
| 22 01 40 81-0039 | EA | Removal And Replacement Of 2" Tub Stopper .....  | 13.76  |  |
| 22 01 40 81-0040 | EA | Removal And Replacement Of Tub Waste/Overflow .....  | 91.99  |  |
| 22 01 40 81-0041 | EA | Removal And Replacement Of Tub Stem Bonnet Assembly .....  | 49.51  |  |
| 22 01 40 81-0042 | EA | Removal And Replacement Of Faucet Bonnet .....   | 53.58  |  |
| 22 01 40 81-0043 | EA | Removal And Replacement Of Faucet Diverter Stem .....  | 34.01  |  |
| 22 01 40 81-0044 | EA | Removal And Replacement Of Faucet Diverter Stem And Bonnet .....   | 44.62  |  |
| 22 01 40 81-0045 | EA | Removal And Replacement Of Faucet Spout .....  | 49.54  |  |
| 22 01 40 81-0046 | EA | Removal And Replacement Of Faucet Stem .....   | 36.97  |  |
| 22 01 40 81-0047 | EA | Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler<br>Guard ..... | 216.05 |  |
| 22 01 40 81-0048 | EA | Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve .....                                  | 266.10 |  |
| 22 01 40 81-0049 | EA | Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve .....                | 170.04 |  |

**22 05 Common Work Results for Plumbing** <sup>(22)</sup>**22 05 13 Common Motor Requirements for Plumbing Equipment** <sup>(22 05)</sup>

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

**22 05 16 Expansion Fittings and Loops for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

**22 05 17 Sleeves and Sleeve Seals for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

**22 05 19 Meters and Gages for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 19 00-0000 for gages, 33 19 00 00-0000 for water utility service metering.

**22 05 23 General-Duty Valves for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 23 00-0000 for additional valves.

**22 05 23 00-0001 Gate Valves** <sup>(22 05 23)</sup>**22 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves** <sup>(22 05 23 00-0001)</sup>

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 22 05 23 00-0003 | EA | 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve ..... | 97.78  | 15.31 |
|                  |    | For 150 LB Rating, Add .....                                     | 5.32   |       |
|                  |    | For 200 LB Rating, Add .....                                     | 7.98   |       |
|                  |    | For Work In Restricted Working Space, Add .....                  | 13.38  |       |
| 22 05 23 00-0004 | EA | 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve ..... | 100.12 | 15.31 |
|                  |    | For 150 LB Rating, Add .....                                     | 5.32   |       |
|                  |    | For 200 LB Rating, Add .....                                     | 7.98   |       |
|                  |    | For Work In Restricted Working Space, Add .....                  | 14.08  |       |



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                      | DEMOLITION UNIT COST |
|---|-----|-----|---|---|----------------------|
| 22 05 23 00-0005  | EA  |     | 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 102.90<br>5.35<br>8.03<br>14.82             | 15.31                |
| 22 05 23 00-0006  | EA  |     | 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 124.07<br>5.75<br>8.63<br>19.97             | 16.85                |
| 22 05 23 00-0007  | EA  |     | 1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 151.03<br>7.04<br>10.56<br>24.18            | 19.14                |
| 22 05 23 00-0008  | EA  |     | 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 217.09<br>11.50<br>17.25<br>30.63           | 20.37                |
| 22 05 23 00-0009  | EA  |     | 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 242.78<br>12.50<br>18.75<br>35.34           | 23.58                |
| 22 05 23 00-0010  | EA  |     | 2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 290.64<br>15.14<br>22.71<br>41.76           | 27.87                |
| 22 05 23 00-0011  | EA  |     | 2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Chain Operated Type, Add</i> | 627.21<br>43.92<br>65.89<br>56.39<br>197.66 | 37.64                |
| 22 05 23 00-0012  | EA  |     | 3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 735.20<br>51.83<br>77.75<br>65.07           | 43.70                |
| <b>22 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves</b> <small>(22 05 23 00-0001)</small> |     |     |   |   |                      |
| Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)            |     |     |   |   |                      |
| 22 05 23 00-0014  | EA  |     | 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                | 115.50<br>7.09<br>10.64<br>13.38            | 15.31                |
| 22 05 23 00-0015  | EA  |     | 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                | 117.69<br>7.08<br>10.61<br>14.08            | 15.31                |
| 22 05 23 00-0016  | EA  |     | 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                | 135.65<br>8.63<br>12.94<br>14.82            | 15.31                |
| 22 05 23 00-0017  | EA  |     | 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                | 156.82<br>9.03<br>13.54<br>19.97            | 16.85                |
| 22 05 23 00-0018  | EA  |     | 1" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                  | 188.40<br>10.78<br>16.17<br>24.18           | 19.14                |
| 22 05 23 00-0019  | EA  |     | 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                              | 268.20<br>16.61<br>24.92<br>30.63           | 20.37                |
| 22 05 23 00-0020  | EA  |     | 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                              | 307.07<br>18.93<br>28.39<br>35.34           | 23.58                |
| 22 05 23 00-0021  | EA  |     | 2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                  | 389.97<br>25.08<br>37.61<br>41.76           | 27.87                |
| <b>22 05 23 00-0022 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves</b> <small>(22 05 23 00-0001)</small>      |     |     |   |   |                      |
| Note: 200 psi cold working pressure.  |     |     |   |   |                      |
| 22 05 23 00-0023  | EA  |     | 1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 136.12<br>10.34                             | 15.31                |
| 22 05 23 00-0024  | EA  |     | 3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 153.38<br>11.77                             | 16.85                |
| 22 05 23 00-0025  | EA  |     | 1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 200.61<br>14.07                             | 19.14                |
| 22 05 23 00-0026  | EA  |     | 1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 270.99<br>15.50                             | 20.37                |
| 22 05 23 00-0027  | EA  |     | 1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 313.64<br>17.23                             | 23.58                |
| 22 05 23 00-0028  | EA  |     | 2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 429.60<br>20.67                             | 27.87                |

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 05 23 00-0029 Ball Valves</b> (22 05 23)   |                           |                         |
| <b>22 05 23 00-0030 Crimped Bronze, Ball Valves</b> (22 05 23 00-0029)                               |                           |                         |
| <b>22 05 23 00-0031 Crimped Bronze, 250 PSI, Ball Valves</b> (22 05 23 00-0030)                      |                           |                         |
| Note: Nibco®   |                           |                         |
| 22 05 23 00-0032 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve .....95.86                              |                           | 15.31                   |
| For Work In Restricted Working Space, Add  | 10.34                     |                         |
| 22 05 23 00-0033 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve .....122.91                             |                           | 16.85                   |
| For Work In Restricted Working Space, Add  | 11.77                     |                         |
| 22 05 23 00-0034 EA 1" Crimped Bronze, 250 PSI, Ball Valve .....157.02                               |                           | 19.14                   |
| For Work In Restricted Working Space, Add  | 14.07                     |                         |
| 22 05 23 00-0035 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve .....248.66                           |                           | 20.37                   |
| For Work In Restricted Working Space, Add  | 15.50                     |                         |
| 22 05 23 00-0036 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve .....326.39                           |                           | 23.58                   |
| For Work In Restricted Working Space, Add  | 17.23                     |                         |
| 22 05 23 00-0037 EA 2" Crimped Bronze, 250 PSI, Ball Valve .....488.23                               |                           | 27.87                   |
| For Work In Restricted Working Space, Add  | 20.67                     |                         |
| <b>22 05 23 00-0038 Crimped Bronze, 200 PSI, Full Port Ball Valves</b> (22 05 23 00-0030)            |                           |                         |
| 22 05 23 00-0039 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....60.94             |                           | 15.31                   |
| For Work In Restricted Working Space, Add  | 10.34                     |                         |
| 22 05 23 00-0040 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....76.46             |                           | 16.85                   |
| For Work In Restricted Working Space, Add  | 11.77                     |                         |
| 22 05 23 00-0041 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....92.71               |                           | 19.14                   |
| For Work In Restricted Working Space, Add  | 14.07                     |                         |
| 22 05 23 00-0042 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....126.14          |                           | 20.37                   |
| For Work In Restricted Working Space, Add  | 15.50                     |                         |
| 22 05 23 00-0043 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....160.51          |                           | 23.58                   |
| For Work In Restricted Working Space, Add  | 17.23                     |                         |
| 22 05 23 00-0044 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....233.57              |                           | 27.87                   |
| For Work In Restricted Working Space, Add  | 20.67                     |                         |
| <b>22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves</b> (22 05 23 00-0030)            |                           |                         |
| 22 05 23 00-0046 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....68.82             |                           | 15.31                   |
| For Work In Restricted Working Space, Add  | 10.34                     |                         |
| 22 05 23 00-0047 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....82.19             |                           | 16.85                   |
| For Work In Restricted Working Space, Add  | 11.77                     |                         |
| 22 05 23 00-0048 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....101.87              |                           | 19.14                   |
| For Work In Restricted Working Space, Add  | 14.07                     |                         |
| 22 05 23 00-0049 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....154.76          |                           | 20.37                   |
| For Work In Restricted Working Space, Add  | 15.50                     |                         |
| 22 05 23 00-0050 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....222.09          |                           | 23.58                   |
| For Work In Restricted Working Space, Add  | 17.23                     |                         |
| 22 05 23 00-0051 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....305.15              |                           | 27.87                   |
| For Work In Restricted Working Space, Add  | 20.67                     |                         |
| <b>22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves</b> (22 05 23 00-0030) |                           |                         |
| 22 05 23 00-0053 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve .....66.67  |                           | 15.31                   |
| For Work In Restricted Working Space, Add  | 10.34                     |                         |
| 22 05 23 00-0054 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve .....80.19  |                           | 16.85                   |
| For Work In Restricted Working Space, Add  | 11.77                     |                         |
| 22 05 23 00-0055 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve .....97.29    |                           | 19.14                   |
| For Work In Restricted Working Space, Add  | 14.07                     |                         |
| <b>22 05 23 00-0056 Check Valves</b> (22 05 23)  |                           |                         |
| <b>22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves</b> (22 05 23 00-0056)    |                           |                         |
| Note: Nibco®   |                           |                         |
| 22 05 23 00-0058 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....176.35                  |                           | 15.31                   |
| For Work In Restricted Working Space, Add  | 10.34                     |                         |
| 22 05 23 00-0059 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....223.50                  |                           | 16.85                   |
| For Work In Restricted Working Space, Add  | 11.77                     |                         |
| 22 05 23 00-0060 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....307.38                    |                           | 19.14                   |
| For Work In Restricted Working Space, Add  | 14.07                     |                         |
| 22 05 23 00-0061 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....407.47                |                           | 20.37                   |
| For Work In Restricted Working Space, Add  | 15.50                     |                         |
| 22 05 23 00-0062 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....485.23                |                           | 23.58                   |
| For Work In Restricted Working Space, Add  | 17.23                     |                         |
| 22 05 23 00-0063 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....691.55                    |                           | 27.87                   |
| For Work In Restricted Working Space, Add  | 20.67                     |                         |
| <b>22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves</b> (22 05 23 00-0056)            |                           |                         |
| 22 05 23 00-0065 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve .....54.90                     |                           | 15.31                   |
| For Work In Restricted Working Space, Add  | 10.34                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 05 23 00-0066 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....  | 65.40                     | 16.85                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.77                     |                         |
| 22 05 23 00-0067 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve.....  | 77.04                     | 19.14                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.07                     |                         |
| 22 05 23 00-0068 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....  | 95.28                     | 20.37                   |
| <i>For Work In Restricted Working Space, Add</i>  | 15.50                     |                         |
| 22 05 23 00-0069 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....  | 119.32                    | 23.58                   |
| <i>For Work In Restricted Working Space, Add</i>  | 17.23                     |                         |
| 22 05 23 00-0070 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve.....  | 181.55                    | 27.87                   |
| <i>For Work In Restricted Working Space, Add</i>  | 20.67                     |                         |
| <b>22 05 23 00-0071 Butterfly Valves (22 05 23)</b>   |                           |                         |
| <b>22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve (22 05 23 00-0071)</b>  |                           |                         |
| 22 05 23 00-0073 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....   | 1,279.35                  | 40.88                   |
| <i>For Work In Restricted Working Space, Add</i>  | 24.12                     |                         |
| 22 05 23 00-0074 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....   | 1,386.90                  | 47.47                   |
| <i>For Work In Restricted Working Space, Add</i>  | 28.71                     |                         |
| 22 05 23 00-0075 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....   | 1,735.18                  | 53.60                   |
| <i>For Work In Restricted Working Space, Add</i>  | 37.90                     |                         |
| <b>22 05 23 00-0076 Earthquake-Sensitive Gas Shut-Off Valve (22 05 23)</b>  |                           |                         |
| <b>22 05 23 00-0077 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>   |                           |                         |
| 22 05 23 00-0078 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....   | 180.93                    | 16.85                   |
| 22 05 23 00-0079 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....   | 206.50                    | 19.14                   |
| <b>22 05 23 00-0080 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>   |                           |                         |
| 22 05 23 00-0081 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....   | 243.73                    | 20.37                   |
| 22 05 23 00-0082 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....   | 322.38                    | 23.58                   |
| <b>22 05 23 00-0083 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>  |                           |                         |
| 22 05 23 00-0084 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 218.70                    | 16.85                   |
| 22 05 23 00-0085 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 232.73                    | 19.14                   |
| 22 05 23 00-0086 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 264.72                    | 20.37                   |
| 22 05 23 00-0087 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 353.86                    | 23.58                   |
| 22 05 23 00-0088 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 768.73                    | 27.87                   |
| 22 05 23 00-0089 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 921.80                    | 37.51                   |
| 22 05 23 00-0090 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 1,187.40                  | 43.70                   |
| 22 05 23 00-0091 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....  | 1,374.62                  | 49.34                   |
| <b>22 05 23 00-0092 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>   |                           |                         |
| 22 05 23 00-0093 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....  | 1,094.58                  | 204.13                  |
| 22 05 23 00-0094 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....  | 1,343.91                  | 239.67                  |
| 22 05 23 00-0095 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....  | 1,919.92                  | 401.80                  |
| 22 05 23 00-0096 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....  | 3,029.75                  | 449.69                  |
| 22 05 23 00-0097 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....  | 7,953.28                  | 574.61                  |
| <b>22 05 23 00-0098 Emergency Shut-Off Valve With Fusible Link (22 05 23)</b>   |                           |                         |
| <b>22 05 23 00-0099 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) (22 05 23 00-0098)</b>   |                           |                         |
| Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F. |                           |                         |
| 22 05 23 00-0100 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....   | 94.52                     | 24.66                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.38                     |                         |
| 22 05 23 00-0101 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....   | 96.92                     | 26.03                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.10                     |                         |
| 22 05 23 00-0102 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....   | 152.14                    | 24.66                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.82                     |                         |
| 22 05 23 00-0103 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....   | 294.71                    | 33.23                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.97                     |                         |
| 22 05 23 00-0104 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....   | 727.39                    | 40.27                   |
| <i>For Work In Restricted Working Space, Add</i>  | 24.18                     |                         |
| <b>22 05 23 00-0105 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0098)</b>  |                           |                         |
| Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.   |                           |                         |
| 22 05 23 00-0106 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....  | 564.54                    | 23.58                   |
| 22 05 23 00-0107 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....  | 611.16                    | 27.87                   |
| 22 05 23 00-0108 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....  | 1,023.51                  | 43.70                   |

**22 Plumbing**

**22 05 Common Work Results for Plumbing**

**22 05 23 General-Duty Valves for Plumbing Piping**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |          |        |
|------------------|--|----------|--------|
| 22 05 23 00-0109 | Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)<br><small>(22 05 23 00-0098)</small><br>Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring. |          |        |
| 22 05 23 00-0110 | EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....   | 736.68   | 204.13 |
| 22 05 23 00-0111 | EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....   | 1,162.82 | 239.67 |
| 22 05 23 00-0112 | EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....   | 2,601.37 | 401.80 |

**22 05 29 Hangers and Supports for Plumbing Piping and Equipment** (22 05)

See CSI section 23 05 29 00-0000 for hangers and supports.

**22 05 33 Heat Tracing for Plumbing Piping** (22 05)

See CSI section 23 83 13 00-0000 for heat tracing cables.

**22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment** (22 05)

**22 05 48 13 Vibration Controls for Plumbing Piping and Equipment** (22 05 48)

See CSI section 23 05 48 13-0000 for vibration and seismic control.

**22 05 53 Identification for Plumbing Piping and Equipment** (22 05)

See CSI section 23 05 53 00-0000 for identification.

**22 05 76 Facility Drainage Piping Cleanouts** (22 05)

**22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover** (22 05 76)

Note: For floor installation.

**22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover** (22 05 76 00-0001)

|                  |   |          |        |
|------------------|---|----------|--------|
| 22 05 76 00-0003 | EA 2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 714.48   | 81.46  |
|                  | <i>For Vandal Proof, Add</i>  | 19.50    |        |
|                  | <i>For Galvanized Ferrule, Add</i>  | 45.00    |        |
|                  | <i>For Carpet Marker, Add</i>   | 16.00    |        |
|                  | <i>For Carpet Flange, Add</i>   | 58.50    |        |
|                  | <i>For Wide Flange, Add</i>   | 97.00    |        |
|                  | <i>For Satin Bronze Top, Deduct</i>   | -24.00   |        |
| 22 05 76 00-0004 | EA 3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 778.68   | 102.14 |
|                  | <i>For Vandal Proof, Add</i>  | 19.50    |        |
|                  | <i>For Galvanized Ferrule, Add</i>  | 45.00    |        |
|                  | <i>For Carpet Marker, Add</i>   | 16.00    |        |
|                  | <i>For Carpet Flange, Add</i>   | 58.50    |        |
|                  | <i>For Wide Flange, Add</i>   | 97.00    |        |
|                  | <i>For Satin Bronze Top, Deduct</i>   | -24.00   |        |
| 22 05 76 00-0005 | EA 4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 970.43   | 123.42 |
|                  | <i>For Vandal Proof, Add</i>  | 19.50    |        |
|                  | <i>For Galvanized Ferrule, Add</i>  | 45.00    |        |
|                  | <i>For Carpet Marker, Add</i>   | 16.00    |        |
|                  | <i>For Carpet Flange, Add</i>   | 58.50    |        |
|                  | <i>For Wide Flange, Add</i>   | 97.00    |        |
|                  | <i>For Satin Bronze Top, Deduct</i>   | -24.00   |        |
| 22 05 76 00-0006 | EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 1,374.38 | 138.13 |
|                  | <i>For Vandal Proof, Add</i>  | 19.50    |        |
|                  | <i>For Galvanized Ferrule, Add</i>  | 45.00    |        |
|                  | <i>For Carpet Marker, Add</i>   | 16.00    |        |
|                  | <i>For Carpet Flange, Add</i>   | 58.50    |        |
|                  | <i>For Wide Flange, Add</i>   | 97.00    |        |
|                  | <i>For Satin Bronze Top, Deduct</i>   | -24.00   |        |
| 22 05 76 00-0007 | EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 1,682.18 | 149.61 |
|                  | <i>For Vandal Proof, Add</i>  | 19.50    |        |
|                  | <i>For Galvanized Ferrule, Add</i>  | 45.00    |        |
|                  | <i>For Carpet Marker, Add</i>   | 16.00    |        |
|                  | <i>For Carpet Flange, Add</i>   | 58.50    |        |
|                  | <i>For Wide Flange, Add</i>   | 97.00    |        |
|                  | <i>For Satin Bronze Top, Deduct</i>   | -24.00   |        |

**22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover** (22 05 76 00-0001)

|                  |  |        |        |
|------------------|--|--------|--------|
| 22 05 76 00-0009 | EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 817.60 | 81.46  |
|                  | <i>For Vandal Proof, Add</i>   | 19.50  |        |
|                  | <i>For Galvanized Ferrule, Add</i>   | 45.00  |        |
|                  | <i>For Carpet Marker, Add</i>  | 16.00  |        |
|                  | <i>For Carpet Flange, Add</i>  | 58.50  |        |
|                  | <i>For Wide Flange, Add</i>  | 97.00  |        |
|                  | <i>For Satin Bronze Top, Deduct</i>  | -24.00 |        |
| 22 05 76 00-0010 | EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 883.43 | 102.14 |
|                  | <i>For Vandal Proof, Add</i>   | 19.50  |        |
|                  | <i>For Galvanized Ferrule, Add</i>   | 45.00  |        |
|                  | <i>For Carpet Marker, Add</i>  | 16.00  |        |
|                  | <i>For Carpet Flange, Add</i>  | 58.50  |        |
|                  | <i>For Wide Flange, Add</i>  | 97.00  |        |
|                  | <i>For Satin Bronze Top, Deduct</i>  | -24.00 |        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 1,075.18                  | 123.42                  |
| <i>For Vandal Proof, Add</i>  | 19.50                     |                         |
| <i>For Galvanized Ferrule, Add</i>  | 45.00                     |                         |
| <i>For Carpet Marker, Add</i>   | 16.00                     |                         |
| <i>For Carpet Flange, Add</i>   | 58.50                     |                         |
| <i>For Wide Flange, Add</i>   | 97.00                     |                         |
| <i>For Satin Bronze Top, Deduct</i>   | -24.00                    |                         |
| 22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 1,479.13                  | 138.13                  |
| <i>For Vandal Proof, Add</i>  | 19.50                     |                         |
| <i>For Galvanized Ferrule, Add</i>  | 45.00                     |                         |
| <i>For Carpet Marker, Add</i>   | 16.00                     |                         |
| <i>For Carpet Flange, Add</i>   | 58.50                     |                         |
| <i>For Wide Flange, Add</i>   | 97.00                     |                         |
| <i>For Satin Bronze Top, Deduct</i>   | -24.00                    |                         |
| 22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... | 1,786.93                  | 149.61                  |
| <i>For Vandal Proof, Add</i>  | 19.50                     |                         |
| <i>For Galvanized Ferrule, Add</i>  | 45.00                     |                         |
| <i>For Carpet Marker, Add</i>   | 16.00                     |                         |
| <i>For Carpet Flange, Add</i>   | 58.50                     |                         |
| <i>For Wide Flange, Add</i>   | 97.00                     |                         |
| <i>For Satin Bronze Top, Deduct</i>   | -24.00                    |                         |
| <b>22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)</b>  |                           |                         |
| Note: Cover and screw only.   |                           |                         |
| <b>22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)</b>  |                           |                         |
| Note: Cover and screw only.   |                           |                         |
| 22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....   | 113.24                    | 25.57                   |
| <i>For Stainless Steel, Add</i>   | 9.00                      |                         |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| 22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....   | 123.46                    | 30.63                   |
| <i>For Stainless Steel, Add</i>   | 9.00                      |                         |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| 22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....   | 155.66                    | 34.46                   |
| <i>For Stainless Steel, Add</i>   | 9.00                      |                         |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| 22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....   | 254.97                    | 38.28                   |
| <i>For Stainless Steel, Add</i>   | 9.00                      |                         |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| 22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....  | 377.21                    | 42.11                   |
| <i>For Stainless Steel, Add</i>   | 9.00                      |                         |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <b>22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)</b>  |                           |                         |
| Note: Cover and screw only.   |                           |                         |
| 22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover.....  | 549.73                    | 25.57                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover.....  | 787.78                    | 26.80                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover.....  | 841.63                    | 28.33                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover.....  | 941.63                    | 32.16                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| <b>22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)</b>                                |                           |                         |
| Note: Cover and screw only.   |                           |                         |
| 22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel.....   | 559.48                    | 25.57                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel.....   | 802.14                    | 26.80                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel.....   | 856.99                    | 28.33                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel.....   | 958.79                    | 32.16                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| <b>22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014)</b>                    |                           |                         |
| Note: Cover and screw only.   |                           |                         |
| 22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....  | 543.01                    | 25.57                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |
| 22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....  | 748.00                    | 26.80                   |
| <i>For Vandal Proof Screws, Add</i>   | 19.50                     |                         |
| <i>For Nickel Bronze, Add</i>   | 22.50                     |                         |

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|----------------------------|-------------------------|
| 22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated<br><i>For Vandal Proof Screws, Add</i><br><i>For Nickel Bronze, Add</i>                                 | 1,057.07<br>19.50<br>22.50 | 28.33                   |
| 22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated<br><i>For Vandal Proof Screws, Add</i><br><i>For Nickel Bronze, Add</i>                                 | 1,278.92<br>19.50<br>22.50 | 32.16                   |
| <b>22 05 76 00-0036 Cast Iron Cleanout Tee (22 05 76)</b>   |                            |                         |
| <b>22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036)</b><br>Note: Satin smooth secured cover.   |                            |                         |
| 22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>     | 529.04<br>18.00<br>45.00   | 81.46                   |
| 22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>     | 608.39<br>18.00<br>45.00   | 101.99                  |
| 22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>     | 790.13<br>18.00<br>45.00   | 123.42                  |
| 22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>     | 1,824.38<br>18.00<br>45.00 | 149.61                  |
| <b>22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036)</b><br>Note: Satin smooth secured cover.  |                            |                         |
| 22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 895.18<br>18.00<br>45.00   | 81.46                   |
| 22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 974.53<br>18.00<br>45.00   | 101.99                  |
| 22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 1,131.97<br>18.00<br>45.00 | 123.42                  |
| 22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover<br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 2,318.93<br>18.00<br>45.00 | 149.61                  |
| <b>22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)</b>   |                            |                         |
| 22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug   | 433.47                     | 66.62                   |
| 22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug   | 483.90                     | 72.74                   |
| 22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug   | 644.39                     | 95.71                   |
| 22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug   | 955.57                     | 113.32                  |
| 22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug   | 1,604.36                   | 133.99                  |
| <b>22 05 76 00-0053 Removable Cleanout Plug (22 05 76)</b>  |                            |                         |
| <b>22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)</b>  |                            |                         |
| 22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 89.89<br>9.50              | 19.14                   |
| 22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 107.01<br>9.50             | 20.83                   |
| 22 05 76 00-0057 EA 3" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 179.38<br>9.50             | 22.97                   |
| 22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 201.09<br>9.50             | 26.80                   |
| 22 05 76 00-0059 EA 4" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 227.47<br>9.50             | 30.63                   |
| 22 05 76 00-0060 EA 5" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 317.03<br>9.50             | 34.46                   |
| 22 05 76 00-0061 EA 6" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 462.72<br>9.50             | 38.28                   |
| 22 05 76 00-0062 EA 8" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>   | 774.40<br>9.50             | 42.11                   |
| 22 05 76 00-0063 EA 10" Threaded Bronze Plug<br><i>For Plug Tapped For Center Screw, Add</i>  | 1,109.58<br>9.50           | 45.94                   |
| <b>22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)</b>   |                            |                         |
| 22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head<br><i>For Plug Tapped For Center Screw, Add</i>   | 41.74<br>9.50              | 19.14                   |
| 22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head<br><i>For Plug Tapped For Center Screw, Add</i>   | 42.35<br>9.50              | 19.14                   |
| 22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head<br><i>For Plug Tapped For Center Screw, Add</i>   | 46.10<br>9.50              | 20.83                   |
| 22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head<br><i>For Plug Tapped For Center Screw, Add</i>   | 52.01<br>9.50              | 22.97                   |
| 22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head<br><i>For Plug Tapped For Center Screw, Add</i>   | 61.30<br>9.50              | 26.80                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head .....          | 71.69                     | 30.63                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head .....      | 76.86                     | 32.25                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head .....          | 82.41                     | 34.46                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head .....          | 104.70                    | 38.28                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head ..... | 41.27                     | 19.14                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head .....     | 41.94                     | 19.14                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head ..... | 47.41                     | 20.83                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head .....     | 52.20                     | 22.97                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head ..... | 60.74                     | 26.80                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head .....     | 70.80                     | 30.63                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head .....     | 81.93                     | 34.46                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |
| 22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head .....     | 96.85                     | 38.28                   |
| For Plug Tapped For Center Screw, Add                                  | 9.50                      |                         |

**22 07 Plumbing Insulation** <sup>(22)</sup>

**22 07 16 Plumbing Equipment Insulation** <sup>(22 07)</sup>

|  |        |       |
|--|--------|-------|
| 22 07 16 00-0001 Lavatory Insulation <sup>(22 07 16)</sup>             |        |       |
| 22 07 16 00-0002 EA Neoprene Insulation Kit For Under Lavatories ..... | 344.67 | 32.76 |

**22 07 19 Plumbing Piping Insulation** <sup>(22 07)</sup>

|  |       |      |
|--|-------|------|
| 22 07 19 00-0001 Fiberglass (Glass Fiber) Pipe Insulation <sup>(22 07 19)</sup>  |       |      |
| <p>Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves &gt;3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</p> |       |      |
| 22 07 19 00-0002 1/2" Thick Fiberglass Pipe Insulation <sup>(22 07 19 00-0001)</sup>   |       |      |
| 22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 10.49 | 3.21 |
| For Single Layer Of Felt Finish, Add   | 0.19  |      |
| For Work In Restricted Working Space, Add  | 2.60  |      |
| 22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 10.68 | 3.21 |
| For Single Layer Of Felt Finish, Add   | 0.21  |      |
| For Work In Restricted Working Space, Add  | 2.60  |      |
| 22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 11.35 | 3.35 |
| For Single Layer Of Felt Finish, Add   | 0.23  |      |
| For Work In Restricted Working Space, Add  | 2.76  |      |
| 22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 11.74 | 3.50 |
| For Single Layer Of Felt Finish, Add   | 0.25  |      |
| For Work In Restricted Working Space, Add  | 2.81  |      |
| 22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 12.05 | 3.50 |
| For Single Layer Of Felt Finish, Add   | 0.26  |      |
| For Work In Restricted Working Space, Add  | 2.86  |      |
| 22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 12.76 | 3.64 |
| For Single Layer Of Felt Finish, Add   | 0.28  |      |
| For Work In Restricted Working Space, Add  | 3.02  |      |
| 22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 13.33 | 3.79 |
| For Single Layer Of Felt Finish, Add   | 0.33  |      |
| For Work In Restricted Working Space, Add  | 3.07  |      |
| 22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 14.04 | 3.93 |
| For Single Layer Of Felt Finish, Add   | 0.36  |      |
| For Work In Restricted Working Space, Add  | 3.17  |      |
| 22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 15.88 | 4.22 |
| For Single Layer Of Felt Finish, Add   | 0.47  |      |
| For Work In Restricted Working Space, Add  | 3.43  |      |
| 22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 18.72 | 4.95 |
| For Single Layer Of Felt Finish, Add   | 0.56  |      |
| For Work In Restricted Working Space, Add  | 4.00  |      |
| 22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation <sup>(22 07 19 00-0001)</sup>   |       |      |
| 22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 14.13 | 4.36 |
| For Single Layer Of Felt Finish, Add   | 0.23  |      |
| For Work In Restricted Working Space, Add  | 3.59  |      |
| 22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....  | 14.45 | 4.36 |
| For Single Layer Of Felt Finish, Add   | 0.26  |      |
| For Work In Restricted Working Space, Add  | 3.59  |      |



**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 14.66                     | 4.36                    |
| For Single Layer Of Felt Finish, Add   | 0.26                      |                         |
| For Work In Restricted Working Space, Add  | 3.64                      |                         |
| 22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 15.16                     | 4.51                    |
| For Single Layer Of Felt Finish, Add   | 0.30                      |                         |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| 22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 15.55                     | 4.51                    |
| For Single Layer Of Felt Finish, Add   | 0.32                      |                         |
| For Work In Restricted Working Space, Add  | 3.74                      |                         |
| 22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 16.18                     | 4.66                    |
| For Single Layer Of Felt Finish, Add   | 0.35                      |                         |
| For Work In Restricted Working Space, Add  | 3.85                      |                         |
| 22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 17.04                     | 4.95                    |
| For Single Layer Of Felt Finish, Add   | 0.39                      |                         |
| For Work In Restricted Working Space, Add  | 4.00                      |                         |
| 22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 17.86                     | 5.10                    |
| For Single Layer Of Felt Finish, Add   | 0.44                      |                         |
| For Work In Restricted Working Space, Add  | 4.11                      |                         |
| 22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 20.11                     | 5.39                    |
| For Single Layer Of Felt Finish, Add   | 0.56                      |                         |
| For Work In Restricted Working Space, Add  | 4.42                      |                         |
| 22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 23.20                     | 6.26                    |
| For Single Layer Of Felt Finish, Add   | 0.69                      |                         |
| For Work In Restricted Working Space, Add  | 4.99                      |                         |
| 22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 28.46                     | 6.99                    |
| For Single Layer Of Felt Finish, Add   | 0.99                      |                         |
| For Work In Restricted Working Space, Add  | 5.72                      |                         |
| 22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 33.50                     | 8.30                    |
| For Single Layer Of Felt Finish, Add   | 1.15                      |                         |
| For Work In Restricted Working Space, Add  | 6.76                      |                         |
| 22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 38.46                     | 9.46                    |
| For Single Layer Of Felt Finish, Add   | 1.31                      |                         |
| For Work In Restricted Working Space, Add  | 7.80                      |                         |
| 22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 41.35                     | 10.34                   |
| For Single Layer Of Felt Finish, Add   | 1.52                      |                         |
| For Work In Restricted Working Space, Add  | 8.07                      |                         |
| <b>22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>                               |                           |                         |
| 22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 16.86                     | 4.49                    |
| For Single Layer Of Felt Finish, Add   | 0.46                      |                         |
| For Work In Restricted Working Space, Add  | 3.74                      |                         |
| 22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 17.06                     | 4.49                    |
| For Single Layer Of Felt Finish, Add   | 0.48                      |                         |
| For Work In Restricted Working Space, Add  | 3.74                      |                         |
| 22 07 19 00-0031 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 18.02                     | 4.77                    |
| For Single Layer Of Felt Finish, Add   | 0.51                      |                         |
| For Work In Restricted Working Space, Add  | 3.96                      |                         |
| 22 07 19 00-0032 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 18.63                     | 4.87                    |
| For Single Layer Of Felt Finish, Add   | 0.54                      |                         |
| For Work In Restricted Working Space, Add  | 4.04                      |                         |
| 22 07 19 00-0033 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 19.16                     | 4.95                    |
| For Single Layer Of Felt Finish, Add   | 0.57                      |                         |
| For Work In Restricted Working Space, Add  | 4.11                      |                         |
| 22 07 19 00-0034 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 20.42                     | 5.21                    |
| For Single Layer Of Felt Finish, Add   | 0.63                      |                         |
| For Work In Restricted Working Space, Add  | 4.34                      |                         |
| 22 07 19 00-0035 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 21.26                     | 5.30                    |
| For Single Layer Of Felt Finish, Add   | 0.69                      |                         |
| For Work In Restricted Working Space, Add  | 4.41                      |                         |
| 22 07 19 00-0036 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 21.95                     | 5.49                    |
| For Single Layer Of Felt Finish, Add   | 0.71                      |                         |
| For Work In Restricted Working Space, Add  | 4.56                      |                         |
| 22 07 19 00-0037 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 24.18                     | 5.94                    |
| For Single Layer Of Felt Finish, Add   | 0.81                      |                         |
| For Work In Restricted Working Space, Add  | 4.93                      |                         |
| 22 07 19 00-0038 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 28.02                     | 6.93                    |
| For Single Layer Of Felt Finish, Add   | 0.93                      |                         |
| For Work In Restricted Working Space, Add  | 5.76                      |                         |
| 22 07 19 00-0039 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 31.30                     | 7.31                    |
| For Single Layer Of Felt Finish, Add   | 1.16                      |                         |
| For Work In Restricted Working Space, Add  | 6.08                      |                         |
| 22 07 19 00-0040 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 38.18                     | 8.75                    |
| For Single Layer Of Felt Finish, Add   | 1.46                      |                         |
| For Work In Restricted Working Space, Add  | 7.27                      |                         |
| 22 07 19 00-0041 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 43.41                     | 10.20                   |
| For Single Layer Of Felt Finish, Add   | 1.59                      |                         |
| For Work In Restricted Working Space, Add  | 8.47                      |                         |
| 22 07 19 00-0042 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 48.51                     | 11.17                   |
| For Single Layer Of Felt Finish, Add   | 1.84                      |                         |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |

22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....       | 20.57                     | 4.95                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 0.72                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.11                      |                         |
| 22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....       | 20.80                     | 4.95                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 0.75                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.11                      |                         |
| 22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 21.48                     | 5.10                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 0.80                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.16                      |                         |
| 22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 22.07                     | 5.10                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 0.84                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.21                      |                         |
| 22 07 19 00-0048 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 22.72                     | 5.24                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 0.89                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.27                      |                         |
| 22 07 19 00-0049 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 23.56                     | 5.39                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 0.93                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.42                      |                         |
| 22 07 19 00-0050 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 24.74                     | 5.53                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.00                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.58                      |                         |
| 22 07 19 00-0051 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 26.01                     | 5.82                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.07                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.73                      |                         |
| 22 07 19 00-0052 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 28.35                     | 6.11                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.23                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.99                      |                         |
| 22 07 19 00-0053 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 33.57                     | 7.18                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.43                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.99                      |                         |
| 22 07 19 00-0054 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 37.89                     | 7.58                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.77                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 6.32                      |                         |
| 22 07 19 00-0055 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 45.35                     | 9.07                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 2.11                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 7.57                      |                         |
| 22 07 19 00-0056 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 52.30                     | 10.88                   |
| <i>For Single Layer Of Felt Finish, Add</i>  | 2.32                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 9.06                      |                         |
| 22 07 19 00-0057 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 67.14                     | 11.86                   |
| <i>For Single Layer Of Felt Finish, Add</i>  | 2.63                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.64                     |                         |
| 22 07 19 00-0058 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 70.60                     | 13.91                   |
| <i>For Single Layer Of Felt Finish, Add</i>  | 2.99                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.64                     |                         |
| 22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 78.05                     | 14.60                   |
| <i>For Single Layer Of Felt Finish, Add</i>  | 3.55                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.27                     |                         |
| 22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 88.52                     | 16.69                   |
| <i>For Single Layer Of Felt Finish, Add</i>  | 3.98                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 15.17                     |                         |
| 22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 103.16                    | 20.17                   |
| <i>For Single Layer Of Felt Finish, Add</i>  | 4.42                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.33                     |                         |
| <b>22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>                |                           |                         |
| 22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 25.37                     | 5.82                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.00                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.74                      |                         |
| 22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 25.70                     | 5.82                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.04                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.74                      |                         |
| 22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 26.67                     | 5.82                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.12                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.82                      |                         |
| 22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 27.38                     | 5.97                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.18                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.85                      |                         |
| 22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 28.12                     | 5.97                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.24                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.89                      |                         |
| 22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 29.28                     | 6.26                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.29                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.09                      |                         |
| 22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 30.89                     | 6.40                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.40                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.27                      |                         |
| 22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 32.35                     | 6.70                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.49                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.45                      |                         |
| 22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 35.67                     | 6.99                    |
| <i>For Single Layer Of Felt Finish, Add</i>  | 1.73                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.75                      |                         |

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 22 07 19 00-0072        | LF  |     | 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 40.88                  | 7.43                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 2.01                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.53                   |                      |
| 22 07 19 00-0073        | LF  |     | 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 54.00                  | 8.88                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 3.12                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 7.28                   |                      |
| 22 07 19 00-0074        | LF  |     | 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 64.36                  | 10.20                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 3.82                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 8.39                   |                      |
| 22 07 19 00-0075        | LF  |     | 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 73.52                  | 12.67                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 4.07                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 10.43                  |                      |
| 22 07 19 00-0076        | LF  |     | 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 82.97                  | 13.98                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 4.72                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 11.39                  |                      |
| 22 07 19 00-0077        | LF  |     | 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 98.11                  | 17.77                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 5.21                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 14.56                  |                      |
| 22 07 19 00-0078        | LF  |     | 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 105.36                 | 18.64                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 5.71                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 15.29                  |                      |
| 22 07 19 00-0079        | LF  |     | 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 119.63                 | 21.26                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 6.44                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 17.48                  |                      |
| 22 07 19 00-0080        | LF  |     | 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 140.93                 | 25.68                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 7.41                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 21.11                  |                      |
| <b>22 07 19 00-0081</b> |     |     | <b>3" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>              |                        |                      |
| 22 07 19 00-0082        | LF  |     | 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 27.98                  | 6.44                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.10                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.24                   |                      |
| 22 07 19 00-0083        | LF  |     | 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 28.34                  | 6.44                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.14                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.24                   |                      |
| 22 07 19 00-0084        | LF  |     | 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 29.32                  | 6.50                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.22                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.30                   |                      |
| 22 07 19 00-0085        | LF  |     | 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 30.08                  | 6.54                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.29                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.33                   |                      |
| 22 07 19 00-0086        | LF  |     | 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 30.96                  | 6.61                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.36                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.39                   |                      |
| 22 07 19 00-0087        | LF  |     | 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 32.16                  | 6.86                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.42                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.59                   |                      |
| 22 07 19 00-0088        | LF  |     | 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 33.91                  | 7.09                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.54                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.78                   |                      |
| 22 07 19 00-0089        | LF  |     | 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 35.54                  | 7.35                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.64                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.99                   |                      |
| 22 07 19 00-0090        | LF  |     | 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 39.21                  | 7.76                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 1.90                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.32                   |                      |
| 22 07 19 00-0091        | LF  |     | 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 44.91                  | 8.81                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 2.20                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 7.18                   |                      |
| 22 07 19 00-0092        | LF  |     | 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 59.30                  | 9.81                 |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 3.43                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 8.00                   |                      |
| 22 07 19 00-0093        | LF  |     | 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 70.71                  | 11.33                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 4.19                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 9.23                   |                      |
| 22 07 19 00-0094        | LF  |     | 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 80.78                  | 14.08                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 4.46                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 11.48                  |                      |
| 22 07 19 00-0095        | LF  |     | 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 91.16                  | 15.37                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 5.18                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 12.53                  |                      |
| 22 07 19 00-0096        | LF  |     | 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 107.80                 | 19.65                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 5.71                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.01                  |                      |
| 22 07 19 00-0097        | LF  |     | 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 115.77                 | 20.63                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 6.27                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.82                  |                      |
| 22 07 19 00-0098        | LF  |     | 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 131.46                 | 23.59                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 7.07                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 19.23                  |                      |
| 22 07 19 00-0099        | LF  |     | 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 154.86                 | 28.49                |
|                         |     |     | <i>For Single Layer Of Felt Finish, Add</i>   | 8.13                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 23.23                  |                      |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| <b>22 07 19 00-0100</b> |       |     |     | <b>3-1/2" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>             |                        |                      |
| 22 07 19 00-0101        | LF    |     |     | 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 30.20                  | 6.99                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.16                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 5.75                   |                      |
| 22 07 19 00-0102        | LF    |     |     | 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 30.62                  | 6.99                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.20                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 5.75                   |                      |
| 22 07 19 00-0103        | LF    |     |     | 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 32.02                  | 6.99                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.34                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 5.78                   |                      |
| 22 07 19 00-0104        | LF    |     |     | 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 32.85                  | 7.14                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.41                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 5.82                   |                      |
| 22 07 19 00-0105        | LF    |     |     | 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 33.84                  | 7.14                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.49                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 5.90                   |                      |
| 22 07 19 00-0106        | LF    |     |     | 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 35.09                  | 7.43                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.55                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.09                   |                      |
| 22 07 19 00-0107        | LF    |     |     | 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 37.01                  | 7.72                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.68                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.31                   |                      |
| 22 07 19 00-0108        | LF    |     |     | 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 38.68                  | 8.00                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.78                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.53                   |                      |
| 22 07 19 00-0109        | LF    |     |     | 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 42.84                  | 8.45                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 2.08                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.90                   |                      |
| 22 07 19 00-0110        | LF    |     |     | 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 49.03                  | 9.61                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 2.41                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 7.84                   |                      |
| 22 07 19 00-0111        | LF    |     |     | 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 64.75                  | 10.63                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 3.74                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 8.73                   |                      |
| 22 07 19 00-0112        | LF    |     |     | 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 77.23                  | 12.23                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 4.58                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 10.07                  |                      |
| 22 07 19 00-0113        | LF    |     |     | 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 88.21                  | 15.29                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 4.88                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 12.52                  |                      |
| 22 07 19 00-0114        | LF    |     |     | 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 99.58                  | 16.74                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 5.67                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 13.67                  |                      |
| 22 07 19 00-0115        | LF    |     |     | 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 117.75                 | 21.26                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 6.25                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 17.47                  |                      |
| 22 07 19 00-0116        | LF    |     |     | 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 126.43                 | 22.42                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 6.85                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 18.35                  |                      |
| 22 07 19 00-0117        | LF    |     |     | 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 143.61                 | 25.63                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 7.74                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 20.98                  |                      |
| 22 07 19 00-0118        | LF    |     |     | 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 169.13                 | 30.87                |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 8.89                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 25.34                  |                      |
| <b>22 07 19 00-0119</b> |       |     |     | <b>4" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>                 |                        |                      |
| 22 07 19 00-0120        | LF    |     |     | 1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....       | 34.18                  | 7.86                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.36                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.38                   |                      |
| 22 07 19 00-0121        | LF    |     |     | 3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....       | 34.64                  | 7.86                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.40                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.38                   |                      |
| 22 07 19 00-0122        | LF    |     |     | 1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 35.96                  | 7.86                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.50                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.49                   |                      |
| 22 07 19 00-0123        | LF    |     |     | 1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 37.03                  | 8.00                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.59                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.57                   |                      |
| 22 07 19 00-0124        | LF    |     |     | 1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 38.54                  | 8.30                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.68                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.77                   |                      |
| 22 07 19 00-0125        | LF    |     |     | 2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 39.93                  | 8.59                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.75                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 6.98                   |                      |
| 22 07 19 00-0126        | LF    |     |     | 2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 41.63                  | 8.59                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 1.89                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 7.09                   |                      |
| 22 07 19 00-0127        | LF    |     |     | 3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 43.67                  | 9.03                 |
|                         |       |     |     | <i>For Single Layer Of Felt Finish, Add</i>  | 2.01                   |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 7.35                   |                      |

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0128 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 48.16                     | 9.46                    |
| For Single Layer Of Felt Finish, Add   | 2.34                      |                         |
| For Work In Restricted Working Space, Add  | 7.76                      |                         |
| 22 07 19 00-0129 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 55.14                     | 10.78                   |
| For Single Layer Of Felt Finish, Add   | 2.71                      |                         |
| For Work In Restricted Working Space, Add  | 8.81                      |                         |
| 22 07 19 00-0130 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....         | 72.85                     | 11.64                   |
| For Single Layer Of Felt Finish, Add   | 4.21                      |                         |
| For Work In Restricted Working Space, Add  | 9.82                      |                         |
| 22 07 19 00-0131 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 86.90                     | 13.84                   |
| For Single Layer Of Felt Finish, Add   | 5.15                      |                         |
| For Work In Restricted Working Space, Add  | 11.34                     |                         |
| 22 07 19 00-0132 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 99.26                     | 17.18                   |
| For Single Layer Of Felt Finish, Add   | 5.49                      |                         |
| For Work In Restricted Working Space, Add  | 14.09                     |                         |
| 22 07 19 00-0133 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 112.06                    | 18.78                   |
| For Single Layer Of Felt Finish, Add   | 6.38                      |                         |
| For Work In Restricted Working Space, Add  | 15.39                     |                         |
| 22 07 19 00-0134 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 132.53                    | 24.02                   |
| For Single Layer Of Felt Finish, Add   | 7.03                      |                         |
| For Work In Restricted Working Space, Add  | 19.67                     |                         |
| 22 07 19 00-0135 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 142.17                    | 25.19                   |
| For Single Layer Of Felt Finish, Add   | 7.71                      |                         |
| For Work In Restricted Working Space, Add  | 20.62                     |                         |
| 22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 159.64                    | 28.83                   |
| For Single Layer Of Felt Finish, Add   | 8.50                      |                         |
| For Work In Restricted Working Space, Add  | 23.60                     |                         |
| 22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 190.31                    | 34.80                   |
| For Single Layer Of Felt Finish, Add   | 10.00                     |                         |
| For Work In Restricted Working Space, Add  | 28.51                     |                         |
| 22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 217.71                    | 41.06                   |
| For Single Layer Of Felt Finish, Add   | 11.10                     |                         |
| For Work In Restricted Working Space, Add  | 33.60                     |                         |
| 22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 246.10                    | 48.34                   |
| For Single Layer Of Felt Finish, Add   | 11.99                     |                         |
| For Work In Restricted Working Space, Add  | 39.57                     |                         |
| 22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 278.44                    | 57.08                   |
| For Single Layer Of Felt Finish, Add   | 12.83                     |                         |
| For Work In Restricted Working Space, Add  | 46.87                     |                         |
| 22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 337.49                    | 72.57                   |
| For Single Layer Of Felt Finish, Add   | 14.58                     |                         |
| For Work In Restricted Working Space, Add  | 59.60                     |                         |
| 22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 396.54                    | 88.38                   |
| For Single Layer Of Felt Finish, Add   | 16.32                     |                         |
| For Work In Restricted Working Space, Add  | 72.32                     |                         |
| 22 07 19 00-0143 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 427.18                    | 97.12                   |
| For Single Layer Of Felt Finish, Add   | 16.95                     |                         |
| For Work In Restricted Working Space, Add  | 79.71                     |                         |
| 22 07 19 00-0144 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....        | 454.58                    | 104.55                  |
| For Single Layer Of Felt Finish, Add   | 17.64                     |                         |
| For Work In Restricted Working Space, Add  | 85.99                     |                         |
| <b>22 07 19 00-0145 4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>                               |                           |                         |
| 22 07 19 00-0146 LF 1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 37.54                     | 8.46                    |
| For Single Layer Of Felt Finish, Add   | 1.54                      |                         |
| For Work In Restricted Working Space, Add  | 6.86                      |                         |
| 22 07 19 00-0147 LF 3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 38.08                     | 8.46                    |
| For Single Layer Of Felt Finish, Add   | 1.60                      |                         |
| For Work In Restricted Working Space, Add  | 6.86                      |                         |
| 22 07 19 00-0148 LF 1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 39.57                     | 8.46                    |
| For Single Layer Of Felt Finish, Add   | 1.71                      |                         |
| For Work In Restricted Working Space, Add  | 6.98                      |                         |
| 22 07 19 00-0149 LF 1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 40.76                     | 8.61                    |
| For Single Layer Of Felt Finish, Add   | 1.81                      |                         |
| For Work In Restricted Working Space, Add  | 7.06                      |                         |
| 22 07 19 00-0150 LF 1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 42.42                     | 8.92                    |
| For Single Layer Of Felt Finish, Add   | 1.91                      |                         |
| For Work In Restricted Working Space, Add  | 7.28                      |                         |
| 22 07 19 00-0151 LF 2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 43.97                     | 9.23                    |
| For Single Layer Of Felt Finish, Add   | 1.99                      |                         |
| For Work In Restricted Working Space, Add  | 7.51                      |                         |
| 22 07 19 00-0152 LF 2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 45.89                     | 9.23                    |
| For Single Layer Of Felt Finish, Add   | 2.15                      |                         |
| For Work In Restricted Working Space, Add  | 7.62                      |                         |
| 22 07 19 00-0153 LF 3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 48.16                     | 9.70                    |
| For Single Layer Of Felt Finish, Add   | 2.29                      |                         |
| For Work In Restricted Working Space, Add  | 7.90                      |                         |
| 22 07 19 00-0154 LF 4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 53.16                     | 10.18                   |
| For Single Layer Of Felt Finish, Add   | 2.66                      |                         |
| For Work In Restricted Working Space, Add  | 8.34                      |                         |
| 22 07 19 00-0155 LF 6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 60.90                     | 11.58                   |
| For Single Layer Of Felt Finish, Add   | 3.08                      |                         |
| For Work In Restricted Working Space, Add  | 9.47                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0156 LF 8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 80.82                     | 12.52                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 4.79                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 10.56                     |                         |
| 22 07 19 00-0157 LF 10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 96.50                     | 14.87                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 5.87                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 12.19                     |                         |
| 22 07 19 00-0158 LF 12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 110.00                    | 18.47                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 6.25                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 15.15                     |                         |
| 22 07 19 00-0159 LF 14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 124.27                    | 20.19                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 7.26                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 16.54                     |                         |
| 22 07 19 00-0160 LF 16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 146.67                    | 25.83                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 8.00                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| 22 07 19 00-0161 LF 18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 157.44                    | 27.08                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 8.77                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 22.16                     |                         |
| 22 07 19 00-0162 LF 20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 176.67                    | 30.99                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 9.67                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 25.37                     |                         |
| 22 07 19 00-0163 LF 24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 210.54                    | 37.41                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 11.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 30.65                     |                         |
| 22 07 19 00-0164 LF 26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 240.67                    | 44.14                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 12.63                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 36.12                     |                         |
| 22 07 19 00-0165 LF 28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 271.70                    | 51.96                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 13.64                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 42.53                     |                         |
| 22 07 19 00-0166 LF 30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 306.99                    | 61.35                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 14.60                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 50.39                     |                         |
| 22 07 19 00-0167 LF 36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 371.50                    | 78.01                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 16.59                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 64.06                     |                         |
| 22 07 19 00-0168 LF 42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 436.03                    | 95.01                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 18.57                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 77.75                     |                         |
| 22 07 19 00-0169 LF 44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 469.34                    | 104.40                  |
| <i>For Single Layer Of Felt Finish, Add</i>   | 19.29                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 85.69                     |                         |
| 22 07 19 00-0170 LF 46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... | 499.20                    | 112.38                  |
| <i>For Single Layer Of Felt Finish, Add</i>   | 20.06                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 92.44                     |                         |
| <b>22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>                                |                           |                         |
| 22 07 19 00-0172 LF 1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 41.67                     | 9.30                    |
| <i>For Single Layer Of Felt Finish, Add</i>   | 1.73                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.55                      |                         |
| 22 07 19 00-0173 LF 3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....    | 42.25                     | 9.30                    |
| <i>For Single Layer Of Felt Finish, Add</i>   | 1.80                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.55                      |                         |
| 22 07 19 00-0174 LF 1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 43.91                     | 9.30                    |
| <i>For Single Layer Of Felt Finish, Add</i>   | 1.92                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.67                      |                         |
| 22 07 19 00-0175 LF 1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 45.27                     | 9.47                    |
| <i>For Single Layer Of Felt Finish, Add</i>   | 2.03                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.77                      |                         |
| 22 07 19 00-0176 LF 1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 47.13                     | 9.81                    |
| <i>For Single Layer Of Felt Finish, Add</i>   | 2.14                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.01                      |                         |
| 22 07 19 00-0177 LF 2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 48.82                     | 10.16                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 2.24                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.26                      |                         |
| 22 07 19 00-0178 LF 2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....  | 50.98                     | 10.16                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 2.42                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.39                      |                         |
| 22 07 19 00-0179 LF 3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 53.53                     | 10.68                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 2.58                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.69                      |                         |
| 22 07 19 00-0180 LF 4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 59.13                     | 11.19                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 3.00                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 9.18                      |                         |
| 22 07 19 00-0181 LF 6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 67.73                     | 12.74                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 3.47                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 10.41                     |                         |
| 22 07 19 00-0182 LF 8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....      | 90.03                     | 13.78                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 5.39                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 11.61                     |                         |
| 22 07 19 00-0183 LF 10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....     | 107.54                    | 16.36                   |
| <i>For Single Layer Of Felt Finish, Add</i>   | 6.60                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.41                     |                         |

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0184 LF 12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 122.48                    | 20.32                   |
| For Single Layer Of Felt Finish, Add  | 7.03                      |                         |
| For Work In Restricted Working Space, Add   | 16.66                     |                         |
| 22 07 19 00-0185 LF 14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 138.43                    | 22.21                   |
| For Single Layer Of Felt Finish, Add  | 8.17                      |                         |
| For Work In Restricted Working Space, Add   | 18.20                     |                         |
| 22 07 19 00-0186 LF 16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 163.24                    | 28.40                   |
| For Single Layer Of Felt Finish, Add  | 9.00                      |                         |
| For Work In Restricted Working Space, Add   | 23.27                     |                         |
| 22 07 19 00-0187 LF 18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 175.26                    | 29.78                   |
| For Single Layer Of Felt Finish, Add  | 9.87                      |                         |
| For Work In Restricted Working Space, Add   | 24.38                     |                         |
| 22 07 19 00-0188 LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 196.66                    | 34.10                   |
| For Single Layer Of Felt Finish, Add  | 10.88                     |                         |
| For Work In Restricted Working Space, Add   | 27.91                     |                         |
| 22 07 19 00-0189 LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 234.31                    | 41.15                   |
| For Single Layer Of Felt Finish, Add  | 12.80                     |                         |
| For Work In Restricted Working Space, Add   | 33.71                     |                         |
| 22 07 19 00-0190 LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 267.74                    | 48.55                   |
| For Single Layer Of Felt Finish, Add  | 14.21                     |                         |
| For Work In Restricted Working Space, Add   | 39.73                     |                         |
| 22 07 19 00-0191 LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 302.13                    | 57.16                   |
| For Single Layer Of Felt Finish, Add  | 15.35                     |                         |
| For Work In Restricted Working Space, Add   | 46.79                     |                         |
| 22 07 19 00-0192 LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 341.17                    | 67.50                   |
| For Single Layer Of Felt Finish, Add  | 16.42                     |                         |
| For Work In Restricted Working Space, Add   | 55.43                     |                         |
| 22 07 19 00-0193 LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 412.61                    | 85.82                   |
| For Single Layer Of Felt Finish, Add  | 18.66                     |                         |
| For Work In Restricted Working Space, Add   | 70.47                     |                         |
| 22 07 19 00-0194 LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 484.05                    | 104.51                  |
| For Single Layer Of Felt Finish, Add  | 20.89                     |                         |
| For Work In Restricted Working Space, Add   | 85.52                     |                         |
| 22 07 19 00-0195 LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 520.86                    | 114.85                  |
| For Single Layer Of Felt Finish, Add  | 21.70                     |                         |
| For Work In Restricted Working Space, Add   | 94.26                     |                         |
| 22 07 19 00-0196 LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....   | 553.91                    | 123.62                  |
| For Single Layer Of Felt Finish, Add  | 22.57                     |                         |
| For Work In Restricted Working Space, Add   | 101.68                    |                         |
| <b>22 07 19 00-0197 Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell (22 07 19)</b>  |                           |                         |
| Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. |                           |                         |
| <b>22 07 19 00-0198 1" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>  |                           |                         |
| 22 07 19 00-0199 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 24.31                     | 7.11                    |
| For Work In Restricted Working Space, Add   | 6.46                      |                         |
| 22 07 19 00-0200 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 25.02                     | 7.11                    |
| For Work In Restricted Working Space, Add   | 6.46                      |                         |
| 22 07 19 00-0201 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 26.05                     | 7.21                    |
| For Work In Restricted Working Space, Add   | 6.55                      |                         |
| 22 07 19 00-0202 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 26.60                     | 7.31                    |
| For Work In Restricted Working Space, Add   | 6.65                      |                         |
| 22 07 19 00-0203 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 27.38                     | 7.41                    |
| For Work In Restricted Working Space, Add   | 6.74                      |                         |
| 22 07 19 00-0204 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 28.92                     | 7.61                    |
| For Work In Restricted Working Space, Add   | 6.93                      |                         |
| 22 07 19 00-0205 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 30.88                     | 7.93                    |
| For Work In Restricted Working Space, Add   | 7.21                      |                         |
| 22 07 19 00-0206 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 32.89                     | 8.14                    |
| For Work In Restricted Working Space, Add   | 7.40                      |                         |
| 22 07 19 00-0207 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 37.36                     | 8.75                    |
| For Work In Restricted Working Space, Add   | 7.96                      |                         |
| 22 07 19 00-0208 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation.....   | 46.32                     | 9.87                    |
| For Work In Restricted Working Space, Add   | 8.98                      |                         |
| <b>22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>  |                           |                         |
| 22 07 19 00-0210 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 28.02                     | 7.87                    |
| For Work In Restricted Working Space, Add   | 6.93                      |                         |
| 22 07 19 00-0211 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 28.47                     | 7.87                    |
| For Work In Restricted Working Space, Add   | 6.93                      |                         |
| 22 07 19 00-0212 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 29.22                     | 7.98                    |
| For Work In Restricted Working Space, Add   | 7.02                      |                         |
| 22 07 19 00-0213 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 29.86                     | 8.08                    |
| For Work In Restricted Working Space, Add   | 7.11                      |                         |
| 22 07 19 00-0214 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 30.45                     | 8.19                    |
| For Work In Restricted Working Space, Add   | 7.21                      |                         |
| 22 07 19 00-0215 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 32.63                     | 8.46                    |
| For Work In Restricted Working Space, Add   | 7.45                      |                         |
| 22 07 19 00-0216 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....   | 36.19                     | 8.78                    |
| For Work In Restricted Working Space, Add   | 7.73                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0217 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....      | 39.33                     | 9.04                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.96                      |                         |
| 22 07 19 00-0218 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....      | 43.97                     | 9.62                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.47                      |                         |
| 22 07 19 00-0219 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....      | 51.36                     | 10.91                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 9.59                      |                         |
| 22 07 19 00-0220 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....      | 57.40                     | 12.16                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.70                     |                         |
| 22 07 19 00-0221 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....     | 68.97                     | 14.03                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 12.34                     |                         |
| 22 07 19 00-0222 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....     | 82.56                     | 17.43                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 15.33                     |                         |
| 22 07 19 00-0223 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....     | 91.35                     | 18.33                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 16.66                     |                         |
| 22 07 19 00-0224 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....     | 100.85                    | 20.47                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 18.61                     |                         |
| 22 07 19 00-0225 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....     | 115.29                    | 24.21                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 22.02                     |                         |
| 22 07 19 00-0226 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....     | 128.56                    | 26.81                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 24.38                     |                         |
| 22 07 19 00-0227 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation.....   | 156.86                    | 29.70                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 27.00                     |                         |
| <b>22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>     |                           |                         |
| 22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation.....        | 31.09                     | 8.14                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.40                      |                         |
| 22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation.....        | 31.78                     | 8.14                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.40                      |                         |
| 22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation.....          | 32.77                     | 8.22                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.49                      |                         |
| 22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation.....      | 34.16                     | 8.35                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.58                      |                         |
| 22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation.....      | 35.59                     | 8.45                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.67                      |                         |
| 22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation.....          | 39.12                     | 8.75                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 7.96                      |                         |
| 22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation.....      | 40.92                     | 9.07                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.24                      |                         |
| 22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation.....          | 43.56                     | 9.36                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.51                      |                         |
| 22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation.....          | 48.42                     | 9.88                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.99                      |                         |
| 22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation.....          | 57.35                     | 11.22                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.21                     |                         |
| 22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation.....          | 63.86                     | 12.52                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 11.38                     |                         |
| 22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 76.95                     | 14.43                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 13.12                     |                         |
| 22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 95.38                     | 17.94                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 16.31                     |                         |
| 22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 102.29                    | 19.59                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 17.80                     |                         |
| 22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 122.72                    | 25.03                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 22.75                     |                         |
| 22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 132.83                    | 26.28                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 23.88                     |                         |
| 22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 147.87                    | 30.03                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 27.31                     |                         |
| 22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation.....         | 184.17                    | 36.29                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 32.99                     |                         |
| <b>22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b> |                           |                         |
| 22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....    | 36.75                     | 8.83                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.02                      |                         |
| 22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....    | 37.91                     | 8.81                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.01                      |                         |
| 22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....      | 39.55                     | 8.96                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.15                      |                         |
| 22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....  | 40.93                     | 9.03                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.21                      |                         |
| 22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....  | 42.33                     | 9.10                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.27                      |                         |
| 22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....      | 45.11                     | 9.46                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.61                      |                         |
| 22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....  | 47.74                     | 9.80                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.91                      |                         |
| 22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....      | 51.38                     | 10.14                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 9.22                      |                         |
| 22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....      | 56.94                     | 10.69                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 9.72                      |                         |
| 22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....      | 67.50                     | 12.16                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 11.05                     |                         |



**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....     | 75.21                     | 13.55                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 12.32                     |                         |
| 22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 85.97                     | 15.63                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 14.21                     |                         |
| 22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 107.01                    | 19.43                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 17.66                     |                         |
| 22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 112.49                    | 21.20                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 19.28                     |                         |
| 22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 134.59                    | 27.10                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 24.63                     |                         |
| 22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 145.41                    | 28.46                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 25.87                     |                         |
| 22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 167.00                    | 32.52                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 29.57                     |                         |
| 22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....    | 207.80                    | 39.29                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 35.72                     |                         |
| <b>22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>     |                           |                         |
| 22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....       | 43.20                     | 9.38                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.53                      |                         |
| 22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation .....       | 43.91                     | 9.38                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.53                      |                         |
| 22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation .....         | 45.09                     | 9.54                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.67                      |                         |
| 22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation .....     | 46.00                     | 9.59                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.73                      |                         |
| 22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....     | 46.97                     | 9.68                    |
| <i>For Work In Restricted Working Space, Add</i>                                 | 8.80                      |                         |
| 22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation .....         | 50.17                     | 10.07                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 9.16                      |                         |
| 22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....     | 53.21                     | 10.43                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 9.47                      |                         |
| 22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation .....         | 59.48                     | 10.79                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 9.81                      |                         |
| 22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation .....         | 67.02                     | 11.37                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.34                     |                         |
| 22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation .....         | 73.82                     | 12.93                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 11.75                     |                         |
| 22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation .....         | 83.21                     | 14.42                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 13.11                     |                         |
| 22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 98.74                     | 16.63                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 15.11                     |                         |
| 22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 115.92                    | 20.66                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 18.78                     |                         |
| 22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 124.52                    | 22.55                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 20.51                     |                         |
| 22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 150.39                    | 28.83                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 26.21                     |                         |
| 22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 160.46                    | 30.27                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 27.52                     |                         |
| 22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 187.23                    | 34.60                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 31.45                     |                         |
| 22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation .....        | 228.45                    | 41.81                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 38.00                     |                         |
| <b>22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b> |                           |                         |
| 22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....   | 52.11                     | 11.37                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.34                     |                         |
| 22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....   | 53.00                     | 11.37                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.34                     |                         |
| 22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....     | 54.12                     | 11.44                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.41                     |                         |
| 22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation ..... | 55.23                     | 11.51                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.48                     |                         |
| 22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation ..... | 56.56                     | 11.66                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.61                     |                         |
| 22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....     | 61.53                     | 12.07                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 10.97                     |                         |
| 22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation ..... | 66.58                     | 12.49                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 11.36                     |                         |
| 22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....     | 70.08                     | 12.93                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 11.75                     |                         |
| 22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....     | 74.89                     | 13.67                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 12.42                     |                         |
| 22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....     | 86.02                     | 15.52                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 14.11                     |                         |
| 22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....     | 97.50                     | 17.28                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 15.71                     |                         |
| 22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....    | 115.95                    | 19.95                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 18.13                     |                         |
| 22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....    | 138.11                    | 24.80                   |
| <i>For Work In Restricted Working Space, Add</i>                                 | 22.54                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 145.15<br>24.61           | 27.07                   |
| 22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 175.92<br>31.45           | 34.60                   |
| 22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 191.84<br>33.02           | 36.33                   |
| 22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 218.59<br>37.77           | 41.55                   |
| 22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 267.65<br>45.60           | 50.16                   |
| <b>22 07 19 00-0304 4" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>   |                           |                         |
| 22 07 19 00-0305 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 63.55<br>12.70            | 13.98                   |
| 22 07 19 00-0306 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 64.70<br>12.70            | 13.98                   |
| 22 07 19 00-0307 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 66.58<br>12.92            | 14.21                   |
| 22 07 19 00-0308 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 68.23<br>13.07            | 14.39                   |
| 22 07 19 00-0309 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 70.75<br>13.48            | 14.84                   |
| 22 07 19 00-0310 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 75.79<br>13.90            | 15.29                   |
| 22 07 19 00-0311 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 80.13<br>14.12            | 15.53                   |
| 22 07 19 00-0312 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 83.95<br>14.64            | 16.11                   |
| 22 07 19 00-0313 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 92.07<br>16.33            | 17.96                   |
| 22 07 19 00-0314 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 105.18<br>17.53           | 19.27                   |
| 22 07 19 00-0315 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>  | 118.00<br>19.01           | 20.91                   |
| 22 07 19 00-0316 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 135.93<br>22.58           | 24.84                   |
| 22 07 19 00-0317 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 160.42<br>28.04           | 30.86                   |
| 22 07 19 00-0318 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 174.57<br>30.64           | 33.69                   |
| 22 07 19 00-0319 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 209.92<br>39.17           | 43.08                   |
| 22 07 19 00-0320 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 231.11<br>41.05           | 45.16                   |
| 22 07 19 00-0321 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 260.00<br>46.98           | 51.67                   |
| 22 07 19 00-0322 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 327.02<br>56.75           | 62.44                   |
| <b>22 07 19 00-0323 Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19)</b><br>Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting. |                           |                         |
| <b>22 07 19 00-0324 3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>  |                           |                         |
| 22 07 19 00-0325 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 9.21<br>2.62              | 4.35                    |
| 22 07 19 00-0326 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 9.23<br>2.62              | 4.35                    |
| 22 07 19 00-0327 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 9.60<br>2.71              | 4.51                    |
| 22 07 19 00-0328 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 9.97<br>2.80              | 4.66                    |
| 22 07 19 00-0329 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 10.31<br>2.84             | 4.75                    |
| 22 07 19 00-0330 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 10.70<br>2.89             | 4.82                    |
| 22 07 19 00-0331 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 10.85<br>2.90             | 4.82                    |
| 22 07 19 00-0332 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 11.27<br>2.92             | 4.82                    |
| 22 07 19 00-0333 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 12.13<br>3.00             | 4.97                    |
| 22 07 19 00-0334 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 12.51<br>3.05             | 5.05                    |
| <b>22 07 19 00-0335 1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>  |                           |                         |
| 22 07 19 00-0336 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 10.20<br>2.84             | 4.75                    |
| 22 07 19 00-0337 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>   | 10.31<br>2.87             | 4.75                    |

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0338 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 10.47<br>2.89             | 4.82                    |
| 22 07 19 00-0339 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 10.66<br>2.91             | 4.85                    |
| 22 07 19 00-0340 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 11.15<br>2.98             | 4.97                    |
| 22 07 19 00-0341 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 11.57<br>3.03             | 5.05                    |
| 22 07 19 00-0342 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 12.03<br>3.08             | 5.13                    |
| 22 07 19 00-0343 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 12.59<br>3.12             | 5.20                    |
| 22 07 19 00-0344 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 13.57<br>3.21             | 5.36                    |
| 22 07 19 00-0345 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 14.57<br>3.26             | 5.43                    |
| 22 07 19 00-0346 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 15.51<br>3.30             | 5.50                    |
| 22 07 19 00-0347 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 16.09<br>3.35             | 5.58                    |
| <b>22 07 19 00-0348 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>  |                           |                         |
| 22 07 19 00-0349 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 11.31<br>3.08             | 5.13                    |
| 22 07 19 00-0350 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 11.46<br>3.12             | 5.20                    |
| 22 07 19 00-0351 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 12.14<br>3.21             | 5.36                    |
| 22 07 19 00-0352 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 12.45<br>3.26             | 5.43                    |
| 22 07 19 00-0353 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 13.29<br>3.35             | 5.58                    |
| 22 07 19 00-0354 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 14.11<br>3.39             | 5.66                    |
| 22 07 19 00-0355 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 14.48<br>3.41             | 5.69                    |
| 22 07 19 00-0356 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 15.97<br>3.44             | 5.74                    |
| 22 07 19 00-0357 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 18.06<br>3.53             | 5.88                    |
| 22 07 19 00-0358 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 18.20<br>3.58             | 5.97                    |
| 22 07 19 00-0359 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                        | 19.69<br>3.63             | 6.04                    |
| 22 07 19 00-0360 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                            | 20.32<br>3.67             | 6.11                    |
| <b>22 07 19 00-0361 1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>  |                           |                         |
| 22 07 19 00-0362 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 12.82<br>3.39             | 5.66                    |
| 22 07 19 00-0363 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 13.13<br>3.44             | 5.74                    |
| 22 07 19 00-0364 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 14.09<br>3.53             | 5.88                    |
| 22 07 19 00-0365 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 14.38<br>3.58             | 5.97                    |
| 22 07 19 00-0366 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 15.78<br>3.67             | 6.11                    |
| 22 07 19 00-0367 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                          | 16.51<br>3.76             | 6.27                    |
| 22 07 19 00-0368 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                          | 16.80<br>3.80             | 6.34                    |
| 22 07 19 00-0369 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 18.13<br>3.85             | 6.43                    |
| 22 07 19 00-0370 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                          | 19.12<br>3.95             | 6.59                    |
| 22 07 19 00-0371 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                              | 19.97<br>3.99             | 6.66                    |
| <b>22 07 19 00-0372 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)</b><br>Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting. |                           |                         |
| <b>22 07 19 00-0373 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>   |                           |                         |
| 22 07 19 00-0374 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                             | 9.48<br>2.62              | 4.35                    |
| 22 07 19 00-0375 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                             | 9.62<br>2.62              | 4.35                    |
| 22 07 19 00-0376 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                             | 9.99<br>2.71              | 4.51                    |
| 22 07 19 00-0377 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>                             | 10.20<br>2.75             | 4.58                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0378 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 10.43<br>2.80             | 4.66                    |
| 22 07 19 00-0379 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 10.73<br>2.84             | 4.75                    |
| 22 07 19 00-0380 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 11.00<br>2.89             | 4.82                    |
| 22 07 19 00-0381 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 11.24<br>2.90             | 4.82                    |
| 22 07 19 00-0382 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 11.45<br>2.92             | 4.82                    |
| 22 07 19 00-0383 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 11.68<br>2.93             | 4.90                    |
| 22 07 19 00-0384 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 12.02<br>2.98             | 4.97                    |
| 22 07 19 00-0385 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 12.30<br>3.00             | 4.97                    |
| 22 07 19 00-0386 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 12.52<br>3.03             | 5.05                    |
| 22 07 19 00-0387 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 12.80<br>3.05             | 5.05                    |
| 22 07 19 00-0388 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 13.40<br>3.08             | 5.13                    |
| 22 07 19 00-0389 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 14.12<br>3.12             | 5.20                    |
| 22 07 19 00-0390 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 14.89<br>3.14             | 5.23                    |
| <b>22 07 19 00-0391 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>   |                           |                         |
| 22 07 19 00-0392 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 10.64<br>2.84             | 4.75                    |
| 22 07 19 00-0393 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 10.77<br>2.87             | 4.75                    |
| 22 07 19 00-0394 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 10.93<br>2.89             | 4.82                    |
| 22 07 19 00-0395 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 11.12<br>2.90             | 4.82                    |
| 22 07 19 00-0396 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 11.28<br>2.91             | 4.82                    |
| 22 07 19 00-0397 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 11.70<br>2.98             | 4.97                    |
| 22 07 19 00-0398 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 12.10<br>3.03             | 5.05                    |
| 22 07 19 00-0399 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 12.44<br>3.08             | 5.13                    |
| 22 07 19 00-0400 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 12.78<br>3.10             | 5.17                    |
| 22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 13.05<br>3.12             | 5.20                    |
| 22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 14.07<br>3.17             | 5.29                    |
| 22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 14.68<br>3.21             | 5.36                    |
| 22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 15.15<br>3.24             | 5.40                    |
| 22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 15.54<br>3.26             | 5.43                    |
| 22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 15.84<br>3.28             | 5.47                    |
| 22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 16.09<br>3.30             | 5.50                    |
| 22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 17.25<br>3.35             | 5.58                    |
| 22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 17.53<br>3.37             | 5.62                    |
| 22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>    | 18.64<br>3.39             | 5.66                    |
| 22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 20.01<br>3.49             | 5.81                    |
| 22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 21.53<br>3.58             | 5.97                    |
| <b>22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>   |                           |                         |
| 22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 12.10<br>3.08             | 5.13                    |
| 22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 12.41<br>3.12             | 5.20                    |
| 22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 12.89<br>3.21             | 5.36                    |
| 22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 13.16<br>3.24             | 5.40                    |
| 22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....<br><i>For Work In Restricted Working Space, Add</i>      | 13.29<br>3.26             | 5.43                    |



| MINOR  | CSI | UOM    | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|--------|--|------------------------|----------------------|
| 22 07 19 00-0419   | LF  | 1"     | 1.0" (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 13.97<br>3.35          | 5.58                 |
| 22 07 19 00-0420   | LF  | 1-1/4" | 1.0" (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 14.48<br>3.39          | 5.66                 |
| 22 07 19 00-0421   | LF  | 1-1/2" | 1.0" (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 15.01<br>3.44          | 5.74                 |
| 22 07 19 00-0422   | LF  | 1-1/2" | 1.0" (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 15.14<br>3.44          | 5.74                 |
| 22 07 19 00-0423   | LF  | 2"     | 1.0" (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 15.35<br>3.47          | 5.78                 |
| 22 07 19 00-0424   | LF  | 2"     | 1.0" (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 15.94<br>3.49          | 5.81                 |
| 22 07 19 00-0425   | LF  | 2-1/2" | 1.0" (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 16.29<br>3.53          | 5.88                 |
| 22 07 19 00-0426   | LF  | 2-1/2" | 1.0" (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 16.96<br>3.56          | 5.92                 |
| 22 07 19 00-0427   | LF  | 3"     | 1.0" (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 17.43<br>3.58          | 5.97                 |
| 22 07 19 00-0428   | LF  | 3"     | 1.0" (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 18.15<br>3.61          | 6.01                 |
| 22 07 19 00-0429   | LF  | 3-1/2" | 1.0" (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 18.43<br>3.63          | 6.04                 |
| 22 07 19 00-0430   | LF  | 4"     | 1.0" (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 19.50<br>3.67          | 6.11                 |
| 22 07 19 00-0431   | LF  | 4"     | 1.0" (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>      | 20.36<br>3.69          | 6.16                 |
| 22 07 19 00-0432   | LF  | 5"     | 1.0" (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 21.77<br>3.71          | 6.18                 |
| 22 07 19 00-0433   | LF  | 6"     | 1.0" (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>           | 23.29<br>3.76          | 6.27                 |
| 22 07 19 00-0434   | LF  | 8"     | 1.0" (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>           | 25.14<br>3.85          | 6.43                 |
| <b>22 07 19 00-0435 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>     |     |        |  |                        |                      |
| 22 07 19 00-0436   | LF  | 1/4"   | 3/8" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>     | 14.03<br>3.39          | 5.65                 |
| 22 07 19 00-0437   | LF  | 3/8"   | 1.0" (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>          | 14.41<br>3.44          | 5.74                 |
| 22 07 19 00-0438   | LF  | 1/2"   | 1.0" (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>          | 14.92<br>3.53          | 5.88                 |
| 22 07 19 00-0439   | LF  | 5/8"   | 1.0" (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>          | 15.30<br>3.56          | 5.92                 |
| 22 07 19 00-0440   | LF  | 3/4"   | 1.0" (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>          | 15.64<br>3.58          | 5.97                 |
| 22 07 19 00-0441   | LF  | 1"     | 1.0" (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 16.27<br>3.67          | 6.11                 |
| 22 07 19 00-0442   | LF  | 1-1/4" | 1.0" (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 17.22<br>3.76          | 6.27                 |
| 22 07 19 00-0443   | LF  | 1-1/2" | 1.0" (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 17.70<br>3.80          | 6.27                 |
| 22 07 19 00-0444   | LF  | 1-1/2" | 1.0" (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 18.32<br>3.83          | 6.34                 |
| 22 07 19 00-0445   | LF  | 2"     | 1.0" (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 18.55<br>3.85          | 6.43                 |
| 22 07 19 00-0446   | LF  | 2"     | 1.0" (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 19.87<br>3.90          | 6.51                 |
| 22 07 19 00-0447   | LF  | 2-1/2" | 1.0" (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 20.92<br>3.95          | 6.59                 |
| 22 07 19 00-0448   | LF  | 2-1/2" | 1.0" (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 22.20<br>3.97          | 6.63                 |
| 22 07 19 00-0449   | LF  | 3"     | 1.0" (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 22.60<br>3.99          | 6.66                 |
| 22 07 19 00-0450   | LF  | 3"     | 1.0" (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 23.28<br>4.01          | 6.70                 |
| 22 07 19 00-0451   | LF  | 3-1/2" | 1.0" (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 23.62<br>4.04          | 6.73                 |
| 22 07 19 00-0452   | LF  | 4"     | 1.0" (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 26.13<br>4.13          | 6.89                 |
| 22 07 19 00-0453   | LF  | 4"     | 1.0" (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 27.81<br>4.18          | 6.96                 |
| 22 07 19 00-0454   | LF  | 5"     | 1.0" (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>       | 30.28<br>4.22          | 7.03                 |
| 22 07 19 00-0455   | LF  | 6"     | 1.0" (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i>        | 32.92<br>4.31          | 7.19                 |
| <b>22 07 19 00-0456 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b> |     |        |  |                        |                      |
| 22 07 19 00-0457   | LF  | 3/8"   | 1/2" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 20.38<br>3.80          | 6.33                 |
| 22 07 19 00-0458   | LF  | 1/2"   | 5/8" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 20.89<br>3.89          | 6.47                 |
| 22 07 19 00-0459   | LF  | 5/8"   | 3/4" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....<br><i>For Work In Restricted Working Space, Add</i> | 21.28<br>3.91          | 6.51                 |



| MINOR                   | TOTAL DIRECT   | DEMOLITION |
|-------------------------|--|------------|
| CSI UOM DESCRIPTION     | UNIT COST  | UNIT COST  |
| 22 07 19 00-0460        | LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....21.67<br><i>For Work In Restricted Working Space, Add</i> 3.93  | 6.57       |
| 22 07 19 00-0461        | LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....22.26<br><i>For Work In Restricted Working Space, Add</i> 4.02  | 6.72       |
| 22 07 19 00-0462        | LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....23.25<br><i>For Work In Restricted Working Space, Add</i> 4.17  | 6.96       |
| 22 07 19 00-0463        | LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....24.49<br><i>For Work In Restricted Working Space, Add</i> 4.21  | 6.86       |
| 22 07 19 00-0464        | LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....25.56<br><i>For Work In Restricted Working Space, Add</i> 4.26   | 7.02       |
| 22 07 19 00-0465        | LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....26.25<br><i>For Work In Restricted Working Space, Add</i> 4.31  | 7.19       |
| 22 07 19 00-0466        | LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....28.29<br><i>For Work In Restricted Working Space, Add</i> 4.36   | 7.28       |
| 22 07 19 00-0467        | LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....30.22<br><i>For Work In Restricted Working Space, Add</i> 4.40  | 7.37       |
| 22 07 19 00-0468        | LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....31.13<br><i>For Work In Restricted Working Space, Add</i> 4.43   | 7.40       |
| 22 07 19 00-0469        | LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....32.04<br><i>For Work In Restricted Working Space, Add</i> 4.46  | 7.41       |
| 22 07 19 00-0470        | LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....33.10<br><i>For Work In Restricted Working Space, Add</i> 4.47   | 7.45       |
| 22 07 19 00-0471        | LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....33.76<br><i>For Work In Restricted Working Space, Add</i> 4.49  | 7.48       |
| 22 07 19 00-0472        | LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....37.43<br><i>For Work In Restricted Working Space, Add</i> 4.64  | 7.76       |
| 22 07 19 00-0473        | LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....39.40<br><i>For Work In Restricted Working Space, Add</i> 4.72   | 7.87       |
| 22 07 19 00-0474        | LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....44.06<br><i>For Work In Restricted Working Space, Add</i> 4.80  | 7.99       |
| 22 07 19 00-0475        | LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....48.76<br><i>For Work In Restricted Working Space, Add</i> 4.94   | 8.24       |
| <b>22 07 19 00-0476</b> | <b>2" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-0372)</small>   |            |
| 22 07 19 00-0477        | LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....28.51<br><i>For Work In Restricted Working Space, Add</i> 4.19  | 6.99       |
| 22 07 19 00-0478        | LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....29.58<br><i>For Work In Restricted Working Space, Add</i> 4.28  | 7.09       |
| 22 07 19 00-0479        | LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....31.31<br><i>For Work In Restricted Working Space, Add</i> 4.30  | 7.15       |
| 22 07 19 00-0480        | LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....31.90<br><i>For Work In Restricted Working Space, Add</i> 4.31  | 7.21       |
| 22 07 19 00-0481        | LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....33.43<br><i>For Work In Restricted Working Space, Add</i> 4.40  | 7.35       |
| 22 07 19 00-0482        | LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....35.38<br><i>For Work In Restricted Working Space, Add</i> 4.62  | 7.70       |
| 22 07 19 00-0483        | LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....36.46<br><i>For Work In Restricted Working Space, Add</i> 4.65  | 7.51       |
| 22 07 19 00-0484        | LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....38.40<br><i>For Work In Restricted Working Space, Add</i> 4.74   | 7.77       |
| 22 07 19 00-0485        | LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....40.27<br><i>For Work In Restricted Working Space, Add</i> 4.83  | 8.03       |
| 22 07 19 00-0486        | LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....41.51<br><i>For Work In Restricted Working Space, Add</i> 4.87   | 8.14       |
| 22 07 19 00-0487        | LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....44.02<br><i>For Work In Restricted Working Space, Add</i> 4.91  | 8.24       |
| 22 07 19 00-0488        | LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....44.34<br><i>For Work In Restricted Working Space, Add</i> 4.94   | 8.25       |
| 22 07 19 00-0489        | LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....46.68<br><i>For Work In Restricted Working Space, Add</i> 4.97  | 8.28       |
| 22 07 19 00-0490        | LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....48.30<br><i>For Work In Restricted Working Space, Add</i> 4.99   | 8.30       |
| 22 07 19 00-0491        | LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....50.02<br><i>For Work In Restricted Working Space, Add</i> 5.00  | 8.35       |
| 22 07 19 00-0492        | LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....55.89<br><i>For Work In Restricted Working Space, Add</i> 5.22  | 8.74       |
| 22 07 19 00-0493        | LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....59.29<br><i>For Work In Restricted Working Space, Add</i> 5.34   | 8.91       |
| 22 07 19 00-0494        | LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....60.36<br><i>For Work In Restricted Working Space, Add</i> 5.45  | 9.09       |
| 22 07 19 00-0495        | LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....67.40<br><i>For Work In Restricted Working Space, Add</i> 5.66   | 9.45       |
| <b>22 07 19 00-0496</b> | <b>Flexible Polyolefin Tubing Closed Cell Foam Insulation</b> <small>(22 07 19)</small><br>Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting. |            |
| <b>22 07 19 00-0497</b> | <b>3/8" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-0496)</small>  |            |
| 22 07 19 00-0498        | LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....9.23<br><i>For Work In Restricted Working Space, Add</i> 2.62  | 4.35       |
| 22 07 19 00-0499        | LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....9.32<br><i>For Work In Restricted Working Space, Add</i> 2.62  | 4.35       |

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR                   |     |   | TOTAL DIRECT  | DEMOLITION |
|-------------------------|-----|---|---------------|------------|
| CSI                     | UOM | DESCRIPTION   | UNIT COST     | UNIT COST  |
| 22 07 19 00-0500        | LF  | 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 9.65<br>2.71  | 4.51       |
| 22 07 19 00-0501        | LF  | 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 10.04<br>2.80 | 4.66       |
| 22 07 19 00-0502        | LF  | 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 10.29<br>2.84 | 4.75       |
| 22 07 19 00-0503        | LF  | 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 10.68<br>2.89 | 4.82       |
| 22 07 19 00-0504        | LF  | 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 10.95<br>2.90 | 4.82       |
| 22 07 19 00-0505        | LF  | 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 11.15<br>2.92 | 4.97       |
| 22 07 19 00-0506        | LF  | 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 12.08<br>3.00 | 4.97       |
| 22 07 19 00-0507        | LF  | 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 12.89<br>3.05 | 5.05       |
| 22 07 19 00-0508        | LF  | 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 14.89<br>3.12 | 5.20       |
| <b>22 07 19 00-0509</b> |     | <b>1/2" Wall Flexible Polyolefin Tubing Foam Insulation</b> (22 07 19 00-0496)  |               |            |
| 22 07 19 00-0510        | LF  | 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 10.26<br>2.84 | 4.75       |
| 22 07 19 00-0511        | LF  | 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 10.36<br>2.87 | 4.75       |
| 22 07 19 00-0512        | LF  | 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 10.54<br>2.89 | 4.82       |
| 22 07 19 00-0513        | LF  | 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 10.77<br>2.91 | 4.82       |
| 22 07 19 00-0514        | LF  | 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 11.09<br>2.98 | 4.97       |
| 22 07 19 00-0515        | LF  | 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 11.53<br>3.03 | 5.05       |
| 22 07 19 00-0516        | LF  | 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 11.98<br>3.08 | 5.13       |
| 22 07 19 00-0517        | LF  | 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 12.43<br>3.12 | 5.20       |
| 22 07 19 00-0518        | LF  | 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 13.42<br>3.21 | 5.36       |
| 22 07 19 00-0519        | LF  | 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 14.27<br>3.26 | 5.43       |
| 22 07 19 00-0520        | LF  | 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 15.89<br>3.35 | 5.58       |
| <b>22 07 19 00-0521</b> |     | <b>3/4" Wall Flexible Polyolefin Tubing Foam Insulation</b> (22 07 19 00-0496)  |               |            |
| 22 07 19 00-0522        | LF  | 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 11.42<br>3.08 | 5.13       |
| 22 07 19 00-0523        | LF  | 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 11.76<br>3.12 | 5.20       |
| 22 07 19 00-0524        | LF  | 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 12.20<br>3.21 | 5.36       |
| 22 07 19 00-0525        | LF  | 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 12.79<br>3.26 | 5.43       |
| 22 07 19 00-0526        | LF  | 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 13.40<br>3.35 | 5.58       |
| 22 07 19 00-0527        | LF  | 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 14.32<br>3.39 | 5.66       |
| 22 07 19 00-0528        | LF  | 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 14.92<br>3.41 | 5.66       |
| 22 07 19 00-0529        | LF  | 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 15.61<br>3.44 | 5.74       |
| 22 07 19 00-0530        | LF  | 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i> | 16.98<br>3.53 | 5.88       |
| 22 07 19 00-0531        | LF  | 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 18.18<br>3.58 | 5.97       |
| 22 07 19 00-0532        | LF  | 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>     | 20.49<br>3.67 | 6.11       |
| <b>22 07 19 00-0533</b> |     | <b>1" Wall Flexible Polyolefin Tubing Foam Insulation</b> (22 07 19 00-0496)  |               |            |
| 22 07 19 00-0534        | LF  | 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>       | 13.36<br>3.39 | 5.66       |
| 22 07 19 00-0535        | LF  | 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>       | 13.56<br>3.44 | 5.74       |
| 22 07 19 00-0536        | LF  | 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>       | 14.01<br>3.53 | 5.88       |
| 22 07 19 00-0537        | LF  | 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>       | 14.84<br>3.58 | 5.97       |
| 22 07 19 00-0538        | LF  | 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>       | 15.59<br>3.67 | 6.11       |
| 22 07 19 00-0539        | LF  | 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation<br><i>For Work In Restricted Working Space, Add</i>   | 16.36<br>3.76 | 6.27       |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0540 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....      | 17.05                     | 6.27                    |
| For Work In Restricted Working Space, Add  | 3.80                      |                         |
| 22 07 19 00-0541 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....           | 18.57                     | 6.43                    |
| For Work In Restricted Working Space, Add  | 3.85                      |                         |
| 22 07 19 00-0542 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....      | 20.63                     | 6.59                    |
| For Work In Restricted Working Space, Add  | 3.95                      |                         |
| 22 07 19 00-0543 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....           | 22.08                     | 6.66                    |
| For Work In Restricted Working Space, Add  | 3.99                      |                         |
| <b>22 07 19 00-0544 Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19)</small>  |                           |                         |
| Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting. |                           |                         |
| <b>22 07 19 00-0545 3/8" Wall Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19 00-0544)</small>                        |                           |                         |
| 22 07 19 00-0546 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....                | 10.30                     | 4.35                    |
| For Work In Restricted Working Space, Add  | 2.61                      |                         |
| 22 07 19 00-0547 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....                | 10.86                     | 4.51                    |
| For Work In Restricted Working Space, Add  | 2.71                      |                         |
| 22 07 19 00-0548 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....                | 11.36                     | 4.68                    |
| For Work In Restricted Working Space, Add  | 2.80                      |                         |
| 22 07 19 00-0549 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....                | 11.79                     | 4.75                    |
| For Work In Restricted Working Space, Add  | 2.84                      |                         |
| 22 07 19 00-0550 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....             | 12.25                     | 4.82                    |
| For Work In Restricted Working Space, Add  | 2.89                      |                         |
| 22 07 19 00-0551 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....            | 12.92                     | 4.85                    |
| For Work In Restricted Working Space, Add  | 2.90                      |                         |
| 22 07 19 00-0552 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....                | 13.80                     | 4.98                    |
| For Work In Restricted Working Space, Add  | 2.98                      |                         |
| 22 07 19 00-0553 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....            | 15.83                     | 5.01                    |
| For Work In Restricted Working Space, Add  | 3.00                      |                         |
| 22 07 19 00-0554 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation .....                | 17.32                     | 5.08                    |
| For Work In Restricted Working Space, Add  | 3.05                      |                         |
| <b>22 07 19 00-0555 1/2" Wall Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19 00-0544)</small>                        |                           |                         |
| 22 07 19 00-0556 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 11.75                     | 4.68                    |
| For Work In Restricted Working Space, Add  | 2.81                      |                         |
| 22 07 19 00-0557 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 12.29                     | 4.82                    |
| For Work In Restricted Working Space, Add  | 2.89                      |                         |
| 22 07 19 00-0558 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 12.66                     | 4.82                    |
| For Work In Restricted Working Space, Add  | 2.91                      |                         |
| 22 07 19 00-0559 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 13.25                     | 4.97                    |
| For Work In Restricted Working Space, Add  | 2.98                      |                         |
| 22 07 19 00-0560 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation.....             | 13.74                     | 5.05                    |
| For Work In Restricted Working Space, Add  | 3.03                      |                         |
| 22 07 19 00-0561 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....            | 14.43                     | 5.13                    |
| For Work In Restricted Working Space, Add  | 3.08                      |                         |
| 22 07 19 00-0562 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 15.74                     | 5.20                    |
| For Work In Restricted Working Space, Add  | 3.12                      |                         |
| 22 07 19 00-0563 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....            | 17.91                     | 5.36                    |
| For Work In Restricted Working Space, Add  | 3.21                      |                         |
| 22 07 19 00-0564 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 19.33                     | 5.43                    |
| For Work In Restricted Working Space, Add  | 3.26                      |                         |
| 22 07 19 00-0565 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....            | 22.18                     | 5.50                    |
| For Work In Restricted Working Space, Add  | 3.30                      |                         |
| 22 07 19 00-0566 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation .....                | 23.53                     | 5.58                    |
| For Work In Restricted Working Space, Add  | 3.35                      |                         |
| <b>22 07 19 00-0567 3/4" Wall Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19 00-0544)</small>                        |                           |                         |
| 22 07 19 00-0568 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 13.87                     | 5.10                    |
| For Work In Restricted Working Space, Add  | 3.05                      |                         |
| 22 07 19 00-0569 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 14.72                     | 5.36                    |
| For Work In Restricted Working Space, Add  | 3.21                      |                         |
| 22 07 19 00-0570 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 15.67                     | 5.43                    |
| For Work In Restricted Working Space, Add  | 3.26                      |                         |
| 22 07 19 00-0571 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 17.04                     | 5.59                    |
| For Work In Restricted Working Space, Add  | 3.35                      |                         |
| 22 07 19 00-0572 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....            | 18.01                     | 5.66                    |
| For Work In Restricted Working Space, Add  | 3.39                      |                         |
| 22 07 19 00-0573 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....            | 20.38                     | 5.74                    |
| For Work In Restricted Working Space, Add  | 3.44                      |                         |
| 22 07 19 00-0574 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 22.39                     | 5.78                    |
| For Work In Restricted Working Space, Add  | 3.47                      |                         |
| 22 07 19 00-0575 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....            | 25.46                     | 5.89                    |
| For Work In Restricted Working Space, Add  | 3.53                      |                         |
| 22 07 19 00-0576 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 27.56                     | 5.97                    |
| For Work In Restricted Working Space, Add  | 3.58                      |                         |
| 22 07 19 00-0577 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....            | 31.05                     | 6.04                    |
| For Work In Restricted Working Space, Add  | 3.63                      |                         |
| 22 07 19 00-0578 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation .....                | 32.65                     | 6.11                    |
| For Work In Restricted Working Space, Add  | 3.67                      |                         |





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |   |       |       |
|------------------|---|-------|-------|
| 22 07 19 00-0579 | 1" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)  |       |       |
| 22 07 19 00-0580 | LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 18.07 | 5.66  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.39  |       |
| 22 07 19 00-0581 | LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 18.97 | 5.89  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.53  |       |
| 22 07 19 00-0582 | LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 20.80 | 5.97  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.58  |       |
| 22 07 19 00-0583 | LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 23.01 | 6.11  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.67  |       |
| 22 07 19 00-0584 | LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....      | 25.03 | 6.27  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.76  |       |
| 22 07 19 00-0585 | LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....      | 26.53 | 6.34  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.80  |       |
| 22 07 19 00-0586 | LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 29.50 | 6.43  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.85  |       |
| 22 07 19 00-0587 | LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....      | 36.67 | 6.59  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.95  |       |
| 22 07 19 00-0588 | LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 41.81 | 6.66  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 3.99  |       |
| 22 07 19 00-0589 | LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....      | 44.60 | 6.73  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 4.04  |       |
| 22 07 19 00-0590 | LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....          | 50.34 | 6.89  |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 4.13  |       |
| 22 07 19 00-0591 | Insulation Foam Rubber (22 07 19)   |       |       |
| 22 07 19 00-0592 | Covering 4x6 Sheet (22 07 19 00-0591)   |       |       |
| 22 07 19 00-0593 | SF 1" Thick Foam Rubber Sheet Insulation .....  | 27.65 | 10.34 |
| 22 07 19 00-0594 | Insulation Protective Jacketing (22 07 19)  |       |       |
|                  | Note: Jacketing only and to be added to insulation prices when required.                                      |       |       |
| 22 07 19 00-0595 | Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0594)  |       |       |
| 22 07 19 00-0596 | Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0595)                                  |       |       |
| 22 07 19 00-0597 | SF 0.006" Aluminum Insulation Jacket With Bands .....   | 21.81 | 9.32  |
| 22 07 19 00-0598 | SF 0.010" Aluminum Insulation Jacket With Bands .....   | 22.15 | 9.32  |
| 22 07 19 00-0599 | SF 0.016" Aluminum Insulation Jacket With Bands .....   | 22.48 | 9.32  |
| 22 07 19 00-0600 | SF 0.020" Aluminum Insulation Jacket With Bands .....   | 22.77 | 9.32  |
| 22 07 19 00-0601 | SF 0.024" Aluminum Insulation Jacket With Bands .....   | 23.05 | 9.32  |
| 22 07 19 00-0602 | 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595) |       |       |
| 22 07 19 00-0603 | LF 1/2" ID, 0.016" Aluminum Insulation Jacketing .....  | 11.00 | 2.64  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.00  |       |
|                  | <i>For Corrugated, Add</i>  | 0.01  |       |
| 22 07 19 00-0604 | LF 3/4" ID, 0.016" Aluminum Insulation Jacketing .....  | 11.37 | 2.70  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.01  |       |
| 22 07 19 00-0605 | LF 1" ID, 0.016" Aluminum Insulation Jacketing .....  | 11.74 | 2.78  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.02  |       |
| 22 07 19 00-0606 | LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing .....  | 12.14 | 2.85  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.02  |       |
| 22 07 19 00-0607 | LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing .....  | 12.43 | 2.89  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.02  |       |
| 22 07 19 00-0608 | LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing .....  | 12.72 | 2.93  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.03  |       |
| 22 07 19 00-0609 | LF 2" ID, 0.016" Aluminum Insulation Jacketing .....  | 13.09 | 2.99  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.03  |       |
| 22 07 19 00-0610 | LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing .....  | 13.46 | 3.05  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.03  |       |
| 22 07 19 00-0611 | LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing .....  | 13.86 | 3.12  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.01  |       |
|                  | <i>For Corrugated, Add</i>  | 0.04  |       |
| 22 07 19 00-0612 | LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing .....  | 14.18 | 3.17  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.02  |       |
|                  | <i>For Corrugated, Add</i>  | 0.04  |       |
| 22 07 19 00-0613 | LF 3" ID, 0.016" Aluminum Insulation Jacketing .....  | 14.60 | 3.24  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.02  |       |
|                  | <i>For Corrugated, Add</i>  | 0.04  |       |
| 22 07 19 00-0614 | LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing .....  | 15.01 | 3.31  |
|                  | <i>For Stucco Embossed, Add</i>   | 0.02  |       |
|                  | <i>For Corrugated, Add</i>  | 0.04  |       |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0615 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 15.44<br>0.02<br>0.05     | 3.39                    |
| 22 07 19 00-0616 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 15.81<br>0.02<br>0.05     | 3.45                    |
| 22 07 19 00-0617 LF 4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 16.26<br>0.02<br>0.05     | 3.53                    |
| 22 07 19 00-0618 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 16.73<br>0.02<br>0.06     | 3.62                    |
| 22 07 19 00-0619 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 17.24<br>0.02<br>0.06     | 3.71                    |
| 22 07 19 00-0620 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 17.65<br>0.03<br>0.06     | 3.78                    |
| 22 07 19 00-0621 LF 5" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 18.17<br>0.03<br>0.07     | 3.88                    |
| 22 07 19 00-0622 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 18.73<br>0.03<br>0.07     | 3.99                    |
| 22 07 19 00-0623 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 19.18<br>0.03<br>0.07     | 4.07                    |
| 22 07 19 00-0624 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 19.78<br>0.03<br>0.08     | 4.19                    |
| 22 07 19 00-0625 LF 6" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 20.40<br>0.03<br>0.08     | 4.31                    |
| 22 07 19 00-0626 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 20.79<br>0.03<br>0.08     | 4.38                    |
| 22 07 19 00-0627 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 21.18<br>0.03<br>0.08     | 4.44                    |
| 22 07 19 00-0628 LF 7" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 21.82<br>0.04<br>0.09     | 4.55                    |
| 22 07 19 00-0629 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 22.38<br>0.04<br>0.09     | 4.66                    |
| 22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 22.80<br>0.04<br>0.10     | 4.74                    |
| 22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 23.36<br>0.04<br>0.10     | 4.82                    |
| 22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 23.93<br>0.04<br>0.11     | 4.90                    |
| 22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 24.67<br>0.05<br>0.11     | 5.02                    |
| 22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 25.28<br>0.05<br>0.12     | 5.11                    |
| 22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 25.89<br>0.05<br>0.13     | 5.20                    |
| 22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 26.51<br>0.05<br>0.13     | 5.30                    |
| 22 07 19 00-0637 LF 11" ID, 0.0106 Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 27.35<br>0.06<br>0.14     | 5.44                    |
| 22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 28.03<br>0.06<br>0.15     | 5.55                    |
| 22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 28.70<br>0.06<br>0.15     | 5.65                    |
| 22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 29.62<br>0.06<br>0.16     | 5.82                    |
| 22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 30.10<br>0.07<br>0.16     | 5.88                    |
| 22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 30.84<br>0.07<br>0.18     | 5.94                    |

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 22 07 19 00-0643        | LF  | 15" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 31.82<br>0.08<br>0.19     | 6.06                    |
| 22 07 19 00-0644        | LF  | 16" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 32.57<br>0.08<br>0.20     | 6.13                    |
| 22 07 19 00-0645        | LF  | 17" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 33.59<br>0.09<br>0.21     | 6.26                    |
| 22 07 19 00-0646        | LF  | 18" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 34.20<br>0.09<br>0.22     | 6.33                    |
| 22 07 19 00-0647        | LF  | 19" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 35.41<br>0.10<br>0.24     | 6.48                    |
| 22 07 19 00-0648        | LF  | 20" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 36.20<br>0.10<br>0.25     | 6.55                    |
| 22 07 19 00-0649        | LF  | 21" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 37.30<br>0.11<br>0.26     | 6.70                    |
| 22 07 19 00-0650        | LF  | 22" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 38.09<br>0.11<br>0.28     | 6.78                    |
| 22 07 19 00-0651        | LF  | 23" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 39.23<br>0.12<br>0.29     | 6.94                    |
| 22 07 19 00-0652        | LF  | 24" ID, 0.016" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                     | 40.06<br>0.12<br>0.30     | 7.02                    |
| <b>22 07 19 00-0653</b> |     | <b>20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture<br/>Barrier And Bands <small>(22 07 19 00-0595)</small></b> |                           |                         |
| 22 07 19 00-0654        | LF  | 1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                    | 12.17<br>0.01<br>0.01     | 2.92                    |
| 22 07 19 00-0655        | LF  | 3/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                    | 12.59<br>0.01<br>0.02     | 2.98                    |
| 22 07 19 00-0656        | LF  | 1" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                      | 13.04<br>0.01<br>0.02     | 3.05                    |
| 22 07 19 00-0657        | LF  | 1-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 13.48<br>0.01<br>0.02     | 3.13                    |
| 22 07 19 00-0658        | LF  | 1-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 13.83<br>0.01<br>0.03     | 3.17                    |
| 22 07 19 00-0659        | LF  | 1-3/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 14.17<br>0.01<br>0.03     | 3.22                    |
| 22 07 19 00-0660        | LF  | 2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                      | 14.59<br>0.01<br>0.04     | 3.29                    |
| 22 07 19 00-0661        | LF  | 2-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 15.01<br>0.02<br>0.04     | 3.36                    |
| 22 07 19 00-0662        | LF  | 2-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 15.48<br>0.02<br>0.04     | 3.43                    |
| 22 07 19 00-0663        | LF  | 2-3/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 15.86<br>0.02<br>0.05     | 3.48                    |
| 22 07 19 00-0664        | LF  | 3" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                      | 16.34<br>0.02<br>0.05     | 3.56                    |
| 22 07 19 00-0665        | LF  | 3-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 16.82<br>0.02<br>0.06     | 3.64                    |
| 22 07 19 00-0666        | LF  | 3-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 17.31<br>0.02<br>0.06     | 3.72                    |
| 22 07 19 00-0667        | LF  | 3-3/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 17.73<br>0.03<br>0.06     | 3.79                    |
| 22 07 19 00-0668        | LF  | 4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                      | 18.25<br>0.03<br>0.07     | 3.88                    |
| 22 07 19 00-0669        | LF  | 4-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 18.80<br>0.03<br>0.07     | 3.98                    |
| 22 07 19 00-0670        | LF  | 4-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>                  | 19.37<br>0.03<br>0.08     | 4.08                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0671 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 19.84<br>0.03<br>0.08     | 4.16                    |
| 22 07 19 00-0672 LF 5" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 20.44<br>0.03<br>0.08     | 4.27                    |
| 22 07 19 00-0673 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 21.07<br>0.04<br>0.09     | 4.38                    |
| 22 07 19 00-0674 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 21.59<br>0.04<br>0.09     | 4.48                    |
| 22 07 19 00-0675 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 22.28<br>0.04<br>0.10     | 4.61                    |
| 22 07 19 00-0676 LF 6" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 22.98<br>0.04<br>0.10     | 4.75                    |
| 22 07 19 00-0677 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 23.41<br>0.04<br>0.10     | 4.82                    |
| 22 07 19 00-0678 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 23.87<br>0.04<br>0.11     | 4.89                    |
| 22 07 19 00-0679 LF 7" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 24.61<br>0.05<br>0.11     | 5.01                    |
| 22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 25.25<br>0.05<br>0.12     | 5.13                    |
| 22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 25.73<br>0.05<br>0.12     | 5.21                    |
| 22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 26.41<br>0.05<br>0.13     | 5.30                    |
| 22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 27.06<br>0.06<br>0.14     | 5.38                    |
| 22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 27.92<br>0.06<br>0.15     | 5.52                    |
| 22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 28.64<br>0.06<br>0.15     | 5.62                    |
| 22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 29.35<br>0.06<br>0.16     | 5.72                    |
| 22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 30.07<br>0.07<br>0.17     | 5.82                    |
| 22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 31.03<br>0.07<br>0.18     | 5.98                    |
| 22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 31.81<br>0.07<br>0.19     | 6.10                    |
| 22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 32.60<br>0.08<br>0.19     | 6.22                    |
| 22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 33.66<br>0.08<br>0.20     | 6.40                    |
| 22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 34.23<br>0.08<br>0.21     | 6.48                    |
| 22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 35.13<br>0.09<br>0.22     | 6.54                    |
| 22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 36.29<br>0.10<br>0.24     | 6.68                    |
| 22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 37.21<br>0.10<br>0.26     | 6.75                    |
| 22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 38.40<br>0.11<br>0.27     | 6.89                    |
| 22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 39.12<br>0.11<br>0.28     | 6.97                    |
| 22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 40.58<br>0.12<br>0.30     | 7.12                    |

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing .....   | 41.54                     | 7.20                    |
| For Stucco Embossed, Add   | 0.13                      |                         |
| For Corrugated, Add  | 0.32                      |                         |
| 22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing .....   | 42.82                     | 7.36                    |
| For Stucco Embossed, Add   | 0.13                      |                         |
| For Corrugated, Add  | 0.33                      |                         |
| 22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing .....   | 43.77                     | 7.45                    |
| For Stucco Embossed, Add   | 0.14                      |                         |
| For Corrugated, Add  | 0.35                      |                         |
| 22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing .....   | 45.12                     | 7.63                    |
| For Stucco Embossed, Add   | 0.15                      |                         |
| For Corrugated, Add  | 0.37                      |                         |
| 22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing .....   | 46.11                     | 7.72                    |
| For Stucco Embossed, Add   | 0.15                      |                         |
| For Corrugated, Add  | 0.38                      |                         |
| <b>22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture<br/>Barrier And Bands <small>(22 07 19 00-0595)</small></b> |                           |                         |
| 22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing .....  | 13.33                     | 3.18                    |
| For Stucco Embossed, Add   | 0.01                      |                         |
| For Corrugated, Add  | 0.02                      |                         |
| 22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 13.81                     | 3.25                    |
| For Stucco Embossed, Add   | 0.01                      |                         |
| For Corrugated, Add  | 0.02                      |                         |
| 22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing .....  | 14.30                     | 3.33                    |
| For Stucco Embossed, Add   | 0.01                      |                         |
| For Corrugated, Add  | 0.02                      |                         |
| 22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 14.81                     | 3.41                    |
| For Stucco Embossed, Add   | 0.01                      |                         |
| For Corrugated, Add  | 0.03                      |                         |
| 22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing .....  | 15.20                     | 3.46                    |
| For Stucco Embossed, Add   | 0.01                      |                         |
| For Corrugated, Add  | 0.03                      |                         |
| 22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 15.60                     | 3.51                    |
| For Stucco Embossed, Add   | 0.02                      |                         |
| For Corrugated, Add  | 0.04                      |                         |
| 22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing .....  | 16.07                     | 3.58                    |
| For Stucco Embossed, Add   | 0.02                      |                         |
| For Corrugated, Add  | 0.04                      |                         |
| 22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 16.56                     | 3.66                    |
| For Stucco Embossed, Add   | 0.02                      |                         |
| For Corrugated, Add  | 0.05                      |                         |
| 22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing .....  | 17.08                     | 3.74                    |
| For Stucco Embossed, Add   | 0.02                      |                         |
| For Corrugated, Add  | 0.05                      |                         |
| 22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 17.50                     | 3.80                    |
| For Stucco Embossed, Add   | 0.02                      |                         |
| For Corrugated, Add  | 0.06                      |                         |
| 22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing .....  | 18.05                     | 3.88                    |
| For Stucco Embossed, Add   | 0.03                      |                         |
| For Corrugated, Add  | 0.06                      |                         |
| 22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 18.59                     | 3.97                    |
| For Stucco Embossed, Add   | 0.03                      |                         |
| For Corrugated, Add  | 0.07                      |                         |
| 22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing .....  | 19.14                     | 4.06                    |
| For Stucco Embossed, Add   | 0.03                      |                         |
| For Corrugated, Add  | 0.07                      |                         |
| 22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 19.61                     | 4.13                    |
| For Stucco Embossed, Add   | 0.03                      |                         |
| For Corrugated, Add  | 0.08                      |                         |
| 22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing .....  | 20.20                     | 4.23                    |
| For Stucco Embossed, Add   | 0.03                      |                         |
| For Corrugated, Add  | 0.08                      |                         |
| 22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 20.80                     | 4.34                    |
| For Stucco Embossed, Add   | 0.03                      |                         |
| For Corrugated, Add  | 0.09                      |                         |
| 22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing .....  | 21.46                     | 4.45                    |
| For Stucco Embossed, Add   | 0.04                      |                         |
| For Corrugated, Add  | 0.09                      |                         |
| 22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 21.99                     | 4.53                    |
| For Stucco Embossed, Add   | 0.04                      |                         |
| For Corrugated, Add  | 0.10                      |                         |
| 22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing .....  | 22.66                     | 4.66                    |
| For Stucco Embossed, Add   | 0.04                      |                         |
| For Corrugated, Add  | 0.10                      |                         |
| 22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 23.34                     | 4.79                    |
| For Stucco Embossed, Add   | 0.04                      |                         |
| For Corrugated, Add  | 0.11                      |                         |
| 22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing .....  | 23.94                     | 4.89                    |
| For Stucco Embossed, Add   | 0.04                      |                         |
| For Corrugated, Add  | 0.11                      |                         |
| 22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing .....  | 24.71                     | 5.03                    |
| For Stucco Embossed, Add   | 0.05                      |                         |
| For Corrugated, Add  | 0.12                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 25.49<br>0.05<br>0.12     | 5.18                    |
| 22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 25.99<br>0.05<br>0.12     | 5.26                    |
| 22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 26.49<br>0.05<br>0.13     | 5.34                    |
| 22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 27.34<br>0.06<br>0.14     | 5.46                    |
| 22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 28.04<br>0.06<br>0.14     | 5.59                    |
| 22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 28.59<br>0.06<br>0.15     | 5.68                    |
| 22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 29.37<br>0.06<br>0.16     | 5.78                    |
| 22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 30.10<br>0.07<br>0.17     | 5.87                    |
| 22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 31.08<br>0.07<br>0.17     | 6.02                    |
| 22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 31.89<br>0.07<br>0.18     | 6.13                    |
| 22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 32.71<br>0.08<br>0.19     | 6.24                    |
| 22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 33.53<br>0.08<br>0.20     | 6.35                    |
| 22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 34.60<br>0.08<br>0.21     | 6.54                    |
| 22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 35.50<br>0.09<br>0.22     | 6.66                    |
| 22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 36.38<br>0.09<br>0.23     | 6.79                    |
| 22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 37.56<br>0.10<br>0.24     | 6.99                    |
| 22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 38.22<br>0.10<br>0.25     | 7.06                    |
| 22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 39.27<br>0.11<br>0.27     | 7.13                    |
| 22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 40.60<br>0.11<br>0.29     | 7.28                    |
| 22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 41.67<br>0.12<br>0.31     | 7.36                    |
| 22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 43.04<br>0.13<br>0.32     | 7.51                    |
| 22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 43.88<br>0.13<br>0.34     | 7.60                    |
| 22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 45.54<br>0.14<br>0.36     | 7.76                    |
| 22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 46.66<br>0.15<br>0.38     | 7.85                    |
| 22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 48.13<br>0.16<br>0.40     | 8.03                    |
| 22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 49.24<br>0.17<br>0.42     | 8.12                    |
| 22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 50.77<br>0.17<br>0.44     | 8.33                    |
| 22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 51.91<br>0.18<br>0.46     | 8.42                    |

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 22 07 19 00-0755 |     | <b>32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> <small>(22 07 19 00-0595)</small> |                           |                         |
| 22 07 19 00-0756 | LF  | 1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 14.93                     | 3.52                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.01                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.02                      |                         |
| 22 07 19 00-0757 | LF  | 3/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 15.50                     | 3.60                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.01                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.03                      |                         |
| 22 07 19 00-0758 | LF  | 1" ID, 0.032" Aluminum Insulation Jacketing .....   | 16.08                     | 3.69                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.01                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.03                      |                         |
| 22 07 19 00-0759 | LF  | 1-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 16.69                     | 3.78                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.02                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.04                      |                         |
| 22 07 19 00-0760 | LF  | 1-1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 17.17                     | 3.83                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.02                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.05                      |                         |
| 22 07 19 00-0761 | LF  | 1-3/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 17.65                     | 3.89                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.02                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.05                      |                         |
| 22 07 19 00-0762 | LF  | 2" ID, 0.032" Aluminum Insulation Jacketing .....   | 18.22                     | 3.97                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.02                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.06                      |                         |
| 22 07 19 00-0763 | LF  | 2-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 18.79                     | 4.05                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.06                      |                         |
| 22 07 19 00-0764 | LF  | 2-1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 19.42                     | 4.14                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.07                      |                         |
| 22 07 19 00-0765 | LF  | 2-3/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 19.94                     | 4.21                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.08                      |                         |
| 22 07 19 00-0766 | LF  | 3" ID, 0.032" Aluminum Insulation Jacketing .....   | 20.59                     | 4.30                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.08                      |                         |
| 22 07 19 00-0767 | LF  | 3-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 21.24                     | 4.40                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.09                      |                         |
| 22 07 19 00-0768 | LF  | 3-1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 21.90                     | 4.50                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.10                      |                         |
| 22 07 19 00-0769 | LF  | 3-3/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 22.45                     | 4.58                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.10                      |                         |
| 22 07 19 00-0770 | LF  | 4" ID, 0.032" Aluminum Insulation Jacketing .....   | 23.15                     | 4.70                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.11                      |                         |
| 22 07 19 00-0771 | LF  | 4-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 23.86                     | 4.82                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.12                      |                         |
| 22 07 19 00-0772 | LF  | 4-1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 24.64                     | 4.94                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.12                      |                         |
| 22 07 19 00-0773 | LF  | 4-3/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 25.27                     | 5.03                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.13                      |                         |
| 22 07 19 00-0774 | LF  | 5" ID, 0.032" Aluminum Insulation Jacketing .....   | 26.04                     | 5.17                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.13                      |                         |
| 22 07 19 00-0775 | LF  | 5-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 26.87                     | 5.31                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.14                      |                         |
| 22 07 19 00-0776 | LF  | 5-1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 27.56                     | 5.42                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.15                      |                         |
| 22 07 19 00-0777 | LF  | 5-3/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 28.46                     | 5.57                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.15                      |                         |
| 22 07 19 00-0778 | LF  | 6" ID, 0.032" Aluminum Insulation Jacketing .....   | 29.38                     | 5.74                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.16                      |                         |
| 22 07 19 00-0779 | LF  | 6-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 29.97                     | 5.82                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.07                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.17                      |                         |
| 22 07 19 00-0780 | LF  | 6-1/2" ID, 0.032" Aluminum Insulation Jacketing .....   | 30.56                     | 5.91                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.07                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.17                      |                         |
| 22 07 19 00-0781 | LF  | 7" ID, 0.032" Aluminum Insulation Jacketing .....   | 31.59                     | 6.05                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.07                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.18                      |                         |
| 22 07 19 00-0782 | LF  | 7-1/4" ID, 0.032" Aluminum Insulation Jacketing .....   | 32.42                     | 6.19                    |
|                  |     | <i>For Stucco Embossed, Add</i> .....   | 0.08                      |                         |
|                  |     | <i>For Corrugated, Add</i> .....  | 0.19                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0783 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 33.07<br>0.08<br>0.20     | 6.29                    |
| 22 07 19 00-0784 LF 8" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 34.00<br>0.08<br>0.21     | 6.40                    |
| 22 07 19 00-0785 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 34.91<br>0.09<br>0.22     | 6.51                    |
| 22 07 19 00-0786 LF 9" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 36.08<br>0.09<br>0.23     | 6.68                    |
| 22 07 19 00-0787 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 37.07<br>0.10<br>0.25     | 6.80                    |
| 22 07 19 00-0788 LF 10" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 38.06<br>0.10<br>0.26     | 6.92                    |
| 22 07 19 00-0789 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 39.04<br>0.11<br>0.27     | 7.04                    |
| 22 07 19 00-0790 LF 11" ID, 0.0106 Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 40.34<br>0.11<br>0.28     | 7.24                    |
| 22 07 19 00-0791 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 41.42<br>0.12<br>0.30     | 7.38                    |
| 22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 42.48<br>0.12<br>0.31     | 7.52                    |
| 22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 43.89<br>0.13<br>0.32     | 7.74                    |
| 22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 44.69<br>0.13<br>0.33     | 7.82                    |
| 22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 46.04<br>0.14<br>0.36     | 7.90                    |
| 22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 47.69<br>0.15<br>0.39     | 8.07                    |
| 22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 49.05<br>0.16<br>0.41     | 8.15                    |
| 22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 50.74<br>0.17<br>0.44     | 8.33                    |
| 22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 51.79<br>0.18<br>0.45     | 8.42                    |
| 22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 53.87<br>0.19<br>0.49     | 8.61                    |
| 22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 55.28<br>0.20<br>0.51     | 8.71                    |
| 22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 57.06<br>0.21<br>0.54     | 8.91                    |
| 22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 58.48<br>0.22<br>0.56     | 9.01                    |
| 22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 60.36<br>0.23<br>0.59     | 9.22                    |
| 22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 61.79<br>0.24<br>0.61     | 9.33                    |
| <b>22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture<br/>Barrier And Bands (22 07 19 00-0595)</b>   |                           |                         |
| 22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>    | 17.25<br>0.01<br>0.03     | 4.05                    |
| 22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>    | 17.94<br>0.01<br>0.03     | 4.14                    |
| 22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 18.64<br>0.02<br>0.04     | 4.24                    |
| 22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>  | 19.36<br>0.02<br>0.05     | 4.34                    |



**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

| MINOR<br>CSI     | UOM | DESCRIPTION                                     | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 22 07 19 00-0811 | LF  | 1-1/2" ID, 0.040" Aluminum Insulation Jacketing | 19.95                     | 4.41                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.02                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.06                      |                         |
| 22 07 19 00-0812 | LF  | 1-3/4" ID, 0.040" Aluminum Insulation Jacketing | 20.52                     | 4.47                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.07                      |                         |
| 22 07 19 00-0813 | LF  | 2" ID, 0.040" Aluminum Insulation Jacketing     | 21.20                     | 4.56                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.07                      |                         |
| 22 07 19 00-0814 | LF  | 2-1/4" ID, 0.040" Aluminum Insulation Jacketing | 21.89                     | 4.67                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.03                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.08                      |                         |
| 22 07 19 00-0815 | LF  | 2-1/2" ID, 0.040" Aluminum Insulation Jacketing | 22.64                     | 4.77                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.09                      |                         |
| 22 07 19 00-0816 | LF  | 2-3/4" ID, 0.040" Aluminum Insulation Jacketing | 23.27                     | 4.85                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.10                      |                         |
| 22 07 19 00-0817 | LF  | 3" ID, 0.040" Aluminum Insulation Jacketing     | 24.04                     | 4.95                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.04                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.11                      |                         |
| 22 07 19 00-0818 | LF  | 3-1/4" ID, 0.040" Aluminum Insulation Jacketing | 24.80                     | 5.07                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.11                      |                         |
| 22 07 19 00-0819 | LF  | 3-1/2" ID, 0.040" Aluminum Insulation Jacketing | 25.58                     | 5.18                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.12                      |                         |
| 22 07 19 00-0820 | LF  | 3-3/4" ID, 0.040" Aluminum Insulation Jacketing | 26.26                     | 5.27                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.13                      |                         |
| 22 07 19 00-0821 | LF  | 4" ID, 0.040" Aluminum Insulation Jacketing     | 27.09                     | 5.40                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.05                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.14                      |                         |
| 22 07 19 00-0822 | LF  | 4-1/4" ID, 0.040" Aluminum Insulation Jacketing | 27.94                     | 5.53                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.15                      |                         |
| 22 07 19 00-0823 | LF  | 4-1/2" ID, 0.040" Aluminum Insulation Jacketing | 28.85                     | 5.67                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.15                      |                         |
| 22 07 19 00-0824 | LF  | 4-3/4" ID, 0.040" Aluminum Insulation Jacketing | 29.61                     | 5.79                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.06                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.16                      |                         |
| 22 07 19 00-0825 | LF  | 5" ID, 0.040" Aluminum Insulation Jacketing     | 30.53                     | 5.94                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.07                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.17                      |                         |
| 22 07 19 00-0826 | LF  | 5-1/4" ID, 0.040" Aluminum Insulation Jacketing | 31.49                     | 6.10                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.07                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.18                      |                         |
| 22 07 19 00-0827 | LF  | 5-1/2" ID, 0.040" Aluminum Insulation Jacketing | 32.32                     | 6.23                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.07                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.18                      |                         |
| 22 07 19 00-0828 | LF  | 5-3/4" ID, 0.040" Aluminum Insulation Jacketing | 33.38                     | 6.41                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.08                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.19                      |                         |
| 22 07 19 00-0829 | LF  | 6" ID, 0.040" Aluminum Insulation Jacketing     | 34.45                     | 6.60                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.08                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.20                      |                         |
| 22 07 19 00-0830 | LF  | 6-1/4" ID, 0.040" Aluminum Insulation Jacketing | 35.16                     | 6.70                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.08                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.21                      |                         |
| 22 07 19 00-0831 | LF  | 6-1/2" ID, 0.040" Aluminum Insulation Jacketing | 35.89                     | 6.81                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.09                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.22                      |                         |
| 22 07 19 00-0832 | LF  | 7" ID, 0.040" Aluminum Insulation Jacketing     | 37.11                     | 6.96                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.09                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.23                      |                         |
| 22 07 19 00-0833 | LF  | 7-1/4" ID, 0.040" Aluminum Insulation Jacketing | 38.09                     | 7.13                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.10                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.24                      |                         |
| 22 07 19 00-0834 | LF  | 7-1/2" ID, 0.040" Aluminum Insulation Jacketing | 38.86                     | 7.25                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.10                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.25                      |                         |
| 22 07 19 00-0835 | LF  | 8" ID, 0.040" Aluminum Insulation Jacketing     | 39.98                     | 7.37                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.11                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.26                      |                         |
| 22 07 19 00-0836 | LF  | 8-1/2" ID, 0.040" Aluminum Insulation Jacketing | 41.08                     | 7.49                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.11                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.28                      |                         |
| 22 07 19 00-0837 | LF  | 9" ID, 0.040" Aluminum Insulation Jacketing     | 42.48                     | 7.68                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.12                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.29                      |                         |
| 22 07 19 00-0838 | LF  | 9-1/2" ID, 0.040" Aluminum Insulation Jacketing | 43.68                     | 7.81                    |
|                  |     | <i>For Stucco Embossed, Add</i>                 | 0.12                      |                         |
|                  |     | <i>For Corrugated, Add</i>                      | 0.31                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0839 LF 10" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 44.85<br>0.13<br>0.33     | 7.95                    |
| 22 07 19 00-0840 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 46.07<br>0.14<br>0.34     | 8.10                    |
| 22 07 19 00-0841 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>      | 47.59<br>0.14<br>0.36     | 8.33                    |
| 22 07 19 00-0842 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 48.88<br>0.15<br>0.37     | 8.49                    |
| 22 07 19 00-0843 LF 12" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 50.17<br>0.16<br>0.39     | 8.65                    |
| 22 07 19 00-0844 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i> | 51.83<br>0.16<br>0.40     | 8.91                    |
| 22 07 19 00-0845 LF 13" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 52.82<br>0.17<br>0.42     | 9.00                    |
| 22 07 19 00-0846 LF 14" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 54.46<br>0.18<br>0.45     | 9.09                    |
| 22 07 19 00-0847 LF 15" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 56.47<br>0.19<br>0.48     | 9.28                    |
| 22 07 19 00-0848 LF 16" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 58.14<br>0.21<br>0.52     | 9.38                    |
| 22 07 19 00-0849 LF 17" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 60.20<br>0.22<br>0.55     | 9.58                    |
| 22 07 19 00-0850 LF 18" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 61.46<br>0.23<br>0.57     | 9.68                    |
| 22 07 19 00-0851 LF 19" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 64.00<br>0.24<br>0.61     | 9.90                    |
| 22 07 19 00-0852 LF 20" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 65.73<br>0.26<br>0.64     | 10.01                   |
| 22 07 19 00-0853 LF 21" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 67.89<br>0.27<br>0.67     | 10.25                   |
| 22 07 19 00-0854 LF 22" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 69.62<br>0.28<br>0.70     | 10.37                   |
| 22 07 19 00-0855 LF 23" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 71.88<br>0.29<br>0.74     | 10.61                   |
| 22 07 19 00-0856 LF 24" ID, 0.040" Aluminum Insulation Jacketing .....<br><i>For Stucco Embossed, Add</i><br><i>For Corrugated, Add</i>     | 73.64<br>0.31<br>0.77     | 10.74                   |
| <br><b>22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0595)</b>  |                           |                         |
| 22 07 19 00-0858 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 22.81                     | 4.16                    |
| 22 07 19 00-0859 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 23.42                     | 4.31                    |
| 22 07 19 00-0860 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 25.69                     | 4.48                    |
| 22 07 19 00-0861 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 25.97                     | 4.55                    |
| 22 07 19 00-0862 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 26.26                     | 4.63                    |
| 22 07 19 00-0863 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 26.71                     | 4.74                    |
| 22 07 19 00-0864 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 27.84                     | 4.86                    |
| 22 07 19 00-0865 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 28.33                     | 4.98                    |
| 22 07 19 00-0866 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 30.21                     | 5.07                    |
| 22 07 19 00-0867 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 30.82                     | 5.16                    |
| 22 07 19 00-0868 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 31.86                     | 5.30                    |
| 22 07 19 00-0869 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 32.56                     | 5.39                    |
| 22 07 19 00-0870 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 32.97                     | 5.49                    |
| 22 07 19 00-0871 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 33.39                     | 5.60                    |
| 22 07 19 00-0872 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 35.23                     | 5.71                    |
| 22 07 19 00-0873 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 37.59                     | 5.82                    |
| 22 07 19 00-0874 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 41.82                     | 6.00                    |
| 22 07 19 00-0875 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 42.32                     | 6.13                    |
| 22 07 19 00-0876 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 40.50                     | 6.33                    |
| 22 07 19 00-0877 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 41.06                     | 6.48                    |
| 22 07 19 00-0878 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 45.06                     | 6.70                    |
| 22 07 19 00-0879 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 49.60                     | 6.85                    |
| 22 07 19 00-0880 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 49.92                     | 6.94                    |
| 22 07 19 00-0881 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 60.70                     | 7.02                    |
| 22 07 19 00-0882 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 52.74                     | 7.10                    |
| 22 07 19 00-0883 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....   | 74.08                     | 7.28                    |
| 22 07 19 00-0884 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 74.83                     | 7.47                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 07 19 00-0885 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....  | 63.32                     | 7.56                    |
| 22 07 19 00-0886 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 63.73                     | 7.66                    |
| 22 07 19 00-0887 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing..... | 64.85                     | 7.76                    |
| 22 07 19 00-0888 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 65.27                     | 7.87                    |
| 22 07 19 00-0889 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing..... | 70.77                     | 8.09                    |
| 22 07 19 00-0890 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 71.22                     | 8.20                    |
| 22 07 19 00-0891 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing..... | 102.12                    | 8.44                    |
| 22 07 19 00-0892 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 102.62                    | 8.57                    |
| 22 07 19 00-0893 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 126.97                    | 8.83                    |
| 22 07 19 00-0894 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 132.24                    | 9.10                    |
| 22 07 19 00-0895 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....     | 141.53                    | 9.24                    |
| 22 07 19 00-0896 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 24.90                     | 4.63                    |
| 22 07 19 00-0897 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 25.35                     | 4.74                    |
| 22 07 19 00-0898 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 26.67                     | 4.86                    |
| 22 07 19 00-0899 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 27.16                     | 4.98                    |
| 22 07 19 00-0900 EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....      | 28.53                     | 5.07                    |
| 22 07 19 00-0901 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 28.88                     | 5.16                    |
| 22 07 19 00-0902 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 29.58                     | 5.30                    |
| 22 07 19 00-0903 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 31.16                     | 5.39                    |
| 22 07 19 00-0904 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 31.57                     | 5.49                    |
| 22 07 19 00-0905 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 31.99                     | 5.60                    |
| 22 07 19 00-0906 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 34.10                     | 5.71                    |
| 22 07 19 00-0907 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 34.56                     | 5.82                    |
| 22 07 19 00-0908 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 35.83                     | 6.00                    |
| 22 07 19 00-0909 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 37.13                     | 6.33                    |
| 22 07 19 00-0910 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 43.09                     | 6.70                    |
| 22 07 19 00-0911 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 43.72                     | 6.85                    |
| 22 07 19 00-0912 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 44.53                     | 7.02                    |
| 22 07 19 00-0913 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 44.87                     | 7.10                    |
| 22 07 19 00-0914 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 49.59                     | 7.28                    |
| 22 07 19 00-0915 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....         | 50.34                     | 7.47                    |
| 22 07 19 00-0916 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....     | 58.67                     | 7.56                    |
| 22 07 19 00-0917 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 59.08                     | 7.66                    |
| 22 07 19 00-0918 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....    | 57.64                     | 7.76                    |
| 22 07 19 00-0919 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 58.06                     | 7.87                    |
| 22 07 19 00-0920 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....    | 64.29                     | 8.09                    |
| 22 07 19 00-0921 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 64.74                     | 8.20                    |
| 22 07 19 00-0922 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 71.74                     | 8.57                    |
| 22 07 19 00-0923 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 81.29                     | 8.83                    |
| 22 07 19 00-0924 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 107.25                    | 9.10                    |
| 22 07 19 00-0925 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 113.79                    | 9.24                    |
| 22 07 19 00-0926 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 112.57                    | 9.39                    |
| 22 07 19 00-0927 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 123.74                    | 9.55                    |
| 22 07 19 00-0928 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 143.33                    | 9.70                    |
| 22 07 19 00-0929 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 140.56                    | 9.87                    |
| 22 07 19 00-0930 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....        | 149.28                    | 10.04                   |
| 22 07 19 00-0931 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 70.51                     | 6.62                    |
| 22 07 19 00-0932 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing.....                 | 71.13                     | 6.78                    |
| 22 07 19 00-0933 EA 3" ID, Aluminum Tee Insulation Jacketing.....                     | 77.49                     | 6.94                    |
| 22 07 19 00-0934 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing.....                 | 78.17                     | 7.10                    |
| 22 07 19 00-0935 EA 3-1/2" ID Aluminum Tee Insulation Jacketing.....                  | 81.26                     | 7.28                    |
| 22 07 19 00-0936 EA 4" ID, Aluminum Tee Insulation Jacketing.....                     | 82.58                     | 7.47                    |
| 22 07 19 00-0937 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing.....                 | 86.41                     | 7.66                    |
| 22 07 19 00-0938 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 86.77                     | 7.87                    |
| 22 07 19 00-0939 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing.....                 | 87.65                     | 8.09                    |
| 22 07 19 00-0940 EA 5" ID, Aluminum Tee Insulation Jacketing.....                     | 90.64                     | 8.33                    |
| 22 07 19 00-0941 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing.....                 | 91.62                     | 8.57                    |
| 22 07 19 00-0942 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 95.20                     | 8.83                    |
| 22 07 19 00-0943 EA 6" ID, Aluminum Tee Insulation Jacketing.....                     | 96.30                     | 9.10                    |
| 22 07 19 00-0944 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 104.62                    | 9.70                    |
| 22 07 19 00-0945 EA 7" ID, Aluminum Tee Insulation Jacketing.....                     | 105.96                    | 10.04                   |
| 22 07 19 00-0946 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 114.76                    | 10.40                   |
| 22 07 19 00-0947 EA 8" ID, Aluminum Tee Insulation Jacketing.....                     | 116.31                    | 10.79                   |
| 22 07 19 00-0948 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 119.89                    | 11.20                   |
| 22 07 19 00-0949 EA 9" ID, Aluminum Tee Insulation Jacketing.....                     | 121.68                    | 11.64                   |
| 22 07 19 00-0950 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing.....                 | 103.28                    | 11.88                   |
| 22 07 19 00-0951 EA 10" ID, Aluminum Tee Insulation Jacketing.....                    | 104.26                    | 12.14                   |
| 22 07 19 00-0952 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing.....                | 108.93                    | 12.39                   |
| 22 07 19 00-0953 EA 11" ID, Aluminum Tee Insulation Jacketing.....                    | 110.01                    | 12.66                   |
| 22 07 19 00-0954 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing.....                | 114.37                    | 12.94                   |
| 22 07 19 00-0955 EA 12" ID, Aluminum Tee Insulation Jacketing.....                    | 115.55                    | 13.23                   |
| 22 07 19 00-0956 EA 13" ID, Aluminum Tee Insulation Jacketing.....                    | 119.90                    | 13.54                   |
| 22 07 19 00-0957 EA 14" ID, Aluminum Tee Insulation Jacketing.....                    | 124.41                    | 13.87                   |
| 22 07 19 00-0958 EA 15" ID, Aluminum Tee Insulation Jacketing.....                    | 131.38                    | 14.21                   |
| 22 07 19 00-0959 EA 16" ID, Aluminum Tee Insulation Jacketing.....                    | 134.67                    | 14.56                   |
| 22 07 19 00-0960 EA 17" ID, Aluminum Tee Insulation Jacketing.....                    | 147.61                    | 14.93                   |
| 22 07 19 00-0961 EA 18" ID, Aluminum Tee Insulation Jacketing.....                    | 152.59                    | 15.32                   |
| 22 07 19 00-0962 EA 19" ID, Aluminum Tee Insulation Jacketing.....                    | 163.92                    | 15.75                   |
| 22 07 19 00-0963 EA 20" ID, Aluminum Tee Insulation Jacketing.....                    | 167.87                    | 16.18                   |
| 22 07 19 00-0964 EA 22" ID, Aluminum Tee Insulation Jacketing.....                    | 197.79                    | 16.64                   |
| 22 07 19 00-0965 EA 23" ID, Aluminum Tee Insulation Jacketing.....                    | 203.40                    | 17.13                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-0966 EA 24" ID, Aluminum Tee Insulation Jacketing .....  | 213.54                    | 18.79                   |
| <b>22 07 19 00-0967 Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)</b>  |                           |                         |
| <b>22 07 19 00-0968 Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0967)</b>                         |                           |                         |
| 22 07 19 00-0969 SF 0.010" Stainless Steel Insulation Jacket With Bands .....  | 27.11                     | 10.92                   |
| 22 07 19 00-0970 SF 0.016" Stainless Steel Insulation Jacket With Bands .....  | 33.23                     | 13.10                   |
| <b>22 07 19 00-0971 10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)</b> |                           |                         |
| 22 07 19 00-0972 LF 2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 13.22                     | 2.33                    |
| 22 07 19 00-0973 LF 2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 13.75                     | 2.37                    |
| 22 07 19 00-0974 LF 3" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 14.29                     | 2.42                    |
| 22 07 19 00-0975 LF 3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 14.85                     | 2.48                    |
| 22 07 19 00-0976 LF 3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 15.42                     | 2.53                    |
| 22 07 19 00-0977 LF 3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 15.99                     | 2.58                    |
| 22 07 19 00-0978 LF 4" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 16.57                     | 2.64                    |
| 22 07 19 00-0979 LF 4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 17.16                     | 2.70                    |
| 22 07 19 00-0980 LF 4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 17.76                     | 2.78                    |
| 22 07 19 00-0981 LF 5" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 19.01                     | 2.92                    |
| 22 07 19 00-0982 LF 5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 20.32                     | 3.07                    |
| 22 07 19 00-0983 LF 6" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 21.68                     | 3.24                    |
| 22 07 19 00-0984 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 22.74                     | 3.33                    |
| 22 07 19 00-0985 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 23.84                     | 3.43                    |
| 22 07 19 00-0986 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 25.03                     | 3.55                    |
| 22 07 19 00-0987 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 25.98                     | 3.62                    |
| 22 07 19 00-0988 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 26.95                     | 3.69                    |
| 22 07 19 00-0989 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 27.93                     | 3.76                    |
| 22 07 19 00-0990 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....   | 28.91                     | 3.83                    |
| 22 07 19 00-0991 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing .....  | 29.92                     | 3.91                    |
| 22 07 19 00-0992 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....  | 30.94                     | 3.99                    |
| 22 07 19 00-0993 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing .....  | 31.96                     | 4.07                    |
| 22 07 19 00-0994 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing .....  | 34.05                     | 4.25                    |
| 22 07 19 00-0995 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing .....  | 36.09                     | 4.41                    |
| 22 07 19 00-0996 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing .....  | 37.74                     | 4.48                    |
| <b>22 07 19 00-0997 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)</b> |                           |                         |
| 22 07 19 00-0998 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 18.05                     | 3.10                    |
| 22 07 19 00-0999 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 18.80                     | 3.16                    |
| 22 07 19 00-1000 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 19.56                     | 3.23                    |
| 22 07 19 00-1001 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 20.35                     | 3.30                    |
| 22 07 19 00-1002 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 21.14                     | 3.37                    |
| 22 07 19 00-1003 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 21.95                     | 3.44                    |
| 22 07 19 00-1004 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 22.76                     | 3.52                    |
| 22 07 19 00-1005 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 23.58                     | 3.60                    |
| 22 07 19 00-1006 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 24.41                     | 3.69                    |
| 22 07 19 00-1007 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 26.17                     | 3.87                    |
| 22 07 19 00-1008 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 27.99                     | 4.07                    |
| 22 07 19 00-1009 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 29.89                     | 4.30                    |
| 22 07 19 00-1010 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 31.39                     | 4.42                    |
| 22 07 19 00-1011 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 32.93                     | 4.55                    |
| 22 07 19 00-1012 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 34.58                     | 4.73                    |
| 22 07 19 00-1013 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 35.93                     | 4.82                    |
| 22 07 19 00-1014 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 37.30                     | 4.91                    |
| 22 07 19 00-1015 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 38.70                     | 5.00                    |
| 22 07 19 00-1016 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....   | 40.09                     | 5.10                    |
| 22 07 19 00-1017 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing .....  | 41.50                     | 5.20                    |
| 22 07 19 00-1018 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....  | 42.96                     | 5.31                    |
| 22 07 19 00-1019 LF 11" ID, 0.016" Stainless Steel Insulation Jacketing .....  | 44.39                     | 5.42                    |
| 22 07 19 00-1020 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing .....  | 47.33                     | 5.65                    |
| 22 07 19 00-1021 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing .....  | 50.22                     | 5.87                    |
| 22 07 19 00-1022 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing .....  | 52.57                     | 5.96                    |
| <b>22 07 19 00-1023 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)</b>                             |                           |                         |
| 22 07 19 00-1024 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 35.70                     | 4.63                    |
| 22 07 19 00-1025 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 36.15                     | 4.74                    |
| 22 07 19 00-1026 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 37.42                     | 4.86                    |
| 22 07 19 00-1027 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 37.91                     | 4.98                    |
| 22 07 19 00-1028 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 39.17                     | 5.07                    |
| 22 07 19 00-1029 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 40.59                     | 5.16                    |
| 22 07 19 00-1030 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 43.14                     | 5.30                    |
| 22 07 19 00-1031 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 50.76                     | 5.39                    |
| 22 07 19 00-1032 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 51.17                     | 5.49                    |
| 22 07 19 00-1033 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....   | 52.71                     | 5.71                    |

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR  |     |  | TOTAL DIRECT | DEMOLITION |
|--|-----|--|--------------|------------|
| CSI  | UOM | DESCRIPTION  | UNIT COST    | UNIT COST  |
| 22 07 19 00-1034   | EA  | 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....  | 68.54        | 6.00       |
| 22 07 19 00-1035   | EA  | 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....      | 74.19        | 6.33       |
| 22 07 19 00-1036   | EA  | 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....  | 94.05        | 6.70       |
| 22 07 19 00-1037   | EA  | 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....      | 94.68        | 6.85       |
| 22 07 19 00-1038   | EA  | 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....  | 106.62       | 7.02       |
| 22 07 19 00-1039   | EA  | 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....      | 107.67       | 7.28       |
| 22 07 19 00-1040   | EA  | 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....  | 110.34       | 7.28       |
| 22 07 19 00-1041   | EA  | 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....      | 153.41       | 7.47       |
| 22 07 19 00-1042   | EA  | 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....  | 151.64       | 7.56       |
| 22 07 19 00-1043   | EA  | 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....     | 152.05       | 7.66       |
| 22 07 19 00-1044   | EA  | 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing..... | 176.30       | 7.76       |
| 22 07 19 00-1045   | EA  | 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....     | 170.13       | 7.87       |
| 22 07 19 00-1046   | EA  | 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....     | 190.21       | 8.20       |
| 22 07 19 00-1047   | EA  | 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....     | 252.34       | 8.57       |
| 22 07 19 00-1048   | EA  | 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....     | 254.85       | 8.83       |
| 22 07 19 00-1049   | EA  | 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 32.84        | 4.63       |
| 22 07 19 00-1050   | EA  | 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 33.29        | 4.74       |
| 22 07 19 00-1051   | EA  | 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 34.86        | 4.86       |
| 22 07 19 00-1052   | EA  | 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 35.35        | 4.98       |
| 22 07 19 00-1053   | EA  | 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 35.89        | 5.07       |
| 22 07 19 00-1054   | EA  | 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 36.24        | 5.16       |
| 22 07 19 00-1055   | EA  | 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 41.27        | 5.30       |
| 22 07 19 00-1056   | EA  | 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 49.77        | 5.39       |
| 22 07 19 00-1057   | EA  | 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 50.18        | 5.49       |
| 22 07 19 00-1058   | EA  | 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 50.60        | 5.60       |
| 22 07 19 00-1059   | EA  | 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 51.52        | 5.71       |
| 22 07 19 00-1060   | EA  | 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 52.70        | 6.00       |
| 22 07 19 00-1061   | EA  | 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 59.35        | 6.33       |
| 22 07 19 00-1062   | EA  | 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 60.81        | 6.70       |
| 22 07 19 00-1063   | EA  | 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 84.99        | 6.85       |
| 22 07 19 00-1064   | EA  | 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 86.83        | 7.02       |
| 22 07 19 00-1065   | EA  | 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 87.17        | 7.10       |
| 22 07 19 00-1066   | EA  | 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 97.88        | 7.28       |
| 22 07 19 00-1067   | EA  | 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....         | 98.63        | 7.47       |
| 22 07 19 00-1068   | EA  | 9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....     | 110.98       | 7.56       |
| 22 07 19 00-1069   | EA  | 10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....        | 111.39       | 7.66       |
| 22 07 19 00-1070   | EA  | 10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....    | 128.08       | 7.76       |
| 22 07 19 00-1071   | EA  | 11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....        | 128.50       | 7.87       |
| 22 07 19 00-1072   | EA  | 12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....        | 138.17       | 8.20       |
| 22 07 19 00-1073   | EA  | 13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....        | 158.24       | 8.57       |
| <b>22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)</b>        |     |  |              |            |
| <b>22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)</b> |     |  |              |            |
| 22 07 19 00-1076   | LF  | 1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 10.31        | 2.16       |
| 22 07 19 00-1077   | LF  | 2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 11.20        | 2.24       |
| 22 07 19 00-1078   | LF  | 2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 11.98        | 2.33       |
| 22 07 19 00-1079   | LF  | 3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 12.92        | 2.42       |
| 22 07 19 00-1080   | LF  | 3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 13.77        | 2.53       |
| 22 07 19 00-1081   | LF  | 4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 14.72        | 2.64       |
| 22 07 19 00-1082   | LF  | 4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 15.71        | 2.78       |
| 22 07 19 00-1083   | LF  | 5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 16.68        | 2.92       |
| 22 07 19 00-1084   | LF  | 5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 17.79        | 3.07       |
| 22 07 19 00-1085   | LF  | 6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 18.96        | 3.24       |
| 22 07 19 00-1086   | LF  | 6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 19.82        | 3.33       |
| 22 07 19 00-1087   | LF  | 7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 20.63        | 3.43       |
| 22 07 19 00-1088   | LF  | 7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 21.70        | 3.55       |
| 22 07 19 00-1089   | LF  | 8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 22.38        | 3.62       |
| 22 07 19 00-1090   | LF  | 8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 23.15        | 3.69       |
| 22 07 19 00-1091   | LF  | 9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....          | 23.92        | 3.76       |
| 22 07 19 00-1092   | LF  | 9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....      | 24.70        | 3.83       |
| 22 07 19 00-1093   | LF  | 10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 25.44        | 3.91       |
| 22 07 19 00-1094   | LF  | 10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....     | 26.25        | 3.99       |
| 22 07 19 00-1095   | LF  | 11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 27.07        | 4.07       |
| 22 07 19 00-1096   | LF  | 11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....     | 27.91        | 4.16       |
| 22 07 19 00-1097   | LF  | 12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 28.69        | 4.25       |
| 22 07 19 00-1098   | LF  | 12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....     | 29.63        | 4.34       |
| 22 07 19 00-1099   | LF  | 13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 30.31        | 4.41       |
| 22 07 19 00-1100   | LF  | 13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....     | 30.80        | 4.41       |
| 22 07 19 00-1101   | LF  | 14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 31.56        | 4.48       |
| 22 07 19 00-1102   | LF  | 15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 32.82        | 4.55       |
| 22 07 19 00-1103   | LF  | 16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 34.02        | 4.63       |
| 22 07 19 00-1104   | LF  | 17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 35.30        | 4.70       |
| 22 07 19 00-1105   | LF  | 18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 36.58        | 4.78       |
| 22 07 19 00-1106   | LF  | 19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 37.82        | 4.86       |
| 22 07 19 00-1107   | LF  | 20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 39.13        | 4.94       |
| 22 07 19 00-1108   | LF  | 21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 40.37        | 5.02       |
| 22 07 19 00-1109   | LF  | 22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 41.70        | 5.11       |
| 22 07 19 00-1110   | LF  | 23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 42.98        | 5.20       |
| 22 07 19 00-1111   | LF  | 24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....         | 44.34        | 5.30       |



| MINOR CSI UOM DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|------------------------|----------------------|
| 22 07 19 00-1112 LF 25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 45.71                  | 5.39                 |
| 22 07 19 00-1113 LF 26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 47.03                  | 5.49                 |
| 22 07 19 00-1114 LF 27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 48.43                  | 5.60                 |
| 22 07 19 00-1115 LF 28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 49.78                  | 5.71                 |
| 22 07 19 00-1116 LF 29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 51.22                  | 5.82                 |
| 22 07 19 00-1117 LF 30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 52.67                  | 5.94                 |
| <b>22 07 19 00-1118 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)</b>       |                        |                      |
| 22 07 19 00-1119 LF 2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 12.25                  | 2.24                 |
| 22 07 19 00-1120 LF 2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 13.31                  | 2.33                 |
| 22 07 19 00-1121 LF 3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 14.46                  | 2.42                 |
| 22 07 19 00-1122 LF 3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 15.52                  | 2.53                 |
| 22 07 19 00-1123 LF 4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 16.68                  | 2.64                 |
| 22 07 19 00-1124 LF 4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 17.88                  | 2.78                 |
| 22 07 19 00-1125 LF 5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 19.13                  | 2.92                 |
| 22 07 19 00-1126 LF 5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 20.45                  | 3.07                 |
| 22 07 19 00-1127 LF 6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 21.83                  | 3.24                 |
| 22 07 19 00-1128 LF 6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 22.90                  | 3.33                 |
| 22 07 19 00-1129 LF 7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 23.99                  | 3.43                 |
| 22 07 19 00-1130 LF 7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 25.27                  | 3.55                 |
| 22 07 19 00-1131 LF 8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 26.23                  | 3.62                 |
| 22 07 19 00-1132 LF 8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 27.21                  | 3.69                 |
| 22 07 19 00-1133 LF 9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                   | 28.18                  | 3.76                 |
| 22 07 19 00-1134 LF 9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                               | 29.17                  | 3.83                 |
| 22 07 19 00-1135 LF 10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 30.19                  | 3.91                 |
| 22 07 19 00-1136 LF 10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                              | 31.21                  | 3.99                 |
| 22 07 19 00-1137 LF 11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 32.24                  | 4.07                 |
| 22 07 19 00-1138 LF 11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                              | 33.29                  | 4.16                 |
| 22 07 19 00-1139 LF 12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 34.35                  | 4.25                 |
| 22 07 19 00-1140 LF 12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                              | 35.50                  | 4.34                 |
| 22 07 19 00-1141 LF 13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 36.47                  | 4.41                 |
| 22 07 19 00-1142 LF 13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                              | 37.17                  | 4.41                 |
| 22 07 19 00-1143 LF 14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 38.14                  | 4.48                 |
| 22 07 19 00-1144 LF 15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 39.82                  | 4.55                 |
| 22 07 19 00-1145 LF 16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 41.51                  | 4.63                 |
| 22 07 19 00-1146 LF 17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 43.21                  | 4.70                 |
| 22 07 19 00-1147 LF 18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 44.98                  | 4.78                 |
| 22 07 19 00-1148 LF 19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 46.71                  | 4.86                 |
| 22 07 19 00-1149 LF 20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 48.44                  | 4.94                 |
| 22 07 19 00-1150 LF 21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 50.17                  | 5.02                 |
| 22 07 19 00-1151 LF 22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 51.92                  | 5.11                 |
| 22 07 19 00-1152 LF 23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 53.69                  | 5.20                 |
| 22 07 19 00-1153 LF 24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 55.47                  | 5.30                 |
| 22 07 19 00-1154 LF 25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 57.33                  | 5.39                 |
| 22 07 19 00-1155 LF 26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 59.14                  | 5.49                 |
| 22 07 19 00-1156 LF 27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 60.95                  | 5.60                 |
| 22 07 19 00-1157 LF 28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 62.79                  | 5.71                 |
| 22 07 19 00-1158 LF 29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 64.65                  | 5.82                 |
| 22 07 19 00-1159 LF 30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing                                  | 66.52                  | 5.94                 |
| <b>22 07 19 00-1160 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-1074)</b> |                        |                      |
| 22 07 19 00-1161 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 21.10                  | 4.31                 |
| 22 07 19 00-1162 EA 2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                         | 22.68                  | 4.48                 |
| 22 07 19 00-1163 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 23.52                  | 4.55                 |
| 22 07 19 00-1164 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 24.37                  | 4.63                 |
| 22 07 19 00-1165 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 25.31                  | 4.74                 |
| 22 07 19 00-1166 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                         | 26.14                  | 4.86                 |
| 22 07 19 00-1167 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 27.71                  | 5.02                 |
| 22 07 19 00-1168 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 29.15                  | 5.16                 |
| 22 07 19 00-1169 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 31.96                  | 5.30                 |
| 22 07 19 00-1170 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 35.20                  | 5.55                 |
| 22 07 19 00-1171 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 38.48                  | 5.82                 |
| 22 07 19 00-1172 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 44.53                  | 6.13                 |
| 22 07 19 00-1173 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 59.26                  | 6.48                 |
| 22 07 19 00-1174 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 61.91                  | 6.70                 |
| 22 07 19 00-1175 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 71.42                  | 6.85                 |
| 22 07 19 00-1176 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 74.25                  | 7.02                 |
| 22 07 19 00-1177 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 88.53                  | 7.28                 |
| 22 07 19 00-1178 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                     | 109.60                 | 7.56                 |
| 22 07 19 00-1179 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 120.06                 | 7.87                 |
| 22 07 19 00-1180 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 134.34                 | 8.20                 |
| 22 07 19 00-1181 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 162.45                 | 8.57                 |
| 22 07 19 00-1182 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 181.82                 | 8.83                 |
| 22 07 19 00-1183 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 193.84                 | 9.10                 |
| 22 07 19 00-1184 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 208.83                 | 9.24                 |
| 22 07 19 00-1185 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 228.24                 | 9.39                 |
| 22 07 19 00-1186 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 284.14                 | 9.55                 |
| 22 07 19 00-1187 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing                    | 372.74                 | 9.70                 |

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



| MINOR            |     |  |  | TOTAL DIRECT | DEMOLITION |
|------------------|-----|--|--|--------------|------------|
| CSI              | UOM | DESCRIPTION  |  | UNIT COST    | UNIT COST  |
| 22 07 19 00-1188 | EA  | 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....                                 |  | 468.63       | 9.87       |
| 22 07 19 00-1189 | EA  | 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 21.10        | 4.31       |
| 22 07 19 00-1190 | EA  | 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                      |  | 22.68        | 4.48       |
| 22 07 19 00-1191 | EA  | 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 23.52        | 4.55       |
| 22 07 19 00-1192 | EA  | 2-1/2"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                   |  | 24.37        | 4.63       |
| 22 07 19 00-1193 | EA  | 2-3/4"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                   |  | 25.31        | 4.74       |
| 22 07 19 00-1194 | EA  | 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                      |  | 26.14        | 4.86       |
| 22 07 19 00-1195 | EA  | 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 27.71        | 5.02       |
| 22 07 19 00-1196 | EA  | 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 29.15        | 5.16       |
| 22 07 19 00-1197 | EA  | 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 31.96        | 5.30       |
| 22 07 19 00-1198 | EA  | 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 35.20        | 5.55       |
| 22 07 19 00-1199 | EA  | 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 38.48        | 5.82       |
| 22 07 19 00-1200 | EA  | 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 44.53        | 6.13       |
| 22 07 19 00-1201 | EA  | 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 59.26        | 6.48       |
| 22 07 19 00-1202 | EA  | 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 61.91        | 6.70       |
| 22 07 19 00-1203 | EA  | 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 71.42        | 6.85       |
| 22 07 19 00-1204 | EA  | 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 74.25        | 7.02       |
| 22 07 19 00-1205 | EA  | 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 88.53        | 7.28       |
| 22 07 19 00-1206 | EA  | 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                  |  | 109.60       | 7.56       |
| 22 07 19 00-1207 | EA  | 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 119.99       | 7.87       |
| 22 07 19 00-1208 | EA  | 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 130.42       | 8.20       |
| 22 07 19 00-1209 | EA  | 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 143.21       | 8.57       |
| 22 07 19 00-1210 | EA  | 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 159.78       | 8.83       |
| 22 07 19 00-1211 | EA  | 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 169.98       | 9.10       |
| 22 07 19 00-1212 | EA  | 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 189.52       | 9.24       |
| 22 07 19 00-1213 | EA  | 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 209.35       | 9.39       |
| 22 07 19 00-1214 | EA  | 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 248.11       | 9.55       |
| 22 07 19 00-1215 | EA  | 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 325.16       | 9.70       |
| 22 07 19 00-1216 | EA  | 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....                                 |  | 363.81       | 9.87       |
| 22 07 19 00-1217 | EA  | 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 31.55        | 6.06       |
| 22 07 19 00-1218 | EA  | 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 33.05        | 6.19       |
| 22 07 19 00-1219 | EA  | 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 34.56        | 6.40       |
| 22 07 19 00-1220 | EA  | 2-1/2"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 36.27        | 6.62       |
| 22 07 19 00-1221 | EA  | 2-3/4"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 38.19        | 6.85       |
| 22 07 19 00-1222 | EA  | 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 40.10        | 7.10       |
| 22 07 19 00-1223 | EA  | 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 42.92        | 7.37       |
| 22 07 19 00-1224 | EA  | 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 45.91        | 7.66       |
| 22 07 19 00-1225 | EA  | 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 49.96        | 7.98       |
| 22 07 19 00-1226 | EA  | 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 55.74        | 8.33       |
| 22 07 19 00-1227 | EA  | 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 61.78        | 8.70       |
| 22 07 19 00-1228 | EA  | 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 72.88        | 9.24       |
| 22 07 19 00-1229 | EA  | 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 85.99        | 9.70       |
| 22 07 19 00-1230 | EA  | 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 97.85        | 9.87       |
| 22 07 19 00-1231 | EA  | 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 135.19       | 10.22      |
| 22 07 19 00-1232 | EA  | 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 146.57       | 10.79      |
| 22 07 19 00-1233 | EA  | 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 170.61       | 11.20      |
| 22 07 19 00-1234 | EA  | 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....  |  | 194.93       | 11.64      |
| 22 07 19 00-1235 | EA  | 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 198.62       | 12.14      |
| 22 07 19 00-1236 | EA  | 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 216.31       | 12.39      |
| 22 07 19 00-1237 | EA  | 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 234.05       | 12.66      |
| 22 07 19 00-1238 | EA  | 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 251.96       | 12.94      |
| 22 07 19 00-1239 | EA  | 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 269.72       | 13.23      |
| 22 07 19 00-1240 | EA  | 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 287.68       | 13.54      |
| 22 07 19 00-1241 | EA  | 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 305.48       | 13.87      |
| 22 07 19 00-1242 | EA  | 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 332.02       | 14.21      |
| 22 07 19 00-1243 | EA  | 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 358.49       | 14.56      |
| 22 07 19 00-1244 | EA  | 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....   |  | 390.57       | 14.93      |
| 22 07 19 00-1245 | EA  | 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....   |  | 47.08        | 4.16       |
| 22 07 19 00-1246 | EA  | 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....     |  | 47.08        | 4.16       |
| 22 07 19 00-1247 | EA  | 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing..... |  | 55.80        | 4.31       |
| 22 07 19 00-1248 | EA  | 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing..... |  | 55.80        | 4.31       |
| 22 07 19 00-1249 | EA  | 2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....      |  | 78.73        | 4.48       |
| 22 07 19 00-1250 | EA  | 2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....  |  | 86.16        | 4.66       |
| 22 07 19 00-1251 | EA  | 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....     |  | 95.06        | 4.86       |
| 22 07 19 00-1252 | EA  | 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing..... |  | 107.80       | 5.07       |
| 22 07 19 00-1253 | EA  | 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....     |  | 118.72       | 5.30       |
| 22 07 19 00-1254 | EA  | 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....     |  | 144.56       | 5.82       |
| 22 07 19 00-1255 | EA  | 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....     |  | 205.01       | 6.48       |
| 22 07 19 00-1256 | EA  | 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....     |  | 224.20       | 7.28       |
| 22 07 19 00-1257 | EA  | 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....    |  | 280.65       | 7.76       |
| 22 07 19 00-1258 | EA  | 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....    |  | 393.22       | 8.57       |
| 22 07 19 00-1259 | EA  | 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....    |  | 395.44       | 8.96       |
| 22 07 19 00-1260 | EA  | 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....    |  | 526.01       | 9.24       |
| 22 07 19 00-1261 | EA  | 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....    |  | 710.76       | 9.55       |
| 22 07 19 00-1262 | EA  | 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....   |  | 43.72        | 4.16       |
| 22 07 19 00-1263 | EA  | 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....     |  | 43.72        | 4.16       |
| 22 07 19 00-1264 | EA  | 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing..... |  | 51.75        | 4.31       |
| 22 07 19 00-1265 | EA  | 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing..... |  | 51.75        | 4.31       |
| 22 07 19 00-1266 | EA  | 2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....      |  | 72.08        | 4.48       |
| 22 07 19 00-1267 | EA  | 2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....  |  | 78.75        | 4.66       |
| 22 07 19 00-1268 | EA  | 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....     |  | 86.94        | 4.86       |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 07 19 00-1269 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing..... | 91.49                     | 5.07                    |
| 22 07 19 00-1270 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....     | 107.95                    | 5.30                    |
| 22 07 19 00-1271 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....     | 131.20                    | 5.82                    |
| 22 07 19 00-1272 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....     | 185.35                    | 6.48                    |
| 22 07 19 00-1273 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....     | 202.65                    | 7.28                    |
| 22 07 19 00-1274 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....    | 253.22                    | 7.76                    |
| 22 07 19 00-1275 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....    | 353.96                    | 8.57                    |
| 22 07 19 00-1276 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....    | 451.69                    | 8.96                    |
| 22 07 19 00-1277 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....    | 540.78                    | 9.24                    |
| 22 07 19 00-1278 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....    | 632.81                    | 9.55                    |
| 22 07 19 00-1279 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....               | 64.72                     | 6.26                    |
| 22 07 19 00-1280 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 64.72                     | 6.26                    |
| 22 07 19 00-1281 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....             | 75.98                     | 6.48                    |
| 22 07 19 00-1282 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....             | 75.98                     | 6.48                    |
| 22 07 19 00-1283 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 105.78                    | 6.70                    |
| 22 07 19 00-1284 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....             | 115.61                    | 6.94                    |
| 22 07 19 00-1285 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 127.43                    | 7.28                    |
| 22 07 19 00-1286 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....             | 134.44                    | 7.56                    |
| 22 07 19 00-1287 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 159.12                    | 7.98                    |
| 22 07 19 00-1288 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 174.92                    | 8.70                    |
| 22 07 19 00-1289 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 246.16                    | 9.70                    |
| 22 07 19 00-1290 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                 | 267.90                    | 10.79                   |
| 22 07 19 00-1291 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                | 371.12                    | 11.64                   |
| 22 07 19 00-1292 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                | 517.15                    | 12.66                   |
| 22 07 19 00-1293 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                | 617.66                    | 13.54                   |
| 22 07 19 00-1294 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                | 731.40                    | 13.87                   |
| 22 07 19 00-1295 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....                | 801.46                    | 14.21                   |

### 22 10 Plumbing Piping <sup>(22)</sup>

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

### 22 11 Facility Water Distribution <sup>(22 10)</sup>

#### 22 11 16 Domestic Water Piping <sup>(22 11)</sup>

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

#### 22 11 16 00-0001

#### Galvanized Steel Pipe Assemblies <sup>(22 11 16)</sup>

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

|   |    |  |       |      |
|---|----|--|-------|------|
| 22 11 16 00-0002  | LF | 1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 24.77 | 5.64 |
| Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |    |  |       |      |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   |    |  | 6.47  |      |
| For ASTM 120, Deduct  |    |  | -0.91 |      |
| For Work In Restricted Working Space, Add   |    |  | 5.61  |      |
| 22 11 16 00-0003  | LF | 3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 27.32 | 6.06 |
| Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |    |  |       |      |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   |    |  | 7.35  |      |
| For ASTM 120, Deduct  |    |  | -1.13 |      |
| For Work In Restricted Working Space, Add   |    |  | 5.94  |      |
| 22 11 16 00-0004  | LF | 1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....     | 31.23 | 6.63 |
| Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |    |  |       |      |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   |    |  | 8.76  |      |
| For ASTM 120, Deduct  |    |  | -1.51 |      |
| For Work In Restricted Working Space, Add   |    |  | 6.35  |      |
| 22 11 16 00-0005  | LF | 1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly..... | 36.83 | 6.91 |
| Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |    |  |       |      |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   |    |  | 10.96 |      |
| For ASTM 120, Deduct  |    |  | -2.16 |      |
| For Work In Restricted Working Space, Add   |    |  | 6.74  |      |
| 22 11 16 00-0006  | LF | 1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly..... | 39.87 | 8.18 |
| Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |    |  |       |      |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   |    |  | 12.08 |      |
| For ASTM 120, Deduct  |    |  | -2.47 |      |
| For Work In Restricted Working Space, Add   |    |  | 7.03  |      |
| 22 11 16 00-0007  | LF | 2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....     | 48.42 | 9.86 |
| Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |    |  |       |      |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   |    |  | 15.12 |      |
| For ASTM 120, Deduct  |    |  | -3.26 |      |
| For Work In Restricted Working Space, Add   |    |  | 8.00  |      |





| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 22 11 16 00-0008 | LF  |     | 2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....71.33<br>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings).<br>All hangers are complete assemblies. Not for use where detail is available.<br><i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 24.29<br><i>For ASTM 120, Deduct</i> -6.01<br><i>For Work In Restricted Working Space, Add</i> 9.37 |                        | 11.70                |
| 22 11 16 00-0009 | LF  |     | 3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....88.07<br>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings).<br>All hangers are complete assemblies. Not for use where detail is available.<br><i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 30.17<br><i>For ASTM 120, Deduct</i> -7.53<br><i>For Work In Restricted Working Space, Add</i> 11.36    |                        | 15.65                |
| 22 11 16 00-0010 | LF  |     | 4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....133.30<br>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings).<br>All hangers are complete assemblies. Not for use where detail is available.<br><i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 50.28<br><i>For ASTM 120, Deduct</i> -14.17<br><i>For Work In Restricted Working Space, Add</i> 11.64  |                        | 16.61                |
| 22 11 16 00-0011 | LF  |     | 5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....235.93<br>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings).<br>All hangers are complete assemblies. Not for use where detail is available.<br><i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 94.45<br><i>For ASTM 120, Deduct</i> -28.36<br><i>For Work In Restricted Working Space, Add</i> 14.07  |                        | 21.23                |
| 22 11 16 00-0012 | LF  |     | 6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....286.58<br>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings).<br>All hangers are complete assemblies. Not for use where detail is available.<br><i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 115.64<br><i>For ASTM 120, Deduct</i> -35.00<br><i>For Work In Restricted Working Space, Add</i> 15.98 |                        | 25.11                |
| 22 11 16 00-0013 |     |     | <b>Galvanized Steel Pipe And Threaded Fittings</b> <small>(22 11 16)</small><br>Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.  |                        |                      |
| 22 11 16 00-0014 |     |     | <b>Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small><br>Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.  |                        |                      |
| 22 11 16 00-0015 | LF  |     | 1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....11.98<br><i>For Schedule 80 Pipe, Add</i> 2.50<br><i>For ASTM 120, Deduct</i> -0.51<br><i>For Work In Restricted Working Space, Add</i> 2.57   |                        | 5.64                 |
| 22 11 16 00-0016 | LF  |     | 3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....13.63<br><i>For Schedule 80 Pipe, Add</i> 3.08<br><i>For ASTM 120, Deduct</i> -0.68<br><i>For Work In Restricted Working Space, Add</i> 2.73   |                        | 6.06                 |
| 22 11 16 00-0017 | LF  |     | 1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....16.58<br><i>For Schedule 80 Pipe, Add</i> 4.22<br><i>For ASTM 120, Deduct</i> -1.01<br><i>For Work In Restricted Working Space, Add</i> 2.96   |                        | 6.63                 |
| 22 11 16 00-0018 | LF  |     | 1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....19.56<br><i>For Schedule 80 Pipe, Add</i> 5.42<br><i>For ASTM 120, Deduct</i> -1.37<br><i>For Work In Restricted Working Space, Add</i> 3.14   |                        | 6.91                 |
| 22 11 16 00-0019 | LF  |     | 1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....23.16<br><i>For Schedule 80 Pipe, Add</i> 6.46<br><i>For ASTM 120, Deduct</i> -1.64<br><i>For Work In Restricted Working Space, Add</i> 3.68   |                        | 8.18                 |
| 22 11 16 00-0020 | LF  |     | 2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....29.47<br><i>For Schedule 80 Pipe, Add</i> 8.51<br><i>For ASTM 120, Deduct</i> -2.19<br><i>For Work In Restricted Working Space, Add</i> 4.45   |                        | 9.86                 |
| 22 11 16 00-0021 | LF  |     | 2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....40.83<br><i>For Schedule 80 Pipe, Add</i> 12.90<br><i>For ASTM 120, Deduct</i> -3.48<br><i>For Work In Restricted Working Space, Add</i> 5.29  |                        | 11.70                |
| 22 11 16 00-0022 | LF  |     | 3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....53.89<br><i>For Schedule 80 Pipe, Add</i> 16.94<br><i>For ASTM 120, Deduct</i> -4.56<br><i>For Work In Restricted Working Space, Add</i> 7.05  |                        | 15.65                |
| 22 11 16 00-0023 | LF  |     | 4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....68.24<br><i>For Schedule 80 Pipe, Add</i> 23.26<br><i>For ASTM 120, Deduct</i> -6.49<br><i>For Work In Restricted Working Space, Add</i> 7.49  |                        | 16.61                |
| 22 11 16 00-0024 | LF  |     | 5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....89.81<br><i>For Schedule 80 Pipe, Add</i> 31.03<br><i>For ASTM 120, Deduct</i> -8.70<br><i>For Work In Restricted Working Space, Add</i> 9.54  |                        | 21.23                |
| 22 11 16 00-0025 | LF  |     | 6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....112.87<br><i>For Schedule 80 Pipe, Add</i> 39.89<br><i>For ASTM 120, Deduct</i> -11.29<br><i>For Work In Restricted Working Space, Add</i> 11.28   |                        | 25.11                |
| 22 11 16 00-0026 | LF  |     | 8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....126.73<br><i>For Schedule 80 Pipe, Add</i> 43.57<br><i>For ASTM 120, Deduct</i> -12.20<br><i>For Work In Restricted Working Space, Add</i> 13.63   |                        | 30.35                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 11 16 00-0027 Seamless, Threaded And Coupled, Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small> |                           |                         |
| Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.                   |                           |                         |
| 22 11 16 00-0028 LF 1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                            | 16.74                     | 5.64                    |
| For Schedule 80 Pipe, Add   | 4.79                      |                         |
| For ASTM 120, Deduct  | -1.23                     |                         |
| For Work In Restricted Working Space, Add   | 2.57                      |                         |
| 22 11 16 00-0029 LF 3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                            | 18.91                     | 6.06                    |
| For Schedule 80 Pipe, Add   | 5.62                      |                         |
| For ASTM 120, Deduct  | -1.47                     |                         |
| For Work In Restricted Working Space, Add   | 2.73                      |                         |
| 22 11 16 00-0030 LF 1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                              | 21.26                     | 6.63                    |
| For Schedule 80 Pipe, Add   | 6.46                      |                         |
| For ASTM 120, Deduct  | -1.71                     |                         |
| For Work In Restricted Working Space, Add   | 2.96                      |                         |
| 22 11 16 00-0031 LF 1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                          | 24.79                     | 6.91                    |
| For Schedule 80 Pipe, Add   | 7.93                      |                         |
| For ASTM 120, Deduct  | -2.15                     |                         |
| For Work In Restricted Working Space, Add   | 3.14                      |                         |
| 22 11 16 00-0032 LF 1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                          | 28.63                     | 8.18                    |
| For Schedule 80 Pipe, Add   | 9.08                      |                         |
| For ASTM 120, Deduct  | -2.46                     |                         |
| For Work In Restricted Working Space, Add   | 3.68                      |                         |
| 22 11 16 00-0033 LF 2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                              | 33.49                     | 9.86                    |
| For Schedule 80 Pipe, Add   | 10.44                     |                         |
| For ASTM 120, Deduct  | -2.80                     |                         |
| For Work In Restricted Working Space, Add   | 4.45                      |                         |
| 22 11 16 00-0034 LF 2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                          | 48.83                     | 11.70                   |
| For Schedule 80 Pipe, Add   | 16.74                     |                         |
| For ASTM 120, Deduct  | -4.68                     |                         |
| For Work In Restricted Working Space, Add   | 5.29                      |                         |
| 22 11 16 00-0035 LF 3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                              | 61.66                     | 15.65                   |
| For Schedule 80 Pipe, Add   | 20.67                     |                         |
| For ASTM 120, Deduct  | -5.72                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0036 LF 4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                              | 79.53                     | 16.61                   |
| For Schedule 80 Pipe, Add   | 28.68                     |                         |
| For ASTM 120, Deduct  | -8.18                     |                         |
| For Work In Restricted Working Space, Add   | 7.49                      |                         |
| 22 11 16 00-0037 LF 5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                              | 103.00                    | 21.23                   |
| For Schedule 80 Pipe, Add   | 37.36                     |                         |
| For ASTM 120, Deduct  | -10.68                    |                         |
| For Work In Restricted Working Space, Add   | 9.54                      |                         |
| 22 11 16 00-0038 LF 6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....                              | 128.70                    | 25.11                   |
| For Schedule 80 Pipe, Add   | 47.48                     |                         |
| For ASTM 120, Deduct  | -13.66                    |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| <b>22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows</b> <small>(22 11 16 00-0013)</small>            |                           |                         |
| 22 11 16 00-0040 EA 1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                               | 44.81                     | 25.10                   |
| For 300 LB Rating, Add  | 26.77                     |                         |
| For ASTM 120, Deduct  | -1.08                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0041 EA 3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                               | 50.93                     | 28.06                   |
| For 300 LB Rating, Add  | 32.61                     |                         |
| For ASTM 120, Deduct  | -1.33                     |                         |
| For Work In Restricted Working Space, Add   | 12.62                     |                         |
| 22 11 16 00-0042 EA 1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                                 | 63.39                     | 31.29                   |
| For 300 LB Rating, Add  | 58.58                     |                         |
| For ASTM 120, Deduct  | -2.46                     |                         |
| For Work In Restricted Working Space, Add   | 14.10                     |                         |
| 22 11 16 00-0043 EA 1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                             | 79.13                     | 35.53                   |
| For 300 LB Rating, Add  | 91.32                     |                         |
| For ASTM 120, Deduct  | -3.89                     |                         |
| For Work In Restricted Working Space, Add   | 15.96                     |                         |
| 22 11 16 00-0044 EA 1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                             | 93.82                     | 40.04                   |
| For 300 LB Rating, Add  | 118.62                    |                         |
| For ASTM 120, Deduct  | -5.07                     |                         |
| For Work In Restricted Working Space, Add   | 18.00                     |                         |
| 22 11 16 00-0045 EA 2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                                 | 131.61                    | 50.89                   |
| For 300 LB Rating, Add  | 192.97                    |                         |
| For ASTM 120, Deduct  | -8.31                     |                         |
| For Work In Restricted Working Space, Add   | 22.86                     |                         |
| 22 11 16 00-0046 EA 2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                             | 257.77                    | 75.29                   |
| For 300 LB Rating, Add  | 499.70                    |                         |
| For ASTM 120, Deduct  | -21.75                    |                         |
| For Work In Restricted Working Space, Add   | 33.84                     |                         |
| 22 11 16 00-0047 EA 3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                                 | 387.43                    | 98.97                   |
| For 300 LB Rating, Add  | 821.61                    |                         |
| For ASTM 120, Deduct  | -35.85                    |                         |
| For Work In Restricted Working Space, Add   | 44.52                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0048 EA 4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                       | 567.31                    | 97.18                   |
| For 300 LB Rating, Add  | 1,442.12                  |                         |
| For ASTM 120, Deduct  | -63.24                    |                         |
| For Work In Restricted Working Space, Add   | 43.72                     |                         |
| 22 11 16 00-0049 EA 5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                       | 1,972.69                  | 101.43                  |
| For 300 LB Rating, Add  | 6,199.23                  |                         |
| For ASTM 120, Deduct  | -273.09                   |                         |
| For Work In Restricted Working Space, Add   | 45.62                     |                         |
| 22 11 16 00-0050 EA 6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                       | 1,837.39                  | 106.05                  |
| For 300 LB Rating, Add  | 5,716.13                  |                         |
| For ASTM 120, Deduct  | -251.76                   |                         |
| For Work In Restricted Working Space, Add   | 47.69                     |                         |
| 22 11 16 00-0051 EA 8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....                       | 2,191.03                  | 110.82                  |
| For 300 LB Rating, Add  | 6,894.59                  |                         |
| For ASTM 120, Deduct  | -303.73                   |                         |
| For Work In Restricted Working Space, Add   | 49.84                     |                         |
| <b>22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)</b>        |                           |                         |
| 22 11 16 00-0053 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 55.24                     | 26.51                   |
| For ASTM 120, Deduct  | -2.31                     |                         |
| For Work In Restricted Working Space, Add   | 11.95                     |                         |
| 22 11 16 00-0054 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....       | 64.29                     | 29.74                   |
| For ASTM 120, Deduct  | -2.96                     |                         |
| For Work In Restricted Working Space, Add   | 13.36                     |                         |
| 22 11 16 00-0055 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....       | 63.25                     | 28.20                   |
| For ASTM 120, Deduct  | -3.14                     |                         |
| For Work In Restricted Working Space, Add   | 12.69                     |                         |
| 22 11 16 00-0056 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 83.23                     | 33.42                   |
| For ASTM 120, Deduct  | -4.97                     |                         |
| For Work In Restricted Working Space, Add   | 15.03                     |                         |
| 22 11 16 00-0057 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....   | 87.44                     | 31.72                   |
| For ASTM 120, Deduct  | -5.97                     |                         |
| For Work In Restricted Working Space, Add   | 14.29                     |                         |
| 22 11 16 00-0058 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....   | 87.57                     | 30.31                   |
| For ASTM 120, Deduct  | -6.33                     |                         |
| For Work In Restricted Working Space, Add   | 13.62                     |                         |
| 22 11 16 00-0059 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow ..... | 109.55                    | 37.78                   |
| For ASTM 120, Deduct  | -7.94                     |                         |
| For Work In Restricted Working Space, Add   | 16.98                     |                         |
| 22 11 16 00-0060 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 106.45                    | 35.67                   |
| For ASTM 120, Deduct  | -7.94                     |                         |
| For Work In Restricted Working Space, Add   | 16.05                     |                         |
| 22 11 16 00-0061 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....   | 103.99                    | 33.98                   |
| For ASTM 120, Deduct  | -7.94                     |                         |
| For Work In Restricted Working Space, Add   | 15.31                     |                         |
| 22 11 16 00-0062 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 129.97                    | 45.39                   |
| For ASTM 120, Deduct  | -9.28                     |                         |
| For Work In Restricted Working Space, Add   | 20.43                     |                         |
| 22 11 16 00-0063 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 135.62                    | 43.14                   |
| For ASTM 120, Deduct  | -10.64                    |                         |
| For Work In Restricted Working Space, Add   | 19.41                     |                         |
| 22 11 16 00-0064 EA 2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....         | 135.18                    | 41.03                   |
| For ASTM 120, Deduct  | -11.04                    |                         |
| For Work In Restricted Working Space, Add   | 18.48                     |                         |
| 22 11 16 00-0065 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....       | 114.97                    | 39.48                   |
| For ASTM 120, Deduct  | -8.37                     |                         |
| For Work In Restricted Working Space, Add   | 17.74                     |                         |
| 22 11 16 00-0066 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 304.20                    | 63.02                   |
| For ASTM 120, Deduct  | -31.46                    |                         |
| For Work In Restricted Working Space, Add   | 28.35                     |                         |
| 22 11 16 00-0067 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow ..... | 320.02                    | 57.66                   |
| For ASTM 120, Deduct  | -35.04                    |                         |
| For Work In Restricted Working Space, Add   | 25.92                     |                         |
| 22 11 16 00-0068 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....     | 511.72                    | 87.12                   |
| For ASTM 120, Deduct  | -57.17                    |                         |
| For Work In Restricted Working Space, Add   | 39.18                     |                         |
| 22 11 16 00-0069 EA 3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....         | 443.33                    | 74.87                   |
| For ASTM 120, Deduct  | -49.65                    |                         |
| For Work In Restricted Working Space, Add   | 33.69                     |                         |
| 22 11 16 00-0070 EA 4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....         | 1,001.07                  | 92.43                   |
| For ASTM 120, Deduct  | -129.37                   |                         |
| For Work In Restricted Working Space, Add   | 41.58                     |                         |
| <b>22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)</b>                  |                           |                         |
| 22 11 16 00-0072 EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....                     | 45.70                     | 25.10                   |
| For 300 LB Rating, Add  | 29.80                     |                         |
| For ASTM 120, Deduct  | -1.22                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0073 EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....                     | 53.73                     | 28.06                   |
| For 300 LB Rating, Add  | 42.13                     |                         |
| For ASTM 120, Deduct  | -1.75                     |                         |
| For Work In Restricted Working Space, Add   | 12.62                     |                         |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 22 11 16 00-0074        | EA  |     | 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 60.14                  | 31.29                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 47.53                  |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -1.97                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 14.10                  |                      |
| 22 11 16 00-0075        | EA  |     | 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow | 77.78                  | 35.53                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 86.73                  |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -3.69                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 15.96                  |                      |
| 22 11 16 00-0076        | EA  |     | 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow | 88.85                  | 40.04                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 101.72                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -4.33                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 18.00                  |                      |
| 22 11 16 00-0077        | EA  |     | 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 118.90                 | 50.89                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 149.75                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -6.41                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 22.86                  |                      |
| 22 11 16 00-0078        | EA  |     | 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow | 261.36                 | 75.29                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 511.91                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -22.29                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 33.84                  |                      |
| 22 11 16 00-0079        | EA  |     | 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 364.48                 | 98.97                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 743.58                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -32.41                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 44.52                  |                      |
| 22 11 16 00-0080        | EA  |     | 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 507.98                 | 97.18                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 1,240.39               |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -54.34                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 43.72                  |                      |
| 22 11 16 00-0081        | EA  |     | 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 1,615.85               | 101.43               |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 4,985.98               |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -219.57                |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 45.62                  |                      |
| 22 11 16 00-0082        | EA  |     | 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 1,923.95               | 106.05               |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 6,010.44               |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -264.75                |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 47.69                  |                      |
| 22 11 16 00-0083        | EA  |     | 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow     | 2,292.42               | 110.82               |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 7,239.32               |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -318.94                |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 49.84                  |                      |
| <b>22 11 16 00-0084</b> |     |     | <b>Galvanized Malleable Iron Tees (22 11 16 00-0013)</b>  |                        |                      |
| 22 11 16 00-0085        | EA  |     | 1/2", 150 LB, Galvanized Malleable Iron Tee               | 55.90                  | 31.29                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 33.11                  |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -1.34                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 14.10                  |                      |
| 22 11 16 00-0086        | EA  |     | 3/4", 150 LB, Galvanized Malleable Iron Tee               | 68.92                  | 36.23                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 53.23                  |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -2.21                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 16.27                  |                      |
| 22 11 16 00-0087        | EA  |     | 1", 150 LB, Galvanized Malleable Iron Tee                 | 87.85                  | 42.72                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 84.63                  |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -3.56                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 19.23                  |                      |
| 22 11 16 00-0088        | EA  |     | 1-1/4", 150 LB, Galvanized Malleable Iron Tee             | 113.91                 | 50.89                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 132.79                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -5.66                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 22.86                  |                      |
| 22 11 16 00-0089        | EA  |     | 1-1/2", 150 LB, Galvanized Malleable Iron Tee             | 137.82                 | 60.63                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 164.82                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -7.03                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 27.29                  |                      |
| 22 11 16 00-0090        | EA  |     | 2", 150 LB, Galvanized Malleable Iron Tee                 | 188.98                 | 75.29                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 265.81                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -11.43                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 33.84                  |                      |
| 22 11 16 00-0091        | EA  |     | 2-1/2", 150 LB, Galvanized Malleable Iron Tee             | 337.09                 | 81.77                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 736.66                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -32.18                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 36.78                  |                      |
| 22 11 16 00-0092        | EA  |     | 3", 150 LB, Galvanized Malleable Iron Tee                 | 399.94                 | 98.97                |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 864.14                 |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -37.73                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 44.52                  |                      |
| 22 11 16 00-0093        | EA  |     | 4", 150 LB, Galvanized Malleable Iron Tee                 | 779.15                 | 122.79               |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 2,034.28               |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -89.26                 |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 55.22                  |                      |
| 22 11 16 00-0094        | EA  |     | 5", 150 LB, Galvanized Malleable Iron Tee                 | 2,089.13               | 145.77               |
|                         |     |     | <i>For 300 LB Rating, Add</i>                             | 6,372.92               |                      |
|                         |     |     | <i>For ASTM 120, Deduct</i>                               | -280.58                |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>          | 65.58                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0095 EA 6", 150 LB, Galvanized Malleable Iron Tee.....                | 2,371.45                  | 166.63                  |
| For 300 LB Rating, Add  | 7,228.50                  |                         |
| For ASTM 120, Deduct  | -318.24                   |                         |
| For Work In Restricted Working Space, Add   | 74.95                     |                         |
| 22 11 16 00-0096 EA 8", 150 LB, Galvanized Malleable Iron Tee.....                | 2,820.67                  | 197.86                  |
| For 300 LB Rating, Add  | 8,588.95                  |                         |
| For ASTM 120, Deduct  | -378.13                   |                         |
| For Work In Restricted Working Space, Add   | 89.94                     |                         |
| <b>22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee</b> (22 11 16 00-0013) |                           |                         |
| 22 11 16 00-0098 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....     | 67.70                     | 31.29                   |
| For 300 LB Rating, Add  | 73.23                     |                         |
| For ASTM 120, Deduct  | -3.11                     |                         |
| For Work In Restricted Working Space, Add   | 14.10                     |                         |
| 22 11 16 00-0099 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....     | 74.65                     | 36.23                   |
| For 300 LB Rating, Add  | 72.72                     |                         |
| For ASTM 120, Deduct  | -3.06                     |                         |
| For Work In Restricted Working Space, Add   | 16.27                     |                         |
| 22 11 16 00-0100 EA 1", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 92.80                     | 42.72                   |
| For 300 LB Rating, Add  | 101.46                    |                         |
| For ASTM 120, Deduct  | -4.31                     |                         |
| For Work In Restricted Working Space, Add   | 19.23                     |                         |
| 22 11 16 00-0101 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....   | 120.71                    | 50.89                   |
| For 300 LB Rating, Add  | 155.91                    |                         |
| For ASTM 120, Deduct  | -6.68                     |                         |
| For Work In Restricted Working Space, Add   | 22.86                     |                         |
| 22 11 16 00-0102 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....   | 145.93                    | 60.63                   |
| For 300 LB Rating, Add  | 192.39                    |                         |
| For ASTM 120, Deduct  | -8.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.29                     |                         |
| 22 11 16 00-0103 EA 2", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 193.06                    | 75.29                   |
| For 300 LB Rating, Add  | 279.69                    |                         |
| For ASTM 120, Deduct  | -12.04                    |                         |
| For Work In Restricted Working Space, Add   | 33.84                     |                         |
| 22 11 16 00-0104 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....   | 406.49                    | 82.05                   |
| For 300 LB Rating, Add  | 971.31                    |                         |
| For ASTM 120, Deduct  | -42.53                    |                         |
| For Work In Restricted Working Space, Add   | 36.89                     |                         |
| 22 11 16 00-0105 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 518.44                    | 100.52                  |
| For 300 LB Rating, Add  | 1,259.19                  |                         |
| For ASTM 120, Deduct  | -55.15                    |                         |
| For Work In Restricted Working Space, Add   | 45.23                     |                         |
| 22 11 16 00-0106 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 1,249.95                  | 122.79                  |
| For 300 LB Rating, Add  | 3,635.00                  |                         |
| For ASTM 120, Deduct  | -159.88                   |                         |
| For Work In Restricted Working Space, Add   | 55.22                     |                         |
| 22 11 16 00-0107 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 2,808.55                  | 145.77                  |
| For 300 LB Rating, Add  | 8,818.95                  |                         |
| For ASTM 120, Deduct  | -388.49                   |                         |
| For Work In Restricted Working Space, Add   | 65.58                     |                         |
| 22 11 16 00-0108 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 3,053.95                  | 166.63                  |
| For 300 LB Rating, Add  | 9,549.00                  |                         |
| For ASTM 120, Deduct  | -420.62                   |                         |
| For Work In Restricted Working Space, Add   | 74.95                     |                         |
| 22 11 16 00-0109 EA 8", 150 LB, Galvanized Malleable Iron Reducing Tee.....       | 3,668.36                  | 191.35                  |
| For 300 LB Rating, Add  | 11,512.81                 |                         |
| For ASTM 120, Deduct  | -507.16                   |                         |
| For Work In Restricted Working Space, Add   | 86.19                     |                         |
| <b>22 11 16 00-0110 Galvanized Malleable Iron Couplings</b> (22 11 16 00-0013)    |                           |                         |
| 22 11 16 00-0111 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling.....         | 43.89                     | 25.10                   |
| For 300 LB Rating, Add  | 23.64                     |                         |
| For ASTM 120, Deduct  | -0.94                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0112 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling.....         | 49.33                     | 28.06                   |
| For 300 LB Rating, Add  | 27.17                     |                         |
| For ASTM 120, Deduct  | -1.09                     |                         |
| For Work In Restricted Working Space, Add   | 12.62                     |                         |
| 22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling.....           | 58.87                     | 31.29                   |
| For 300 LB Rating, Add  | 43.21                     |                         |
| For ASTM 120, Deduct  | -1.78                     |                         |
| For Work In Restricted Working Space, Add   | 14.10                     |                         |
| 22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....       | 69.96                     | 35.53                   |
| For 300 LB Rating, Add  | 60.14                     |                         |
| For ASTM 120, Deduct  | -2.51                     |                         |
| For Work In Restricted Working Space, Add   | 15.96                     |                         |
| 22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....       | 79.03                     | 40.04                   |
| For 300 LB Rating, Add  | 68.34                     |                         |
| For ASTM 120, Deduct  | -2.86                     |                         |
| For Work In Restricted Working Space, Add   | 18.00                     |                         |



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|---|------------------------|----------------------|
| 22 11 16 00-0116  | EA  |     | 2", 150 LB, Galvanized Malleable Iron Coupling.....               | 104.04                 | 50.89                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 99.23                  |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -4.18                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 22.86                  |                      |
| 22 11 16 00-0117  | EA  |     | 2-1/2", 150 LB, Galvanized Malleable Iron Coupling .....          | 198.01                 | 75.29                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 296.52                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -12.78                 |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 33.84                  |                      |
| 22 11 16 00-0118  | EA  |     | 3", 150 LB, Galvanized Malleable Iron Coupling.....               | 262.30                 | 98.97                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 396.16                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -17.09                 |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 44.52                  |                      |
| 22 11 16 00-0119  | EA  |     | 4", 150 LB, Galvanized Malleable Iron Coupling.....               | 387.63                 | 97.18                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 831.20                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -36.29                 |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 43.72                  |                      |
| 22 11 16 00-0120  | EA  |     | 5", 150 LB, Galvanized Malleable Iron Coupling.....               | 833.21                 | 101.43               |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 2,325.00               |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -102.17                |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 45.62                  |                      |
| 22 11 16 00-0121  | EA  |     | 6", 150 LB, Galvanized Malleable Iron Coupling.....               | 934.98                 | 106.05               |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 2,647.94               |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -116.40                |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 47.69                  |                      |
| 22 11 16 00-0122  | EA  |     | 8", 150 LB, Galvanized Malleable Iron Coupling.....               | 1,101.38               | 110.82               |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 3,189.78               |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -140.29                |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 49.84                  |                      |
| <b>22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)</b> |     |     |   |                        |                      |
| 22 11 16 00-0124  | EA  |     | 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....    | 45.23                  | 25.10                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 28.20                  |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -1.14                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 11.28                  |                      |
| 22 11 16 00-0125  | EA  |     | 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....    | 50.24                  | 28.06                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 30.27                  |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -1.22                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 12.62                  |                      |
| 22 11 16 00-0126  | EA  |     | 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 60.59                  | 31.29                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 49.06                  |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -2.04                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 14.10                  |                      |
| 22 11 16 00-0127  | EA  |     | 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling ..... | 70.79                  | 35.53                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 62.96                  |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -2.64                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 15.96                  |                      |
| 22 11 16 00-0128  | EA  |     | 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling ..... | 82.66                  | 40.04                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 80.68                  |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -3.40                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 18.00                  |                      |
| 22 11 16 00-0129  | EA  |     | 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 107.13                 | 50.89                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 109.73                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -4.64                  |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 22.86                  |                      |
| 22 11 16 00-0130  | EA  |     | 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling ..... | 199.09                 | 75.29                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 300.19                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -12.95                 |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 33.84                  |                      |
| 22 11 16 00-0131  | EA  |     | 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 259.07                 | 98.97                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 385.18                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -16.60                 |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 44.52                  |                      |
| 22 11 16 00-0132  | EA  |     | 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 393.86                 | 97.18                |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 852.39                 |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -37.22                 |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 43.72                  |                      |
| 22 11 16 00-0133  | EA  |     | 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 869.06                 | 101.43               |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 2,446.89               |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -107.55                |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 45.62                  |                      |
| 22 11 16 00-0134  | EA  |     | 6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 975.82                 | 106.05               |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 2,786.79               |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -122.53                |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 47.69                  |                      |
| 22 11 16 00-0135  | EA  |     | 8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....      | 1,150.97               | 110.82               |
|   |     |     | <i>For 300 LB Rating, Add</i>                                     | 3,358.39               |                      |
|   |     |     | <i>For ASTM 120, Deduct</i>                                       | -147.72                |                      |
|   |     |     | <i>For Work In Restricted Working Space, Add</i>                  | 49.84                  |                      |
| <b>22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)</b>               |     |     |   |                        |                      |

|              |                                    |
|--------------|------------------------------------|
| <b>22</b>    | <b>Plumbing</b>                    |
| <b>22 10</b> | <b>Plumbing Piping</b>             |
| <b>22 11</b> | <b>Facility Water Distribution</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0137 EA 1/2", 150 LB, Galvanized Malleable Iron Cap .....                     | 19.79                     | 11.70                   |
| For 300 LB Rating, Add  | 8.44                      |                         |
| For ASTM 120, Deduct  | -0.33                     |                         |
| For Work In Restricted Working Space, Add   | 5.29                      |                         |
| 22 11 16 00-0138 EA 3/4", 150 LB, Galvanized Malleable Iron Cap .....                     | 21.79                     | 12.55                   |
| For 300 LB Rating, Add  | 11.33                     |                         |
| For ASTM 120, Deduct  | -0.45                     |                         |
| For Work In Restricted Working Space, Add   | 5.64                      |                         |
| 22 11 16 00-0139 EA 1", 150 LB, Galvanized Malleable Iron Cap .....                       | 25.41                     | 14.52                   |
| For 300 LB Rating, Add  | 13.95                     |                         |
| For ASTM 120, Deduct  | -0.56                     |                         |
| For Work In Restricted Working Space, Add   | 6.51                      |                         |
| 22 11 16 00-0140 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap .....                   | 27.63                     | 15.22                   |
| For 300 LB Rating, Add  | 17.99                     |                         |
| For ASTM 120, Deduct  | -0.73                     |                         |
| For Work In Restricted Working Space, Add   | 6.82                      |                         |
| 22 11 16 00-0141 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap .....                   | 27.32                     | 15.22                   |
| For 300 LB Rating, Add  | 16.94                     |                         |
| For ASTM 120, Deduct  | -0.69                     |                         |
| For Work In Restricted Working Space, Add   | 6.82                      |                         |
| 22 11 16 00-0142 EA 2", 150 LB, Galvanized Malleable Iron Cap .....                       | 40.13                     | 20.16                   |
| For 300 LB Rating, Add  | 35.17                     |                         |
| For ASTM 120, Deduct  | -1.47                     |                         |
| For Work In Restricted Working Space, Add   | 9.10                      |                         |
| 22 11 16 00-0143 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap .....                   | 59.61                     | 25.10                   |
| For 300 LB Rating, Add  | 77.09                     |                         |
| For ASTM 120, Deduct  | -3.30                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0144 EA 3", 150 LB, Galvanized Malleable Iron Cap .....                       | 76.82                     | 30.31                   |
| For 300 LB Rating, Add  | 109.28                    |                         |
| For ASTM 120, Deduct  | -4.70                     |                         |
| For Work In Restricted Working Space, Add   | 13.64                     |                         |
| 22 11 16 00-0145 EA 4", 150 LB, Galvanized Malleable Iron Cap .....                       | 108.56                    | 33.35                   |
| For 300 LB Rating, Add  | 202.20                    |                         |
| For ASTM 120, Deduct  | -8.79                     |                         |
| For Work In Restricted Working Space, Add   | 14.99                     |                         |
| 22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap .....                       | 256.96                    | 41.72                   |
| For 300 LB Rating, Add  | 665.05                    |                         |
| For ASTM 120, Deduct  | -29.18                    |                         |
| For Work In Restricted Working Space, Add   | 18.74                     |                         |
| 22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap .....                       | 319.56                    | 49.59                   |
| For 300 LB Rating, Add  | 837.94                    |                         |
| For ASTM 120, Deduct  | -36.77                    |                         |
| For Work In Restricted Working Space, Add   | 22.33                     |                         |
| 22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap .....                       | 400.76                    | 55.41                   |
| For 300 LB Rating, Add  | 1,085.13                  |                         |
| For ASTM 120, Deduct  | -47.65                    |                         |
| For Work In Restricted Working Space, Add   | 24.92                     |                         |
| <b>22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)</b> |                           |                         |
| 22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union .....                   | 77.68                     | 31.29                   |
| For Work In Restricted Working Space, Add   | 14.10                     |                         |
| 22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union .....                   | 89.49                     | 36.23                   |
| For Work In Restricted Working Space, Add   | 16.27                     |                         |
| 22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union .....                     | 110.27                    | 42.72                   |
| For Work In Restricted Working Space, Add   | 19.23                     |                         |
| 22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union .....                 | 142.96                    | 50.89                   |
| For Work In Restricted Working Space, Add   | 22.86                     |                         |
| 22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union .....                 | 171.84                    | 60.63                   |
| For Work In Restricted Working Space, Add   | 27.29                     |                         |
| 22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union .....                     | 205.78                    | 75.29                   |
| For Work In Restricted Working Space, Add   | 33.84                     |                         |
| 22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union .....                 | 489.52                    | 110.96                  |
| For Work In Restricted Working Space, Add   | 49.95                     |                         |
| 22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union .....                     | 671.17                    | 145.92                  |
| For Work In Restricted Working Space, Add   | 65.72                     |                         |
| 22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union .....                   | 109.39                    | 31.29                   |
| For Work In Restricted Working Space, Add   | 14.10                     |                         |
| 22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union .....                   | 110.92                    | 36.23                   |
| For Work In Restricted Working Space, Add   | 16.27                     |                         |
| 22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union .....                     | 134.37                    | 42.72                   |
| For Work In Restricted Working Space, Add   | 19.22                     |                         |
| 22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union .....                 | 182.65                    | 50.89                   |
| For Work In Restricted Working Space, Add   | 22.86                     |                         |
| 22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union .....                 | 213.51                    | 60.63                   |
| For Work In Restricted Working Space, Add   | 27.29                     |                         |
| 22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union .....                     | 285.86                    | 75.29                   |
| For Work In Restricted Working Space, Add   | 33.84                     |                         |
| 22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union .....                 | 621.77                    | 110.96                  |
| For Work In Restricted Working Space, Add   | 49.95                     |                         |
| 22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union .....                     | 917.59                    | 145.92                  |
| For Work In Restricted Working Space, Add   | 65.72                     |                         |
| 22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union .....                     | 1,310.86                  | 143.41                  |
| For Work In Restricted Working Space, Add   | 64.54                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST        | DEMOLITION<br>UNIT COST |
|---|----------------------------------|-------------------------|
| 22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 118.09<br>14.10                  | 31.29                   |
| 22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 131.32<br>16.27                  | 36.23                   |
| 22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 166.36<br>19.22                  | 42.72                   |
| 22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 218.82<br>22.86                  | 50.89                   |
| 22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 262.69<br>27.29                  | 60.63                   |
| 22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 318.91<br>33.84                  | 75.29                   |
| 22 11 16 00-0173 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 741.46<br>49.95                  | 110.96                  |
| 22 11 16 00-0174 EA 3", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,191.48<br>65.72                | 145.92                  |
| 22 11 16 00-0175 EA 4", 300 LB, Galvanized Malleable Iron Union .....<br><i>For Work In Restricted Working Space, Add</i>   | 2,653.95<br>64.54                | 143.41                  |
| <br>  |                                  |                         |
| <b>22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)</b>   |                                  |                         |
| <i>Note: ASTM A-53.</i>   |                                  |                         |
| 22 11 16 00-0177 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>       | 22.70<br>2.92<br>-0.38<br>6.04   | 13.39                   |
| 22 11 16 00-0178 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>       | 22.21<br>2.36<br>-0.31<br>6.04   | 13.39                   |
| 22 11 16 00-0179 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>       | 22.65<br>2.86<br>-0.38<br>6.04   | 13.39                   |
| 22 11 16 00-0180 EA 1" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>         | 25.14<br>3.93<br>-0.52<br>6.51   | 14.52                   |
| 22 11 16 00-0181 EA 1-1/4" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 28.12<br>5.27<br>-0.69<br>7.05   | 15.65                   |
| 22 11 16 00-0182 EA 1-1/2" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 28.93<br>6.19<br>-0.81<br>7.05   | 15.65                   |
| 22 11 16 00-0183 EA 2" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>         | 37.97<br>8.72<br>-1.15<br>9.10   | 20.16                   |
| 22 11 16 00-0184 EA 2-1/2" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 60.37<br>25.96<br>-3.42<br>11.28 | 25.10                   |
| 22 11 16 00-0185 EA 3" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>         | 72.76<br>31.10<br>-4.09<br>13.64 | 30.31                   |
| 22 11 16 00-0186 EA 4" x Close, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>         | 90.86<br>46.61<br>-6.13<br>14.99 | 33.35                   |
| 22 11 16 00-0187 EA 3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 23.08<br>3.35<br>-0.44<br>6.04   | 13.39                   |
| 22 11 16 00-0188 EA 1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 22.32<br>2.49<br>-0.33<br>6.04   | 13.39                   |
| 22 11 16 00-0189 EA 3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 22.87<br>3.11<br>-0.41<br>6.04   | 13.39                   |
| 22 11 16 00-0190 EA 3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 23.08<br>3.35<br>-0.44<br>6.04   | 13.39                   |
| 22 11 16 00-0191 EA 1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 22.32<br>2.49<br>-0.33<br>6.04   | 13.39                   |
| 22 11 16 00-0192 EA 3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 22.87<br>3.11<br>-0.41<br>6.04   | 13.39                   |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0193 EA 1" x 2" Long, Schedule 40 Galvanized Steel Nipple .....         | 25.76                     | 14.52                   |
| For Schedule 80 Nipples, Add  | 4.64                      |                         |
| For ASTM 120, Deduct  | -0.61                     |                         |
| For Work In Restricted Working Space, Add   | 6.51                      |                         |
| 22 11 16 00-0194 EA 1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple .....     | 28.46                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 5.65                      |                         |
| For ASTM 120, Deduct  | -0.74                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0195 EA 1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple .....     | 29.33                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 6.65                      |                         |
| For ASTM 120, Deduct  | -0.87                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0196 EA 3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 24.05                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 4.46                      |                         |
| For ASTM 120, Deduct  | -0.59                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0197 EA 1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 22.70                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 2.92                      |                         |
| For ASTM 120, Deduct  | -0.38                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0198 EA 3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 23.16                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 3.44                      |                         |
| For ASTM 120, Deduct  | -0.45                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0199 EA 1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 26.09                     | 14.52                   |
| For Schedule 80 Nipples, Add  | 5.02                      |                         |
| For ASTM 120, Deduct  | -0.66                     |                         |
| For Work In Restricted Working Space, Add   | 6.51                      |                         |
| 22 11 16 00-0200 EA 1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 28.95                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 6.21                      |                         |
| For ASTM 120, Deduct  | -0.82                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0201 EA 1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 29.99                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 7.40                      |                         |
| For ASTM 120, Deduct  | -0.97                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0202 EA 2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 38.92                     | 20.16                   |
| For Schedule 80 Nipples, Add  | 9.80                      |                         |
| For ASTM 120, Deduct  | -1.29                     |                         |
| For Work In Restricted Working Space, Add   | 9.10                      |                         |
| 22 11 16 00-0203 EA 3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple .....       | 24.05                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 4.46                      |                         |
| For ASTM 120, Deduct  | -0.59                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0204 EA 1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....       | 22.70                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 2.92                      |                         |
| For ASTM 120, Deduct  | -0.38                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0205 EA 3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple .....       | 23.16                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 3.44                      |                         |
| For ASTM 120, Deduct  | -0.45                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0206 EA 1" x 3" Long, Schedule 40 Galvanized Steel Nipple .....         | 26.09                     | 14.52                   |
| For Schedule 80 Nipples, Add  | 5.02                      |                         |
| For ASTM 120, Deduct  | -0.66                     |                         |
| For Work In Restricted Working Space, Add   | 6.51                      |                         |
| 22 11 16 00-0207 EA 1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple .....     | 28.95                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 6.21                      |                         |
| For ASTM 120, Deduct  | -0.82                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0208 EA 1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....     | 29.99                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 7.40                      |                         |
| For ASTM 120, Deduct  | -0.97                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0209 EA 2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....         | 38.92                     | 20.16                   |
| For Schedule 80 Nipples, Add  | 9.80                      |                         |
| For ASTM 120, Deduct  | -1.29                     |                         |
| For Work In Restricted Working Space, Add   | 9.10                      |                         |
| 22 11 16 00-0210 EA 2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....     | 61.24                     | 25.10                   |
| For Schedule 80 Nipples, Add  | 26.95                     |                         |
| For ASTM 120, Deduct  | -3.55                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0211 EA 3" x 3" Long, Schedule 40 Galvanized Steel Nipple .....         | 76.52                     | 30.31                   |
| For Schedule 80 Nipples, Add  | 35.39                     |                         |
| For ASTM 120, Deduct  | -4.66                     |                         |
| For Work In Restricted Working Space, Add   | 13.64                     |                         |
| 22 11 16 00-0212 EA 3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 24.79                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 5.30                      |                         |
| For ASTM 120, Deduct  | -0.70                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0213 EA 1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 23.30                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 3.60                      |                         |
| For ASTM 120, Deduct  | -0.47                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 22 11 16 00-0214 | EA  |     | 3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 24.05                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 4.46                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.59                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0215 | EA  |     | 1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 26.98                  | 14.52                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 6.03                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.79                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.51                   |                      |
| 22 11 16 00-0216 | EA  |     | 1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 29.99                  | 15.65                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 7.40                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.97                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 7.05                   |                      |
| 22 11 16 00-0217 | EA  |     | 1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 31.70                  | 15.65                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 9.35                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -1.23                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 7.05                   |                      |
| 22 11 16 00-0218 | EA  |     | 2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 40.77                  | 20.16                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 11.91                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -1.57                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 9.10                   |                      |
| 22 11 16 00-0219 | EA  |     | 2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 65.04                  | 25.10                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 31.28                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -4.12                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 11.28                  |                      |
| 22 11 16 00-0220 | EA  |     | 3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 81.90                  | 30.31                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 41.52                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -5.46                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 13.64                  |                      |
| 22 11 16 00-0221 | EA  |     | 3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple .....       | 24.79                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 5.30                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.70                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0222 | EA  |     | 1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple .....       | 23.30                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 3.60                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.47                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0223 | EA  |     | 3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple .....       | 24.79                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 5.30                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.70                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0224 | EA  |     | 1" x 4" Long, Schedule 40 Galvanized Steel Nipple .....         | 26.98                  | 14.52                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 6.03                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.79                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.51                   |                      |
| 22 11 16 00-0225 | EA  |     | 1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple .....     | 29.99                  | 15.65                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 7.40                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.97                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 7.05                   |                      |
| 22 11 16 00-0226 | EA  |     | 1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple .....     | 31.70                  | 15.65                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 9.35                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -1.23                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 7.05                   |                      |
| 22 11 16 00-0227 | EA  |     | 2" x 4" Long, Schedule 40 Galvanized Steel Nipple .....         | 40.86                  | 20.16                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 12.02                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -1.58                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 9.10                   |                      |
| 22 11 16 00-0228 | EA  |     | 2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple .....     | 65.04                  | 25.10                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 31.28                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -4.12                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 11.28                  |                      |
| 22 11 16 00-0229 | EA  |     | 3" x 4" Long, Schedule 40 Galvanized Steel Nipple .....         | 81.90                  | 30.31                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 41.52                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -5.46                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 13.64                  |                      |
| 22 11 16 00-0230 | EA  |     | 4" x 4" Long, Schedule 40 Galvanized Steel Nipple .....         | 98.86                  | 33.35                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 55.73                  |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -7.33                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 14.99                  |                      |
| 22 11 16 00-0231 | EA  |     | 3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 26.54                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 7.30                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.96                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0232 | EA  |     | 1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 23.94                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 4.33                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.57                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0233 | EA  |     | 3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....   | 24.81                  | 13.39                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 5.32                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.70                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.04                   |                      |
| 22 11 16 00-0234 | EA  |     | 1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 28.18                  | 14.52                |
|                  |     |     | <i>For Schedule 80 Nipples, Add</i>                             | 7.40                   |                      |
|                  |     |     | <i>For ASTM 120, Deduct</i>                                     | -0.97                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                | 6.51                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0235 EA 1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 31.53                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 9.15                      |                         |
| For ASTM 120, Deduct  | -1.20                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0236 EA 1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 33.42                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 11.31                     |                         |
| For ASTM 120, Deduct  | -1.49                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0237 EA 2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 43.66                     | 20.16                   |
| For Schedule 80 Nipples, Add  | 15.21                     |                         |
| For ASTM 120, Deduct  | -2.00                     |                         |
| For Work In Restricted Working Space, Add   | 9.10                      |                         |
| 22 11 16 00-0238 EA 2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... | 68.20                     | 25.10                   |
| For Schedule 80 Nipples, Add  | 34.88                     |                         |
| For ASTM 120, Deduct  | -4.59                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0239 EA 3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 87.93                     | 30.31                   |
| For Schedule 80 Nipples, Add  | 48.39                     |                         |
| For ASTM 120, Deduct  | -6.37                     |                         |
| For Work In Restricted Working Space, Add   | 13.64                     |                         |
| 22 11 16 00-0240 EA 4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....     | 104.80                    | 33.35                   |
| For Schedule 80 Nipples, Add  | 62.51                     |                         |
| For ASTM 120, Deduct  | -8.22                     |                         |
| For Work In Restricted Working Space, Add   | 14.99                     |                         |
| 22 11 16 00-0241 EA 3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple .....       | 26.54                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 7.30                      |                         |
| For ASTM 120, Deduct  | -0.96                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0242 EA 1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple .....       | 23.94                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 4.33                      |                         |
| For ASTM 120, Deduct  | -0.57                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0243 EA 3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple .....       | 24.81                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 5.32                      |                         |
| For ASTM 120, Deduct  | -0.70                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0244 EA 1" x 5" Long, Schedule 40 Galvanized Steel Nipple .....         | 28.18                     | 14.52                   |
| For Schedule 80 Nipples, Add  | 7.40                      |                         |
| For ASTM 120, Deduct  | -0.97                     |                         |
| For Work In Restricted Working Space, Add   | 6.51                      |                         |
| 22 11 16 00-0245 EA 1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple .....     | 31.53                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 9.15                      |                         |
| For ASTM 120, Deduct  | -1.20                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0246 EA 1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple .....     | 33.42                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 11.31                     |                         |
| For ASTM 120, Deduct  | -1.49                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 22 11 16 00-0247 EA 2" x 5" Long, Schedule 40 Galvanized Steel Nipple .....         | 43.66                     | 20.16                   |
| For Schedule 80 Nipples, Add  | 15.21                     |                         |
| For ASTM 120, Deduct  | -2.00                     |                         |
| For Work In Restricted Working Space, Add   | 9.10                      |                         |
| 22 11 16 00-0248 EA 2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple .....     | 68.20                     | 25.10                   |
| For Schedule 80 Nipples, Add  | 34.88                     |                         |
| For ASTM 120, Deduct  | -4.59                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 22 11 16 00-0249 EA 3" x 5" Long, Schedule 40 Galvanized Steel Nipple .....         | 87.93                     | 30.31                   |
| For Schedule 80 Nipples, Add  | 48.39                     |                         |
| For ASTM 120, Deduct  | -6.37                     |                         |
| For Work In Restricted Working Space, Add   | 13.64                     |                         |
| 22 11 16 00-0250 EA 4" x 5" Long, Schedule 40 Galvanized Steel Nipple .....         | 104.80                    | 33.35                   |
| For Schedule 80 Nipples, Add  | 62.51                     |                         |
| For ASTM 120, Deduct  | -8.22                     |                         |
| For Work In Restricted Working Space, Add   | 14.99                     |                         |
| 22 11 16 00-0251 EA 3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple .....       | 27.26                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 8.12                      |                         |
| For ASTM 120, Deduct  | -1.07                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0252 EA 1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple .....       | 24.45                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 4.91                      |                         |
| For ASTM 120, Deduct  | -0.65                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0253 EA 3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple .....       | 25.74                     | 13.39                   |
| For Schedule 80 Nipples, Add  | 6.38                      |                         |
| For ASTM 120, Deduct  | -0.84                     |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 11 16 00-0254 EA 1" x 6" Long, Schedule 40 Galvanized Steel Nipple .....         | 29.05                     | 14.52                   |
| For Schedule 80 Nipples, Add  | 8.39                      |                         |
| For ASTM 120, Deduct  | -1.10                     |                         |
| For Work In Restricted Working Space, Add   | 6.51                      |                         |
| 22 11 16 00-0255 EA 1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple .....     | 32.82                     | 15.65                   |
| For Schedule 80 Nipples, Add  | 10.62                     |                         |
| For ASTM 120, Deduct  | -1.40                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |



|  |  |
|--|--|
|  | <b>Plumbing 22</b>                       |
|  | <b>Plumbing Piping 22 10</b>             |
|  | <b>Facility Water Distribution 22 11</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST          | DEMOLITION<br>UNIT COST |
|--|------------------------------------|-------------------------|
| 22 11 16 00-0256 EA 1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 34.66<br>12.72<br>-1.67<br>7.05    | 15.65                   |
| 22 11 16 00-0257 EA 2" x 6" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 45.82<br>17.67<br>-2.33<br>9.10    | 20.16                   |
| 22 11 16 00-0258 EA 2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 71.22<br>38.33<br>-5.04<br>11.28   | 25.10                   |
| 22 11 16 00-0259 EA 3" x 6" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 90.37<br>51.17<br>-6.73<br>13.64   | 30.31                   |
| 22 11 16 00-0260 EA 4" x 6" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 110.58<br>69.10<br>-9.09<br>14.99  | 33.35                   |
| 22 11 16 00-0261 EA 3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>    | 48.58<br>32.42<br>-4.27<br>6.04    | 13.39                   |
| 22 11 16 00-0262 EA 1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>    | 27.74<br>8.66<br>-1.14<br>6.04     | 13.39                   |
| 22 11 16 00-0263 EA 3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>    | 29.86<br>11.08<br>-1.46<br>6.04    | 13.39                   |
| 22 11 16 00-0264 EA 1" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 34.01<br>14.04<br>-1.85<br>6.51    | 14.52                   |
| 22 11 16 00-0265 EA 1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 38.60<br>17.21<br>-2.27<br>7.05    | 15.65                   |
| 22 11 16 00-0266 EA 1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 40.82<br>19.74<br>-2.60<br>7.05    | 15.65                   |
| 22 11 16 00-0267 EA 2" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 55.58<br>28.80<br>-3.79<br>9.10    | 20.16                   |
| 22 11 16 00-0268 EA 2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 80.87<br>49.33<br>-6.49<br>11.28   | 25.10                   |
| 22 11 16 00-0269 EA 3" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 105.96<br>68.95<br>-9.07<br>13.64  | 30.31                   |
| 22 11 16 00-0270 EA 4" x 8" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>      | 122.30<br>82.46<br>-10.85<br>14.99 | 33.35                   |
| 22 11 16 00-0271 EA 3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 33.70<br>15.46<br>-2.03<br>6.04    | 13.39                   |
| 22 11 16 00-0272 EA 1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 29.17<br>10.29<br>-1.35<br>6.04    | 13.39                   |
| 22 11 16 00-0273 EA 3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 30.92<br>12.29<br>-1.62<br>6.04    | 13.39                   |
| 22 11 16 00-0274 EA 1" x 10" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 35.76<br>16.04<br>-2.11<br>6.51    | 14.52                   |
| 22 11 16 00-0275 EA 1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 41.55<br>20.58<br>-2.71<br>7.05    | 15.65                   |
| 22 11 16 00-0276 EA 1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple .....<br><i>For Schedule 80 Nipples, Add</i><br><i>For ASTM 120, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 43.69<br>23.02<br>-3.03<br>7.05    | 15.65                   |

|              |                                    |
|--------------|------------------------------------|
| <b>22</b>    | <b>Plumbing</b>                    |
| <b>22 10</b> | <b>Plumbing Piping</b>             |
| <b>22 11</b> | <b>Facility Water Distribution</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 16 00-0277 EA 2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....            | 59.87                     | 20.16                   |
| For Schedule 80 Nipples, Add   | 33.69                     |                         |
| For ASTM 120, Deduct   | -4.43                     |                         |
| For Work In Restricted Working Space, Add  | 9.10                      |                         |
| 22 11 16 00-0278 EA 2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple .....       | 86.92                     | 25.10                   |
| For Schedule 80 Nipples, Add   | 56.22                     |                         |
| For ASTM 120, Deduct   | -7.40                     |                         |
| For Work In Restricted Working Space, Add  | 11.28                     |                         |
| 22 11 16 00-0279 EA 3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....            | 114.47                    | 30.31                   |
| For Schedule 80 Nipples, Add   | 78.65                     |                         |
| For ASTM 120, Deduct   | -10.35                    |                         |
| For Work In Restricted Working Space, Add  | 13.64                     |                         |
| 22 11 16 00-0280 EA 4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....            | 133.80                    | 33.35                   |
| For Schedule 80 Nipples, Add   | 95.57                     |                         |
| For ASTM 120, Deduct   | -12.57                    |                         |
| For Work In Restricted Working Space, Add  | 14.99                     |                         |
| 22 11 16 00-0281 EA 3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....          | 35.17                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 17.13                     |                         |
| For ASTM 120, Deduct   | -2.25                     |                         |
| For Work In Restricted Working Space, Add  | 6.04                      |                         |
| 22 11 16 00-0282 EA 1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....          | 30.41                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 11.71                     |                         |
| For ASTM 120, Deduct   | -1.54                     |                         |
| For Work In Restricted Working Space, Add  | 6.04                      |                         |
| 22 11 16 00-0283 EA 3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....          | 32.24                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 13.79                     |                         |
| For ASTM 120, Deduct   | -1.82                     |                         |
| For Work In Restricted Working Space, Add  | 6.04                      |                         |
| 22 11 16 00-0284 EA 1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....            | 38.08                     | 14.52                   |
| For Schedule 80 Nipples, Add   | 18.68                     |                         |
| For ASTM 120, Deduct   | -2.46                     |                         |
| For Work In Restricted Working Space, Add  | 6.51                      |                         |
| 22 11 16 00-0285 EA 1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple .....       | 45.18                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 24.72                     |                         |
| For ASTM 120, Deduct   | -3.25                     |                         |
| For Work In Restricted Working Space, Add  | 7.05                      |                         |
| 22 11 16 00-0286 EA 1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple .....       | 46.60                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 26.33                     |                         |
| For ASTM 120, Deduct   | -3.47                     |                         |
| For Work In Restricted Working Space, Add  | 7.05                      |                         |
| 22 11 16 00-0287 EA 2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....            | 64.23                     | 20.16                   |
| For Schedule 80 Nipples, Add   | 38.66                     |                         |
| For ASTM 120, Deduct   | -5.09                     |                         |
| For Work In Restricted Working Space, Add  | 9.10                      |                         |
| 22 11 16 00-0288 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple .....       | 92.79                     | 25.10                   |
| For Schedule 80 Nipples, Add   | 62.92                     |                         |
| For ASTM 120, Deduct   | -8.28                     |                         |
| For Work In Restricted Working Space, Add  | 11.28                     |                         |
| 22 11 16 00-0289 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....            | 123.06                    | 30.31                   |
| For Schedule 80 Nipples, Add   | 88.44                     |                         |
| For ASTM 120, Deduct   | -11.64                    |                         |
| For Work In Restricted Working Space, Add  | 13.64                     |                         |
| 22 11 16 00-0290 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....            | 145.40                    | 33.35                   |
| For Schedule 80 Nipples, Add   | 108.79                    |                         |
| For ASTM 120, Deduct   | -14.31                    |                         |
| For Work In Restricted Working Space, Add  | 14.99                     |                         |
| <b>22 11 16 00-0291 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)</b> |                           |                         |
| 22 11 16 00-0292 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....      | 21.91                     | 10.01                   |
| For 300 LB Rating, Add   | 24.26                     |                         |
| For Work In Restricted Working Space, Add  | 4.51                      |                         |
| 22 11 16 00-0293 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....      | 23.70                     | 11.28                   |
| For 300 LB Rating, Add   | 24.37                     |                         |
| For Work In Restricted Working Space, Add  | 5.05                      |                         |
| 22 11 16 00-0294 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug.....        | 26.33                     | 12.55                   |
| For 300 LB Rating, Add   | 26.76                     |                         |
| For Work In Restricted Working Space, Add  | 5.64                      |                         |
| 22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....    | 32.87                     | 14.24                   |
| For 300 LB Rating, Add   | 40.68                     |                         |
| For Work In Restricted Working Space, Add  | 6.38                      |                         |
| 22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....    | 39.60                     | 15.93                   |
| For 300 LB Rating, Add   | 54.51                     |                         |
| For Work In Restricted Working Space, Add  | 7.20                      |                         |
| 22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug.....        | 50.33                     | 20.30                   |
| For 300 LB Rating, Add   | 69.32                     |                         |
| For Work In Restricted Working Space, Add  | 9.14                      |                         |
| 22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....    | 83.83                     | 30.03                   |
| For 300 LB Rating, Add   | 134.35                    |                         |
| For Work In Restricted Working Space, Add  | 13.53                     |                         |
| 22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug.....        | 114.31                    | 39.62                   |
| For 300 LB Rating, Add   | 190.36                    |                         |
| For Work In Restricted Working Space, Add  | 17.81                     |                         |
| 22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug.....        | 172.35                    | 38.85                   |
| For 300 LB Rating, Add   | 391.30                    |                         |
| For Work In Restricted Working Space, Add  | 17.49                     |                         |



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST    | DEMOLITION UNIT COST |
|--|-----|-----|--|---------------------------|----------------------|
| 22 11 16 00-0301   | EA  |     | 5", 150 LB, Galvanized Malleable Iron Square Head Plug.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 270.10<br>715.17<br>18.25 | 40.59                |
| 22 11 16 00-0302   | EA  |     | 6", 150 LB, Galvanized Malleable Iron Square Head Plug.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 289.83<br>773.00<br>19.08 | 42.35                |
| <b>22 11 16 00-0303</b>  |     |     | <b>Galvanized Malleable Iron Bushing</b> <small>(22 11 16 00-0013)</small>   |                           |                      |
| 22 11 16 00-0304   | EA  |     | 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 57.28<br>11.95            | 26.51                |
| 22 11 16 00-0305   | EA  |     | 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 63.17<br>12.69            | 28.20                |
| 22 11 16 00-0306   | EA  |     | 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 64.31<br>13.36            | 29.74                |
| 22 11 16 00-0307   | EA  |     | 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                | 74.62<br>13.62            | 30.31                |
| 22 11 16 00-0308   | EA  |     | 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                | 74.21<br>14.29            | 31.72                |
| 22 11 16 00-0309   | EA  |     | 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 76.67<br>15.03            | 33.42                |
| 22 11 16 00-0310   | EA  |     | 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                | 87.41<br>14.64            | 32.57                |
| 22 11 16 00-0311   | EA  |     | 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                | 89.65<br>15.31            | 33.98                |
| 22 11 16 00-0312   | EA  |     | 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 88.32<br>16.05            | 35.67                |
| 22 11 16 00-0313   | EA  |     | 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                              | 88.73<br>16.98            | 37.78                |
| 22 11 16 00-0314   | EA  |     | 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 105.14<br>17.07           | 37.92                |
| 22 11 16 00-0315   | EA  |     | 2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 104.03<br>17.74           | 39.48                |
| 22 11 16 00-0316   | EA  |     | 2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 104.03<br>18.48           | 41.03                |
| 22 11 16 00-0317   | EA  |     | 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 107.14<br>19.41           | 43.14                |
| 22 11 16 00-0318   | EA  |     | 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 105.32<br>20.43           | 45.39                |
| 22 11 16 00-0319   | EA  |     | 2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                | 147.24<br>23.23           | 51.60                |
| 22 11 16 00-0320   | EA  |     | 2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 149.69<br>23.97           | 53.30                |
| 22 11 16 00-0321   | EA  |     | 2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                              | 152.80<br>24.90           | 55.27                |
| 22 11 16 00-0322   | EA  |     | 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                              | 154.90<br>25.92           | 57.66                |
| 22 11 16 00-0323   | EA  |     | 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 155.21<br>28.35           | 63.02                |
| 22 11 16 00-0324   | EA  |     | 3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 187.39<br>28.58           | 63.44                |
| 22 11 16 00-0325   | EA  |     | 3" x 1", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 189.84<br>29.31           | 65.13                |
| 22 11 16 00-0326   | EA  |     | 3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 192.94<br>30.24           | 67.25                |
| 22 11 16 00-0327   | EA  |     | 3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 194.54<br>31.26           | 69.51                |
| 22 11 16 00-0328   | EA  |     | 3" x 2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 194.20<br>33.69           | 74.87                |
| 22 11 16 00-0329   | EA  |     | 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 217.25<br>39.18           | 87.12                |
| 22 11 16 00-0330   | EA  |     | 4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 284.64<br>27.46           | 60.96                |
| 22 11 16 00-0331   | EA  |     | 4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 286.80<br>28.10           | 62.46                |
| 22 11 16 00-0332   | EA  |     | 4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 289.55<br>28.93           | 64.33                |
| 22 11 16 00-0333   | EA  |     | 4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 292.56<br>29.83           | 66.33                |
| 22 11 16 00-0334   | EA  |     | 4" x 2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 277.00<br>31.99           | 71.08                |
| 22 11 16 00-0335   | EA  |     | 4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 315.95<br>36.85           | 81.94                |
| 22 11 16 00-0336   | EA  |     | 4" x 3", 150 LB, Galvanized Malleable Iron Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 318.96<br>41.58           | 92.43                |
| <b>22 11 16 00-0337</b>  |     |     | <b>Galvanized Malleable Iron Floor Flange</b> <small>(22 11 16 00-0013)</small>  |                           |                      |
| Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors. |     |     |  |                           |                      |
| 22 11 16 00-0338   | EA  |     | 1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....  | 84.64                     | 51.52                |
| 22 11 16 00-0339   | EA  |     | 3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....  | 92.56                     | 56.39                |
| 22 11 16 00-0340   | EA  |     | 1", 150 LB, Galvanized Malleable Iron Floor Flange.....  | 105.92                    | 63.72                |
| 22 11 16 00-0341   | EA  |     | 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....  | 110.00                    | 65.98                |
| 22 11 16 00-0342   | EA  |     | 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....  | 119.70                    | 71.76                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 16 00-0343 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange.....                                      | 128.07                    | 74.87                   |
| <b>22 11 16 00-0344 Galvanized Cast Iron Flanges</b> <small>(22 11 16 00-0013)</small>                           |                           |                         |
| Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.    |                           |                         |
| 22 11 16 00-0345 EA 3/4", 125 LB, Galvanized Cast Iron Flange.....   | 146.73                    | 56.39                   |
| For Work In Restricted Working Space, Add  | 25.38                     |                         |
| 22 11 16 00-0346 EA 1", 125 LB, Galvanized Cast Iron Flange.....   | 143.69                    | 63.72                   |
| For Work In Restricted Working Space, Add  | 28.67                     |                         |
| 22 11 16 00-0347 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange.....   | 124.36                    | 65.98                   |
| For Work In Restricted Working Space, Add  | 29.68                     |                         |
| 22 11 16 00-0348 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange.....   | 145.17                    | 71.76                   |
| For Work In Restricted Working Space, Add  | 32.29                     |                         |
| 22 11 16 00-0349 EA 2", 125 LB, Galvanized Cast Iron Flange.....   | 162.01                    | 74.87                   |
| For Work In Restricted Working Space, Add  | 33.69                     |                         |
| 22 11 16 00-0350 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange.....   | 188.05                    | 86.70                   |
| For Work In Restricted Working Space, Add  | 38.97                     |                         |
| 22 11 16 00-0351 EA 3", 125 LB, Galvanized Cast Iron Flange.....   | 321.86                    | 109.97                  |
| For Work In Restricted Working Space, Add  | 49.46                     |                         |
| 22 11 16 00-0352 EA 4", 125 LB, Galvanized Cast Iron Flange.....   | 413.66                    | 133.29                  |
| For Work In Restricted Working Space, Add  | 59.95                     |                         |
| 22 11 16 00-0353 EA 5", 125 LB, Galvanized Cast Iron Flange.....   | 573.60                    | 158.64                  |
| For Work In Restricted Working Space, Add  | 71.36                     |                         |
| 22 11 16 00-0354 EA 6", 125 LB, Galvanized Cast Iron Flange.....   | 632.09                    | 182.25                  |
| For Work In Restricted Working Space, Add  | 81.98                     |                         |
| 22 11 16 00-0355 EA 8", 125 LB, Galvanized Cast Iron Flange.....   | 592.84                    | 208.29                  |
| For Work In Restricted Working Space, Add  | 93.68                     |                         |
| <b>22 11 16 00-0356 Cut And Thread Existing In-Place Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small> |                           |                         |
| Note: For use when connecting pipe to an existing in-place system.   |                           |                         |
| 22 11 16 00-0357 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....                            | 45.94                     |                         |
| For Work In Restricted Working Space, Add  | 13.78                     |                         |
| 22 11 16 00-0358 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....                            | 50.53                     |                         |
| For Work In Restricted Working Space, Add  | 15.16                     |                         |
| 22 11 16 00-0359 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe.....                              | 55.13                     |                         |
| For Work In Restricted Working Space, Add  | 16.54                     |                         |
| 22 11 16 00-0360 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....                          | 59.72                     |                         |
| For Work In Restricted Working Space, Add  | 17.92                     |                         |
| 22 11 16 00-0361 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....                          | 62.79                     |                         |
| For Work In Restricted Working Space, Add  | 18.84                     |                         |
| 22 11 16 00-0362 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe.....                              | 65.84                     |                         |
| For Work In Restricted Working Space, Add  | 19.75                     |                         |
| 22 11 16 00-0363 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....                          | 68.91                     |                         |
| For Work In Restricted Working Space, Add  | 20.67                     |                         |
| 22 11 16 00-0364 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe.....                              | 71.97                     |                         |
| For Work In Restricted Working Space, Add  | 21.59                     |                         |
| 22 11 16 00-0365 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe.....                              | 75.03                     |                         |
| For Work In Restricted Working Space, Add  | 22.51                     |                         |
| 22 11 16 00-0366 EA 6", Cut And Thread Existing In Place Galvanized Steel Pipe.....                              | 81.16                     |                         |
| For Work In Restricted Working Space, Add  | 24.35                     |                         |
| 22 11 16 00-0367 EA 8", Cut And Thread Existing In Place Galvanized Steel Pipe.....                              | 87.28                     |                         |
| For Work In Restricted Working Space, Add  | 26.18                     |                         |
| <b>22 11 16 00-0368 Copper Pipe And Fittings</b> <small>(22 11 16)</small>                                       |                           |                         |
| Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.                        |                           |                         |
| <b>22 11 16 00-0369 Copper Tube/Pipe</b> <small>(22 11 16 00-0368)</small>                                       |                           |                         |
| Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).           |                           |                         |
| <b>22 11 16 00-0370 Hard Drawn Type L Copper Tube/Pipe</b> <small>(22 11 16 00-0369)</small>                     |                           |                         |
| 22 11 16 00-0371 LF 1/4" Hard Drawn Type L Copper Tube/Pipe.....   | 6.89                      | 3.45                    |
| For Medical/Oxygen Service Tubing, Add   | 0.14                      |                         |
| For Up To 20, Add  | 0.73                      |                         |
| For >150, Deduct   | -0.17                     |                         |
| For Work In Restricted Working Space, Add  | 1.55                      |                         |
| 22 11 16 00-0372 LF 3/8" Hard Drawn Type L Copper Tube/Pipe.....   | 7.91                      | 3.58                    |
| For Medical/Oxygen Service Tubing, Add   | 0.20                      |                         |
| For Up To 20, Add  | 0.85                      |                         |
| For >150, Deduct   | -0.25                     |                         |
| For Work In Restricted Working Space, Add  | 1.61                      |                         |
| 22 11 16 00-0373 LF 1/2" Hard Drawn Type L Copper Tube/Pipe.....   | 8.63                      | 3.74                    |
| For Medical/Oxygen Service Tubing, Add   | 0.24                      |                         |
| For Up To 20, Add  | 0.94                      |                         |
| For >150, Deduct   | -0.30                     |                         |
| For Work In Restricted Working Space, Add  | 1.68                      |                         |
| 22 11 16 00-0374 LF 3/4" Hard Drawn Type L Copper Tube/Pipe.....   | 10.86                     | 3.97                    |
| For Medical/Oxygen Service Tubing, Add   | 0.39                      |                         |
| For Up To 20, Add  | 1.21                      |                         |
| For >150, Deduct   | -0.49                     |                         |
| For Work In Restricted Working Space, Add  | 1.79                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 22 11 16 00-0375 LF 1" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 13.78<br>0.57<br>1.56<br>-0.71<br>2.00      | 4.45                    |
| 22 11 16 00-0376 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 19.72<br>0.78<br>2.22<br>-0.98<br>2.98      | 6.63                    |
| 22 11 16 00-0377 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 23.68<br>1.01<br>2.68<br>-1.26<br>3.33      | 7.40                    |
| 22 11 16 00-0378 LF 2" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 33.59<br>1.59<br>3.86<br>-1.99<br>4.10      | 9.13                    |
| 22 11 16 00-0379 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 61.00<br>2.30<br>6.82<br>-2.88<br>9.67      | 10.73                   |
| 22 11 16 00-0380 LF 3" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 76.28<br>3.07<br>8.59<br>-3.84<br>11.37     | 12.65                   |
| 22 11 16 00-0381 LF 4" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 111.18<br>5.47<br>12.83<br>-6.84<br>12.83   | 14.27                   |
| 22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 169.94<br>9.66<br>20.01<br>-12.08<br>14.74  | 16.38                   |
| 22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 235.07<br>12.72<br>27.48<br>-15.89<br>22.84 | 25.39                   |
| 22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 384.18<br>23.96<br>45.91<br>-29.96<br>25.39 | 28.23                   |
| <b>22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)</b>  |   |                         |
| 22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 7.50<br>0.16<br>0.80<br>-0.20<br>1.67       | 3.71                    |
| 22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 9.83<br>0.28<br>1.07<br>-0.35<br>1.90       | 3.86                    |
| 22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 10.30<br>0.33<br>1.13<br>-0.41<br>1.86      | 4.01                    |
| 22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 14.57<br>0.59<br>1.64<br>-0.74<br>2.15      | 4.26                    |
| 22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>     | 17.47<br>0.79<br>1.99<br>-0.98<br>2.29      | 4.79                    |
| 22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe .....<br><i>For Medical/Oxygen Service Tubing, Add</i><br><i>For Up To 20, Add</i><br><i>For &gt;150, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 23.06<br>0.98<br>2.61<br>-1.23<br>3.24      | 7.12                    |



|              |                                    |
|--------------|------------------------------------|
| <b>22</b>    | <b>Plumbing</b>                    |
| <b>22 10</b> | <b>Plumbing Piping</b>             |
| <b>22 11</b> | <b>Facility Water Distribution</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe.....            | 27.84                     | 7.95                    |
| For Medical/Oxygen Service Tubing, Add  | 1.26                      |                         |
| For Up To 20, Add   | 3.18                      |                         |
| For >150, Deduct  | -1.57                     |                         |
| For Work In Restricted Working Space, Add                                     | 3.65                      |                         |
| 22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe.....                | 39.00                     | 9.81                    |
| For Medical/Oxygen Service Tubing, Add  | 1.93                      |                         |
| For Up To 20, Add   | 4.50                      |                         |
| For >150, Deduct  | -2.41                     |                         |
| For Work In Restricted Working Space, Add                                     | 4.47                      |                         |
| 22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe.....            | 68.30                     | 11.53                   |
| For Medical/Oxygen Service Tubing, Add  | 2.87                      |                         |
| For Up To 20, Add   | 7.73                      |                         |
| For >150, Deduct  | -3.59                     |                         |
| For Work In Restricted Working Space, Add                                     | 9.71                      |                         |
| 22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe.....                | 90.83                     | 13.60                   |
| For Medical/Oxygen Service Tubing, Add  | 3.93                      |                         |
| For Up To 20, Add   | 10.31                     |                         |
| For >150, Deduct  | -4.91                     |                         |
| For Work In Restricted Working Space, Add                                     | 12.51                     |                         |
| 22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe.....                | 134.81                    | 15.33                   |
| For Medical/Oxygen Service Tubing, Add  | 7.00                      |                         |
| For Up To 20, Add   | 15.67                     |                         |
| For >150, Deduct  | -8.76                     |                         |
| For Work In Restricted Working Space, Add                                     | 14.18                     |                         |
| 22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe.....                | 216.22                    | 17.61                   |
| For Medical/Oxygen Service Tubing, Add  | 12.83                     |                         |
| For Up To 20, Add   | 25.63                     |                         |
| For >150, Deduct  | -16.04                    |                         |
| For Work In Restricted Working Space, Add                                     | 16.74                     |                         |
| 22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe.....                | 320.13                    | 27.29                   |
| For Medical/Oxygen Service Tubing, Add  | 18.42                     |                         |
| For Up To 20, Add   | 37.77                     |                         |
| For >150, Deduct  | -23.02                    |                         |
| For Work In Restricted Working Space, Add                                     | 26.98                     |                         |
| 22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe.....                | 530.14                    | 30.34                   |
| For Medical/Oxygen Service Tubing, Add  | 34.48                     |                         |
| For Up To 20, Add   | 63.79                     |                         |
| For >150, Deduct  | -43.10                    |                         |
| For Work In Restricted Working Space, Add                                     | 29.73                     |                         |
| <b>22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)</b> |                           |                         |
| 22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe.....              | 6.63                      | 3.23                    |
| For Up To 20, Add   | 0.71                      |                         |
| For >150, Deduct  | -0.20                     |                         |
| For Work In Restricted Working Space, Add                                     | 1.40                      |                         |
| 22 11 16 00-0402 LF 1/2" Hard Drawn Type M Copper Tube/Pipe.....              | 7.03                      | 3.37                    |
| For Up To 20, Add   | 0.76                      |                         |
| For >150, Deduct  | -0.22                     |                         |
| For Work In Restricted Working Space, Add                                     | 1.44                      |                         |
| 22 11 16 00-0403 LF 3/4" Hard Drawn Type M Copper Tube/Pipe.....              | 8.72                      | 3.57                    |
| For Up To 20, Add   | 0.96                      |                         |
| For >150, Deduct  | -0.36                     |                         |
| For Work In Restricted Working Space, Add                                     | 1.54                      |                         |
| 22 11 16 00-0404 LF 1" Hard Drawn Type M Copper Tube/Pipe.....                | 11.26                     | 4.01                    |
| For Up To 20, Add   | 1.26                      |                         |
| For >150, Deduct  | -0.55                     |                         |
| For Work In Restricted Working Space, Add                                     | 1.72                      |                         |
| 22 11 16 00-0405 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe.....            | 16.88                     | 5.97                    |
| For Up To 20, Add   | 1.89                      |                         |
| For >150, Deduct  | -0.81                     |                         |
| For Work In Restricted Working Space, Add                                     | 2.64                      |                         |
| 22 11 16 00-0406 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe.....            | 21.24                     | 6.66                    |
| For Up To 20, Add   | 2.40                      |                         |
| For >150, Deduct  | -1.11                     |                         |
| For Work In Restricted Working Space, Add                                     | 3.03                      |                         |
| 22 11 16 00-0407 LF 2" Hard Drawn Type M Copper Tube/Pipe.....                | 30.06                     | 8.21                    |
| For Up To 20, Add   | 3.44                      |                         |
| For >150, Deduct  | -1.75                     |                         |
| For Work In Restricted Working Space, Add                                     | 3.76                      |                         |
| 22 11 16 00-0408 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe.....            | 55.88                     | 9.65                    |
| For Up To 20, Add   | 6.22                      |                         |
| For >150, Deduct  | -2.54                     |                         |
| For Work In Restricted Working Space, Add                                     | 9.14                      |                         |
| 22 11 16 00-0409 LF 3" Hard Drawn Type M Copper Tube/Pipe.....                | 68.01                     | 11.37                   |
| For Up To 20, Add   | 7.65                      |                         |
| For >150, Deduct  | -3.38                     |                         |
| For Work In Restricted Working Space, Add                                     | 10.26                     |                         |
| 22 11 16 00-0410 LF 4" Hard Drawn Type M Copper Tube/Pipe.....                | 103.23                    | 12.84                   |
| For Up To 20, Add   | 11.91                     |                         |
| For >150, Deduct  | -6.33                     |                         |
| For Work In Restricted Working Space, Add                                     | 11.97                     |                         |



|  |                                    |              |
|--|------------------------------------|--------------|
|  | <b>Plumbing</b>                    | <b>22</b>    |
|  | <b>Plumbing Piping</b>             | <b>22 10</b> |
|  | <b>Facility Water Distribution</b> | <b>22 11</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe .....          | 168.99                    | 14.74                   |
| For Up To 20, Add  | 19.97                     |                         |
| For >150, Deduct   | -12.29                    |                         |
| For Work In Restricted Working Space, Add                                | 13.82                     |                         |
| 22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe .....          | 235.58                    | 22.86                   |
| For Up To 20, Add  | 27.66                     |                         |
| For >150, Deduct   | -16.42                    |                         |
| For Work In Restricted Working Space, Add                                | 21.41                     |                         |
| 22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe .....          | 389.71                    | 25.40                   |
| For Up To 20, Add  | 46.75                     |                         |
| For >150, Deduct   | -31.12                    |                         |
| For Work In Restricted Working Space, Add                                | 23.55                     |                         |
| <b>22 11 16 00-0414 Soft Drawn Type L Copper Tube (22 11 16 00-0369)</b> |                           |                         |
| 22 11 16 00-0415 LF 1/4" Soft Drawn Type L Copper Tube .....             | 7.39                      | 3.45                    |
| For Up To 20, Add  | 0.79                      |                         |
| For >150, Deduct   | -0.22                     |                         |
| For Work In Restricted Working Space, Add                                | 1.55                      |                         |
| 22 11 16 00-0416 LF 3/8" Soft Drawn Type L Copper Tube .....             | 8.85                      | 3.58                    |
| For Up To 20, Add  | 0.97                      |                         |
| For >150, Deduct   | -0.35                     |                         |
| For Work In Restricted Working Space, Add                                | 1.61                      |                         |
| 22 11 16 00-0417 LF 1/2" Soft Drawn Type L Copper Tube .....             | 10.27                     | 3.74                    |
| For Up To 20, Add  | 1.14                      |                         |
| For >150, Deduct   | -0.47                     |                         |
| For Work In Restricted Working Space, Add                                | 1.68                      |                         |
| 22 11 16 00-0418 LF 5/8" Soft Drawn Type L Copper Tube .....             | 11.76                     | 3.86                    |
| For Up To 20, Add  | 1.33                      |                         |
| For >150, Deduct   | -0.60                     |                         |
| For Work In Restricted Working Space, Add                                | 1.73                      |                         |
| 22 11 16 00-0419 LF 3/4" Soft Drawn Type L Copper Tube .....             | 13.08                     | 3.97                    |
| For Up To 20, Add  | 1.49                      |                         |
| For >150, Deduct   | -0.71                     |                         |
| For Work In Restricted Working Space, Add                                | 1.79                      |                         |
| 22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube .....               | 16.55                     | 4.45                    |
| For Up To 20, Add  | 1.90                      |                         |
| For >150, Deduct   | -0.99                     |                         |
| For Work In Restricted Working Space, Add                                | 2.00                      |                         |
| 22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube .....           | 22.92                     | 6.63                    |
| For Up To 20, Add  | 2.62                      |                         |
| For >150, Deduct   | -1.30                     |                         |
| For Work In Restricted Working Space, Add                                | 2.98                      |                         |
| 22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube .....           | 28.70                     | 7.40                    |
| For Up To 20, Add  | 3.31                      |                         |
| For >150, Deduct   | -1.76                     |                         |
| For Work In Restricted Working Space, Add                                | 3.33                      |                         |
| 22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube .....               | 41.68                     | 9.13                    |
| For Up To 20, Add  | 4.87                      |                         |
| For >150, Deduct   | -2.80                     |                         |
| For Work In Restricted Working Space, Add                                | 4.10                      |                         |
| <b>22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)</b> |                           |                         |
| 22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube .....             | 7.62                      | 3.45                    |
| For Up To 20, Add  | 0.82                      |                         |
| For >150, Deduct   | -0.25                     |                         |
| For Work In Restricted Working Space, Add                                | 1.55                      |                         |
| 22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube .....             | 9.57                      | 3.58                    |
| For Up To 20, Add  | 1.06                      |                         |
| For >150, Deduct   | -0.42                     |                         |
| For Work In Restricted Working Space, Add                                | 1.61                      |                         |
| 22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube .....             | 10.87                     | 3.74                    |
| For Up To 20, Add  | 1.22                      |                         |
| For >150, Deduct   | -0.53                     |                         |
| For Work In Restricted Working Space, Add                                | 1.68                      |                         |
| 22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube .....             | 12.05                     | 3.86                    |
| For Up To 20, Add  | 1.36                      |                         |
| For >150, Deduct   | -0.63                     |                         |
| For Work In Restricted Working Space, Add                                | 1.73                      |                         |
| 22 11 16 00-0429 LF 3/4" Soft Drawn Type K Copper Tube .....             | 15.67                     | 3.97                    |
| For Up To 20, Add  | 1.81                      |                         |
| For >150, Deduct   | -0.97                     |                         |
| For Work In Restricted Working Space, Add                                | 1.79                      |                         |
| 22 11 16 00-0430 LF 1" Soft Drawn Type K Copper Tube .....               | 19.59                     | 4.45                    |
| For Up To 20, Add  | 2.28                      |                         |
| For >150, Deduct   | -1.29                     |                         |
| For Work In Restricted Working Space, Add                                | 2.00                      |                         |
| 22 11 16 00-0431 LF 1-1/4" Soft Drawn Type K Copper Tube .....           | 25.14                     | 6.63                    |
| For Up To 20, Add  | 2.89                      |                         |
| For >150, Deduct   | -1.52                     |                         |
| For Work In Restricted Working Space, Add                                | 2.98                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0432 LF 1-1/2" Soft Drawn Type K Copper Tube .....            | 32.23                     | 7.40                    |
| For Up To 20, Add   | 3.75                      |                         |
| For >150, Deduct  | -2.11                     |                         |
| For Work In Restricted Working Space, Add                                 | 3.33                      |                         |
| 22 11 16 00-0433 LF 2" Soft Drawn Type K Copper Tube.....                 | 46.54                     | 9.13                    |
| For Up To 20, Add   | 5.48                      |                         |
| For >150, Deduct  | -3.29                     |                         |
| For Work In Restricted Working Space, Add                                 | 4.10                      |                         |
| 22 11 16 00-0434 LF 2-1/2" Soft Drawn Type K Copper Tube .....            | 65.69                     | 10.95                   |
| For Up To 20, Add   | 7.80                      |                         |
| For >150, Deduct  | -4.93                     |                         |
| For Work In Restricted Working Space, Add                                 | 4.92                      |                         |
| 22 11 16 00-0435 LF 3" Soft Drawn Type K Copper Tube.....                 | 87.93                     | 12.92                   |
| For Up To 20, Add   | 10.51                     |                         |
| For >150, Deduct  | -6.86                     |                         |
| For Work In Restricted Working Space, Add                                 | 5.81                      |                         |
| <b>22 11 16 00-0436 Copper And Brass Fittings (22 11 16 00-0368)</b>      |                           |                         |
| Note: All fittings are based on 95/5 solder.                              |                           |                         |
| <b>22 11 16 00-0437 90 Degree Copper Elbows (22 11 16 00-0436)</b>        |                           |                         |
| 22 11 16 00-0438 EA 1/4" 90 Degree Copper Elbow .....                     | 35.02                     | 20.43                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 4.81                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.28                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 4.59                      |                         |
| For Street Fitting, Add   | 1.76                      |                         |
| For Work In Restricted Working Space, Add                                 | 9.19                      |                         |
| 22 11 16 00-0439 EA 3/8" 90 Degree Copper Elbow .....                     | 41.39                     | 24.50                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 5.74                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.91                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 5.51                      |                         |
| For Street Fitting, Add   | 1.86                      |                         |
| For Work In Restricted Working Space, Add                                 | 11.03                     |                         |
| 22 11 16 00-0440 EA 1/2" 90 Degree Copper Elbow .....                     | 52.03                     | 33.68                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 7.65                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -5.13                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 7.58                      |                         |
| For Street Fitting, Add   | 0.60                      |                         |
| For Work In Restricted Working Space, Add                                 | 15.16                     |                         |
| 22 11 16 00-0441 EA 3/4" 90 Degree Copper Elbow .....                     | 66.17                     | 41.96                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 9.59                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -6.45                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 9.42                      |                         |
| For Street Fitting, Add   | 1.35                      |                         |
| For Work In Restricted Working Space, Add                                 | 18.84                     |                         |
| 22 11 16 00-0442 EA 1" 90 Degree Copper Elbow .....                       | 83.31                     | 50.07                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 11.67                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -7.92                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 11.26                     |                         |
| For Street Fitting, Add   | 3.31                      |                         |
| For Work In Restricted Working Space, Add                                 | 22.51                     |                         |
| 22 11 16 00-0443 EA 1-1/4" 90 Degree Copper Elbow .....                   | 93.53                     | 54.21                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 12.79                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -8.73                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 12.17                     |                         |
| For Street Fitting, Add   | 4.95                      |                         |
| For Work In Restricted Working Space, Add                                 | 24.35                     |                         |
| 22 11 16 00-0444 EA 1-1/2" 90 Degree Copper Elbow .....                   | 108.16                    | 59.26                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 14.29                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -9.85                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 13.32                     |                         |
| For Street Fitting, Add   | 7.74                      |                         |
| For Work In Restricted Working Space, Add                                 | 26.65                     |                         |
| 22 11 16 00-0445 EA 2" 90 Degree Copper Elbow .....                       | 134.80                    | 66.45                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 16.69                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -11.72                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 14.93                     |                         |
| For Street Fitting, Add   | 14.10                     |                         |
| For Work In Restricted Working Space, Add                                 | 29.86                     |                         |
| 22 11 16 00-0446 EA 2-1/2" 90 Degree Copper Elbow .....                   | 168.94                    | 67.68                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 18.60                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -13.52                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 15.23                     |                         |
| For Work In Restricted Working Space, Add                                 | 30.45                     |                         |
| 22 11 16 00-0447 EA 3" 90 Degree Copper Elbow .....                       | 216.35                    | 80.92                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 22.94                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -16.88                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 18.19                     |                         |
| For Work In Restricted Working Space, Add                                 | 36.37                     |                         |
| 22 11 16 00-0448 EA 4" 90 Degree Copper Elbow .....                       | 402.75                    | 114.76                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 37.34                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -28.74                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 25.80                     |                         |
| For Work In Restricted Working Space, Add                                 | 51.60                     |                         |



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                           | DEMOLITION UNIT COST |
|--|-----|-----|--|--|----------------------|
| 22 11 16 00-0449   | EA  |     | 5" 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                              | 1,202.15<br>83.65<br>-71.88<br>35.32<br>70.63    | 157.05               |
| 22 11 16 00-0450   | EA  |     | 6" 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                              | 1,631.28<br>115.82<br>-98.69<br>51.39<br>102.77  | 228.53               |
| 22 11 16 00-0451   | EA  |     | 8" 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                              | 5,224.29<br>306.89<br>-284.05<br>68.52<br>137.03 | 304.66               |
| <b>22 11 16 00-0452      90 Degree Brass Elbows (22 11 16 00-0436)</b>           |     |     |  |  |                      |
| 22 11 16 00-0453   | EA  |     | 1/2" Drop Ear 90 Degree Brass Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 59.97<br>8.05<br>-5.53<br>7.58<br>15.16          | 33.68                |
| 22 11 16 00-0454   | EA  |     | 3/4" Drop Ear 90 Degree Brass Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 90.32<br>10.80<br>-7.66<br>9.42<br>18.84         | 41.96                |
| 22 11 16 00-0455   | EA  |     | 1/2" Flanged Sink 90 Degree Brass Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                | 67.74<br>8.44<br>-5.91<br>7.58<br>15.16          | 33.68                |
| 22 11 16 00-0456   | EA  |     | 3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 50.87<br>6.22<br>-4.38<br>5.51<br>11.03          | 24.50                |
| 22 11 16 00-0457   | EA  |     | 1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 60.64<br>8.09<br>-5.56<br>7.58<br>15.16          | 33.68                |
| 22 11 16 00-0458   | EA  |     | 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 80.59<br>10.31<br>-7.17<br>9.42<br>18.84         | 41.96                |
| 22 11 16 00-0459   | EA  |     | 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 131.86<br>14.10<br>-10.35<br>11.26<br>22.51      | 50.07                |
| <b>22 11 16 00-0460      Reducing 90 Degree Copper Elbows (22 11 16 00-0436)</b> |     |     |  |  |                      |
| 22 11 16 00-0461   | EA  |     | 1/2" Reducing 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 62.73<br>8.19<br>-5.66<br>7.58<br>15.16          | 33.68                |
| 22 11 16 00-0462   | EA  |     | 3/4" Reducing 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 71.44<br>9.85<br>-6.71<br>9.42<br>18.84          | 41.96                |
| 22 11 16 00-0463   | EA  |     | 1" Reducing 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 90.92<br>12.05<br>-8.30<br>11.26<br>22.51        | 50.07                |
| 22 11 16 00-0464   | EA  |     | 1-1/4" Reducing 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                 | 121.60<br>14.20<br>-10.14<br>12.17<br>24.35      | 54.21                |
| 22 11 16 00-0465   | EA  |     | 1-1/2" Reducing 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                 | 141.96<br>15.98<br>-11.54<br>13.32<br>26.65      | 59.26                |
| 22 11 16 00-0466   | EA  |     | 2" Reducing 90 Degree Copper Elbow .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 171.06<br>18.51<br>-13.53<br>14.93<br>29.86      | 66.45                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 11 16 00-0467</b> <b>45 Degree Copper Elbows</b> <small>(22 11 16 00-0436)</small> |                           |                         |
| 22 11 16 00-0468    EA   1/4" 45 Degree Copper Elbow .....38.82                          | 38.82                     | 20.43                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 5.00                      |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -3.47                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 4.59                      |                         |
| <i>For Street Fitting, Add</i>   | 3.28                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 22 11 16 00-0469    EA   3/8" 45 Degree Copper Elbow .....43.77                          | 43.77                     | 24.50                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 5.86                      |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -4.03                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 5.51                      |                         |
| <i>For Street Fitting, Add</i>   | 2.81                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 11.03                     |                         |
| 22 11 16 00-0470    EA   1/2" 45 Degree Copper Elbow .....53.29                          | 53.29                     | 33.68                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 7.72                      |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -5.19                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 7.58                      |                         |
| <i>For Street Fitting, Add</i>   | 1.10                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 15.16                     |                         |
| 22 11 16 00-0471    EA   3/4" 45 Degree Copper Elbow .....67.51                          | 67.51                     | 41.96                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 9.65                      |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -6.52                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 9.42                      |                         |
| <i>For Street Fitting, Add</i>   | 1.89                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.84                     |                         |
| 22 11 16 00-0472    EA   1" 45 Degree Copper Elbow .....86.82                            | 86.82                     | 50.07                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 11.85                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -8.09                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 11.26                     |                         |
| <i>For Street Fitting, Add</i>   | 4.71                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 22.51                     |                         |
| 22 11 16 00-0473    EA   1-1/4" 45 Degree Copper Elbow .....97.12                        | 97.12                     | 54.21                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 12.97                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -8.91                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 12.17                     |                         |
| <i>For Street Fitting, Add</i>   | 6.38                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.35                     |                         |
| 22 11 16 00-0474    EA   1-1/2" 45 Degree Copper Elbow .....108.41                       | 108.41                    | 59.26                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 14.30                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -9.86                     |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 13.32                     |                         |
| <i>For Street Fitting, Add</i>   | 7.84                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.65                     |                         |
| 22 11 16 00-0475    EA   2" 45 Degree Copper Elbow .....132.21                           | 132.21                    | 66.45                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 16.56                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -11.59                    |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 14.93                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 29.86                     |                         |
| 22 11 16 00-0476    EA   2-1/2" 45 Degree Copper Elbow .....168.12                       | 168.12                    | 67.68                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 18.56                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -13.48                    |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 15.23                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.45                     |                         |
| 22 11 16 00-0477    EA   3" 45 Degree Copper Elbow .....220.09                           | 220.09                    | 80.92                   |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 23.13                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -17.07                    |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 18.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 36.37                     |                         |
| 22 11 16 00-0478    EA   4" 45 Degree Copper Elbow .....382.78                           | 382.78                    | 114.76                  |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 36.34                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -27.74                    |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 25.80                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 51.60                     |                         |
| 22 11 16 00-0479    EA   5" 45 Degree Copper Elbow .....1,051.79                         | 1,051.79                  | 157.05                  |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 76.13                     |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -64.36                    |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 35.32                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 70.63                     |                         |
| 22 11 16 00-0480    EA   6" 45 Degree Copper Elbow .....1,629.08                         | 1,629.08                  | 228.53                  |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 115.71                    |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -98.58                    |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 51.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 102.77                    |                         |
| 22 11 16 00-0481    EA   8" 45 Degree Copper Elbow .....4,828.22                         | 4,828.22                  | 304.66                  |
| <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                                     | 287.09                    |                         |
| <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>         | -264.25                   |                         |
| <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                                   | 68.52                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 137.03                    |                         |

22 11 16 00-0482      Straight Copper And Brass Tees (22 11 16 00-0436)



| MINOR            | CSI  | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                            | DEMOLITION UNIT COST |
|------------------|--|-----|---|---|----------------------|
| 22 11 16 00-0483 | EA   |     | 1/4" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 55.13<br>7.35<br>-5.05<br>6.89<br>13.78           | 30.63                |
| 22 11 16 00-0484 | EA   |     | 3/8" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 62.52<br>8.64<br>-5.88<br>8.27<br>16.54           | 36.75                |
| 22 11 16 00-0485 | EA   |     | 1/2" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 79.16<br>11.62<br>-7.79<br>11.49<br>22.97         | 51.14                |
| 22 11 16 00-0486 | EA   |     | 3/4" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 101.12<br>14.55<br>-9.80<br>14.24<br>28.48        | 63.40                |
| 22 11 16 00-0487 | EA   |     | 1" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 131.91<br>17.93<br>-12.26<br>17.00<br>34.00       | 75.65                |
| 22 11 16 00-0488 | EA   |     | 1-1/4" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 148.40<br>19.67<br>-13.55<br>18.38<br>36.75       | 81.77                |
| 22 11 16 00-0489 | EA   |     | 1-1/2" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 172.41<br>21.94<br>-15.28<br>19.98<br>39.97       | 88.82                |
| 22 11 16 00-0490 | EA   |     | 2" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 212.36<br>25.63<br>-18.12<br>22.51<br>45.02       | 100.15               |
| 22 11 16 00-0491 | EA   |     | 2-1/2" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 272.47<br>28.85<br>-21.24<br>22.84<br>45.68       | 101.50               |
| 22 11 16 00-0492 | EA   |     | 3" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 366.93<br>36.67<br>-27.51<br>27.49<br>54.98       | 122.23               |
| 22 11 16 00-0493 | EA   |     | 4" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 701.06<br>60.71<br>-47.88<br>38.49<br>76.97       | 171.15               |
| 22 11 16 00-0494 | EA   |     | 5" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 1,804.04<br>125.31<br>-107.75<br>52.66<br>105.32  | 234.17               |
| 22 11 16 00-0495 | EA   |     | 6" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 2,500.80<br>176.50<br>-150.77<br>77.19<br>154.37  | 343.28               |
| 22 11 16 00-0496 | EA   |     | 8" Straight Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 8,346.93<br>485.86<br>-451.61<br>102.78<br>205.55 | 457.06               |
| 22 11 16 00-0497 | EA   |     | 1/2" Cast Bronze Drop Ear Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 92.49<br>12.28<br>-8.45<br>11.49<br>22.97         | 51.14                |
| 22 11 16 00-0498 | <b>Reducing Copper Tees</b> (22 11 16 00-0436) |     |   |   |                      |
| 22 11 16 00-0499 | EA   |     | 3/8" Reducing Copper Tee .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 63.62<br>8.08<br>-5.63<br>7.35<br>14.70           | 32.62                |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 22 11 16 00-0500        | EA  |     | 1/2" Reducing Copper Tee.....  | 81.78                  | 45.94                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 10.98                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -7.53                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 10.34                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 20.67                  |                      |
| 22 11 16 00-0501        | EA  |     | 3/4" Reducing Copper Tee.....  | 95.38                  | 59.26                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 13.65                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -9.21                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 13.32                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 26.65                  |                      |
| 22 11 16 00-0502        | EA  |     | 1" Reducing Copper Tee.....  | 128.05                 | 71.51                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 17.12                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -11.76                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 16.08                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 32.16                  |                      |
| 22 11 16 00-0503        | EA  |     | 1-1/4" Reducing Copper Tee.....  | 148.01                 | 77.64                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 19.04                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -13.22                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 17.46                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 34.91                  |                      |
| 22 11 16 00-0504        | EA  |     | 1-1/2" Reducing Copper Tee.....  | 171.80                 | 84.84                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 21.30                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -14.95                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 19.07                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 38.13                  |                      |
| 22 11 16 00-0505        | EA  |     | 2" Reducing Copper Tee.....  | 207.04                 | 94.94                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 24.59                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -17.47                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 21.36                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 42.72                  |                      |
| 22 11 16 00-0506        | EA  |     | 2-1/2" Reducing Copper Tee.....  | 278.31                 | 97.84                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 28.58                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -21.25                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 21.99                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 43.99                  |                      |
| 22 11 16 00-0507        | EA  |     | 3" Reducing Copper Tee.....  | 385.43                 | 112.79               |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 36.19                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -27.73                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 25.38                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 50.75                  |                      |
| 22 11 16 00-0508        | EA  |     | 4" Reducing Copper Tee.....  | 663.89                 | 139.15               |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 54.06                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -43.63                 |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 31.30                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 62.60                  |                      |
| <b>22 11 16 00-0509</b> |     |     | <b>Copper Couplings</b> (22 11 16 00-0436)                                       |                        |                      |
| 22 11 16 00-0510        | EA  |     | 1/4" Copper Coupling.....  | 31.51                  | 20.43                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 4.64                   |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -3.11                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 4.59                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 9.19                   |                      |
| 22 11 16 00-0511        | EA  |     | 3/8" Copper Coupling.....  | 37.92                  | 24.50                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 5.57                   |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -3.73                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 5.51                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 11.03                  |                      |
| 22 11 16 00-0512        | EA  |     | 1/2" Copper Coupling.....  | 51.49                  | 33.68                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 7.63                   |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -5.10                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 7.58                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 15.16                  |                      |
| 22 11 16 00-0513        | EA  |     | 3/4" Copper Coupling.....  | 64.75                  | 41.96                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 9.52                   |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -6.38                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 9.42                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 18.84                  |                      |
| 22 11 16 00-0514        | EA  |     | 1" Copper Coupling.....  | 78.93                  | 50.07                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 11.45                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -7.70                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 11.26                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 22.51                  |                      |
| 22 11 16 00-0515        | EA  |     | 1-1/4" Copper Coupling.....  | 88.01                  | 54.21                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 12.52                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -8.46                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 12.17                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 24.35                  |                      |
| 22 11 16 00-0516        | EA  |     | 1-1/2" Copper Coupling.....  | 97.89                  | 59.26                |
|                         |     |     | <i>For Silver Solder Instead Of 95/5 Solder, Add</i>                             | 13.78                  |                      |
|                         |     |     | <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> | -9.34                  |                      |
|                         |     |     | <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>                           | 13.32                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>                                 | 26.65                  |                      |



|                             |           |           |
|-----------------------------|-----------|-----------|
| <b>Plumbing</b>             | <b>22</b> | <b>22</b> |
| Plumbing Piping             | 22 10     |           |
| Facility Water Distribution | 22 11     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                       | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 22 11 16 00-0517 EA 2" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 114.62<br>15.69<br>-10.71<br>14.93<br>29.86     | 65.85                   |
| 22 11 16 00-0518 EA 2-1/2" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 126.11<br>15.89<br>-11.10<br>14.38<br>28.76     | 64.00                   |
| 22 11 16 00-0519 EA 3" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 156.76<br>19.40<br>-13.62<br>17.34<br>34.68     | 77.54                   |
| 22 11 16 00-0520 EA 4" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 245.74<br>27.80<br>-20.04<br>23.26<br>46.52     | 104.33                  |
| 22 11 16 00-0521 EA 5" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 400.42<br>41.17<br>-30.59<br>31.72<br>63.44     | 190.33                  |
| 22 11 16 00-0522 EA 6" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 622.41<br>62.14<br>-46.63<br>46.52<br>93.05     | 206.82                  |
| 22 11 16 00-0523 EA 8" Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 1,423.84<br>112.36<br>-91.78<br>61.75<br>123.50 | 274.21                  |
| <b>22 11 16 00-0524 Reducing Copper Couplings</b> <small>(22 11 16 00-0436)</small>  |   |                         |
| 22 11 16 00-0525 EA 3/8" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 32.55<br>4.69<br>-3.16<br>4.59<br>9.19          | 20.37                   |
| 22 11 16 00-0526 EA 1/2" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 45.66<br>6.65<br>-4.47<br>6.55<br>13.10         | 29.09                   |
| 22 11 16 00-0527 EA 3/4" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 60.13<br>8.67<br>-5.84<br>8.50<br>17.00         | 37.83                   |
| 22 11 16 00-0528 EA 1" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 75.18<br>10.65<br>-7.20<br>10.34<br>20.67       | 45.94                   |
| 22 11 16 00-0529 EA 1-1/4" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 86.82<br>12.15<br>-8.25<br>11.71<br>23.43       | 52.06                   |
| 22 11 16 00-0530 EA 1-1/2" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 99.44<br>13.47<br>-9.22<br>12.75<br>25.50       | 56.66                   |
| 22 11 16 00-0531 EA 2" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 116.53<br>15.24<br>-10.54<br>14.13<br>28.25     | 62.79                   |
| 22 11 16 00-0532 EA 2-1/2" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 141.44<br>16.73<br>-11.90<br>14.49<br>28.97     | 64.43                   |
| 22 11 16 00-0533 EA 3" Reducing Copper Coupling.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 166.84<br>19.48<br>-13.91<br>16.71<br>33.41     | 74.72                   |



**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0534 EA 4" Reducing Copper Coupling.....                      | 256.72                    | 97.84                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 27.50                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -20.17                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 21.99                     |                         |
| For Work In Restricted Working Space, Add                                 | 43.99                     |                         |
| 22 11 16 00-0535 EA 5" Reducing Copper Coupling.....                      | 634.96                    | 136.33                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 52.19                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -41.97                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 30.66                     |                         |
| For Work In Restricted Working Space, Add                                 | 61.33                     |                         |
| 22 11 16 00-0536 EA 6" Reducing Copper Coupling.....                      | 941.63                    | 183.28                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 74.57                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -60.83                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 41.24                     |                         |
| For Work In Restricted Working Space, Add                                 | 82.47                     |                         |
| 22 11 16 00-0537 EA 8" Reducing Copper Coupling.....                      | 1,813.78                  | 267.06                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 130.73                    |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -110.71                   |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 60.06                     |                         |
| For Work In Restricted Working Space, Add                                 | 120.12                    |                         |
| <b>22 11 16 00-0538 Male Copper Adapters (22 11 16 00-0436)</b>           |                           |                         |
| 22 11 16 00-0539 EA 1/4" Male Copper Adapter.....                         | 46.13                     | 19.90                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 5.37                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.84                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 4.59                      |                         |
| For Work In Restricted Working Space, Add                                 | 9.19                      |                         |
| 22 11 16 00-0540 EA 3/8" Male Copper Adapter.....                         | 44.48                     | 24.50                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 5.90                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -4.06                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 5.51                      |                         |
| For Work In Restricted Working Space, Add                                 | 11.03                     |                         |
| 22 11 16 00-0541 EA 1/2" Male Copper Adapter.....                         | 49.07                     | 30.63                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 7.05                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -4.75                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 6.89                      |                         |
| For Work In Restricted Working Space, Add                                 | 13.78                     |                         |
| 22 11 16 00-0542 EA 3/4" Male Copper Adapter.....                         | 61.97                     | 38.28                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 8.76                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -5.93                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 8.50                      |                         |
| For Work In Restricted Working Space, Add                                 | 17.00                     |                         |
| 22 11 16 00-0543 EA 1" Male Copper Adapter.....                           | 79.34                     | 44.41                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 10.55                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -7.26                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 9.88                      |                         |
| For Work In Restricted Working Space, Add                                 | 19.76                     |                         |
| 22 11 16 00-0544 EA 1-1/4" Male Copper Adapter.....                       | 96.21                     | 50.53                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 12.47                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -8.64                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 11.49                     |                         |
| For Work In Restricted Working Space, Add                                 | 22.97                     |                         |
| 22 11 16 00-0545 EA 1-1/2" Male Copper Adapter.....                       | 110.26                    | 58.19                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 14.24                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -9.88                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 13.09                     |                         |
| For Work In Restricted Working Space, Add                                 | 26.18                     |                         |
| 22 11 16 00-0546 EA 2" Male Copper Adapter.....                           | 150.68                    | 74.26                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 18.71                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -13.12                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 16.77                     |                         |
| For Work In Restricted Working Space, Add                                 | 33.54                     |                         |
| 22 11 16 00-0547 EA 2-1/2" Male Copper Adapter.....                       | 264.60                    | 96.47                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 27.63                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -20.43                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 21.59                     |                         |
| For Work In Restricted Working Space, Add                                 | 43.19                     |                         |
| 22 11 16 00-0548 EA 3" Male Copper Adapter.....                           | 351.46                    | 128.64                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 36.75                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -27.16                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 28.76                     |                         |
| For Work In Restricted Working Space, Add                                 | 57.52                     |                         |
| 22 11 16 00-0549 EA 4" Male Copper Adapter.....                           | 526.13                    | 180.45                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 53.37                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -39.84                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 40.60                     |                         |
| For Work In Restricted Working Space, Add                                 | 81.20                     |                         |
| <b>22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)</b>         |                           |                         |
| 22 11 16 00-0551 EA 1/4" Female Copper Adapter.....                       | 40.53                     | 19.90                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 5.09                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.56                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 4.59                      |                         |
| For Work In Restricted Working Space, Add                                 | 9.19                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 22 11 16 00-0552 EA 3/8" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>       | 47.11<br>6.03<br>-4.19<br>5.51<br>11.03     | 24.50                   |
| 22 11 16 00-0553 EA 1/2" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>       | 50.95<br>7.14<br>-4.84<br>6.89<br>13.78     | 30.63                   |
| 22 11 16 00-0554 EA 3/4" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>       | 63.51<br>8.84<br>-6.01<br>8.50<br>17.00     | 38.28                   |
| 22 11 16 00-0555 EA 1" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>         | 81.52<br>10.66<br>-7.37<br>9.88<br>19.76    | 44.41                   |
| 22 11 16 00-0556 EA 1-1/4" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 99.55<br>12.63<br>-8.81<br>11.49<br>22.97   | 50.53                   |
| 22 11 16 00-0557 EA 1-1/2" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 123.25<br>14.89<br>-10.53<br>13.09<br>26.18 | 58.19                   |
| 22 11 16 00-0558 EA 2" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>         | 160.59<br>19.21<br>-13.62<br>16.77<br>33.54 | 74.26                   |
| 22 11 16 00-0559 EA 2-1/2" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 302.77<br>28.39<br>-21.76<br>19.88<br>39.76 | 88.82                   |
| 22 11 16 00-0560 EA 3" Female Copper Adapter .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>         | 478.51<br>43.10<br>-33.51<br>28.76<br>57.52 | 128.64                  |
| <b>22 11 16 00-0561 Wrot Copper, Solder Union (22 11 16 00-0436)</b>   |   |                         |
| 22 11 16 00-0562 EA 1/4" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 58.64<br>6.61<br>-4.77<br>5.51<br>11.03     | 24.50                   |
| 22 11 16 00-0563 EA 3/8" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 66.96<br>7.79<br>-5.57<br>6.66<br>13.32     | 29.55                   |
| 22 11 16 00-0564 EA 1/2" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 69.07<br>8.97<br>-6.21<br>8.27<br>16.54     | 36.75                   |
| 22 11 16 00-0565 EA 3/4" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 79.93<br>10.28<br>-7.14<br>9.42<br>18.84    | 41.96                   |
| 22 11 16 00-0566 EA 1" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 104.50<br>12.73<br>-8.98<br>11.26<br>22.51  | 50.07                   |
| 22 11 16 00-0567 EA 1-1/4" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 125.35<br>14.54<br>-10.40<br>12.40<br>24.81 | 55.13                   |
| 22 11 16 00-0568 EA 1-1/2" Wrot Copper, Solder Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 152.02<br>16.79<br>-12.20<br>13.78<br>27.56 | 61.26                   |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 16 00-0569 EA 2" Wrot Copper, Solder Union.....                                  | 212.77                    | 73.50                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 21.66                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -16.15                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 16.54                     |                         |
| For Work In Restricted Working Space, Add  | 33.08                     |                         |
| 22 11 16 00-0570 EA 2-1/2" Wrot Copper, Solder Union.....                              | 400.81                    | 80.92                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 32.16                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -26.10                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 18.19                     |                         |
| For Work In Restricted Working Space, Add  | 36.37                     |                         |
| 22 11 16 00-0571 EA 3" Wrot Copper, Solder Union.....                                  | 895.45                    | 114.76                  |
| For Silver Solder Instead Of 95/5 Solder, Add  | 61.97                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -53.37                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 25.80                     |                         |
| For Work In Restricted Working Space, Add  | 51.60                     |                         |
| <b>22 11 16 00-0572 Cast Bronze, Solder Union (22 11 16 00-0436)</b>                   |                           |                         |
| 22 11 16 00-0573 EA 1/4" Cast Bronze, Solder Union.....                                | 66.71                     | 24.50                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 7.01                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -5.17                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 5.51                      |                         |
| For Work In Restricted Working Space, Add  | 11.03                     |                         |
| 22 11 16 00-0574 EA 3/8" Cast Bronze, Solder Union.....                                | 74.58                     | 29.55                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 8.17                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -5.95                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 6.66                      |                         |
| For Work In Restricted Working Space, Add  | 13.32                     |                         |
| 22 11 16 00-0575 EA 1/2" Cast Bronze, Solder Union.....                                | 71.19                     | 36.75                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 9.07                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -6.32                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 8.27                      |                         |
| For Work In Restricted Working Space, Add  | 16.54                     |                         |
| 22 11 16 00-0576 EA 3/4" Cast Bronze, Solder Union.....                                | 82.93                     | 41.96                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 10.43                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -7.29                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 9.42                      |                         |
| For Work In Restricted Working Space, Add  | 18.84                     |                         |
| 22 11 16 00-0577 EA 1" Cast Bronze, Solder Union.....                                  | 109.70                    | 50.07                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 12.99                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -9.24                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 11.26                     |                         |
| For Work In Restricted Working Space, Add  | 22.51                     |                         |
| 22 11 16 00-0578 EA 1-1/4" Cast Bronze, Solder Union.....                              | 139.57                    | 55.13                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 15.25                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -11.11                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 12.40                     |                         |
| For Work In Restricted Working Space, Add  | 24.81                     |                         |
| 22 11 16 00-0579 EA 1-1/2" Cast Bronze, Solder Union.....                              | 166.86                    | 61.26                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 17.53                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -12.94                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 13.78                     |                         |
| For Work In Restricted Working Space, Add  | 27.56                     |                         |
| 22 11 16 00-0580 EA 2" Cast Bronze, Solder Union.....                                  | 238.03                    | 73.50                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 22.93                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -17.41                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 16.54                     |                         |
| For Work In Restricted Working Space, Add  | 33.08                     |                         |
| 22 11 16 00-0581 EA 2-1/2" Cast Bronze, Solder Union.....                              | 400.80                    | 80.92                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 32.16                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -26.10                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 18.19                     |                         |
| For Work In Restricted Working Space, Add  | 36.37                     |                         |
| 22 11 16 00-0582 EA 3" Cast Bronze, Solder Union.....                                  | 895.45                    | 114.76                  |
| For Silver Solder Instead Of 95/5 Solder, Add  | 61.97                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -53.37                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 25.80                     |                         |
| For Work In Restricted Working Space, Add  | 51.60                     |                         |
| <b>22 11 16 00-0583 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)</b> |                           |                         |
| 22 11 16 00-0584 EA 1/4" Cast Bronze, Solder X Female Threaded Union.....              | 77.61                     | 24.50                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 7.56                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -5.72                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 5.51                      |                         |
| For Work In Restricted Working Space, Add  | 11.03                     |                         |
| 22 11 16 00-0585 EA 3/8" Cast Bronze, Solder X Female Threaded Union.....              | 86.68                     | 29.55                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 8.78                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -6.55                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 6.66                      |                         |
| For Work In Restricted Working Space, Add  | 13.32                     |                         |
| 22 11 16 00-0586 EA 1/2" Cast Bronze, Solder X Female Threaded Union.....              | 88.71                     | 36.75                   |
| For Silver Solder Instead Of 95/5 Solder, Add  | 9.95                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct              | -7.19                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add  | 8.27                      |                         |
| For Work In Restricted Working Space, Add  | 16.54                     |                         |



|  |  |
|--|--|
|  | <b>Plumbing 22</b>                       |
|  | <b>Plumbing Piping 22 10</b>             |
|  | <b>Facility Water Distribution 22 11</b> |

| MINOR  |   | TOTAL DIRECT                                | DEMOLITION |
|--|---|---|------------|
| CSI  | UOM DESCRIPTION   | UNIT COST                                   | UNIT COST  |
| 22 11 16 00-0587   | EA 3/4" Cast Bronze, Solder X Female Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 108.56<br>11.71<br>-8.57<br>9.42<br>18.84   | 41.96      |
| 22 11 16 00-0588   | EA 1" Cast Bronze, Solder X Female Threaded Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 170.24<br>16.02<br>-12.26<br>11.26<br>22.51 | 50.07      |
| 22 11 16 00-0589   | EA 1-1/4" Cast Bronze, Solder X Female Threaded Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 260.10<br>21.27<br>-17.14<br>12.40<br>24.81 | 55.13      |
| 22 11 16 00-0590   | EA 1-1/2" Cast Bronze, Solder X Female Threaded Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 316.64<br>25.02<br>-20.43<br>13.78<br>27.56 | 61.26      |
| 22 11 16 00-0591   | EA 2" Cast Bronze, Solder X Female Threaded Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 490.70<br>35.56<br>-30.05<br>16.54<br>33.08 | 73.50      |
| 22 11 16 00-0592   | EA 2-1/2" Cast Bronze, Solder X Female Threaded Union .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 842.46<br>54.25<br>-48.19<br>18.19<br>36.37 | 80.92      |
| <b>22 11 16 00-0593 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)</b> |   |   |            |
| 22 11 16 00-0594   | EA 1/4" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 67.87<br>7.07<br>-5.23<br>5.51<br>11.03     | 24.50      |
| 22 11 16 00-0595   | EA 3/8" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 80.73<br>8.48<br>-6.26<br>6.66<br>13.32     | 29.55      |
| 22 11 16 00-0596   | EA 1/2" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 81.63<br>9.59<br>-6.84<br>8.27<br>16.54     | 36.75      |
| 22 11 16 00-0597   | EA 3/4" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 102.57<br>11.41<br>-8.27<br>9.42<br>18.84   | 41.96      |
| 22 11 16 00-0598   | EA 1" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 172.98<br>16.15<br>-12.40<br>11.26<br>22.51 | 50.07      |
| 22 11 16 00-0599   | EA 1-1/4" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 204.18<br>18.48<br>-14.34<br>12.40<br>24.81 | 55.13      |
| 22 11 16 00-0600   | EA 1-1/2" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 219.49<br>20.16<br>-15.57<br>13.78<br>27.56 | 61.26      |
| 22 11 16 00-0601   | EA 2" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 306.26<br>26.34<br>-20.83<br>16.54<br>33.08 | 73.50      |
| 22 11 16 00-0602   | EA 2-1/2" Cast Bronze, Solder X Male Threaded Union.....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 695.67<br>46.91<br>-40.85<br>18.19<br>36.37 | 80.92      |
| <b>22 11 16 00-0603 Copper Caps (22 11 16 00-0436)</b>                               |   |   |            |
| 22 11 16 00-0604   | EA 1/4" Copper Cap .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                    | 11.44<br>1.58<br>-1.08<br>1.52<br>3.03      | 6.73       |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0605 EA 3/8" Copper Cap .....                                 | 14.26                     | 7.96                    |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 1.93                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -1.32                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 1.82                      |                         |
| For Work In Restricted Working Space, Add                                 | 3.64                      |                         |
| 22 11 16 00-0606 EA 1/2" Copper Cap .....                                 | 17.77                     | 11.03                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 2.56                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -1.72                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 2.50                      |                         |
| For Work In Restricted Working Space, Add                                 | 5.00                      |                         |
| 22 11 16 00-0607 EA 3/4" Copper Cap .....                                 | 22.77                     | 13.63                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 3.21                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -2.17                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 3.11                      |                         |
| For Work In Restricted Working Space, Add                                 | 6.22                      |                         |
| 22 11 16 00-0608 EA 1" Copper Cap .....                                   | 29.56                     | 16.38                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 3.95                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -2.72                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 3.71                      |                         |
| For Work In Restricted Working Space, Add                                 | 7.43                      |                         |
| 22 11 16 00-0609 EA 1-1/4" Copper Cap .....                               | 33.21                     | 17.61                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 4.34                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.00                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 4.02                      |                         |
| For Work In Restricted Working Space, Add                                 | 8.03                      |                         |
| 22 11 16 00-0610 EA 1-1/2" Copper Cap .....                               | 38.67                     | 19.29                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 4.86                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.40                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 4.40                      |                         |
| For Work In Restricted Working Space, Add                                 | 8.79                      |                         |
| 22 11 16 00-0611 EA 2" Copper Cap .....                                   | 47.54                     | 20.02                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 5.40                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -3.89                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 4.54                      |                         |
| For Work In Restricted Working Space, Add                                 | 9.07                      |                         |
| 22 11 16 00-0612 EA 2-1/2" Copper Cap .....                               | 86.06                     | 23.40                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 7.86                      |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -6.08                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 5.33                      |                         |
| For Work In Restricted Working Space, Add                                 | 10.66                     |                         |
| 22 11 16 00-0613 EA 3" Copper Cap .....                                   | 117.83                    | 30.03                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 10.44                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -8.16                     |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 6.82                      |                         |
| For Work In Restricted Working Space, Add                                 | 13.64                     |                         |
| 22 11 16 00-0614 EA 4" Copper Cap .....                                   | 205.39                    | 45.39                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 17.15                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -13.71                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 10.32                     |                         |
| For Work In Restricted Working Space, Add                                 | 20.64                     |                         |
| 22 11 16 00-0615 EA 5" Cast Bronze Cap .....                              | 1,066.05                  | 69.93                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 63.90                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -58.60                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 15.89                     |                         |
| For Work In Restricted Working Space, Add                                 | 31.79                     |                         |
| 22 11 16 00-0616 EA 6" Cast Bronze Cap .....                              | 2,067.03                  | 101.78                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 118.77                    |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -111.06                   |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 23.12                     |                         |
| For Work In Restricted Working Space, Add                                 | 46.25                     |                         |
| 22 11 16 00-0617 EA 8" Cast Bronze Cap .....                              | 2,633.28                  | 135.62                  |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 152.22                    |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -141.94                   |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 30.83                     |                         |
| For Work In Restricted Working Space, Add                                 | 61.67                     |                         |
| <b>22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)</b>                 |                           |                         |
| 22 11 16 00-0619 EA 1/2" Copper Cross .....                               | 110.28                    | 62.03                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 14.82                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -10.17                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 13.96                     |                         |
| For Work In Restricted Working Space, Add                                 | 27.92                     |                         |
| 22 11 16 00-0620 EA 3/4" Copper Cross .....                               | 149.09                    | 77.12                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 19.01                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -13.23                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 17.34                     |                         |
| For Work In Restricted Working Space, Add                                 | 34.68                     |                         |
| 22 11 16 00-0621 EA 1" Copper Cross .....                                 | 195.07                    | 92.06                   |
| For Silver Solder Instead Of 95/5 Solder, Add                             | 23.57                     |                         |
| For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct | -16.66                    |                         |
| For Brazed Fittings Instead Of 95/5 Solder, Add                           | 20.73                     |                         |
| For Work In Restricted Working Space, Add                                 | 41.45                     |                         |



| MINOR   | CSI | UOM    | DESCRIPTION   | TOTAL DIRECT UNIT COST                      | DEMOLITION UNIT COST |
|---|-----|--------|---|---|----------------------|
| 22 11 16 00-0622  | EA  | 1-1/4" | Copper Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 231.22<br>26.51<br>-19.03<br>22.42<br>44.83 | 99.67                |
| 22 11 16 00-0623  | EA  | 1-1/2" | Copper Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 280.10<br>30.36<br>-22.18<br>24.53<br>49.06 | 108.97               |
| 22 11 16 00-0624  | EA  | 2"     | Copper Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 403.49<br>38.50<br>-29.34<br>27.49<br>54.98 | 122.23               |
| 22 11 16 00-0625  | EA  | 2-1/2" | Copper Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 710.61<br>55.83<br>-45.68<br>30.45<br>60.91 | 135.34               |
| <b>22 11 16 00-0626 Cast Bronze Crosses</b> (22 11 16 00-0436)  |     |        |   |   |                      |
| 22 11 16 00-0627  | EA  | 3/8"   | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 90.66<br>11.30<br>-7.92<br>10.15<br>20.30   | 45.11                |
| 22 11 16 00-0628  | EA  | 1/2"   | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 113.73<br>14.99<br>-10.34<br>13.96<br>27.92 | 62.03                |
| 22 11 16 00-0629  | EA  | 3/4"   | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 155.79<br>19.35<br>-13.57<br>17.34<br>34.68 | 77.12                |
| 22 11 16 00-0630  | EA  | 1"     | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 206.43<br>24.14<br>-17.23<br>20.73<br>41.45 | 92.06                |
| 22 11 16 00-0631  | EA  | 1-1/4" | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 247.57<br>27.32<br>-19.85<br>22.42<br>44.83 | 99.67                |
| 22 11 16 00-0632  | EA  | 1-1/2" | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 303.41<br>31.52<br>-23.35<br>24.53<br>49.06 | 108.97               |
| 22 11 16 00-0633  | EA  | 2"     | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 441.01<br>40.38<br>-31.21<br>27.49<br>54.98 | 122.23               |
| 22 11 16 00-0634  | EA  | 2-1/2" | Cast Bronze Cross .....<br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Brazed Fittings Instead Of 95/5 Solder, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 812.13<br>60.91<br>-50.76<br>30.45<br>60.91 | 135.34               |
| <b>22 11 16 00-0635 Flexible Corrugated Copper Supply Line</b> (22 11 16 00-0436)   |     |        |   |   |                      |
| 22 11 16 00-0636  | EA  | 3/4"   | Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line .....   | 114.67                                      | 41.96                |
| 22 11 16 00-0637  | EA  | 3/4"   | Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line .....   | 120.91                                      | 41.96                |
| 22 11 16 00-0638  | EA  | 3/4"   | Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line .....   | 103.44                                      | 41.96                |
| 22 11 16 00-0639  | EA  | 3/4"   | Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line .....   | 110.51                                      | 41.96                |
| 22 11 16 00-0640  | EA  | 3/4"   | Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line .....   | 116.75                                      | 41.96                |
| 22 11 16 00-0641  | EA  | 3/4"   | Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line .....   | 120.91                                      | 41.96                |
| <b>22 11 16 00-0642 Crimped Copper Fittings</b> (22 11 16 00-0368)<br>Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements. |     |        |   |   |                      |
| <b>22 11 16 00-0643 Crimped Copper 90 Degree Elbows</b> (22 11 16 00-0642)  |     |        |   |   |                      |
| 22 11 16 00-0644  | EA  | 1/2"   | Crimped Copper 90 Degree Elbow .....  | 32.87                                       | 18.38                |
| 22 11 16 00-0645  | EA  | 3/4"   | Crimped Copper 90 Degree Elbow .....  | 40.39                                       | 20.98                |
| 22 11 16 00-0646  | EA  | 1"     | Crimped Copper 90 Degree Elbow .....  | 55.53                                       | 24.96                |
| 22 11 16 00-0647  | EA  | 1-1/4" | Crimped Copper 90 Degree Elbow .....  | 77.72                                       | 27.56                |
| 22 11 16 00-0648  | EA  | 1-1/2" | Crimped Copper 90 Degree Elbow .....  | 114.83                                      | 30.63                |
| 22 11 16 00-0649  | EA  | 2"     | Crimped Copper 90 Degree Elbow .....  | 150.87                                      | 36.75                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 16 00-0650 EA 2-1/2" Crimped Copper 90 Degree Elbow.....               | 342.41                    | 42.87                   |
| 22 11 16 00-0651 EA 3" Crimped Copper 90 Degree Elbow.....                   | 426.45                    | 50.99                   |
| 22 11 16 00-0652 EA 4" Crimped Copper 90 Degree Elbow.....                   | 533.94                    | 67.38                   |
| <b>22 11 16 00-0653 Crimped Copper 45 Degree Elbows (22 11 16 00-0642)</b>   |                           |                         |
| 22 11 16 00-0654 EA 1/2" Crimped Copper 45 Degree Elbow.....                 | 33.74                     | 18.38                   |
| 22 11 16 00-0655 EA 3/4" Crimped Copper 45 Degree Elbow.....                 | 38.98                     | 20.98                   |
| 22 11 16 00-0656 EA 1" Crimped Copper 45 Degree Elbow.....                   | 61.90                     | 24.96                   |
| 22 11 16 00-0657 EA 1-1/4" Crimped Copper 45 Degree Elbow.....               | 76.31                     | 27.56                   |
| 22 11 16 00-0658 EA 1-1/2" Crimped Copper 45 Degree Elbow.....               | 102.65                    | 30.63                   |
| 22 11 16 00-0659 EA 2" Crimped Copper 45 Degree Elbow.....                   | 134.45                    | 36.75                   |
| 22 11 16 00-0660 EA 2-1/2" Crimped Copper 45 Degree Elbow.....               | 248.01                    | 42.87                   |
| 22 11 16 00-0661 EA 3" Crimped Copper 45 Degree Elbow.....                   | 339.03                    | 50.99                   |
| 22 11 16 00-0662 EA 4" Crimped Copper 45 Degree Elbow.....                   | 465.56                    | 67.38                   |
| <b>22 11 16 00-0663 Crimped Copper Straight Tees (22 11 16 00-0642)</b>      |                           |                         |
| 22 11 16 00-0664 EA 1/2" Crimped Copper Straight Tee.....                    | 49.46                     | 27.56                   |
| 22 11 16 00-0665 EA 3/4" Crimped Copper Straight Tee.....                    | 68.66                     | 36.29                   |
| 22 11 16 00-0666 EA 1" Crimped Copper Straight Tee.....                      | 86.27                     | 40.27                   |
| 22 11 16 00-0667 EA 1-1/4" Crimped Copper Straight Tee.....                  | 105.65                    | 41.34                   |
| 22 11 16 00-0668 EA 1-1/2" Crimped Copper Straight Tee.....                  | 155.22                    | 47.01                   |
| 22 11 16 00-0669 EA 2" Crimped Copper Straight Tee.....                      | 187.43                    | 55.13                   |
| 22 11 16 00-0670 EA 2-1/2" Crimped Copper Straight Tee.....                  | 440.06                    | 64.31                   |
| 22 11 16 00-0671 EA 3" Crimped Copper Straight Tee.....                      | 544.33                    | 76.57                   |
| 22 11 16 00-0672 EA 4" Crimped Copper Straight Tee.....                      | 754.23                    | 101.06                  |
| <b>22 11 16 00-0673 Crimped Copper Reducing Tees (22 11 16 00-0642)</b>      |                           |                         |
| 22 11 16 00-0674 EA 3/4" Crimped Copper Reducing Tee.....                    | 61.43                     | 26.19                   |
| 22 11 16 00-0675 EA 1" Crimped Copper Reducing Tee.....                      | 90.83                     | 34.46                   |
| 22 11 16 00-0676 EA 1-1/4" Crimped Copper Reducing Tee.....                  | 97.34                     | 38.28                   |
| 22 11 16 00-0677 EA 1-1/2" Crimped Copper Reducing Tee.....                  | 134.22                    | 39.35                   |
| 22 11 16 00-0678 EA 2" Crimped Copper Reducing Tee.....                      | 162.13                    | 44.56                   |
| 22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee.....                  | 480.19                    | 50.53                   |
| 22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee.....                      | 585.98                    | 61.26                   |
| 22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee.....                      | 684.65                    | 81.62                   |
| <b>22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)</b>          |                           |                         |
| 22 11 16 00-0683 EA 1/2" Crimped Copper Coupling.....                        | 32.34                     | 18.38                   |
| 22 11 16 00-0684 EA 3/4" Crimped Copper Coupling.....                        | 38.63                     | 20.98                   |
| 22 11 16 00-0685 EA 1" Crimped Copper Coupling.....                          | 52.16                     | 24.96                   |
| 22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling.....                      | 59.54                     | 27.56                   |
| 22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling.....                      | 79.85                     | 30.63                   |
| 22 11 16 00-0688 EA 2" Crimped Copper Coupling.....                          | 98.41                     | 36.75                   |
| 22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling.....                      | 202.82                    | 42.87                   |
| 22 11 16 00-0690 EA 3" Crimped Copper Coupling.....                          | 252.96                    | 50.99                   |
| 22 11 16 00-0691 EA 4" Crimped Copper Coupling.....                          | 345.99                    | 67.38                   |
| <b>22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)</b> |                           |                         |
| 22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling.....               | 47.92                     | 17.46                   |
| 22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling.....                 | 54.78                     | 19.90                   |
| 22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling.....             | 71.89                     | 23.73                   |
| 22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling.....             | 92.69                     | 26.19                   |
| 22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling.....                 | 103.70                    | 29.09                   |
| 22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling.....     | 215.68                    | 34.76                   |
| 22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling.....         | 269.96                    | 40.88                   |
| 22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling.....         | 350.42                    | 54.06                   |
| <b>22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)</b>      |                           |                         |
| 22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter.....                    | 33.40                     | 18.38                   |
| 22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter.....                    | 41.98                     | 20.98                   |
| 22 11 16 00-0704 EA 1" Crimped Copper Male Adapter.....                      | 56.94                     | 24.96                   |
| 22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter.....                  | 83.90                     | 27.56                   |
| 22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter.....                  | 105.65                    | 30.63                   |
| 22 11 16 00-0707 EA 2" Crimped Copper Male Adapter.....                      | 170.11                    | 36.75                   |
| 22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter.....                  | 342.41                    | 42.87                   |
| 22 11 16 00-0709 EA 3" Crimped Copper Male Adapter.....                      | 426.45                    | 50.99                   |
| 22 11 16 00-0710 EA 4" Crimped Copper Male Adapter.....                      | 506.06                    | 67.38                   |
| <b>22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)</b>    |                           |                         |
| 22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter.....                  | 34.62                     | 18.38                   |
| 22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter.....                  | 42.88                     | 20.98                   |
| 22 11 16 00-0714 EA 1" Crimped Copper Female Adapter.....                    | 58.71                     | 24.96                   |
| 22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter.....                | 89.21                     | 27.56                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter.....   | 115.54                    | 30.63                   |
| 22 11 16 00-0717 EA 2" Crimped Copper Female Adapter.....   | 173.30                    | 36.75                   |
| <b>22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)</b>  |                           |                         |
| 22 11 16 00-0719 EA 1/2" Crimped Copper Cap.....  | 24.02                     | 9.19                    |
| 22 11 16 00-0720 EA 3/4" Crimped Copper Cap.....  | 33.38                     | 10.72                   |
| 22 11 16 00-0721 EA 1" Crimped Copper Cap.....  | 45.05                     | 12.25                   |
| 22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap.....  | 50.88                     | 13.78                   |
| 22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap.....  | 70.54                     | 15.77                   |
| 22 11 16 00-0724 EA 2" Crimped Copper Cap.....  | 84.43                     | 18.38                   |
| 22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap.....  | 214.00                    | 21.44                   |
| 22 11 16 00-0726 EA 3" Crimped Copper Cap.....  | 268.41                    | 25.57                   |
| 22 11 16 00-0727 EA 4" Crimped Copper Cap.....  | 357.20                    | 33.68                   |
| <b>22 11 16 00-0728 C x F NPT Crimped Bronze Unions (22 11 16 00-0642)</b>  |                           |                         |
| 22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union.....  | 67.55                     | 24.96                   |
| 22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union.....  | 84.59                     | 30.78                   |
| 22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union.....  | 119.23                    | 36.90                   |
| 22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union.....  | 144.92                    | 42.57                   |
| 22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union.....  | 189.66                    | 41.66                   |
| 22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union.....  | 258.86                    | 60.33                   |
| <b>22 11 16 00-0735 C x C Crimped Bronze Unions (22 11 16 00-0642)</b>  |                           |                         |
| 22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union.....  | 65.00                     | 18.38                   |
| 22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union.....  | 80.48                     | 20.98                   |
| 22 11 16 00-0738 EA 1" C x C Bronze Crimped Union.....  | 115.93                    | 24.96                   |
| 22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union.....  | 153.32                    | 27.56                   |
| 22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union.....  | 198.02                    | 30.63                   |
| 22 11 16 00-0741 EA 2" C x C Bronze Crimped Union.....  | 303.48                    | 36.75                   |
| <b>22 11 16 00-0742 C x Flange Crimped Bronze Flange (22 11 16 00-0642)</b>   |                           |                         |
| 22 11 16 00-0743 EA 2-1/2" C x Flange Crimped Bronze Flange.....  | 596.07                    | 42.87                   |
| 22 11 16 00-0744 EA 3" C x Flange Crimped Bronze Flange.....  | 648.92                    | 50.99                   |
| 22 11 16 00-0745 EA 4" C x Flange Crimped Bronze Flange.....  | 741.79                    | 67.38                   |
| <b>22 11 16 00-0746 Field Installed FKM Seals (22 11 16 00-0642)</b>  |                           |                         |
| Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal. |                           |                         |
| 22 11 16 00-0747 EA 1/2" Field Installed FKM Seal.....  | 9.90                      |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0748 EA 3/4" Field Installed FKM Seal.....  | 12.63                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0749 EA 1" Field Installed FKM Seal.....  | 14.50                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0750 EA 1-1/4" Field Installed FKM Seal.....  | 16.70                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0751 EA 1-1/2" Field Installed FKM Seal.....  | 23.89                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0752 EA 2" Field Installed FKM Seal.....  | 26.49                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0753 EA 2-1/2" Field Installed FKM Seal.....  | 40.28                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0754 EA 3" Field Installed FKM Seal.....  | 46.16                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| 22 11 16 00-0755 EA 4" Field Installed FKM Seal.....  | 63.06                     |                         |
| Note: To be used in conjunction with fittings.  |                           |                         |
| <b>22 11 16 00-0756 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)</b>  |                           |                         |
| 22 11 16 00-0757 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....  | 15.31                     |                         |
| 22 11 16 00-0758 EA 3/4", Cut And Prepare Existing In Place Copper Pipe.....  | 16.54                     |                         |
| 22 11 16 00-0759 EA 1", Cut And Prepare Existing In Place Copper Pipe.....  | 18.61                     |                         |
| 22 11 16 00-0760 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe.....  | 19.52                     |                         |
| 22 11 16 00-0761 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe.....  | 20.67                     |                         |
| 22 11 16 00-0762 EA 2", Cut And Prepare Existing In Place Copper Pipe.....  | 22.75                     |                         |
| 22 11 16 00-0763 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe.....  | 24.51                     |                         |
| 22 11 16 00-0764 EA 3", Cut And Prepare Existing In Place Copper Pipe.....  | 28.94                     |                         |
| 22 11 16 00-0765 EA 4", Cut And Prepare Existing In Place Copper Pipe.....  | 39.05                     |                         |
| 22 11 16 00-0766 EA 6", Cut And Prepare Existing In Place Copper Pipe.....  | 55.81                     |                         |
| 22 11 16 00-0767 EA 8", Cut And Prepare Existing In Place Copper Pipe.....  | 74.43                     |                         |
| <b>22 11 16 00-0768 Sweat Brass Companion Flanges (22 11 16 00-0368)</b>  |                           |                         |
| Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.                       |                           |                         |
| 22 11 16 00-0769 EA 1" Sweat Brass Companion Flange.....  | 82.80                     | 23.54                   |
| 22 11 16 00-0770 EA 1-1/4" Sweat Brass Companion Flange.....  | 90.40                     | 25.94                   |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-0771 EA 1-1/2" Sweat Brass Companion Flange .....                                       | 128.37                    | 28.20                   |
| 22 11 16 00-0772 EA 2" Sweat Brass Companion Flange .....   | 171.13                    | 31.29                   |
| 22 11 16 00-0773 EA 2-1/2" Sweat Brass Companion Flange .....                                       | 212.22                    | 37.64                   |
| 22 11 16 00-0774 EA 3" Sweat Brass Companion Flange .....   | 235.27                    | 49.34                   |
| 22 11 16 00-0775 EA 4" Sweat Brass Companion Flange .....   | 313.14                    | 58.79                   |
| 22 11 16 00-0776 EA 5" Sweat Brass Companion Flange .....   | 578.38                    | 65.67                   |
| 22 11 16 00-0777 EA 6" Sweat Brass Companion Flange .....   | 669.11                    | 95.41                   |
| 22 11 16 00-0778 EA 8" Copper Companion Flange.....   | 1,533.83                  | 136.10                  |
| <b>22 11 16 00-0779 Brass Compression Fittings</b> (22 11 16 00-0368)                               |                           |                         |
| <b>22 11 16 00-0780 Brass Compression Unions</b> (22 11 16 00-0779)                                 |                           |                         |
| 22 11 16 00-0781 EA 1/4" Brass Compression Union .....  | 25.88                     | 16.54                   |
| 22 11 16 00-0782 EA 3/8" Brass Compression Union .....  | 26.18                     | 16.54                   |
| 22 11 16 00-0783 EA 1/2" Brass Compression Union .....  | 27.09                     | 16.54                   |
| 22 11 16 00-0784 EA 5/8" Brass Compression Union .....  | 27.52                     | 16.54                   |
| 22 11 16 00-0785 EA 3/4" Brass Compression Union .....  | 35.67                     | 16.54                   |
| 22 11 16 00-0786 EA 3/8" x 1/4" Brass Compression Union .....                                       | 26.38                     | 16.54                   |
| 22 11 16 00-0787 EA 1/2" x 3/8" Brass Compression Union .....                                       | 27.16                     | 16.54                   |
| 22 11 16 00-0788 EA 5/8" x 3/8" Brass Compression Union .....                                       | 27.70                     | 16.54                   |
| 22 11 16 00-0789 EA 5/8" x 1/2" Brass Compression Union .....                                       | 28.57                     | 16.54                   |
| <b>22 11 16 00-0790 Brass Compression Union Elbows</b> (22 11 16 00-0779)                           |                           |                         |
| 22 11 16 00-0791 EA 1/4" Brass Compression Union Elbow .....  | 27.09                     | 16.54                   |
| 22 11 16 00-0792 EA 3/8" Brass Compression Union Elbow .....  | 27.58                     | 16.54                   |
| 22 11 16 00-0793 EA 1/2" Brass Compression Union Elbow .....  | 28.67                     | 16.54                   |
| 22 11 16 00-0794 EA 5/8" Brass Compression Union Elbow .....  | 30.35                     | 16.54                   |
| 22 11 16 00-0795 EA 3/4" Brass Compression Union Elbow .....  | 36.90                     | 16.54                   |
| 22 11 16 00-0796 EA 3/8" x 1/4" Brass Compression Union Elbow .....                                 | 27.58                     | 16.54                   |
| 22 11 16 00-0797 EA 1/2" x 3/8" Brass Compression Union Elbow .....                                 | 28.67                     | 16.54                   |
| 22 11 16 00-0798 EA 5/8" x 3/8" Brass Compression Union Elbow .....                                 | 28.97                     | 16.54                   |
| 22 11 16 00-0799 EA 5/8" x 1/2" Brass Compression Union Elbow .....                                 | 33.90                     | 16.54                   |
| <b>22 11 16 00-0800 Brass Compression Union Tees</b> (22 11 16 00-0779)                             |                           |                         |
| 22 11 16 00-0801 EA 1/4" Brass Compression Union Tee .....  | 27.46                     | 16.54                   |
| 22 11 16 00-0802 EA 3/8" Brass Compression Union Tee .....  | 28.49                     | 16.54                   |
| 22 11 16 00-0803 EA 1/2" Brass Compression Union Tee .....  | 29.57                     | 16.54                   |
| 22 11 16 00-0804 EA 5/8" Brass Compression Union Tee .....  | 32.99                     | 16.54                   |
| 22 11 16 00-0805 EA 3/4" Brass Compression Union Tee .....  | 44.83                     | 16.54                   |
| 22 11 16 00-0806 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee .....                            | 29.21                     | 16.54                   |
| 22 11 16 00-0807 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee .....                            | 34.77                     | 16.54                   |
| 22 11 16 00-0808 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee .....                            | 34.23                     | 16.54                   |
| 22 11 16 00-0809 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee .....                            | 34.86                     | 16.54                   |
| <b>22 11 16 00-0810 Brass Compression Male Connectors</b> (22 11 16 00-0779)                        |                           |                         |
| 22 11 16 00-0811 EA 1/4" Brass Compression Male Connector .....                                     | 25.66                     | 16.54                   |
| 22 11 16 00-0812 EA 3/8" Brass Compression Male Connector .....                                     | 26.06                     | 16.54                   |
| 22 11 16 00-0813 EA 1/2" Brass Compression Male Connector .....                                     | 26.74                     | 16.54                   |
| 22 11 16 00-0814 EA 5/8" Brass Compression Male Connector .....                                     | 27.77                     | 16.54                   |
| 22 11 16 00-0815 EA 3/4" Brass Compression Male Connector .....                                     | 32.39                     | 16.38                   |
| <b>22 11 16 00-0816 Brass Compression Female Connectors</b> (22 11 16 00-0779)                      |                           |                         |
| 22 11 16 00-0817 EA 1/4" Brass Compression Female Connector .....                                   | 26.09                     | 16.54                   |
| 22 11 16 00-0818 EA 3/8" Brass Compression Female Connector .....                                   | 26.61                     | 16.54                   |
| 22 11 16 00-0819 EA 1/2" Brass Compression Female Connector .....                                   | 27.48                     | 16.54                   |
| 22 11 16 00-0820 EA 5/8" Brass Compression Female Connector .....                                   | 27.98                     | 16.54                   |
| 22 11 16 00-0821 EA 3/4" Brass Compression Female Connector .....                                   | 39.94                     | 16.23                   |
| <b>22 11 16 00-0822 Dielectric Fittings</b> (22 11 16 00-0368)                                      |                           |                         |
| <b>22 11 16 00-0823 Copper x Female Iron Pipe Thread Dielectric Unions</b> (22 11 16 00-0822)       |                           |                         |
| 22 11 16 00-0824 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union .....                    | 62.43                     | 36.75                   |
| 22 11 16 00-0825 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union .....                    | 70.09                     | 41.96                   |
| 22 11 16 00-0826 EA 1" Copper x Female Iron Pipe Thread Dielectric Union .....                      | 81.78                     | 46.11                   |
| 22 11 16 00-0827 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union .....                  | 96.94                     | 50.75                   |
| 22 11 16 00-0828 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union .....                  | 115.09                    | 56.39                   |
| 22 11 16 00-0829 EA 2" Copper x Female Iron Pipe Thread Dielectric Union .....                      | 144.49                    | 67.68                   |
| <b>22 11 16 00-0830 Female Brass Thread x Iron Pipe Thread Dielectric Unions</b> (22 11 16 00-0822) |                           |                         |
| 22 11 16 00-0831 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....               | 67.04                     | 36.75                   |
| 22 11 16 00-0832 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....               | 77.68                     | 41.96                   |
| 22 11 16 00-0833 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....                 | 91.79                     | 46.11                   |
| 22 11 16 00-0834 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....             | 110.22                    | 50.75                   |



| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|--|------------------------|----------------------|
| 22 11 16 00-0835  | EA  |     | 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union .....     | 131.52                 | 56.39                |
| 22 11 16 00-0836  | EA  |     | 2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....          | 163.76                 | 67.68                |
| <b>22 11 16 00-0837 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)</b>           |     |     |  |                        |                      |
| 22 11 16 00-0838  | EA  |     | 1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....   | 64.12                  | 36.75                |
| 22 11 16 00-0839  | EA  |     | 3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....   | 72.86                  | 41.96                |
| 22 11 16 00-0840  | EA  |     | 1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....     | 82.51                  | 46.11                |
| 22 11 16 00-0841  | EA  |     | 1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union ..... | 94.37                  | 50.75                |
| 22 11 16 00-0842  | EA  |     | 1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union ..... | 112.55                 | 56.39                |
| 22 11 16 00-0843  | EA  |     | 2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....     | 142.45                 | 67.68                |
| <b>22 11 16 00-0844 Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)</b>                    |     |     |  |                        |                      |
| 22 11 16 00-0845  | EA  |     | 2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....           | 355.69                 | 173.97               |
| 22 11 16 00-0846  | EA  |     | 3" Copper x Female Iron Pipe Thread Dielectric Flange .....              | 445.81                 | 219.08               |
| 22 11 16 00-0847  | EA  |     | 4" Copper x Female Iron Pipe Thread Dielectric Flange.....               | 623.97                 | 298.17               |
| <b>22 11 16 00-0848 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)</b> |     |     |  |                        |                      |
| 22 11 16 00-0849  | EA  |     | 2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange..... | 357.57                 | 173.97               |
| 22 11 16 00-0850  | EA  |     | 3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange .....    | 460.93                 | 219.08               |
| 22 11 16 00-0851  | EA  |     | 4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....     | 798.32                 | 298.17               |
| <b>22 11 16 00-0852 Brass Push-Fit Fittings (22 11 16)</b>  |     |     |  |                        |                      |
| 22 11 16 00-0853  | EA  |     | 1/4" x 1/4" Brass Push-Fit Coupling .....                                | 31.08                  | 15.31                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0854  | EA  |     | 3/8" x 3/8" Brass Push-Fit Coupling .....                                | 37.83                  | 16.33                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0855  | EA  |     | 1/2" x 1/2" Brass Push-Fit Coupling .....                                | 39.61                  | 18.38                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0856  | EA  |     | 5/8" x 5/8" Brass Push-Fit Coupling .....                                | 45.17                  | 19.60                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0857  | EA  |     | 3/4" x 3/4" Brass Push-Fit Coupling .....                                | 46.30                  | 20.93                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0858  | EA  |     | 1" x 1" Brass Push-Fit Coupling.....                                     | 63.86                  | 25.01                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0859  | EA  |     | 1/2" x 3/8" Brass Push-Fit Reducing Coupling.....                        | 38.72                  | 17.35                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0860  | EA  |     | 3/4" x 5/8" Brass Push-Fit Reducing Coupling.....                        | 44.52                  | 18.99                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0861  | EA  |     | 1" x 3/4" Brass Push-Fit Reducing Coupling .....                         | 64.86                  | 22.97                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0862  | EA  |     | 1/4" x 1/4" Brass Push-Fit Elbow .....                                   | 32.25                  | 15.31                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0863  | EA  |     | 3/8" x 3/8" Brass Push-Fit Elbow .....                                   | 42.83                  | 16.33                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0864  | EA  |     | 1/2" x 1/2" Brass Push-Fit Elbow .....                                   | 40.25                  | 18.38                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0865  | EA  |     | 5/8" x 5/8" Brass Push-Fit Elbow .....                                   | 48.07                  | 19.60                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0866  | EA  |     | 3/4" x 3/4" Brass Push-Fit Elbow .....                                   | 45.47                  | 20.93                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0867  | EA  |     | 1" x 1" Brass Push-Fit Elbow .....                                       | 64.50                  | 25.01                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0868  | EA  |     | 1/2" x 3/8" Brass Push-Fit Reducing Elbow .....                          | 38.19                  | 17.35                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0869  | EA  |     | 3/4" x 1/2" Brass Push-Fit Reducing Elbow .....                          | 42.45                  | 18.99                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0870  | EA  |     | 1" x 3/4" Brass Push-Fit Reducing Elbow .....                            | 79.16                  | 22.97                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0871  | EA  |     | 1/4" x 1/4" x 1/4" Brass Push-Fit Tee .....                              | 48.86                  | 22.97                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0872  | EA  |     | 3/8" x 3/8" x 3/8" Brass Push-Fit Tee.....                               | 60.60                  | 24.50                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0873  | EA  |     | 1/2" x 1/2" x 1/2" Brass Push-Fit Tee.....                               | 56.91                  | 27.56                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0874  | EA  |     | 5/8" x 5/8" x 5/8" Brass Push-Fit Tee.....                               | 70.88                  | 29.40                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0875  | EA  |     | 3/4" x 3/4" x 3/4" Brass Push-Fit Tee.....                               | 66.17                  | 31.39                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0876  | EA  |     | 1" x 1" x 1" Brass Push-Fit Tee.....                                     | 88.98                  | 37.51                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0877  | EA  |     | 1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee.....                      | 62.52                  | 26.03                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0878  | EA  |     | 1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee.....                      | 62.97                  | 26.54                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0879  | EA  |     | 3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee.....                      | 63.84                  | 30.12                |
|   |     |     | Note: (Sharkbite)  |                        |                      |
| 22 11 16 00-0880  | EA  |     | 1" x 1" x 3/4" Brass Push-Fit Reducing Tee.....                          | 86.08                  | 35.48                |
|   |     |     | Note: (Sharkbite)  |                        |                      |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|------------------|-----|---|--|-------------------------|
| 22 11 16 00-0881 | EA  | 1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector.....<br>Note: (Sharkbite)   | 36.62  | 16.85                   |
| 22 11 16 00-0882 | EA  | 3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector.....<br>Note: (Sharkbite)   | 36.38  | 17.35                   |
| 22 11 16 00-0883 | EA  | 1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector.....<br>Note: (Sharkbite)   | 36.29  | 18.38                   |
| 22 11 16 00-0884 | EA  | 3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector.....<br>Note: (Sharkbite)   | 41.52  | 20.93                   |
| 22 11 16 00-0885 | EA  | 1" x 1" Brass Push-Fit Pipe To FNPT Connector.....<br>Note: (Sharkbite)   | 57.14  | 25.01                   |
| 22 11 16 00-0886 | EA  | 1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 32.61  | 16.85                   |
| 22 11 16 00-0887 | EA  | 3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 36.38  | 17.35                   |
| 22 11 16 00-0888 | EA  | 1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 36.37  | 18.38                   |
| 22 11 16 00-0889 | EA  | 3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 41.16  | 20.93                   |
| 22 11 16 00-0890 | EA  | 5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 44.05  | 20.25                   |
| 22 11 16 00-0891 | EA  | 1" x 3/4" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 52.49  | 22.97                   |
| 22 11 16 00-0892 | EA  | 1" x 1" Brass Push-Fit Pipe To MNPT Connector.....<br>Note: (Sharkbite)   | 57.88  | 25.01                   |
| 22 11 16 00-0893 | EA  | 1/2" Brass Push-Fit Ball Valve.....<br>Note: (Sharkbite)  | 50.15  | 18.38                   |
| 22 11 16 00-0894 | EA  | 3/4" Brass Push-Fit Ball Valve.....<br>Note: (Sharkbite)  | 58.49  | 20.93                   |
| 22 11 16 00-0895 | EA  | 1" Brass Push-Fit Ball Valve.....<br>Note: (Sharkbite)  | 76.53  | 25.01                   |
| 22 11 16 00-0896 | EA  | 1/2" Brass Push-Fit Check Valve.....<br>Note: (Sharkbite)   | 53.38  | 18.38                   |
| 22 11 16 00-0897 | EA  | 3/4" Brass Push-Fit Check Valve.....<br>Note: (Sharkbite)   | 63.93  | 20.93                   |
| 22 11 16 00-0898 | EA  | 1" Brass Push-Fit Check Valve.....<br>Note: (Sharkbite)   | 104.82   | 25.01                   |
| 22 11 16 00-0899 |     | <b>Copper Pipe With Fittings And Hangers Assemblies</b> <sup>(22 11 16)</sup><br>Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.  |  |                         |
| 22 11 16 00-0900 | LF  | 1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly.....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 29.94<br>2.00<br>-1.68<br>3.89<br>0.96<br>-2.69<br>7.19          | 4.29                    |
| 22 11 16 00-0901 | LF  | 3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly.....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 34.69<br>2.40<br>-1.99<br>4.45<br>1.09<br>-3.09<br>8.15          | 5.51                    |
| 22 11 16 00-0902 | LF  | 1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly.....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 38.33<br>2.86<br>-2.32<br>4.76<br>1.14<br>-3.34<br>8.54          | 6.58                    |
| 22 11 16 00-0903 | LF  | 1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly.....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> | 43.28<br>3.58<br>-2.83<br>5.12<br>1.18<br>-3.64<br>8.87<br>-1.37 | 7.66                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 22 11 16 00-0904 LF 1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> | 48.26<br><br>4.18<br>-3.27<br>5.57<br>1.26<br>-3.99<br>9.46<br>-1.67         | 8.73                    |
| 22 11 16 00-0905 LF 2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>     | 61.04<br><br>5.77<br>-4.42<br>6.68<br>1.45<br>-4.87<br>10.88<br>-2.48        | 10.88                   |
| 22 11 16 00-0906 LF 2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> | 75.19<br><br>7.88<br>-5.91<br>7.65<br>1.56<br>-5.70<br>11.67<br>-3.63        | 13.11                   |
| 22 11 16 00-0907 LF 3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>     | 91.67<br><br>10.32<br>-7.63<br>8.80<br>1.69<br>-6.69<br>12.64<br>-4.95       | 15.22                   |
| 22 11 16 00-0908 LF 4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>     | 143.25<br><br>17.66<br>-12.83<br>12.61<br>2.18<br>-9.89<br>16.34<br>-8.88    | 20.16                   |
| 22 11 16 00-0909 LF 5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>     | 255.25<br><br>35.12<br>-25.04<br>19.75<br>2.80<br>-16.26<br>20.98<br>-18.53  | 25.10                   |
| 22 11 16 00-0910 LF 6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>     | 333.65<br><br>46.25<br>-32.93<br>25.56<br>3.55<br>-21.12<br>26.64<br>-24.48  | 30.31                   |
| 22 11 16 00-0911 LF 8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly .....<br>Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.<br><i>For Type K Tubing Instead Of Type L, Add</i><br><i>For Type M Tubing Instead Of Type L, Deduct</i><br><i>For Silver Solder Instead Of 95/5 Solder, Add</i><br><i>For For Brazed Fittings, Add</i><br><i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>     | 725.78<br><br>111.74<br>-78.26<br>47.33<br>4.41<br>-41.81<br>33.11<br>-61.54 | 36.23                   |

- 22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16)  
Note: Socket weld.
- 22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)

|              |                                    |
|--------------|------------------------------------|
| <b>22</b>    | <b>Plumbing</b>                    |
| <b>22 10</b> | <b>Plumbing Piping</b>             |
| <b>22 11</b> | <b>Facility Water Distribution</b> |



| MINOR                   |     | TOTAL DIRECT   |                 | DEMOLITION |
|-------------------------|-----|--|-----------------|------------|
| CSI                     | UOM | DESCRIPTION  | UNIT COST       | UNIT COST  |
| <b>22 11 16 00-0914</b> |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe</b> <small>(22 11 16 00-0913)</small>                              |                 |            |
|                         | LF  | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>     | 8.87<br>1.69    | 2.25       |
|                         | LF  | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>     | 10.36<br>1.78   | 2.37       |
|                         | LF  | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>       | 12.89<br>1.91   | 2.55       |
|                         | LF  | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>   | 15.97<br>2.09   | 2.78       |
|                         | LF  | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>   | 18.58<br>2.31   | 3.08       |
|                         | LF  | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>       | 23.68<br>2.58   | 3.44       |
|                         | LF  | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>   | 32.85<br>2.93   | 3.90       |
|                         | LF  | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>       | 42.37<br>3.46   | 4.63       |
|                         | LF  | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>       | 59.42<br>4.26   | 5.68       |
|                         | LF  | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>       | 105.53<br>5.42  | 7.22       |
|                         | LF  | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe<br><i>For Work In Restricted Working Space, Add</i>       | 152.69<br>7.10  | 9.47       |
| <b>22 11 16 00-0926</b> |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows</b> <small>(22 11 16 00-0913)</small>                  |                 |            |
|                         | EA  | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>   | 31.86<br>8.04   | 10.72      |
|                         | EA  | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>   | 41.73<br>10.15  | 13.54      |
|                         | EA  | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 54.91<br>12.73  | 16.91      |
|                         | EA  | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i> | 77.02<br>15.90  | 21.15      |
|                         | EA  | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i> | 85.76<br>17.60  | 23.40      |
|                         | EA  | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 101.96<br>19.62 | 23.40      |
|                         | EA  | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i> | 169.64<br>22.33 | 29.74      |
|                         | EA  | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 191.41<br>26.39 | 35.25      |
|                         | EA  | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 280.78<br>32.48 | 43.28      |
|                         | EA  | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 353.83<br>41.28 | 54.98      |
|                         | EA  | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 709.68<br>54.14 | 72.18      |
| <b>22 11 16 00-0938</b> |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows</b> <small>(22 11 16 00-0913)</small>                  |                 |            |
|                         | EA  | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>   | 34.39<br>8.04   | 10.72      |
|                         | EA  | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>   | 44.76<br>10.15  | 13.54      |
|                         | EA  | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 59.84<br>12.73  | 16.91      |
|                         | EA  | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i> | 83.49<br>15.90  | 21.15      |
|                         | EA  | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i> | 93.65<br>17.60  | 23.40      |
|                         | EA  | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 104.64<br>19.62 | 26.23      |
|                         | EA  | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i> | 171.33<br>22.33 | 29.74      |
|                         | EA  | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 191.20<br>26.39 | 35.25      |
|                         | EA  | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 249.88<br>32.48 | 43.28      |
|                         | EA  | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 411.78<br>41.28 | 54.98      |
|                         | EA  | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>     | 750.73<br>54.14 | 72.18      |
| <b>22 11 16 00-0950</b> |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees</b> <small>(22 11 16 00-0913)</small>                              |                 |            |
|                         | EA  | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>               | 49.41<br>12.05  | 16.07      |
|                         | EA  | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>               | 65.47<br>15.23  | 20.30      |
|                         | EA  | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>                 | 81.82<br>19.12  | 25.52      |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 22 11 16 00-0954        | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 117.67<br>23.85        | 31.86                |
| 22 11 16 00-0955        | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 131.70<br>26.39        | 35.25                |
| 22 11 16 00-0956        | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 163.35<br>29.44        | 39.20                |
| 22 11 16 00-0957        | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 218.81<br>33.50        | 44.69                |
| 22 11 16 00-0958        | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 248.55<br>39.59        | 52.72                |
| 22 11 16 00-0959        | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 300.14<br>48.72        | 64.99                |
| 22 11 16 00-0960        | EA  |     | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 475.51<br>61.92        | 82.62                |
| 22 11 16 00-0961        | EA  |     | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee<br><i>For Work In Restricted Working Space, Add</i>   | 1,041.14<br>81.20      | 108.27               |
| <b>22 11 16 00-0962</b> |     |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses</b> <small>(22 11 16 00-0913)</small>   |                        |                      |
| 22 11 16 00-0963        | EA  |     | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 61.52<br>16.07         | 21.43                |
| 22 11 16 00-0964        | EA  |     | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 80.36<br>20.30         | 27.07                |
| 22 11 16 00-0965        | EA  |     | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 100.46<br>25.46        | 33.98                |
| 22 11 16 00-0966        | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 138.89<br>31.81        | 42.44                |
| 22 11 16 00-0967        | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 154.97<br>35.19        | 46.95                |
| 22 11 16 00-0968        | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 187.01<br>39.25        | 52.30                |
| 22 11 16 00-0969        | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 241.17<br>44.66        | 59.49                |
| 22 11 16 00-0970        | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 276.37<br>52.79        | 70.35                |
| 22 11 16 00-0971        | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 335.18<br>64.97        | 86.56                |
| 22 11 16 00-0972        | EA  |     | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 507.00<br>82.56        | 110.11               |
| 22 11 16 00-0973        | EA  |     | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross<br><i>For Work In Restricted Working Space, Add</i>   | 1,024.53<br>108.27     | 144.36               |
| <b>22 11 16 00-0974</b> |     |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts</b> <small>(22 11 16 00-0913)</small>  |                        |                      |
| 22 11 16 00-0975        | EA  |     | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 27.85<br>7.45          | 9.86                 |
| 22 11 16 00-0976        | EA  |     | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 39.34<br>10.03         | 13.39                |
| 22 11 16 00-0977        | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>                                       | 70.74<br>13.11         | 17.48                |
| 22 11 16 00-0978        | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>                                       | 80.26<br>14.51         | 19.32                |
| 22 11 16 00-0979        | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 95.90<br>16.20         | 21.57                |
| 22 11 16 00-0980        | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>                                       | 103.37<br>18.44        | 24.53                |
| 22 11 16 00-0981        | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 126.26<br>21.78        | 29.04                |
| 22 11 16 00-0982        | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 175.37<br>26.82        | 35.67                |
| 22 11 16 00-0983        | EA  |     | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 296.64<br>34.05        | 45.39                |
| 22 11 16 00-0984        | EA  |     | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 699.93<br>44.66        | 59.49                |
| <b>22 11 16 00-0985</b> |     |     | <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts</b> <small>(22 11 16 00-0913)</small>                    |                        |                      |
| 22 11 16 00-0986        | EA  |     | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 37.48<br>5.29          | 7.05                 |
| 22 11 16 00-0987        | EA  |     | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>   | 46.23<br>7.45          | 9.86                 |
| 22 11 16 00-0988        | EA  |     | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert<br><i>For Work In Restricted Working Space, Add</i>     | 56.37<br>10.03         | 13.39                |
| 22 11 16 00-0989        | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert<br><i>For Work In Restricted Working Space, Add</i> | 69.26<br>13.11         | 17.48                |
| 22 11 16 00-0990        | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert<br><i>For Work In Restricted Working Space, Add</i> | 82.44<br>14.51         | 19.32                |



| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|---|------------------------|----------------------|
| 22 11 16 00-0991   | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....     | 106.74                 | 21.57                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.20                  |                      |
| 22 11 16 00-0992   | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... | 174.21                 | 24.53                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 18.44                  |                      |
| 22 11 16 00-0993   | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....     | 367.07                 | 29.04                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 21.78                  |                      |
| 22 11 16 00-0994   | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....     | 553.49                 | 35.67                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.82                  |                      |
| <b>22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0913)</b>     |     |     |   |                        |                      |
| 22 11 16 00-0996   | EA  |     | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....                 | 25.22                  | 7.05                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.29                   |                      |
| 22 11 16 00-0997   | EA  |     | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....                 | 35.10                  | 9.86                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 7.45                   |                      |
| 22 11 16 00-0998   | EA  |     | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....                   | 50.74                  | 13.39                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 10.03                  |                      |
| 22 11 16 00-0999   | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....               | 69.26                  | 17.48                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 13.11                  |                      |
| 22 11 16 00-1000   | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....               | 82.94                  | 19.32                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 14.51                  |                      |
| 22 11 16 00-1001   | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....                   | 100.76                 | 21.57                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.20                  |                      |
| 22 11 16 00-1002   | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....               | 149.98                 | 24.53                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 18.44                  |                      |
| 22 11 16 00-1003   | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....                   | 179.63                 | 29.04                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 21.78                  |                      |
| 22 11 16 00-1004   | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....                   | 270.35                 | 35.67                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.82                  |                      |
| <b>22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0913)</b> |     |     |   |                        |                      |
| 22 11 16 00-1006   | EA  |     | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....            | 28.12                  | 7.05                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.29                   |                      |
| 22 11 16 00-1007   | EA  |     | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....            | 36.02                  | 9.86                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 7.45                   |                      |
| 22 11 16 00-1008   | EA  |     | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....              | 50.98                  | 13.39                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 10.03                  |                      |
| 22 11 16 00-1009   | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....          | 70.11                  | 17.48                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 13.11                  |                      |
| 22 11 16 00-1010   | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....          | 79.06                  | 19.32                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 14.51                  |                      |
| 22 11 16 00-1011   | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....              | 97.59                  | 21.57                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.20                  |                      |
| 22 11 16 00-1012   | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....          | 151.82                 | 24.53                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 18.44                  |                      |
| 22 11 16 00-1013   | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....              | 211.60                 | 29.04                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 21.78                  |                      |
| 22 11 16 00-1014   | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters .....              | 324.71                 | 35.67                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.82                  |                      |
| <b>22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)</b>                                   |     |     |   |                        |                      |
| 22 11 16 00-1016   | EA  |     | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 22.55                  | 6.49                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.82                   |                      |
| 22 11 16 00-1017   | EA  |     | 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 31.71                  | 9.02                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.77                   |                      |
| 22 11 16 00-1018   | EA  |     | 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 42.64                  | 12.13                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 9.09                   |                      |
| 22 11 16 00-1019   | EA  |     | 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 58.14                  | 15.93                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 11.93                  |                      |
| 22 11 16 00-1020   | EA  |     | 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 67.15                  | 17.62                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 13.19                  |                      |
| 22 11 16 00-1021   | EA  |     | 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 75.96                  | 19.60                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 14.72                  |                      |
| 22 11 16 00-1022   | EA  |     | 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 120.33                 | 22.27                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.75                  |                      |
| 22 11 16 00-1023   | EA  |     | 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 131.12                 | 26.37                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 19.79                  |                      |
| 22 11 16 00-1024   | EA  |     | 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 166.54                 | 32.43                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 24.36                  |                      |
| 22 11 16 00-1025   | EA  |     | 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 271.56                 | 41.31                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 30.96                  |                      |
| 22 11 16 00-1026   | EA  |     | 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....   | 476.50                 | 54.14                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 40.60                  |                      |
| <b>22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)</b>                                      |     |     |   |                        |                      |
| 22 11 16 00-1028   | EA  |     | 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....  | 46.92                  | 7.75                 |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.80                   |                      |



|                                    |  |              |
|------------------------------------|--|--------------|
| <b>Plumbing</b>                    |  | <b>22</b>    |
| <b>Plumbing Piping</b>             |  | <b>22 10</b> |
| <b>Facility Water Distribution</b> |  | <b>22 11</b> |

| MINOR   | TOTAL DIRECT      | DEMOLITION |
|---|-------------------|------------|
| CSI UOM DESCRIPTION   | UNIT COST         | UNIT COST  |
| 22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>           | 56.01<br>8.12     | 10.86      |
| 22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>             | 66.23<br>10.91    | 14.52      |
| 22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>         | 117.86<br>14.30   | 19.04      |
| 22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>         | 124.19<br>15.82   | 21.15      |
| 22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>             | 177.51<br>17.68   | 23.54      |
| 22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>         | 312.84<br>20.09   | 26.79      |
| 22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>             | 450.81<br>23.77   | 31.72      |
| 22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>             | 729.10<br>29.23   | 38.91      |
| 22 11 16 00-1037 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>             | 976.91<br>37.13   | 49.48      |
| 22 11 16 00-1038 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions .....<br><i>For Work In Restricted Working Space, Add</i>             | 1,204.53<br>48.72 | 64.99      |
| <b>22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)</b>   |                   |            |
| 22 11 16 00-1040 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>              | 20.27<br>3.02     | 6.63       |
| 22 11 16 00-1041 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>              | 27.19<br>3.81     | 8.32       |
| 22 11 16 00-1042 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 41.55<br>4.78     | 10.43      |
| 22 11 16 00-1043 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>            | 47.98<br>5.96     | 7.89       |
| 22 11 16 00-1044 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>            | 50.65<br>6.60     | 8.74       |
| 22 11 16 00-1045 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 70.67<br>7.36     | 9.86       |
| 22 11 16 00-1046 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>            | 111.00<br>8.37    | 11.14      |
| 22 11 16 00-1047 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 117.98<br>9.90    | 13.25      |
| 22 11 16 00-1048 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 183.97<br>12.18   | 16.21      |
| 22 11 16 00-1049 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 408.31<br>15.48   | 20.58      |
| 22 11 16 00-1050 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 525.72<br>20.30   | 27.07      |
| <b>22 11 16 00-1051 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0913)</b>   |                   |            |
| 22 11 16 00-1052 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>   | 37.48<br>3.85     | 5.08       |
| 22 11 16 00-1053 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>   | 44.46<br>5.42     | 7.19       |
| 22 11 16 00-1054 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>     | 53.67<br>7.27     | 9.72       |
| 22 11 16 00-1055 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i> | 62.14<br>9.56     | 12.69      |
| 22 11 16 00-1056 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i> | 66.23<br>10.58    | 14.10      |
| 22 11 16 00-1057 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>     | 80.40<br>11.76    | 15.65      |
| 22 11 16 00-1058 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i> | 108.99<br>13.41   | 17.91      |
| 22 11 16 00-1059 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>     | 122.85<br>15.82   | 21.15      |
| 22 11 16 00-1060 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>     | 153.85<br>19.50   | 25.94      |
| 22 11 16 00-1061 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>     | 222.32<br>24.79   | 32.99      |
| 22 11 16 00-1062 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>     | 423.44<br>32.48   | 43.28      |
| <b>22 11 16 00-1063 Cross-Linked Polyethylene Tubing, ASTM F877 (22 11 16)</b><br>Note: Aboveground, domestic water usage.                            |                   |            |
| <b>22 11 16 00-1064 Cross-Linked Polyethylene Tubing (22 11 16 00-1063)</b>   |                   |            |
| 22 11 16 00-1065 LF 3/8" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing .....<br><i>For Work In Restricted Working Space, Add</i>               | 6.55<br>1.33      |            |
| 22 11 16 00-1066 LF 1/2" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing .....<br><i>For Work In Restricted Working Space, Add</i>               | 7.15<br>1.44      |            |
| 22 11 16 00-1067 LF 3/4" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing .....<br><i>For Work In Restricted Working Space, Add</i>               | 9.49<br>1.55      |            |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 16 00-1068 LF 1" Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing<br><i>For Work In Restricted Working Space, Add</i>                  | 12.86<br>1.64             |                         |
| <b>22 11 16 00-1069 Cross-Linked Polyethylene Forged Brass PEX Fittings</b> (22 11 16 00-1063)<br>Note: Aboveground, domestic water usage.      |                           |                         |
| <b>22 11 16 00-1070 Male Adapters</b> (22 11 16 00-1069)  |                           |                         |
| 22 11 16 00-1071 EA 3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>   | 28.69<br>6.89             |                         |
| 22 11 16 00-1072 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>   | 30.89<br>7.35             |                         |
| 22 11 16 00-1073 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>   | 33.76<br>7.81             |                         |
| 22 11 16 00-1074 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>   | 35.29<br>8.27             |                         |
| 22 11 16 00-1075 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>   | 33.76<br>7.81             |                         |
| 22 11 16 00-1076 EA 1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>       | 44.25<br>9.19             |                         |
| <b>22 11 16 00-1077 Female Adapters</b> (22 11 16 00-1069)  |                           |                         |
| 22 11 16 00-1078 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i> | 31.56<br>7.35             |                         |
| 22 11 16 00-1079 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i> | 35.60<br>7.81             |                         |
| 22 11 16 00-1080 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i> | 37.13<br>8.27             |                         |
| 22 11 16 00-1081 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i> | 35.60<br>7.81             |                         |
| 22 11 16 00-1082 EA 1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>     | 45.08<br>9.19             |                         |
| <b>22 11 16 00-1083 Tube Adapters</b> (22 11 16 00-1069)  |                           |                         |
| 22 11 16 00-1084 EA 3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                    | 25.98<br>6.89             |                         |
| 22 11 16 00-1085 EA 1/2" Forged Brass Tube Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                           | 27.51<br>7.35             |                         |
| 22 11 16 00-1086 EA 3/4" Forged Brass Tube Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                           | 33.12<br>8.27             |                         |
| 22 11 16 00-1087 EA 1" Forged Brass Tube Adapter For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                             | 42.54<br>9.19             |                         |
| <b>22 11 16 00-1088 Plugs</b> (22 11 16 00-1069)  |                           |                         |
| 22 11 16 00-1089 EA 3/8" Forged Brass Plug For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                   | 13.06<br>3.22             |                         |
| 22 11 16 00-1090 EA 1/2" Forged Brass Plug For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                   | 14.59<br>3.68             |                         |
| 22 11 16 00-1091 EA 3/4" Forged Brass Plug For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                   | 16.79<br>4.13             |                         |
| 22 11 16 00-1092 EA 1" Forged Brass Plug For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                     | 20.87<br>4.59             |                         |
| <b>22 11 16 00-1093 Tees</b> (22 11 16 00-1069)   |                           |                         |
| 22 11 16 00-1094 EA 3/8" Forged Brass Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                    | 37.05<br>9.65             |                         |
| 22 11 16 00-1095 EA 1/2" Forged Brass Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                    | 41.64<br>11.03            |                         |
| 22 11 16 00-1096 EA 3/4" Forged Brass Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                    | 49.57<br>12.40            |                         |
| 22 11 16 00-1097 EA 1" Forged Brass Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                      | 63.57<br>13.78            |                         |
| 22 11 16 00-1098 EA 1/2" Forged Brass Reducing Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                           | 40.11<br>10.57            |                         |
| 22 11 16 00-1099 EA 3/4" Forged Brass Reducing Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                           | 46.51<br>11.48            |                         |
| 22 11 16 00-1100 EA 1" Forged Brass Reducing Tee For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                             | 57.63<br>12.40            |                         |
| <b>22 11 16 00-1101 Couplings</b> (22 11 16 00-1069)  |                           |                         |
| 22 11 16 00-1102 EA 3/8" Forged Brass Coupling For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                               | 23.95<br>6.43             |                         |
| 22 11 16 00-1103 EA 1/2" Forged Brass Coupling For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                               | 27.17<br>7.35             |                         |
| 22 11 16 00-1104 EA 3/4" Forged Brass Coupling For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                               | 31.07<br>8.27             |                         |
| 22 11 16 00-1105 EA 1" Forged Brass Coupling For PEX Tubing<br><i>For Work In Restricted Working Space, Add</i>                                 | 38.02<br>9.19             |                         |



|  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|---|------------------------|----------------------|
|  |       |     |     | 22 11 16 00-1106 EA 3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing .....29.54<br><i>For Work In Restricted Working Space, Add</i> ..... 7.81                             |                        |                      |
|  |       |     |     | 22 11 16 00-1107 EA 1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing .....36.48<br><i>For Work In Restricted Working Space, Add</i> ..... 8.73                               |                        |                      |
|  |       |     |     | <b>22 11 16 00-1108 Fitting Reducers</b> (22 11 16 00-1069)   |                        |                      |
|  |       |     |     | 22 11 16 00-1109 EA 3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing .....26.48<br><i>For Work In Restricted Working Space, Add</i> ..... 6.89                               |                        |                      |
|  |       |     |     | 22 11 16 00-1110 EA 1/2" Forged Brass Fitting Reducer For PEX Tubing .....28.01<br><i>For Work In Restricted Working Space, Add</i> ..... 7.35                                      |                        |                      |
|  |       |     |     | 22 11 16 00-1111 EA 3/4" Forged Brass Fitting Reducer For PEX Tubing .....34.12<br><i>For Work In Restricted Working Space, Add</i> ..... 8.27                                      |                        |                      |
|  |       |     |     | 22 11 16 00-1112 EA 1" Forged Brass Fitting Reducer For PEX Tubing .....48.26<br><i>For Work In Restricted Working Space, Add</i> ..... 9.19  |                        |                      |
|  |       |     |     | <b>22 11 16 00-1113 90 Degree Elbows</b> (22 11 16 00-1069)   |                        |                      |
|  |       |     |     | 22 11 16 00-1114 EA 3/8" Forged Brass 90 Degree Elbow For PEX Tubing .....25.45<br><i>For Work In Restricted Working Space, Add</i> ..... 6.43                                      |                        |                      |
|  |       |     |     | 22 11 16 00-1115 EA 1/2" Forged Brass 90 Degree Elbow For PEX Tubing .....28.51<br><i>For Work In Restricted Working Space, Add</i> ..... 7.35                                      |                        |                      |
|  |       |     |     | 22 11 16 00-1116 EA 3/4" Forged Brass 90 Degree Elbow For PEX Tubing .....34.12<br><i>For Work In Restricted Working Space, Add</i> ..... 8.27                                      |                        |                      |
|  |       |     |     | 22 11 16 00-1117 EA 3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing .....32.59<br><i>For Work In Restricted Working Space, Add</i> ..... 7.81                               |                        |                      |
|  |       |     |     | 22 11 16 00-1118 EA 1/2" Drop 90 Degree Elbow For PEX Tubing .....38.95<br><i>For Work In Restricted Working Space, Add</i> ..... 7.35  |                        |                      |
|  |       |     |     | 22 11 16 00-1119 EA 3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing .....43.52<br><i>For Work In Restricted Working Space, Add</i> ..... 8.27                                 |                        |                      |
|  |       |     |     | 22 11 16 00-1120 EA 3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing .....41.99<br><i>For Work In Restricted Working Space, Add</i> ..... 7.81                          |                        |                      |
|  |       |     |     | <b>22 11 19 Domestic Water Piping Specialties</b> (22 11)   |                        |                      |
|  |       |     |     | 22 11 19 00-0001 Rubber Hose And Clamps (22 11 19)  |                        |                      |
|  |       |     |     | 22 11 19 00-0002 General Purpose Hose (22 11 19 00-0001)<br>Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.         |                        |                      |
|  |       |     | LF  | 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp..... 9.96  |                        | 3.05                 |
|  |       |     | LF  | 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp..... 11.71   |                        | 3.05                 |
|  |       |     | LF  | 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp..... 14.30   |                        | 3.05                 |
|  |       |     | LF  | 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp..... 14.43   |                        | 3.05                 |
|  |       |     | LF  | 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp..... 19.67   |                        | 4.58                 |
|  |       |     | LF  | 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp ..... 32.52  |                        | 4.58                 |
|  |       |     | LF  | 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp ..... 35.37  |                        | 6.10                 |
|  |       |     | LF  | 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp..... 67.74   |                        | 6.10                 |
|  |       |     |     | <b>22 11 19 00-0011 Reinforced EPDM Water Hose Assembly</b> (22 11 19 00-0001)<br>Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement. |                        |                      |
|  |       |     | LF  | 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement..... 89.90                   |                        | 6.10                 |
|  |       |     | LF  | 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement..... 106.07                      |                        | 6.10                 |
|  |       |     | LF  | 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement..... 149.12                      |                        | 7.50                 |
|  |       |     | LF  | 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement..... 209.46                      |                        | 10.14                |
|  |       |     |     | <b>22 11 19 00-0016 Chemical Resistant Rubber Hoses</b> (22 11 19 00-0001)  |                        |                      |
|  |       |     | EA  | 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose ..... 1,439.44  |                        | 346.60               |
|  |       |     | EA  | 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose ..... 1,928.35  |                        | 346.60               |
|  |       |     |     | <b>22 11 19 00-0019 Water Pump Hose</b> (22 11 19 00-0001)  |                        |                      |
|  |       |     | EA  | 2" Inside Diameter, 20' Rubber Discharge Hose..... 767.30   |                        | 93.19                |
|  |       |     | EA  | 2" Inside Diameter, 20' Rubber Intake Hose ..... 812.24   |                        | 93.19                |
|  |       |     |     | <b>22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling</b> (22 11 19 00-0001)   |                        |                      |
|  |       |     | EA  | 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling ..... 36.71  |                        | 12.81                |
|  |       |     | EA  | 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling ..... 39.02  |                        | 13.73                |
|  |       |     | EA  | 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling ..... 41.75  |                        | 14.64                |
|  |       |     | EA  | 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling ..... 47.39  |                        | 16.47                |
|  |       |     | EA  | 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling ..... 56.91  |                        | 20.14                |
|  |       |     | EA  | 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling..... 67.61   |                        | 24.10                |
|  |       |     | EA  | 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling..... 87.45   |                        | 31.72                |
|  |       |     | EA  | 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling ..... 109.94   |                        | 39.65                |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |  |                    |        |
|------------------|--|--------------------|--------|
| 22 11 19 00-0031 | Worm-Drive Hose Clamp <small>(22 11 19 00-0001)</small>  |                    |        |
| 22 11 19 00-0032 | EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....  | 16.68              | 4.58   |
| 22 11 19 00-0033 | EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....  | 17.62              | 4.58   |
| 22 11 19 00-0034 | EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....  | 18.61              | 4.58   |
| 22 11 19 00-0035 | EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....  | 19.80              | 4.58   |
| 22 11 19 00-0036 | EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....  | 21.13              | 4.58   |
| 22 11 19 00-0037 | EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....  | 22.94              | 6.10   |
| 22 11 19 00-0038 | EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....  | 24.72              | 6.10   |
| 22 11 19 00-0039 | Trap Primer And Accessories <small>(22 11 19)</small>  |                    |        |
| 22 11 19 00-0040 | Trap Primer <small>(22 11 19 00-0039)</small>  |                    |        |
| 22 11 19 00-0041 | EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....  | 332.59             | 22.97  |
| 22 11 19 00-0042 | EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....  | 204.70             | 15.31  |
| 22 11 19 00-0043 | EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....   | 198.52             | 15.31  |
| 22 11 19 00-0044 | Trap Primer Distribution Unit <small>(22 11 19 00-0039)</small>  |                    |        |
| 22 11 19 00-0045 | EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U).....<br>Note: Can be used for two, three or four drains. | 182.12             | 30.63  |
| 22 11 19 00-0046 | EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4).....<br>Note: Can be used for two, three or four drains.         | 198.74             | 30.63  |
| 22 11 19 00-0047 | Trap Primer Manifold <small>(22 11 19 00-0039)</small>   |                    |        |
| 22 11 19 00-0048 | EA Two Outlet Trap Primer Manifold.....  | 268.42             | 41.19  |
| 22 11 19 00-0049 | EA Four Outlet Trap Primer Manifold.....   | 401.66             | 46.86  |
| 22 11 19 00-0050 | EA Six Outlet Trap Primer Manifold.....  | 531.01             | 49.62  |
| 22 11 19 00-0051 | EA Eight Outlet Trap Primer Manifold.....  | 666.76             | 58.19  |
| 22 11 19 00-0052 | Sewage Air Release Valves <small>(22 11 19)</small>  |                    |        |
| 22 11 19 00-0053 | Cast Iron, Sewage Air Release Valves <small>(22 11 19 00-0052)</small><br>Note: Stainless steel float.                           |                    |        |
| 22 11 19 00-0054 | EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....<br><i>For Back Flush Attachment, Add</i>                   | 981.15<br>650.00   | 55.91  |
| 22 11 19 00-0055 | EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....<br><i>For Back Flush Attachment, Add</i>                   | 1,216.62<br>650.00 | 93.44  |
| 22 11 19 00-0056 | EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....<br><i>For Back Flush Attachment, Add</i>                   | 1,542.48<br>650.00 | 117.95 |
| 22 11 19 00-0057 | Cast Iron, Sewage Air Vacuum Valves <small>(22 11 19 00-0052)</small><br>Note: Stainless steel float.                            |                    |        |
| 22 11 19 00-0058 | EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401).....<br><i>For Back Flush Attachment, Add</i>                      | 1,001.85<br>650.00 | 55.91  |
| 22 11 19 00-0059 | EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402).....<br><i>For Back Flush Attachment, Add</i>                      | 1,938.45<br>650.00 | 55.91  |
| 22 11 19 00-0060 | EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403).....<br><i>For Back Flush Attachment, Add</i>                      | 2,339.50<br>650.00 | 93.44  |
| 22 11 19 00-0061 | EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....   | 3,454.49           | 117.95 |
| 22 11 19 00-0062 | Cast Iron, Sewage Combination Air Valves <small>(22 11 19 00-0052)</small><br>Note: Stainless steel float.                       |                    |        |
| 22 11 19 00-0063 | EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....   | 2,109.22           | 55.91  |
| 22 11 19 00-0064 | EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....   | 2,898.34           | 55.91  |
| 22 11 19 00-0065 | EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....   | 3,405.47           | 93.44  |
| 22 11 19 00-0066 | EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....   | 4,166.00           | 117.95 |
| 22 11 19 00-0067 | Brass, Anti Siphon Vacuum Breakers <small>(22 11 19)</small><br>Note: Watts 288A   |                    |        |
| 22 11 19 00-0068 | EA 1/2" Brass, Anti Siphon Vacuum Breaker.....   | 129.17             | 38.28  |
| 22 11 19 00-0069 | EA 3/4" Brass, Anti Siphon Vacuum Breaker.....   | 147.87             | 42.87  |
| 22 11 19 00-0070 | EA 1" Brass, Anti Siphon Vacuum Breaker.....   | 288.45             | 49.00  |
| 22 11 19 00-0071 | EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....   | 450.91             | 56.66  |
| 22 11 19 00-0072 | EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....   | 538.03             | 62.79  |
| 22 11 19 00-0073 | EA 2" Brass, Anti Siphon Vacuum Breaker.....   | 781.23             | 76.57  |
| 22 11 19 00-0074 | EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....   | 2,009.84           | 95.71  |
| 22 11 19 00-0075 | Anti Siphon Pressure Vacuum Breakers <small>(22 11 19)</small><br>Note: Watts 800M4QT  |                    |        |
| 22 11 19 00-0076 | EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....  | 351.97             | 38.28  |
| 22 11 19 00-0077 | EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....  | 311.04             | 42.87  |
| 22 11 19 00-0078 | EA 1" Anti Siphon Pressure Type Vacuum Breaker.....  | 440.00             | 49.00  |
| 22 11 19 00-0079 | EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....  | 784.32             | 56.66  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker .....  | 954.10                    | 62.79                   |
| 22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker .....  | 967.60                    | 76.57                   |
| <b>22 11 19 00-0082 Bellows Type Water Hammer Arrestors (22 11 19)</b>   |                           |                         |
| 22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5005).....             | 172.54                    | 18.31                   |
| 22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5010).....              | 321.39                    | 22.15                   |
| 22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5020).....              | 458.06                    | 22.15                   |
| 22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5030).....             | 1,081.98                  | 22.15                   |
| 22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5040).....            | 1,212.15                  | 22.15                   |
| 22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5050).....            | 1,479.78                  | 22.15                   |
| <b>22 11 19 00-0089 Piston Type Water Hammer Arrestors (22 11 19)</b>  |                           |                         |
| <b>22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0089)</b>   |                           |                         |
| 22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....      | 190.77                    | 10.21                   |
| 22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....     | 364.24                    | 11.77                   |
| 22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....       | 540.01                    | 12.76                   |
| 22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....  | 1,324.33                  | 16.47                   |
| 22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E)..... | 1,613.08                  | 20.42                   |
| 22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....     | 1,835.27                  | 22.15                   |
| <b>22 11 19 00-0097 Wall Hydrants (22 11 19)</b>   |                           |                         |
| Note: Female inlet connection, 3/4" hose thread outlet.  |                           |                         |
| <b>22 11 19 00-0098 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0097)</b>                           |                           |                         |
| Note: 3/4" HPT outlet, 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.  |                           |                         |
| 22 11 19 00-0099 EA 6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....                               | 1,069.34                  | 38.28                   |
| For Cast Bronze Box, Add   | 54.58                     |                         |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0100 EA 12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....                              | 1,127.02                  | 45.94                   |
| For Cast Bronze Box, Add   | 54.58                     |                         |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0101 EA 18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....                              | 1,158.39                  | 55.28                   |
| For Cast Bronze Box, Add   | 54.58                     |                         |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| <b>22 11 19 00-0102 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0097)</b>                                       |                           |                         |
| Note: 3/4" HPT outlet, 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.  |                           |                         |
| 22 11 19 00-0103 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant .....   | 1,076.02                  | 64.31                   |
| For Cast Bronze Box, Add   | 54.58                     |                         |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| <b>22 11 19 00-0104 Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0097)</b>   |                           |                         |
| Note: 3/4" HPT outlet, 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.  |                           |                         |
| 22 11 19 00-0105 EA 3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                      | 580.68                    | 47.47                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0106 EA 4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                      | 718.89                    | 47.47                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0107 EA 6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                      | 718.89                    | 47.47                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0108 EA 8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                      | 718.89                    | 47.47                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0109 EA 10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                     | 751.05                    | 95.71                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0110 EA 12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                     | 751.05                    | 95.71                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| 22 11 19 00-0111 EA 18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....                                     | 847.26                    | 95.71                   |
| For 1" NPT Outlet, Add   | 128.65                    |                         |
| <b>22 11 19 00-0112 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0097)</b>  |                           |                         |
| Note: With 3/4" NPT female and 3/4" NPT male inlet connection.   |                           |                         |
| 22 11 19 00-0113 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....   | 533.06                    | 38.28                   |
| 22 11 19 00-0114 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....                                       | 581.28                    | 38.28                   |
| 22 11 19 00-0115 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....  | 587.85                    | 38.28                   |

**22 Plumbing****22 10 Plumbing Piping****22 11 Facility Water Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 19 00-0116 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151) .....  | 660.18                    | 38.28                   |
| 22 11 19 00-0117 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....  | 928.97                    | 53.60                   |
| Note: Includes hot and cold hose connections.   |                           |                         |
| 22 11 19 00-0118 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146) .....   | 957.46                    | 53.60                   |
| Note: Includes hot and cold hose connections.   |                           |                         |
| 22 11 19 00-0119 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....   | 957.46                    | 53.60                   |
| Note: Includes hot and cold hose connections.   |                           |                         |
| 22 11 19 00-0120 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156) .....  | 1,025.40                  | 53.60                   |
| Note: Includes hot and cold hose connections.   |                           |                         |
| <b>22 11 19 00-0121 Washer Boxes And Dryer Outlets (22 11 19)</b>   |                           |                         |
| <b>22 11 19 00-0122 Dryer Vent Kit (22 11 19 00-0121)</b>   |                           |                         |
| Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.   |                           |                         |
| 22 11 19 00-0123 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps .....  | 99.84                     | 19.90                   |
| <b>22 11 19 00-0124 Washer Boxes And Dryer Vents (22 11 19 00-0121)</b>   |                           |                         |
| Note: Includes 1/2" supply valves and mounting brackets.  |                           |                         |
| 22 11 19 00-0125 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves .....  | 359.88                    | 30.63                   |
| <b>22 11 19 00-0126 Ice Maker Outlet Box (22 11 19)</b>   |                           |                         |
| Note: Includes one 1/2" quarter turn ball valve and connections wall mount.   |                           |                         |
| 22 11 19 00-0127 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount .....  | 190.02                    | 30.63                   |
| 22 11 19 00-0128 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount .....   | 192.95                    | 30.63                   |
| 22 11 19 00-0129 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....   | 269.31                    | 30.63                   |
| <b>22 11 19 00-0130 Tempering Controllers For Potable Hot Water (22 11 19)</b>  |                           |                         |
| <b>22 11 19 00-0131 Point-Of-Use Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)</b>  |                           |                         |
| Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.  |                           |                         |
| 22 11 19 00-0132 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....   | 588.09                    | 37.07                   |
| 22 11 19 00-0133 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....   | 158.55                    | 37.07                   |
| 22 11 19 00-0134 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....   | 338.23                    | 37.07                   |
| 22 11 19 00-0135 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....   | 389.84                    | 49.93                   |
| <b>22 11 19 00-0136 Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)</b>   |                           |                         |
| Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers. |                           |                         |
| 22 11 19 00-0137 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025) .....   | 1,587.09                  | 53.46                   |
| 22 11 19 00-0138 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045) .....   | 1,782.64                  | 65.84                   |
| 22 11 19 00-0139 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080) .....   | 2,142.55                  | 76.59                   |
| 22 11 19 00-0140 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....   | 2,773.43                  | 80.49                   |
| 22 11 19 00-0141 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200).....   | 3,722.70                  | 104.43                  |
| <b>22 11 19 00-0142 High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)</b>  |                           |                         |
| Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.      |                           |                         |
| 22 11 19 00-0143 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045) .....  | 4,034.61                  | 82.33                   |
| 22 11 19 00-0144 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080) .....  | 5,248.85                  | 95.73                   |
| 22 11 19 00-0145 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....  | 6,119.14                  | 100.62                  |
| 22 11 19 00-0146 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200) .....   | 6,783.12                  | 130.55                  |
| <b>22 11 19 00-0147 Thermostatic Mixing Valves (Leonard) (22 11 19 00-0130)</b>   |                           |                         |
| Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection   |                           |                         |
| 22 11 19 00-0148 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....   | 1,155.59                  | 53.46                   |
| Note: For hot water or two pipe low pressure steam.   |                           |                         |
| 22 11 19 00-0149 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....   | 1,361.16                  | 65.83                   |
| Note: For hot water or two pipe low pressure steam.   |                           |                         |
| 22 11 19 00-0150 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....   | 1,671.95                  | 76.59                   |
| Note: For hot water or two pipe low pressure steam.   |                           |                         |
| 22 11 19 00-0151 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....   | 2,041.37                  | 80.52                   |
| Note: For hot water or two pipe low pressure steam.   |                           |                         |
| 22 11 19 00-0152 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....   | 3,029.45                  | 104.43                  |
| Note: For hot water or two pipe low pressure steam.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 11 19 00-0153 Water Mixing/Self Operating Temperature Regulator</b> <small>(22 11 19 00-0130)</small><br>Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.   |                           |                         |
| 22 11 19 00-0154 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator) .....  | 3,329.09                  | 76.57                   |
| 22 11 19 00-0155 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator) .....  | 3,538.04                  | 96.47                   |
| 22 11 19 00-0156 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator) .....  | 3,904.69                  | 116.38                  |
| 22 11 19 00-0157 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator) .....  | 4,304.81                  | 136.29                  |
| 22 11 19 00-0158 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator) .....  | 5,104.96                  | 179.17                  |
| 22 11 19 00-0159 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator) .....  | 6,005.51                  | 204.28                  |
| <b>22 11 19 00-0160 Thermostatic Mixing Valves (Holby)</b> <small>(22 11 19 00-0130)</small>   |                           |                         |
| 22 11 19 00-0161 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500) .....   | 5,376.57                  | 104.46                  |
| <b>22 11 19 00-0162 Backflow Preventer Valves</b> <small>(22 11 19)</small>  |                           |                         |
| <b>22 11 19 00-0163 Double Check Valve Backflow Preventer Assemblies</b> <small>(22 11 19 00-0162)</small>   |                           |                         |
| <b>22 11 19 00-0164 Threaded Double Check Valve Assemblies</b> <small>(22 11 19 00-0163)</small>   |                           |                         |
| <b>22 11 19 00-0165 Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0164)</small><br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).                                   |                           |                         |
| 22 11 19 00-0166 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) .....  | 479.64                    | 41.04                   |
| <i>For Work In Restricted Working Space, Add</i>   | 30.78                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -377.04                   |                         |
| 22 11 19 00-0167 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series) .....  | 571.11                    | 58.19                   |
| <i>For Work In Restricted Working Space, Add</i>   | 43.64                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -425.64                   |                         |
| 22 11 19 00-0168 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series) .....  | 660.56                    | 71.05                   |
| <i>For Work In Restricted Working Space, Add</i>   | 53.29                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -482.93                   |                         |
| 22 11 19 00-0169 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series) .....  | 916.23                    | 82.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 62.02                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -709.50                   |                         |
| 22 11 19 00-0170 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series) .....  | 1,130.45                  | 94.94                   |
| <i>For Work In Restricted Working Space, Add</i>   | 70.75                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -894.63                   |                         |
| 22 11 19 00-0171 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series) .....  | 1,309.27                  | 122.50                  |
| <i>For Work In Restricted Working Space, Add</i>   | 91.88                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -1,003.00                 |                         |
| <b>22 11 19 00-0172 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0164)</small><br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series). |                           |                         |
| 22 11 19 00-0173 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S) .....  | 587.53                    | 41.04                   |
| <i>For Work In Restricted Working Space, Add</i>   | 30.78                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -484.93                   |                         |
| 22 11 19 00-0174 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S) .....  | 729.13                    | 58.19                   |
| <i>For Work In Restricted Working Space, Add</i>   | 43.64                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -583.66                   |                         |
| 22 11 19 00-0175 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S) .....  | 854.28                    | 71.05                   |
| <i>For Work In Restricted Working Space, Add</i>   | 53.29                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -676.65                   |                         |
| 22 11 19 00-0176 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S) .....  | 1,192.26                  | 82.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 62.02                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -985.53                   |                         |
| 22 11 19 00-0177 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S) .....  | 1,455.55                  | 94.94                   |
| <i>For Work In Restricted Working Space, Add</i>   | 70.75                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -1,219.73                 |                         |
| 22 11 19 00-0178 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S) .....  | 1,758.11                  | 122.50                  |
| <i>For Work In Restricted Working Space, Add</i>   | 91.88                     |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -1,451.84                 |                         |
| <b>22 11 19 00-0179 Flanged Double Check Valve Assemblies</b> <small>(22 11 19 00-0163)</small>  |                           |                         |
| <b>22 11 19 00-0180 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0179)</small><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).   |                           |                         |
| 22 11 19 00-0181 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) .....  | 6,291.57                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.34                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -5,840.43                 |                         |
| 22 11 19 00-0182 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) .....  | 6,913.88                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -6,413.40                 |                         |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 11 19 00-0183 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0179)</sup><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).                            |                           |                         |
| 22 11 19 00-0184 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....  | 6,885.21                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.34                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,434.07                 |                         |
| 22 11 19 00-0185 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....  | 7,903.28                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -7,402.80                 |                         |
| <b>22 11 19 00-0186 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <sup>(22 11 19 00-0179)</sup><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).                                  |                           |                         |
| 22 11 19 00-0187 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....   | 6,334.36                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -5,883.25                 |                         |
| 22 11 19 00-0188 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....   | 4,861.76                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.15                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -4,361.27                 |                         |
| 22 11 19 00-0189 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....   | 7,604.96                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.45                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,853.46                 |                         |
| 22 11 19 00-0190 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....   | 11,527.11                 | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -10,128.06                |                         |
| 22 11 19 00-0191 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....   | 26,183.91                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | 629.67                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -24,085.01                |                         |
| 22 11 19 00-0192 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....  | 33,603.55                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -31,105.26                |                         |
| <b>22 11 19 00-0193 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer</b> <sup>(22 11 19 00-0179)</sup><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series). |                           |                         |
| 22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....  | 8,858.62                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -8,107.19                 |                         |
| 22 11 19 00-0195 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....  | 14,677.72                 | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -13,278.67                |                         |
| 22 11 19 00-0196 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....   | 38,978.49                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -36,480.20                |                         |
| <b>22 11 19 00-0197 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0179)</sup><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).                            |                           |                         |
| 22 11 19 00-0198 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....   | 6,722.74                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,271.63                 |                         |
| 22 11 19 00-0199 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....   | 7,387.90                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,887.42                 |                         |
| 22 11 19 00-0200 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....   | 8,059.72                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -7,308.29                 |                         |
| 22 11 19 00-0201 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....   | 13,460.90                 | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -12,061.85                |                         |
| 22 11 19 00-0202 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....   | 27,789.56                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -25,690.99                |                         |
| 22 11 19 00-0203 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....  | 35,675.73                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -33,177.44                |                         |
| <b>22 11 19 00-0204 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0179)</sup><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).       |                           |                         |
| 22 11 19 00-0205 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....   | 4,039.69                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -3,588.58                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 19 00-0206 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....   | 4,448.12                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -3,947.64                 |                         |
| 22 11 19 00-0207 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....   | 5,058.14                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -4,306.71                 |                         |
| 22 11 19 00-0208 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....   | 8,133.19                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,734.14                 |                         |
| 22 11 19 00-0209 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....   | 15,412.53                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -13,313.96                |                         |
| 22 11 19 00-0210 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....  | 16,745.17                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -14,246.88                |                         |
| <b>22 11 19 00-0211 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0179)</small>  |                           |                         |
| <i>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).</i> |                           |                         |
| 22 11 19 00-0212 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....   | 5,312.99                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -4,861.88                 |                         |
| 22 11 19 00-0213 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....   | 5,721.42                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -5,220.94                 |                         |
| 22 11 19 00-0214 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....  | 7,185.87                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,434.44                 |                         |
| 22 11 19 00-0215 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....   | 11,695.11                 | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -10,296.06                |                         |
| 22 11 19 00-0216 EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....   | 20,691.66                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -18,593.09                |                         |
| 22 11 19 00-0217 EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....  | 24,622.95                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -22,124.66                |                         |
| <b>22 11 19 00-0218 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves</b> <small>(22 11 19 00-0179)</small>  |                           |                         |
| <i>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).</i>  |                           |                         |
| 22 11 19 00-0219 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....   | 3,786.43                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -3,335.32                 |                         |
| 22 11 19 00-0220 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....   | 4,206.38                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -3,705.90                 |                         |
| 22 11 19 00-0221 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....   | 4,827.77                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -4,076.34                 |                         |
| 22 11 19 00-0222 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....   | 7,952.22                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,553.17                 |                         |
| 22 11 19 00-0223 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....   | 15,238.13                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -13,139.56                |                         |
| 22 11 19 00-0224 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....  | 17,232.12                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -14,733.83                |                         |
| <b>22 11 19 00-0225 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0179)</small>  |                           |                         |
| <i>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).</i> |                           |                         |
| 22 11 19 00-0226 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....  | 4,952.96                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -4,501.85                 |                         |
| 22 11 19 00-0227 EA 3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....  | 5,361.40                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -4,860.92                 |                         |
| 22 11 19 00-0228 EA 4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....  | 6,826.29                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>   | -6,074.86                 |                         |



**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 19 00-0229 EA 6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....   | 11,312.12                 | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>   | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -9,913.07                 |                         |
| 22 11 19 00-0230 EA 8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....   | 20,111.97                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>   | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -18,013.40                |                         |
| 22 11 19 00-0231 EA 10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....  | 24,041.57                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>   | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -21,543.28                |                         |
| <b>22 11 19 00-0232 Double Check Valve Assemblies With Butterfly Shut-Off Valves</b> (22 11 19 00-0179)<br>Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).                    |                           |                         |
| 22 11 19 00-0233 EA 2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 4,385.39                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -3,934.28                 |                         |
| 22 11 19 00-0234 EA 3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 4,793.82                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -4,293.34                 |                         |
| 22 11 19 00-0235 EA 4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 5,403.84                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -4,652.41                 |                         |
| 22 11 19 00-0236 EA 6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 8,487.60                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>   | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -7,088.55                 |                         |
| 22 11 19 00-0237 EA 8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 15,766.94                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>   | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -13,668.37                |                         |
| <b>22 11 19 00-0238 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs</b> (22 11 19 00-0179)<br>Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).               |                           |                         |
| 22 11 19 00-0239 EA 2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....   | 5,658.69                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -5,207.58                 |                         |
| 22 11 19 00-0240 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 6,067.12                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -5,566.64                 |                         |
| 22 11 19 00-0241 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 7,531.57                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -6,780.14                 |                         |
| 22 11 19 00-0242 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 12,049.60                 | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>   | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -10,650.55                |                         |
| 22 11 19 00-0243 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....   | 15,766.94                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>   | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -13,668.37                |                         |
| <b>22 11 19 00-0244 Grooved Double Check Valve Assemblies</b> (22 11 19 00-0163)   |                           |                         |
| <b>22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0244)<br>Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).           |                           |                         |
| 22 11 19 00-0246 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....  | 3,786.43                  | 180.45                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -3,335.32                 |                         |
| 22 11 19 00-0247 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....  | 4,206.38                  | 200.19                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -3,705.90                 |                         |
| <b>22 11 19 00-0248 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0244)<br>Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series). |                           |                         |
| 22 11 19 00-0249 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....   | 4,952.96                  | 180.45                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.33                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -4,501.85                 |                         |
| 22 11 19 00-0250 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....   | 5,361.40                  | 200.19                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -4,860.92                 |                         |
| <b>22 11 19 00-0251 Reduced Pressure Zone Backflow Preventer Assemblies</b> (22 11 19 00-0162)   |                           |                         |
| <b>22 11 19 00-0252 Threaded Reduced Pressure Zone Assemblies</b> (22 11 19 00-0251)   |                           |                         |
| <b>22 11 19 00-0253 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0252)<br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).                                |                           |                         |



| MINOR   | CSI | UOM    | DESCRIPTION   | TOTAL DIRECT UNIT COST         | DEMOLITION UNIT COST |
|---|-----|--------|---|--------------------------------|----------------------|
| 22 11 19 00-0254  | EA  | 1/4"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 527.35<br>26.65<br>-438.53     | 35.52                |
| 22 11 19 00-0255  | EA  | 3/8"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 557.83<br>29.40<br>-459.82     | 39.20                |
| 22 11 19 00-0256  | EA  | 1/2"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 647.30<br>30.78<br>-544.70     | 41.04                |
| 22 11 19 00-0257  | EA  | 3/4"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>              | 870.91<br>43.64<br>-725.44     | 58.19                |
| 22 11 19 00-0258  | EA  | 1"     | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>              | 1,034.36<br>53.29<br>-856.73   | 71.05                |
| 22 11 19 00-0259  | EA  | 1-1/4" | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>              | 1,550.68<br>62.02<br>-1,343.95 | 82.69                |
| 22 11 19 00-0260  | EA  | 1-1/2" | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>              | 1,642.98<br>70.75<br>-1,407.16 | 94.94                |
| 22 11 19 00-0261  | EA  | 2"     | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>              | 1,976.09<br>91.88<br>-1,669.82 | 122.50               |
| <b>22 11 19 00-0262 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> (22 11 19 00-0262)<br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series). |     |        |   |                                |                      |
| 22 11 19 00-0263  | EA  | 1/4"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 580.44<br>26.65<br>-491.62     | 35.52                |
| 22 11 19 00-0264  | EA  | 3/8"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 613.78<br>29.40<br>-515.77     | 39.20                |
| 22 11 19 00-0265  | EA  | 1/2"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 723.97<br>30.78<br>-621.37     | 58.19                |
| 22 11 19 00-0266  | EA  | 3/4"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 991.41<br>43.64<br>-845.94     | 58.19                |
| 22 11 19 00-0267  | EA  | 1"     | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 1,185.02<br>53.29<br>-1,007.39 | 71.05                |
| 22 11 19 00-0268  | EA  | 1-1/4" | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 1,756.15<br>62.02<br>-1,549.42 | 82.69                |
| 22 11 19 00-0269  | EA  | 1-1/2" | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 1,932.95<br>70.75<br>-1,697.13 | 94.94                |
| 22 11 19 00-0270  | EA  | 2"     | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i> | 2,331.84<br>91.88<br>-2,025.57 | 122.50               |
| <b>22 11 19 00-0271 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0271)<br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).                                 |     |        |   |                                |                      |
| 22 11 19 00-0272  | EA  | 3/4"   | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 870.91<br>43.64<br>-725.44     | 58.19                |
| 22 11 19 00-0273  | EA  | 1"     | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 1,034.36<br>53.29<br>-856.73   | 71.05                |
| 22 11 19 00-0274  | EA  | 1-1/4" | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 1,550.68<br>62.02<br>-1,343.95 | 82.69                |
| 22 11 19 00-0275  | EA  | 1-1/2" | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 1,642.98<br>70.75<br>-1,407.16 | 94.94                |
| 22 11 19 00-0276  | EA  | 2"     | Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Owner Furnished Material, Deduct</i>                | 1,976.09<br>91.88<br>-1,669.82 | 122.50               |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
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|                         |   |           |        |
|-------------------------|---|-----------|--------|
| <b>22 11 19 00-0277</b> | <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0252)</small><br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).   |           |        |
| 22 11 19 00-0278        | EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....  | 991.41    | 58.19  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 43.64     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -845.94   |        |
| 22 11 19 00-0279        | EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....  | 1,185.02  | 71.05  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 53.29     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -1,007.39 |        |
| 22 11 19 00-0280        | EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....  | 1,756.15  | 82.69  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 62.02     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -1,549.42 |        |
| 22 11 19 00-0281        | EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....  | 1,932.95  | 94.94  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 70.75     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -1,697.13 |        |
| 22 11 19 00-0282        | EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....  | 2,331.84  | 122.50 |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 91.88     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -2,025.57 |        |
| <b>22 11 19 00-0283</b> | <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0252)</small><br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).                                   |           |        |
| 22 11 19 00-0284        | EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....  | 1,765.87  | 58.19  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 43.64     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -1,620.40 |        |
| 22 11 19 00-0285        | EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....  | 2,091.29  | 71.05  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 53.29     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -1,913.66 |        |
| 22 11 19 00-0286        | EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....  | 3,204.75  | 82.69  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 62.02     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -2,998.02 |        |
| 22 11 19 00-0287        | EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....  | 3,467.08  | 94.94  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 70.75     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -3,231.26 |        |
| 22 11 19 00-0288        | EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....  | 4,028.56  | 122.50 |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 91.88     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -3,722.29 |        |
| <b>22 11 19 00-0289</b> | <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0252)</small><br>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series). |           |        |
| 22 11 19 00-0290        | EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....   | 2,368.20  | 58.19  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 43.64     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -2,222.73 |        |
| 22 11 19 00-0291        | EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....   | 2,816.10  | 71.05  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 53.29     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -2,638.47 |        |
| 22 11 19 00-0292        | EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....   | 4,280.65  | 82.69  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 62.02     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -4,073.92 |        |
| 22 11 19 00-0293        | EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....   | 4,678.01  | 94.94  |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 70.75     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -4,442.19 |        |
| 22 11 19 00-0294        | EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....   | 5,561.94  | 122.50 |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 91.88     |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -5,255.67 |        |
| 22 11 19 00-0295        | <b>Flanged Reduced Pressure Zone Assemblies</b> <small>(22 11 19 00-0251)</small>   |           |        |
| <b>22 11 19 00-0296</b> | <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).                                     |           |        |
| 22 11 19 00-0297        | EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....   | 5,793.91  | 338.36 |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 135.34    |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -5,342.77 |        |
| 22 11 19 00-0298        | EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....   | 6,526.97  | 380.65 |
|                         | <i>For Work In Restricted Working Space, Add</i>  | 150.14    |        |
|                         | <i>For Owner Furnished Material, Deduct</i>   | -6,026.49 |        |



|  |                                    |              |           |
|--|------------------------------------|--------------|-----------|
|  | <b>Plumbing</b>                    | <b>22</b>    |           |
|  | <b>Plumbing Piping</b>             | <b>22 10</b> | <b>22</b> |
|  | <b>Facility Water Distribution</b> | <b>22 11</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 11 19 00-0299</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).              |                           |                         |
| 22 11 19 00-0300     EA     2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....  | 6,889.64                  | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.34                    |                         |
| For Owner Furnished Material, Deduct   | -6,438.50                 |                         |
| 22 11 19 00-0301     EA     3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....  | 7,799.91                  | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.14                    |                         |
| For Owner Furnished Material, Deduct   | -7,299.43                 |                         |
| <b>22 11 19 00-0302</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).  |                           |                         |
| 22 11 19 00-0303     EA     2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....   | 6,213.30                  | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.34                    |                         |
| For Owner Furnished Material, Deduct   | -5,762.16                 |                         |
| 22 11 19 00-0304     EA     3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....   | 7,223.99                  | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.14                    |                         |
| For Owner Furnished Material, Deduct   | -6,723.51                 |                         |
| <b>22 11 19 00-0305</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)                           |                           |                         |
| 22 11 19 00-0306     EA     2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....  | 6,889.64                  | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.34                    |                         |
| For Owner Furnished Material, Deduct   | -6,438.50                 |                         |
| 22 11 19 00-0307     EA     3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....  | 7,799.91                  | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.14                    |                         |
| For Owner Furnished Material, Deduct   | -7,299.43                 |                         |
| <b>22 11 19 00-0308</b> <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).  |                           |                         |
| 22 11 19 00-0309     EA     2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....   | 7,638.34                  | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.34                    |                         |
| For Owner Furnished Material, Deduct   | -7,187.20                 |                         |
| 22 11 19 00-0310     EA     3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....   | 8,835.09                  | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.14                    |                         |
| For Owner Furnished Material, Deduct   | -8,334.61                 |                         |
| <b>22 11 19 00-0311</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).  |                           |                         |
| 22 11 19 00-0312     EA     2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....   | 9,885.87                  | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.33                    |                         |
| For Owner Furnished Material, Deduct   | -9,434.76                 |                         |
| 22 11 19 00-0313     EA     3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....   | 11,228.86                 | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.15                    |                         |
| For Owner Furnished Material, Deduct   | -10,728.37                |                         |
| 22 11 19 00-0314     EA     4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....   | 14,163.07                 | 563.93                  |
| For Work In Restricted Working Space, Add  | 225.45                    |                         |
| For Owner Furnished Material, Deduct   | -13,411.57                |                         |
| 22 11 19 00-0315     EA     6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....   | 21,445.37                 | 774.47                  |
| For Work In Restricted Working Space, Add  | 587.64                    |                         |
| For Owner Furnished Material, Deduct   | -19,486.58                |                         |
| 22 11 19 00-0316     EA     8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....   | 35,526.81                 | 1,161.71                |
| For Work In Restricted Working Space, Add  | 881.45                    |                         |
| For Owner Furnished Material, Deduct   | -32,588.63                |                         |
| 22 11 19 00-0317     EA     10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....  | 45,661.19                 | 1,374.06                |
| For Work In Restricted Working Space, Add  | 749.49                    |                         |
| For Owner Furnished Material, Deduct   | -43,162.90                |                         |
| <b>22 11 19 00-0318</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer</b> <small>(22 11 19 00-0295)</small><br>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series). |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 19 00-0319 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....  | 10,646.38                 | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.33                    |                         |
| For Owner Furnished Material, Deduct   | -10,195.27                |                         |
| 22 11 19 00-0320 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....  | 12,029.23                 | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.14                    |                         |
| For Owner Furnished Material, Deduct   | -11,528.75                |                         |
| 22 11 19 00-0321 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....  | 15,390.16                 | 563.93                  |
| For Work In Restricted Working Space, Add  | 225.43                    |                         |
| For Owner Furnished Material, Deduct   | -14,638.73                |                         |
| 22 11 19 00-0322 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....  | 23,195.44                 | 774.47                  |
| For Work In Restricted Working Space, Add  | 419.72                    |                         |
| For Owner Furnished Material, Deduct   | -21,796.39                |                         |
| 22 11 19 00-0323 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....  | 37,538.89                 | 1,161.71                |
| For Work In Restricted Working Space, Add  | 629.57                    |                         |
| For Owner Furnished Material, Deduct   | -35,440.32                |                         |
| 22 11 19 00-0324 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....   | 50,896.87                 | 1,374.06                |
| For Work In Restricted Working Space, Add  | 749.49                    |                         |
| For Owner Furnished Material, Deduct   | -48,398.58                |                         |
| <b>22 11 19 00-0325 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> (22 11 19 00-0295)   |                           |                         |
| Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).                        |                           |                         |
| 22 11 19 00-0326 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....   | 10,512.00                 | 338.36                  |
| For Work In Restricted Working Space, Add  | 135.33                    |                         |
| For Owner Furnished Material, Deduct   | -10,060.89                |                         |
| 22 11 19 00-0327 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....   | 11,946.55                 | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.15                    |                         |
| For Owner Furnished Material, Deduct   | -11,446.06                |                         |
| 22 11 19 00-0328 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....   | 15,055.01                 | 563.93                  |
| For Work In Restricted Working Space, Add  | 225.45                    |                         |
| For Owner Furnished Material, Deduct   | -14,303.51                |                         |
| 22 11 19 00-0329 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....   | 22,185.85                 | 774.47                  |
| For Work In Restricted Working Space, Add  | 419.72                    |                         |
| For Owner Furnished Material, Deduct   | -20,786.80                |                         |
| 22 11 19 00-0330 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....   | 36,860.78                 | 1,161.71                |
| For Work In Restricted Working Space, Add  | 629.57                    |                         |
| For Owner Furnished Material, Deduct   | -34,762.21                |                         |
| 22 11 19 00-0331 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....  | 48,537.10                 | 1,374.06                |
| For Work In Restricted Working Space, Add  | 749.49                    |                         |
| For Owner Furnished Material, Deduct   | -46,038.81                |                         |
| <b>22 11 19 00-0332 Double Check Detector Assemblies</b> (22 11 19 00-0162)  |                           |                         |
| <b>22 11 19 00-0333 Flanged Double Check Detector Assemblies With Meter</b> (22 11 19 00-0332)   |                           |                         |
| <b>22 11 19 00-0334 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter</b> (22 11 19 00-0333)   |                           |                         |
| Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series). |                           |                         |
| 22 11 19 00-0335 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....  | 7,918.12                  | 380.65                  |
| For Work In Restricted Working Space, Add  | 150.14                    |                         |
| For Owner Furnished Material, Deduct   | -7,417.64                 |                         |
| 22 11 19 00-0336 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....  | 8,341.18                  | 563.93                  |
| For Work In Restricted Working Space, Add  | 225.43                    |                         |
| For Owner Furnished Material, Deduct   | -7,589.75                 |                         |
| 22 11 19 00-0337 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....  | 11,254.61                 | 774.47                  |
| For Work In Restricted Working Space, Add  | 419.72                    |                         |
| For Owner Furnished Material, Deduct   | -9,855.56                 |                         |
| 22 11 19 00-0338 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....  | 19,913.06                 | 1,161.71                |
| For Work In Restricted Working Space, Add  | 629.57                    |                         |
| For Owner Furnished Material, Deduct   | -17,814.49                |                         |
| 22 11 19 00-0339 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....   | 26,844.68                 | 1,374.06                |
| For Work In Restricted Working Space, Add  | 749.49                    |                         |
| For Owner Furnished Material, Deduct   | -24,346.39                |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 11 19 00-0340 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter</b> <small>(22 11 19 00-0333)</small><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series). |                           |                         |
| 22 11 19 00-0341 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) .....   | 5,946.38                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.34                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -5,495.24                 |                         |
| 22 11 19 00-0342 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) .....   | 6,354.42                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -5,853.94                 |                         |
| 22 11 19 00-0343 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) .....   | 6,972.93                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -6,221.50                 |                         |
| 22 11 19 00-0344 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) .....   | 9,477.59                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>   | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -8,078.54                 |                         |
| 22 11 19 00-0345 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) .....   | 16,701.26                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>   | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -14,602.69                |                         |
| 22 11 19 00-0346 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) .....  | 19,698.31                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>   | 749.49                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -17,200.02                |                         |
| <b>22 11 19 00-0347 Double Check Detector Assembly With Butterfly Valves And Meter</b> <small>(22 11 19 00-0333)</small><br>Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).                                 |                           |                         |
| 22 11 19 00-0348 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) .....  | 6,292.16                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.34                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -5,841.02                 |                         |
| 22 11 19 00-0349 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) .....  | 6,700.19                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -6,199.71                 |                         |
| 22 11 19 00-0350 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) .....  | 7,318.63                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -6,567.20                 |                         |
| 22 11 19 00-0351 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) .....  | 9,832.01                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>   | 419.72                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -8,432.96                 |                         |
| 22 11 19 00-0352 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) .....  | 16,276.04                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>   | 629.57                    |                         |
| <i>For Owner Furnished Material, Deduct</i>  | -14,177.47                |                         |
| <b>22 11 19 00-0353 Flanged Double Check Detector Assemblies Without Meter</b> <small>(22 11 19 00-0332)</small>   |                           |                         |
| <b>22 11 19 00-0354 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter</b> <small>(22 11 19 00-0353)</small><br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).        |                           |                         |
| 22 11 19 00-0355 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....   | 5,837.21                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.34                    |                         |
| 22 11 19 00-0356 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....   | 6,245.29                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>   | 150.14                    |                         |
| 22 11 19 00-0357 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....   | 6,863.80                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| 22 11 19 00-0358 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....   | 9,368.46                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>   | 419.72                    |                         |
| 22 11 19 00-0359 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....   | 16,592.21                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>   | 629.57                    |                         |
| 22 11 19 00-0360 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) .....  | 19,589.11                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>   | 749.49                    |                         |
| <b>22 11 19 00-0361 Double Check Detector Assembly With Butterfly Valves Less Meter</b> <small>(22 11 19 00-0353)</small><br>Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).                              |                           |                         |
| 22 11 19 00-0362 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) .....  | 6,182.95                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 135.34                    |                         |

|              |                                    |
|--------------|------------------------------------|
| <b>22</b>    | <b>Plumbing</b>                    |
| <b>22 10</b> | <b>Plumbing Piping</b>             |
| <b>22 11</b> | <b>Facility Water Distribution</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 19 00-0363 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....  | 6,590.99                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>150.14</i>             |                         |
| 22 11 19 00-0364 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....  | 7,209.50                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>225.43</i>             |                         |
| 22 11 19 00-0365 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....  | 9,722.80                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>419.72</i>             |                         |
| 22 11 19 00-0366 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)...  | 16,946.62                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | <i>629.57</i>             |                         |
| <b>22 11 19 00-0367 Flanged Double Check Detector Assemblies</b> (22 11 19 00-0332)   |                           |                         |
| <b>22 11 19 00-0368 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs</b>   |                           |                         |
| (22 11 19 00-0367)<br>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series). |                           |                         |
| 22 11 19 00-0369 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....   | 5,639.67                  | 338.36                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>135.34</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-5,188.53</i>          |                         |
| 22 11 19 00-0370 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....   | 6,816.63                  | 380.65                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>150.14</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-6,316.15</i>          |                         |
| 22 11 19 00-0371 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....   | 7,603.85                  | 563.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>225.43</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-6,852.42</i>          |                         |
| 22 11 19 00-0372 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....   | 9,600.46                  | 774.47                  |
| <i>For Work In Restricted Working Space, Add</i>  | <i>419.72</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-8,201.41</i>          |                         |
| 22 11 19 00-0373 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....   | 16,923.44                 | 1,161.71                |
| <i>For Work In Restricted Working Space, Add</i>  | <i>629.57</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-14,824.87</i>         |                         |
| 22 11 19 00-0374 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....  | 22,758.74                 | 1,374.06                |
| <i>For Work In Restricted Working Space, Add</i>  | <i>749.49</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-20,260.45</i>         |                         |
| 22 11 19 00-0375 EA 12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....  | 30,317.79                 | 1,648.87                |
| <i>For Work In Restricted Working Space, Add</i>  | <i>899.39</i>             |                         |
| <i>For Owner Furnished Material, Deduct</i>   | <i>-27,319.84</i>         |                         |
| <b>22 11 19 00-0376 Backflow Preventer Accessories</b> (22 11 19 00-0162)   |                           |                         |
| <b>22 11 19 00-0377 Air Gap</b> (22 11 19 00-0376)  |                           |                         |
| 22 11 19 00-0378 EA Up To 1" Diameter Air Gap For Backflow Preventer.....   | 138.61                    | 19.14                   |
| 22 11 19 00-0379 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer.....   | 170.33                    | 22.97                   |
| 22 11 19 00-0380 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer.....   | 314.47                    | 30.63                   |
| 22 11 19 00-0381 EA 4" To 6" Diameter Air Gap For Backflow Preventer.....   | 619.02                    | 53.60                   |
| 22 11 19 00-0382 EA 8" To 10" Diameter Air Gap For Backflow Preventer.....  | 664.95                    | 76.57                   |
| <b>22 11 19 00-0383 Brass Test Cocks</b> (22 11 19 00-0376)   |                           |                         |
| 22 11 19 00-0384 EA 1/8" Or 1/4" Brass Test Cock.....   | 56.37                     | 7.66                    |
| <b>22 11 19 00-0385 Backflow Valve Enclosures</b> (22 11 19 00-0162)  |                           |                         |
| <b>22 11 19 00-0386 Flip-Top, Insulated Fiberglass Valve Enclosures</b> (22 11 19 00-0385)  |                           |                         |
| Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.  |                           |                         |
| 22 11 19 00-0387 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 1,463.85                  | 137.81                  |
| <i>For Heated Enclosure, Add</i>  | <i>167.90</i>             |                         |
| 22 11 19 00-0388 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 1,777.04                  | 137.81                  |
| <i>For Heated Enclosure, Add</i>  | <i>214.88</i>             |                         |
| 22 11 19 00-0389 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 2,218.13                  | 126.88                  |
| <i>For Heated Enclosure, Add</i>  | <i>285.14</i>             |                         |
| 22 11 19 00-0390 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 2,332.03                  | 169.18                  |
| <i>For Heated Enclosure, Add</i>  | <i>286.36</i>             |                         |
| 22 11 19 00-0391 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 2,438.24                  | 169.18                  |
| <i>For Heated Enclosure, Add</i>  | <i>302.30</i>             |                         |
| 22 11 19 00-0392 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 2,852.20                  | 169.18                  |
| <i>For Heated Enclosure, Add</i>  | <i>364.39</i>             |                         |
| 22 11 19 00-0393 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 2,863.09                  | 169.18                  |
| <i>For Heated Enclosure, Add</i>  | <i>366.02</i>             |                         |
| 22 11 19 00-0394 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 3,568.44                  | 169.18                  |
| <i>For Heated Enclosure, Add</i>  | <i>471.83</i>             |                         |
| 22 11 19 00-0395 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 8,120.99                  | 253.77                  |
| <i>For Heated Enclosure, Add</i>  | <i>1,122.99</i>           |                         |
| 22 11 19 00-0396 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....  | 11,680.45                 | 253.77                  |
| <i>For Heated Enclosure, Add</i>  | <i>1,656.90</i>           |                         |



|  |                                    |              |
|--|------------------------------------|--------------|
|  | <b>Plumbing</b>                    | <b>22</b>    |
|  | <b>Plumbing Piping</b>             | <b>22 10</b> |
|  | <b>Facility Water Distribution</b> | <b>22 11</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 22 11 19 00-0397 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....<br><i>For Heated Enclosure, Add</i>   | 11,108.54<br>1,571.12                       | 253.77                  |
| 22 11 19 00-0398 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....<br><i>For Heated Enclosure, Add</i>   | 13,368.46<br>1,894.25                       | 296.06                  |
| <b>22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures</b> (22 11 19 00-0385)<br>Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.   |   |                         |
| 22 11 19 00-0400 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>  | 742.10<br>136.17                            | 36.75                   |
| 22 11 19 00-0401 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 1,030.78<br>193.90                          | 36.75                   |
| 22 11 19 00-0402 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 1,292.80<br>247.28                          | 33.84                   |
| 22 11 19 00-0403 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 1,951.86<br>379.09                          | 33.84                   |
| 22 11 19 00-0404 EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 5,051.40<br>989.13                          | 63.44                   |
| 22 11 19 00-0405 EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 6,895.13<br>1,357.88                        | 63.44                   |
| 22 11 19 00-0406 EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 4,593.87<br>897.63                          | 63.44                   |
| 22 11 19 00-0407 EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 5,198.46<br>1,018.54                        | 63.44                   |
| 22 11 19 00-0408 EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....<br><i>For Heated Enclosure, Add</i>   | 8,131.54<br>1,605.16                        | 63.44                   |
| <b>22 11 19 00-0409 Sectional, Insulated Aluminum Valve Enclosures</b> (22 11 19 00-0385)<br>Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.   |   |                         |
| 22 11 19 00-0410 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>      | 10,471.27<br>1,475.53<br>820.86<br>1,468.91 | 253.77                  |
| 22 11 19 00-0411 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>      | 11,525.22<br>1,633.62<br>820.86<br>1,468.91 | 253.77                  |
| 22 11 19 00-0412 EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>      | 8,248.99<br>1,142.19<br>820.86<br>1,468.91  | 253.77                  |
| 22 11 19 00-0413 EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>      | 9,027.88<br>1,259.02<br>820.86<br>1,468.91  | 253.77                  |
| 22 11 19 00-0414 EA 90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>   | 10,538.39<br>1,453.88<br>820.86<br>1,468.91 | 338.36                  |
| 22 11 19 00-0415 EA 102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i> | 11,785.70<br>1,640.97<br>820.86<br>1,468.91 | 338.36                  |
| 22 11 19 00-0416 EA 90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>   | 11,785.70<br>1,640.97<br>820.86<br>1,468.91 | 338.36                  |
| 22 11 19 00-0417 EA 102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>  | 12,994.88<br>1,822.35<br>820.86<br>1,468.91 | 338.36                  |
| 22 11 19 00-0418 EA 62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>      | 9,789.94<br>1,357.47<br>820.86<br>1,468.91  | 296.06                  |
| 22 11 19 00-0419 EA 62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>      | 11,456.17<br>1,591.54<br>820.86<br>1,468.91 | 338.36                  |
| 22 11 19 00-0420 EA 105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>     | 13,343.47<br>1,874.64<br>820.86<br>1,468.91 | 338.36                  |
| 22 11 19 00-0421 EA 125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>     | 14,638.20<br>2,060.92<br>820.86<br>1,468.91 | 359.50                  |
| 22 11 19 00-0422 EA 105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure .....<br><i>For Heated Enclosure, Add</i><br><i>For One 24" Fluorescent Light Fixture, Add</i><br><i>For Two 24" Fluorescent Light Fixture, Add</i>     | 14,951.39<br>2,107.90<br>820.86<br>1,468.91 | 359.50                  |





| MINOR<br>CSI UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|--|---------------------------|-------------------------|
| 22 11 19 00-0423 | EA 125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 16,562.03                 | 380.65                  |
|                  | For Heated Enclosure, Add  | 2,341.56                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0424 | EA 105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 17,185.69                 | 380.65                  |
|                  | For Heated Enclosure, Add  | 2,435.11                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0425 | EA 72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure .....  | 12,526.46                 | 338.36                  |
|                  | For Heated Enclosure, Add  | 1,752.09                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0426 | EA 72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure .....  | 13,335.30                 | 338.36                  |
|                  | For Heated Enclosure, Add  | 1,873.41                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0427 | EA 72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure .....  | 15,071.22                 | 359.50                  |
|                  | For Heated Enclosure, Add  | 2,125.87                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0428 | EA 72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure .....  | 18,223.30                 | 380.65                  |
|                  | For Heated Enclosure, Add  | 2,590.75                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0429 | EA 118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 15,938.38                 | 380.65                  |
|                  | For Heated Enclosure, Add  | 2,248.01                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0430 | EA 142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 19,109.52                 | 401.80                  |
|                  | For Heated Enclosure, Add  | 2,715.75                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0431 | EA 118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 18,485.87                 | 401.80                  |
|                  | For Heated Enclosure, Add  | 2,622.21                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0432 | EA 142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 21,379.21                 | 422.94                  |
|                  | For Heated Enclosure, Add  | 3,048.28                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0433 | EA 142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 19,786.03                 | 422.94                  |
|                  | For Heated Enclosure, Add  | 2,809.30                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0434 | EA 172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 23,049.78                 | 444.09                  |
|                  | For Heated Enclosure, Add  | 3,290.93                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0435 | EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 23,102.64                 | 465.24                  |
|                  | For Heated Enclosure, Add  | 3,290.93                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0436 | EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure ..... | 27,335.90                 | 486.39                  |
|                  | For Heated Enclosure, Add  | 3,917.99                  |                         |
|                  | For One 24" Fluorescent Light Fixture, Add   | 820.86                    |                         |
|                  | For Two 24" Fluorescent Light Fixture, Add   | 1,468.91                  |                         |
| 22 11 19 00-0437 | Faucets (Hose Bibbs) <sup>(22 11 19)</sup>   |                           |                         |
| 22 11 19 00-0438 | Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends <sup>(22 11 19 00-0437)</sup>           |                           |                         |
| 22 11 19 00-0439 | EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends .....                   | 78.40                     | 15.31                   |
| 22 11 19 00-0440 | EA 3/4", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends .....                   | 91.26                     | 16.85                   |
| 22 11 19 00-0441 | EA 3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL) .....                                | 22.74                     | 11.49                   |
| 22 11 19 00-0442 | Chrome Plated Brass Hose Valves, Screwed Ends <sup>(22 11 19 00-0437)</sup>                  |                           |                         |
| 22 11 19 00-0443 | EA 3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP) .....                         | 238.37                    | 46.86                   |
| 22 11 19 00-0444 | Antisiphon Freezeless Wall Faucet (Woodford 19CP) <sup>(22 11 19 00-0437)</sup>              |                           |                         |
| 22 11 19 00-0445 | EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet .....                                     | 163.37                    | 38.28                   |
| 22 11 19 00-0446 | EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet .....                                     | 177.86                    | 42.42                   |
| 22 11 19 00-0447 | EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet .....                                     | 188.52                    | 44.87                   |
| 22 11 19 00-0448 | EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet .....                                    | 199.17                    | 48.08                   |
| 22 11 19 00-0449 | EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet .....                                    | 209.99                    | 50.99                   |
| 22 11 19 00-0450 | Escutcheons <sup>(22 11 19)</sup>  |                           |                         |
| 22 11 19 00-0451 | Brass Escutcheons <sup>(22 11 19 00-0450)</sup>  |                           |                         |
| 22 11 19 00-0452 | Shallow Brass Escutcheons <sup>(22 11 19 00-0451)</sup>                                      |                           |                         |
| 22 11 19 00-0453 | EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon .....                              | 15.45                     | 3.83                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 11 19 00-0454 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....               | 16.50                     | 3.83                    |
| <b>22 11 19 00-0455 Deep Bell Brass Escutcheons (22 11 19 00-0451)</b>                        |                           |                         |
| 22 11 19 00-0456 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....             | 17.87                     | 4.29                    |
| 22 11 19 00-0457 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....             | 17.91                     | 4.29                    |
| <b>22 11 19 00-0458 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0451)</b>      |                           |                         |
| 22 11 19 00-0459 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....               | 25.22                     | 3.83                    |
| 22 11 19 00-0460 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....               | 25.46                     | 3.83                    |
| 22 11 19 00-0461 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....               | 25.83                     | 3.83                    |
| 22 11 19 00-0462 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....               | 27.16                     | 3.83                    |
| 22 11 19 00-0463 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....               | 27.64                     | 4.59                    |
| 22 11 19 00-0464 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew.....                 | 28.94                     | 4.59                    |
| 22 11 19 00-0465 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....             | 30.07                     | 5.06                    |
| 22 11 19 00-0466 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....             | 31.50                     | 5.36                    |
| 22 11 19 00-0467 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....                 | 44.63                     | 6.12                    |
| <b>22 11 19 00-0468 Plastic Escutcheons (22 11 19 00-0450)</b>                                |                           |                         |
| <b>22 11 19 00-0469 Split-Ring White Plastic Escutcheons (22 11 19 00-0468)</b>               |                           |                         |
| 22 11 19 00-0470 EA 3/8" IPS, Split-Ring White Plastic Escutcheon.....                        | 9.03                      | 3.81                    |
| 22 11 19 00-0471 EA 1/2" IPS, Split-Ring White Plastic Escutcheon.....                        | 9.03                      | 3.81                    |
| 22 11 19 00-0472 EA 3/4" IPS, Split-Ring White Plastic Escutcheon.....                        | 10.45                     | 4.27                    |
| 22 11 19 00-0473 EA 1" IPS, Split-Ring White Plastic Escutcheon.....                          | 11.34                     | 4.58                    |
| 22 11 19 00-0474 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon.....                      | 12.22                     | 5.04                    |
| 22 11 19 00-0475 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon.....                      | 13.07                     | 5.34                    |
| 22 11 19 00-0476 EA 2" IPS, Split-Ring White Plastic Escutcheon.....                          | 14.76                     | 6.10                    |
| 22 11 19 00-0477 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon.....                      | 18.46                     | 6.56                    |
| 22 11 19 00-0478 EA 3" IPS, Split-Ring White Plastic Escutcheon.....                          | 22.17                     | 6.86                    |
| 22 11 19 00-0479 EA 4" IPS, Split-Ring White Plastic Escutcheon.....                          | 26.64                     | 7.63                    |
| <b>22 11 19 00-0480 Chrome Plate Plastic Escutcheons (22 11 19 00-0468)</b>                   |                           |                         |
| 22 11 19 00-0481 EA 1/2" IPS, Chrome Plate Plastic Escutcheon.....                            | 11.45                     | 3.81                    |
| 22 11 19 00-0482 EA 3/4" IPS, Chrome Plate Plastic Escutcheon.....                            | 12.52                     | 4.27                    |
| 22 11 19 00-0483 EA 1" IPS, Chrome Plate Plastic Escutcheon.....                              | 14.00                     | 4.58                    |
| 22 11 19 00-0484 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon.....                          | 15.48                     | 5.04                    |
| 22 11 19 00-0485 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon.....                          | 16.35                     | 5.34                    |
| 22 11 19 00-0486 EA 2" IPS, Chrome Plate Plastic Escutcheon.....                              | 20.35                     | 6.10                    |
| 22 11 19 00-0487 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon.....                          | 28.53                     | 6.56                    |
| 22 11 19 00-0488 EA 3" IPS, Chrome Plate Plastic Escutcheon.....                              | 29.61                     | 6.86                    |
| 22 11 19 00-0489 EA 4" IPS, Chrome Plate Plastic Escutcheon.....                              | 31.75                     | 7.63                    |
| <b>22 11 19 00-0490 Stainless Steel Escutcheons (22 11 19 00-0450)</b>                        |                           |                         |
| <b>22 11 19 00-0491 Shallow Stainless Steel Escutcheons (22 11 19 00-0490)</b>                |                           |                         |
| 22 11 19 00-0492 EA 3/8" IPS, Shallow Stainless Steel Escutcheon.....                         | 20.58                     | 3.83                    |
| 22 11 19 00-0493 EA 1/2" IPS, Shallow Stainless Steel Escutcheon.....                         | 20.58                     | 3.83                    |
| 22 11 19 00-0494 EA 3/4" IPS, Shallow Stainless Steel Escutcheon.....                         | 28.50                     | 4.29                    |
| <b>22 11 19 00-0495 Chrome Plated Steel Escutcheons (22 11 19 00-0450)</b>                    |                           |                         |
| <b>22 11 19 00-0496 Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>         |                           |                         |
| 22 11 19 00-0497 EA 1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                  | 8.39                      | 3.81                    |
| 22 11 19 00-0498 EA 3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                  | 9.15                      | 4.27                    |
| 22 11 19 00-0499 EA 1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                    | 10.05                     | 4.58                    |
| 22 11 19 00-0500 EA 1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                | 10.81                     | 5.04                    |
| 22 11 19 00-0501 EA 1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                | 11.58                     | 5.34                    |
| 22 11 19 00-0502 EA 2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                    | 13.32                     | 6.10                    |
| 22 11 19 00-0503 EA 2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                | 19.17                     | 6.56                    |
| 22 11 19 00-0504 EA 3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                    | 20.36                     | 6.86                    |
| 22 11 19 00-0505 EA 3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                | 24.66                     | 7.32                    |
| 22 11 19 00-0506 EA 4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                    | 22.24                     | 7.63                    |
| 22 11 19 00-0507 EA 5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                    | 28.20                     | 8.39                    |
| 22 11 19 00-0508 EA 6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....                    | 32.68                     | 9.15                    |
| <b>22 11 19 00-0509 Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b> |                           |                         |
| 22 11 19 00-0510 EA 3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....          | 12.65                     | 3.81                    |
| 22 11 19 00-0511 EA 1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....          | 12.65                     | 3.81                    |
| 22 11 19 00-0512 EA 3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....          | 13.57                     | 4.27                    |
| 22 11 19 00-0513 EA 1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....            | 14.43                     | 4.58                    |
| 22 11 19 00-0514 EA 1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....        | 16.20                     | 5.04                    |
| 22 11 19 00-0515 EA 1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....        | 17.18                     | 5.34                    |
| 22 11 19 00-0516 EA 2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....            | 20.28                     | 6.10                    |
| 22 11 19 00-0517 EA 2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....        | 23.15                     | 6.56                    |

**22 Plumbing**

**22 10 Plumbing Piping**

**22 11 Facility Water Distribution**



| MINOR                   |     |   |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|---|--|--------------|------------|
| CSI                     | UOM | DESCRIPTION   |  | UNIT COST    | UNIT COST  |
| 22 11 19 00-0518        | EA  | 3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....   |  | 27.94        | 6.86       |
| 22 11 19 00-0519        | EA  | 3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....   |  | 33.93        | 7.32       |
| 22 11 19 00-0520        | EA  | 4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....   |  | 34.53        | 7.63       |
| 22 11 19 00-0521        | EA  | 5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....   |  | 55.60        | 8.39       |
| 22 11 19 00-0522        | EA  | 6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....   |  | 58.18        | 9.15       |
| <b>22 11 19 00-0523</b> |     | <b>Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>   |  |              |            |
| 22 11 19 00-0524        | EA  | 3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....   |  | 10.16        | 4.29       |
| 22 11 19 00-0525        | EA  | 1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....   |  | 10.04        | 4.29       |
| 22 11 19 00-0526        | EA  | 3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....   |  | 9.78         | 4.29       |
| 22 11 19 00-0527        | EA  | 1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....   |  | 10.77        | 4.59       |
| 22 11 19 00-0528        | EA  | 1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon .....  |  | 11.69        | 5.06       |
| 22 11 19 00-0529        | EA  | 1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon .....  |  | 12.83        | 5.36       |
| <b>22 11 19 00-0530</b> |     | <b>Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>   |  |              |            |
| 22 11 19 00-0531        | EA  | 3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....   |  | 9.28         | 3.83       |
| 22 11 19 00-0532        | EA  | 1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....   |  | 9.28         | 3.83       |
| 22 11 19 00-0533        | EA  | 3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....   |  | 9.40         | 3.83       |
| 22 11 19 00-0534        | EA  | 1" IPS, Shallow Chrome Plated Steel Escutcheon.....   |  | 10.03        | 4.59       |
| 22 11 19 00-0535        | EA  | 1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon .....  |  | 10.85        | 5.06       |
| 22 11 19 00-0536        | EA  | 1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon .....  |  | 11.97        | 5.36       |
| 22 11 19 00-0537        | EA  | 2" IPS, Shallow Chrome Plated Steel Escutcheon.....   |  | 13.60        | 6.12       |
| <b>22 11 19 00-0538</b> |     | <b>Keyed, Recessed Valve Boxes (22 11 19)</b>   |  |              |            |
| 22 11 19 00-0539        | EA  | 8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box .....   |  | 375.42       | 45.75      |
| 22 11 19 00-0540        | EA  | 8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box .....   |  | 415.99       | 45.75      |
| 22 11 19 00-0541        | EA  | 8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box .....   |  | 476.83       | 45.75      |
| 22 11 19 00-0542        | EA  | 12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box .....   |  | 466.77       | 61.00      |
| 22 11 19 00-0543        | EA  | 12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box .....   |  | 527.61       | 61.00      |
| 22 11 19 00-0544        | EA  | 12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box .....   |  | 545.86       | 61.00      |
| 22 11 19 00-0545        | EA  | 8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....  |  | 440.32       | 45.75      |
| 22 11 19 00-0546        | EA  | 8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....  |  | 529.56       | 45.75      |
| 22 11 19 00-0547        | EA  | 8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....  |  | 608.66       | 45.75      |
| 22 11 19 00-0548        | EA  | 12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....  |  | 580.34       | 61.00      |
| 22 11 19 00-0549        | EA  | 12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....  |  | 659.44       | 61.00      |
| 22 11 19 00-0550        | EA  | 12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....  |  | 689.86       | 61.00      |
| <b>22 11 23</b>         |     | <b>Domestic Water Pumps (22 11)</b>   |  |              |            |
| <b>22 11 23 13</b>      |     | <b>Domestic Water Packaged Booster Pumps (22 11 23)</b>   |  |              |            |
|                         |     | Note: Includes motor starter and controls.  |  |              |            |
| <b>22 11 23 13-0001</b> |     | <b>Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)</b>   |  |              |            |
| 22 11 23 13-0002        | EA  | 1 HP Simplex Domestic Water Packaged Booster Pump And Tank .....  |  | 14,510.01    | 451.14     |
| 22 11 23 13-0003        | EA  | 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....  |  | 15,102.02    | 606.22     |
| 22 11 23 13-0004        | EA  | 2 HP Simplex Domestic Water Packaged Booster Pump And Tank .....  |  | 15,796.18    | 761.30     |
| 22 11 23 13-0005        | EA  | 3 HP Simplex Domestic Water Packaged Booster Pump And Tank .....  |  | 16,439.27    | 916.37     |
| 22 11 23 13-0006        | EA  | 5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....  |  | 18,206.04    | 1,071.45   |
| 22 11 23 13-0007        | EA  | 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....  |  | 20,228.20    | 1,226.53   |
| 22 11 23 13-0008        | EA  | 10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....  |  | 21,637.44    | 1,381.61   |
| <b>22 11 23 13-0009</b> |     | <b>Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)</b>  |  |              |            |
| 22 11 23 13-0010        | EA  | 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....   |  | 39,144.42    | 1,825.61   |
| 22 11 23 13-0011        | EA  | 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....   |  | 47,114.20    | 1,939.71   |
| 22 11 23 13-0012        | EA  | 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....   |  | 55,116.55    | 2,053.81   |
| <b>22 11 23 13-0013</b> |     | <b>Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)</b>   |  |              |            |
| 22 11 23 13-0014        | EA  | 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 51,468.51    | 1,939.71   |
| 22 11 23 13-0015        | EA  | 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 64,033.95    | 2,053.81   |
| 22 11 23 13-0016        | EA  | 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 79,554.69    | 2,282.01   |
| 22 11 23 13-0017        | EA  | 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 100,736.68   | 2,510.20   |
| 22 11 23 13-0018        | EA  | 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 121,918.67   | 2,738.40   |
| 22 11 23 13-0019        | EA  | 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 142,018.31   | 3,080.71   |
| 22 11 23 13-0020        | EA  | 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 162,117.96   | 3,423.01   |
| 22 11 23 13-0021        | EA  | 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 182,217.61   | 3,765.31   |
| 22 11 23 13-0022        | EA  | 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....   |  | 202,602.51   | 4,221.71   |
| <b>22 11 23 13-0023</b> |     | <b>Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)</b>   |  |              |            |
|                         |     | Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control. |  |              |            |



|  |                                    |              |
|--|------------------------------------|--------------|
|  | <b>Plumbing</b>                    | <b>22</b>    |
|  | <b>Plumbing Piping</b>             | <b>22 10</b> |
|  | <b>Facility Water Distribution</b> | <b>22 11</b> |

| MINOR  | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|---------|-----|---|------------------------|----------------------|
| 22 11 23   | 13-0024 | EA  | 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1).....  | 42,383.75              | 1,909.62             |
| 22 11 23   | 13-0025 | EA  | 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2).....                 | 44,314.44              | 1,909.62             |
| 22 11 23   | 13-0026 | EA  | 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3).....                       | 47,073.17              | 1,909.62             |
| 22 11 23   | 13-0027 | EA  | 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4).....             | 51,049.85              | 1,909.62             |
| 22 11 23   | 13-0028 | EA  | 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5).....                | 48,216.36              | 2,028.97             |
| 22 11 23   | 13-0029 | EA  | 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....                | 51,687.83              | 2,028.97             |
| 22 11 23   | 13-0030 | EA  | 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....              | 56,402.41              | 2,028.97             |
| 22 11 23   | 13-0031 | EA  | 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....                                | 60,234.45              | 2,028.97             |
| 22 11 23   | 13-0032 | EA  | 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....                                  | 52,675.90              | 2,148.32             |
| 22 11 23   | 13-0033 | EA  | 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....                                 | 56,103.35              | 2,148.32             |
| 22 11 23   | 13-0034 | EA  | 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....                                | 63,767.42              | 2,148.32             |
| 22 11 23   | 13-0035 | EA  | 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....                               | 76,630.32              | 2,148.32             |
| 22 11 23   | 13-0036 | EA  | 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....                                       | 55,621.20              | 2,148.32             |
| 22 11 23   | 13-0037 | EA  | 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....                                 | 62,612.36              | 2,148.32             |
| 22 11 23   | 13-0038 | EA  | 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....                                | 78,001.30              | 2,148.32             |
| 22 11 23   | 13-0039 | EA  | 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....                               | 77,556.88              | 2,148.32             |
| 22 11 23   | 13-0040 | EA  | 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....                                      | 92,479.75              | 2,387.02             |
| 22 11 23   | 13-0041 | EA  | 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....                                 | 63,655.63              | 2,387.02             |
| 22 11 23   | 13-0042 | EA  | 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19)..... | 77,669.40              | 2,387.02             |
| 22 11 23   | 13-0043 | EA  | 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....                                      | 77,227.08              | 2,387.02             |
| 22 11 23   | 13-0044 | EA  | 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....                               | 93,167.34              | 2,387.02             |
| 22 11 23   | 13-0045 | EA  | 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....                               | 112,665.03             | 2,387.02             |
| 22 11 23   | 13-0046 | EA  | 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....   | 53,519.29              | 1,909.62             |
| 22 11 23   | 13-0047 |     | <b>Variable Speed Triplex Domestic Water Pressure Booster Skid</b> <sup>(22 11 23 13)</sup>   |                        |                      |
| <p>Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.</p> |         |     |   |                        |                      |
| 22 11 23   | 13-0048 | EA  | 60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....               | 53,519.29              | 1,909.62             |
| 22 11 23   | 13-0049 | EA  | 120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....                                      | 59,845.93              | 1,909.62             |
| 22 11 23   | 13-0050 | EA  | 60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....            | 65,304.69              | 1,909.62             |
| 22 11 23   | 13-0051 | EA  | 180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....  | 60,144.31              | 2,028.97             |
| 22 11 23   | 13-0052 | EA  | 180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....                                      | 65,565.34              | 2,028.97             |
| 22 11 23   | 13-0053 | EA  | 240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....  | 61,410.47              | 2,028.97             |
| 22 11 23   | 13-0054 | EA  | 240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....  | 66,070.55              | 2,028.97             |
| 22 11 23   | 13-0055 | EA  | 240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....                                       | 72,478.94              | 2,028.97             |
| 22 11 23   | 13-0056 | EA  | 240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....                                     | 77,790.96              | 2,028.97             |
| 22 11 23   | 13-0057 | EA  | 300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....                                       | 62,014.91              | 2,148.32             |
| 22 11 23   | 13-0058 | EA  | 300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....                                       | 66,674.99              | 2,148.32             |
| 22 11 23   | 13-0059 | EA  | 300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....                                      | 73,081.28              | 2,148.32             |
| 22 11 23   | 13-0060 | EA  | 300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....                                     | 78,393.30              | 2,148.32             |
| 22 11 23   | 13-0061 | EA  | 360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....              | 67,255.66              | 2,148.32             |
| 22 11 23   | 13-0062 | EA  | 360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....              | 71,731.26              | 2,148.32             |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 11 23 13-0063 EA 360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....           | 82,789.25                 | 2,148.32                |
| 22 11 23 13-0064 EA 360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....         | 100,834.20                | 2,148.32                |
| 22 11 23 13-0065 EA 480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....  | 68,766.41                 | 2,387.02                |
| 22 11 23 13-0066 EA 480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....      | 73,244.11                 | 2,387.02                |
| 22 11 23 13-0067 EA 480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....                                     | 84,302.09                 | 2,387.02                |
| 22 11 23 13-0068 EA 480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....                                    | 102,344.94                | 2,387.02                |
| 22 11 23 13-0069 EA 540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....                         | 72,518.79                 | 2,387.02                |
| 22 11 23 13-0070 EA 540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....             | 82,568.45                 | 2,387.02                |
| 22 11 23 13-0071 EA 540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....          | 104,399.32                | 2,387.02                |
| 22 11 23 13-0072 EA 540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....         | 106,514.48                | 2,387.02                |
| 22 11 23 13-0073 EA 540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27).....         | 131,856.65                | 2,387.02                |
| 22 11 23 13-0074 EA 660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28).....             | 82,212.78                 | 2,864.42                |
| 22 11 23 13-0075 EA 660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29)..... | 98,775.65                 | 2,864.42                |
| 22 11 23 13-0076 EA 660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30).....       | 105,056.16                | 2,864.42                |
| 22 11 23 13-0077 EA 660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31).....                | 126,599.84                | 2,864.42                |
| 22 11 23 13-0078 EA 660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32).....                | 156,746.73                | 2,864.42                |

**22 11 23 23 Domestic-Water In-Line Pumps <sup>(22 11 23)</sup>**

**22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps <sup>(22 11 23 23)</sup>**  
 Note: ODP motor.

|  |           |        |
|--|-----------|--------|
| 22 11 23 23-0002 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)..... | 1,361.55  | 253.77 |
| 22 11 23 23-0003 EA 1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....            | 1,397.39  | 253.77 |
| 22 11 23 23-0004 EA 1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....    | 1,462.09  | 258.70 |
| 22 11 23 23-0005 EA 1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....          | 1,610.37  | 269.27 |
| 22 11 23 23-0006 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....              | 2,874.75  | 279.25 |
| 22 11 23 23-0007 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....                | 3,065.50  | 279.25 |
| 22 11 23 23-0008 EA 1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....        | 4,575.35  | 307.46 |
| 22 11 23 23-0009 EA 1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....             | 4,772.15  | 337.79 |
| 22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....             | 5,775.54  | 371.63 |
| 22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....             | 5,904.69  | 409.02 |
| 22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....             | 6,457.47  | 449.21 |
| 22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....               | 9,245.45  | 494.34 |
| 22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....           | 10,647.46 | 518.32 |

**22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps <sup>(22 11 23 23)</sup>**  
 Note: ODP motor.

|  |           |        |
|--|-----------|--------|
| 22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30).....   | 1,417.51  | 253.77 |
| 22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....              | 2,361.54  | 253.77 |
| 22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....      | 2,371.74  | 258.70 |
| 22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....            | 2,412.84  | 264.34 |
| 22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....            | 2,422.70  | 269.27 |
| 22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....                | 2,468.58  | 279.25 |
| 22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....           | 3,015.57  | 307.46 |
| 22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....                | 3,889.38  | 371.63 |
| 22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....               | 4,098.55  | 409.02 |
| 22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....               | 4,782.35  | 449.21 |
| 22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....                 | 6,448.18  | 494.34 |
| 22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....             | 7,535.69  | 518.32 |
| 22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....         | 6,769.37  | 544.41 |
| 22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....         | 7,277.66  | 598.42 |
| 22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....         | 7,995.47  | 634.68 |
| 22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)..... | 10,122.81 | 705.20 |
| 22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....    | 10,742.55 | 846.37 |
| 22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....    | 13,698.30 | 987.69 |

**22 12 Facility Potable-Water Storage Tanks <sup>(22 10)</sup>**

**22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks <sup>(22 12)</sup>**

**22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks <sup>(22 12 19)</sup>**

|  |           |           |
|--|-----------|-----------|
| 22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....  | 42,256.78 | 9,744.59  |
| 22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank..... | 48,056.08 | 9,744.59  |
| 22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank..... | 86,780.13 | 15,037.97 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....   | 112,006.52                | 19,489.17               |
| <b>22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)</b>   |                           |                         |
| 22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....   | 50,848.33                 | 9,744.59                |
| 22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....  | 71,038.48                 | 9,744.59                |
| 22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....  | 105,842.70                | 15,037.97               |
| 22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....  | 152,520.05                | 19,489.17               |
| <b>22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)</b>  |                           |                         |
| <b>22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)</b>  |                           |                         |
| <b>22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)</b>                                  |                           |                         |
| 22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....        | 2,883.54                  | 563.93                  |
| 22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M) .....                    | 3,574.75                  | 704.91                  |
| 22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....    | 6,393.87                  | 775.39                  |
| 22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....    | 7,066.40                  | 845.88                  |
| 22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....    | 13,740.26                 | 916.37                  |
| 22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....    | 11,916.10                 | 986.86                  |
| 22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....    | 20,207.98                 | 1,057.35                |
| 22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....    | 18,681.90                 | 1,127.84                |
| 22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....    | 20,284.64                 | 1,198.33                |
| 22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A)..... | 24,107.19                 | 1,268.82                |
| <b>22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)</b>  |                           |                         |
| 22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....  | 2,499.20                  | 563.93                  |
| 22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S) .....                                     | 4,657.26                  | 704.91                  |
| 22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A) .....                    | 5,782.62                  | 775.39                  |
| 22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....                                      | 7,104.23                  | 845.88                  |
| 22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A) .....                    | 6,083.00                  | 845.88                  |
| 22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A) .....                    | 9,255.58                  | 916.37                  |
| 22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A) .....                    | 10,015.14                 | 986.86                  |
| 22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....                                      | 9,551.21                  | 986.86                  |
| 22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A) .....                    | 8,748.68                  | 986.86                  |
| 22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A) .....                    | 11,857.20                 | 1,057.35                |
| 22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A) .....                    | 12,855.41                 | 1,127.84                |
| 22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A) .....                    | 14,881.95                 | 1,198.33                |
| 22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A) .....                 | 27,543.51                 | 1,268.82                |
| <b>22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)</b>  |                           |                         |
| <b>22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)</b>  |                           |                         |
| Note: Excludes excavation and backfill.  |                           |                         |
| 22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 824.23                    | 317.21                  |
| For Saddle Assembly, Add   | 911.06                    |                         |
| 22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 965.13                    | 370.07                  |
| For Saddle Assembly, Add   | 911.06                    |                         |
| 22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 1,141.23                  | 422.94                  |
| For Saddle Assembly, Add   | 1,030.75                  |                         |
| 22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 1,380.69                  | 475.81                  |
| For Saddle Assembly, Add   | 1,497.77                  |                         |
| 22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 1,645.97                  | 528.68                  |
| For Two Tie Down Bands, Add  | 530.68                    |                         |
| 22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 2,049.24                  | 655.28                  |
| For Two Tie Down Bands, Add  | 563.54                    |                         |
| 22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 3,033.32                  | 764.50                  |
| For Three Tie Down Bands, Add  | 950.91                    |                         |
| 22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 4,344.91                  | 873.70                  |
| For Three Tie Down Bands, Add  | 957.95                    |                         |
| 22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 5,408.14                  | 982.92                  |
| For Four Tie Down Bands, Add   | 1,296.05                  |                         |
| 22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 6,326.94                  | 1,092.13                |
| For Four Tie Down Bands, Add   | 1,774.81                  |                         |
| 22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 8,994.34                  | 1,201.34                |
| For Four Tie Down Bands, Add   | 2,300.51                  |                         |
| 22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 10,407.26                 | 1,310.56                |
| For Four Tie Down Bands, Add   | 2,478.87                  |                         |
| 22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 14,930.31                 | 1,747.41                |
| For Four Tie Down Bands, Add   | 2,788.65                  |                         |
| 22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank .....  | 19,243.60                 | 1,747.41                |
| For Five Tie Down Bands, Add   | 4,342.41                  |                         |

**22 Plumbing**

**22 10 Plumbing Piping**

**22 12 Facility Potable-Water Storage Tanks**



| MINOR CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|--|------------------------|----------------------|
| 22 12 23 26-0016 |     | <b>Vertical Non-Pressurized Polyethylene Tanks</b> <small>(22 12 23 26)</small>  |                        |                      |
| 22 12 23 26-0017 | EA  | 100 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 918.28                 | 422.94               |
| 22 12 23 26-0018 | EA  | 160 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 1,091.99               | 449.37               |
| 22 12 23 26-0019 | EA  | 210 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 1,195.29               | 475.81               |
| 22 12 23 26-0020 | EA  | 300 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 1,437.10               | 528.68               |
| 22 12 23 26-0021 | EA  | 405 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 1,646.13               | 634.42               |
| 22 12 23 26-0022 | EA  | 500 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 1,942.00               | 740.15               |
| 22 12 23 26-0023 | EA  | 800 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 2,582.42               | 873.70               |
| 22 12 23 26-0024 | EA  | 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 3,338.33               | 1,092.13             |
| 22 12 23 26-0025 | EA  | 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 4,465.04               | 1,310.56             |
| 22 12 23 26-0026 | EA  | 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 5,812.36               | 1,528.99             |
| 22 12 23 26-0027 | EA  | 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 8,480.95               | 1,747.41             |
| 22 12 23 26-0028 | EA  | 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 11,426.48              | 1,965.84             |
| 22 12 23 26-0029 | EA  | 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 12,947.47              | 2,184.27             |
| 22 12 23 26-0030 | EA  | 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 14,266.63              | 2,402.70             |
| 22 12 23 26-0031 | EA  | 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 16,416.56              | 2,621.12             |
| 22 12 23 26-0032 | EA  | 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....   | 18,526.60              | 2,839.55             |
| 22 12 23 26-0033 | EA  | 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....  | 22,866.16              | 3,057.97             |
| 22 12 23 26-0034 | EA  | 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....  | 27,485.22              | 3,494.83             |
| <b>22 13</b>     |     | <b>Facility Sanitary Sewerage</b> <small>(22 10)</small>   |                        |                      |
| <b>22 13 13</b>  |     | <b>Facility Sanitary Sewers</b> <small>(22 13)</small>   |                        |                      |
| 22 13 13 00-0001 |     | <b>Fixture Rough-In</b> <small>(22 13 13)</small>  |                        |                      |
|                  |     | Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers. |                        |                      |
| 22 13 13 00-0002 |     | <b>Single Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <small>(22 13 13 00-0001)</small>  |                        |                      |
|                  |     | Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.  |                        |                      |
| 22 13 13 00-0003 | EA  | Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....   | 1,333.64               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.   |                        |                      |
| 22 13 13 00-0004 | EA  | Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....  | 1,756.33               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  |                        |                      |
| 22 13 13 00-0005 | EA  | Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....   | 1,216.08               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.   |                        |                      |
| 22 13 13 00-0006 | EA  | Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 785.62                 |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  |                        |                      |
| 22 13 13 00-0007 | EA  | Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....  | 925.75                 |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   |                        |                      |
| 22 13 13 00-0008 | EA  | Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....  | 1,183.58               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                        |                      |
| 22 13 13 00-0009 | EA  | Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....  | 1,257.13               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                        |                      |
| 22 13 13 00-0010 | EA  | Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....   | 760.12                 |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.   |                        |                      |
| 22 13 13 00-0011 | EA  | Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 1,216.08               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                        |                      |
| 22 13 13 00-0012 | EA  | Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....  | 1,253.00               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   |                        |                      |
| 22 13 13 00-0013 | EA  | Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 1,182.49               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.   |                        |                      |
| 22 13 13 00-0014 | EA  | Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 1,333.64               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                        |                      |
| 22 13 13 00-0015 | EA  | Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....   | 2,088.53               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.   |                        |                      |
| 22 13 13 00-0016 | EA  | Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....   | 1,292.40               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.   |                        |                      |
| 22 13 13 00-0017 |     | <b>Double Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <small>(22 13 13 00-0001)</small>  |                        |                      |
|                  |     | Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.  |                        |                      |
| 22 13 13 00-0018 | EA  | Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....   | 1,730.02               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.   |                        |                      |
| 22 13 13 00-0019 | EA  | Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....  | 2,353.92               |                      |
|                  |     | Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 1,494.34                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.   |                           |                         |
| 22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 936.84                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  |                           |                         |
| 22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 1,262.40                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   |                           |                         |
| 22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 1,336.61                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                           |                         |
| 22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 886.78                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.   |                           |                         |
| 22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 1,508.42                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                           |                         |
| 22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 1,318.88                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   |                           |                         |
| 22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 1,283.67                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.   |                           |                         |
| 22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 1,730.02                  |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.   |                           |                         |
| <b>22 13 13 00-0029 Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)</b>  |                           |                         |
| Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.                   |                           |                         |
| 22 13 13 00-0030 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 864.35                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.   |                           |                         |
| 22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 1,176.97                  |                         |
| Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.  |                           |                         |
| 22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 747.86                    |                         |
| Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.   |                           |                         |
| 22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 469.13                    |                         |
| Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.  |                           |                         |
| 22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 631.23                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   |                           |                         |
| 22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 668.28                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                           |                         |
| 22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 478.62                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.   |                           |                         |
| 22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And<br>Copper Domestic Supply, Not Including Fixture Or Faucet..... | 753.52                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                           |                         |
| 22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 659.44                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   |                           |                         |
| 22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....  | 642.50                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.   |                           |                         |
| 22 13 13 00-0040 EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....   | 854.46                    |                         |
| Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  |                           |                         |
| <b>22 13 13 00-0041 Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe (22 13 13 00-0001)</b>   |                           |                         |
| Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.                                |                           |                         |
| 22 13 13 00-0042 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet.....  | 804.75                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.  |                           |                         |
| 22 13 13 00-0043 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet.....   | 899.61                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.   |                           |                         |
| 22 13 13 00-0044 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water<br>Closet.....  | 762.04                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.  |                           |                         |
| 22 13 13 00-0045 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal.....   | 461.53                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.   |                           |                         |
| 22 13 13 00-0046 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory.....   | 541.15                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.  |                           |                         |
| 22 13 13 00-0047 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink.....   | 732.19                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.   |                           |                         |
| 22 13 13 00-0048 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub.....  | 744.36                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.   |                           |                         |
| 22 13 13 00-0049 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler.....  | 455.94                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.  |                           |                         |
| 22 13 13 00-0050 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink.....  | 762.04                    |                         |
| Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.   |                           |                         |



**22 Plumbing****22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 13 00-0051 EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   | 808.00                    |                         |
| 22 13 13 00-0052 EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.  | 746.19                    |                         |
| 22 13 13 00-0053 EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  | 804.58                    |                         |
| 22 13 13 00-0054 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.  | 1,243.89                  |                         |
| 22 13 13 00-0055 EA Bathroom/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.   | 775.19                    |                         |
| <b>22 13 13 00-0056 Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe</b> <sup>(22 13 00-0001)</sup><br>Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings. |                           |                         |
| 22 13 13 00-0057 EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.  | 984.17                    |                         |
| 22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  | 1,178.41                  |                         |
| 22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.   | 855.29                    |                         |
| 22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  | 516.26                    |                         |
| 22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.   | 753.35                    |                         |
| 22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.  | 787.57                    |                         |
| 22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.   | 501.77                    |                         |
| 22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.   | 867.83                    |                         |
| 22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   | 831.84                    |                         |
| 22 13 13 00-0066 EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.  | 800.39                    |                         |
| 22 13 13 00-0067 EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  | 984.17                    |                         |
| <b>22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe</b> <sup>(22 13 00-0001)</sup><br>Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.                |                           |                         |
| 22 13 13 00-0069 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.  | 491.50                    |                         |
| 22 13 13 00-0070 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  | 588.52                    |                         |
| 22 13 13 00-0071 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.  | 428.06                    |                         |
| 22 13 13 00-0072 EA Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.  | 258.19                    |                         |
| 22 13 13 00-0073 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   | 376.64                    |                         |
| 22 13 13 00-0074 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.  | 393.43                    |                         |
| 22 13 13 00-0075 EA Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.  | 250.87                    |                         |
| 22 13 13 00-0076 EA Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.   | 433.79                    |                         |
| 22 13 13 00-0077 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.   | 415.97                    |                         |
| 22 13 13 00-0078 EA Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.  | 400.79                    |                         |



|                                   |              |           |
|-----------------------------------|--------------|-----------|
| <b>Plumbing</b>                   | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>            | <b>22 10</b> |           |
| <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 13 00-0079 EA Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....482.16<br>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.                          | 482.16                    |                         |
| <b>22 13 16 Sanitary Waste and Vent Piping (22 13)</b>  |                           |                         |
| 22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)  |                           |                         |
| 22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)<br>Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available. |                           |                         |
| 22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....43.64<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                       | 43.64                     | 8.88                    |
| For Work In Restricted Working Space, Add   | 6.52                      |                         |
| 22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....62.28<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                       | 62.28                     | 13.39                   |
| For Work In Restricted Working Space, Add   | 8.84                      |                         |
| 22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....80.79<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                       | 80.79                     | 17.05                   |
| For Work In Restricted Working Space, Add   | 11.37                     |                         |
| 22 13 16 00-0006 LF 5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....91.85<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                       | 91.85                     | 19.49                   |
| For Work In Restricted Working Space, Add   | 10.97                     |                         |
| 22 13 16 00-0007 LF 6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....107.93<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                      | 107.93                    | 21.23                   |
| For Work In Restricted Working Space, Add   | 12.18                     |                         |
| 22 13 16 00-0008 LF 8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....172.01<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                      | 172.01                    | 30.51                   |
| For Work In Restricted Working Space, Add   | 17.28                     |                         |
| 22 13 16 00-0009 LF 10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....252.89<br>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.                     | 252.89                    | 30.51                   |
| For Work In Restricted Working Space, Add   | 19.56                     |                         |
| 22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)<br>Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   |                           |                         |
| 22 13 16 00-0011 LF 1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....38.63<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 38.63                     | 8.46                    |
| For Work In Restricted Working Space, Add   | 7.43                      |                         |
| 22 13 16 00-0012 LF 2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....41.00<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 41.00                     | 9.02                    |
| For Work In Restricted Working Space, Add   | 7.98                      |                         |
| 22 13 16 00-0013 LF 3" Aboveground No Hub Cast Iron Soil Pipe Assembly .....52.27<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 52.27                     | 13.11                   |
| For Work In Restricted Working Space, Add   | 9.79                      |                         |
| 22 13 16 00-0014 LF 4" Aboveground No Hub Cast Iron Soil Pipe Assembly .....62.44<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 62.44                     | 17.05                   |
| For Work In Restricted Working Space, Add   | 11.70                     |                         |
| 22 13 16 00-0015 LF 5" Aboveground No Hub Cast Iron Soil Pipe Assembly .....77.08<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 77.08                     | 19.11                   |
| For Work In Restricted Working Space, Add   | 12.97                     |                         |
| 22 13 16 00-0016 LF 6" Aboveground No Hub Cast Iron Soil Pipe Assembly .....87.35<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 87.35                     | 20.86                   |
| For Work In Restricted Working Space, Add   | 14.14                     |                         |
| 22 13 16 00-0017 LF 8" Aboveground No Hub Cast Iron Soil Pipe Assembly .....135.53<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 135.53                    | 30.26                   |
| For Work In Restricted Working Space, Add   | 19.70                     |                         |
| 22 13 16 00-0018 LF 10" Aboveground No Hub Cast Iron Soil Pipe Assembly .....189.22<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.   | 189.22                    | 34.38                   |
| For Work In Restricted Working Space, Add   | 22.89                     |                         |
| 22 13 16 00-0019 Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16)<br>Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).  |                           |                         |
| 22 13 16 00-0020 Bell And Spigot Cast Iron Pipe (22 13 16 00-0019)<br>Note: Excludes excavation, hangers, gaskets, and fittings.  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 16 00-0021 LF 2" Bell And Spigot Cast Iron Pipe .....                       | 30.97                     | 8.88                    |
| For Extra Heavy Pipe, Add   | 7.37                      |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 0.67                      |                         |
| For Work In Restricted Working Space, Add   | 4.03                      |                         |
| 22 13 16 00-0022 LF 3" Bell And Spigot Cast Iron Pipe .....                       | 45.29                     | 13.39                   |
| For Extra Heavy Pipe, Add   | 10.56                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 1.01                      |                         |
| For Work In Restricted Working Space, Add   | 6.04                      |                         |
| 22 13 16 00-0023 LF 4" Bell And Spigot Cast Iron Pipe .....                       | 58.33                     | 17.05                   |
| For Extra Heavy Pipe, Add   | 13.73                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 1.28                      |                         |
| For Work In Restricted Working Space, Add   | 7.69                      |                         |
| 22 13 16 00-0024 LF 5" Bell And Spigot Cast Iron Pipe .....                       | 75.30                     | 19.49                   |
| For Extra Heavy Pipe, Add   | 19.38                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 1.46                      |                         |
| For Work In Restricted Working Space, Add   | 8.75                      |                         |
| 22 13 16 00-0025 LF 6" Bell And Spigot Cast Iron Pipe .....                       | 87.99                     | 21.23                   |
| For Extra Heavy Pipe, Add   | 23.60                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 1.59                      |                         |
| For Work In Restricted Working Space, Add   | 9.54                      |                         |
| 22 13 16 00-0026 LF 8" Bell And Spigot Cast Iron Pipe .....                       | 133.19                    | 30.51                   |
| For Extra Heavy Pipe, Add   | 36.71                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 2.29                      |                         |
| For Work In Restricted Working Space, Add   | 13.73                     |                         |
| 22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe .....                      | 197.03                    | 34.38                   |
| For Extra Heavy Pipe, Add   | 61.12                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 2.58                      |                         |
| For Work In Restricted Working Space, Add   | 15.45                     |                         |
| 22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe .....                      | 280.09                    | 45.83                   |
| For Extra Heavy Pipe, Add   | 88.79                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 3.43                      |                         |
| For Work In Restricted Working Space, Add   | 20.60                     |                         |
| 22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe .....                      | 391.39                    | 54.98                   |
| For Extra Heavy Pipe, Add   | 129.77                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 4.12                      |                         |
| For Work In Restricted Working Space, Add   | 24.72                     |                         |
| <b>22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)</b>     |                           |                         |
| <b>22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)</b>  |                           |                         |
| 22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep .....                 | 119.56                    | 40.46                   |
| For Extra Heavy Fittings, Add   | 20.62                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 3.03                      |                         |
| For Work In Restricted Working Space, Add   | 18.19                     |                         |
| 22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep .....                 | 195.74                    | 50.89                   |
| For Extra Heavy Fittings, Add   | 41.84                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 3.81                      |                         |
| For Work In Restricted Working Space, Add   | 22.86                     |                         |
| 22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep .....                 | 260.75                    | 67.68                   |
| For Extra Heavy Fittings, Add   | 55.77                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 5.07                      |                         |
| For Work In Restricted Working Space, Add   | 30.43                     |                         |
| 22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep .....                 | 391.83                    | 82.45                   |
| For Extra Heavy Fittings, Add   | 93.89                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 6.18                      |                         |
| For Work In Restricted Working Space, Add   | 37.07                     |                         |
| 22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep .....                 | 759.26                    | 107.38                  |
| For Extra Heavy Fittings, Add   | 209.41                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 8.05                      |                         |
| For Work In Restricted Working Space, Add   | 48.29                     |                         |
| 22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep .....                | 1,033.77                  | 132.11                  |
| For Extra Heavy Fittings, Add   | 292.49                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 9.90                      |                         |
| For Work In Restricted Working Space, Add   | 59.43                     |                         |
| 22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep .....                | 1,579.35                  | 184.38                  |
| For Extra Heavy Fittings, Add   | 456.02                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 13.82                     |                         |
| For Work In Restricted Working Space, Add   | 82.94                     |                         |
| 22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep .....                | 2,904.86                  | 256.74                  |
| For Extra Heavy Fittings, Add   | 881.98                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 19.25                     |                         |
| For Work In Restricted Working Space, Add   | 115.48                    |                         |
| <b>22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)</b> |                           |                         |
| 22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep .....                | 104.00                    | 40.46                   |
| For Extra Heavy Fittings, Add   | 15.18                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 3.03                      |                         |
| For Work In Restricted Working Space, Add   | 18.19                     |                         |
| 22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep .....                | 169.63                    | 50.89                   |
| For Extra Heavy Fittings, Add   | 32.70                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                 | 3.81                      |                         |
| For Work In Restricted Working Space, Add   | 22.86                     |                         |



| MINOR                   |     |   | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|---|--------------|------------|
| CSI                     | UOM | DESCRIPTION   | UNIT COST    | UNIT COST  |
| 22 13 16 00-0043        | EA  | 4" Bell And Spigot Cast Iron Short Sweep                      | 231.40       | 67.68      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 45.49        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 5.07         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 30.43        |            |
| 22 13 16 00-0044        | EA  | 5" Bell And Spigot Cast Iron Short Sweep                      | 329.76       | 70.07      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 78.66        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 5.25         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 31.51        |            |
| 22 13 16 00-0045        | EA  | 6" Bell And Spigot Cast Iron Short Sweep                      | 397.42       | 82.45      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 95.85        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 6.18         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 37.07        |            |
| 22 13 16 00-0046        | EA  | 8" Bell And Spigot Cast Iron Short Sweep                      | 646.76       | 107.38     |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 170.03       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 8.05         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 48.29        |            |
| 22 13 16 00-0047        | EA  | 10" Bell And Spigot Cast Iron Short Sweep                     | 937.78       | 132.11     |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 258.89       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 9.90         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 59.43        |            |
| 22 13 16 00-0048        | EA  | 12" Bell And Spigot Cast Iron Short Sweep                     | 1,543.55     | 184.38     |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 443.49       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 13.82        |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 82.94        |            |
| <b>22 13 16 00-0049</b> |     | <b>Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)</b> |              |            |
| 22 13 16 00-0050        | EA  | 2" Bell And Spigot Cast Iron 1/4 Bend                         | 95.13        | 40.32      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 12.12        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 3.03         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 18.15        |            |
| 22 13 16 00-0051        | EA  | 3" Bell And Spigot Cast Iron 1/4 Bend                         | 137.31       | 45.39      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 24.22        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 3.41         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 20.43        |            |
| 22 13 16 00-0052        | EA  | 4" Bell And Spigot Cast Iron 1/4 Bend                         | 194.52       | 60.49      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 36.35        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 4.53         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 27.20        |            |
| 22 13 16 00-0053        | EA  | 5" Bell And Spigot Cast Iron 1/4 Bend                         | 233.27       | 62.58      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 48.83        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 4.69         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 28.13        |            |
| 22 13 16 00-0054        | EA  | 6" Bell And Spigot Cast Iron 1/4 Bend                         | 280.51       | 74.94      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 58.82        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 5.62         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 33.74        |            |
| 22 13 16 00-0055        | EA  | 8" Bell And Spigot Cast Iron 1/4 Bend                         | 565.25       | 98.89      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 145.96       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 7.41         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 44.46        |            |
| 22 13 16 00-0056        | EA  | 10" Bell And Spigot Cast Iron 1/4 Bend                        | 825.13       | 120.01     |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 225.83       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 8.99         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 53.97        |            |
| 22 13 16 00-0057        | EA  | 12" Bell And Spigot Cast Iron 1/4 Bend                        | 1,082.43     | 141.64     |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 304.51       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 10.62        |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 63.72        |            |
| 22 13 16 00-0058        | EA  | 15" Bell And Spigot Cast Iron 1/4 Bend                        | 2,720.46     | 223.40     |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 834.95       |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 16.74        |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 100.46       |            |
| <b>22 13 16 00-0059</b> |     | <b>Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)</b> |              |            |
| 22 13 16 00-0060        | EA  | 2" Bell And Spigot Cast Iron 1/8 Bend                         | 88.29        | 40.46      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 9.68         |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 3.03         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 18.19        |            |
| 22 13 16 00-0061        | EA  | 3" Bell And Spigot Cast Iron 1/8 Bend                         | 133.25       | 50.89      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 19.97        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 3.81         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 22.86        |            |
| 22 13 16 00-0062        | EA  | 4" Bell And Spigot Cast Iron 1/8 Bend                         | 187.98       | 67.68      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 30.30        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 5.07         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 30.43        |            |
| 22 13 16 00-0063        | EA  | 5" Bell And Spigot Cast Iron 1/8 Bend                         | 226.52       | 78.32      |
|                         |     | <i>For Extra Heavy Fittings, Add</i>                          | 38.20        |            |
|                         |     | <i>For Above Ground Cast Iron Pipe Installation, Add</i>      | 5.87         |            |
|                         |     | <i>For Work In Restricted Working Space, Add</i>              | 35.21        |            |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend .....                    | 260.95                    | 87.32                   |
| For Extra Heavy Fittings, Add  | 45.49                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 6.55                      |                         |
| For Work In Restricted Working Space, Add  | 39.29                     |                         |
| 22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend .....                    | 502.81                    | 118.45                  |
| For Extra Heavy Fittings, Add  | 113.82                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 8.88                      |                         |
| For Work In Restricted Working Space, Add  | 53.28                     |                         |
| 22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend .....                   | 696.82                    | 146.14                  |
| For Extra Heavy Fittings, Add  | 167.18                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 10.96                     |                         |
| For Work In Restricted Working Space, Add  | 65.75                     |                         |
| 22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend .....                   | 1,110.60                  | 189.54                  |
| For Extra Heavy Fittings, Add  | 289.28                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 14.20                     |                         |
| For Work In Restricted Working Space, Add  | 85.22                     |                         |
| 22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend .....                   | 2,082.36                  | 223.40                  |
| For Extra Heavy Fittings, Add  | 611.62                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 16.74                     |                         |
| For Work In Restricted Working Space, Add  | 100.46                    |                         |
| <b>22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)</b>          |                           |                         |
| 22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye .....                         | 162.16                    | 90.37                   |
| For Extra Heavy Fittings, Add  | 9.31                      |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 6.78                      |                         |
| For Work In Restricted Working Space, Add  | 40.67                     |                         |
| 22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye .....                         | 198.22                    | 98.97                   |
| For Extra Heavy Fittings, Add  | 17.44                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 7.42                      |                         |
| For Work In Restricted Working Space, Add  | 44.52                     |                         |
| 22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye .....                         | 260.70                    | 129.70                  |
| For Extra Heavy Fittings, Add  | 23.21                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 9.72                      |                         |
| For Work In Restricted Working Space, Add  | 58.32                     |                         |
| 22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye .....                         | 312.60                    | 134.78                  |
| For Extra Heavy Fittings, Add  | 38.66                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 10.11                     |                         |
| For Work In Restricted Working Space, Add  | 60.64                     |                         |
| 22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye .....                         | 389.24                    | 159.77                  |
| For Extra Heavy Fittings, Add  | 52.39                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 11.98                     |                         |
| For Work In Restricted Working Space, Add  | 71.87                     |                         |
| 22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye .....                         | 691.36                    | 216.31                  |
| For Extra Heavy Fittings, Add  | 128.46                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 16.22                     |                         |
| For Work In Restricted Working Space, Add  | 97.30                     |                         |
| 22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye .....                        | 950.46                    | 245.42                  |
| For Extra Heavy Fittings, Add  | 203.90                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 18.39                     |                         |
| For Work In Restricted Working Space, Add  | 110.37                    |                         |
| 22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye .....                        | 1,385.07                  | 298.72                  |
| For Extra Heavy Fittings, Add  | 328.02                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 22.39                     |                         |
| For Work In Restricted Working Space, Add  | 134.36                    |                         |
| 22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye .....                        | 2,107.31                  | 335.16                  |
| For Extra Heavy Fittings, Add  | 561.69                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 150.74                    |                         |
| <b>22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)</b> |                           |                         |
| 22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye .....           | 237.33                    | 94.45                   |
| For Extra Heavy Fittings, Add  | 33.48                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 7.08                      |                         |
| For Work In Restricted Working Space, Add  | 42.50                     |                         |
| 22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye .....           | 289.55                    | 116.73                  |
| For Extra Heavy Fittings, Add  | 40.06                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 8.75                      |                         |
| For Work In Restricted Working Space, Add  | 52.53                     |                         |
| 22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye .....           | 318.89                    | 119.69                  |
| For Extra Heavy Fittings, Add  | 48.77                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 8.98                      |                         |
| For Work In Restricted Working Space, Add  | 53.87                     |                         |
| 22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye .....           | 446.76                    | 143.15                  |
| For Extra Heavy Fittings, Add  | 81.28                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 10.73                     |                         |
| For Work In Restricted Working Space, Add  | 64.36                     |                         |
| 22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye .....           | 458.02                    | 145.77                  |
| For Extra Heavy Fittings, Add  | 83.80                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                                  | 10.93                     |                         |
| For Work In Restricted Working Space, Add  | 65.58                     |                         |



|  |   |
|--|---|
|  | <b>Plumbing 22</b>                      |
|  | <b>Plumbing Piping 22 10</b>            |
|  | <b>Facility Sanitary Sewerage 22 13</b> |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                  | DEMOLITION UNIT COST |
|------------------|-----|-----|---|---|----------------------|
| 22 13 16 00-0085 | EA  |     | 6" x 4" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 480.33<br>86.51<br>11.66<br>69.95       | 155.52               |
| 22 13 16 00-0086 | EA  |     | 8" x 2" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 691.51<br>150.76<br>13.04<br>78.23      | 173.95               |
| 22 13 16 00-0087 | EA  |     | 8" x 3" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 721.37<br>159.46<br>13.29<br>79.73      | 177.30               |
| 22 13 16 00-0088 | EA  |     | 8" x 4" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 740.09<br>161.60<br>13.92<br>83.52      | 185.67               |
| 22 13 16 00-0089 | EA  |     | 8" x 6" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 870.37<br>196.23<br>15.49<br>92.91      | 206.53               |
| 22 13 16 00-0090 | EA  |     | 10" x 3" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,053.75<br>267.26<br>14.51<br>87.05    | 193.52               |
| 22 13 16 00-0091 | EA  |     | 10" x 4" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,096.42<br>277.71<br>15.15<br>90.89    | 202.02               |
| 22 13 16 00-0092 | EA  |     | 10" x 6" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,200.21<br>302.87<br>16.74<br>100.46   | 223.40               |
| 22 13 16 00-0093 | EA  |     | 10" x 8" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,568.32<br>424.60<br>17.76<br>106.56   | 236.92               |
| 22 13 16 00-0094 | EA  |     | 12" x 4" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,612.00<br>439.88<br>17.76<br>106.56   | 236.92               |
| 22 13 16 00-0095 | EA  |     | 12" x 6" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,681.00<br>453.62<br>19.25<br>115.48   | 256.74               |
| 22 13 16 00-0096 | EA  |     | 12" x 8" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,963.77<br>545.94<br>20.20<br>121.19   | 269.50               |
| 22 13 16 00-0097 | EA  |     | 12" x 10" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 2,371.19<br>684.31<br>20.80<br>124.81   | 277.48               |
| 22 13 16 00-0098 | EA  |     | 15" x 4" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 3,858.02<br>1,213.02<br>19.61<br>117.68 | 261.64               |
| 22 13 16 00-0099 | EA  |     | 15" x 6" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 4,029.69<br>1,261.79<br>21.23<br>127.38 | 283.15               |
| 22 13 16 00-0100 | EA  |     | 15" x 8" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 4,114.30<br>1,285.01<br>22.14<br>132.86 | 295.38               |
| 22 13 16 00-0101 | EA  |     | 15" x 10" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 4,211.10<br>1,313.65<br>22.89<br>137.34 | 305.41               |
| 22 13 16 00-0102 | EA  |     | 15" x 12" Bell And Spigot Cast Iron Reducing Wye<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 4,320.74<br>1,342.68<br>24.23<br>145.35 | 323.18               |
| 22 13 16 00-0103 |     |     | <b>Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>   |   |                      |
| 22 13 16 00-0104 | EA  |     | 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 173.55<br>13.30<br>6.78<br>40.67        | 90.37                |
| 22 13 16 00-0105 | EA  |     | 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 205.24<br>19.89<br>7.42<br>44.52        | 98.97                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....   | 272.92                    | 129.70                  |
| For Extra Heavy Fittings, Add  | 27.48                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 9.72                      |                         |
| For Work In Restricted Working Space, Add  | 58.32                     |                         |
| 22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....   | 354.20                    | 141.40                  |
| For Extra Heavy Fittings, Add  | 49.79                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 10.60                     |                         |
| For Work In Restricted Working Space, Add  | 63.58                     |                         |
| 22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....   | 443.04                    | 175.38                  |
| For Extra Heavy Fittings, Add  | 63.05                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 13.15                     |                         |
| For Work In Restricted Working Space, Add  | 78.87                     |                         |
| 22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....   | 787.70                    | 232.92                  |
| For Extra Heavy Fittings, Add  | 153.49                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 17.46                     |                         |
| For Work In Restricted Working Space, Add  | 104.75                    |                         |
| 22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....  | 1,126.86                  | 305.41                  |
| For Extra Heavy Fittings, Add  | 234.17                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 22.89                     |                         |
| For Work In Restricted Working Space, Add  | 137.34                    |                         |
| 22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....  | 1,505.45                  | 392.59                  |
| For Extra Heavy Fittings, Add  | 320.89                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 29.43                     |                         |
| For Work In Restricted Working Space, Add  | 176.58                    |                         |
| <b>22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small> |                           |                         |
| 22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 184.30                    | 94.45                   |
| For Extra Heavy Fittings, Add  | 14.92                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 7.08                      |                         |
| For Work In Restricted Working Space, Add  | 42.50                     |                         |
| 22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 253.39                    | 116.73                  |
| For Extra Heavy Fittings, Add  | 27.41                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 8.75                      |                         |
| For Work In Restricted Working Space, Add  | 52.53                     |                         |
| 22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 271.17                    | 119.69                  |
| For Extra Heavy Fittings, Add  | 32.07                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 8.98                      |                         |
| For Work In Restricted Working Space, Add  | 53.87                     |                         |
| 22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 378.33                    | 143.15                  |
| For Extra Heavy Fittings, Add  | 57.33                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 10.73                     |                         |
| For Work In Restricted Working Space, Add  | 64.36                     |                         |
| 22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 393.06                    | 145.77                  |
| For Extra Heavy Fittings, Add  | 61.06                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 10.93                     |                         |
| For Work In Restricted Working Space, Add  | 65.58                     |                         |
| 22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 416.95                    | 155.52                  |
| For Extra Heavy Fittings, Add  | 64.32                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 11.66                     |                         |
| For Work In Restricted Working Space, Add  | 69.95                     |                         |
| 22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 564.41                    | 173.95                  |
| For Extra Heavy Fittings, Add  | 106.27                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 13.04                     |                         |
| For Work In Restricted Working Space, Add  | 78.23                     |                         |
| 22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 582.02                    | 185.67                  |
| For Extra Heavy Fittings, Add  | 106.27                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 13.92                     |                         |
| For Work In Restricted Working Space, Add  | 83.52                     |                         |
| 22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....                           | 726.53                    | 206.53                  |
| For Extra Heavy Fittings, Add  | 145.89                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 15.49                     |                         |
| For Work In Restricted Working Space, Add  | 92.91                     |                         |
| <b>22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes</b> <small>(22 13 16 00-0030)</small>                            |                           |                         |
| 22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye.....   | 267.11                    | 108.13                  |
| For Extra Heavy Fittings, Add  | 36.77                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 8.10                      |                         |
| For Work In Restricted Working Space, Add  | 48.62                     |                         |
| 22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye.....   | 380.70                    | 136.33                  |
| For Extra Heavy Fittings, Add  | 61.73                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 10.22                     |                         |
| For Work In Restricted Working Space, Add  | 61.30                     |                         |
| 22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye.....   | 511.82                    | 172.42                  |
| For Extra Heavy Fittings, Add  | 88.63                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 12.93                     |                         |
| For Work In Restricted Working Space, Add  | 77.57                     |                         |
| 22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye.....   | 929.80                    | 245.45                  |
| For Extra Heavy Fittings, Add  | 196.62                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add  | 18.40                     |                         |
| For Work In Restricted Working Space, Add  | 110.41                    |                         |



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                  | DEMOLITION UNIT COST |
|---|-----|-----|---|---|----------------------|
| 22 13 16 00-0127  | EA  |     | 8" Bell And Spigot Cast Iron Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 1,805.73<br>478.59<br>21.92<br>131.50   | 292.41               |
| 22 13 16 00-0128  | EA  |     | 10" Bell And Spigot Cast Iron Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                         | 2,374.34<br>659.34<br>24.53<br>147.15   | 327.18               |
| 22 13 16 00-0129  | EA  |     | 12" Bell And Spigot Cast Iron Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                         | 1,697.62<br>388.15<br>29.43<br>176.58   | 392.59               |
| 22 13 16 00-0130  | EA  |     | 15" Bell And Spigot Cast Iron Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                         | 4,571.99<br>1,383.87<br>30.90<br>185.42 | 412.03               |
| <b>22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)</b>                 |     |     |   |   |                      |
| 22 13 16 00-0132  | EA  |     | 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 253.74<br>21.69<br>9.59<br>57.53        | 127.87               |
| 22 13 16 00-0133  | EA  |     | 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 294.21<br>25.88<br>11.01<br>66.08       | 146.90               |
| 22 13 16 00-0134  | EA  |     | 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 316.76<br>29.98<br>11.56<br>69.33       | 154.09               |
| 22 13 16 00-0135  | EA  |     | 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 383.07<br>44.74<br>12.76<br>76.57       | 170.26               |
| 22 13 16 00-0136  | EA  |     | 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 404.98<br>49.00<br>13.25<br>79.49       | 176.75               |
| 22 13 16 00-0137  | EA  |     | 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 462.81<br>60.84<br>14.45<br>86.69       | 192.74               |
| 22 13 16 00-0138  | EA  |     | 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 723.73<br>135.10<br>16.89<br>101.32     | 225.33               |
| 22 13 16 00-0139  | EA  |     | 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 794.88<br>138.25<br>19.99<br>119.96     | 266.66               |
| 22 13 16 00-0140  | EA  |     | 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 771.31<br>143.46<br>18.07<br>108.43     | 241.04               |
| 22 13 16 00-0141  | EA  |     | 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 899.61<br>166.26<br>21.23<br>127.38     | 283.15               |
| 22 13 16 00-0142  | EA  |     | 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,096.13<br>221.68<br>23.14<br>138.83   | 308.63               |
| 22 13 16 00-0143  | EA  |     | 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,119.75<br>226.23<br>23.67<br>142.01   | 315.72               |
| 22 13 16 00-0144  | EA  |     | 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 1,412.82<br>314.23<br>25.75<br>154.51   | 343.53               |
| <b>22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)</b> |     |     |   |   |                      |
| 22 13 16 00-0146  | EA  |     | 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 229.45<br>23.59<br>8.10<br>48.62        | 108.13               |
| 22 13 16 00-0147  | EA  |     | 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 308.68<br>32.13<br>10.84<br>65.07       | 144.64               |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend .....                            | 400.27                    | 180.88                  |
| For Extra Heavy Fittings, Add   | 45.21                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 13.56                     |                         |
| For Work In Restricted Working Space, Add   | 81.33                     |                         |
| 22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend .....                            | 811.72                    | 274.31                  |
| For Extra Heavy Fittings, Add   | 140.15                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 20.56                     |                         |
| For Work In Restricted Working Space, Add   | 123.39                    |                         |
| <b>22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends</b><br>(22 13 16 00-0030) |                           |                         |
| 22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....              | 300.94                    | 129.70                  |
| For Extra Heavy Fittings, Add   | 37.29                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 9.72                      |                         |
| For Work In Restricted Working Space, Add   | 58.32                     |                         |
| 22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....              | 354.52                    | 146.90                  |
| For Extra Heavy Fittings, Add   | 46.98                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 11.01                     |                         |
| For Work In Restricted Working Space, Add   | 66.08                     |                         |
| 22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....              | 397.45                    | 163.54                  |
| For Extra Heavy Fittings, Add   | 53.32                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 12.26                     |                         |
| For Work In Restricted Working Space, Add   | 73.53                     |                         |
| 22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....              | 734.29                    | 204.61                  |
| For Extra Heavy Fittings, Add   | 149.62                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 15.34                     |                         |
| For Work In Restricted Working Space, Add   | 92.04                     |                         |
| <b>22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees</b><br>(22 13 16 00-0030)                                 |                           |                         |
| 22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee .....   | 188.21                    | 90.51                   |
| For Extra Heavy Fittings, Add   | 18.39                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 6.78                      |                         |
| For Work In Restricted Working Space, Add   | 40.70                     |                         |
| 22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee .....   | 212.54                    | 98.97                   |
| For Extra Heavy Fittings, Add   | 22.45                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 7.42                      |                         |
| For Work In Restricted Working Space, Add   | 44.52                     |                         |
| 22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee .....   | 327.84                    | 121.24                  |
| For Extra Heavy Fittings, Add   | 51.09                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 9.09                      |                         |
| For Work In Restricted Working Space, Add   | 54.56                     |                         |
| 22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee .....   | 446.88                    | 124.66                  |
| For Extra Heavy Fittings, Add   | 90.96                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 9.35                      |                         |
| For Work In Restricted Working Space, Add   | 56.10                     |                         |
| 22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee .....   | 536.06                    | 149.53                  |
| For Extra Heavy Fittings, Add   | 109.15                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 11.21                     |                         |
| For Work In Restricted Working Space, Add   | 67.26                     |                         |
| 22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee .....   | 1,117.44                  | 197.65                  |
| For Extra Heavy Fittings, Add   | 287.39                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 14.82                     |                         |
| For Work In Restricted Working Space, Add   | 88.90                     |                         |
| 22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee .....  | 1,661.91                  | 241.04                  |
| For Extra Heavy Fittings, Add   | 455.17                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 18.07                     |                         |
| For Work In Restricted Working Space, Add   | 108.43                    |                         |
| 22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee .....  | 2,456.06                  | 283.15                  |
| For Extra Heavy Fittings, Add   | 711.01                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 21.23                     |                         |
| For Work In Restricted Working Space, Add   | 127.38                    |                         |
| <b>22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees</b><br>(22 13 16 00-0030)                        |                           |                         |
| 22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....                                     | 242.30                    | 94.45                   |
| For Extra Heavy Fittings, Add   | 35.22                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 7.08                      |                         |
| For Work In Restricted Working Space, Add   | 42.50                     |                         |
| 22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....                                     | 286.40                    | 110.67                  |
| For Extra Heavy Fittings, Add   | 42.19                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 8.29                      |                         |
| For Work In Restricted Working Space, Add   | 49.76                     |                         |
| 22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....                                     | 298.01                    | 110.67                  |
| For Extra Heavy Fittings, Add   | 46.25                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 8.29                      |                         |
| For Work In Restricted Working Space, Add   | 49.76                     |                         |
| 22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....                                     | 431.28                    | 143.15                  |
| For Extra Heavy Fittings, Add   | 75.86                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add   | 10.73                     |                         |
| For Work In Restricted Working Space, Add   | 64.36                     |                         |



|  |                                   |              |
|--|-----------------------------------|--------------|
|  | <b>Plumbing</b>                   | <b>22</b>    |
|  | <b>Plumbing Piping</b>            | <b>22 10</b> |
|  | <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |

| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST               | DEMOLITION UNIT COST |
|--|-----|-----|---|--------------------------------------|----------------------|
| 22 13 16 00-0169   | EA  |     | 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 448.07<br>80.31<br>10.93<br>65.58    | 145.77               |
| 22 13 16 00-0170   | EA  |     | 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 485.31<br>88.25<br>11.66<br>69.95    | 155.52               |
| 22 13 16 00-0171   | EA  |     | 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 805.88<br>184.62<br>13.92<br>83.52   | 185.67               |
| 22 13 16 00-0172   | EA  |     | 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,003.63<br>242.88<br>15.49<br>92.91 | 206.53               |
| <b>22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)</b>               |     |     |   |                                      |                      |
| 22 13 16 00-0174   | EA  |     | 2" Bell And Spigot Cast Iron Vent Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 166.25<br>10.74<br>6.78<br>40.67     | 90.37                |
| 22 13 16 00-0175   | EA  |     | 3" Bell And Spigot Cast Iron Vent Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 201.81<br>18.69<br>7.42<br>44.52     | 98.97                |
| 22 13 16 00-0176   | EA  |     | 4" Bell And Spigot Cast Iron Vent Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 266.78<br>25.33<br>9.72<br>58.32     | 129.70               |
| 22 13 16 00-0177   | EA  |     | 5" Bell And Spigot Cast Iron Vent Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 319.92<br>37.80<br>10.60<br>63.58    | 141.40               |
| 22 13 16 00-0178   | EA  |     | 6" Bell And Spigot Cast Iron Vent Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 402.02<br>48.69<br>13.15<br>78.87    | 175.38               |
| 22 13 16 00-0179   | EA  |     | 8" Bell And Spigot Cast Iron Vent Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 672.91<br>113.31<br>17.46<br>104.75  | 232.92               |
| <b>22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)</b>    |     |     |   |                                      |                      |
| 22 13 16 00-0181   | EA  |     | 2" Bell And Spigot Cast Iron Tapped Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 169.84<br>12.00<br>6.78<br>40.67     | 90.37                |
| 22 13 16 00-0182   | EA  |     | 3" Bell And Spigot Cast Iron Tapped Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 187.16<br>13.57<br>7.42<br>44.52     | 98.97                |
| 22 13 16 00-0183   | EA  |     | 4" Bell And Spigot Cast Iron Tapped Sanitary Tee .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 242.17<br>16.72<br>9.72<br>58.32     | 129.70               |
| <b>22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)</b> |     |     |   |                                      |                      |
| 22 13 16 00-0185   | EA  |     | 2" Bell And Spigot Cast Iron Tapped Sanitary Cross .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 172.11<br>12.79<br>6.78<br>40.67     | 90.37                |
| 22 13 16 00-0186   | EA  |     | 3" Bell And Spigot Cast Iron Tapped Sanitary Cross .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 191.47<br>15.07<br>7.42<br>44.52     | 98.97                |
| 22 13 16 00-0187   | EA  |     | 4" Bell And Spigot Cast Iron Tapped Sanitary Cross .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 253.01<br>20.51<br>9.72<br>58.32     | 129.70               |
| <b>22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)</b>                |     |     |   |                                      |                      |
| 22 13 16 00-0189   | EA  |     | 3" x 2" Bell And Spigot Cast Iron Reducer .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 95.61<br>6.79<br>3.81<br>22.86       | 50.89                |
| 22 13 16 00-0190   | EA  |     | 4" x 2" Bell And Spigot Cast Iron Reducer .....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 120.99<br>7.10<br>5.04<br>30.21      | 67.10                |

|              |                                   |
|--------------|-----------------------------------|
| <b>22</b>    | <b>Plumbing</b>                   |
| <b>22 10</b> | <b>Plumbing Piping</b>            |
| <b>22 13</b> | <b>Facility Sanitary Sewerage</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer .....          | 127.80                    | 67.68                   |
| For Extra Heavy Fittings, Add  | 9.23                      |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 5.07                      |                         |
| For Work In Restricted Working Space, Add                                    | 30.43                     |                         |
| 22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer .....          | 151.88                    | 75.70                   |
| For Extra Heavy Fittings, Add  | 13.41                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 5.68                      |                         |
| For Work In Restricted Working Space, Add                                    | 34.07                     |                         |
| 22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer .....          | 158.13                    | 76.70                   |
| For Extra Heavy Fittings, Add  | 15.07                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 5.75                      |                         |
| For Work In Restricted Working Space, Add                                    | 34.52                     |                         |
| 22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer .....          | 162.93                    | 78.32                   |
| For Extra Heavy Fittings, Add  | 15.95                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 5.87                      |                         |
| For Work In Restricted Working Space, Add                                    | 35.21                     |                         |
| 22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer .....          | 205.11                    | 80.69                   |
| For Extra Heavy Fittings, Add  | 29.44                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 6.05                      |                         |
| For Work In Restricted Working Space, Add                                    | 36.30                     |                         |
| 22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer .....          | 235.37                    | 100.30                  |
| For Extra Heavy Fittings, Add  | 29.75                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 7.52                      |                         |
| For Work In Restricted Working Space, Add                                    | 45.11                     |                         |
| 22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer .....          | 241.54                    | 102.88                  |
| For Extra Heavy Fittings, Add  | 30.54                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 7.71                      |                         |
| For Work In Restricted Working Space, Add                                    | 46.29                     |                         |
| 22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer .....          | 249.81                    | 107.38                  |
| For Extra Heavy Fittings, Add  | 31.10                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 8.05                      |                         |
| For Work In Restricted Working Space, Add                                    | 48.29                     |                         |
| 22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer .....         | 307.89                    | 120.52                  |
| For Extra Heavy Fittings, Add  | 44.51                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 9.04                      |                         |
| For Work In Restricted Working Space, Add                                    | 54.22                     |                         |
| 22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer .....         | 324.48                    | 126.57                  |
| For Extra Heavy Fittings, Add  | 47.12                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 9.49                      |                         |
| For Work In Restricted Working Space, Add                                    | 56.95                     |                         |
| 22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer .....         | 344.89                    | 132.11                  |
| For Extra Heavy Fittings, Add  | 51.38                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 9.90                      |                         |
| For Work In Restricted Working Space, Add                                    | 59.43                     |                         |
| 22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer .....         | 422.22                    | 143.18                  |
| For Extra Heavy Fittings, Add  | 72.67                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 10.73                     |                         |
| For Work In Restricted Working Space, Add                                    | 64.38                     |                         |
| 22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer .....         | 473.29                    | 167.52                  |
| For Extra Heavy Fittings, Add  | 77.72                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 12.56                     |                         |
| For Work In Restricted Working Space, Add                                    | 75.37                     |                         |
| 22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer .....         | 514.78                    | 190.82                  |
| For Extra Heavy Fittings, Add  | 80.02                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 14.31                     |                         |
| For Work In Restricted Working Space, Add                                    | 85.84                     |                         |
| 22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer .....        | 567.17                    | 219.80                  |
| For Extra Heavy Fittings, Add  | 83.18                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 16.48                     |                         |
| For Work In Restricted Working Space, Add                                    | 98.86                     |                         |
| 22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer .....         | 720.94                    | 219.80                  |
| For Extra Heavy Fittings, Add  | 137.00                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 16.48                     |                         |
| For Work In Restricted Working Space, Add                                    | 98.86                     |                         |
| 22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer .....         | 768.01                    | 236.92                  |
| For Extra Heavy Fittings, Add  | 144.49                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 17.76                     |                         |
| For Work In Restricted Working Space, Add                                    | 106.56                    |                         |
| 22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer .....        | 800.66                    | 249.80                  |
| For Extra Heavy Fittings, Add  | 149.13                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 18.73                     |                         |
| For Work In Restricted Working Space, Add                                    | 112.37                    |                         |
| 22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer .....        | 844.70                    | 266.66                  |
| For Extra Heavy Fittings, Add  | 155.69                    |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 19.99                     |                         |
| For Work In Restricted Working Space, Add                                    | 119.96                    |                         |
| <b>22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps</b> (22 13 16 00-0030) |                           |                         |
| 22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap .....                | 93.82                     | 40.46                   |
| For Extra Heavy Fittings, Add  | 11.61                     |                         |
| For Above Ground Cast Iron Pipe Installation, Add                            | 3.03                      |                         |
| For Work In Restricted Working Space, Add                                    | 18.19                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST         | DEMOLITION<br>UNIT COST |
|--|-----------------------------------|-------------------------|
| 22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 124.47<br>16.89<br>3.81<br>22.86  | 50.89                   |
| 22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 169.04<br>23.67<br>5.07<br>30.43  | 67.68                   |
| 22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 250.00<br>50.74<br>5.25<br>31.51  | 70.07                   |
| 22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 332.36<br>73.08<br>6.18<br>37.07  | 82.45                   |
| 22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 718.30<br>195.07<br>8.05<br>48.29 | 107.38                  |
| 22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 800.23<br>210.75<br>9.90<br>59.43 | 132.11                  |
| <b>22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)</b>   |                                   |                         |
| 22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 106.42<br>16.02<br>3.03<br>18.19  | 40.46                   |
| 22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 149.24<br>25.56<br>3.81<br>22.86  | 50.89                   |
| 22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 215.10<br>39.79<br>5.07<br>30.43  | 67.68                   |
| 22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 335.17<br>76.23<br>5.87<br>35.21  | 78.32                   |
| 22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap.....<br><i>For Extra Heavy Fittings, Add</i><br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 356.90<br>79.08<br>6.55<br>39.29  | 87.32                   |
| <b>22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)</b>  |                                   |                         |
| 22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 247.50<br>7.42<br>44.52           | 97.70                   |
| 22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 329.29<br>9.72<br>58.32           | 128.43                  |
| 22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 420.43<br>10.28<br>61.70          | 136.04                  |
| 22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 811.32<br>11.66<br>69.95          | 154.15                  |
| 22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 2,573.66<br>13.92<br>83.52        | 183.61                  |
| 22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 2,788.24<br>15.49<br>92.91        | 204.86                  |
| <b>22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)</b>   |                                   |                         |
| 22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 320.10<br>10.22<br>61.30          | 134.92                  |
| 22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 432.25<br>12.93<br>77.57          | 170.30                  |
| 22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 909.82<br>14.45<br>86.69          | 190.49                  |
| 22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                       | 1,057.89<br>17.47<br>104.83       | 230.59                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|---|------------------------------|-------------------------|
| 22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 2,779.35<br>16.89<br>101.32  | 222.63                  |
| 22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 3,055.53<br>19.99<br>119.96  | 264.34                  |
| 22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 4,050.61<br>23.14<br>138.83  | 305.03                  |
| 22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 5,585.87<br>26.71<br>160.28  | 352.67                  |
| 22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 10,792.35<br>30.92<br>185.49 | 407.91                  |
| <b>22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings</b> (22 13 16 00-0030)  |                              |                         |
| 22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 178.91<br>3.02<br>18.15      |                         |
| 22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 243.16<br>3.40<br>20.39      |                         |
| 22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 283.71<br>4.55<br>27.31      |                         |
| 22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 348.80<br>5.29<br>31.72      |                         |
| 22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 423.43<br>6.39<br>38.32      |                         |
| 22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 783.30<br>8.07<br>48.43      |                         |
| <b>22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe</b> (22 13 16 00-0019)   |                              |                         |
| Note: For use when connecting pipe to an existing in-place system.  |                              |                         |
| 22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 16.85<br>0.84<br>5.06        |                         |
| 22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 18.38<br>0.92<br>5.51        |                         |
| 22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 22.97<br>1.15<br>6.89        |                         |
| 22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 27.56<br>1.38<br>8.27        |                         |
| 22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 36.75<br>1.84<br>11.03       |                         |
| 22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 42.87<br>2.14<br>12.86       |                         |
| 22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 50.53<br>2.53<br>15.16       |                         |
| 22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe .....<br><i>For Above Ground Cast Iron Pipe Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 58.19<br>2.91<br>17.46       |                         |
| <b>22 13 16 00-0257 Joint Material</b> (22 13 16 00-0019)   |                              |                         |
| Note: Labor costs are included in the installation costs for fittings.  |                              |                         |
| 22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....   | 7.19                         |                         |
| 22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....  | 15.45                        |                         |
| 22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....   | 3.17                         |                         |
| 22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....   | 4.34                         |                         |
| 22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....   | 5.40                         |                         |
| 22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....   | 8.95                         |                         |
| 22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....   | 19.74                        |                         |
| 22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....  | 30.27                        |                         |
| 22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....  | 38.57                        |                         |
| 22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....  | 45.81                        |                         |
| <b>22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings</b> (22 13 16)  |                              |                         |
| Note: Service Weight. Excludes hangers.   |                              |                         |
| <b>22 13 16 00-0269 No Hub Cast Iron Pipe</b> (22 13 16 00-0268)  |                              |                         |
| Note: Excludes couplings.   |                              |                         |



|  |                                   |              |
|--|-----------------------------------|--------------|
|  | <b>Plumbing</b>                   | <b>22</b>    |
|  | <b>Plumbing Piping</b>            | <b>22 10</b> |
|  | <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                 | 21.46<br>0.64<br>3.81     | 8.46                    |
| 22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 22.82<br>0.68<br>4.09     | 9.02                    |
| 22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 32.45<br>0.99<br>5.92     | 13.11                   |
| 22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 42.11<br>1.28<br>7.69     | 17.05                   |
| 22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 51.62<br>1.43<br>8.60     | 19.11                   |
| 22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 59.62<br>1.56<br>9.37     | 20.86                   |
| 22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                     | 90.75<br>2.26<br>13.58    | 30.26                   |
| 22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 126.89<br>2.58<br>15.45   | 34.38                   |
| <b>22 13 16 00-0278 No Hub Cast Iron Fittings</b> (22 13 16 00-0268)  |                           |                         |
| <b>22 13 16 00-0279 No Hub Cast Iron Long Sweeps</b> (22 13 16 00-0278)   |                           |                         |
| 22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 76.43<br>2.88<br>17.26    | 38.34                   |
| 22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 79.35<br>3.00<br>18.00    | 40.04                   |
| 22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 93.03<br>3.44<br>20.63    | 45.81                   |
| 22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 127.11<br>4.55<br>27.29   | 60.63                   |
| 22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 161.11<br>4.73<br>28.36   | 63.08                   |
| 22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 191.30<br>5.64<br>33.85   | 75.20                   |
| 22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 361.71<br>7.36<br>44.15   | 98.11                   |
| <b>22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps</b> (22 13 16 00-0278)  |                           |                         |
| 22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 113.02<br>3.44<br>20.63   | 45.81                   |
| 22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 165.20<br>4.55<br>27.29   | 60.63                   |
| <b>22 13 16 00-0290 No Hub Cast Iron Short Sweeps</b> (22 13 16 00-0278)  |                           |                         |
| 22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 75.33<br>3.00<br>18.00    | 40.04                   |
| 22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 89.85<br>3.44<br>20.63    | 45.81                   |
| 22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 125.44<br>4.55<br>27.29   | 60.63                   |
| 22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 161.73<br>4.73<br>28.36   | 63.08                   |
| 22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 181.55<br>5.64<br>33.85   | 75.20                   |
| 22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 332.23<br>7.36<br>44.15   | 98.11                   |
| 22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 531.54<br>10.30<br>61.80  | 137.39                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 13 16 00-0298 No Hub Cast Iron 1/4 Bends</b> (22 13 16 00-0278)     |                           |                         |
| 22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend .....                | 69.44                     | 38.34                   |
| For Below Ground Installation, Add  | 2.88                      |                         |
| For Work In Restricted Working Space, Add                                 | 17.26                     |                         |
| 22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend .....                    | 72.56                     | 40.04                   |
| For Below Ground Installation, Add  | 3.00                      |                         |
| For Work In Restricted Working Space, Add                                 | 18.00                     |                         |
| 22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend .....                    | 85.36                     | 45.81                   |
| For Below Ground Installation, Add  | 3.44                      |                         |
| For Work In Restricted Working Space, Add                                 | 20.63                     |                         |
| 22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend .....                    | 115.53                    | 60.63                   |
| For Below Ground Installation, Add  | 4.55                      |                         |
| For Work In Restricted Working Space, Add                                 | 27.29                     |                         |
| 22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend .....                    | 149.42                    | 63.08                   |
| For Below Ground Installation, Add  | 4.73                      |                         |
| For Work In Restricted Working Space, Add                                 | 28.36                     |                         |
| 22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend .....                    | 173.67                    | 75.20                   |
| For Below Ground Installation, Add  | 5.64                      |                         |
| For Work In Restricted Working Space, Add                                 | 33.85                     |                         |
| 22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend .....                    | 309.27                    | 98.11                   |
| For Below Ground Installation, Add  | 7.36                      |                         |
| For Work In Restricted Working Space, Add                                 | 44.15                     |                         |
| <b>22 13 16 00-0306 No Hub Cast Iron 1/8 Bends</b> (22 13 16 00-0278)     |                           |                         |
| 22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend .....                | 66.88                     | 38.34                   |
| For Below Ground Installation, Add  | 2.88                      |                         |
| For Work In Restricted Working Space, Add                                 | 17.26                     |                         |
| 22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend .....                    | 69.54                     | 40.04                   |
| For Below Ground Installation, Add  | 3.00                      |                         |
| For Work In Restricted Working Space, Add                                 | 18.00                     |                         |
| 22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend .....                    | 82.39                     | 45.81                   |
| For Below Ground Installation, Add  | 3.44                      |                         |
| For Work In Restricted Working Space, Add                                 | 20.63                     |                         |
| 22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend .....                    | 108.85                    | 60.63                   |
| For Below Ground Installation, Add  | 4.55                      |                         |
| For Work In Restricted Working Space, Add                                 | 27.29                     |                         |
| 22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend .....                    | 175.11                    | 89.53                   |
| For Below Ground Installation, Add  | 6.71                      |                         |
| For Work In Restricted Working Space, Add                                 | 40.28                     |                         |
| 22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend .....                    | 284.97                    | 117.58                  |
| For Below Ground Installation, Add  | 8.81                      |                         |
| For Work In Restricted Working Space, Add                                 | 52.87                     |                         |
| 22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend .....                   | 422.00                    | 144.64                  |
| For Below Ground Installation, Add  | 10.84                     |                         |
| For Work In Restricted Working Space, Add                                 | 65.07                     |                         |
| <b>22 13 16 00-0314 No Hub Cast Iron Wyes</b> (22 13 16 00-0278)          |                           |                         |
| 22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye .....                     | 106.96                    | 60.34                   |
| For Below Ground Installation, Add  | 4.52                      |                         |
| For Work In Restricted Working Space, Add                                 | 27.11                     |                         |
| 22 13 16 00-0316 EA 2" No Hub Cast Iron Wye .....                         | 139.39                    | 81.77                   |
| For Below Ground Installation, Add  | 6.13                      |                         |
| For Work In Restricted Working Space, Add                                 | 36.78                     |                         |
| 22 13 16 00-0317 EA 3" No Hub Cast Iron Wye .....                         | 157.22                    | 89.53                   |
| For Below Ground Installation, Add  | 6.71                      |                         |
| For Work In Restricted Working Space, Add                                 | 40.28                     |                         |
| 22 13 16 00-0318 EA 4" No Hub Cast Iron Wye .....                         | 213.48                    | 117.58                  |
| For Below Ground Installation, Add  | 8.81                      |                         |
| For Work In Restricted Working Space, Add                                 | 52.87                     |                         |
| 22 13 16 00-0319 EA 5" No Hub Cast Iron Wye .....                         | 264.69                    | 122.79                  |
| For Below Ground Installation, Add  | 9.20                      |                         |
| For Work In Restricted Working Space, Add                                 | 55.22                     |                         |
| 22 13 16 00-0320 EA 6" No Hub Cast Iron Wye .....                         | 314.13                    | 145.77                  |
| For Below Ground Installation, Add  | 10.93                     |                         |
| For Work In Restricted Working Space, Add                                 | 65.58                     |                         |
| 22 13 16 00-0321 EA 8" No Hub Cast Iron Wye .....                         | 518.77                    | 196.36                  |
| For Below Ground Installation, Add  | 14.72                     |                         |
| For Work In Restricted Working Space, Add                                 | 88.29                     |                         |
| 22 13 16 00-0322 EA 10" No Hub Cast Iron Wye .....                        | 813.03                    | 218.12                  |
| For Below Ground Installation, Add  | 16.35                     |                         |
| For Work In Restricted Working Space, Add                                 | 98.10                     |                         |
| <b>22 13 16 00-0323 No Hub Cast Iron Reducing Wyes</b> (22 13 16 00-0278) |                           |                         |
| 22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye .....       | 135.11                    | 78.10                   |
| For Below Ground Installation, Add  | 5.85                      |                         |
| For Work In Restricted Working Space, Add                                 | 35.10                     |                         |
| 22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye .....           | 152.37                    | 89.53                   |
| For Below Ground Installation, Add  | 6.71                      |                         |
| For Work In Restricted Working Space, Add                                 | 40.28                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 171.57<br>7.42<br>44.52   | 98.97                   |
| 22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 195.93<br>8.24<br>49.47   | 109.97                  |
| 22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 237.54<br>9.30<br>55.81   | 124.04                  |
| 22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 252.38<br>9.72<br>58.29   | 129.66                  |
| 22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 290.72<br>11.36<br>68.14  | 151.52                  |
| 22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 359.98<br>11.57<br>69.44  | 154.38                  |
| 22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                             | 413.06<br>12.72<br>76.30  | 169.70                  |
| 22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                            | 607.20<br>13.55<br>81.32  | 180.78                  |
| 22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                            | 641.83<br>14.51<br>87.05  | 193.52                  |
| 22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                            | 732.11<br>15.49<br>92.94  | 206.66                  |
| <b>22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)</b>  |                           |                         |
| 22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>               | 122.01<br>5.26<br>31.56   | 70.21                   |
| 22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 140.07<br>6.13<br>36.78   | 81.77                   |
| 22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 162.33<br>6.71<br>40.28   | 89.53                   |
| 22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 227.94<br>8.81<br>52.87   | 117.58                  |
| 22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 401.29<br>13.56<br>81.33  | 180.88                  |
| 22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 674.55<br>17.40<br>104.38 | 232.06                  |
| 22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 795.63<br>21.03<br>126.18 | 280.56                  |
| <b>22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)</b>   |                           |                         |
| 22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 140.90<br>6.13<br>36.78   | 81.77                   |
| 22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 154.92<br>6.71<br>40.28   | 89.53                   |
| 22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 176.68<br>7.42<br>44.52   | 98.97                   |
| 22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 200.89<br>8.24<br>49.47   | 109.97                  |
| 22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 252.41<br>9.30<br>55.81   | 124.04                  |
| 22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 278.37<br>9.72<br>58.29   | 129.66                  |
| 22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 313.47<br>11.36<br>68.14  | 151.52                  |
| 22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 402.50<br>11.57<br>69.44  | 154.38                  |
| 22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 510.27<br>12.72<br>76.30  | 169.70                  |





| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 22 13 16 00-0354 |     |     | <b>No Hub Cast Iron Double Wyes</b> (22 13 16 00-0278)                                   |                        |                      |
| 22 13 16 00-0355 | EA  |     | 2" No Hub Cast Iron Double Wye .....   | 175.84                 | 101.64               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 7.62                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 45.72                  |                      |
| 22 13 16 00-0356 | EA  |     | 3" No Hub Cast Iron Double Wye .....   | 228.70                 | 123.78               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 9.28                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 55.65                  |                      |
| 22 13 16 00-0357 | EA  |     | 4" No Hub Cast Iron Double Wye .....   | 291.76                 | 135.34               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 10.14                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 60.86                  |                      |
| 22 13 16 00-0358 | EA  |     | 6" No Hub Cast Iron Double Wye .....   | 428.60                 | 183.75               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 13.77                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 82.62                  |                      |
| 22 13 16 00-0359 | EA  |     | 8" No Hub Cast Iron Double Wye .....   | 789.42                 | 249.80               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 18.73                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 112.37                 |                      |
| 22 13 16 00-0360 |     |     | <b>No Hub Cast Iron Reducing Double Wyes</b> (22 13 16 00-0278)                          |                        |                      |
| 22 13 16 00-0361 | EA  |     | 3" x 2" No Hub Cast Iron Double Wye .....  | 205.89                 | 112.64               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 8.44                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 50.65                  |                      |
| 22 13 16 00-0362 | EA  |     | 4" x 2" No Hub Cast Iron Double Wye .....  | 244.24                 | 129.70               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 9.72                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 58.34                  |                      |
| 22 13 16 00-0363 | EA  |     | 4" x 3" No Hub Cast Iron Double Wye .....  | 268.15                 | 141.40               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 10.60                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 63.60                  |                      |
| 22 13 16 00-0364 | EA  |     | 6" x 4" No Hub Cast Iron Double Wye .....  | 367.12                 | 162.01               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 12.14                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 72.87                  |                      |
| 22 13 16 00-0365 |     |     | <b>No Hub Cast Iron Double Combination Wye And 1/8 Bends</b> (22 13 16 00-0278)          |                        |                      |
| 22 13 16 00-0366 | EA  |     | 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....                             | 224.16                 | 122.09               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 9.16                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 54.93                  |                      |
| 22 13 16 00-0367 | EA  |     | 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....                             | 266.45                 | 135.34               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 10.14                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 60.86                  |                      |
| 22 13 16 00-0368 | EA  |     | 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....                             | 390.01                 | 179.18               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 13.43                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 80.56                  |                      |
| 22 13 16 00-0369 | EA  |     | 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....                             | 556.47                 | 276.60               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 20.73                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 124.40                 |                      |
| 22 13 16 00-0370 |     |     | <b>No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends</b> (22 13 16 00-0278) |                        |                      |
| 22 13 16 00-0371 | EA  |     | 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....               | 205.16                 | 105.03               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 7.88                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 47.26                  |                      |
| 22 13 16 00-0372 | EA  |     | 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....               | 237.99                 | 122.09               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 9.16                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 54.93                  |                      |
| 22 13 16 00-0373 | EA  |     | 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....               | 279.75                 | 133.37               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 10.00                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 59.99                  |                      |
| 22 13 16 00-0374 |     |     | <b>No Hub Cast Iron Sanitary Tees</b> (22 13 16 00-0278)                                 |                        |                      |
| 22 13 16 00-0375 | EA  |     | 1-1/2" No Hub Cast Iron Sanitary Tee .....   | 104.43                 | 59.07                |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 4.43                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 26.60                  |                      |
| 22 13 16 00-0376 | EA  |     | 2" No Hub Cast Iron Sanitary Tee.....  | 140.23                 | 81.77                |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 6.13                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.78                  |                      |
| 22 13 16 00-0377 | EA  |     | 3" No Hub Cast Iron Sanitary Tee.....  | 155.34                 | 89.53                |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 6.71                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 13 16 00-0378 | EA  |     | 4" No Hub Cast Iron Sanitary Tee.....  | 209.21                 | 117.58               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 8.81                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 13 16 00-0379 | EA  |     | 5" No Hub Cast Iron Sanitary Tee.....  | 265.58                 | 122.79               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 9.20                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 55.22                  |                      |
| 22 13 16 00-0380 | EA  |     | 6" No Hub Cast Iron Sanitary Tee.....  | 313.51                 | 145.77               |
|                  |     |     | <i>For Below Ground Installation, Add</i>  | 10.93                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 65.58                  |                      |



|                                   |              |           |
|-----------------------------------|--------------|-----------|
| <b>Plumbing</b>                   | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>            | <b>22 10</b> |           |
| <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 571.52<br>14.72<br>88.29  | 196.36                  |
| <b>22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees</b> (22 13 16 00-0278)   |                           |                         |
| 22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 117.62<br>5.00<br>29.99   | 66.68                   |
| 22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>        | 136.57<br>5.85<br>35.10   | 78.10                   |
| 22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 142.16<br>6.13<br>36.78   | 81.77                   |
| 22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 162.35<br>6.13<br>36.78   | 81.77                   |
| 22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 190.96<br>8.29<br>49.76   | 110.67                  |
| 22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 195.86<br>8.29<br>49.76   | 110.67                  |
| 22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 233.16<br>8.74<br>52.46   | 116.67                  |
| 22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 240.00<br>8.74<br>52.46   | 116.67                  |
| 22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 240.83<br>8.74<br>52.46   | 116.67                  |
| 22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 250.05<br>9.11<br>54.65   | 121.54                  |
| 22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 454.78<br>12.41<br>74.46  | 165.59                  |
| <b>22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees</b> (22 13 16 00-0278)   |                           |                         |
| 22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 77.68<br>3.00<br>18.00    | 40.04                   |
| 22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 90.01<br>3.44<br>20.63    | 45.81                   |
| 22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 112.66<br>4.55<br>27.29   | 60.63                   |
| <b>22 13 16 00-0398 No Hub Cast Iron Cleanout Tees</b> (22 13 16 00-0278)  |                           |                         |
| 22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 74.60<br>3.00<br>18.00    | 40.04                   |
| 22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 92.25<br>3.44<br>20.63    | 45.81                   |
| 22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 132.22<br>4.55<br>27.29   | 60.63                   |
| 22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 214.77<br>6.71<br>40.28   | 89.53                   |
| <b>22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees</b> (22 13 16 00-0278)  |                           |                         |
| 22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 294.08<br>8.81<br>52.87   | 117.58                  |
| 22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 377.30<br>13.39<br>80.36  | 178.62                  |
| <b>22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs</b> (22 13 16 00-0278)   |                           |                         |
| 22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                         | 66.20<br>3.00<br>18.00    | 40.04                   |
| 22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                         | 78.53<br>3.44<br>20.63    | 45.81                   |

**22 Plumbing****22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug .....                           | 109.47                    | 60.63                   |
| <i>For Below Ground Installation, Add</i>   | 4.55                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 27.29                     |                         |
| 22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug .....                           | 168.85                    | 89.53                   |
| <i>For Below Ground Installation, Add</i>   | 6.71                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 40.28                     |                         |
| 22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug .....                           | 223.76                    | 117.58                  |
| <i>For Below Ground Installation, Add</i>   | 8.81                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 52.87                     |                         |
| <b>22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)</b>          |                           |                         |
| 22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross .....                      | 139.76                    | 78.95                   |
| <i>For Below Ground Installation, Add</i>   | 5.92                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 35.54                     |                         |
| 22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross .....                          | 149.20                    | 81.77                   |
| <i>For Below Ground Installation, Add</i>   | 6.13                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 36.78                     |                         |
| 22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross .....                          | 176.16                    | 89.53                   |
| <i>For Below Ground Installation, Add</i>   | 6.71                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 40.28                     |                         |
| 22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross .....                          | 254.96                    | 117.58                  |
| <i>For Below Ground Installation, Add</i>   | 8.81                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 52.87                     |                         |
| <b>22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)</b> |                           |                         |
| 22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross .....                     | 195.15                    | 105.03                  |
| <i>For Below Ground Installation, Add</i>   | 7.87                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 47.24                     |                         |
| 22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross .....                     | 215.34                    | 108.13                  |
| <i>For Below Ground Installation, Add</i>   | 8.11                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 48.64                     |                         |
| 22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross .....                     | 233.44                    | 112.93                  |
| <i>For Below Ground Installation, Add</i>   | 8.46                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 50.76                     |                         |
| <b>22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)</b>                  |                           |                         |
| 22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer .....                            | 131.51                    | 81.77                   |
| <i>For Below Ground Installation, Add</i>   | 6.13                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 36.78                     |                         |
| 22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer .....                            | 179.48                    | 110.67                  |
| <i>For Below Ground Installation, Add</i>   | 8.29                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 49.76                     |                         |
| 22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer .....                            | 179.90                    | 110.67                  |
| <i>For Below Ground Installation, Add</i>   | 8.29                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 49.76                     |                         |
| 22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer .....                            | 194.86                    | 116.67                  |
| <i>For Below Ground Installation, Add</i>   | 8.74                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 52.46                     |                         |
| 22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer .....                            | 197.63                    | 116.67                  |
| <i>For Below Ground Installation, Add</i>   | 8.74                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 52.46                     |                         |
| 22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer .....                            | 198.72                    | 116.67                  |
| <i>For Below Ground Installation, Add</i>   | 8.74                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 52.46                     |                         |
| 22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer .....                            | 228.80                    | 129.66                  |
| <i>For Below Ground Installation, Add</i>   | 9.72                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 58.29                     |                         |
| 22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer .....                            | 229.22                    | 129.66                  |
| <i>For Below Ground Installation, Add</i>   | 9.72                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 58.29                     |                         |
| 22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer .....                            | 230.47                    | 129.66                  |
| <i>For Below Ground Installation, Add</i>   | 9.72                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 58.29                     |                         |
| 22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer .....                            | 320.66                    | 183.22                  |
| <i>For Below Ground Installation, Add</i>   | 13.73                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 82.41                     |                         |
| 22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer .....                            | 323.84                    | 183.22                  |
| <i>For Below Ground Installation, Add</i>   | 13.73                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 82.41                     |                         |
| 22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer .....                            | 328.95                    | 183.22                  |
| <i>For Below Ground Installation, Add</i>   | 13.73                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 82.41                     |                         |
| 22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer .....                            | 334.28                    | 183.22                  |
| <i>For Below Ground Installation, Add</i>   | 13.73                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 82.41                     |                         |
| 22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer .....                            | 334.90                    | 183.22                  |
| <i>For Below Ground Installation, Add</i>   | 13.73                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 82.41                     |                         |
| 22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer .....                           | 388.43                    | 193.27                  |
| <i>For Below Ground Installation, Add</i>   | 14.49                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                                      | 86.91                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                 | 413.19<br>15.13<br>90.77  | 201.77                  |
| 22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                 | 460.88<br>16.42<br>98.51  | 219.02                  |
| <b>22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)</b>  |                           |                         |
| 22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                | 33.88<br>1.44<br>8.63     | 19.19                   |
| 22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 34.90<br>1.50<br>9.00     | 20.02                   |
| 22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 43.09<br>1.72<br>10.31    | 22.98                   |
| 22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 57.13<br>2.27<br>13.63    | 30.31                   |
| 22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 69.80<br>2.40<br>14.43    | 32.11                   |
| 22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 78.37<br>2.82<br>16.94    | 37.60                   |
| 22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                    | 142.65<br>3.68<br>22.06   | 49.05                   |
| 22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 178.58<br>3.96<br>23.75   | 52.79                   |
| <b>22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)</b>  |                           |                         |
| 22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 78.10<br>3.00<br>18.00    | 40.04                   |
| 22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 110.04<br>3.44<br>20.63   | 45.81                   |
| 22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 162.64<br>4.55<br>27.29   | 60.63                   |
| 22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 259.31<br>4.76<br>28.58   | 63.58                   |
| 22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 277.88<br>5.68<br>34.10   | 75.82                   |
| <b>22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)</b>  |                           |                         |
| 22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 119.40<br>3.81<br>22.86   | 50.89                   |
| 22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 170.34<br>5.07<br>30.43   | 67.68                   |
| 22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 244.54<br>6.70<br>40.18   | 89.39                   |
| <b>22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)</b>   |                           |                         |
| 22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>                 | 119.65<br>4.55<br>27.29   | 60.63                   |
| 22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 125.60<br>4.55<br>27.29   | 60.63                   |
| <b>22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)</b>   |                           |                         |
| 22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend .....<br><i>For Below Ground Installation, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 203.29<br>4.55<br>27.29   | 60.63                   |
| 22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter.....  | 91.75                     | 50.89                   |
| For Below Ground Installation, Add   | 3.81                      |                         |
| For Work In Restricted Working Space, Add  | 22.86                     |                         |
| 22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter.....  | 96.55                     | 50.89                   |
| For Below Ground Installation, Add   | 3.81                      |                         |
| For Work In Restricted Working Space, Add  | 22.86                     |                         |
| <b>22 13 16 00-0466 No Hub Couplings</b> <small>(22 13 16 00-0278)</small>   |                           |                         |
| Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings. |                           |                         |
| 22 13 16 00-0467 EA 1-1/2" No Hub Coupling.....  | 8.54                      |                         |
| For Medium Duty (Fernco MD-2000), Add  | 1.11                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 2.31                      |                         |
| 22 13 16 00-0468 EA 2" No Hub Coupling.....  | 8.54                      |                         |
| For Medium Duty (Fernco MD-2000), Add  | 1.11                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 2.31                      |                         |
| 22 13 16 00-0469 EA 3" No Hub Coupling.....  | 10.14                     |                         |
| For Medium Duty (Fernco MD-2000), Add  | 1.32                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 2.74                      |                         |
| 22 13 16 00-0470 EA 4" No Hub Coupling.....  | 12.04                     |                         |
| For Medium Duty (Fernco MD-2000), Add  | 1.57                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 3.25                      |                         |
| 22 13 16 00-0471 EA 5" No Hub Coupling.....  | 27.83                     |                         |
| For Medium Duty (Fernco MD-2000), Add  | 3.62                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 7.51                      |                         |
| 22 13 16 00-0472 EA 6" No Hub Coupling.....  | 30.59                     |                         |
| For Medium Duty (Fernco MD-2000), Add  | 3.98                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 8.26                      |                         |
| 22 13 16 00-0473 EA 8" No Hub Coupling.....  | 57.62                     |                         |
| For Medium Duty (Fernco MD-2000), Add  | 7.49                      |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 15.56                     |                         |
| 22 13 16 00-0474 EA 10" No Hub Coupling.....   | 79.38                     |                         |
| For Medium Duty (Fernco MD-2000), Add  | 10.32                     |                         |
| For Heavy Duty (Fernco HD-4000), Add   | 21.43                     |                         |
| 22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....  | 10.14                     |                         |
| 22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling.....  | 15.72                     |                         |
| 22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling.....  | 21.94                     |                         |
| 22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling.....  | 18.69                     |                         |
| <b>22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts</b> <small>(22 13 16 00-0278)</small>  |                           |                         |
| Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.    |                           |                         |
| 22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 34.37                     |                         |
| 22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 35.48                     |                         |
| 22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 37.25                     |                         |
| 22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 43.46                     |                         |
| 22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 82.05                     |                         |
| 22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 112.65                    |                         |
| 22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....   | 197.36                    |                         |
| 22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....  | 301.58                    |                         |
| <b>22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place</b> <small>(22 13 16 00-0268)</small>   |                           |                         |
| Note: For use when connecting pipe to an existing in-place system.   |                           |                         |
| 22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub.....   | 13.78                     |                         |
| For Work In Restricted Working Space, Add  | 4.13                      |                         |
| 22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub.....   | 16.85                     |                         |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| 22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub.....   | 18.38                     |                         |
| For Work In Restricted Working Space, Add  | 5.51                      |                         |
| 22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub.....   | 22.97                     |                         |
| For Work In Restricted Working Space, Add  | 6.89                      |                         |
| 22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub.....   | 27.56                     |                         |
| For Work In Restricted Working Space, Add  | 8.27                      |                         |
| 22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub.....   | 36.75                     |                         |
| For Work In Restricted Working Space, Add  | 11.03                     |                         |
| 22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub.....  | 42.88                     |                         |
| For Work In Restricted Working Space, Add  | 12.86                     |                         |
| <b>22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe</b> <small>(22 13 16)</small>   |                           |                         |
| See CSI section 22 11 16 00-0436 for copper and brass fittings.  |                           |                         |
| 22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe.....  | 20.72                     | 6.63                    |
| 22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe.....  | 24.63                     | 7.40                    |
| 22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe.....  | 31.63                     | 9.13                    |
| 22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe.....  | 69.20                     | 12.65                   |
| 22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe.....  | 95.37                     | 14.27                   |
| 22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe.....  | 182.97                    | 16.38                   |
| 22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe.....  | 261.74                    | 25.39                   |



|                                   |              |           |
|-----------------------------------|--------------|-----------|
| <b>Plumbing</b>                   | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>            | <b>22 10</b> |           |
| <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <sup>(22 13 16)</sup><br>Note: Aboveground installation. See CSI section 33 31 11 00-0002 for underground installation.   |                           |                         |
| 22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <sup>(22 13 16 00-0504)</sup>  |                           |                         |
| 22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <sup>(22 13 16 00-0505)</sup><br>Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.                  |                           |                         |
| 22 13 16 00-0507 LF 1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.   | 15.73                     |                         |
| For Work In Restricted Working Space, Add  | 3.30                      |                         |
| 22 13 16 00-0508 LF 2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.  | 19.07                     |                         |
| For Work In Restricted Working Space, Add  | 4.02                      |                         |
| 22 13 16 00-0509 LF 3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.  | 30.88                     |                         |
| For Work In Restricted Working Space, Add  | 5.69                      |                         |
| 22 13 16 00-0510 LF 4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.  | 38.97                     |                         |
| For Work In Restricted Working Space, Add  | 6.26                      |                         |
| 22 13 16 00-0511 LF 6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.  | 66.48                     |                         |
| For Work In Restricted Working Space, Add  | 8.06                      |                         |
| 22 13 16 00-0512 LF 8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.  | 94.95                     |                         |
| For Work In Restricted Working Space, Add  | 10.77                     |                         |
| 22 13 16 00-0513 LF 10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....<br>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.   | 137.20                    |                         |
| For Work In Restricted Working Space, Add  | 14.36                     |                         |
| 22 13 16 00-0514 Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <sup>(22 13 16 00-0505)</sup><br>Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available. |                           |                         |
| 22 13 16 00-0515 LF 1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 31.69                     | 5.92                    |
| For Work In Restricted Working Space, Add  | 6.79                      |                         |
| 22 13 16 00-0516 LF 2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 35.62                     | 7.05                    |
| For Work In Restricted Working Space, Add  | 7.55                      |                         |
| 22 13 16 00-0517 LF 3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 49.99                     | 10.15                   |
| For Work In Restricted Working Space, Add  | 9.38                      |                         |
| 22 13 16 00-0518 LF 4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 61.41                     | 11.00                   |
| For Work In Restricted Working Space, Add  | 10.24                     |                         |
| 22 13 16 00-0519 LF 6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 93.06                     | 14.10                   |
| For Work In Restricted Working Space, Add  | 13.12                     |                         |
| 22 13 16 00-0520 LF 8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  | 121.64                    | 18.75                   |
| For Work In Restricted Working Space, Add  | 15.03                     |                         |
| 22 13 16 00-0521 LF 10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.   | 170.06                    | 25.10                   |
| For Work In Restricted Working Space, Add  | 19.59                     |                         |
| 22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <sup>(22 13 16 00-0504)</sup><br>Note: Excludes fittings or hangers.  |                           |                         |
| 22 13 16 00-0523 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <sup>(22 13 16 00-0522)</sup><br>Note: Excludes fittings or hangers.  |                           |                         |
| 22 13 16 00-0524 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br>For Work In Restricted Working Space, Add   | 12.42<br>2.64             | 5.92                    |
| 22 13 16 00-0525 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br>For Work In Restricted Working Space, Add   | 15.29<br>3.17             | 7.05                    |
| 22 13 16 00-0526 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br>For Work In Restricted Working Space, Add   | 24.64<br>4.55             | 10.15                   |
| 22 13 16 00-0527 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br>For Work In Restricted Working Space, Add   | 29.83<br>4.94             | 11.00                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0528 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                            | 42.56<br>5.61             | 12.49                   |
| 22 13 16 00-0529 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                            | 61.16<br>7.49             | 16.61                   |
| 22 13 16 00-0530 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                           | 88.74<br>9.99             | 22.23                   |
| <b>22 13 16 00-0531 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) (22 13 16 00-0522)</b><br>Note: Excludes fittings or hangers. |                           |                         |
| 22 13 16 00-0532 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>            | 11.34<br>2.64             | 5.92                    |
| 22 13 16 00-0533 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                | 14.01<br>3.17             | 7.05                    |
| 22 13 16 00-0534 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                | 22.22<br>4.55             | 10.15                   |
| 22 13 16 00-0535 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                | 26.62<br>4.94             | 11.00                   |
| 22 13 16 00-0536 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                | 36.58<br>5.61             | 12.49                   |
| 22 13 16 00-0537 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                | 52.76<br>7.49             | 16.61                   |
| 22 13 16 00-0538 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....<br><i>For Work In Restricted Working Space, Add</i>               | 79.60<br>9.99             | 22.23                   |
| <b>22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)</b>   |                           |                         |
| <b>22 13 16 00-0540 Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0539)</b>  |                           |                         |
| 22 13 16 00-0541 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                               | 41.45<br>10.58            | 23.54                   |
| 22 13 16 00-0542 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 52.98<br>13.53            | 30.03                   |
| 22 13 16 00-0543 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 85.08<br>18.19            | 40.32                   |
| 22 13 16 00-0544 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 122.37<br>21.15           | 46.95                   |
| 22 13 16 00-0545 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 407.32<br>27.49           | 61.05                   |
| 22 13 16 00-0546 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 664.10<br>37.01           | 82.20                   |
| 22 13 16 00-0547 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 877.40<br>49.34           | 109.54                  |
| <b>22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0539)</b>   |                           |                         |
| 22 13 16 00-0549 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                    | 58.86<br>10.58            | 23.54                   |
| 22 13 16 00-0550 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 63.00<br>13.53            | 30.03                   |
| 22 13 16 00-0551 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 110.84<br>18.19           | 40.32                   |
| 22 13 16 00-0552 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 169.60<br>21.15           | 46.95                   |
| 22 13 16 00-0553 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 316.10<br>27.49           | 61.05                   |
| 22 13 16 00-0554 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 544.21<br>37.01           | 82.20                   |
| 22 13 16 00-0555 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                       | 875.25<br>49.34           | 109.54                  |
| <b>22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0539)</b>  |                           |                         |
| 22 13 16 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                               | 42.88<br>10.58            | 23.54                   |
| 22 13 16 00-0558 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 52.86<br>13.53            | 30.03                   |
| 22 13 16 00-0559 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 82.93<br>18.19            | 40.32                   |
| 22 13 16 00-0560 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 111.87<br>21.15           | 46.95                   |
| 22 13 16 00-0561 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 380.61<br>27.49           | 61.05                   |
| 22 13 16 00-0562 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 602.00<br>37.01           | 82.20                   |
| 22 13 16 00-0563 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 694.75<br>49.34           | 109.54                  |
| <b>22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0539)</b>  |                           |                         |
| 22 13 16 00-0565 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                           | 63.95<br>15.86            | 35.25                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0566 EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                               | 83.54<br>20.30            | 45.11                   |
| 22 13 16 00-0567 EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                               | 133.15<br>27.28           | 60.63                   |
| 22 13 16 00-0568 EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                               | 186.24<br>31.72           | 70.49                   |
| 22 13 16 00-0569 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                               | 605.70<br>41.24           | 91.50                   |
| 22 13 16 00-0570 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                               | 790.37<br>55.51           | 123.21                  |
| <b>22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0572 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>   | 77.84<br>17.34            | 38.48                   |
| 22 13 16 00-0573 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 90.41<br>18.82            | 41.73                   |
| 22 13 16 00-0574 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 78.60<br>18.82            | 41.73                   |
| 22 13 16 00-0575 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 110.56<br>23.47           | 52.16                   |
| 22 13 16 00-0576 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 113.95<br>24.95           | 55.41                   |
| 22 13 16 00-0577 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 131.52<br>26.43           | 58.65                   |
| 22 13 16 00-0578 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 202.17<br>27.92           | 62.03                   |
| 22 13 16 00-0579 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 249.16<br>30.24           | 67.10                   |
| 22 13 16 00-0580 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 579.71<br>38.06           | 84.45                   |
| 22 13 16 00-0581 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 1,734.88<br>47.58         | 105.60                  |
| 22 13 16 00-0582 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 1,796.28<br>50.75         | 112.64                  |
| <b>22 13 16 00-0583 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0584 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                   | 103.88<br>21.15           | 46.95                   |
| 22 13 16 00-0585 EA 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                        | 139.13<br>27.07           | 60.05                   |
| 22 13 16 00-0586 EA 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                        | 258.39<br>36.37           | 80.78                   |
| 22 13 16 00-0587 EA 4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                        | 361.49<br>42.29           | 93.89                   |
| <b>22 13 16 00-0588 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0539)  |                           |                         |
| 22 13 16 00-0589 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i> | 124.56<br>24.11           | 53.58                   |
| 22 13 16 00-0590 EA 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i> | 199.68<br>28.76           | 63.86                   |
| 22 13 16 00-0591 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i>         | 228.75<br>31.72           | 70.49                   |
| 22 13 16 00-0592 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i>         | 386.49<br>34.68           | 76.98                   |
| 22 13 16 00-0593 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i>         | 409.45<br>39.34           | 87.26                   |
| <b>22 13 16 00-0594 Polyvinyl Chloride (PVC) DWV Reducers</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0595 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers .....<br><i>For Work In Restricted Working Space, Add</i>                          | 52.58<br>12.05            | 26.79                   |
| 22 13 16 00-0596 EA 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers .....<br><i>For Work In Restricted Working Space, Add</i>                          | 87.54<br>14.38            | 31.86                   |
| 22 13 16 00-0597 EA 3" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 86.01<br>15.86            | 35.25                   |
| 22 13 16 00-0598 EA 4" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 123.39<br>17.34           | 38.48                   |
| 22 13 16 00-0599 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 134.13<br>19.67           | 43.70                   |
| 22 13 16 00-0600 EA 6" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 422.58<br>22.84           | 50.75                   |
| 22 13 16 00-0601 EA 6" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 359.30<br>24.32           | 54.00                   |
| 22 13 16 00-0602 EA 8" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 860.40<br>29.08           | 64.57                   |
| 22 13 16 00-0603 EA 8" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 735.66<br>32.25           | 71.62                   |
| 22 13 16 00-0604 EA 10" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                              | 983.03<br>38.42           | 85.29                   |





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0605 EA 10" x 8" Polyvinyl Chloride (PVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                  | 785.33<br>43.18           | 95.87                   |
| <b>22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0539)</b>  |                           |                         |
| 22 13 16 00-0607 EA 1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                    | 74.57<br>15.86            | 35.25                   |
| 22 13 16 00-0608 EA 2" Polyvinyl Chloride (PVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                        | 97.26<br>20.30            | 45.11                   |
| 22 13 16 00-0609 EA 3" Polyvinyl Chloride (PVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                        | 238.22<br>27.28           | 60.63                   |
| 22 13 16 00-0610 EA 4" Polyvinyl Chloride (PVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                        | 456.49<br>31.72           | 70.49                   |
| 22 13 16 00-0611 EA 6" Polyvinyl Chloride (PVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                        | 757.61<br>41.24           | 91.50                   |
| <b>22 13 16 00-0612 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0539)</b>   |                           |                         |
| 22 13 16 00-0613 EA 4" Polyvinyl Chloride (PVC) DWV Closet Flanges .....<br><i>For Work In Restricted Working Space, Add</i>                 | 112.11<br>21.15           | 46.95                   |
| 22 13 16 00-0614 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges .....<br><i>For Work In Restricted Working Space, Add</i>            | 94.65<br>19.67            | 43.70                   |
| <b>22 13 16 00-0615 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0539)</b>   |                           |                         |
| 22 13 16 00-0616 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                       | 75.04<br>15.86            | 35.25                   |
| 22 13 16 00-0617 EA 2" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                           | 89.98<br>20.30            | 45.11                   |
| 22 13 16 00-0618 EA 3" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                           | 141.38<br>27.28           | 60.63                   |
| 22 13 16 00-0619 EA 4" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                           | 199.72<br>31.72           | 70.49                   |
| 22 13 16 00-0620 EA 6" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                           | 555.13<br>41.24           | 91.50                   |
| 22 13 16 00-0621 EA 8" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                           | 694.31<br>55.51           | 123.21                  |
| 22 13 16 00-0622 EA 10" Polyvinyl Chloride (PVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                          | 914.96<br>74.01           | 164.24                  |
| <b>22 13 16 00-0623 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)</b>  |                           |                         |
| 22 13 16 00-0624 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i> | 97.40<br>17.34            | 38.48                   |
| 22 13 16 00-0625 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>     | 101.98<br>18.82           | 41.73                   |
| 22 13 16 00-0626 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>     | 139.88<br>23.47           | 52.16                   |
| 22 13 16 00-0627 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 122.18<br>24.95           | 55.41                   |
| 22 13 16 00-0628 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>     | 185.98<br>26.43           | 58.65                   |
| 22 13 16 00-0629 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 168.54<br>27.92           | 62.03                   |
| 22 13 16 00-0630 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 188.93<br>30.24           | 67.10                   |
| 22 13 16 00-0631 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 500.85<br>36.59           | 81.20                   |
| 22 13 16 00-0632 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 611.48<br>38.06           | 84.45                   |
| 22 13 16 00-0633 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 595.08<br>47.58           | 105.60                  |
| 22 13 16 00-0634 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 740.29<br>50.75           | 112.64                  |
| 22 13 16 00-0635 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>       | 691.49<br>59.92           | 132.95                  |
| 22 13 16 00-0636 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>       | 848.32<br>63.09           | 140.00                  |
| 22 13 16 00-0637 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>       | 980.96<br>67.84           | 150.56                  |
| <b>22 13 16 00-0638 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)</b>  |                           |                         |
| 22 13 16 00-0639 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                 | 117.72<br>21.15           | 46.95                   |
| 22 13 16 00-0640 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                     | 150.93<br>27.07           | 60.05                   |
| 22 13 16 00-0641 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                     | 278.07<br>36.37           | 80.78                   |
| 22 13 16 00-0642 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                     | 458.93<br>42.29           | 93.89                   |
| 22 13 16 00-0643 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                     | 903.36<br>54.98           | 122.09                  |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|--|---------------------------|-------------------------|
| 22 13 16 00-0644        | EA  |     | 8" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,059.39<br>74.02         | 164.38                  |
| 22 13 16 00-0645        | EA  |     | 10" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,623.91<br>98.68         | 219.08                  |
| <b>22 13 16 00-0646</b> |     |     | <b>Polyvinyl Chloride (PVC) DWV Reducing Double Wyes</b> (22 13 16 00-0539)  |                           |                         |
| 22 13 16 00-0647        | EA  |     | 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                          | 135.82<br>24.11           | 53.58                   |
| 22 13 16 00-0648        | EA  |     | 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                          | 233.48<br>28.76           | 63.86                   |
| 22 13 16 00-0649        | EA  |     | 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 222.50<br>31.72           | 70.49                   |
| 22 13 16 00-0650        | EA  |     | 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 306.20<br>34.68           | 76.98                   |
| 22 13 16 00-0651        | EA  |     | 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 382.88<br>39.34           | 87.26                   |
| 22 13 16 00-0652        | EA  |     | 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 575.63<br>48.64           | 107.99                  |
| 22 13 16 00-0653        | EA  |     | 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 675.33<br>58.15           | 129.14                  |
| 22 13 16 00-0654        | EA  |     | 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                  | 848.01<br>64.50           | 143.23                  |
| 22 13 16 00-0655        | EA  |     | 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                | 898.80<br>70.49           | 156.49                  |
| 22 13 16 00-0656        | EA  |     | 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                | 1,149.21<br>76.83         | 170.59                  |
| 22 13 16 00-0657        | EA  |     | 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                | 1,381.80<br>86.35         | 191.73                  |
| <b>22 13 16 00-0658</b> |     |     | <b>Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0659        | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                          | 88.88<br>15.86            | 35.25                   |
| 22 13 16 00-0660        | EA  |     | 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                              | 111.57<br>20.30           | 45.11                   |
| 22 13 16 00-0661        | EA  |     | 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                              | 206.25<br>27.28           | 60.63                   |
| 22 13 16 00-0662        | EA  |     | 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                              | 345.22<br>31.72           | 70.49                   |
| <b>22 13 16 00-0663</b> |     |     | <b>Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends</b> (22 13 16 00-0539)  |                           |                         |
| 22 13 16 00-0664        | EA  |     | 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                | 153.62<br>18.82           | 41.73                   |
| 22 13 16 00-0665        | EA  |     | 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                | 236.12<br>23.47           | 52.16                   |
| 22 13 16 00-0666        | EA  |     | 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                    | 181.86<br>24.95           | 55.41                   |
| 22 13 16 00-0667        | EA  |     | 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                    | 312.57<br>27.92           | 62.03                   |
| 22 13 16 00-0668        | EA  |     | 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                    | 338.57<br>30.24           | 67.10                   |
| <b>22 13 16 00-0669</b> |     |     | <b>Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends</b> (22 13 16 00-0539)  |                           |                         |
| 22 13 16 00-0670        | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                    | 128.45<br>21.15           | 46.95                   |
| 22 13 16 00-0671        | EA  |     | 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 152.13<br>27.07           | 60.05                   |
| 22 13 16 00-0672        | EA  |     | 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 228.81<br>36.37           | 80.78                   |
| 22 13 16 00-0673        | EA  |     | 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 707.71<br>42.29           | 93.89                   |
| 22 13 16 00-0674        | EA  |     | 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>                        | 2,240.81<br>54.98         | 122.09                  |
| <b>22 13 16 00-0675</b> |     |     | <b>Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0676        | EA  |     | 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i> | 270.01<br>24.11           | 53.58                   |
| 22 13 16 00-0677        | EA  |     | 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>         | 427.05<br>31.72           | 70.49                   |
| 22 13 16 00-0678        | EA  |     | 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>         | 714.43<br>34.68           | 76.98                   |
| 22 13 16 00-0679        | EA  |     | 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>         | 655.19<br>39.34           | 87.26                   |
| 22 13 16 00-0680        | EA  |     | 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....<br><i>For Work In Restricted Working Space, Add</i>         | 1,506.31<br>48.64         | 107.99                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 13 16 00-0681 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0682 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 173.25<br>20.30           | 45.11                   |
| 22 13 16 00-0683 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 292.61<br>27.28           | 60.63                   |
| 22 13 16 00-0684 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 456.55<br>31.72           | 70.49                   |
| 22 13 16 00-0685 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,156.80<br>41.24         | 91.50                   |
| 22 13 16 00-0686 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,454.20<br>55.51         | 123.21                  |
| 22 13 16 00-0687 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,930.13<br>74.01         | 164.24                  |
| <b>22 13 16 00-0688 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0689 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug.....<br><i>For Work In Restricted Working Space, Add</i>  | 53.50<br>10.58            | 23.54                   |
| 22 13 16 00-0690 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 74.57<br>13.53            | 30.03                   |
| 22 13 16 00-0691 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 105.95<br>18.19           | 40.32                   |
| 22 13 16 00-0692 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 176.99<br>21.15           | 46.95                   |
| 22 13 16 00-0693 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 383.95<br>27.49           | 61.05                   |
| 22 13 16 00-0694 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>   | 836.13<br>37.01           | 82.20                   |
| 22 13 16 00-0695 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,520.32<br>49.31         | 109.54                  |
| <b>22 13 16 00-0696 Polyvinyl Chloride (PVC) Couplings</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0697 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>   | 40.66<br>10.58            | 23.54                   |
| 22 13 16 00-0698 EA 2" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>   | 51.19<br>13.53            | 30.03                   |
| 22 13 16 00-0699 EA 3" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>   | 76.18<br>18.19            | 40.32                   |
| 22 13 16 00-0700 EA 4" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>   | 96.04<br>21.15            | 46.95                   |
| 22 13 16 00-0701 EA 6" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>   | 232.63<br>27.49           | 61.05                   |
| 22 13 16 00-0702 EA 8" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>   | 530.63<br>37.01           | 82.20                   |
| 22 13 16 00-0703 EA 10" Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>  | 795.61<br>49.34           | 109.54                  |
| <b>22 13 16 00-0704 Polyvinyl Chloride (PVC) Male Adapters</b> (22 13 16 00-0539)   |                           |                         |
| 22 13 16 00-0705 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>   | 23.09<br>5.29             | 11.70                   |
| 22 13 16 00-0706 EA 2" Polyvinyl Chloride (PVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>   | 36.02<br>6.77             | 15.08                   |
| 22 13 16 00-0707 EA 3" Polyvinyl Chloride (PVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>   | 67.65<br>9.09             | 20.16                   |
| 22 13 16 00-0708 EA 4" Polyvinyl Chloride (PVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>   | 120.82<br>10.58           | 23.54                   |
| <b>22 13 16 00-0709 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe</b> (22 13 16 00-0504)   |                           |                         |
| Note: In place piping.  |                           |                         |
| 22 13 16 00-0710 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....   | 10.33                     |                         |
| 22 13 16 00-0711 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....   | 11.37                     |                         |
| 22 13 16 00-0712 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....   | 14.48                     |                         |
| 22 13 16 00-0713 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....   | 19.52                     |                         |
| 22 13 16 00-0714 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....   | 27.90                     |                         |
| 22 13 16 00-0715 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....   | 37.21                     |                         |
| 22 13 16 00-0716 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....  | 45.49                     |                         |
| <b>22 13 16 00-0717 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings</b> (22 13 16)   |                           |                         |
| Note: Aboveground installation.   |                           |                         |
| <b>22 13 16 00-0718 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies</b> (22 13 16 00-0717)  |                           |                         |
| Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available. |                           |                         |
| 22 13 16 00-0719 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....<br><i>For Work In Restricted Working Space, Add</i>   | 34.60<br>8.11             | 5.92                    |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 22 13 16 00-0720        | LF  |     | 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i> | 38.45<br>8.98          | 7.05                 |
| 22 13 16 00-0721        | LF  |     | 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i> | 52.62<br>11.16         | 10.15                |
| 22 13 16 00-0722        | LF  |     | 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i> | 60.65<br>12.39         | 11.00                |
| 22 13 16 00-0723        | LF  |     | 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly .....<br>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i> | 101.57<br>16.48        | 14.10                |
| <b>22 13 16 00-0724</b> |     |     | <b>Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628)</b> <small>(22 13 16 00-0717)</small><br>Note: Excludes fittings or hangers.  |                        |                      |
| 22 13 16 00-0725        | LF  |     | 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 12.00<br>2.64          | 5.92                 |
| 22 13 16 00-0726        | LF  |     | 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 14.85<br>3.17          | 7.05                 |
| 22 13 16 00-0727        | LF  |     | 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 24.02<br>4.55          | 10.15                |
| 22 13 16 00-0728        | LF  |     | 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 29.11<br>4.94          | 11.00                |
| 22 13 16 00-0729        | LF  |     | 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 44.52<br>5.61          | 12.49                |
| <b>22 13 16 00-0730</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661)</b> <small>(22 13 16 00-0717)</small>  |                        |                      |
| <b>22 13 16 00-0731</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends</b> <small>(22 13 16 00-0730)</small>   |                        |                      |
| 22 13 16 00-0732        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 48.82<br>10.58         | 23.54                |
| 22 13 16 00-0733        | EA  |     | 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 64.46<br>13.53         | 30.03                |
| 22 13 16 00-0734        | EA  |     | 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 120.33<br>18.19        | 40.32                |
| 22 13 16 00-0735        | EA  |     | 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 187.47<br>21.15        | 46.95                |
| 22 13 16 00-0736        | EA  |     | 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 528.26<br>27.49        | 61.05                |
| <b>22 13 16 00-0737</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends</b> <small>(22 13 16 00-0730)</small>  |                        |                      |
| 22 13 16 00-0738        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>  | 67.57<br>10.58         | 23.54                |
| 22 13 16 00-0739        | EA  |     | 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>  | 82.79<br>13.53         | 30.03                |
| 22 13 16 00-0740        | EA  |     | 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>  | 165.85<br>18.19        | 40.32                |
| 22 13 16 00-0741        | EA  |     | 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends .....<br><i>For Work In Restricted Working Space, Add</i>  | 278.03<br>21.15        | 46.95                |
| <b>22 13 16 00-0742</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends</b> <small>(22 13 16 00-0730)</small>   |                        |                      |
| 22 13 16 00-0743        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 51.35<br>10.58         | 23.54                |
| 22 13 16 00-0744        | EA  |     | 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 62.68<br>13.53         | 30.03                |
| 22 13 16 00-0745        | EA  |     | 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 111.00<br>18.19        | 40.32                |
| 22 13 16 00-0746        | EA  |     | 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 170.24<br>21.15        | 46.95                |
| 22 13 16 00-0747        | EA  |     | 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>   | 546.43<br>27.49        | 61.05                |
| <b>22 13 16 00-0748</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees</b> <small>(22 13 16 00-0730)</small>   |                        |                      |
| 22 13 16 00-0749        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>   | 75.96<br>15.86         | 35.25                |
| 22 13 16 00-0750        | EA  |     | 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>   | 102.40<br>20.30        | 45.11                |
| 22 13 16 00-0751        | EA  |     | 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>   | 179.40<br>27.28        | 60.63                |
| 22 13 16 00-0752        | EA  |     | 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>   | 275.72<br>31.72        | 70.49                |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 22 13 16 00-0753        | EA  |     | 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                                | 1,058.82<br>41.24      | 91.50                |
| <b>22 13 16 00-0754</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees</b> (22 13 16 00-0730)   |                        |                      |
| 22 13 16 00-0755        | EA  |     | 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>    | 94.63<br>17.34         | 38.48                |
| 22 13 16 00-0756        | EA  |     | 2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>        | 114.46<br>18.82        | 41.73                |
| 22 13 16 00-0757        | EA  |     | 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>        | 96.02<br>18.82         | 41.73                |
| 22 13 16 00-0758        | EA  |     | 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>        | 145.81<br>23.47        | 52.16                |
| 22 13 16 00-0759        | EA  |     | 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>             | 151.37<br>24.95        | 55.41                |
| 22 13 16 00-0760        | EA  |     | 4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>        | 333.10<br>26.43        | 58.65                |
| 22 13 16 00-0761        | EA  |     | 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>             | 321.74<br>27.92        | 62.03                |
| 22 13 16 00-0762        | EA  |     | 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>             | 368.98<br>30.24        | 67.10                |
| 22 13 16 00-0763        | EA  |     | 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>             | 1,157.03<br>38.06      | 84.45                |
| <b>22 13 16 00-0764</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees</b> (22 13 16 00-0730)   |                        |                      |
| 22 13 16 00-0765        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                    | 140.66<br>21.15        | 46.95                |
| 22 13 16 00-0766        | EA  |     | 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                        | 192.60<br>27.07        | 60.05                |
| 22 13 16 00-0767        | EA  |     | 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                        | 408.82<br>36.37        | 80.78                |
| 22 13 16 00-0768        | EA  |     | 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                        | 601.89<br>42.29        | 93.89                |
| <b>22 13 16 00-0769</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0730)  |                        |                      |
| 22 13 16 00-0770        | EA  |     | 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i> | 159.95<br>24.11        | 53.58                |
| 22 13 16 00-0771        | EA  |     | 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>  | 242.44<br>28.76        | 63.86                |
| 22 13 16 00-0772        | EA  |     | 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>         | 279.16<br>31.72        | 70.49                |
| 22 13 16 00-0773        | EA  |     | 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                  | 484.38<br>30.73        | 68.20                |
| 22 13 16 00-0774        | EA  |     | 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>         | 508.66<br>34.85        | 77.32                |
| <b>22 13 16 00-0775</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Wyes</b> (22 13 16 00-0730)   |                        |                      |
| 22 13 16 00-0776        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                     | 99.37<br>15.86         | 35.25                |
| 22 13 16 00-0777        | EA  |     | 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....<br><i>For Work In Restricted Working Space, Add</i>   | 115.43<br>20.30        | 45.11                |
| 22 13 16 00-0778        | EA  |     | 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....<br><i>For Work In Restricted Working Space, Add</i>   | 196.60<br>27.28        | 60.63                |
| 22 13 16 00-0779        | EA  |     | 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....<br><i>For Work In Restricted Working Space, Add</i>   | 302.62<br>31.72        | 70.49                |
| 22 13 16 00-0780        | EA  |     | 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes.....<br><i>For Work In Restricted Working Space, Add</i>   | 859.88<br>41.24        | 91.50                |
| <b>22 13 16 00-0781</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes</b> (22 13 16 00-0730)  |                        |                      |
| 22 13 16 00-0782        | EA  |     | 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>             | 140.77<br>17.34        | 38.48                |
| 22 13 16 00-0783        | EA  |     | 2" x 2" X 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                 | 144.87<br>18.82        | 41.73                |
| 22 13 16 00-0784        | EA  |     | 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                      | 165.31<br>24.95        | 55.41                |
| 22 13 16 00-0785        | EA  |     | 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                      | 251.24<br>27.92        | 62.03                |
| 22 13 16 00-0786        | EA  |     | 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                      | 285.61<br>30.24        | 67.10                |
| 22 13 16 00-0787        | EA  |     | 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                      | 723.76<br>38.06        | 84.45                |
| <b>22 13 16 00-0788</b> |     |     | <b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes</b> (22 13 16 00-0730)  |                        |                      |
| 22 13 16 00-0789        | EA  |     | 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                             | 169.40<br>21.15        | 46.95                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0790 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>   | 217.45<br>27.07           | 60.05                   |
| 22 13 16 00-0791 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>   | 450.14<br>36.37           | 80.78                   |
| 22 13 16 00-0792 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>   | 807.23<br>42.29           | 93.89                   |
| <b>22 13 16 00-0793 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes</b> <small>(22 13 16 00-0730)</small>   |                           |                         |
| 22 13 16 00-0794 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                          | 196.55<br>24.11           | 53.58                   |
| 22 13 16 00-0795 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                          | 327.86<br>28.76           | 63.86                   |
| 22 13 16 00-0796 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                                  | 349.92<br>31.72           | 70.49                   |
| 22 13 16 00-0797 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                                  | 515.06<br>34.68           | 76.98                   |
| 22 13 16 00-0798 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                                  | 658.76<br>39.34           | 87.26                   |
| <b>22 13 16 00-0799 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>   |                           |                         |
| 22 13 16 00-0800 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                           | 127.15<br>15.86           | 35.25                   |
| 22 13 16 00-0801 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 164.22<br>20.30           | 45.11                   |
| 22 13 16 00-0802 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 249.99<br>27.28           | 60.63                   |
| 22 13 16 00-0803 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 405.94<br>28.10           | 62.46                   |
| <b>22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>  |                           |                         |
| 22 13 16 00-0805 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                 | 140.92<br>18.82           | 41.73                   |
| 22 13 16 00-0806 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                 | 263.36<br>23.47           | 52.16                   |
| 22 13 16 00-0807 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 198.87<br>24.95           | 55.41                   |
| 22 13 16 00-0808 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 350.74<br>27.92           | 62.03                   |
| 22 13 16 00-0809 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 379.83<br>30.24           | 67.10                   |
| <b>22 13 16 00-0810 Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>  |                           |                         |
| 22 13 16 00-0811 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                        | 265.00<br>27.07           | 60.05                   |
| 22 13 16 00-0812 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                        | 524.34<br>36.37           | 80.78                   |
| <b>22 13 16 00-0813 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>                                       |                           |                         |
| 22 13 16 00-0814 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i> | 221.01<br>24.11           | 53.58                   |
| 22 13 16 00-0815 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>         | 501.96<br>31.72           | 70.49                   |
| <b>22 13 16 00-0816 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug</b> <small>(22 13 16 00-0730)</small>  |                           |                         |
| 22 13 16 00-0817 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>                                 | 140.23<br>15.86           | 35.25                   |
| 22 13 16 00-0818 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 177.30<br>20.30           | 45.11                   |
| 22 13 16 00-0819 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 279.24<br>27.28           | 60.63                   |
| 22 13 16 00-0820 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 457.73<br>31.72           | 70.49                   |
| <b>22 13 16 00-0821 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug</b> <small>(22 13 16 00-0730)</small>  |                           |                         |
| 22 13 16 00-0822 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>                             | 65.20<br>10.58            | 23.54                   |
| 22 13 16 00-0823 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>                                 | 93.45<br>13.53            | 30.03                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 16 00-0824 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug<br><i>For Work In Restricted Working Space, Add</i>                            | 134.92<br>18.19           | 40.32                   |
| 22 13 16 00-0825 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug<br><i>For Work In Restricted Working Space, Add</i>                            | 245.37<br>21.15           | 46.95                   |
| 22 13 16 00-0826 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug<br><i>For Work In Restricted Working Space, Add</i>                            | 571.76<br>27.49           | 61.05                   |
| <b>22 13 16 00-0827 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings</b> (22 13 16 00-0730)  |                           |                         |
| 22 13 16 00-0828 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings<br><i>For Work In Restricted Working Space, Add</i>  | 45.57<br>10.58            | 23.54                   |
| 22 13 16 00-0829 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings<br><i>For Work In Restricted Working Space, Add</i>  | 56.00<br>13.53            | 30.03                   |
| 22 13 16 00-0830 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings<br><i>For Work In Restricted Working Space, Add</i>  | 90.24<br>18.19            | 40.32                   |
| 22 13 16 00-0831 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings<br><i>For Work In Restricted Working Space, Add</i>  | 119.31<br>21.15           | 46.95                   |
| 22 13 16 00-0832 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings<br><i>For Work In Restricted Working Space, Add</i>  | 332.94<br>27.49           | 61.05                   |
| <b>22 13 16 00-0833 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers</b> (22 13 16 00-0730)   |                           |                         |
| 22 13 16 00-0834 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers<br><i>For Work In Restricted Working Space, Add</i>                                      | 66.35<br>12.05            | 26.79                   |
| 22 13 16 00-0835 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers<br><i>For Work In Restricted Working Space, Add</i>                                      | 130.91<br>14.38           | 31.86                   |
| 22 13 16 00-0836 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers<br><i>For Work In Restricted Working Space, Add</i>  | 122.44<br>15.86           | 35.25                   |
| 22 13 16 00-0837 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers<br><i>For Work In Restricted Working Space, Add</i>  | 195.03<br>17.34           | 38.48                   |
| 22 13 16 00-0838 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers<br><i>For Work In Restricted Working Space, Add</i>  | 209.13<br>19.67           | 43.70                   |
| <b>22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps</b> (22 13 16 00-0730)  |                           |                         |
| 22 13 16 00-0840 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps<br><i>For Work In Restricted Working Space, Add</i>  | 103.60<br>15.86           | 35.25                   |
| 22 13 16 00-0841 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps<br><i>For Work In Restricted Working Space, Add</i>  | 149.81<br>20.30           | 45.11                   |
| 22 13 16 00-0842 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps<br><i>For Work In Restricted Working Space, Add</i>  | 467.09<br>27.28           | 60.63                   |
| 22 13 16 00-0843 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps<br><i>For Work In Restricted Working Space, Add</i>  | 876.40<br>31.72           | 70.49                   |
| <b>22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges</b> (22 13 16 00-0730)   |                           |                         |
| 22 13 16 00-0845 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges<br><i>For Work In Restricted Working Space, Add</i>   | 141.33<br>21.15           | 46.95                   |
| 22 13 16 00-0846 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges<br><i>For Work In Restricted Working Space, Add</i>                                    | 131.99<br>19.67           | 43.70                   |
| <b>22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters</b> (22 13 16 00-0730)  |                           |                         |
| 22 13 16 00-0848 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters<br><i>For Work In Restricted Working Space, Add</i>                                      | 30.79<br>5.29             | 11.70                   |
| 22 13 16 00-0849 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters<br><i>For Work In Restricted Working Space, Add</i>  | 45.91<br>6.77             | 15.08                   |
| 22 13 16 00-0850 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters<br><i>For Work In Restricted Working Space, Add</i>  | 98.33<br>9.09             | 20.16                   |
| 22 13 16 00-0851 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters<br><i>For Work In Restricted Working Space, Add</i>  | 185.74<br>10.58           | 23.54                   |
| <b>22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings</b> (22 13 16 00-0730)   |                           |                         |
| 22 13 16 00-0853 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing<br><i>For Work In Restricted Working Space, Add</i>                                 | 51.07<br>12.05            | 26.79                   |
| 22 13 16 00-0854 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing<br><i>For Work In Restricted Working Space, Add</i>                                 | 106.66<br>14.38           | 31.86                   |
| 22 13 16 00-0855 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing<br><i>For Work In Restricted Working Space, Add</i>                                     | 90.17<br>15.86            | 35.25                   |
| 22 13 16 00-0856 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing<br><i>For Work In Restricted Working Space, Add</i>                                     | 193.14<br>17.34           | 38.48                   |
| 22 13 16 00-0857 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing<br><i>For Work In Restricted Working Space, Add</i>                                     | 143.98<br>19.67           | 43.70                   |
| 22 13 16 00-0858 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing<br><i>For Work In Restricted Working Space, Add</i>                                     | 379.37<br>21.55           | 47.84                   |
| <b>22 13 16 00-0859 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings</b> (22 13 16 00-0730)   |                           |                         |
| 22 13 16 00-0860 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling<br><i>For Work In Restricted Working Space, Add</i> | 124.70<br>10.58           | 23.54                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 16 00-0861 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....<br><i>For Work In Restricted Working Space, Add</i>  | 140.52<br>13.53           | 30.03                   |
| 22 13 16 00-0862 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....<br><i>For Work In Restricted Working Space, Add</i>  | 162.01<br>18.19           | 40.32                   |
| 22 13 16 00-0863 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling .....<br><i>For Work In Restricted Working Space, Add</i>  | 177.83<br>21.15           | 46.95                   |
| <b>22 13 16 00-0864 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe</b><br><small>(22 13 16 00-0717)</small><br>Note: In place piping.   |                           |                         |
| 22 13 16 00-0865 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....  | 10.33                     |                         |
| 22 13 16 00-0866 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....  | 11.37                     |                         |
| 22 13 16 00-0867 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....  | 14.48                     |                         |
| 22 13 16 00-0868 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....  | 19.52                     |                         |
| 22 13 16 00-0869 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....  | 27.90                     |                         |
| <b>22 13 16 00-0870 Elastomeric Flexible Pipe Couplings</b> <small>(22 13 16)</small>  |                           |                         |
| <b>22 13 16 00-0871 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings</b><br><small>(22 13 16 00-0870)</small><br>Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.       |                           |                         |
| 22 13 16 00-0872 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125) .....  | 16.70                     | 6.12                    |
| <i>For Work In Restricted Working Space, Add</i>   | 3.68                      |                         |
| 22 13 16 00-0873 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) .....  | 17.95                     | 6.50                    |
| <i>For Work In Restricted Working Space, Add</i>   | 3.91                      |                         |
| 22 13 16 00-0874 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22) .....   | 18.90                     | 6.90                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.13                      |                         |
| 22 13 16 00-0875 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33) .....   | 21.47                     | 7.28                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.37                      |                         |
| 22 13 16 00-0876 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44) .....   | 23.97                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.59                      |                         |
| 22 13 16 00-0877 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) .....   | 29.65                     | 8.04                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.82                      |                         |
| 22 13 16 00-0878 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) .....   | 35.37                     | 8.42                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.06                      |                         |
| 22 13 16 00-0879 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) .....   | 46.86                     | 9.19                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.51                      |                         |
| 22 13 16 00-0880 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) .....  | 61.03                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.43                      |                         |
| <b>22 13 16 00-0881 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings</b> <small>(22 13 16 00-0870)</small><br>Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. |                           |                         |
| 22 13 16 00-0882 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) .....  | 17.78                     | 6.50                    |
| <i>For Work In Restricted Working Space, Add</i>   | 3.91                      |                         |
| 22 13 16 00-0883 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) .....  | 19.19                     | 6.90                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.13                      |                         |
| 22 13 16 00-0884 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) .....  | 22.89                     | 7.28                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.37                      |                         |
| 22 13 16 00-0885 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) .....   | 20.94                     | 7.28                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.37                      |                         |
| 22 13 16 00-0886 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) .....  | 27.48                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.59                      |                         |
| 22 13 16 00-0887 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) .....   | 26.49                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.59                      |                         |
| 22 13 16 00-0888 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) .....   | 24.63                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.59                      |                         |
| 22 13 16 00-0889 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) .....   | 34.00                     | 8.04                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.82                      |                         |
| 22 13 16 00-0890 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) .....   | 31.16                     | 8.04                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.82                      |                         |
| 22 13 16 00-0891 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) .....   | 41.22                     | 8.42                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.06                      |                         |
| 22 13 16 00-0892 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) .....   | 36.98                     | 8.42                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.06                      |                         |
| 22 13 16 00-0893 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) .....   | 38.16                     | 8.42                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.06                      |                         |
| 22 13 16 00-0894 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) .....   | 74.22                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 22 13 16 00-0895 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) .....   | 62.47                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 22 13 16 00-0896 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) .....  | 77.82                     | 17.23                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.34                     |                         |
| <b>22 13 16 00-0897 Elastomeric Flexible Pipe Caps (Fernco QC)</b> <small>(22 13 16)</small><br>Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.  |                           |                         |
| 22 13 16 00-0898 EA 1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....  | 65.98                     | 41.34                   |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 16 00-0899 EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....   | 70.61                     | 43.95                   |
| 22 13 16 00-0900 EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....   | 81.57                     | 50.38                   |
| 22 13 16 00-0901 EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....   | 107.72                    | 66.62                   |
| 22 13 16 00-0902 EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....   | 129.00                    | 79.63                   |
| 22 13 16 00-0903 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....   | 149.19                    | 91.88                   |
| 22 13 16 00-0904 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....   | 197.56                    | 116.38                  |
| 22 13 16 00-0905 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....  | 238.23                    | 130.16                  |
| 22 13 16 00-0906 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....  | 293.83                    | 144.71                  |
| <b>22 13 16 00-0907 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)</b>        |                           |                         |
| 22 13 16 00-0908 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....                               | 113.37                    | 31.72                   |
| 22 13 16 00-0909 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....                                    | 120.42                    | 35.25                   |
| 22 13 16 00-0910 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....                                    | 177.23                    | 45.81                   |
| 22 13 16 00-0911 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....                                    | 207.38                    | 52.86                   |
| 22 13 16 00-0912 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....                                    | 241.07                    | 59.91                   |
| 22 13 16 00-0913 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....                                    | 390.69                    | 66.96                   |
| <b>22 13 16 00-0914 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)</b> |                           |                         |
| 22 13 16 00-0915 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....                        | 218.95                    | 31.72                   |
| 22 13 16 00-0916 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....                            | 226.00                    | 35.25                   |
| 22 13 16 00-0917 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....                            | 270.40                    | 45.81                   |
| 22 13 16 00-0918 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....                            | 336.32                    | 52.86                   |
| 22 13 16 00-0919 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....                            | 454.09                    | 59.91                   |
| 22 13 16 00-0920 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....                            | 468.19                    | 66.96                   |
| <b>22 13 16 00-0921 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)</b>                            |                           |                         |
| Note: Includes counterflashing collar, deep protective hood and recessed securing screws.                                 |                           |                         |
| 22 13 16 00-0922 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....  | 404.82                    | 31.72                   |
| 22 13 16 00-0923 EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....  | 411.87                    | 35.25                   |
| 22 13 16 00-0924 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....  | 475.69                    | 45.81                   |
| 22 13 16 00-0925 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....  | 536.02                    | 52.86                   |
| 22 13 16 00-0926 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....  | 624.80                    | 59.91                   |
| 22 13 16 00-0927 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....  | 683.35                    | 66.96                   |
| <b>22 13 19 Sanitary Waste Piping Specialties (22 13)</b>   |                           |                         |
| <b>22 13 19 13 Sanitary Drains (22 13 19)</b>   |                           |                         |
| <b>22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)</b>  |                           |                         |
| 22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....  | 927.65                    | 151.55                  |
| For Galvanized Cast Iron Parts, Add   | 105.00                    |                         |
| For Sediment Bucket, Add  | 22.50                     |                         |
| For Vandal Proof Screws, Add  | 11.00                     |                         |
| 22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....  | 1,020.15                  | 169.88                  |
| For Galvanized Cast Iron Parts, Add   | 105.00                    |                         |
| For Sediment Bucket, Add  | 22.50                     |                         |
| For Vandal Proof Screws, Add  | 11.00                     |                         |
| 22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....  | 1,000.54                  | 187.93                  |
| For Galvanized Cast Iron Parts, Add   | 105.00                    |                         |
| For Sediment Bucket, Add  | 22.50                     |                         |
| For Vandal Proof Screws, Add  | 11.00                     |                         |
| 22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....  | 1,039.25                  | 207.38                  |
| For Galvanized Cast Iron Parts, Add   | 105.00                    |                         |
| For Sediment Bucket, Add  | 22.50                     |                         |
| For Vandal Proof Screws, Add  | 11.00                     |                         |
| 22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....   | 935.53                    | 169.88                  |
| For Galvanized Cast Iron Parts, Add   | 87.50                     |                         |
| For Vandal Proof Screws, Add  | 30.50                     |                         |
| For Ductile Iron Grate, Add   | 48.00                     |                         |
| For Cast Iron Dome Grate, Add   | 17.00                     |                         |
| For Nikaloy Dome Grate, Add   | 178.50                    |                         |
| For Bronze Dome Grate, Add  | 143.00                    |                         |
| For Cast Iron Extension Collar, Each 3" (76 mm), Add  | 57.50                     |                         |
| For Galvanized Extension Collar, Each 3", Add   | 117.50                    |                         |
| 22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....   | 971.76                    | 187.93                  |
| For Galvanized Cast Iron Parts, Add   | 87.50                     |                         |
| For Vandal Proof Screws, Add  | 30.50                     |                         |
| For Ductile Iron Grate, Add   | 48.00                     |                         |
| For Cast Iron Dome Grate, Add   | 17.00                     |                         |
| For Nikaloy Dome Grate, Add   | 178.50                    |                         |
| For Bronze Dome Grate, Add  | 143.00                    |                         |
| For Cast Iron Extension Collar, Each 3" (76 mm), Add  | 57.50                     |                         |
| For Galvanized Extension Collar, Each 3", Add   | 117.50                    |                         |



|  |                                   |              |
|--|-----------------------------------|--------------|
|  | <b>Plumbing</b>                   | <b>22</b>    |
|  | <b>Plumbing Piping</b>            | <b>22 10</b> |
|  | <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 22 13 19 13-0008 | EA  |     | Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet .....      | 1,010.47               | 207.38               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0009 | EA  |     | Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet .....        | 1,528.47               | 169.88               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0010 | EA  |     | Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet .....        | 1,564.70               | 187.93               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0011 | EA  |     | Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet .....        | 1,603.41               | 207.38               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0012 | EA  |     | Bronze Top, 9" Round Top Floor Drain With 2" Outlet .....         | 1,442.12               | 169.88               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0013 | EA  |     | Bronze Top, 9" Round Top Floor Drain With 3" Outlet .....         | 1,478.15               | 187.93               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0014 | EA  |     | Bronze Top, 9" Round Top Floor Drain With 4" Outlet .....         | 1,517.06               | 207.38               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 48.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 17.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 178.50                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 143.00                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>       | 57.50                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 3", Add</i>              | 117.50                 |                      |
| 22 13 19 13-0015 | EA  |     | Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet ..... | 1,580.12               | 169.74               |
|                  |     |     | <i>For Chained Grate, Add</i>                                     | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>  | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>               | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>              | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 132.00                 |                      |
| 22 13 19 13-0016 | EA  |     | Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet ..... | 1,616.31               | 187.93               |
|                  |     |     | <i>For Chained Grate, Add</i>                                     | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>  | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                               | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                              | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                 | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>               | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>              | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                        | 132.00                 |                      |

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 22 13 19 13-0017 | EA  |     | Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet .....    | 1,655.22               | 207.38               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0018 | EA  |     | Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet .....      | 2,466.65               | 169.74               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0019 | EA  |     | Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet .....      | 2,502.84               | 187.93               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0020 | EA  |     | Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet .....      | 2,541.75               | 207.38               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0021 | EA  |     | Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....        | 2,348.64               | 169.74               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0022 | EA  |     | Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....        | 2,384.83               | 187.93               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0023 | EA  |     | Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....        | 2,423.74               | 207.38               |
|                  |     |     | <i>For Chained Grate, Add</i>  | 48.50                  |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 33.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>                                   | 53.00                  |                      |
|                  |     |     | <i>For Cast Iron Dome Grate, Add</i>                                 | 28.00                  |                      |
|                  |     |     | <i>For Nikaloy Dome Grate, Add</i>                                   | 255.00                 |                      |
|                  |     |     | <i>For Bronze Dome Grate, Add</i>                                    | 218.50                 |                      |
|                  |     |     | <i>For Cast Iron Extension Collar, Each 2", Add</i>                  | 51.00                  |                      |
|                  |     |     | <i>For Galvanized Extension Collar, Each 2", Add</i>                 | 102.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 132.00                 |                      |
| 22 13 19 13-0024 |     |     | <b>Square Or Rectangular Top Drains</b> <small>(22 13 19 13)</small> |                        |                      |
| 22 13 19 13-0025 | EA  |     | 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....          | 1,099.43               | 169.74               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                           | 105.00                 |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                      | 22.50                  |                      |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                                  | 11.00                  |                      |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST               | DEMOLITION UNIT COST |
|------------------|-----|-----|---|--------------------------------------|----------------------|
| 22 13 19 13-0026 | EA  |     | 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,136.03<br>105.00<br>22.50<br>11.00 | 188.07               |
| 22 13 19 13-0027 | EA  |     | 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,174.53<br>105.00<br>22.50<br>11.00 | 207.38               |
| 22 13 19 13-0028 | EA  |     | 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,185.78<br>105.00<br>22.50<br>11.00 | 169.74               |
| 22 13 19 13-0029 | EA  |     | 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,222.38<br>105.00<br>22.50<br>11.00 | 188.07               |
| 22 13 19 13-0030 | EA  |     | 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,260.88<br>105.00<br>22.50<br>11.00 | 207.38               |
| 22 13 19 13-0031 | EA  |     | 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,565.73<br>105.00<br>22.50<br>11.00 | 169.74               |
| 22 13 19 13-0032 | EA  |     | 8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,602.33<br>105.00<br>22.50<br>11.00 | 188.07               |
| 22 13 19 13-0033 | EA  |     | 8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>     | 1,640.83<br>105.00<br>22.50<br>11.00 | 207.38               |
| 22 13 19 13-0034 | EA  |     | 5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,036.11<br>105.00<br>22.50<br>11.00 | 169.74               |
| 22 13 19 13-0035 | EA  |     | 5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,072.71<br>105.00<br>22.50<br>11.00 | 188.07               |
| 22 13 19 13-0036 | EA  |     | 5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,111.21<br>105.00<br>22.50<br>11.00 | 207.38               |
| 22 13 19 13-0037 | EA  |     | 6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,145.49<br>105.00<br>22.50<br>11.00 | 169.74               |
| 22 13 19 13-0038 | EA  |     | 6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,182.09<br>105.00<br>22.50<br>11.00 | 188.07               |
| 22 13 19 13-0039 | EA  |     | 6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,220.59<br>105.00<br>22.50<br>11.00 | 207.38               |
| 22 13 19 13-0040 | EA  |     | 8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,453.47<br>105.00<br>22.50<br>11.00 | 169.74               |
| 22 13 19 13-0041 | EA  |     | 8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,490.07<br>105.00<br>22.50<br>11.00 | 188.07               |
| 22 13 19 13-0042 | EA  |     | 8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i>      | 1,528.57<br>105.00<br>22.50<br>11.00 | 207.38               |
| 22 13 19 13-0043 | EA  |     | 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top.....<br><i>For Chained Grate, Add</i><br><i>For No-Hub Side Outlet, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 3,712.16<br>48.50<br>76.00<br>318.00 | 188.07               |
| 22 13 19 13-0044 | EA  |     | 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top.....<br><i>For Chained Grate, Add</i><br><i>For No-Hub Side Outlet, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 3,750.66<br>48.50<br>76.00<br>318.00 | 207.38               |
| 22 13 19 13-0045 | EA  |     | 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top.....<br><i>For Chained Grate, Add</i><br><i>For No-Hub Side Outlet, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>   | 4,650.50<br>48.50<br>76.00<br>318.00 | 188.07               |
| 22 13 19 13-0046 | EA  |     | 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top.....<br><i>For Chained Grate, Add</i><br><i>For No-Hub Side Outlet, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>   | 4,689.00<br>48.50<br>76.00<br>318.00 | 207.38               |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 22 13 19 13-0047 | EA  |     | 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....  | 4,538.24                  | 188.07                  |
|                  |     |     | <i>For Chained Grate, Add</i>                                    | 48.50                     |                         |
|                  |     |     | <i>For No-Hub Side Outlet, Add</i>                               | 76.00                     |                         |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                       | 318.00                    |                         |
| 22 13 19 13-0048 | EA  |     | 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....  | 4,576.74                  | 207.38                  |
|                  |     |     | <i>For Chained Grate, Add</i>                                    | 48.50                     |                         |
|                  |     |     | <i>For No-Hub Side Outlet, Add</i>                               | 76.00                     |                         |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>                       | 318.00                    |                         |
| 22 13 19 13-0049 | EA  |     | 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....      | 1,588.75                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0050 | EA  |     | 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....      | 1,625.35                  | 188.07                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0051 | EA  |     | 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....      | 1,663.85                  | 207.38                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0052 | EA  |     | 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....     | 2,034.90                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0053 | EA  |     | 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....     | 2,071.50                  | 188.07                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0054 | EA  |     | 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....     | 2,110.00                  | 207.38                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0055 | EA  |     | 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... | 2,138.52                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0056 | EA  |     | 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... | 2,175.12                  | 188.07                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0057 | EA  |     | 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... | 2,213.62                  | 207.38                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0058 | EA  |     | 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....     | 2,941.58                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0059 | EA  |     | 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....     | 2,978.18                  | 188.07                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0060 | EA  |     | 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....     | 3,016.68                  | 207.38                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0061 | EA  |     | 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....       | 1,496.65                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0062 | EA  |     | 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....       | 1,533.25                  | 188.07                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0063 | EA  |     | 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....       | 1,571.75                  | 207.38                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0064 | EA  |     | 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....      | 1,876.59                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0065 | EA  |     | 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....      | 1,913.19                  | 188.07                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0066 | EA  |     | 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....      | 1,951.69                  | 207.38                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |
| 22 13 19 13-0067 | EA  |     | 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....  | 1,980.21                  | 169.74                  |
|                  |     |     | <i>For Sediment Bucket, Add</i>                                  | 22.50                     |                         |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>                              | 11.00                     |                         |
|                  |     |     | <i>For Rough Bronze Body, Add</i>                                | 120.94                    |                         |



|                 | MINOR          | CSI  | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                | DEMOLITION UNIT COST |
|-----------------|----------------|--|-----|--|---------------------------------------|----------------------|
|                 | 22 13 19       | 13-0068  | EA  | 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....<br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Rough Bronze Body, Add</i>   | 2,016.81<br>22.50<br>11.00<br>120.94  | 188.07               |
|                 | 22 13 19       | 13-0069  | EA  | 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....<br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Rough Bronze Body, Add</i>   | 2,055.31<br>22.50<br>11.00<br>120.94  | 207.38               |
|                 | 22 13 19       | 13-0070  | EA  | 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....<br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Rough Bronze Body, Add</i>   | 2,633.59<br>22.50<br>11.00<br>120.94  | 169.74               |
|                 | 22 13 19       | 13-0071  | EA  | 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....<br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Rough Bronze Body, Add</i>   | 2,670.19<br>22.50<br>11.00<br>120.94  | 188.07               |
|                 | 22 13 19       | 13-0072  | EA  | 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....<br><i>For Sediment Bucket, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Rough Bronze Body, Add</i>   | 2,708.69<br>22.50<br>11.00<br>120.94  | 207.38               |
| <b>22 13 19</b> | <b>13-0073</b> | <b>Funnel Type Floor Drains</b> <small>(22 13 19 13)</small>                       |     |  |                                       |                      |
|                 | 22 13 19       | 13-0074  | EA  | 7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>      | 1,497.70<br>105.00<br>-19.50<br>11.00 | 151.55               |
|                 | 22 13 19       | 13-0075  | EA  | 7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>          | 1,534.07<br>105.00<br>-19.50<br>11.00 | 169.74               |
|                 | 22 13 19       | 13-0076  | EA  | 7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>          | 1,570.26<br>105.00<br>-19.50<br>11.00 | 187.93               |
|                 | 22 13 19       | 13-0077  | EA  | 7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>          | 1,609.17<br>105.00<br>-19.50<br>11.00 | 207.38               |
|                 | 22 13 19       | 13-0078  | EA  | 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i> | 2,181.69<br>105.00<br>-19.50<br>11.00 | 169.74               |
|                 | 22 13 19       | 13-0079  | EA  | 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i> | 2,217.88<br>105.00<br>-19.50<br>11.00 | 187.93               |
|                 | 22 13 19       | 13-0080  | EA  | 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i> | 2,256.79<br>105.00<br>-19.50<br>11.00 | 207.38               |
|                 | 22 13 19       | 13-0081  | EA  | 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>  | 2,069.44<br>105.00<br>-19.50<br>11.00 | 169.74               |
|                 | 22 13 19       | 13-0082  | EA  | 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>  | 2,105.63<br>105.00<br>-19.50<br>11.00 | 187.93               |
|                 | 22 13 19       | 13-0083  | EA  | 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top.....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Satin Finish Bronze Top, Deduct</i><br><i>For Vandal Proof Screws, Add</i>  | 2,144.54<br>105.00<br>-19.50<br>11.00 | 207.38               |
| <b>22 13 19</b> | <b>13-0084</b> | <b>Floor Drain With Sediment Bucket Bottom Outlet</b> <small>(22 13 19 13)</small> |     |  |                                       |                      |
|                 | 22 13 19       | 13-0085  | EA  | 12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....<br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 3,143.98<br>33.50<br>30.50<br>247.00  | 151.55               |
|                 | 22 13 19       | 13-0086  | EA  | 12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....<br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 3,180.48<br>33.50<br>30.50<br>247.00  | 169.74               |
|                 | 22 13 19       | 13-0087  | EA  | 12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....<br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 3,216.67<br>33.50<br>30.50<br>247.00  | 187.93               |
|                 | 22 13 19       | 13-0088  | EA  | 12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....<br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i> | 3,255.58<br>33.50<br>30.50<br>247.00  | 207.38               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....                     | 3,295.71                  | 227.40                  |
| For Primer Tap, Add   | 33.50                     |                         |
| For Vandal Proof Screws, Add  | 30.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 247.00                    |                         |
| 22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....   | 3,399.24                  | 169.74                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....   | 3,435.84                  | 188.07                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....   | 3,474.34                  | 207.38                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....   | 3,514.47                  | 227.40                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron<br>Grate..... | 2,101.10                  | 169.74                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron<br>Grate..... | 2,137.70                  | 188.07                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron<br>Grate..... | 2,176.20                  | 207.38                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron<br>Grate..... | 2,216.33                  | 227.40                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....    | 3,174.72                  | 169.74                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0099 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....    | 3,211.32                  | 188.07                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....    | 3,249.82                  | 207.38                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron<br>Grate.....    | 3,289.95                  | 227.40                  |
| For Vandal Proof Screws, Add  | 29.50                     |                         |
| For Primer Tap, Add   | 31.00                     |                         |
| For Aluminum Bucket, Add  | 77.50                     |                         |
| For Galvanized Cast Iron Parts, Add   | 273.75                    |                         |
| 22 13 19 13-0102 Other Drains (22 13 19 13)   |                           |                         |
| 22 13 19 13-0103 Shower Drains (22 13 19 13-0102)   |                           |                         |
| 22 13 19 13-0104 EA 4-1/4" Stainless Steel Shower Drain Strainer.....   | 56.76                     | 15.31                   |
| Note: Includes two 2-5/8" screws.   |                           |                         |
| 22 13 19 13-0105 EA 4-1/4" Brass Shower Drain Strainer.....   | 62.67                     | 15.31                   |
| Note: Includes two 2-5/8" screws.   |                           |                         |



|                 | MINOR          | CSI  | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |  |
|-----------------|----------------|--|-----|--|---|----------------------|--|
|                 | 22 13 19       | 13-0106  | EA  | 4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....<br>Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.   | 132.33  | 30.63                |  |
|                 | 22 13 19       | 13-0107  | EA  | 4" Chrome Finish, Threaded Brass Shower Drain And Gasket .....<br>Note: For 2" pipe. Kohler K-9132.  | 166.29  | 30.63                |  |
| <b>22 13 19</b> | <b>13-0108</b> | <b>Acid Resistant Floor Drains</b> <small>(22 13 19 13-0102)</small>   |     |  |   |                      |  |
|                 | 22 13 19       | 13-0109  | EA  | 9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top .....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i>   | 1,509.08<br>87.50<br>33.50<br>30.50                                     | 151.55               |  |
|                 | 22 13 19       | 13-0110  | EA  | 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top .....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i>   | 1,545.58<br>87.50<br>33.50<br>30.50                                     | 169.74               |  |
|                 | 22 13 19       | 13-0111  | EA  | 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top .....<br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Primer Tap, Add</i><br><i>For Vandal Proof Screws, Add</i>   | 1,581.77<br>87.50<br>33.50<br>30.50                                     | 187.93               |  |
| <b>22 13 19</b> | <b>13-0112</b> | <b>Rotary And Lever Drains</b> <small>(22 13 19 13-0102)</small>   |     |  |   |                      |  |
|                 | 22 13 19       | 13-0113  | EA  | Lever Drain, 1-1/2" Drain, 3" Sink Opening.....  | 314.47  | 102.21               |  |
|                 | 22 13 19       | 13-0114  | EA  | Lever Drain, 2" Drain, 3" Sink Opening.....  | 335.61  | 112.79               |  |
|                 | 22 13 19       | 13-0115  | EA  | Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening .....   | 314.47  | 102.21               |  |
|                 | 22 13 19       | 13-0116  | EA  | Lever Drain, 2" Drain, 3-1/2" Sink Opening .....   | 335.61  | 112.79               |  |
|                 | 22 13 19       | 13-0117  | EA  | Twist Drain, 1-1/2" Drain, 3" Sink Opening .....   | 314.47  | 102.21               |  |
|                 | 22 13 19       | 13-0118  | EA  | Twist Drain, 2" Drain, 3" Sink Opening .....   | 335.61  | 112.79               |  |
|                 | 22 13 19       | 13-0119  | EA  | Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening .....   | 314.47  | 102.21               |  |
|                 | 22 13 19       | 13-0120  | EA  | Twist Drain, 2" Drain, 3-1/2" Sink Opening .....   | 335.61  | 112.79               |  |
|                 | 22 13 19       | 13-0121  | EA  | Rotary Twist Drain, 1-1/2" To 2" Drain, 3-1/2" Sink Opening (Fisher 16100).....  | 420.51  | 112.79               |  |
| <b>22 13 19</b> | <b>13-0122</b> | <b>Floor Receptor</b> <small>(22 13 19 13)</small>   |     |  |   |                      |  |
| <b>22 13 19</b> | <b>13-0123</b> | <b>9" Diameter Round Shallow Receptor</b> <small>(22 13 19 13-0122)</small><br>Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top. |     |  |   |                      |  |
|                 | 22 13 19       | 13-0124  | EA  | 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection .....<br><i>For Flange With Seepage Holes, Add</i><br><i>For Flange With Seepage Holes And Clamp Collar, Add</i><br><i>For Trap Primer Connection, Add</i><br><i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i><br><i>For Vandal Proof Secured Grate, Add</i><br><i>For White Acid Resistant Bucket, Add</i><br><i>For Stainless Steel Liner For Bucket, Add</i> | 1,848.03<br>58.50<br>97.00<br>38.00<br>36.00<br>33.50<br>47.00<br>62.50 | 169.88               |  |
|                 | 22 13 19       | 13-0125  | EA  | 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection .....<br><i>For Flange With Seepage Holes, Add</i><br><i>For Flange With Seepage Holes And Clamp Collar, Add</i><br><i>For Trap Primer Connection, Add</i><br><i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i><br><i>For Vandal Proof Secured Grate, Add</i><br><i>For White Acid Resistant Bucket, Add</i><br><i>For Stainless Steel Liner For Bucket, Add</i> | 1,884.81<br>58.50<br>97.00<br>38.00<br>36.00<br>33.50<br>47.00<br>62.50 | 188.21               |  |
|                 | 22 13 19       | 13-0126  | EA  | 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection .....<br><i>For Flange With Seepage Holes, Add</i><br><i>For Flange With Seepage Holes And Clamp Collar, Add</i><br><i>For Trap Primer Connection, Add</i><br><i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i><br><i>For Vandal Proof Secured Grate, Add</i><br><i>For White Acid Resistant Bucket, Add</i><br><i>For Stainless Steel Liner For Bucket, Add</i> | 1,922.91<br>58.50<br>97.00<br>38.00<br>36.00<br>33.50<br>47.00<br>62.50 | 207.38               |  |
| <b>22 13 19</b> | <b>13-0127</b> | <b>Square Top Floor Receptors</b> <small>(22 13 19 13-0122)</small><br>Note: With acid resistant coating.  |     |  |   |                      |  |
|                 | 22 13 19       | 13-0128  | EA  | 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top .....<br><i>For Flange With Seepage Holes, Add</i><br><i>For Flange With Seepage Holes And Clamp Collar, Add</i><br><i>For Trap Primer Connection, Add</i><br><i>For Full Grate With 2" Square Center Opening, Add</i><br><i>For Vandal Proof Secured Grate, Add</i><br><i>For White Acid Resistant Bucket, Add</i><br><i>For Stainless Steel Liner For Bucket, Add</i>              | 2,168.35<br>37.50<br>69.00<br>39.50<br>36.00<br>15.50<br>88.00<br>97.00 | 151.55               |  |
|                 | 22 13 19       | 13-0129  | EA  | 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top .....<br><i>For Flange With Seepage Holes, Add</i><br><i>For Flange With Seepage Holes And Clamp Collar, Add</i><br><i>For Trap Primer Connection, Add</i><br><i>For Full Grate With 2" Square Center Opening, Add</i><br><i>For Vandal Proof Secured Grate, Add</i><br><i>For White Acid Resistant Bucket, Add</i><br><i>For Stainless Steel Liner For Bucket, Add</i>                  | 2,204.88<br>37.50<br>69.00<br>39.50<br>36.00<br>15.50<br>88.00<br>97.00 | 169.88               |  |



**22 Plumbing****22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....   | 2,240.91                  | 187.93                  |
| <i>For Flange With Seepage Holes, Add</i>  | 37.50                     |                         |
| <i>For Flange With Seepage Holes And Clamp Collar, Add</i>   | 69.00                     |                         |
| <i>For Trap Primer Connection, Add</i>   | 39.50                     |                         |
| <i>For Full Grate With 2" Square Center Opening, Add</i>   | 36.00                     |                         |
| <i>For Vandal Proof Secured Grate, Add</i>   | 15.50                     |                         |
| <i>For White Acid Resistant Bucket, Add</i>  | 88.00                     |                         |
| <i>For Stainless Steel Liner For Bucket, Add</i>   | 97.00                     |                         |
| 22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....   | 2,279.82                  | 207.38                  |
| <i>For Flange With Seepage Holes, Add</i>  | 37.50                     |                         |
| <i>For Flange With Seepage Holes And Clamp Collar, Add</i>   | 69.00                     |                         |
| <i>For Trap Primer Connection, Add</i>   | 39.50                     |                         |
| <i>For Full Grate With 2" Square Center Opening, Add</i>   | 36.00                     |                         |
| <i>For Vandal Proof Secured Grate, Add</i>   | 15.50                     |                         |
| <i>For White Acid Resistant Bucket, Add</i>  | 88.00                     |                         |
| <i>For Stainless Steel Liner For Bucket, Add</i>   | 97.00                     |                         |
| <b>22 13 19 13-0132 Floor Drain Accessories (22 13 19 13)</b>  |                           |                         |
| 22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....   | 119.10                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) .....   | 98.14                     | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) .....   | 106.52                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....   | 127.49                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....  | 114.91                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) .....   | 161.26                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) .....   | 178.13                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| 22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) .....   | 220.00                    | 17.62                   |
| Note: Prevents emission of sewer gases.  |                           |                         |
| <b>22 13 19 26 Grease Removal Devices (22 13 19)</b>   |                           |                         |
| 22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)   |                           |                         |
| Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting. |                           |                         |
| 22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)   |                           |                         |
| Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.   |                           |                         |
| 22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....  | 1,361.92                  | 105.74                  |
| Note: Josam 60102H.  |                           |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,369.87                  |                         |
| 22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 1,586.22                  | 237.91                  |
| Note: Josam 60103H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 418.77                    |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,451.35                  |                         |
| 22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 2,231.34                  | 264.34                  |
| Note: Josam 60104H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 436.39                    |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,586.26                  |                         |
| 22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 2,687.42                  | 290.77                  |
| Note: Josam 60105H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 454.01                    |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,715.74                  |                         |
| 22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 3,006.59                  | 317.21                  |
| Note: Josam 60106H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 502.03                    |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,790.49                  |                         |
| 22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 3,686.97                  | 370.07                  |
| Note: Josam 60107H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 548.48                    |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,975.84                  |                         |
| 22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....  | 4,793.23                  | 422.94                  |
| Note: Josam 60108H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 624.69                    |                         |
| <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 2,114.15                  |                         |
| 22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....  | 9,326.26                  | 475.81                  |
| Note: Josam 60109H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 861.21                    |                         |
| 22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 10,524.27                 | 559.45                  |
| Note: Josam 60110H.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 980.98                    |                         |
| 22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 13,028.17                 | 895.13                  |
| Note: Josam 60213A.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 1,364.76                  |                         |
| 22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....   | 18,660.44                 | 1,118.92                |
| Note: Josam 60214A.  |                           |                         |
| <i>For Flange And Clamp Device, Add</i>  | 1,643.22                  |                         |



|                                   |              |           |
|-----------------------------------|--------------|-----------|
| <b>Plumbing</b>                   | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>            | <b>22 10</b> |           |
| <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 22 13 19 26-0014        | EA  |     | 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60215A.  | 21,775.71              | 1,342.70             |
|                         |     |     | <i>For Flange And Clamp Device, Add</i>  | 2,105.38               |                      |
| 22 13 19 26-0015        | EA  |     | 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60216A.  | 28,256.87              | 1,566.48             |
|                         |     |     | <i>For Flange And Clamp Device, Add</i>  | 2,492.32               |                      |
| 22 13 19 26-0016        | EA  |     | 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60217A.  | 36,507.56              | 1,790.27             |
|                         |     |     | <i>For Flange And Clamp Device, Add</i>  | 2,914.79               |                      |
| <b>22 13 19 26-0017</b> |     |     | <b>Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26-0001)<br>Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.  |                        |                      |
| 22 13 19 26-0018        | EA  |     | 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60115A.  | 3,834.74               | 290.77               |
| 22 13 19 26-0019        | EA  |     | 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60117A.  | 4,932.07               | 370.07               |
| 22 13 19 26-0020        | EA  |     | 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....<br>Note: Smith 8150.  | 8,084.54               | 422.94               |
| <b>22 13 19 26-0021</b> |     |     | <b>Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26)<br>Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting. |                        |                      |
| <b>22 13 19 26-0022</b> |     |     | <b>Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26-0021)<br>Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.  |                        |                      |
| 22 13 19 26-0023        | EA  |     | 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60102-SA.  | 3,358.15               | 105.74               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,369.87               |                      |
| 22 13 19 26-0024        | EA  |     | 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60103-SA.   | 3,946.05               | 237.91               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,451.35               |                      |
| 22 13 19 26-0025        | EA  |     | 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60104-SA.   | 4,218.87               | 264.34               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,586.26               |                      |
| 22 13 19 26-0026        | EA  |     | 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60105-SA.   | 5,139.96               | 290.77               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,715.74               |                      |
| 22 13 19 26-0027        | EA  |     | 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60106-SA.   | 6,187.08               | 317.21               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,790.49               |                      |
| 22 13 19 26-0028        | EA  |     | 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60107-SA.   | 6,408.96               | 370.07               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 1,975.84               |                      |
| 22 13 19 26-0029        | EA  |     | 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60108-SA.  | 7,316.04               | 422.94               |
|                         |     |     | <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>  | 2,114.15               |                      |
| <b>22 13 19 26-0030</b> |     |     | <b>Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26-0021)<br>Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.  |                        |                      |
| 22 13 19 26-0031        | EA  |     | 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor .....<br>Note: Josam 60115A-SA.  | 8,576.13               | 370.07               |
| <b>22 13 19 26-0032</b> |     |     | <b>Automatic Cleaning Stainless Steel Grease Interceptor</b> (22 13 19 26)<br>Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).  |                        |                      |
| 22 13 19 26-0033        | EA  |     | 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor .....<br>Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).  | 7,366.03               | 290.77               |
| 22 13 19 26-0034        | EA  |     | 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor .....<br>Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).  | 8,550.71               | 317.21               |
| 22 13 19 26-0035        | EA  |     | 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35) .....   | 7,356.57               | 370.07               |
| <b>22 13 19 26-0036</b> |     |     | <b>Precast Concrete Grease Interceptor</b> (22 13 19 26)<br>Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.  |                        |                      |
| 22 13 19 26-0037        | EA  |     | 1,000 Gallon Pre-Cast Grease Interceptor .....   | 7,115.40               | 487.92               |
| 22 13 19 26-0038        | EA  |     | 1,250 Gallon Pre-Cast Grease Interceptor .....   | 8,146.50               | 487.92               |
| 22 13 19 26-0039        | EA  |     | 1,500 Gallon Pre-Cast Grease Interceptor .....   | 9,245.83               | 557.80               |
| 22 13 19 26-0040        | EA  |     | 2,000 Gallon Pre-Cast Grease Interceptor .....   | 10,509.47              | 787.76               |
| 22 13 19 26-0041        | EA  |     | 2,500 Gallon Pre-Cast Grease Interceptor .....   | 11,819.40              | 1,059.87             |
| 22 13 19 26-0042        | EA  |     | 4,000 Gallon Pre-Cast Grease Interceptor .....   | 17,743.15              | 1,394.43             |
| 22 13 19 26-0043        | EA  |     | 5,000 Gallon Pre-Cast Grease Interceptor .....   | 22,740.29              | 2,286.65             |
| <b>22 13 19 26-0044</b> |     |     | <b>Coated Steel Manual Oil Interceptor</b> (22 13 19 26)<br>Note: Includes internal air relief, and flow control fitting.  |                        |                      |
| 22 13 19 26-0045        | EA  |     | 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off .....   | 10,284.02              | 402.74               |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....  | 13,961.02                 | 478.54                  |
| 22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....  | 16,892.62                 | 588.79                  |
| 22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....  | 18,345.33                 | 637.79                  |
| 22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....  | 22,144.25                 | 695.99                  |
| 22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....  | 29,443.70                 | 765.66                  |
| 22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....  | 50,104.34                 | 881.13                  |
| 22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 54,580.34                 | 1,084.14                |
| 22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 67,271.53                 | 1,175.08                |
| 22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 94,544.09                 | 1,409.81                |
| 22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 109,246.79                | 1,515.54                |
| 22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 137,833.84                | 1,807.37                |
| 22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 167,602.53                | 1,481.00                |
| 22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....   | 198,530.36                | 1,762.26                |
| <b>22 13 19 33 Backwater Valves (22 13 19)</b>   |                           |                         |
| <b>22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)</b>   |                           |                         |
| 22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve .....   | 435.69                    | 40.46                   |
| 22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve .....   | 451.19                    | 50.89                   |
| 22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve .....   | 648.15                    | 67.68                   |
| 22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve .....   | 1,693.44                  | 87.32                   |
| 22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve .....   | 2,073.91                  | 114.92                  |
| 22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve .....  | 5,928.08                  | 141.78                  |
| 22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve .....  | 6,724.31                  | 183.88                  |
| <b>22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)</b>   |                           |                         |
| Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.                                      |                           |                         |
| 22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....                                      | 1,091.14                  | 96.47                   |
| 22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....                                      | 1,644.61                  | 117.02                  |
| 22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....                                      | 2,038.37                  | 150.85                  |
| 22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....                                      | 2,810.65                  | 158.64                  |
| 22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....                                      | 3,879.12                  | 188.00                  |
| <b>22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)</b>  |                           |                         |
| Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.                                   |                           |                         |
| 22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....   | 2,871.50                  | 152.69                  |
| 22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....   | 2,947.07                  | 203.02                  |
| 22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....   | 4,243.84                  | 234.96                  |
| 22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....   | 4,284.69                  | 261.94                  |
| <b>22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)</b>  |                           |                         |
| Note: Oatey.   |                           |                         |
| 22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....   | 158.25                    | 50.89                   |
| 22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....   | 191.87                    | 67.68                   |
| 22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....   | 516.40                    | 87.32                   |
| <b>22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)</b>   |                           |                         |
| 22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....                                   | 366.91                    | 101.78                  |
| Note: Includes valve body, flapper assembly and collar.  |                           |                         |
| 22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....                                   | 488.57                    | 135.34                  |
| Note: Includes valve body, flapper assembly and collar.  |                           |                         |
| 22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....                                   | 808.69                    | 174.63                  |
| Note: Includes valve body, flapper assembly and collar.  |                           |                         |
| <b>22 13 19 36 Air-Admittance Valves (22 13 19)</b>  |                           |                         |
| <b>22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)</b>                    |                           |                         |
| 22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent..... | 314.96                    | 19.74                   |
| 22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....         | 376.90                    | 19.74                   |
| <b>22 13 23 Sanitary Waste Interceptors (22 13)</b>  |                           |                         |
| <b>22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)</b>   |                           |                         |
| 22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180) .....           | 1,325.71                  | 199.63                  |
| Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.                           |                           |                         |
| 22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184) .....        | 1,327.31                  | 199.63                  |
| Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.                           |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....       | 1,846.84                  | 199.63                  |
| Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.  |                           |                         |
| 22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-AR10)..... | 1,846.84                  | 199.63                  |
| Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.  |                           |                         |
| 22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030) .....                  | 1,964.46                  | 199.63                  |
| Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.  |                           |                         |
| <b>22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)</b>   |                           |                         |
| 22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....   | 359.17                    | 68.29                   |
| For Stainless Steel Bucket, Add 175.00  |                           |                         |
| 22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....   | 367.90                    | 72.74                   |
| For Stainless Steel Bucket, Add 175.00  |                           |                         |
| <b>22 13 23 00-0010 Sediment Strainers (22 13 23)</b>   |                           |                         |
| 22 13 23 00-0011 EA 2" Strainer, Pump Suction Side .....  | 211.54                    | 93.19                   |
| <b>22 13 29 Sanitary Sewerage Pumps (22 13)</b>   |                           |                         |
| Note: Includes extra set of gaskets, bearings and seals.  |                           |                         |
| <b>22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)</b>  |                           |                         |
| <b>22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) (22 13 29 13)</b>  |                           |                         |
| Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.                             |                           |                         |
| <b>22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)</b>  |                           |                         |
| 22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....   | 8,271.70                  | 1,691.21                |
| 22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....  | 8,572.22                  | 1,691.21                |
| 22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....  | 8,872.74                  | 1,691.21                |
| 22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....  | 9,159.39                  | 1,691.21                |
| <b>22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)</b>  |                           |                         |
| 22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....   | 9,103.91                  | 1,691.21                |
| 22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....  | 9,219.49                  | 1,691.21                |
| 22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....  | 9,300.40                  | 1,691.21                |
| 22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....  | 9,855.21                  | 1,691.21                |
| 22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....  | 10,398.46                 | 1,691.21                |
| 22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....  | 11,230.67                 | 1,691.21                |
| 22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....   | 12,062.88                 | 1,691.21                |
| 22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....   | 14,013.95                 | 2,250.62                |
| <b>22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)</b>  |                           |                         |
| 22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....  | 9,683.06                  | 1,691.21                |
| 22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....  | 9,683.06                  | 1,691.21                |
| 22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....  | 9,883.32                  | 1,691.21                |
| 22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....  | 11,437.15                 | 1,691.21                |
| 22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....   | 11,709.72                 | 1,691.21                |
| 22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....   | 14,109.83                 | 2,250.62                |
| 22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....   | 14,803.34                 | 2,250.62                |
| <b>22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)</b>   |                           |                         |
| 22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....  | 544.22                    |                         |
| 22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....  | 653.44                    |                         |
| 22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....  | 730.37                    |                         |
| 22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....  | 743.67                    |                         |
| 22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....  | 834.84                    |                         |
| <b>22 13 29 13-0030 Float Switches (22 13 29 13-0001)</b>   |                           |                         |
| Note: Copper coated floats, brass rods and stops and switch brackets.   |                           |                         |
| 22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps .....  | 489.13                    |                         |
| 22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....   | 513.82                    |                         |
| 22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....   | 525.22                    |                         |
| <b>22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)</b>  |                           |                         |
| 22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....   | 917.25                    | 56.39                   |
| 22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....   | 1,015.59                  | 63.44                   |
| 22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....   | 1,408.45                  | 84.59                   |



| MINOR    | CSI     | UOM | DESCRIPTION                                 | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 22 13 29 | 13-0038 | EA  | 40" Steel Sump Covers, Square Or Round..... | 2,038.48               | 98.69                |
| 22 13 29 | 13-0039 | EA  | 42" Steel Sump Covers, Square Or Round..... | 2,184.52               | 102.21               |
| 22 13 29 | 13-0040 | EA  | 48" Steel Sump Covers, Square Or Round..... | 2,335.17               | 105.74               |
| 22 13 29 | 13-0041 | EA  | 54" Steel Sump Covers, Square Or Round..... | 2,972.93               | 126.88               |
| 22 13 29 | 13-0042 | EA  | 60" Steel Sump Covers, Square Or Round..... | 4,020.05               | 140.98               |
| 22 13 29 | 13-0043 | EA  | 72" Steel Sump Covers, Square Or Round..... | 5,097.82               | 176.23               |
| 22 13 29 | 13-0044 | EA  | 84" Steel Sump Covers, Square Or Round..... | 6,473.43               | 193.84               |

### 22 13 29 16 Submersible Sewerage Pumps (22 13 29)

|          |         |    |  |          |        |
|----------|---------|----|--|----------|--------|
| 22 13 29 | 16-0001 |    | Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)  |          |        |
| 22 13 29 | 16-0002 |    | Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)   |          |        |
|          |         |    | Note: Includes 25' cord.   |          |        |
| 22 13 29 | 16-0003 | EA | 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....           | 1,610.27 | 102.60 |
| 22 13 29 | 16-0004 | EA | 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....        | 1,713.11 | 102.60 |
| 22 13 29 | 16-0005 | EA | 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....           | 1,681.47 | 102.60 |
| 22 13 29 | 16-0006 | EA | 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....        | 1,833.09 | 102.60 |
| 22 13 29 | 16-0007 | EA | 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....           | 1,833.09 | 102.60 |
| 22 13 29 | 16-0008 | EA | 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....             | 1,949.21 | 128.24 |
| 22 13 29 | 16-0009 | EA | 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....          | 2,083.69 | 128.24 |
| 22 13 29 | 16-0010 | EA | 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....             | 2,100.84 | 128.24 |
| 22 13 29 | 16-0011 |    | Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)  |          |        |
|          |         |    | Note: Includes 20' cord.   |          |        |
| 22 13 29 | 16-0012 | EA | 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....     | 1,639.27 | 102.60 |
| 22 13 29 | 16-0013 | EA | 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....  | 1,786.95 | 102.60 |
| 22 13 29 | 16-0014 | EA | 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....     | 1,717.07 | 102.60 |
| 22 13 29 | 16-0015 | EA | 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....   | 1,859.46 | 102.60 |
| 22 13 29 | 16-0016 | EA | 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....     | 1,987.36 | 102.60 |
| 22 13 29 | 16-0017 | EA | 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....       | 1,867.46 | 128.24 |
| 22 13 29 | 16-0018 | EA | 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....     | 2,020.41 | 128.24 |
| 22 13 29 | 16-0019 | EA | 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....       | 2,019.09 | 128.24 |
| 22 13 29 | 16-0020 | EA | 1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....    | 2,343.71 | 206.73 |
| 22 13 29 | 16-0021 | EA | 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller..... | 2,472.92 | 206.73 |
| 22 13 29 | 16-0022 | EA | 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller..... | 2,495.34 | 206.73 |
| 22 13 29 | 16-0023 | EA | 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....        | 2,527.18 | 252.67 |
| 22 13 29 | 16-0024 | EA | 2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....     | 2,674.85 | 252.67 |
| 22 13 29 | 16-0025 | EA | 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....        | 2,678.80 | 252.67 |
| 22 13 29 | 16-0026 |    | Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)  |          |        |
|          |         |    | Note: Includes 20' cord.   |          |        |
| 22 13 29 | 16-0027 | EA | 1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....      | 1,934.62 | 102.60 |
| 22 13 29 | 16-0028 | EA | 1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....      | 2,185.13 | 102.60 |
| 22 13 29 | 16-0029 | EA | 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller .....               | 2,148.30 | 128.24 |
| 22 13 29 | 16-0030 | EA | 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller .....               | 2,299.93 | 128.24 |
| 22 13 29 | 16-0031 | EA | 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....    | 2,645.65 | 206.73 |
| 22 13 29 | 16-0032 | EA | 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....    | 2,797.27 | 206.73 |
| 22 13 29 | 16-0033 | EA | 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....        | 2,830.43 | 252.67 |



|                                   |              |           |
|-----------------------------------|--------------|-----------|
| <b>Plumbing</b>                   | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>            | <b>22 10</b> |           |
| <b>Facility Sanitary Sewerage</b> | <b>22 13</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....  | 2,982.06                  | 252.67                  |
| <b>22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)</b><br>Note: Includes 25' of cord with pump.  |                           |                         |
| 22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....   | 4,652.60                  | 128.24                  |
| 22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....   | 4,942.31                  | 187.87                  |
| 22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....   | 5,301.29                  | 229.62                  |
| 22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....   | 5,553.96                  | 278.33                  |
| 22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....   | 6,235.50                  | 327.04                  |
| 22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....   | 6,967.23                  | 375.75                  |
| <b>22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16)</b><br>Note: Includes 25' of cord with pump.   |                           |                         |
| 22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 7,403.08                  | 459.53                  |
| 22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 6,843.71                  | 459.53                  |
| 22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 6,843.71                  | 459.53                  |
| 22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 7,816.64                  | 612.71                  |
| 22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 7,257.27                  | 612.71                  |
| 22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 7,257.27                  | 612.71                  |
| 22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 8,345.58                  | 765.89                  |
| 22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 7,786.21                  | 765.89                  |
| 22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 7,786.21                  | 765.89                  |
| 22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 8,766.15                  | 919.07                  |
| 22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 8,206.78                  | 919.07                  |
| 22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 8,206.78                  | 919.07                  |
| 22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 9,707.61                  | 1,072.25                |
| 22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 9,148.24                  | 1,072.25                |
| 22 13 29 16-0057 EA 5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 9,148.24                  | 1,072.25                |
| 22 13 29 16-0058 EA 7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 10,102.54                 | 1,225.42                |
| 22 13 29 16-0059 EA 7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....   | 10,102.54                 | 1,225.42                |
| <b>22 13 29 16-0060 Submersible Sewage Pump Accessories (22 13 29 16)</b>  |                           |                         |
| 22 13 29 16-0061 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....<br>Note: Includes alarm horn, warning light and alarm float switch.              | 801.39                    | 115.36                  |
| 22 13 29 16-0062 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....<br>Note: Includes alarm horn, warning light, and alarm float switch.             | 826.59                    | 115.36                  |
| 22 13 29 16-0063 EA Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....<br>Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches. | 1,607.69                  | 153.82                  |
| 22 13 29 16-0064 EA Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....<br>Note: Includes alarm horn and warning light. Control float switches not included.                         | 2,252.68                  | 153.82                  |
| 22 13 29 16-0065 EA Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....<br>Note: Includes alarm horn and warning light. Control float switches not included.          | 4,584.10                  | 153.82                  |
| 22 13 29 16-0066 EA Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....<br>Note: Includes alarm horn and warning light. Control float switches not included.  | 4,793.08                  | 153.82                  |
| 22 13 29 16-0067 EA Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....<br>Note: Includes alarm horn and warning light. Control float switches not included.           | 7,638.31                  | 192.28                  |
| 22 13 29 16-0068 EA Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....<br>Note: Includes alarm horn and warning light. Control float switches not included.   | 6,449.42                  | 192.28                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 13 29 16-0069 EA Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps ..... 1,789.16          | 1,789.16                  | 192.28                  |
| Note: Includes alarm horn, warning light, and three 20' float switches.   |                           |                         |
| 22 13 29 16-0070 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps ..... 1,965.52         | 1,965.52                  | 192.28                  |
| Note: Includes alarm horn, warning light, and three 20' float switches.   |                           |                         |
| 22 13 29 16-0071 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps ..... 1,888.68        | 1,888.68                  | 192.28                  |
| Note: Includes alarm horn, warning light, and three 20' float switches.   |                           |                         |
| 22 13 29 16-0072 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps ..... 2,047.62 | 2,047.62                  | 192.28                  |
| Note: Includes alarm horn, warning light, and three 20' float switches.   |                           |                         |
| 22 13 29 16-0073 EA Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps ..... 3,467.26       | 3,467.26                  | 192.28                  |
| Note: Includes alarm horn and warning light. Float switches not included..  |                           |                         |
| 22 13 29 16-0074 EA Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure ..... 658.98  | 658.98                    | 76.91                   |
| Note: Includes alarm horn, warning light and 15' tethered float.  |                           |                         |
| 22 13 29 16-0075 EA Variable Level (Clamp Type) Float Switch With 15' Cord ..... 132.34   | 132.34                    | 38.46                   |
| Note: Not for use with Intrinsically Safe Control Systems.  |                           |                         |
| 22 13 29 16-0076 EA Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only ..... 147.20   | 147.20                    | 38.46                   |
| 22 13 29 16-0077 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord ..... 166.20   | 166.20                    | 38.46                   |
| Note: Not for use with Intrinsically Safe Control Systems.  |                           |                         |
| 22 13 29 16-0078 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only ..... 163.15   | 163.15                    | 38.46                   |
| 22 13 29 16-0079 EA Float Switch Tree With (3) 15' Floats ..... 474.01  | 474.01                    | 38.46                   |
| Note: Not for use with Intrinsically Safe Control Systems.  |                           |                         |
| 22 13 29 16-0080 EA Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only ..... 483.49  | 483.49                    | 38.46                   |
| 22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords ..... 526.43  | 526.43                    | 38.46                   |
| Note: Not for use with Intrinsically Safe Control Systems.  |                           |                         |
| 22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only ..... 548.35  | 548.35                    | 38.46                   |
| 22 13 29 16-0083 EA Float Switch Tree ..... 257.97  | 257.97                    | 38.46                   |
| Note: Tree only.  |                           |                         |
| 22 13 29 16-0084 EA Adjustable Weight For Float Switch ..... 71.67  | 71.67                     | 19.22                   |
| 22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge ..... 1,336.51   | 1,336.51                  | 115.36                  |
| Note: Lifting equipment not included.   |                           |                         |
| 22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge ..... 2,087.40   | 2,087.40                  | 153.82                  |
| Note: Lifting equipment not included.   |                           |                         |
| 22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge ..... 2,723.90   | 2,723.90                  | 192.28                  |
| Note: Lifting equipment not included.   |                           |                         |
| 22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge ..... 2,635.44   | 2,635.44                  | 115.36                  |
| 22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge ..... 3,703.43   | 3,703.43                  | 115.36                  |
| 22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System ..... 397.58   | 397.58                    | 76.91                   |
| 22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems ..... 688.99  | 688.99                    | 96.14                   |
| 22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems ..... 695.98  | 695.98                    | 115.36                  |
| 22 13 29 16-0093 EA 12" Stainless Steel Lifting Cable ..... 196.17  | 196.17                    | 38.46                   |
| 22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge ..... 377.04   | 377.04                    | 38.46                   |
| Note: Used for shallow systems where guide rails are not necessary.   |                           |                         |

### 22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)

22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)

|   |        |  |
|---|--------|--|
| 22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 156.91 | 156.91 |  |
| 22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 199.22 | 199.22 |  |
| 22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 428.42 | 428.42 |  |
| 22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 594.16 | 594.16 |  |
| 22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 759.89 | 759.89 |  |
| 22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 881.54 | 881.54 |  |

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

|  |          |  |
|--|----------|--|
| 22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub ..... 397.89   | 397.89   |  |
| 22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub ..... 794.89   | 794.89   |  |
| 22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub ..... 1,417.14 | 1,417.14 |  |
| 22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub ..... 1,902.34 | 1,902.34 |  |
| 22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub ..... 2,190.25 | 2,190.25 |  |
| 22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub ..... 2,313.35 | 2,313.35 |  |
| 22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub ..... 2,715.01 | 2,715.01 |  |
| 22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub ..... 3,151.55 | 3,151.55 |  |

### 22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)

See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)



|  |                                |              |
|--|--------------------------------|--------------|
|  | <b>Plumbing</b>                | <b>22</b>    |
|  | <b>Plumbing Piping</b>         | <b>22 10</b> |
|  | <b>Facility Storm Drainage</b> | <b>22 14</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome</b> <small>(22 14 26 13-0001)</small>             |                           |                         |
| <i>Note: Dome free area is 124 square inches.</i>   |                           |                         |
| 22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome .....  | 1,050.79                  | 235.01                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome .....  | 1,168.27                  | 281.96                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome .....  | 1,285.76                  | 352.45                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome .....  | 1,711.49                  | 422.94                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome .....  | 1,770.23                  | 469.89                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome .....  | 2,064.85                  | 493.44                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome ..... | 2,722.82                  | 511.05                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Bronze Dome, Add</i>   | 448.80                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| <b>22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint</b> <small>(22 14 26 13-0001)</small>                      |                           |                         |
| <i>Note: With polypropylene dome. Dome free area is 124 square inches.</i>  |                           |                         |
| 22 14 26 13-0011 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome .....           | 1,594.12                  | 235.01                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0012 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome .....           | 1,749.56                  | 281.96                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0013 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome .....           | 1,940.96                  | 352.45                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0014 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome .....           | 2,664.32                  | 422.94                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| 22 14 26 13-0015 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome .....           | 2,860.89                  | 469.89                  |
| <i>For Galvanized Iron Parts, Add</i>   | 518.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |
| <b>22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top</b> <small>(22 14 26 13-0001)</small>            |                           |                         |
| 22 14 26 13-0017 EA 14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top .....                             | 2,128.66                  | 235.01                  |
| <i>For Galvanized Iron Parts, Add</i>   | 197.00                    |                         |
| <i>For Deck Clamp Assembly, Add</i>   | 130.00                    |                         |
| <i>For Drain Receiver, Add</i>  | 147.00                    |                         |
| <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 357.00                    |                         |



**22 Plumbing**

**22 10 Plumbing Piping**

**22 14 Facility Storm Drainage**



| MINOR   | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                           | DEMOLITION UNIT COST |
|---|---------|-----|---|--|----------------------|
| 22 14 26  | 13-0018 | EA  | 14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> | 2,246.14<br>197.00<br>130.00<br>147.00<br>357.00 | 281.96               |
| 22 14 26  | 13-0019 | EA  | 14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> | 2,363.63<br>197.00<br>130.00<br>147.00<br>357.00 | 352.45               |
| 22 14 26  | 13-0020 | EA  | 14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> | 2,773.39<br>197.00<br>130.00<br>147.00<br>357.00 | 422.94               |
| 22 14 26  | 13-0021 | EA  | 14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> | 2,832.13<br>197.00<br>130.00<br>147.00<br>357.00 | 469.89               |
| <b>22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate (22 14 26 13-0001)</b> |         |     |   |  |                      |
| 22 14 26  | 13-0023 | EA  | Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate<br><i>For Vandal Proof Grate, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>   | 1,349.67<br>33.00<br>128.00                      | 94.03                |
| 22 14 26  | 13-0024 | EA  | Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate<br><i>For Vandal Proof Grate, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i>   | 1,396.67<br>33.00<br>128.00                      | 117.44               |
| 22 14 26  | 13-0025 | EA  | Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate<br><i>For Vandal Proof Grate, Add</i><br><i>For Galvanized Cast Iron Parts, Add</i><br><i>For Galvanized Iron Parts, Add</i>  | 1,418.03<br>33.00<br>128.00<br>258.00            | 128.15               |
| 22 14 26  | 13-0026 | EA  | Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate<br><i>For Vandal Proof Grate, Add</i><br><i>For Galvanized Iron Parts, Add</i>  | 1,990.44<br>33.00<br>258.00                      | 169.88               |
| 22 14 26  | 13-0027 | EA  | Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate<br><i>For Vandal Proof Grate, Add</i><br><i>For Galvanized Iron Parts, Add</i>  | 2,065.38<br>33.00<br>258.00                      | 207.38               |
| <b>22 14 26 13-0028 Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001)</b>     |         |     |   |  |                      |
| Note: Grate free area is 27 square inches.  |         |     |   |  |                      |
| 22 14 26  | 13-0029 | EA  | 9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>                                  | 1,142.61<br>144.00<br>80.40<br>93.60             | 235.01               |
| 22 14 26  | 13-0030 | EA  | 9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>                                  | 1,260.09<br>144.00<br>80.40<br>93.60             | 281.96               |
| 22 14 26  | 13-0031 | EA  | 9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>                                  | 1,377.58<br>144.00<br>80.40<br>93.60             | 352.45               |
| <b>22 14 26 13-0032 Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)</b>    |         |     |   |  |                      |
| 22 14 26  | 13-0033 | EA  | 15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>    | 1,222.45<br>518.00<br>130.00<br>147.00<br>357.00 | 235.01               |
| 22 14 26  | 13-0034 | EA  | 15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>    | 1,339.93<br>518.00<br>130.00<br>147.00<br>357.00 | 281.96               |
| 22 14 26  | 13-0035 | EA  | 15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>    | 1,457.42<br>518.00<br>130.00<br>147.00<br>357.00 | 352.45               |
| 22 14 26  | 13-0036 | EA  | 15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>    | 1,883.15<br>518.00<br>130.00<br>147.00<br>357.00 | 422.94               |
| 22 14 26  | 13-0037 | EA  | 15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>    | 1,941.89<br>518.00<br>130.00<br>147.00<br>357.00 | 469.89               |



|  |                                |              |
|--|--------------------------------|--------------|
|  | <b>Plumbing</b>                | <b>22</b>    |
|  | <b>Plumbing Piping</b>         | <b>22 10</b> |
|  | <b>Facility Storm Drainage</b> | <b>22 14</b> |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                           | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|--|----------------------|
| 22 14 26 13-0038        | EA  |     | 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome .....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>  | 2,236.51<br>518.00<br>130.00<br>147.00<br>357.00 | 493.44               |
| 22 14 26 13-0039        | EA  |     | 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome .....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> | 2,894.48<br>518.00<br>130.00<br>147.00<br>357.00 | 511.05               |
| <b>22 14 26 13-0040</b> |     |     | <b>Aluminum Roof Drains (22 14 26 13)</b>   |  |                      |
| <b>22 14 26 13-0041</b> |     |     | <b>Aluminum Dome Roof Drains (22 14 26 13-0040)</b>   |  |                      |
| 22 14 26 13-0042        | EA  |     | 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>              | 1,252.39<br>518.00<br>130.00<br>147.00<br>357.00 | 235.01               |
| 22 14 26 13-0043        | EA  |     | 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>              | 1,369.87<br>518.00<br>130.00<br>147.00<br>357.00 | 281.96               |
| 22 14 26 13-0044        | EA  |     | 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>              | 1,487.36<br>518.00<br>130.00<br>147.00<br>357.00 | 352.45               |
| 22 14 26 13-0045        | EA  |     | 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>              | 1,971.83<br>518.00<br>130.00<br>147.00<br>357.00 | 469.46               |
| 22 14 26 13-0046        | EA  |     | 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>              | 2,266.73<br>518.00<br>130.00<br>147.00<br>357.00 | 493.44               |
| 22 14 26 13-0047        | EA  |     | 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome .....<br><i>For Galvanized Iron Parts, Add</i><br><i>For Deck Clamp Assembly, Add</i><br><i>For Drain Receiver, Add</i><br><i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>            | 2,924.43<br>518.00<br>130.00<br>147.00<br>357.00 | 511.05               |
| <b>22 14 26 13-0048</b> |     |     | <b>Retrofit Roof Drains (22 14 26 13)</b>   |  |                      |
| <b>22 14 26 13-0049</b> |     |     | <b>Retrofit Copolymer Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)</b>   |  |                      |
| 22 14 26 13-0050        | EA  |     | Copolymer Retrofit 3" Roof Drains, With Copolymer Dome.....   | 975.92   | 281.96               |
| 22 14 26 13-0051        | EA  |     | Copolymer Retrofit 4" Roof Drains, With Copolymer Dome.....   | 1,108.36   | 352.45               |
| 22 14 26 13-0052        | EA  |     | Copolymer Retrofit 5" Roof Drains, With Copolymer Dome.....   | 1,344.35   | 422.94               |
| 22 14 26 13-0053        | EA  |     | Copolymer Retrofit 6" Roof Drains, With Copolymer Dome.....   | 1,462.86   | 469.46               |
| <b>22 14 26 13-0054</b> |     |     | <b>Retrofit Copolymer Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)</b>   |  |                      |
| 22 14 26 13-0055        | EA  |     | Copolymer Retrofit Drain, 3", With Cast Aluminum Dome.....  | 1,110.41   | 281.96               |
| 22 14 26 13-0056        | EA  |     | Copolymer Retrofit Drain, 4", With Cast Aluminum Dome.....  | 1,236.86   | 352.45               |
| 22 14 26 13-0057        | EA  |     | Copolymer Retrofit Drain, 5", With Cast Aluminum Dome.....  | 1,481.82   | 422.94               |
| 22 14 26 13-0058        | EA  |     | Copolymer Retrofit Drain, 6", With Cast Aluminum Dome.....  | 1,558.49   | 469.46               |
| <b>22 14 26 13-0059</b> |     |     | <b>Retrofit Roof Aluminum Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)</b>  |  |                      |
| 22 14 26 13-0060        | EA  |     | Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome .....<br><i>For Copolymer Strainer Dome, Deduct</i>   | 981.90<br>-24.00                                 | 281.96               |
| 22 14 26 13-0061        | EA  |     | Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome .....<br><i>For Copolymer Strainer Dome, Deduct</i>   | 1,114.33<br>-24.00                               | 352.45               |
| 22 14 26 13-0062        | EA  |     | Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome .....<br><i>For Copolymer Strainer Dome, Deduct</i>   | 1,350.32<br>-24.00                               | 422.94               |
| 22 14 26 13-0063        | EA  |     | Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome .....<br><i>For Copolymer Strainer Dome, Deduct</i>   | 1,421.02<br>-24.00                               | 469.46               |
| <b>22 14 26 13-0064</b> |     |     | <b>Bronze Downspout Nozzles (22 14 26 13)</b>   |  |                      |
| 22 14 26 13-0065        | EA  |     | 2" Outlet, Bronze Roof Drain Downspout Nozzle.....  | 574.29   | 140.98               |
| 22 14 26 13-0066        | EA  |     | 3" Outlet, Bronze Roof Drain Downspout Nozzle.....  | 574.29   | 140.98               |
| 22 14 26 13-0067        | EA  |     | 4" Outlet, Bronze Roof Drain Downspout Nozzle.....  | 574.29   | 140.98               |
| 22 14 26 13-0068        | EA  |     | 5" Outlet, Bronze Roof Drain Downspout Nozzle.....  | 878.78   | 176.23               |
| 22 14 26 13-0069        | EA  |     | 6" Outlet, Bronze Roof Drain Downspout Nozzle.....  | 878.78   | 176.23               |
| 22 14 26 13-0070        | EA  |     | 8" Outlet, Bronze Roof Drain Downspout Nozzle.....  | 1,123.82   | 176.23               |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**22 14 26 16 Facility Area Drains (22 14 26)**

| 22 14 26 16-0001 | Area Drain (22 14 26 16)  |          |        |  |
|------------------|---|----------|--------|--|
| 22 14 26 16-0002 | EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer   | 3,399.24 | 169.74 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0003 | EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer   | 3,435.84 | 188.07 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0004 | EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer   | 3,474.34 | 207.38 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0005 | EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer   | 3,514.47 | 227.40 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0006 | EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer | 2,101.10 | 169.74 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0007 | EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer | 2,137.70 | 188.07 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0008 | EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer | 2,176.20 | 207.38 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0009 | EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer | 2,216.33 | 227.40 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0010 | EA 12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer    | 3,174.72 | 169.74 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0011 | EA 12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer    | 3,211.32 | 188.07 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0012 | EA 12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer    | 3,249.82 | 207.38 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0013 | EA 12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer    | 3,289.95 | 227.40 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Vandal Proof Screws, Add</i>   | 29.50    |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 152.25   |        |  |
| 22 14 26 16-0014 | EA 16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer   | 6,830.23 | 169.74 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 258.50   |        |  |
| 22 14 26 16-0015 | EA 16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer   | 6,866.83 | 188.07 |  |
|                  | <i>For Ductile Iron Grate, Add</i>  | 123.50   |        |  |
|                  | <i>For Primer Tap, Add</i>  | 36.00    |        |  |
|                  | <i>For Galvanized Cast Iron Parts, Add</i>  | 258.50   |        |  |



|  |                                |              |
|--|--------------------------------|--------------|
|  | <b>Plumbing</b>                | <b>22</b>    |
|  | <b>Plumbing Piping</b>         | <b>22 10</b> |
|  | <b>Facility Storm Drainage</b> | <b>22 14</b> |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 22 14 26 16-0016 | EA  |     | 16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....    | 6,905.33               | 207.38               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0017 | EA  |     | 16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....    | 6,945.46               | 227.40               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0018 | EA  |     | 16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....  | 3,347.43               | 169.74               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0019 | EA  |     | 16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....  | 3,384.03               | 188.07               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0020 | EA  |     | 16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....  | 3,422.53               | 207.38               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0021 | EA  |     | 16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....  | 3,462.66               | 227.40               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0022 | EA  |     | 16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....     | 6,476.19               | 169.74               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0023 | EA  |     | 16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....     | 6,512.79               | 188.07               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0024 | EA  |     | 16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....     | 6,551.29               | 207.38               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0025 | EA  |     | 16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....     | 6,591.42               | 227.40               |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>   | 123.50                 |                      |
|                  |     |     | <i>For Primer Tap, Add</i>   | 36.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 258.50                 |                      |
| 22 14 26 16-0026 | EA  |     | 9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....   | 1,528.31               | 169.74               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0027 | EA  |     | 9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....   | 1,564.91               | 188.07               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0028 | EA  |     | 9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....   | 1,603.41               | 207.38               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0029 | EA  |     | 9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots..... | 935.37                 | 169.74               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0030 | EA  |     | 9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots..... | 971.97                 | 188.07               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0031 | EA  |     | 9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots..... | 1,010.47               | 207.38               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0032 | EA  |     | 9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....    | 1,441.96               | 169.74               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0033 | EA  |     | 9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....    | 1,478.56               | 188.07               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |
| 22 14 26 16-0034 | EA  |     | 9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....    | 1,517.06               | 207.38               |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 87.50                  |                      |
|                  |     |     | <i>For Vandal Proof Grate, Add</i>   | 30.50                  |                      |

**22 Plumbing**

**22 10 Plumbing Piping**

**22 14 Facility Storm Drainage**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 22 14 26 16-0035 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer   | 4,559.21               | 169.74               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0036 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer   | 4,595.81               | 188.07               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0037 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer   | 4,634.31               | 207.38               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0038 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer | 2,973.24               | 169.74               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0039 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer | 3,009.84               | 188.07               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0040 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer | 3,048.34               | 207.38               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0041 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer    | 4,282.89               | 169.74               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0042 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer    | 4,319.49               | 188.07               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |
| 22 14 26 16-0043 | EA  |     | 12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer    | 4,357.99               | 207.38               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>  | 30.50                  |                      |
|                  |     |     | <i>For Ductile Iron Gate, Add</i>  | 126.00                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>   | 307.50                 |                      |

**22 14 26 19 Facility Trench Drains (22 14 26)**

|                  |    |  |  |          |        |
|------------------|----|--|--|----------|--------|
| 22 14 26 19-0001 |    |  | <b>Trench Drain (22 14 26 19)</b>  |          |        |
|                  |    |  | Note: Each section is 39.4" in length.   |          |        |
| 22 14 26 19-0002 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots   | 1,188.79 | 169.74 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |
| 22 14 26 19-0003 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots   | 1,225.39 | 188.07 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |
| 22 14 26 19-0004 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots   | 1,263.89 | 207.38 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |
| 22 14 26 19-0005 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots | 750.19   | 169.74 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |
| 22 14 26 19-0006 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots | 786.79   | 188.07 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |
| 22 14 26 19-0007 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots | 825.29   | 207.38 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |
| 22 14 26 19-0008 | EA |  | 6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots    | 1,129.03 | 169.74 |
|                  |    |  | <i>For Vandal Proof Screws, Add</i>  | 48.50    |        |
|                  |    |  | <i>For Ductile Iron Gate, Add</i>  | 66.00    |        |
|                  |    |  | <i>For Galvanized Cast Iron Parts, Add</i>   | 98.25    |        |



|  |                                |              |
|--|--------------------------------|--------------|
|  | <b>Plumbing</b>                | <b>22</b>    |
|  | <b>Plumbing Piping</b>         | <b>22 10</b> |
|  | <b>Facility Storm Drainage</b> | <b>22 14</b> |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 22 14 26 19-0009 | EA  |     | 6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....      | 1,165.63               | 188.07               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 66.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 98.25                  |                      |
| 22 14 26 19-0010 | EA  |     | 6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....      | 1,204.13               | 207.38               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 66.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 98.25                  |                      |
| 22 14 26 19-0011 | EA  |     | 6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....                       | 1,018.31               | 84.59                |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 66.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 98.25                  |                      |
| 22 14 26 19-0012 | EA  |     | 6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....                     | 579.71                 | 84.59                |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 66.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 98.25                  |                      |
| 22 14 26 19-0013 | EA  |     | 6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....                        | 958.55                 | 84.59                |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 66.00                  |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 98.25                  |                      |
| 22 14 26 19-0014 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....   | 1,845.24               | 169.74               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |
| 22 14 26 19-0015 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....   | 1,881.84               | 188.07               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |
| 22 14 26 19-0016 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....   | 1,920.34               | 207.38               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |
| 22 14 26 19-0017 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots ..... | 1,302.54               | 169.74               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |
| 22 14 26 19-0018 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots ..... | 1,339.14               | 188.07               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |
| 22 14 26 19-0019 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots ..... | 1,377.64               | 207.38               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |
| 22 14 26 19-0020 | EA  |     | 12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....    | 1,771.02               | 169.74               |
|                  |     |     | <i>For Vandal Proof Screws, Add</i>   | 48.50                  |                      |
|                  |     |     | <i>For Ductile Iron Grate, Add</i>  | 181.50                 |                      |
|                  |     |     | <i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>  | 38.50                  |                      |
|                  |     |     | <i>For Sediment Bucket, Add</i>   | 116.00                 |                      |
|                  |     |     | <i>For Galvanized Sediment Bucket, Add</i>  | 188.50                 |                      |
|                  |     |     | <i>For Galvanized Cast Iron Parts, Add</i>  | 131.50                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 14 26 19-0021 EA 12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections,<br>Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....              | 1,807.62                  | 188.07                  |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| For Sediment Bucket, Add   | 116.00                    |                         |
| For Galvanized Sediment Bucket, Add  | 188.50                    |                         |
| For Galvanized Cast Iron Parts, Add  | 131.50                    |                         |
| 22 14 26 19-0022 EA 12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections,<br>Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....              | 1,846.12                  | 207.38                  |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| For Sediment Bucket, Add   | 116.00                    |                         |
| For Galvanized Sediment Bucket, Add  | 188.50                    |                         |
| For Galvanized Cast Iron Parts, Add  | 131.50                    |                         |
| 22 14 26 19-0023 EA 12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body<br>Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots ..... | 1,556.05                  | 169.74                  |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| For Sediment Bucket, Add   | 116.00                    |                         |
| For Galvanized Sediment Bucket, Add  | 188.50                    |                         |
| For Galvanized Cast Iron Parts, Add  | 131.50                    |                         |
| 22 14 26 19-0024 EA 12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body<br>Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots ..... | 1,592.65                  | 188.07                  |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| For Sediment Bucket, Add   | 116.00                    |                         |
| For Galvanized Sediment Bucket, Add  | 188.50                    |                         |
| For Galvanized Cast Iron Parts, Add  | 131.50                    |                         |
| 22 14 26 19-0025 EA 12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body<br>Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots ..... | 1,631.15                  | 207.38                  |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| For Sediment Bucket, Add   | 116.00                    |                         |
| For Galvanized Sediment Bucket, Add  | 188.50                    |                         |
| For Galvanized Cast Iron Parts, Add  | 131.50                    |                         |
| 22 14 26 19-0026 EA 12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set<br>Grate With Perimeter Drainage Slots.....                                 | 1,674.73                  | 84.59                   |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| 22 14 26 19-0027 EA 12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose<br>Set Grate With Perimeter Drainage Slots .....                              | 1,132.03                  | 84.59                   |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| 22 14 26 19-0028 EA 12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set<br>Grate With Perimeter Drainage Slots.....                                  | 1,600.51                  | 84.59                   |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |
| 22 14 26 19-0029 EA 12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy<br>Duty Loose Set Grate With Perimeter Drainage Slots .....                    | 1,385.54                  | 84.59                   |
| For Vandal Proof Screws, Add   | 48.50                     |                         |
| For Ductile Iron Grate, Add  | 181.50                    |                         |
| For Convex Grate On Cast Iron Or Ductile Price, Add  | 38.50                     |                         |

## 22 14 29 Sump Pumps <sup>(22 14)</sup>

See CSI section 22 11 16 00-0000 for pipe extensions into well.

### 22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps <sup>(22 14 29)</sup>

#### 22 14 29 13-0001 Vertical Mounted Sump Pumps <sup>(22 14 29 13)</sup>

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

|  |           |          |
|--|-----------|----------|
| 22 14 29 13-0002 EA 1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....  | 6,603.44  | 409.02   |
| For Explosion Proof Motor, Add   | 283.84    |          |
| 22 14 29 13-0003 EA 1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....  | 7,015.56  | 495.05   |
| For Explosion Proof Motor, Add   | 315.55    |          |
| 22 14 29 13-0004 EA 2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head..... | 8,027.64  | 588.13   |
| For Explosion Proof Motor, Add   | 407.65    |          |
| 22 14 29 13-0005 EA 3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....     | 8,615.59  | 723.53   |
| For Explosion Proof Motor, Add   | 462.00    |          |
| 22 14 29 13-0006 EA 5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....     | 9,110.33  | 784.18   |
| For Explosion Proof Motor, Add   | 674.88    |          |
| 22 14 29 13-0007 EA 10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....    | 10,809.49 | 940.73   |
| For Explosion Proof Motor, Add   | 765.47    |          |
| 22 14 29 13-0008 EA 15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....    | 12,575.55 | 974.38   |
| For Explosion Proof Motor, Add   | 1,254.64  |          |
| 22 14 29 13-0009 EA 20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....    | 14,919.14 | 1,085.51 |
| For Explosion Proof Motor, Add   | 1,665.31  |          |



|                                |              |           |
|--------------------------------|--------------|-----------|
| <b>Plumbing</b>                | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>         | <b>22 10</b> |           |
| <b>Facility Storm Drainage</b> | <b>22 14</b> |           |

| MINOR                                 | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---------------------------------------|-----|-----|--|------------------------|----------------------|
| 22 14 29 13-0010                      | EA  |     | 30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head.....<br><i>For Explosion Proof Motor, Add</i>                                       | 16,139.08<br>2,159.01  | 1,265.98             |
| 22 14 29 13-0011                      | EA  |     | 50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head.....<br><i>For Explosion Proof Motor, Add</i>                                       | 21,612.02<br>2,812.76  | 1,519.71             |
| 22 14 29 13-0012                      | EA  |     | 60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head.....<br><i>For Explosion Proof Motor, Add</i>                                       | 29,813.48<br>4,458.44  | 1,687.97             |
| <b>22 14 29 13-0013</b>               |     |     | <b>Extra Column Assemblies</b> <small>(22 14 29 13)</small>  |                        |                      |
| 22 14 29 13-0014                      | EA  |     | 1-1/2" Diameter x 5' Long Extra Column Assembly .....  | 1,001.93               |                      |
| 22 14 29 13-0015                      | EA  |     | 2" Diameter x 5' Long Extra Column Assembly .....  | 1,096.34               |                      |
| 22 14 29 13-0016                      | EA  |     | 2-1/2" Diameter x 5' Long Extra Column Assembly .....  | 1,199.66               |                      |
| 22 14 29 13-0017                      | EA  |     | 3" Diameter x 5' Long Extra Column Assembly .....  | 1,440.42               |                      |
| 22 14 29 13-0018                      | EA  |     | 4" Diameter x 5' Long Extra Column Assembly .....  | 1,610.01               |                      |
| 22 14 29 13-0019                      | EA  |     | 5" Diameter x 5' Long Extra Column Assembly .....  | 1,639.32               |                      |
| 22 14 29 13-0020                      | EA  |     | 6" Diameter x 5' Long Extra Column Assembly .....  | 1,840.31               |                      |
| 22 14 29 13-0021                      | EA  |     | 8" Diameter x 5' Long Extra Column Assembly .....  | 2,013.73               |                      |
| <b>22 14 29 13-0022</b>               |     |     | <b>Support Plate</b> <small>(22 14 29 13)</small>  |                        |                      |
| 22 14 29 13-0023                      | EA  |     | 24" Steel Support Plate, Round Or Square.....  | 917.25                 | 56.39                |
| 22 14 29 13-0024                      | EA  |     | 30" Steel Support Plate, Round Or Square.....  | 1,015.59               | 63.44                |
| 22 14 29 13-0025                      | EA  |     | 36" Steel Support Plate, Round Or Square.....  | 1,408.45               | 84.59                |
| 22 14 29 13-0026                      | EA  |     | 40" Steel Support Plate, Round Or Square.....  | 2,038.48               | 98.69                |
| 22 14 29 13-0027                      | EA  |     | 42" Steel Support Plate, Round Or Square.....  | 2,184.52               | 102.21               |
| 22 14 29 13-0028                      | EA  |     | 48" Steel Support Plate, Round Or Square.....  | 2,335.03               | 105.74               |
| 22 14 29 13-0029                      | EA  |     | 54" Steel Support Plate, Round Or Square.....  | 2,972.93               | 126.88               |
| 22 14 29 13-0030                      | EA  |     | 60" Steel Support Plate, Round Or Square.....  | 4,020.05               | 140.98               |
| 22 14 29 13-0031                      | EA  |     | 72" Steel Support Plate, Round Or Square.....  | 5,365.15               | 176.23               |
| 22 14 29 13-0032                      | EA  |     | 84" Steel Support Plate, Round Or Square.....  | 6,473.43               | 193.84               |
| <b>22 14 29 16</b>                    |     |     | <b>Submersible Sump Pumps</b> <small>(22 14 29)</small>  |                        |                      |
| <b>22 14 29 16-0001</b>               |     |     | <b>Submersible Sump Pump With Vortex Impeller</b> <small>(22 14 29 16)</small>   |                        |                      |
| <b>22 14 29 16-0002</b>               |     |     | <b>Submersible Sump Pump With Cast Iron Vortex Impeller</b> <small>(22 14 29 16-0001)</small>  |                        |                      |
| 22 14 29 16-0003                      | EA  |     | 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....                              | 584.41                 | 91.88                |
| 22 14 29 16-0004                      | EA  |     | 1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....                           | 642.46                 | 91.88                |
| 22 14 29 16-0005                      | EA  |     | 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....                              | 985.68                 | 97.23                |
| 22 14 29 16-0006                      | EA  |     | 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....                           | 1,077.54               | 97.23                |
| <b>22 14 29 16-0007</b>               |     |     | <b>Submersible Sump Pump With Bronze Vortex Impeller</b> <small>(22 14 29 16-0001)</small>   |                        |                      |
| Note: Includes 20' of cord with pump. |     |     |  |                        |                      |
| 22 14 29 16-0008                      | EA  |     | 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....    | 1,626.18               | 97.23                |
| 22 14 29 16-0009                      | EA  |     | 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller..... | 1,764.61               | 97.23                |
| 22 14 29 16-0010                      | EA  |     | 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....                  | 1,856.49               | 107.20               |
| 22 14 29 16-0011                      | EA  |     | 1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....               | 2,004.49               | 107.20               |
| 22 14 29 16-0012                      | EA  |     | 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....              | 2,069.56               | 122.50               |
| 22 14 29 16-0013                      | EA  |     | 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....           | 2,215.01               | 122.50               |
| 22 14 29 16-0014                      | EA  |     | 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....                  | 2,229.06               | 145.47               |
| 22 14 29 16-0015                      | EA  |     | 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....               | 2,355.38               | 145.47               |
| <b>22 14 29 16-0016</b>               |     |     | <b>Submersible Sump Pump With Semi-Open Impeller</b> <small>(22 14 29 16)</small>  |                        |                      |
| Note: Includes 20' of cord with pump. |     |     |  |                        |                      |
| 22 14 29 16-0017                      | EA  |     | 1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                     | 1,305.42               | 91.88                |
| 22 14 29 16-0018                      | EA  |     | 1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                     | 1,346.12               | 91.88                |
| 22 14 29 16-0019                      | EA  |     | 1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                     | 1,670.59               | 97.23                |
| 22 14 29 16-0020                      | EA  |     | 1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                     | 1,699.19               | 97.23                |
| 22 14 29 16-0021                      | EA  |     | 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                     | 2,030.27               | 102.60               |
| 22 14 29 16-0022                      | EA  |     | 3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                     | 2,030.27               | 102.60               |
| 22 14 29 16-0023                      | EA  |     | 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                                       | 2,146.80               | 107.20               |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                          | 2,146.80                  | 107.20                  |
| 22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                      | 2,450.17                  | 122.50                  |
| 22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                      | 2,450.17                  | 122.50                  |
| 22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                          | 2,850.29                  | 145.47                  |
| 22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....                          | 2,800.78                  | 145.47                  |
| <b>22 14 29 19 Sump-Pump Basins and Pits (22 14 29)</b><br>See CSI section 22 13 29 33-0000 for basins and pits.  |                           |                         |
| <b>22 15 General Service Compressed-Air Systems (22 10)</b>   |                           |                         |
| <b>22 15 13 General Service Compressed-Air Piping (22 15)</b><br>See CSI section 22 11 16 00-0013 for threaded galvanized steel pipe, 23 21 13 23-0001 for threaded black steel pipe. |                           |                         |
| 22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)   |                           |                         |
| 22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)   |                           |                         |
| 22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket .....  | 69.65                     | 21.44                   |
| 22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket .....  | 77.17                     | 26.03                   |
| <b>22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)</b><br>Note: 120 Voltage, 1 Phase   |                           |                         |
| 22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 842.24                    | 122.14                  |
| 22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 957.36                    | 125.53                  |
| 22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 1,120.08                  | 128.92                  |
| 22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 1,256.98                  | 135.71                  |
| 22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 1,627.55                  | 152.67                  |
| 22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 1,840.21                  | 173.71                  |
| 22 15 13 00-0012 EA 25 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 2,065.72                  | 196.78                  |
| 22 15 13 00-0013 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 2,423.64                  | 220.53                  |
| 22 15 13 00-0014 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 2,810.38                  | 257.85                  |
| 22 15 13 00-0015 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 3,160.79                  | 275.49                  |
| 22 15 13 00-0016 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 3,706.98                  | 305.35                  |
| 22 15 13 00-0017 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 4,259.42                  | 339.27                  |
| For 230 Voltage, Add  | 1,074.26                  |                         |
| 22 15 13 00-0018 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....   | 4,606.51                  | 373.20                  |
| For 230 Voltage, Add  | 1,158.03                  |                         |
| 22 15 13 00-0019 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 4,965.41                  | 413.91                  |
| For 230 Voltage, Add  | 1,241.81                  |                         |
| 22 15 13 00-0020 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 5,366.40                  | 441.05                  |
| For 230 Voltage, Add  | 1,345.29                  |                         |
| 22 15 13 00-0021 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 5,671.36                  | 458.02                  |
| For 230 Voltage, Add  | 1,426.60                  |                         |
| 22 15 13 00-0022 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 9,696.80                  | 474.98                  |
| For 230 Voltage, Add  | 2,624.05                  |                         |
| 22 15 13 00-0023 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 10,412.40                 | 491.94                  |
| For 230 Voltage, Add  | 2,828.56                  |                         |
| 22 15 13 00-0024 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 11,108.30                 | 508.90                  |
| For 230 Voltage, Add  | 3,027.15                  |                         |
| 22 15 13 00-0025 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 13,171.92                 | 542.83                  |
| For 230 Voltage, Add  | 3,625.88                  |                         |
| 22 15 13 00-0026 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 14,966.02                 | 678.55                  |
| For 230 Voltage, Add  | 4,082.68                  |                         |
| 22 15 13 00-0027 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 21,224.72                 | 814.25                  |
| For 230 Voltage, Add  | 5,878.87                  |                         |
| 22 15 13 00-0028 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 28,756.43                 | 949.96                  |
| For 230 Voltage, Add  | 8,056.95                  |                         |
| 22 15 13 00-0029 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....  | 32,206.27                 | 1,085.67                |
| For 230 Voltage, Add  | 9,010.48                  |                         |
| <b>22 15 13 00-0030 Oil And Water Separator For Air Compressor (22 15 13)</b>   |                           |                         |
| 22 15 13 00-0031 EA 0-60 SCFM Oil/Water Separator .....   | 728.13                    | 49.02                   |
| 22 15 13 00-0032 EA 85 SCFM Oil/Water Separator .....   | 972.32                    | 57.45                   |
| 22 15 13 00-0033 EA 190 SCFM Oil/Water Separator .....  | 1,135.47                  | 65.10                   |
| 22 15 13 00-0034 EA 245 SCFM Oil/Water Separator .....  | 1,422.91                  | 76.59                   |
| 22 15 13 00-0035 EA 320 SCFM Oil/Water Separator .....  | 1,691.73                  | 91.90                   |
| 22 15 13 00-0036 EA 700 SCFM Oil/Water Separator .....  | 3,413.55                  | 191.47                  |
| <b>22 15 13 00-0037 Heavy Duty Industrial Pressure Regulator (22 15 13)</b>   |                           |                         |
| 22 15 13 00-0038 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....  | 142.21                    | 40.71                   |
| 22 15 13 00-0039 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....  | 197.27                    | 54.28                   |
| 22 15 13 00-0040 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....  | 324.28                    | 67.85                   |
| 22 15 13 00-0041 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....  | 415.13                    | 101.78                  |
| 22 15 13 00-0042 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....  | 568.21                    | 118.74                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 15 13 00-0043 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....                                    | 602.14                    | 135.71                  |
| <b>22 15 13 00-0044</b> <b>Combination Air System; Filter Regulator Lubricator</b> <small>(22 15 13)</small>                |                           |                         |
| 22 15 13 00-0045 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter .....                    | 523.51                    | 122.14                  |
| 22 15 13 00-0046 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter .....                    | 654.20                    | 162.85                  |
| <b>22 15 13 00-0047</b> <b>Heatless Desiccant Air Dryers</b> <small>(22 15 13)</small>                                      |                           |                         |
| 22 15 13 00-0048 EA 5 SCFM Heatless Desiccant Air Dryer .....   | 2,778.32                  | 122.14                  |
| 22 15 13 00-0049 EA 10 SCFM Heatless Desiccant Air Dryer .....  | 3,334.87                  | 135.71                  |
| 22 15 13 00-0050 EA 15 SCFM Heatless Desiccant Air Dryer .....  | 3,373.51                  | 149.28                  |
| 22 15 13 00-0051 EA 20 SCFM Heatless Desiccant Air Dryer .....  | 3,852.87                  | 169.63                  |
| 22 15 13 00-0052 EA 30 SCFM Heatless Desiccant Air Dryer .....  | 5,292.22                  | 203.56                  |
| 22 15 13 00-0053 EA 50 SCFM Heatless Desiccant Air Dryer .....  | 5,262.02                  | 271.42                  |
| 22 15 13 00-0054 EA 85 SCFM Heatless Desiccant Air Dryer .....  | 7,055.12                  | 339.27                  |
| 22 15 13 00-0055 EA 100 SCFM Heatless Desiccant Air Dryer .....   | 7,510.80                  | 407.13                  |
| 22 15 13 00-0056 EA 125 SCFM Heatless Desiccant Air Dryer .....   | 8,603.16                  | 474.98                  |
| 22 15 13 00-0057 EA 175 SCFM Heatless Desiccant Air Dryer .....   | 9,877.69                  | 542.83                  |
| 22 15 13 00-0058 EA 200 SCFM Heatless Desiccant Air Dryer .....   | 10,628.55                 | 610.68                  |
| 22 15 13 00-0059 EA 300 SCFM Heatless Desiccant Air Dryer .....   | 12,962.05                 | 678.55                  |
| 22 15 13 00-0060 EA 400 SCFM Heatless Desiccant Air Dryer .....   | 14,429.28                 | 814.25                  |
| 22 15 13 00-0061 EA 500 SCFM Heatless Desiccant Air Dryer .....   | 16,681.68                 | 949.96                  |
| 22 15 13 00-0062 EA 600 SCFM Heatless Desiccant Air Dryer .....   | 19,242.87                 | 1,085.67                |
| <b>22 15 13 00-0063</b> <b>Air Cooled Aftercoolers</b> <small>(22 15 13)</small>  |                           |                         |
| 22 15 13 00-0064 EA 20 SCFM Air-Cooled Aftercooler .....  | 728.15                    | 84.82                   |
| 22 15 13 00-0065 EA 35 SCFM Air-Cooled Aftercooler .....  | 977.22                    | 101.78                  |
| 22 15 13 00-0066 EA 43 SCFM Air-Cooled Aftercooler .....  | 1,076.86                  | 118.74                  |
| 22 15 13 00-0067 EA 70 SCFM Air-Cooled Aftercooler .....  | 1,311.19                  | 135.71                  |
| 22 15 13 00-0068 EA 125 SCFM Air-Cooled Aftercooler .....   | 1,808.32                  | 152.67                  |
| 22 15 13 00-0069 EA 185 SCFM Air-Cooled Aftercooler .....   | 2,029.51                  | 169.63                  |
| 22 15 13 00-0070 EA 260 SCFM Air-Cooled Aftercooler .....   | 3,867.10                  | 203.56                  |
| 22 15 13 00-0071 EA 365 SCFM Air-Cooled Aftercooler .....   | 4,055.19                  | 237.49                  |
| 22 15 13 00-0072 EA 560 SCFM Air-Cooled Aftercooler .....   | 4,241.97                  | 271.42                  |
| 22 15 13 00-0073 EA 650 SCFM Air-Cooled Aftercooler .....   | 4,968.17                  | 305.35                  |
| 22 15 13 00-0074 EA 750 SCFM Air-Cooled Aftercooler .....   | 5,434.21                  | 339.27                  |
| 22 15 13 00-0075 EA 900 SCFM Air-Cooled Aftercooler .....   | 6,223.49                  | 373.20                  |
| 22 15 13 00-0076 EA 1,100 SCFM Air-Cooled Aftercooler .....   | 7,953.65                  | 407.13                  |
| 22 15 13 00-0077 EA 1,460 SCFM Air-Cooled Aftercooler .....   | 9,085.24                  | 441.05                  |
| 22 15 13 00-0078 EA 1,800 SCFM Air-Cooled Aftercooler .....   | 9,391.28                  | 474.98                  |
| 22 15 13 00-0079 EA 2,500 SCFM Air-Cooled Aftercooler .....   | 10,070.18                 | 508.90                  |
| <b>22 15 13 00-0080</b> <b>Compressed Air Coalescing Filters</b> <small>(22 15 13)</small>                                  |                           |                         |
| <b>22 15 13 00-0081</b> <b>1.0 Micron Filter Rated Compressed Air Coalescing Filters</b> <small>(22 15 13 00-0080)</small>  |                           |                         |
| 22 15 13 00-0082 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating .....  | 263.83                    | 49.78                   |
| 22 15 13 00-0083 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating .....  | 309.82                    | 49.78                   |
| 22 15 13 00-0084 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating .....  | 339.92                    | 57.45                   |
| 22 15 13 00-0085 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating .....  | 391.26                    | 65.87                   |
| 22 15 13 00-0086 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating .....                                       | 454.33                    | 72.76                   |
| 22 15 13 00-0087 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating .....   | 517.81                    | 88.07                   |
| 22 15 13 00-0088 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating .....                                      | 634.44                    | 95.73                   |
| 22 15 13 00-0089 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating .....                                      | 676.56                    | 114.88                  |
| 22 15 13 00-0090 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating .....  | 871.41                    | 153.18                  |
| 22 15 13 00-0091 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating .....  | 995.12                    | 172.32                  |
| <b>22 15 13 00-0092</b> <b>0.01 Micron Filter Rated Compressed Air Coalescing Filters</b> <small>(22 15 13 00-0080)</small> |                           |                         |
| 22 15 13 00-0093 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating .....  | 316.39                    | 49.78                   |
| 22 15 13 00-0094 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating .....  | 344.82                    | 57.45                   |
| 22 15 13 00-0095 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating .....  | 395.86                    | 65.87                   |
| 22 15 13 00-0096 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating .....   | 463.53                    | 65.10                   |
| 22 15 13 00-0097 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating .....                                     | 528.32                    | 88.07                   |
| 22 15 13 00-0098 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating .....                                     | 597.19                    | 95.73                   |
| 22 15 13 00-0099 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating .....                                     | 688.38                    | 114.88                  |
| 22 15 13 00-0100 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating .....   | 891.13                    | 153.18                  |
| 22 15 13 00-0101 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating .....   | 1,021.40                  | 172.32                  |
| <b>22 15 13 00-0102</b> <b>Compressed Air Storage Tanks</b> <small>(22 15 13)</small>                                       |                           |                         |
| <b>22 15 13 00-0103</b> <b>Horizontal Compressed Air Storage Tanks</b> <small>(22 15 13 00-0102)</small>                    |                           |                         |
| 22 15 13 00-0104 EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME .....  | 447.09                    | 108.57                  |
| 22 15 13 00-0105 EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME .....  | 794.69                    | 118.74                  |
| 22 15 13 00-0106 EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME .....  | 841.73                    | 124.85                  |
| 22 15 13 00-0107 EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME .....  | 957.82                    | 135.71                  |
| 22 15 13 00-0108 EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME .....  | 1,252.01                  | 183.20                  |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 22 15 13 00-0109        | EA  |     | 80 Gallon Horizontal Compressed Air Storage Tank, ASME .....  | 1,506.54               | 203.56               |
| 22 15 13 00-0110        | EA  |     | 120 Gallon Horizontal Compressed Air Storage Tank, ASME .....   | 2,240.96               | 237.49               |
| 22 15 13 00-0111        | EA  |     | 200 Gallon Horizontal Compressed Air Storage Tank, ASME .....   | 3,318.73               | 271.42               |
| 22 15 13 00-0112        | EA  |     | 240 Gallon Horizontal Compressed Air Storage Tank, ASME .....   | 3,696.06               | 288.38               |
| 22 15 13 00-0113        | EA  |     | 325 Gallon Horizontal Compressed Air Storage Tank, ASME .....   | 5,312.05               | 305.35               |
| 22 15 13 00-0114        | EA  |     | 400 Gallon Horizontal Compressed Air Storage Tank, ASME .....   | 6,985.82               | 356.24               |
| 22 15 13 00-0115        | EA  |     | 660 Gallon Horizontal Compressed Air Storage Tank, ASME .....   | 10,024.57              | 424.09               |
| <b>22 15 13 00-0116</b> |     |     | <b>Vertical Compressed Air Storage Tanks (22 15 13 00-0102)</b>   |                        |                      |
| 22 15 13 00-0117        | EA  |     | 10 Gallon Vertical Compressed Air Storage Tank, ASME .....  | 739.51                 | 108.57               |
| 22 15 13 00-0118        | EA  |     | 15 Gallon Vertical Compressed Air Storage Tank, ASME .....  | 777.28                 | 118.74               |
| 22 15 13 00-0119        | EA  |     | 20 Gallon Vertical Compressed Air Storage Tank, ASME .....  | 841.73                 | 124.85               |
| 22 15 13 00-0120        | EA  |     | 30 Gallon Vertical Compressed Air Storage Tank, ASME .....  | 992.30                 | 135.71               |
| 22 15 13 00-0121        | EA  |     | 60 Gallon Vertical Compressed Air Storage Tank, ASME .....  | 1,355.44               | 183.20               |
| 22 15 13 00-0122        | EA  |     | 80 Gallon Vertical Compressed Air Storage Tank, ASME .....  | 1,556.35               | 203.56               |
| 22 15 13 00-0123        | EA  |     | 120 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 2,132.65               | 237.49               |
| 22 15 13 00-0124        | EA  |     | 200 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 3,095.50               | 271.42               |
| 22 15 13 00-0125        | EA  |     | 240 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 3,411.52               | 288.38               |
| 22 15 13 00-0126        | EA  |     | 325 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 4,615.56               | 305.35               |
| 22 15 13 00-0127        | EA  |     | 400 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 5,904.88               | 356.24               |
| 22 15 13 00-0128        | EA  |     | 500 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 7,679.15               | 390.16               |
| 22 15 13 00-0129        | EA  |     | 660 Gallon Vertical Compressed Air Storage Tank, ASME .....   | 12,705.19              | 441.05               |
| <b>22 15 19</b>         |     |     | <b>General Service Packaged Air Compressors and Receivers (22 15)</b>   |                        |                      |
|                         |     |     | Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.    |                        |                      |
| <b>22 15 19 13</b>      |     |     | <b>General Service Packaged Reciprocating Air Compressors (22 15 19)</b>  |                        |                      |
| <b>22 15 19 13-0001</b> |     |     | <b>Single Stage Compressor (22 15 19 13)</b>  |                        |                      |
|                         |     |     | Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.                              |                        |                      |
| 22 15 19 13-0002        | EA  |     | 1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....                                 | 3,134.46               | 481.49               |
| 22 15 19 13-0003        | EA  |     | 3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....                                 | 3,293.30               | 555.73               |
| 22 15 19 13-0004        | EA  |     | 1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....                                   | 3,765.83               | 656.28               |
| 22 15 19 13-0005        | EA  |     | 2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....  | 4,282.10               | 724.14               |
| 22 15 19 13-0006        | EA  |     | 3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....  | 5,195.73               | 764.85               |
| 22 15 19 13-0007        | EA  |     | 3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure .....  | 5,542.63               | 792.00               |
| 22 15 19 13-0008        | EA  |     | 5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure .....  | 6,229.60               | 905.17               |
| 22 15 19 13-0009        | EA  |     | 5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure .....  | 6,677.87               | 959.45               |
| 22 15 19 13-0010        | EA  |     | 7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure .....  | 7,989.52               | 1,086.21             |
| <b>22 15 19 13-0011</b> |     |     | <b>Two Stage Compressor (22 15 19 13)</b>   |                        |                      |
|                         |     |     | Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted. |                        |                      |
| 22 15 19 13-0012        | EA  |     | 1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure .....   | 5,967.29               | 846.28               |
| 22 15 19 13-0013        | EA  |     | 2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure .....   | 6,436.49               | 995.69               |
| 22 15 19 13-0014        | EA  |     | 3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure .....  | 6,743.67               | 1,086.21             |
| 22 15 19 13-0015        | EA  |     | 5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure .....  | 7,772.86               | 1,448.28             |
| 22 15 19 13-0016        | EA  |     | 5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure .....  | 8,340.35               | 1,448.28             |
| 22 15 19 13-0017        | EA  |     | 7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure .....  | 9,043.69               | 1,810.35             |
| 22 15 19 13-0018        | EA  |     | 7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure .....                                      | 9,558.39               | 1,810.35             |
| 22 15 19 13-0019        | EA  |     | 10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure .....  | 12,235.03              | 2,239.19             |
| 22 15 19 13-0020        | EA  |     | 10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure .....  | 13,158.74              | 2,307.05             |
| 22 15 19 13-0021        | EA  |     | 15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure .....  | 14,207.09              | 2,696.26             |
| 22 15 19 13-0022        | EA  |     | 20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure .....  | 21,064.87              | 3,052.09             |
| 22 15 19 13-0023        | EA  |     | 25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure .....  | 22,687.54              | 3,448.76             |
| 22 15 19 13-0024        | EA  |     | 30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure .....  | 25,275.61              | 3,811.65             |
| 22 15 19 13-0025        | EA  |     | 30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure .....   | 27,507.59              | 4,177.38             |
| <b>22 15 19 19</b>      |     |     | <b>General Service Packaged Rotary-Screw Air Compressors (22 15 19)</b>   |                        |                      |
| <b>22 15 19 19-0001</b> |     |     | <b>Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)</b>   |                        |                      |
|                         |     |     | Note: Oil flooded.  |                        |                      |
| 22 15 19 19-0002        | EA  |     | 3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated .....                               | 10,120.88              | 1,222.36             |
| 22 15 19 19-0003        | EA  |     | 5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated .....                              | 11,380.28              | 1,629.82             |
| 22 15 19 19-0004        | EA  |     | 7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                              | 14,574.42              | 2,043.40             |
| 22 15 19 19-0005        | EA  |     | 10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                               | 16,953.12              | 2,604.03             |
| 22 15 19 19-0006        | EA  |     | 15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                               | 19,405.54              | 3,063.56             |
| 22 15 19 19-0007        | EA  |     | 20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                               | 23,468.07              | 3,446.51             |
| 22 15 19 19-0008        | EA  |     | 25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                              | 25,743.67              | 3,829.45             |
| 22 15 19 19-0009        | EA  |     | 30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                              | 30,840.92              | 4,288.99             |
| 22 15 19 19-0010        | EA  |     | 40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                              | 33,863.37              | 4,595.34             |
| 22 15 19 19-0011        | EA  |     | 50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                              | 37,947.09              | 4,952.25             |
| 22 15 19 19-0012        | EA  |     | 60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                               | 48,980.60              | 5,361.23             |
| 22 15 19 19-0013        | EA  |     | 75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....                               | 54,259.81              | 5,667.59             |
| 22 15 19 19-0014        | EA  |     | 100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated .....                              | 86,179.77              | 6,127.12             |



|   |              |           |
|---|--------------|-----------|
| <b>Plumbing</b>                               | <b>22</b>    | <b>22</b> |
| <b>Plumbing Piping</b>                        | <b>22 10</b> |           |
| <b>General Service Compressed-Air Systems</b> | <b>22 15</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 15 19 19-0015 EA 125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....  | 107,200.92                | 6,624.95                |
| 22 15 19 19-0016 EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....  | 124,350.39                | 7,130.44                |
| 22 15 19 19-0017 EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....  | 161,280.81                | 7,658.90                |
| 22 15 19 19-0018 EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....  | 183,072.13                | 8,149.08                |
| <b>22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver</b> <sup>(22 15 19 19)</sup><br>Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer. |                           |                         |
| 22 15 19 19-0020 EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....   | 12,665.71                 | 1,629.82                |
| 22 15 19 19-0021 EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....  | 13,425.89                 | 1,629.82                |
| 22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....   | 15,178.86                 | 2,043.40                |
| 22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....  | 16,010.31                 | 2,043.40                |
| 22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....  | 17,285.70                 | 2,604.03                |
| 22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....   | 18,164.65                 | 2,604.03                |
| 22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....  | 19,680.05                 | 3,063.56                |
| 22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....   | 20,630.27                 | 3,063.56                |
| 22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....   | 33,477.05                 | 3,446.51                |
| 22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....  | 36,108.98                 | 3,829.45                |
| 22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....  | 38,503.38                 | 4,288.99                |

**22 30 Plumbing Equipment** <sup>(22)</sup>

**22 31 Domestic Water Softeners** <sup>(22 30)</sup>

**22 31 16 Commercial Domestic Water Softeners** <sup>(22 31)</sup>

22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16)</sup>

22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16 00-0001)</sup>

22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16 00-0002)</sup>

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

|   |          |        |
|---|----------|--------|
| 22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11).....  | 5,283.44 | 387.70 |
| 22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11).....  | 5,522.59 | 405.32 |
| 22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11).....  | 5,959.09 | 422.94 |
| 22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11).....  | 6,853.85 | 440.56 |
| 22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11)..... | 7,303.51 | 458.19 |

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16 00-0002)</sup>

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

|   |           |        |
|---|-----------|--------|
| 22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11).....  | 7,895.19  | 422.94 |
| 22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11).....  | 8,303.18  | 440.56 |
| 22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11)..... | 8,755.03  | 458.19 |
| 22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11)..... | 10,395.29 | 475.81 |
| 22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11)..... | 11,550.95 | 493.44 |
| 22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11)..... | 14,052.91 | 511.05 |

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16 00-0002)</sup>

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11) .....   | 11,964.87                 | 440.56                  |
| 22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11) .....  | 12,401.38                 | 458.19                  |
| 22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11) .....  | 14,046.02                 | 475.81                  |
| 22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11) .....  | 15,201.68                 | 493.44                  |
| 22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11) .....  | 17,839.58                 | 511.05                  |
| 22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11) .....  | 23,512.07                 | 528.68                  |
| 22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11) .....  | 27,496.25                 | 546.30                  |
| <b>22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002)</b><br>Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.                                       |                           |                         |
| 22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11) .....  | 28,855.36                 | 511.05                  |
| 22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11) .....  | 33,328.48                 | 528.68                  |
| 22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11) .....  | 37,260.03                 | 546.30                  |
| 22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11) .....  | 46,896.80                 | 563.93                  |
| 22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11) .....   | 51,922.47                 | 581.54                  |
| <b>22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)</b>   |                           |                         |
| <b>22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)</b><br>Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves. |                           |                         |
| 22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21) .....  | 19,630.16                 | 660.84                  |
| 22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21) .....   | 20,500.87                 | 687.28                  |
| 22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21) .....   | 23,336.19                 | 713.72                  |
| 22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21) .....   | 25,509.33                 | 740.15                  |
| 22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21) .....   | 31,122.70                 | 766.58                  |
| 22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21) .....   | 41,204.66                 | 793.02                  |
| 22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21) .....   | 48,484.44                 | 819.45                  |
| <b>22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)</b><br>Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves. |                           |                         |
| 22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21) .....   | 52,970.07                 | 766.58                  |
| 22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21) .....   | 60,841.86                 | 793.02                  |
| 22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21) .....   | 68,365.02                 | 819.45                  |
| 22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21) .....   | 86,965.34                 | 845.88                  |
| 22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21) .....   | 97,088.95                 | 872.32                  |
| <b>22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)</b>  |                           |                         |
| <b>22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)</b><br>Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.                     |                           |                         |
| 22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21) .....  | 6,956.02                  | 581.54                  |
| 22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21) .....  | 7,416.72                  | 607.98                  |
| 22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21) .....  | 8,085.71                  | 634.42                  |



|                                 |              |           |
|---------------------------------|--------------|-----------|
| <b>Plumbing</b>                 | <b>22</b>    | <b>22</b> |
| <b>Plumbing Equipment</b>       | <b>22 30</b> |           |
| <b>Domestic Water Softeners</b> | <b>22 31</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21).....       | 9,690.97                  | 660.84                  |
| 22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....     | 10,712.97                 | 687.28                  |
| <b>22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)</b>  |                           |                         |
| Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.                                       |                           |                         |
| 22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21) .....  | 13,551.93                 | 634.42                  |
| 22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21) .....  | 14,288.91                 | 660.84                  |
| 22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21) ..... | 15,376.70                 | 687.28                  |
| 22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21) ..... | 17,591.50                 | 713.72                  |
| 22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) ..... | 19,839.19                 | 740.15                  |
| 22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) ..... | 24,818.89                 | 766.58                  |

**22 32 Domestic Water Filtration Equipment (22 30)**

**22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)**

|  |           |        |
|--|-----------|--------|
| 22 32 16 00-0001 Commercial Water Filters Housings (22 32 16)  |           |        |
| 22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)   |           |        |
| 22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)   |           |        |
| 22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1) .....    | 2,745.28  | 248.91 |
| 22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1) .....    | 2,803.30  | 268.06 |
| 22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2) .....    | 2,984.12  | 287.21 |
| 22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3) .....    | 3,300.87  | 306.36 |
| 22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4) .....   | 3,402.76  | 325.50 |
| 22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4) .....   | 4,112.00  | 344.65 |
| 22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3) ..... | 11,399.13 | 363.80 |
| 22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4) ..... | 13,250.73 | 382.95 |
| 22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3) ..... | 16,801.61 | 402.09 |
| 22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4) ..... | 18,631.29 | 421.24 |

**22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)**

**22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)**

|  |       |      |
|--|-------|------|
| 22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50) .....   | 14.34 | 3.07 |
| 22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20) .....   | 14.34 | 3.07 |
| 22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10) .....   | 14.34 | 3.07 |
| 22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5) .....     | 12.15 | 3.07 |
| 22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1) .....     | 14.89 | 3.07 |
| 22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50) .....   | 14.89 | 3.07 |
| 22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20) .....   | 15.99 | 3.07 |
| 22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5) ..... | 19.82 | 3.07 |
| 22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1) .....     | 15.99 | 3.07 |
| 22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50) .....   | 18.73 | 3.07 |
| 22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20) .....   | 18.73 | 3.07 |
| 22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5) .....     | 18.73 | 3.07 |
| 22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1) .....     | 20.37 | 3.07 |
| 22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50) .....  | 26.40 | 3.07 |
| 22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20) .....  | 24.21 | 3.07 |
| 22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5) .....    | 24.21 | 3.07 |
| 22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1) .....    | 26.40 | 3.07 |

**22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)**

|  |       |      |
|--|-------|------|
| 22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50) .....          | 24.76 | 3.07 |
| 22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20) .....          | 24.76 | 3.07 |
| 22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5) .....            | 25.31 | 3.07 |
| 22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1) .....            | 26.95 | 3.07 |
| 22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB) ..... | 40.11 | 3.07 |

**22 Plumbing****22 30 Plumbing Equipment****22 32 Domestic Water Filtration Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50).....  | 38.46                     | 3.07                    |
| 22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20).....  | 38.46                     | 3.07                    |
| 22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5).....  | 38.46                     | 3.07                    |
| 22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1).....  | 50.52                     | 3.07                    |
| 22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB).....   | 71.35                     | 3.07                    |
| 22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50).....  | 59.84                     | 3.07                    |
| 22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20).....  | 82.86                     | 3.07                    |
| 22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5).....  | 86.15                     | 3.07                    |
| 22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1).....  | 97.11                     | 3.07                    |
| <b>22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)</b>   |                           |                         |
| <b>22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)</b>   |                           |                         |
| 22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....                                  | 2,170.88                  | 229.77                  |
| <b>22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)</b>  |                           |                         |
| <b>22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)</b>  |                           |                         |
| 22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....   | 689.12                    | 3.07                    |
| <b>22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)</b>   |                           |                         |
| 22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....   | 143.71                    | 3.07                    |
| 22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....   | 142.61                    | 3.07                    |
| 22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....   | 142.61                    | 3.07                    |
| 22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....   | 163.44                    | 3.07                    |
| <b>22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)</b>   |                           |                         |
| 22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....   | 378.87                    | 3.07                    |
| 22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....   | 355.84                    | 3.07                    |
| 22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....   | 387.64                    | 3.07                    |
| 22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....   | 406.28                    | 3.07                    |
| 22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....   | 432.59                    | 3.07                    |
| 22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....   | 468.76                    | 3.07                    |
| <b>22 33 Electric Domestic Water Heaters (22 30)</b>   |                           |                         |
| <b>22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)</b>  |                           |                         |
| <b>22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)</b>  |                           |                         |
| <b>22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)</b>  |                           |                         |
| 22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....                    | 640.29                    | 76.57                   |
| 22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....  | 645.62                    | 76.57                   |
| <b>22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)</b>  |                           |                         |
| <b>22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)</b>  |                           |                         |
| Note: Temperature rise decreases with increased flow rate.   |                           |                         |
| 22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T)..... | 851.89                    | 114.85                  |
| 22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....                                  | 840.18                    | 153.13                  |
| 22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....            | 1,426.05                  | 267.98                  |
| 22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....            | 2,125.66                  | 306.27                  |
| 22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....       | 1,716.39                  | 153.13                  |
| 22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....     | 2,347.71                  | 229.70                  |
| 22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....     | 2,593.21                  | 306.27                  |
| 22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....       | 2,691.02                  | 306.27                  |
| 22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....     | 2,783.40                  | 306.27                  |
| 22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....       | 2,919.25                  | 306.27                  |
| <b>22 33 30 Residential, Electric Domestic Water Heaters (22 33)</b>   |                           |                         |
| <b>22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)</b>  |                           |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Plumbing</b>                        | <b>22</b>    | <b>22</b> |
| <b>Plumbing Equipment</b>              | <b>22 30</b> |           |
| <b>Electric Domestic Water Heaters</b> | <b>22 33</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 33 30 13-0001</b> Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) <sup>(22 33 30)</sup>                          |                           |                         |
| <sup>13)</sup> Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.    |                           |                         |
| 22 33 30 13-0002 EA 2 Gallon, Small-Capacity, Electric Domestic Water Heater .....   | 1,199.50                  | 241.18                  |
| 22 33 30 13-0003 EA 10 Gallon, Small-Capacity, Electric Domestic Water Heater .....  | 1,469.22                  | 256.50                  |
| 22 33 30 13-0004 EA 20 Gallon, Small-Capacity, Electric Domestic Water Heater .....  | 1,731.29                  | 267.98                  |
| <b>22 33 30 16 Residential, Storage Electric Domestic Water Heaters</b> <sup>(22 33 30)</sup>  |                           |                         |
| <b>22 33 30 16-0001</b> Electric Domestic Water Heaters (A.O. Smith ProMax) <sup>(22 33 30 16)</sup>                                       |                           |                         |
| Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.                   |                           |                         |
| 22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater .....  | 1,848.15                  | 267.98                  |
| 22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater .....  | 1,740.63                  | 275.64                  |
| 22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater .....  | 1,714.10                  | 283.30                  |
| 22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater .....  | 1,910.79                  | 287.12                  |
| 22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater .....  | 2,765.17                  | 294.78                  |
| 22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater .....  | 2,818.03                  | 306.27                  |
| 22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater .....   | 3,741.42                  | 325.41                  |
| <b>22 33 30 16-0009</b> Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) <sup>(22 33 30 16)</sup>                              |                           |                         |
| Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.                   |                           |                         |
| 22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater .....   | 1,982.34                  | 267.98                  |
| 22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater .....   | 1,890.07                  | 275.64                  |
| 22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater .....   | 2,001.02                  | 283.30                  |
| <b>22 33 30 16-0013</b> High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) <sup>(22 33 30 16)</sup>             |                           |                         |
| Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections. |                           |                         |
| 22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater .....   | 2,046.83                  | 275.64                  |
| 22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater .....   | 2,234.14                  | 283.30                  |
| 22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater .....   | 2,744.10                  | 294.78                  |
| 22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater .....   | 2,982.26                  | 306.27                  |
| <b>22 33 30 16-0018</b> Water Heater Accessories <sup>(22 33 30 16)</sup>  |                           |                         |
| 22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters .....  | 156.30                    | 15.31                   |
| 22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters .....  | 184.34                    | 15.31                   |
| 22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters .....  | 357.56                    | 15.31                   |
| 22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters .....   | 479.47                    | 15.31                   |
| 22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan .....   | 80.39                     | 11.49                   |
| 22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan .....   | 87.31                     | 11.49                   |
| 22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan .....   | 91.92                     | 11.49                   |
| 22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan .....   | 108.06                    | 11.49                   |
| 22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....   | 45.68                     | 11.49                   |
| 22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....   | 49.37                     | 11.49                   |
| 22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....   | 54.56                     | 11.49                   |
| 22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....   | 61.23                     | 11.49                   |
| <b>22 33 30 23 Residential, Collector-To-Tank, Solar-Electric Domestic Water Heaters</b> <sup>(22 33 30)</sup>                             |                           |                         |
| <b>22 33 30 23-0001</b> Solar Electric Domestic Water Heaters (A.O. Smith CIRREX) <sup>(22 33 30 23)</sup>                                 |                           |                         |
| Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.                   |                           |                         |
| 22 33 30 23-0002 EA 80 Gallon, Solar Electric Domestic Water Heater .....  | 4,611.94                  | 306.27                  |
| 22 33 30 23-0003 EA 120 Gallon, Solar Electric Domestic Water Heater .....   | 5,524.02                  | 325.41                  |
| <b>22 33 33 Light-Commercial Electric Domestic Water Heaters</b> <sup>(22 33)</sup>  |                           |                         |
| <b>22 33 33 00-0001</b> Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) <sup>(22 33 33)</sup>                                |                           |                         |
| Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.                           |                           |                         |
| 22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3) .....  | 5,550.70                  | 267.98                  |
| 22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3) .....  | 5,761.85                  | 267.98                  |
| 22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6) .....  | 5,990.60                  | 267.98                  |
| 22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3) .....  | 6,067.16                  | 306.27                  |
| 22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6) .....  | 6,331.10                  | 306.27                  |
| 22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9) .....  | 6,753.40                  | 306.27                  |
| 22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12) .....  | 7,034.94                  | 306.27                  |
| 22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15) .....  | 7,263.68                  | 306.27                  |
| 22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18) .....  | 7,510.02                  | 306.27                  |
| 22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6) .....  | 6,595.04                  | 306.27                  |
| 22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9) .....  | 6,841.38                  | 306.27                  |
| 22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12) .....  | 7,122.92                  | 306.27                  |
| 22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15) .....  | 7,351.66                  | 306.27                  |





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18)                        | 7,598.00                  | 306.27                  |
| 22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24)                        | 9,410.38                  | 306.27                  |
| 22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9)                          | 7,223.27                  | 382.83                  |
| 22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12)                        | 7,452.01                  | 382.83                  |
| 22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15)                        | 7,733.55                  | 382.83                  |
| 22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18)                        | 7,979.89                  | 382.83                  |
| 22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24)                        | 9,809.86                  | 382.83                  |
| 22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30)                        | 10,654.47                 | 382.83                  |
| 22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36)                        | 11,481.48                 | 382.83                  |
| 22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9)                          | 8,361.77                  | 459.39                  |
| 22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12)                        | 8,590.51                  | 459.39                  |
| 22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15)                        | 8,819.26                  | 459.39                  |
| 22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18)                        | 9,065.60                  | 459.39                  |
| 22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24)                        | 10,948.37                 | 459.39                  |
| 22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30)                        | 11,792.97                 | 459.39                  |
| 22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36)                        | 12,619.98                 | 459.39                  |
| 22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45)                        | 14,115.63                 | 459.39                  |
| 22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54)                        | 14,784.27                 | 459.39                  |
| 22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60)                        | 17,106.93                 | 459.39                  |
| 22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75)                        | 20,098.23                 | 459.39                  |
| 22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90)                        | 25,130.66                 | 459.39                  |
| 22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9)                          | 9,477.44                  | 612.52                  |
| 22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)                        | 9,741.38                  | 612.52                  |
| 22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)                        | 9,987.72                  | 612.52                  |
| 22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)                        | 10,198.87                 | 612.52                  |
| 22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)                        | 12,064.04                 | 612.52                  |
| 22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)                        | 12,908.64                 | 612.52                  |
| 22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)                        | 13,718.05                 | 612.52                  |
| 22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)                        | 15,248.89                 | 612.52                  |
| 22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)                        | 15,899.94                 | 612.52                  |
| 22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)                        | 18,240.20                 | 612.52                  |
| 22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)                        | 21,249.10                 | 612.52                  |
| 22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)                        | 26,263.93                 | 612.52                  |
| 22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)                        | 10,598.34                 | 689.09                  |
| 22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)                        | 10,844.69                 | 689.09                  |
| 22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)                        | 11,055.84                 | 689.09                  |
| 22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)                        | 12,938.60                 | 689.09                  |
| 22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)                        | 13,695.22                 | 689.09                  |
| 22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)                        | 14,575.02                 | 689.09                  |
| 22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)                        | 16,105.86                 | 689.09                  |
| 22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)                        | 16,774.50                 | 689.09                  |
| 22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)                        | 18,973.99                 | 689.09                  |
| 22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)                        | 22,106.06                 | 689.09                  |
| 22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)                        | 27,120.89                 | 689.09                  |
| 22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)                      | 11,912.80                 | 765.66                  |
| 22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)                      | 12,194.34                 | 765.66                  |
| 22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)                      | 14,024.31                 | 765.66                  |
| 22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)                      | 14,868.91                 | 765.66                  |
| 22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)                      | 15,695.92                 | 765.66                  |
| 22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)                      | 17,191.57                 | 765.66                  |
| 22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)                      | 17,877.81                 | 765.66                  |
| 22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)                      | 20,182.88                 | 765.66                  |
| 22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)                      | 23,174.18                 | 765.66                  |
| 22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)                      | 28,224.20                 | 765.66                  |
| 22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)                      | 12,852.53                 | 918.79                  |
| 22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)                      | 13,098.87                 | 918.79                  |
| 22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)                      | 14,928.84                 | 918.79                  |
| 22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)                      | 15,738.25                 | 918.79                  |
| 22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)                      | 16,600.45                 | 918.79                  |
| 22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)                      | 18,096.10                 | 918.79                  |
| 22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)                      | 18,729.56                 | 918.79                  |
| 22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)                      | 21,105.00                 | 918.79                  |
| 22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)                      | 24,113.90                 | 918.79                  |
| 22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)                      | 29,111.14                 | 918.79                  |
| <b>22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) (22 33 33)</b>          |                           |                         |
| Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.                             |                           |                         |
| 22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)          | 1,626.82                  | 267.98                  |
| 22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)          | 1,737.67                  | 267.98                  |
| 22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)          | 1,896.93                  | 306.27                  |
| 22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)           | 3,163.84                  | 306.27                  |
| 22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)           | 3,668.90                  | 382.83                  |
| 22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)           | 4,085.96                  | 459.39                  |
| 22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D) | 4,964.14                  | 689.09                  |
| <b>22 33 33 00-0087 Water Heater Accessories (22 33 33)</b>  |                           |                         |
| 22 33 33 00-0088 EA Up To 80 Gallon Water Heater Strap   | 53.35                     |                         |
| Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts                        |                           |                         |



|  |  |              |
|--|--|--------------|
|  | <b>Plumbing</b>                        | <b>22</b>    |
|  | <b>Plumbing Equipment</b>              | <b>22 30</b> |
|  | <b>Electric Domestic Water Heaters</b> | <b>22 33</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap .....<br>Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts  | 76.99                     |                         |
| <b>22 33 33 00-0090 Removal And Reinstallation Of Water Heater (22 33 33)</b><br>Note: Includes storage and cleaning.  |                           |                         |
| 22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon .....   | 510.43                    |                         |
| 22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon .....   | 1,531.31                  |                         |
| <b>22 34 Fuel-Fired Domestic Water Heaters (22 30)</b>   |                           |                         |
| <b>22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34)</b>  |                           |                         |
| 22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)  |                           |                         |
| 22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)<br>00-0001<br>Note: Includes vent connection. Excludes vent.   |                           |                         |
| 22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN) .....  | 2,589.55                  | 306.27                  |
| 22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN) .....  | 2,804.32                  | 310.09                  |
| 22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN) .....   | 3,083.24                  | 317.75                  |
| 22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN) .....   | 3,606.63                  | 325.41                  |
| 22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN) .....  | 4,383.30                  | 344.54                  |
| 22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN) .....   | 4,477.45                  | 344.54                  |
| 22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)   |                           |                         |
| 22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN) .....  | 2,796.66                  | 306.27                  |
| 22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN) .....  | 4,383.30                  | 344.54                  |
| <b>22 34 30 Residential Gas Domestic Water Heaters (22 34)</b>   |                           |                         |
| <b>22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30)</b>   |                           |                         |
| 22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13)<br>Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.                |                           |                         |
| 22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30) .....   | 1,934.32                  | 294.78                  |
| 22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40) .....   | 1,898.83                  | 302.44                  |
| 22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50) .....  | 2,532.80                  | 310.09                  |
| 22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65) .....   | 2,742.52                  | 317.75                  |
| 22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75) .....   | 2,996.79                  | 325.41                  |
| 22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100) .....   | 4,442.90                  | 344.54                  |
| <b>22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30)</b>   |                           |                         |
| 22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16)<br>Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.                |                           |                         |
| 22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40) .....   | 3,556.51                  | 302.44                  |
| 22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50) .....   | 4,057.04                  | 310.09                  |
| 22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75) .....   | 5,283.52                  | 317.75                  |
| <b>22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30)</b>  |                           |                         |
| 22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19)<br>Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.                 |                           |                         |
| 22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40) .....   | 3,228.80                  | 302.44                  |
| 22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50) .....   | 3,363.66                  | 310.09                  |
| <b>22 34 36 Commercial Gas Domestic Water Heaters (22 34)</b>  |                           |                         |
| <b>22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters (22 34 36)</b>  |                           |                         |
| 22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 13)<br>Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent. |                           |                         |
| 22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120) .....   | 6,779.72                  | 459.39                  |
| 22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154) .....   | 7,257.66                  | 535.96                  |
| 22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180) .....   | 8,957.17                  | 612.52                  |
| 22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199) .....   | 7,785.03                  | 612.52                  |
| 22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200) .....  | 8,909.29                  | 612.52                  |
| 22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A) .....  | 11,816.88                 | 673.78                  |
| 22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250) .....  | 8,671.11                  | 689.09                  |

**22 Plumbing**

**22 30 Plumbing Equipment**

**22 34 Fuel-Fired Domestic Water Heaters**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A).....  | 12,743.08                 | 758.00                  |
| 22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251) .....  | 8,801.01                  | 689.09                  |
| 22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....   | 12,170.89                 | 758.00                  |
| 22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275) .....   | 9,787.72                  | 842.22                  |
| 22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....  | 13,358.33                 | 926.45                  |
| 22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305) .....  | 10,963.01                 | 842.22                  |
| 22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....   | 13,435.65                 | 926.45                  |
| 22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365) .....  | 10,652.27                 | 918.79                  |
| 22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....   | 14,825.78                 | 1,010.67                |
| 22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400) .....   | 13,420.34                 | 918.79                  |
| 22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....  | 17,485.65                 | 1,010.67                |
| 22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500) .....  | 17,408.64                 | 995.36                  |
| 22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151) .....  | 8,711.26                  | 535.96                  |
| 22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A) .....  | 10,426.74                 | 589.55                  |
| 22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201) .....  | 9,080.89                  | 612.52                  |
| 22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A) .....  | 10,858.09                 | 673.78                  |
| 22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200 .....  | 2,312.02                  | 382.83                  |
| 22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500 .....  | 2,513.06                  | 382.83                  |
| <b>22 34 36 13-0027 Removal And Reinstallation Of Water Heater (22 34 36 13)</b><br>Note: Includes storage and cleaning.  |                           |                         |
| 22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon .....   | 696.06                    |                         |
| 22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon .....   | 1,840.52                  |                         |
| <b>22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters (22 34 36)</b>  |                           |                         |
| <b>22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) (22 34 36 19)</b><br>Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent. |                           |                         |
| 22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100).....   | 5,558.03                  | 459.39                  |
| 22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120) .....   | 7,862.23                  | 459.39                  |
| 22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154) .....   | 9,577.26                  | 535.96                  |
| 22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180) .....   | 9,993.29                  | 612.52                  |
| 22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199) .....   | 10,039.68                 | 612.52                  |
| 22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200) .....  | 10,256.18                 | 612.52                  |
| 22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A) .....  | 12,017.92                 | 673.78                  |
| 22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250) .....  | 11,321.71                 | 689.09                  |
| 22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A) .....  | 13,887.44                 | 758.00                  |
| 22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275) .....  | 11,921.81                 | 842.22                  |
| 22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A) .....  | 14,564.55                 | 926.45                  |
| 22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310) .....   | 12,169.24                 | 842.22                  |
| 22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A) .....   | 14,719.19                 | 926.45                  |
| 22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366) .....   | 13,636.84                 | 918.79                  |
| 22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A) .....   | 16,001.07                 | 1,010.67                |
| 22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400) .....   | 16,435.90                 | 918.79                  |
| 22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A) .....   | 18,939.31                 | 1,010.67                |
| <b>22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) (22 34 36 19)</b><br>Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.   |                           |                         |
| 22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80) .....  | 4,351.81                  | 459.39                  |
| 22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100) .....  | 5,774.53                  | 459.39                  |
| 22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120) .....  | 6,949.83                  | 459.39                  |
| 22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A) .....  | 9,949.02                  | 505.34                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)  | 10,195.84                 | 535.96                  |
| 22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)  | 12,823.73                 | 589.55                  |
| 22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)  | 10,379.90                 | 612.52                  |
| 22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)  | 13,239.61                 | 673.78                  |
| 22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)  | 11,986.68                 | 689.09                  |
| 22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)  | 14,552.41                 | 758.00                  |
| 22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)  | 19,018.30                 | 926.45                  |
| 22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)  | 20,006.35                 | 1,010.67                |
| 22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)  | 22,989.31                 | 1,094.89                |
| <b>22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters (22 34 36)</b>  |                           |                         |
| <b>22 34 36 23-0001 Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) (22 34 36 23)</b>   |                           |                         |
| Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations. |                           |                         |
| 22 34 36 23-0002 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)  | 95,285.98                 | 1,909.62                |
| 22 34 36 23-0003 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)   | 115,186.86                | 2,028.97                |
| 22 34 36 23-0004 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)   | 139,932.29                | 2,148.32                |
| 22 34 36 23-0005 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)   | 167,258.26                | 2,267.67                |
| 22 34 36 23-0006 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)   | 175,315.05                | 2,387.02                |
| <b>22 34 36 23-0007 Gas Fired Volume Water Heater (Laars Mighty Therm) (22 34 36 23)</b>   |                           |                         |
| 22 34 36 23-0008 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)   | 12,151.17                 | 1,128.31                |
| 22 34 36 23-0009 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)   | 13,196.29                 | 1,269.35                |
| 22 34 36 23-0010 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)   | 15,303.33                 | 1,551.43                |
| 22 34 36 23-0011 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)   | 22,138.44                 | 1,692.47                |
| 22 34 36 23-0012 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)   | 24,381.73                 | 1,974.55                |
| 22 34 36 23-0013 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)   | 27,889.09                 | 2,256.63                |
| 22 34 36 23-0014 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)   | 30,822.07                 | 2,538.70                |
| 22 34 36 23-0015 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)   | 36,788.39                 | 2,820.78                |
| 22 34 36 23-0016 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)   | 38,183.60                 | 2,961.82                |
| 22 34 36 23-0017 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)   | 40,941.41                 | 3,102.86                |
| <b>22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters (22 34 36)</b>   |                           |                         |
| <b>22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters (22 34 36 26)</b>  |                           |                         |
| 22 34 36 26-0002 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)   | 37,903.26                 | 2,143.80                |
| 22 34 36 26-0003 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)   | 53,223.61                 | 2,369.45                |
| 22 34 36 26-0004 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)   | 57,710.34                 | 2,482.28                |
| 22 34 36 26-0005 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)   | 62,515.87                 | 2,707.95                |
| <b>22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36 26)</b>   |                           |                         |
| 22 34 36 26-0007 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)   | 33,728.93                 | 2,143.80                |
| 22 34 36 26-0008 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)   | 37,262.20                 | 2,369.45                |
| 22 34 36 26-0009 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)   | 40,684.20                 | 2,482.28                |
| 22 34 36 26-0010 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)   | 44,207.90                 | 2,707.95                |
| <b>22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36 26)</b>  |                           |                         |
| 22 34 36 26-0012 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 8,883.99                  | 1,015.48                |
| 22 34 36 26-0013 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 9,779.05                  | 1,128.31                |
| 22 34 36 26-0014 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 11,498.93                 | 1,353.97                |
| 22 34 36 26-0015 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 15,977.12                 | 1,410.39                |
| 22 34 36 26-0016 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 17,668.82                 | 1,692.47                |
| 22 34 36 26-0017 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 21,763.53                 | 2,030.97                |
| 22 34 36 26-0018 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 24,660.35                 | 2,143.80                |
| 22 34 36 26-0019 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 27,303.92                 | 2,313.04                |
| 22 34 36 26-0020 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 29,756.96                 | 2,425.87                |
| 22 34 36 26-0021 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)   | 31,879.01                 | 2,482.28                |
| <b>22 34 36 26-0022 Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters (22 34 36 26)</b>   |                           |                         |

**22 Plumbing****22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 34 36 26-0023 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific).....   | 24,670.83                 | 1,692.47                |
| 22 34 36 26-0024 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)..... | 27,291.84                 | 2,030.97                |
| 22 34 36 26-0025 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)..... | 32,608.82                 | 2,313.04                |
| 22 34 36 26-0026 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)..... | 33,635.57                 | 2,425.87                |
| 22 34 36 26-0027 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)..... | 35,154.62                 | 2,482.28                |
| <b>22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters (22 34 36 26)</b>             |                           |                         |
| 22 34 36 26-0029 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....       | 29,669.37                 | 2,030.97                |
| 22 34 36 26-0030 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....       | 35,763.67                 | 2,313.04                |
| 22 34 36 26-0031 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....       | 37,977.20                 | 2,482.28                |
| <b>22 34 46 Oil-Fired Domestic Water Heaters (22 34)</b>  |                           |                         |
| <b>22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)</b>   |                           |                         |
| <b>22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)</b>   |                           |                         |
| Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.           |                           |                         |
| 22 34 46 11-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E).....  | 2,310.80                  | 235.82                  |
| 22 34 46 11-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E).....   | 2,280.57                  | 235.82                  |
| 22 34 46 11-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES).....  | 2,377.70                  | 235.82                  |
| 22 34 46 11-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E).....   | 2,508.77                  | 241.94                  |
| 22 34 46 11-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES).....  | 3,174.68                  | 248.08                  |
| 22 34 46 11-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E).....   | 2,694.37                  | 248.08                  |
| <b>22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)</b>  |                           |                         |
| Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.           |                           |                         |
| 22 34 46 11-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E).....   | 3,741.09                  | 367.51                  |
| 22 34 46 11-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E).....   | 4,373.44                  | 367.51                  |
| 22 34 46 11-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E).....   | 4,397.77                  | 367.51                  |
| 22 34 46 11-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E).....   | 6,321.88                  | 490.02                  |
| 22 34 46 11-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E).....  | 8,653.50                  | 612.52                  |
| 22 34 46 11-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E).....  | 10,862.40                 | 673.78                  |
| <b>22 35 Domestic Water Heat Exchangers (22 30)</b>   |                           |                         |
| <b>22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)</b>   |                           |                         |
| <b>22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)</b>   |                           |                         |
| <b>22 35 23 13-0001 Steam Driven Water Heaters (22 35 23 13)</b>  |                           |                         |
| <b>22 35 23 13-0002 Constant Flow (22 35 23 13-0001)</b>  |                           |                         |
| 22 35 23 13-0003 EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow.....  | 6,651.81                  | 765.66                  |
| 22 35 23 13-0004 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow.....  | 8,298.00                  | 938.24                  |
| 22 35 23 13-0005 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow.....   | 10,646.84                 | 1,227.04                |
| 22 35 23 13-0006 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow.....   | 14,434.11                 | 1,709.10                |
| 22 35 23 13-0007 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow.....   | 21,461.87                 | 2,814.86                |
| 22 35 23 13-0008 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow.....  | 23,458.04                 | 3,190.19                |
| 22 35 23 13-0009 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow.....  | 30,501.23                 | 3,680.97                |
| 22 35 23 13-0010 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow.....  | 36,655.83                 | 4,350.31                |
| <b>22 35 23 13-0011 Variable Flow (22 35 23 13-0001)</b>  |                           |                         |
| 22 35 23 13-0012 EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow.....  | 10,210.24                 | 1,493.03                |
| 22 35 23 13-0013 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow.....  | 11,645.05                 | 1,823.02                |
| 22 35 23 13-0014 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow.....   | 14,872.60                 | 2,357.30                |
| 22 35 23 13-0015 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow.....   | 19,614.34                 | 3,288.96                |
| 22 35 23 13-0016 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow.....   | 29,600.71                 | 5,500.47                |
| 22 35 23 13-0017 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow.....  | 35,669.14                 | 6,057.42                |
| 22 35 23 13-0018 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow.....  | 41,359.02                 | 7,089.37                |
| 22 35 23 13-0019 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow.....  | 52,090.88                 | 8,469.70                |

**22 40 Plumbing Fixtures (22)**

Note: The following Energy Policy Act Flow Rates Requirements superseded flow rates standards listed in section. Plumbing fixtures and trim should not exceed the maximum flow rates set forth in The Energy Policy Act 92. lavatory faucets - 2.5 gal/min, lavatory replacement aerators - 2.5 gal/min, kitchen faucets - 2.5 gal/min, kitchen replacement aerators - 2.5 gal/min, metering faucets - 0.25 gal/cycle, gravity tank-type toilets - 1.6 gal/flush, flushometer tank toilets - 1.6 gal/flush, electromechanical hydraulic toilets - 1.6 gal/flush, blowdown toilets - 3.5 gal/flush, urinals - 1.0 gal/flush.



|                                      |              |           |
|--------------------------------------|--------------|-----------|
| <b>Plumbing</b>                      | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>             | <b>22 40</b> |           |
| <b>Residential Plumbing Fixtures</b> | <b>22 41</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**22 41 Residential Plumbing Fixtures** (22 40)

**22 41 39 Residential Faucets, Supplies, and Trim** (22 41)

**22 41 39 00-0001 Residential Kitchen Faucets** (22 41 39)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 22 41 39 00-0002 | EA | Chrome Single Handle Kitchen Faucet (Delta 100LF-WF) .....  | 208.27 | 70.49 |
| 22 41 39 00-0003 | EA | Chrome Single Handle Kitchen Faucet With Spray (Delta 400LF-WF).....  | 234.73 | 70.49 |
| 22 41 39 00-0004 | EA | Chrome Single Handle Kitchen Faucet With Integrated Spray (Delta 300LF-WF).....                               | 234.73 | 70.49 |
| 22 41 39 00-0005 | EA | Chrome Two Handle Kitchen Faucet, Three Hole Installation 8"Center (Delta 2102LF-LHP+H215).....               | 227.42 | 70.49 |
| 22 41 39 00-0006 | EA | Chrome Two Handle Kitchen Faucet With Spray, Three Hole Installation, 8" Center (Delta 2402LF-LHP+H215) ..... | 241.64 | 70.49 |

**22 41 39 00-0007 Residential Lavatory Faucets** (22 41 39)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 22 41 39 00-0008 | EA | Chrome, Single Acrylic Handle, Bath Faucet (Delta 502-DST).....          | 182.94 | 50.75 |
|                  |    | <i>For Faucet With Brass Pop-Up, Add</i>                                 | 11.00  |       |
| 22 41 39 00-0009 | EA | Chrome, Single Lever Handle, Lavatory Faucet (Delta 500-WF).....         | 182.94 | 50.75 |
|                  |    | <i>For Faucet With Brass Pop-Up, Add</i>                                 | 11.00  |       |
| 22 41 39 00-0010 | EA | Chrome, Two Handle, Bath Faucet With Acrylic Handles (Delta 2502LF)..... | 139.42 | 50.75 |
|                  |    | <i>For Faucet With Brass Pop-Up, Add</i>                                 | 16.50  |       |
|                  |    | <i>For Faucet With Plastic Pop-Up, Add</i>                               | 14.00  |       |

**22 41 39 00-0011 Residential Bath And Shower Faucets** (22 41 39)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 22 41 39 00-0012 | EA | Single Lever Handle, Chrome Shower Only, Pressure Balanced/Anti-Scald Valve (American Standard T675.501).....     | 235.51 | 61.19 |
|                  |    | <i>For Faucet With Polished Nickel Or Brass Finish, Add</i>   | 25.00  |       |
| 22 41 39 00-0013 | EA | Single Lever Handle, Chrome Bath And Shower, Pressure Balanced/Anti-Scald Valve (American Standard T675.502)..... | 271.71 | 61.19 |
|                  |    | <i>For Faucet With Polished Nickel Or Brass Finish, Add</i>   | 25.00  |       |
| 22 41 39 00-0014 | EA | Two-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3275).....                 | 219.73 | 61.19 |
|                  |    | <i>For Faucet With Polished Nickel Or Brass Finish, Add</i>   | 75.00  |       |
|                  |    | <i>For Faucet With Lever Handles, Add</i>   | 8.10   |       |
| 22 41 39 00-0015 | EA | Three-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3375).....               | 239.22 | 61.19 |
|                  |    | <i>For Faucet With Polished Nickel Or Brass Finish, Add</i>   | 75.00  |       |
|                  |    | <i>For Faucet With Lever Handles, Add</i>   | 8.10   |       |
| 22 41 39 00-0016 | EA | Hand Shower With Hose And 25" Slide Bar (American Standard 1662.602).....   | 257.56 | 38.28 |
| 22 41 39 00-0017 | EA | Wall Mount, Hand Shower With Hose (Delta 55011).....  | 218.80 | 38.28 |
| 22 41 39 00-0018 | EA | Wall Mount, Hand Shower Unit With Hose (Delta Faucet 62001 DS).....   | 330.77 | 38.28 |

**22 41 39 00-0019 Residential Laundry Faucets** (22 41 39)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 22 41 39 00-0020 | EA | Stream Straightener Nozzle Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2123LF) ..... | 160.43 | 45.02 |
|------------------|----|---|--------|-------|

**22 41 39 00-0021 Residential Laundry/Wash Basin Faucets** (22 41 39)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 22 41 39 00-0022 | EA | Hose Thread Spout Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF) .....                            | 161.52 | 45.02 |
| 22 41 39 00-0023 | EA | Hose Thread Spout With Vacuum Breaker Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF+RP12503)..... | 222.32 | 49.62 |

**22 41 39 00-0024 Other Residential Faucets** (22 41 39)

|                  |    |   |       |       |
|------------------|----|---|-------|-------|
| 22 41 39 00-0025 | EA | Sillcock, Compact, Brass, IPS Or Copper To Hose ..... | 47.80 | 11.49 |
|------------------|----|---|-------|-------|

**22 42 Commercial Plumbing Fixtures** (22 40)

Note: Prices are for commercial grade unless otherwise indicated. Includes final connection and all associated trim (seat, supply stop and line, wax seal, valve). Excludes rough-in within the wall and carrier.

**22 42 13 Commercial Water Closets, Urinals, and Bidets** (22 42)

**22 42 13 13 Commercial Water Closets** (22 42 13)

**22 42 13 13-0001 Vitreous China Water Closets** (22 42 13 13)

Note: With a 2" ball pass.

**22 42 13 13-0002 Floor Mounted Elongated Vitreous China Water Closets** (22 42 13 13-0001)

Note: Includes wax seal and toilet seat. Excludes flush valve.

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 22 42 13 13-0003 | EA | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Madera™).....   | 809.23   | 146.62 |
| 22 42 13 13-0004 | EA | Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Priolo™).....  | 942.33   | 146.62 |
| 22 42 13 13-0005 | EA | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Yorkville™) .....  | 1,184.82 | 146.62 |
| 22 42 13 13-0006 | EA | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Cadet®) .....   | 1,072.37 | 146.62 |
| 22 42 13 13-0007 | EA | 1 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Compact Cadet®) .....  | 1,008.88 | 146.62 |
| 22 42 13 13-0008 | EA | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet With Concealed Trapway (American Standard Cadet® 3 FloWise® RIGHT HEIGHT®) ..... | 1,013.25 | 146.62 |
| 22 42 13 13-0009 | EA | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Kohler® Wellcome™) .....  | 799.48   | 146.62 |
| 22 42 13 13-0010 | EA | 1.28 GPF Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Toto® CT705E).....   | 848.49   | 146.62 |

**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 22 42 13 13-0011 |     |     | <b>Wall Hung Elongated Vitreous China Water Closets</b> (22 42 13 13-0001)<br>Note: Includes wax seal and toilet seat. Excludes flush valve.  |                        |                      |
| 22 42 13 13-0012 | EA  |     | Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard AFWall®).....  | 943.95                 | 180.45               |
| 22 42 13 13-0013 | EA  |     | Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard AFWall® ADA Retrofit).....                                 | 1,137.56               | 180.45               |
| 22 42 13 13-0014 | EA  |     | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Glenwall™).....                        | 1,400.71               | 180.45               |
| 22 42 13 13-0015 | EA  |     | Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Kingston™).....  | 947.13                 | 180.45               |
| 22 42 13 13-0016 | EA  |     | Flush Valve Type, Blow Out, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Stratton™).....  | 1,364.91               | 180.45               |
| 22 42 13 13-0017 | EA  |     | Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT708E Or CT708EV).....  | 1,032.52               | 180.45               |
| 22 42 13 13-0018 | EA  |     | Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn Z5615-BWL).....   | 899.61                 | 180.45               |
| 22 42 13 13-0019 | EA  |     | Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Sloan ST-2459).....  | 938.12                 | 180.45               |
| 22 42 13 13-0020 |     |     | <b>Floor Mounted Elongated Handicapped Water Closets</b> (22 42 13 13-0001)<br>Note: Includes wax seal and toilet seat. Excludes flush valve.   |                        |                      |
| 22 42 13 13-0021 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Madera™ ADA).....  | 818.90                 | 146.62               |
| 22 42 13 13-0022 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Colorado Right Height®).....                             | 835.73                 | 146.62               |
| 22 42 13 13-0023 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Right Width™ Right Height®).....                         | 909.93                 | 146.62               |
| 22 42 13 13-0024 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Huron).....   | 1,001.72               | 146.62               |
| 22 42 13 13-0025 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Priolo® ADA).....   | 997.90                 | 146.62               |
| 22 42 13 13-0026 | EA  |     | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Back Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Yorkville™ ADA).....                  | 1,290.88               | 146.62               |
| 22 42 13 13-0027 | EA  |     | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Cadet Right Height™ ADA).....        | 1,107.29               | 146.62               |
| 22 42 13 13-0028 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT705ELN).....   | 894.48                 | 146.62               |
| 22 42 13 13-0029 | EA  |     | 2 Piece Tank Type, High Efficiency Water Closet Floor Mounted, Elongated, (Sterling 402077) With Open-Front Seat (Kohler K-4650).....   | 1,006.97               | 146.62               |
| 22 42 13 13-0030 | EA  |     | 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler Highline™ ADA K-3519).....                      | 1,130.34               | 146.62               |
| 22 42 13 13-0031 | EA  |     | 2 Piece Tank Type, Dual-Flush 1.1 And 1.6 GPF, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Vortens Vienna ELX-DF 3113-3436).....                     | 907.54                 | 146.62               |
| 22 42 13 13-0032 | EA  |     | 2 Piece Tank Type, High Efficiency Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Niagara Stealth™).....  | 886.90                 | 146.62               |
| 22 42 13 13-0033 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn HET Z5667-BWL).....   | 855.87                 | 146.62               |
| 22 42 13 13-0034 |     |     | <b>Floor Mounted, 10" High Bowl, Children's Height Vitreous China Water Closets</b> (22 42 13 13-0001)<br>Note: Includes wax seal and toilet seat. Excludes flush valve.                          |                        |                      |
| 22 42 13 13-0035 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Elongated Vitreous China Water Closet (Kohler® Primary™).....  | 903.97                 | 146.62               |
| 22 42 13 13-0036 | EA  |     | Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....                        | 827.30                 | 146.62               |
| 22 42 13 13-0037 | EA  |     | 2 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....                       | 946.65                 | 146.62               |
| 22 42 13 13-0038 |     |     | <b>Floor Mounted Round Bowl Vitreous China Water Closets</b> (22 42 13 13-0001)   |                        |                      |
| 22 42 13 13-0039 | EA  |     | 2 Piece Tank Type, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Toto® CST715) With SoftClose® Seat (Toto® SS113).....  | 873.63                 | 146.62               |
| 22 42 13 13-0040 | EA  |     | 2 Piece Tank Type, Dual Flush, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Vortens 3208-3412).....  | 893.93                 | 146.62               |
| 22 42 13 13-0041 |     |     | <b>Stainless Steel Water Closets</b> (22 42 13 13)  |                        |                      |
| 22 42 13 13-0042 | EA  |     | Wall Hung Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2105-T-1-HS).....   | 3,676.94               | 317.21               |
| 22 42 13 13-0043 | EA  |     | Floor Mounted Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2120-T-3-HS).....   | 3,865.50               | 317.21               |
| 22 42 13 13-0044 |     |     | <b>Water Closet Carriers</b> (22 42 13 13)  |                        |                      |
| 22 42 13 13-0045 |     |     | <b>Pipe Grip Adaptor Type, Water Closet Carriers</b> (22 42 13 13-0044)<br>Note: Includes coated cast iron construction, plated hardware and adjustable feet. Excludes waste piping and fittings. |                        |                      |
| 22 42 13 13-0046 | EA  |     | Pipe Grip Adaptor Type, Water Closet Carrier.....   | 634.65                 | 74.44                |



|  |                                     |              |
|--|-------------------------------------|--------------|
|  | <b>Plumbing</b>                     | <b>22</b>    |
|  | <b>Plumbing Fixtures</b>            | <b>22 40</b> |
|  | <b>Commercial Plumbing Fixtures</b> | <b>22 42</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 42 13 13-0047</b> <b>No-Hub, Water Closet Carriers</b> <small>(22 42 13 13-0044)</small>   |                           |                         |
| Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot. |                           |                         |
| 22 42 13 13-0048    EA    Vertical Close With Offset, No-Hub, Single Water Closet Carrier .....  | 953.74                    | 74.44                   |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -78.30                    |                         |
| For Positioning Frame, Add   | 53.36                     |                         |
| For Supply Pipe Support, Add   | 54.53                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Auxiliary Inlet, Add   | 230.96                    |                         |
| For Special Duty 500 LB Carrier, Add   | 371.68                    |                         |
| 22 42 13 13-0049    EA    Vertical Close On Stack, No-Hub, Single Water Closet Carrier .....   | 953.74                    | 74.44                   |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -78.30                    |                         |
| For Positioning Frame, Add   | 53.36                     |                         |
| For Supply Pipe Support, Add   | 54.53                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Auxiliary Inlet, Add   | 230.96                    |                         |
| For Special Duty 500 LB Carrier, Add   | 371.68                    |                         |
| 22 42 13 13-0050    EA    Horizontal Adjustable, No-Hub, Single Water Closet Carrier .....   | 1,036.72                  | 74.44                   |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -78.30                    |                         |
| For Positioning Frame, Add   | 53.36                     |                         |
| For Supply Pipe Support, Add   | 54.53                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Auxiliary Inlet, Add   | 230.96                    |                         |
| For Horizontal No Hub Cast Long Barrel, Add  | 231.78                    |                         |
| For Carrier For Wide Chase Installations, Add  | 314.29                    |                         |
| For Special Duty 1,000 LB Carrier, Add   | 371.69                    |                         |
| 22 42 13 13-0051    EA    Vertical Adjustable On Stack, No-Hub, Single Water Closet Carrier .....  | 1,143.08                  | 74.44                   |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -78.30                    |                         |
| For Positioning Frame, Add   | 53.36                     |                         |
| For Supply Pipe Support, Add   | 54.53                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For 4" Branch, Add   | 179.19                    |                         |
| For Auxiliary Inlet, Add   | 230.96                    |                         |
| For Carrier For Wide Chase Installations, Add  | 314.29                    |                         |
| For Double 4" Branches, Add  | 359.52                    |                         |
| For Special Duty 1,000 LB Carrier, Add   | 371.69                    |                         |
| 22 42 13 13-0052    EA    Vertical Close With Offset, No-Hub, Double Water Closet (Back To Back) Carrier .....   | 1,577.25                  | 109.26                  |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -156.59                   |                         |
| For Positioning Frame, Add   | 117.29                    |                         |
| For Supply Pipe Support, Add   | 119.63                    |                         |
| For Vandal Proof Trim, Add   | 133.26                    |                         |
| For Auxiliary Inlet, Add   | 252.11                    |                         |
| For Special Duty 500 LB Carrier, Add   | 743.35                    |                         |
| 22 42 13 13-0053    EA    Vertical Close On Stack, No-Hub, Double Water Closet (Back To Back) Carrier .....  | 1,619.34                  | 109.26                  |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -156.59                   |                         |
| For Positioning Frame, Add   | 117.29                    |                         |
| For Supply Pipe Support, Add   | 119.63                    |                         |
| For Vandal Proof Trim, Add   | 133.26                    |                         |
| For Auxiliary Inlet, Add   | 252.11                    |                         |
| For Special Duty 500 LB Carrier, Add   | 743.35                    |                         |
| 22 42 13 13-0054    EA    Vertical Adjustable On Stack, No-Hub, Double Water Closet (Back To Back) Carrier .....   | 1,954.78                  | 109.26                  |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -156.59                   |                         |
| For Positioning Frame, Add   | 117.29                    |                         |
| For Supply Pipe Support, Add   | 119.63                    |                         |
| For Vandal Proof Trim, Add   | 133.26                    |                         |
| For 4" Branch, Add   | 189.76                    |                         |
| For Auxiliary Inlet, Add   | 252.11                    |                         |
| For Double 4" Branches, Add  | 380.67                    |                         |
| For Carrier For Wide Chase Installations, Add  | 692.04                    |                         |
| For Special Duty 1,000 LB Carrier, Add   | 743.37                    |                         |
| 22 42 13 13-0055    EA    Horizontal Adjustable, No-Hub, Double Water Closet (Back To Back) Carrier .....  | 1,844.91                  | 109.26                  |
| For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct   | -156.59                   |                         |
| For Positioning Frame, Add   | 117.29                    |                         |
| For Supply Pipe Support, Add   | 119.63                    |                         |
| For Vandal Proof Trim, Add   | 133.26                    |                         |
| For Horizontal No Hub Cast Long Barrel, Add  | 242.35                    |                         |
| For Carrier For Wide Chase Installations, Add  | 692.04                    |                         |
| For Special Duty 1,000 LB Carrier, Add   | 743.37                    |                         |
| <b>22 42 13 13-0056</b> <b>Hub And Spigot, Water Closet Carriers</b> <small>(22 42 13 13-0044)</small>   |                           |                         |
| Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot. |                           |                         |
| 22 42 13 13-0057    EA    Vertical Close With Offset, Hub And Spigot, Single Water Closet Carrier .....  | 1,093.77                  | 74.44                   |
| For Positioning Frame, Add   | 53.36                     |                         |
| For Supply Pipe Support, Add   | 54.53                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Hanger Type Closet Adapter, Add  | 167.14                    |                         |
| For Auxiliary Inlet, Add   | 230.96                    |                         |
| 22 42 13 13-0058    EA    Vertical Close On Stack, Hub And Spigot, Single Water Closet Carrier .....   | 953.74                    | 74.44                   |
| For Positioning Frame, Add   | 53.36                     |                         |
| For Supply Pipe Support, Add   | 54.53                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Auxiliary Inlet, Add   | 230.96                    |                         |
| For Special Duty 500 LB Carrier, Add   | 371.68                    |                         |



**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 42 13 13-0059 EA Vertical Adjustable On Stack, Hub And Spigot, Single Water Closet Carrier .....   | 1,182.82                  | 74.44                   |
| <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>   | -78.30                    |                         |
| <i>For Positioning Frame, Add</i>   | 53.36                     |                         |
| <i>For Supply Pipe Support, Add</i>   | 54.53                     |                         |
| <i>For Vandal Proof Trim, Add</i>   | 66.63                     |                         |
| <i>For 4" Branch, Add</i>   | 179.19                    |                         |
| <i>For Auxiliary Inlet, Add</i>   | 230.96                    |                         |
| <i>For Carrier For Wide Chase Installations, Add</i>  | 314.29                    |                         |
| <i>For Double 4" Branches, Add</i>  | 359.52                    |                         |
| <i>For Special Duty 1,000 LB Carrier, Add</i>   | 371.69                    |                         |
| 22 42 13 13-0060 EA Vertical Close With Offset, Hub And Spigot, Double Water Closet (Back To Back) Carrier .....                                | 1,816.84                  | 109.26                  |
| <i>For Positioning Frame, Add</i>   | 117.29                    |                         |
| <i>For Supply Pipe Support, Add</i>   | 119.63                    |                         |
| <i>For Vandal Proof Trim, Add</i>   | 133.26                    |                         |
| <i>For Auxiliary Inlet, Add</i>   | 252.11                    |                         |
| <i>For Hanger Type Closet Adapter, Add</i>  | 334.28                    |                         |
| 22 42 13 13-0061 EA Vertical Adjustable On Stack, Hub And Spigot, Double Water Closet (Back To Back) Carrier .....                              | 1,994.52                  | 109.26                  |
| <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>   | -156.59                   |                         |
| <i>For Positioning Frame, Add</i>   | 117.29                    |                         |
| <i>For Supply Pipe Support, Add</i>   | 119.63                    |                         |
| <i>For Vandal Proof Trim, Add</i>   | 133.26                    |                         |
| <i>For 4" Branch, Add</i>   | 189.76                    |                         |
| <i>For Auxiliary Inlet, Add</i>   | 252.11                    |                         |
| <i>For Double 4" Branches, Add</i>  | 380.67                    |                         |
| <i>For Carrier For Wide Chase Installations, Add</i>  | 692.04                    |                         |
| <i>For Special Duty 1,000 LB Carrier, Add</i>   | 743.37                    |                         |
| <b>22 42 13 13-0062 Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Water Closet Carriers</b>  |                           |                         |
| <small>(22 42 13 13-0044)</small>   |                           |                         |
| Note: Includes coated cast iron construction, plastic fitting adaptor with extension and plated hardware.                                       |                           |                         |
| 22 42 13 13-0063 EA Vertical On Stack, Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Single Water Closet Carrier .....                     | 749.19                    | 74.44                   |
| <i>For Positioning Frame, Add</i>   | 53.36                     |                         |
| <i>For Supply Pipe Support, Add</i>   | 54.53                     |                         |
| <i>For Vandal Proof Trim, Add</i>   | 66.63                     |                         |
| <i>For Hanger Type Closet Adapter, Add</i>  | 167.14                    |                         |
| <b>22 42 13 13-0064 Institutional Water Closet Carriers</b> <small>(22 42 13 13-0044)</small>   |                           |                         |
| Note: Includes coated cast iron construction, ABS extension with integral test cap, buttress feet, plated hardware and neoprene fixture gasket. |                           |                         |
| 22 42 13 13-0065 EA Vertical On Stack, No-Hub, 90 Degree Institutional, Double Waste Fitting With Vent And Carrier, Water Closet Carrier .....  | 2,536.85                  | 109.26                  |
| <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>   | -156.59                   |                         |
| <i>For Positioning Frame, Add</i>   | 117.29                    |                         |
| <i>For Supply Pipe Support, Add</i>   | 119.63                    |                         |
| <i>For Vandal Proof Trim, Add</i>   | 133.26                    |                         |
| <i>For Auxiliary Inlet, Add</i>   | 252.11                    |                         |
| <b>22 42 13 13-0066 Removal And Reinstallation Of Fixtures And Trim</b> <small>(22 42 13 13)</small>  |                           |                         |
| Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.   |                           |                         |
| 22 42 13 13-0067 EA Removal And Reinstallation Of Wall Hung Water Closet With Tank .....  | 643.85                    |                         |
| 22 42 13 13-0068 EA Removal And Reinstallation Of Wall Hung Water Closet With Flush Valve .....   | 643.85                    |                         |
| 22 42 13 13-0069 EA Removal And Reinstallation Of Floor Mount Water Closet With Tank .....  | 495.04                    |                         |
| 22 42 13 13-0070 EA Removal And Reinstallation Of Floor Mount Water Closet With Flush Valve .....   | 495.04                    |                         |
| <b>22 42 13 16 Commercial Urinals</b> <small>(22 42 13)</small>   |                           |                         |
| <b>22 42 13 16-0001 Vitreous China Urinals</b> <small>(22 42 13 16)</small>   |                           |                         |
| Note: Excludes flush valve unless indicated otherwise.  |                           |                         |
| <b>22 42 13 16-0002 Wall Hung Urinals</b> <small>(22 42 13 16-0001)</small>   |                           |                         |
| 22 42 13 16-0003 EA Wall Hung Washout, Vitreous China Urinal (American Standard Maybrook™) .....  | 735.16                    | 150.85                  |
| 22 42 13 16-0004 EA Wall Hung, Washout, Vitreous China Urinal With Top Spud (American Standard Washbrook®) .....                                | 860.85                    | 150.85                  |
| 22 42 13 16-0005 EA Wall Hung, Washout, Vitreous China Urinal With Back Spud (American Standard Washbrook®) .....                               | 887.13                    | 150.85                  |
| 22 42 13 16-0006 EA Wall Hung, Blowout, Vitreous China Urinal (American Standard Lynbrook™) .....   | 925.74                    | 150.85                  |
| 22 42 13 16-0007 EA Wall Hung Siphon Jet, Vitreous China Urinal (American Standard Trimbrook™) .....  | 858.80                    | 150.85                  |
| 22 42 13 16-0008 EA Wall Hung, Siphon Jet, Vitreous China Urinal (American Standard Allbrook™) .....  | 752.85                    | 150.85                  |
| 22 42 13 16-0009 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT447E Or UT447EV) .....   | 877.26                    | 150.85                  |
| 22 42 13 16-0010 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT104E Or UT104EV) .....   | 775.69                    | 150.85                  |
| 22 42 13 16-0011 EA Wall Hung, Washout, Vitreous China Urinal (Zurn Z5798) .....  | 825.05                    | 150.85                  |
| 22 42 13 16-0012 EA Wall Hung, Washout, 0.125 To 0.5 GPF, HEU, Vitreous China Urinal (Sloan SU-1009-A) .....                                    | 768.43                    | 150.85                  |
| 22 42 13 16-0013 EA Wall Hung, Washout, 1.0 GPF, HEU, Vitreous China Urinal (Sloan SU-1006-A) .....   | 766.28                    | 150.85                  |
| <b>22 42 13 16-0014 Floor Mounted Urinals</b> <small>(22 42 13 16-0001)</small>   |                           |                         |
| 22 42 13 16-0015 EA Washout, Floor Mounted, Vitreous China Urinal (American Standard Stallbrook™) .....   | 1,127.22                  | 190.33                  |
| 22 42 13 16-0016 EA Washout, Floor Mounted, Vitreous China Urinal (Kohler® Branham™) .....  | 1,247.20                  | 190.33                  |
| 22 42 13 16-0017 EA Floor Mounted Urinal Seam Cover For 21" Centers (Kohler® K-4931) .....  | 328.30                    | 35.25                   |
| 22 42 13 16-0018 EA Floor Mounted Urinal Seam Cover For 24" Centers (Kohler® K-4932) .....  | 370.27                    | 35.25                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 42 13 16-0019</b> <b>Waterfree Urinals</b> <small>(22 42 13 16-0001)</small>  |                           |                         |
| 22 42 13 16-0020    EA    Waterfree, Wall Hung, Vitreous China Urinal (American Standard Large FloWise® Flush-Free).....                | 730.18                    | 105.74                  |
| For Colored Fixtures, Add   | 66.90                     |                         |
| For >1, Deduct  | -43.06                    |                         |
| 22 42 13 16-0021    EA    Waterfree, Wall Hung, Vitreous China Urinal (SLOAN WES-1000).....   | 1,293.98                  | 105.74                  |
| For Colored Fixtures, Add   | 66.90                     |                         |
| For >1, Deduct  | -107.33                   |                         |
| 22 42 13 16-0022    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-2000).....  | 1,126.76                  | 105.74                  |
| For Colored Fixtures, Add   | 66.90                     |                         |
| For >1, Deduct  | -88.27                    |                         |
| 22 42 13 16-0023    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-4000).....  | 884.84                    | 105.74                  |
| For Colored Fixtures, Add   | 66.90                     |                         |
| For >1, Deduct  | -60.69                    |                         |
| 22 42 13 16-0024    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-5000).....  | 884.84                    | 105.74                  |
| For Colored Fixtures, Add   | 66.90                     |                         |
| For >1, Deduct  | -60.69                    |                         |
| 22 42 13 16-0025    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-7000).....  | 1,075.10                  | 105.74                  |
| For Colored Fixtures, Add   | 66.90                     |                         |
| For >1, Deduct  | -82.38                    |                         |
| 22 42 13 16-0026    EA    Waterfree, Wall Hung, Stainless Steel Urinal (Falcon F-9000).....   | 1,583.37                  | 105.74                  |
| For >1, Deduct  | -140.32                   |                         |
| <b>22 42 13 16-0027</b> <b>Stainless Steel Urinals</b> <small>(22 42 13 16)</small>   |                           |                         |
| 22 42 13 16-0028    EA    Wall Hung Urinal, Stainless Steel, Blowout Jet (Acorn 2160-T-1).....  | 3,783.01                  | 317.21                  |
| 22 42 13 16-0029    EA    5' Wall Hung Trough Urinal, Stainless Steel With Strainer And Washdown Pipe (Elkay EU6014C).....              | 4,892.43                  | 387.70                  |
| <b>22 42 13 16-0030</b> <b>Urinal Carriers</b> <small>(22 42 13 16)</small>   |                           |                         |
| <b>22 42 13 16-0031</b> <b>Floor Mounted, Urinal Carriers</b> <small>(22 42 13 16-0030)</small>   |                           |                         |
| Note: Includes adjustable supporting rods, structural uprights and welded feet.   |                           |                         |
| 22 42 13 16-0032    EA    Floor Mounted Hanger Plate Type, Single Urinal Carrier.....   | 619.23                    | 53.58                   |
| For Up To 4" Extension Sleeves And Hardware, Add  | 24.54                     |                         |
| 22 42 13 16-0033    EA    Floor Mounted Bearing Plate Type, Single Urinal Carrier.....  | 590.15                    | 53.58                   |
| For Up To 4" Extension Sleeves And Hardware, Add  | 24.54                     |                         |
| <b>22 42 13 16-0034</b> <b>Wall Mounted, Urinal Carriers</b> <small>(22 42 13 16-0030)</small>  |                           |                         |
| Note: Includes wall plate and adjustable supporting rods.   |                           |                         |
| 22 42 13 16-0035    EA    Wall Mounted Hanger Plate Type, Single Urinal Carrier.....  | 268.73                    | 53.58                   |
| For Up To 6-1/2" Extension Sleeves And Hardware, Add  | 24.54                     |                         |
| <b>22 42 13 16-0036</b> <b>Removal And Reinstallation Of Fixtures And Trim</b> <small>(22 42 13 16)</small>                             |                           |                         |
| Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.   |                           |                         |
| 22 42 13 16-0037    EA    Removal And Reinstallation Of Wall Hung Urinal With Flush Valve.....  | 642.25                    |                         |
| <b>22 42 16</b> <b>Commercial Lavatories and Sinks</b> <small>(22 42)</small>   |                           |                         |
| <b>22 42 16 13</b> <b>Commercial Lavatories</b> <small>(22 42 16)</small>   |                           |                         |
| <b>22 42 16 13-0001</b> <b>Lavatories</b> <small>(22 42 16 13)</small>  |                           |                         |
| Note: Includes trap, drain and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.                           |                           |                         |
| <b>22 42 16 13-0002</b> <b>Wall Hung Lavatories</b> <small>(22 42 16 13-0001)</small>   |                           |                         |
| 22 42 16 13-0003    EA    19" x 17" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™).....                   | 680.41                    | 94.45                   |
| 22 42 16 13-0004    EA    20" x 18" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™).....                   | 707.21                    | 94.45                   |
| 22 42 16 13-0005    EA    22" x 19" Porcelain Enameled Cast Iron Wall Hung Lavatory (Kohler® Hampton™).....                             | 857.36                    | 94.45                   |
| 22 42 16 13-0006    EA    18" x 16" Vitreous China Wall Hung Lavatory (American Standard Penlyn™).....                                  | 631.53                    | 94.45                   |
| 22 42 16 13-0007    EA    19" x 17" Vitreous China Wall Hung Lavatory (American Standard Declyn™).....                                  | 556.64                    | 94.45                   |
| 22 42 16 13-0008    EA    20" x 18" Vitreous China Wall Hung Lavatory (Kohler® Soho®).....  | 679.97                    | 94.45                   |
| 22 42 16 13-0009    EA    20" x 18" Vitreous China Wall Hung Lavatory (American Standard Roxalyn™).....                                 | 644.15                    | 94.45                   |
| 22 42 16 13-0010    EA    20" x 18" Vitreous China Wall Hung Lavatory (American Standard Lucerne™).....                                 | 578.71                    | 94.45                   |
| 22 42 16 13-0011    EA    27" x 20" Wheelchair Accessible, Vitreous China Wall Hung Lavatory (American Standard Wheel Chair Users)..... | 785.26                    | 94.45                   |
| <b>22 42 16 13-0012</b> <b>Countertop Lavatories</b> <small>(22 42 16 13-0001)</small>  |                           |                         |
| 22 42 16 13-0013    EA    20" x 18" Oval Vitreous China Countertop Lavatory (Kohler® Pennington®).....                                  | 662.59                    | 114.19                  |
| 22 42 16 13-0014    EA    21" x 18" Vitreous China Countertop Lavatory (American Standard Cadet™ Oval).....                             | 674.27                    | 114.19                  |
| 22 42 16 13-0015    EA    19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Farmington™).....                                   | 706.93                    | 114.19                  |
| 22 42 16 13-0016    EA    19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Ellington™).....                                    | 741.61                    | 114.19                  |
| 22 42 16 13-0017    EA    24" x 18" Enameled Cast Iron Countertop Lavatory (Kohler® Thoreau®).....                                      | 942.48                    | 123.35                  |
| <b>22 42 16 13-0018</b> <b>Undermount Lavatories</b> <small>(22 42 16 13-0001)</small>  |                           |                         |
| 22 42 16 13-0019    EA    15" x 12" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....                                 | 645.03                    | 114.19                  |
| 22 42 16 13-0020    EA    17" x 14" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....                                 | 612.82                    | 114.19                  |
| 22 42 16 13-0021    EA    19" x 16" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....                                 | 612.82                    | 114.19                  |
| 22 42 16 13-0022    EA    21" x 17" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....                                 | 652.05                    | 114.19                  |
| 22 42 16 13-0023    EA    15" x 12" Oval Vitreous China Undermount Lavatory (Kohler® Caxton®).....                                      | 629.16                    | 114.19                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 42 16 13-0024 EA 17" x 14" Oval Vitreous China Undermount Lavatory (Kohler® Caxton®).....  | 623.22                    | 114.19                  |
| 22 42 16 13-0025 EA 19" x 15" Oval Vitreous China Undermount Lavatory (Kohler® Caxton®).....  | 629.27                    | 114.19                  |
| 22 42 16 13-0026 EA 18" x 12" Rectangular Vitreous China Undermount Lavatory (Kohler® Ladena®).....   | 762.61                    | 114.19                  |
| 22 42 16 13-0027 EA 21" x 14" Rectangular Vitreous China Undermount Lavatory (Kohler® Ladena®).....   | 762.61                    | 114.19                  |
| <b>22 42 16 13-0028 Pedestal Lavatories (22 42 16 13-0001)</b>  |                           |                         |
| 22 42 16 13-0029 EA 19" x 24" x 35" High Vitreous China Pedestal Sink (American Standard Cadet™).....   | 808.90                    | 271.38                  |
| <b>22 42 16 13-0030 Cultured Marble Vanity Tops (22 42 16 13-0001)</b>  |                           |                         |
| Note: Includes predrilled holes for faucet.   |                           |                         |
| 22 42 16 13-0031 EA 25" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 461.42                    | 105.74                  |
| 22 42 16 13-0032 EA 31" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 521.52                    | 112.79                  |
| 22 42 16 13-0033 EA 37" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 628.25                    | 119.83                  |
| 22 42 16 13-0034 EA 49" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 859.17                    | 126.88                  |
| 22 42 16 13-0035 EA 25" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 495.31                    | 105.74                  |
| 22 42 16 13-0036 EA 31" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 531.07                    | 112.79                  |
| 22 42 16 13-0037 EA 37" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 684.64                    | 119.83                  |
| 22 42 16 13-0038 EA 43" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 745.98                    | 123.35                  |
| 22 42 16 13-0039 EA 49" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....   | 835.32                    | 126.88                  |
| <b>22 42 16 13-0040 Quartz Vanity Tops (22 42 16 13-0001)</b>   |                           |                         |
| Note: Includes predrilled holes for faucet.   |                           |                         |
| 22 42 16 13-0041 EA 25" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....  | 877.38                    | 105.74                  |
| 22 42 16 13-0042 EA 31" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....  | 916.25                    | 112.79                  |
| 22 42 16 13-0043 EA 37" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....  | 1,048.25                  | 119.83                  |
| 22 42 16 13-0044 EA 43" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....  | 1,057.00                  | 123.35                  |
| 22 42 16 13-0045 EA 49" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....  | 1,149.72                  | 126.88                  |
| 22 42 16 13-0046 EA 61" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks.....   | 1,522.30                  | 133.93                  |
| 22 42 16 13-0047 EA 73" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks.....   | 1,788.78                  | 140.96                  |
| 22 42 16 13-0048 EA 22" End Splash For Quartz Vanity Tops.....  | 49.00                     |                         |
| <b>22 42 16 13-0049 Solid Surface Vanity Tops (22 42 16 13-0001)</b>  |                           |                         |
| Note: Includes predrilled holes for faucet.   |                           |                         |
| 22 42 16 13-0050 EA 25" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 743.85                    | 105.74                  |
| 22 42 16 13-0051 EA 31" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 832.12                    | 112.79                  |
| 22 42 16 13-0052 EA 37" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 931.84                    | 119.83                  |
| 22 42 16 13-0053 EA 43" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 1,021.66                  | 123.35                  |
| 22 42 16 13-0054 EA 49" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 1,103.92                  | 126.88                  |
| 22 42 16 13-0055 EA 55" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 1,211.83                  | 130.40                  |
| 22 42 16 13-0056 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....   | 1,343.86                  | 133.93                  |
| 22 42 16 13-0057 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks.....  | 1,376.29                  | 133.93                  |
| 22 42 16 13-0058 EA 73" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks.....  | 1,483.60                  | 140.96                  |
| 22 42 16 13-0059 EA 22" End Splash For Solid Surface Vanity Tops.....   | 71.76                     |                         |
| <b>22 42 16 13-0060 Stainless Steel Lavatories (22 42 16 13-0001)</b>   |                           |                         |
| 22 42 16 13-0061 EA 18" x 15" Wall Mounted Lavatory, Stainless Steel (Acorn 1950-1).....  | 1,962.97                  | 246.72                  |
| <b>22 42 16 13-0062 Solid Surface Multi-Station Lavatory Systems (22 42 16 13-0001)</b>   |                           |                         |
| Note: ADA compliant. Includes integral faucets.   |                           |                         |
| 22 42 16 13-0063 EA 2 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-2)..... | 6,847.91                  | 183.20                  |
| For Integral Liquid Soap Dispenser, Add   | 171.00                    |                         |
| For Integral Photovoltaic Power Panels, Add   | 563.00                    |                         |
| 22 42 16 13-0064 EA 3 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-3)..... | 10,029.67                 | 183.20                  |
| For Integral Liquid Soap Dispenser, Add   | 171.00                    |                         |
| For Integral Photovoltaic Power Panels, Add   | 657.00                    |                         |
| 22 42 16 13-0065 EA 12" Length, Solid Surface Countertop Extension (Bradley MG-EXT-12).....   | 470.92                    | 61.07                   |
| 22 42 16 13-0066 EA 18" Length, Solid Surface Countertop Extension (Bradley MG-EXT-18).....   | 581.20                    | 61.07                   |
| 22 42 16 13-0067 EA 36" Length, Solid Surface Countertop Extension (Bradley MG-EXT-36).....   | 1,142.86                  | 61.07                   |
| <b>22 42 16 13-0068 Lavatory Carriers (22 42 16 13)</b>   |                           |                         |
| <b>22 42 16 13-0069 Floor Mounted, Lavatory Carriers (22 42 16 13-0068)</b>   |                           |                         |
| <b>22 42 16 13-0070 Floor Mounted Plate Type, Lavatory Carriers (22 42 16 13-0069)</b>  |                           |                         |
| Note: Includes adjustable supporting rods, structural uprights and welded feet.   |                           |                         |
| 22 42 16 13-0071 EA Floor Mounted Hanger Plate Type, Single Lavatory Carrier.....   | 619.23                    | 53.58                   |
| For Up To 4" Extension Sleeves And Hardware, Add  | 24.54                     |                         |
| For Valve Plate For Attaching To Upright, Add   | 91.15                     |                         |
| For Corner Carrier, Add   | 177.64                    |                         |
| 22 42 16 13-0072 EA Floor Mounted Bearing Plate Type, Single Lavatory Carrier.....  | 590.15                    | 53.58                   |
| For Up To 4" Extension Sleeves And Hardware, Add  | 24.54                     |                         |
| For Valve Plate For Attaching To Upright, Add   | 91.15                     |                         |



|                                     |              |           |
|-------------------------------------|--------------|-----------|
| <b>Plumbing</b>                     | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>            | <b>22 40</b> |           |
| <b>Commercial Plumbing Fixtures</b> | <b>22 42</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                                   | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|--|----------------------|
| 22 42 16 13-0073        | EA  |     | Floor Mounted Hanger Plate Type, Double Lavatory (Back To Back) Carrier .....<br><i>For Up To 4" Extension Sleeves And Hardware, Add</i><br><i>For Valve Plate For Attaching To Upright, Add</i>   | 668.46<br>49.08<br>182.30                                | 53.58                |
| 22 42 16 13-0074        | EA  |     | Floor Mounted Bearing Plate Type, Double Lavatory (Back To Back) Carrier .....<br><i>For Up To 4" Extension Sleeves And Hardware, Add</i><br><i>For Valve Plate For Attaching To Upright, Add</i>  | 758.46<br>49.08<br>182.30                                | 53.58                |
| <b>22 42 16 13-0075</b> |     |     | <b>Floor Mounted, Lavatory Carriers With Arms</b> (22 42 16 13-0069)<br>Note: Includes leveling and securing screws, structural uprights and welded feet.  |  |                      |
| 22 42 16 13-0076        | EA  |     | Floor Mounted, Single Lavatory Carrier With Concealed Arms.....<br><i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i><br><i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i><br><i>For Valve Plate For Attaching To Upright, Add</i><br><i>For 2" Chrome Plated Escutcheons, Add</i><br><i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>                | 793.75<br>24.54<br>33.90<br>93.97<br>82.98<br>150.77     | 63.44                |
| 22 42 16 13-0077        | EA  |     | Floor Mounted, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms .....<br><i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i><br><i>For Vandal Proof Trim, Add</i><br><i>For Valve Plate For Attaching To Upright, Add</i><br><i>For Heavy Duty Carrier, Add</i>   | 911.71<br>24.54<br>66.63<br>93.97<br>85.32               | 63.44                |
| 22 42 16 13-0078        | EA  |     | Floor Mounted, Double Lavatory (Back To Back) Carrier With Concealed Arms.....<br><i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i><br><i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i><br><i>For Valve Plate For Attaching To Upright, Add</i><br><i>For 2" Chrome Plated Escutcheons, Add</i><br><i>For 4" Or 6" Chrome Plated Escutcheons, Add</i> | 1,048.77<br>49.08<br>67.80<br>187.94<br>165.97<br>301.55 | 63.44                |
| 22 42 16 13-0079        | EA  |     | Floor Mounted, Double Lavatory (Back To Back) Carrier With Exposed Acid Resistant White Coated Arms .....<br><i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i><br><i>For Vandal Proof Trim, Add</i><br><i>For Valve Plate For Attaching To Upright, Add</i><br><i>For Heavy Duty Carrier, Add</i>  | 1,321.97<br>49.08<br>133.26<br>187.94<br>170.64          | 63.44                |
| 22 42 16 13-0080        |     |     | <b>Wall Mounted, Lavatory Carriers</b> (22 42 16 13-0068)  |  |                      |
| 22 42 16 13-0081        |     |     | <b>Wall Mounted Plate Type, Lavatory Carriers</b> (22 42 16 13-0080)<br>Note: Includes wall plate and adjustable supporting rods.  |  |                      |
| 22 42 16 13-0082        | EA  |     | Wall Mounted Hanger Plate Type, Single Lavatory Carrier .....<br><i>For Double Plate Carrier, Add</i>  | 268.73<br>73.61  | 53.58                |
| 22 42 16 13-0083        |     |     | <b>Wall Mounted Plate Type, Lavatory Carriers With Arms</b> (22 42 16 13-0080)<br>Note: Includes wall plate and leveling and securing screws.  |  |                      |
| 22 42 16 13-0084        | EA  |     | Wall Mounted Fixed Steel Plate Type, Single Lavatory Carrier With Concealed Arms.....<br><i>For Up To 4" Extension Sleeves And Hardware, Add</i><br><i>For 2" Chrome Plated Escutcheons, Add</i>   | 424.33<br>24.54<br>82.98                                 | 63.44                |
| 22 42 16 13-0085        | EA  |     | Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Concealed Arms.....<br><i>For Movable Mounting Brackets, Deduct</i><br><i>For Up To 4" Extension Sleeves And Hardware, Add</i><br><i>For 2" Chrome Plated Escutcheons, Add</i><br><i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>  | 489.78<br>-63.12<br>24.54<br>82.98<br>150.77             | 63.44                |
| 22 42 16 13-0086        | EA  |     | Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms.....<br><i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i><br><i>For Vandal Proof Trim, Add</i>   | 691.98<br>24.54<br>66.63                                 | 63.44                |
| 22 42 16 13-0087        |     |     | <b>Removal And Reinstallation Of Lavatory And Trim</b> (22 42 16 13)<br>Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.  |  |                      |
| 22 42 16 13-0088        | EA  |     | Removal And Reinstallation Of Wall Hung Lavatory With Faucet.....  | 414.65   |                      |
| <b>22 42 16 16</b>      |     |     | <b>Commercial Sinks</b> (22 42 16)   |  |                      |
| 22 42 16 16-0001        |     |     | <b>Sinks</b> (22 42 16 16)<br>Note: Includes drain, trap and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.  |  |                      |
| 22 42 16 16-0002        |     |     | <b>Kitchen Sinks</b> (22 42 16 16-0001)  |  |                      |
| 22 42 16 16-0003        | EA  |     | 25" x 22" x 8-3/4" Enameled Cast Iron Kitchen Sink, Single Bowl (Kohler® Mayfield®).....   | 854.52   | 132.52               |
| 22 42 16 16-0004        | EA  |     | 22" x 33" x 9-5/8" Enameled Cast Iron Kitchen Sink, Double Bowl (Kohler® Brookfield®).....   | 1,076.81   | 150.85               |
| 22 42 16 16-0005        | EA  |     | 15" x 17" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1517).....<br><i>For 18 Gauge, Add</i>  | 1,011.84<br>241.58                                       | 129.70               |
| 22 42 16 16-0006        | EA  |     | 17" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1722).....<br><i>For 18 Gauge, Add</i>  | 1,033.70<br>252.51                                       | 129.70               |
| 22 42 16 16-0007        | EA  |     | 22" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2222).....<br><i>For 18 Gauge, Add</i>  | 1,082.89<br>277.11                                       | 129.70               |
| 22 42 16 16-0008        | EA  |     | 25" x 22" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2522).....<br><i>For 18 Gauge, Add</i>  | 1,132.59<br>293.50                                       | 132.52               |
| 22 42 16 16-0009        | EA  |     | 31" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR3122).....<br><i>For 18 Gauge, Add</i>  | 1,401.37<br>400.99                                       | 150.85               |
| 22 42 16 16-0010        | EA  |     | 33" x 21" x 7-1/2" Stainless Steel Kitchen Sink, Double Bowl, 20 Gauge (Elkay PSR3321).....<br><i>For 18 Gauge, Add</i>  | 1,427.91<br>414.00                                       | 150.85               |
| 22 42 16 16-0011        | EA  |     | 33" x 22" x 8" Stainless Steel Kitchen Sink, Double Bowl, 18 Gauge (Elkay LR3322).....   | 1,776.79   | 150.85               |
| 22 42 16 16-0012        | EA  |     | 15" x 17" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR151710).....   | 1,366.18   | 129.70               |
| 22 42 16 16-0013        | EA  |     | 17" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR172210).....   | 1,390.77   | 129.70               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 42 16 16-0014 EA 22" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR222210)   | 1,452.71                  | 129.70                  |
| 22 42 16 16-0015 EA 25" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR252210)   | 1,541.58                  | 132.52                  |
| 22 42 16 16-0016 EA 31" x 22" x 11-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR312210)   | 1,846.80                  | 150.85                  |
| <b>22 42 16 16-0017 Undermount Kitchen Sinks (22 42 16 16-0001)</b>   |                           |                         |
| 22 42 16 16-0018 EA 21" x 15" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU2115) With Strainer (Elkay LK99)   | 1,234.94                  | 129.70                  |
| 22 42 16 16-0019 EA 21" x 15" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU211510) With Strainer (Elkay LK99)  | 1,232.28                  | 129.70                  |
| 22 42 16 16-0020 EA 21" x 15" x 7-1/2" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH2115) With Strainer (Elkay LK99)                                       | 1,244.05                  | 129.70                  |
| 22 42 16 16-0021 EA 21" x 15" x 10" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH211510) With Strainer (Elkay LK99)  | 1,305.99                  | 129.70                  |
| 22 42 16 16-0022 EA 21" x 15-3/4" x 4-3/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHAD2115) With Strainer (Elkay LK99)<br>Note: Available in 4-1/2", 5, or 5-1/2" depths. | 1,266.82                  | 129.70                  |
| 22 42 16 16-0023 EA 25" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF2520) With Strainer (Elkay LK99)   | 1,425.57                  | 129.70                  |
| 22 42 16 16-0024 EA 32" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF3320) With Strainer (Elkay LK99)   | 1,662.93                  | 129.70                  |
| 22 42 16 16-0025 EA 21" x 18" x 5-1/2" Deep, Single Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. US-ADA-1821-A)   | 1,037.56                  | 129.70                  |
| 22 42 16 16-0026 EA 32" x 18" x 5-1/2" Deep, Two Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. UD-ADA-1832-A)  | 1,304.07                  | 129.70                  |
| <b>22 42 16 16-0027 Multi-Station Wash Sink, Wall Mounted (22 42 16 16-0001)</b>  |                           |                         |
| Note: Includes concealed wall hanger, soap dish(s), strainer, supply lines and P-Trap. Excludes faucets.  |                           |                         |
| 22 42 16 16-0028 EA 36" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)  | 2,154.77                  | 229.09                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0029 EA 48" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)  | 2,796.23                  | 246.72                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0030 EA 60" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)  | 3,186.76                  | 264.34                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0031 EA 48" Wide, 2 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)  | 2,435.38                  | 176.23                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0032 EA 62" Wide, 3 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)  | 2,700.83                  | 193.84                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0033 EA 80" Wide, 4 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)  | 2,961.37                  | 211.47                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0034 EA 102" Wide, 5 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)   | 3,288.99                  | 237.91                  |
| Note: Excludes faucets.   |                           |                         |
| 22 42 16 16-0035 EA 27" Diameter, 2 Person, Stainless Steel, Sensor Operated Compact Wash Fountain  | 3,120.27                  | 387.70                  |
| Note: Includes sensor operated spray heads.   |                           |                         |
| <b>22 42 16 16-0036 Utility Or Laundry Sinks (22 42 16 16-0001)</b>   |                           |                         |
| 22 42 16 16-0037 EA 23" x 21" Molded Stone Single Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FL-1)   | 809.57                    | 150.85                  |
| 22 42 16 16-0038 EA 40" x 24" Molded Stone Double Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FLTD-II)  | 907.25                    | 150.85                  |
| 22 42 16 16-0039 EA 22" x 17" Molded Stone Single Laundry Sink, Drop-In (Fiat Products DL1)   | 807.45                    | 150.85                  |
| 22 42 16 16-0040 EA 24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210)   | 1,152.67                  | 150.85                  |
| 22 42 16 16-0041 EA 48" x 21" Enameled Cast Iron Double Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2220)   | 1,578.84                  | 169.18                  |
| <b>22 42 16 16-0042 Refinish Sink/Lavatory (22 42 16 16-0001)</b>   |                           |                         |
| 22 42 16 16-0043 EA Refinish Sink/Lavatory  | 315.92                    |                         |
| <b>22 42 16 16-0044 Service Sinks (22 42 16 16-0001)</b>  |                           |                         |
| 22 42 16 16-0045 EA 22" x 18" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Lakewell™)  | 1,144.42                  | 226.98                  |
| 22 42 16 16-0046 EA 24" x 20" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Akron™)   | 1,197.70                  | 226.98                  |
| 22 42 16 16-0047 EA 28" x 28" Enameled Cast Iron Floor Type Corner Service Sink With Removable Vinyl Coated Rim Guard (American Standard Florwell™)   | 1,504.25                  | 300.28                  |
| 22 42 16 16-0048 EA 12" x 12" x 10" Cast Iron Floor Sink With Dome Strainer And Full Grate (Zurn FD2377-PO3-F)  | 676.57                    | 211.47                  |
| 22 42 16 16-0049 EA 24" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB2424)                                   | 761.62                    | 211.47                  |
| 22 42 16 16-0050 EA 36" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB3624)                                   | 850.99                    | 253.77                  |
| 22 42 16 16-0051 EA 24" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2424-010)   | 724.12                    | 211.47                  |
| 22 42 16 16-0052 EA 36" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2436-010)   | 829.55                    | 253.77                  |
| 22 42 16 16-0053 EA 24" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-24)  | 1,079.50                  | 211.47                  |
| 22 42 16 16-0054 EA 36" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-3624)  | 1,329.45                  | 253.77                  |
| <b>22 42 16 16-0055 Stainless Steel Sink And Drainboard (22 42 16 16-0001)</b>  |                           |                         |
| 22 42 16 16-0056 EA Stainless Steel Sink With One 24" x 24" x 14" Depth Compartment And Drainboard, 14 Gauge Stainless Steel With Tubular Adjustable Legs (Advance Tabco 94-41-24-24L)          | 4,590.39                  | 352.45                  |



|                                     |              |           |
|-------------------------------------|--------------|-----------|
| <b>Plumbing</b>                     | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>            | <b>22 40</b> |           |
| <b>Commercial Plumbing Fixtures</b> | <b>22 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 42 16 16-0057 Sink Carriers <small>(22 42 16 16)</small>  |                           |                         |
| 22 42 16 16-0058 Floor Mounted, Sink Carriers <small>(22 42 16 16-0057)</small>  |                           |                         |
| Note: With support plates, adjustable coupling with 4" piping connection, mounting studs, structural uprights, welded feet and chrome plated trim. |                           |                         |
| 22 42 16 16-0059 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling.....                              | 890.98                    | 53.58                   |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Valve Plate For Attaching To Upright, Add  | 91.15                     |                         |
| 22 42 16 16-0060 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling And 4" x 2" Waste Fitting.....    | 1,174.55                  | 53.58                   |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| For Auxiliary Vent, Add  | 202.20                    |                         |
| 22 42 16 16-0061 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With Exposed Acid Resistant White Coated Arms.....            | 1,459.75                  | 53.58                   |
| For Up To 4" Extension Sleeves And Hardware, Add   | 50.26                     |                         |
| For Vandal Proof Trim, Add   | 66.63                     |                         |
| 22 42 16 16-0062 Removal And Reinstallation Of Sink And Trim <small>(22 42 16 16)</small>  |                           |                         |
| Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.  |                           |                         |
| 22 42 16 16-0063 EA Removal And Reinstallation Of Wall Hung Service Sink With Faucet.....  | 568.47                    |                         |
| <b>22 42 19 Commercial Bathtubs <small>(22 42)</small></b>   |                           |                         |
| 22 42 19 00-0001 Recessed Alcove Bathtubs <small>(22 42 19)</small>  |                           |                         |
| 22 42 19 00-0002 Porcelain Enameled Cast Iron, Recessed Alcove Bathtubs <small>(22 42 19 00-0001)</small>  |                           |                         |
| 22 42 19 00-0003 EA 54" x 30-1/4" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Seaforth™).....                            | 1,645.33                  | 391.92                  |
| 22 42 19 00-0004 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Mendota®).....                             | 1,435.53                  | 391.92                  |
| 22 42 19 00-0005 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®).....                          | 1,650.60                  | 391.92                  |
| 22 42 19 00-0006 EA 66" x 32" x 17", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Bellwether®).....                              | 2,072.55                  | 391.92                  |
| 22 42 19 00-0007 Porcelain Enameled Steel, Recessed Alcove Bathtubs <small>(22 42 19 00-0001)</small>  |                           |                         |
| 22 42 19 00-0008 EA 60" x 30" x 14-1/4", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Salem®).....                     | 829.43                    | 391.92                  |
| 22 42 19 00-0009 EA 60" x 30" x 16-5/8", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Solar®).....                     | 844.45                    | 391.92                  |
| 22 42 19 00-0010 Porcelain Finished Metal Alloy, Recessed Alcove Bathtubs <small>(22 42 19 00-0001)</small>  |                           |                         |
| 22 42 19 00-0011 EA 60" x 32" x 17-3/4", Porcelain Finished Metal Alloy, Recessed Alcove Bathtub (American Standard Cambridge™).....               | 1,140.22                  | 391.92                  |
| 22 42 19 00-0012 Acrylic, Recessed Alcove Bathtubs <small>(22 42 19 00-0001)</small>   |                           |                         |
| 22 42 19 00-0013 EA 60" x 32" x 19", Acrylic, Recessed Alcove Bathtub (Kohler® Archer®).....   | 1,168.63                  | 391.92                  |
| 22 42 19 00-0014 EA 60" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....   | 1,350.27                  | 391.92                  |
| 22 42 19 00-0015 EA 66" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....   | 1,373.73                  | 391.92                  |
| 22 42 19 00-0016 EA 72" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....   | 1,359.31                  | 391.92                  |
| 22 42 19 00-0017 EA 72" x 42" x 21", Acrylic, Recessed Alcove Bathtub (Kohler® Windward®).....   | 1,411.18                  | 391.92                  |
| 22 42 19 00-0018 Bathtub Refinishing <small>(22 42 19 00-0001)</small>   |                           |                         |
| 22 42 19 00-0019 EA Refinish Porcelain Finished Bathtub With Acrylic Urethane Enamel.....  | 767.68                    |                         |
| 22 42 19 00-0020 Tub And Shower Combinations <small>(22 42 19)</small>   |                           |                         |
| 22 42 19 00-0021 Acrylic Tub And Shower Combination <small>(22 42 19 00-0020)</small>  |                           |                         |
| 22 42 19 00-0022 EA 1 Piece, 60" x 32" x 72" Acrylic Tub And Shower (Delta 226032).....  | 1,364.35                  | 131.91                  |
| For 2 Piece Enclosure, Deduct  | -299.33                   |                         |
| 22 42 19 00-0023 Fiberglass Tub And Shower Combination <small>(22 42 19 00-0020)</small>   |                           |                         |
| 22 42 19 00-0024 EA 1 Piece 60" x 32" x 72" Fiberglass Tub And Shower (Aquatic 2603-SG).....   | 942.60                    | 131.91                  |
| 22 42 19 00-0025 EA 2 Piece 60" x 30" x 72" Fiberglass Tub And Shower (Aquatic 2603-2P).....   | 733.14                    | 87.93                   |
| 22 42 19 00-0026 EA 4 Piece 60" x 32" x 75-1/2" Fiberglass Tub And Shower (Aquatic 26030-4P).....  | 1,483.85                  | 199.08                  |
| 22 42 19 00-0027 EA 3 Piece Tub/Shower Surrounds, 32" x 72" Side Walls, 48" x 72" Back, (Swanstone SK-324872).....                                 | 3,495.61                  | 375.79                  |
| For 2 Piece Enclosure, Deduct  | -727.59                   |                         |
| <b>22 42 23 Commercial Showers <small>(22 42)</small></b>  |                           |                         |
| 22 42 23 00-0001 Shower Enclosures <small>(22 42 23)</small>   |                           |                         |
| Note: Includes precast concrete receptors. Excludes plumbing hook-up and door or curtain.  |                           |                         |
| 22 42 23 00-0002 Powder Coated Or Baked Enamel Steel Shower Enclosure <small>(22 42 23 00-0001)</small>  |                           |                         |
| 22 42 23 00-0003 EA 32" x 32" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....  | 1,831.66                  | 227.39                  |
| 22 42 23 00-0004 EA 36" x 36" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....  | 1,831.66                  | 227.39                  |
| 22 42 23 00-0005 EA 40" x 40" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....  | 2,712.86                  | 227.39                  |
| 22 42 23 00-0006 EA 40" x 48" x 82" Handicapped, Baked Enamel Steel Shower Enclosure (General Partitions).....                                     | 2,974.47                  | 227.39                  |

**22 Plumbing**  
**22 40 Plumbing Fixtures**  
**22 42 Commercial Plumbing Fixtures**



| MINOR            |     | TOTAL DIRECT   |           | DEMOLITION |           |
|------------------|-----|--|-----------|------------|-----------|
| CSI              | UOM | DESCRIPTION  | UNIT COST | UNIT COST  | UNIT COST |
| 22 42 23 00-0007 |     | <b>Solid Plastic Core High Density Polymer (HDP) Shower Enclosure</b> (22 42 23 00-0001) |           |            |           |
| 22 42 23 00-0008 | EA  | 32" x 32" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....  | 2,946.93  |            | 227.39    |
| 22 42 23 00-0009 | EA  | 36" x 36" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....  | 2,946.93  |            | 227.39    |
| 22 42 23 00-0010 | EA  | 40" x 40" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....  | 4,186.12  |            | 227.39    |
| 22 42 23 00-0011 | EA  | 40" x 48" x 82" Handicapped, Solid Plastic Shower Enclosure (General Partitions).....    | 4,668.03  |            | 227.39    |
| 22 42 23 00-0012 |     | <b>Composite Fiberglass Shower Enclosure, 4 Piece Knock-Down</b> (22 42 23 00-0001)      |           |            |           |
| 22 42 23 00-0013 | EA  | 32" x 32" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3232CS).....                | 1,550.91  |            | 227.39    |
| 22 42 23 00-0014 | EA  | 36" x 36" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3636CS).....                | 1,591.58  |            | 227.39    |
| 22 42 23 00-0015 | EA  | 34" x 48" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 4834CS).....                | 1,632.26  |            | 227.39    |
| 22 42 23 00-0016 | EA  | 30" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6030CSL).....               | 1,713.60  |            | 227.39    |
| 22 42 23 00-0017 | EA  | 34" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6034CS).....                | 1,821.39  |            | 227.39    |
| 22 42 23 00-0018 |     | <b>1 Piece Shower Units</b> (22 42 23)   |           |            |           |
| 22 42 23 00-0019 | EA  | 1 Piece, 32" x 32" x 73" Fiberglass Shower With Drain (Swanstone FS03232).....           | 1,301.50  |            | 131.91    |
| 22 42 23 00-0020 | EA  | 1 Piece, 36" x 36" x 73" Fiberglass Shower With Drain (Swanstone FS03636).....           | 1,450.85  |            | 131.91    |
| 22 42 23 00-0021 |     | <b>Personnel Type Shower Receptors</b> (22 42 23)  |           |            |           |
| 22 42 23 00-0022 |     | <b>Acrylic Shower Receptors</b> (22 42 23 00-0021)                                       |           |            |           |
| 22 42 23 00-0023 | EA  | 36" x 36" Acrylic Shower Receptor.....   | 508.05    |            | 57.43     |
| 22 42 23 00-0024 | EA  | 42" x 42" Acrylic Shower Receptor.....   | 534.46    |            | 57.43     |
| 22 42 23 00-0025 | EA  | 48" x 48" Acrylic Shower Receptor.....   | 587.19    |            | 57.43     |
| 22 42 23 00-0026 | EA  | 60" x 60" Acrylic Shower Receptor.....   | 713.40    |            | 68.91     |
| 22 42 23 00-0027 | EA  | 48" x 32" Acrylic Shower Receptor.....   | 509.29    |            | 57.43     |
| 22 42 23 00-0028 | EA  | 48" x 36" Acrylic Shower Receptor.....   | 544.02    |            | 57.43     |
| 22 42 23 00-0029 | EA  | 48" x 42" Acrylic Shower Receptor.....   | 608.63    |            | 57.43     |
| 22 42 23 00-0030 | EA  | 60" x 30" Acrylic Shower Receptor.....   | 897.95    |            | 118.94    |
| 22 42 23 00-0031 | EA  | 60" x 32" Acrylic Shower Receptor.....   | 680.53    |            | 68.91     |
| 22 42 23 00-0032 | EA  | 60" x 36" Acrylic Shower Receptor.....   | 685.00    |            | 68.91     |
| 22 42 23 00-0033 | EA  | 60" x 42" Acrylic Shower Receptor.....   | 689.10    |            | 68.91     |
| 22 42 23 00-0034 | EA  | 60" x 48" Acrylic Shower Receptor.....   | 753.30    |            | 68.91     |
| 22 42 23 00-0035 | EA  | 36" x 36" Acrylic Corner Shower Receptor.....  | 719.72    |            | 57.43     |
| 22 42 23 00-0036 | EA  | 42" x 42" Acrylic Corner Shower Receptor.....  | 819.39    |            | 57.43     |
| 22 42 23 00-0037 | EA  | 47-1/2" x 47-1/2" Acrylic Corner Shower Receptor.....                                    | 1,240.74  |            | 112.99    |
| 22 42 23 00-0038 |     | <b>Molded Stone Shower Receptors</b> (22 42 23 00-0021)                                  |           |            |           |
| 22 42 23 00-0039 | EA  | 32" x 32" Molded Stone Shower Receptor (Fiat 32WL).....                                  | 354.49    |            | 57.43     |
| 22 42 23 00-0040 | EA  | 34" x 34" Molded Stone Shower Receptor (Fiat 34WL).....                                  | 369.39    |            | 57.43     |
| 22 42 23 00-0041 | EA  | 36" x 36" Molded Stone Shower Receptor (Fiat 36WL).....                                  | 371.05    |            | 57.43     |
| 22 42 23 00-0042 | EA  | 42" x 42" Molded Stone Shower Receptor (Fiat 4242WL).....                                | 444.72    |            | 57.43     |
| 22 42 23 00-0043 | EA  | 42" x 34" Molded Stone Shower Receptor (Fiat 42WL).....                                  | 400.02    |            | 57.43     |
| 22 42 23 00-0044 | EA  | 48" x 32" Molded Stone Shower Receptor (Fiat 4832WL).....                                | 420.72    |            | 57.43     |
| 22 42 23 00-0045 | EA  | 48" x 34" Molded Stone Shower Receptor (Fiat 48WL).....                                  | 423.20    |            | 57.43     |
| 22 42 23 00-0046 | EA  | 54" x 34" Molded Stone Shower Receptor (Fiat 54WL).....                                  | 492.12    |            | 68.91     |
| 22 42 23 00-0047 | EA  | 60" x 34" Molded Stone Shower Receptor (Fiat 60WL).....                                  | 507.85    |            | 68.91     |
| 22 42 23 00-0048 | EA  | 36" x 36" Molded Stone Corner Shower Receptor (Fiat 36WLC).....                          | 404.16    |            | 57.43     |
| 22 42 23 00-0049 | EA  | 38" x 38" Molded Stone Corner Shower Receptor (Fiat 38WLC).....                          | 413.27    |            | 57.43     |
| 22 42 23 00-0050 |     | <b>Precast Terrazzo Shower Receptors</b> (22 42 23 00-0021)                              |           |            |           |
| 22 42 23 00-0051 | EA  | 30" x 30" Precast Terrazzo Shower Receptor.....  | 624.36    |            | 57.43     |
| 22 42 23 00-0052 | EA  | 32" x 32" Precast Terrazzo Shower Receptor.....  | 646.71    |            | 57.43     |
| 22 42 23 00-0053 | EA  | 34" x 34" Precast Terrazzo Shower Receptor.....  | 667.41    |            | 57.43     |
| 22 42 23 00-0054 | EA  | 36" x 36" Precast Terrazzo Shower Receptor.....  | 669.89    |            | 57.43     |
| 22 42 23 00-0055 | EA  | 40" x 40" Precast Terrazzo Shower Receptor.....  | 728.67    |            | 57.43     |
| 22 42 23 00-0056 | EA  | 42" x 42" Precast Terrazzo Shower Receptor.....  | 758.47    |            | 57.43     |
| 22 42 23 00-0057 | EA  | 48" x 48" Precast Terrazzo Shower Receptor.....  | 1,046.55  |            | 57.43     |
| 22 42 23 00-0058 | EA  | 36" x 32" Precast Terrazzo Shower Receptor.....  | 662.44    |            | 57.43     |
| 22 42 23 00-0059 | EA  | 42" x 32" Precast Terrazzo Shower Receptor.....  | 674.31    |            | 57.43     |
| 22 42 23 00-0060 | EA  | 42" x 34" Precast Terrazzo Shower Receptor.....  | 695.55    |            | 57.43     |
| 22 42 23 00-0061 | EA  | 42" x 36" Precast Terrazzo Shower Receptor.....  | 722.04    |            | 57.43     |
| 22 42 23 00-0062 | EA  | 32" x 48" Precast Terrazzo Shower Receptor.....  | 724.53    |            | 57.43     |
| 22 42 23 00-0063 | EA  | 48" x 34" Precast Terrazzo Shower Receptor.....  | 758.47    |            | 57.43     |
| 22 42 23 00-0064 | EA  | 54" x 32" Precast Terrazzo Shower Receptor.....  | 792.41    |            | 57.43     |
| 22 42 23 00-0065 | EA  | 60" x 30" Precast Terrazzo Shower Receptor.....  | 1,063.84  |            | 68.91     |
| 22 42 23 00-0066 | EA  | 60" x 32" Precast Terrazzo Shower Receptor.....  | 1,157.77  |            | 68.91     |
| 22 42 23 00-0067 | EA  | 60" x 34" Precast Terrazzo Shower Receptor.....  | 1,162.38  |            | 68.91     |
| 22 42 23 00-0068 | EA  | 60" x 36" Precast Terrazzo Shower Receptor.....  | 1,166.96  |            | 68.91     |
| 22 42 23 00-0069 | EA  | 32" x 32" Precast Terrazzo Corner Shower Receptor.....                                   | 673.20    |            | 57.43     |
| 22 42 23 00-0070 | EA  | 34" x 34" Precast Terrazzo Corner Shower Receptor.....                                   | 674.31    |            | 57.43     |
| 22 42 23 00-0071 | EA  | 36" x 36" Precast Terrazzo Corner Shower Receptor.....                                   | 676.51    |            | 57.43     |
| 22 42 23 00-0072 | EA  | 40" x 40" Precast Terrazzo Corner Shower Receptor.....                                   | 801.51    |            | 57.43     |
| 22 42 23 00-0073 | EA  | 36" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....              | 1,418.24  |            | 57.43     |
| 22 42 23 00-0074 | EA  | 60" x 30", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....              | 1,583.19  |            | 68.91     |
| 22 42 23 00-0075 | EA  | 60" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....              | 1,647.76  |            | 68.91     |



|                                     |              |           |
|-------------------------------------|--------------|-----------|
| <b>Plumbing</b>                     | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>            | <b>22 40</b> |           |
| <b>Commercial Plumbing Fixtures</b> | <b>22 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 42 23 00-0076 Shower Receptors Accessories</b> (22 42 23 00-0021)  |                           |                         |
| 22 42 23 00-0077 SF Polyvinyl Chloride (PVC) Shower Pan Liner .....  | 4.72                      |                         |
| <b>22 42 23 00-0078 Removal And Reinstallation Of Fixtures And Trim</b> (22 42 23)   |                           |                         |
| Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.  |                           |                         |
| 22 42 23 00-0079 EA Removal And Reinstallation Of Shower Head .....  | 68.91                     |                         |
| <b>22 42 33 Wash Fountains</b> (22 42)   |                           |                         |
| <b>22 42 33 00-0001 Circular Wash Fountain, Deep Bowl</b> (22 42 33)   |                           |                         |
| Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.   |                           |                         |
| 22 42 33 00-0002 EA 36" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2705F-A-LSD) .....      | 8,863.13                  | 213.74                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0003 EA 36" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2805F-A-LSD) .....           | 5,125.78                  | 213.74                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0004 EA 36" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3105AIRLSDE) .....            | 8,755.22                  | 213.74                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0005 EA 54" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2708F-A-LSD) .....      | 11,273.84                 | 244.27                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0006 EA 54" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2808F-A-LSD) .....           | 5,912.00                  | 244.27                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0007 EA 54" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3108AIRLSDE) .....            | 10,480.28                 | 244.27                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| <b>22 42 33 00-0008 Semi-Circular Wash Fountain, Deep Bowl</b> (22 42 33)  |                           |                         |
| Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.   |                           |                         |
| 22 42 33 00-0009 EA 36" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2703F-A-LSD) ..... | 7,730.24                  | 183.20                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0010 EA 36" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2803F-A-LSD) .....      | 4,669.63                  | 183.20                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0011 EA 36" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3103AIRLSDE) .....       | 6,655.98                  | 183.20                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0012 EA 54" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2704F-A-LSD) ..... | 9,476.70                  | 213.74                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0013 EA 54" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2804F-A-LSD) .....      | 5,628.48                  | 213.74                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| 22 42 33 00-0014 EA 54" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3104AIRLSDE) .....       | 7,914.30                  | 213.74                  |
| For Metal Soap Dispenser, Add  | 100.00                    |                         |
| For Stainless Steel Pedestal Panels, Add   | 100.00                    |                         |
| <b>22 42 39 Commercial Faucets, Supplies, and Trim</b> (22 42)   |                           |                         |
| <b>22 42 39 00-0001 Kitchen Faucets</b> (22 42 39)   |                           |                         |
| 22 42 39 00-0002 EA Top Cast Kitchen Faucet, Single Handle, Chrome Finish (Delta 140-DST) .....  | 221.78                    | 70.49                   |
| 22 42 39 00-0003 EA Top Cast Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 440-DST) .....   | 246.03                    | 70.49                   |
| 22 42 39 00-0004 EA Top Cast Kitchen Faucet, Single Handle, Stainless Steel Finish (Delta 140-SS-DST) .....  | 227.39                    | 70.49                   |
| 22 42 39 00-0005 EA Top Cast Kitchen Faucet With Spray, Single Handle, Stainless Steel Finish (Delta 440 -SS-DST) .....                                      | 252.91                    | 70.49                   |
| 22 42 39 00-0006 EA Top Cast Kitchen Faucet, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2102LF-LHP+H24) .....                                | 208.96                    | 70.49                   |
| 22 42 39 00-0007 EA Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2402LF-LHP+H24) .....                     | 226.05                    | 70.49                   |
| 22 42 39 00-0008 EA Top Cast Kitchen Faucet, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21987LF) .....                         | 283.64                    | 70.49                   |
| 22 42 39 00-0009 EA Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21996LF) .....              | 211.37                    | 70.49                   |
| 22 42 39 00-0010 EA Bottom Mount Kitchen Faucet, Single Handle, Chrome Finish (Delta 101LF-WF) .....   | 204.90                    | 70.49                   |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 42 39 00-0011 EA Bottom Mount Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 175LF-WF).....  | 236.52                    | 70.49                   |
| 22 42 39 00-0012 EA Bottom Mount Kitchen Faucet, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2274-LHP+H24).....   | 383.00                    | 70.49                   |
| 22 42 39 00-0013 EA Bottom Mount Kitchen Faucet With Spray, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2276-LHP+H24).....  | 416.96                    | 70.49                   |
| 22 42 39 00-0014 EA Deck Mount Sink Faucet, 8" Center Set, Lever Handles (Chicago Faucet 1100 ABCP).....  | 397.59                    | 76.57                   |
| 22 42 39 00-0015 EA Deck Mount Sink Faucet, 8" Center Set, 4" Wristblade Handles (Chicago Faucet 1100-GN2AE3-317CP).....  | 395.93                    | 76.57                   |
| 22 42 39 00-0016 EA Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 802-317CP).....  | 304.55                    | 76.57                   |
| 22 42 39 00-0017 EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041CR).....   | 654.03                    | 70.49                   |
| 22 42 39 00-0018 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041NK).....   | 818.83                    | 70.49                   |
| 22 42 39 00-0019 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041RB).....  | 873.76                    | 70.49                   |
| 22 42 39 00-0020 EA Chrome Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041CR).....  | 654.03                    | 70.49                   |
| 22 42 39 00-0021 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041NK).....  | 818.83                    | 70.49                   |
| 22 42 39 00-0022 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041RB).....   | 873.76                    | 70.49                   |
| <b>22 42 39 00-0023 Lavatory Faucets (22 42 39)</b>   |                           |                         |
| 22 42 39 00-0024 EA Single Handle Centerset Lavatory Faucet, Polished Chrome Finish (Delta Lahara 538-MPU-DST).....   | 253.10                    | 50.75                   |
| 22 42 39 00-0025 EA 4" Centerset Lavatory Faucet With Chrome Lever Handle (Delta 501LF-WF).....   | 182.94                    | 50.75                   |
| 22 42 39 00-0026 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2523LF-MPU).....  | 221.32                    | 50.75                   |
| 22 42 39 00-0027 EA 4" Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2529LF-HDM).....  | 240.46                    | 50.75                   |
| 22 42 39 00-0028 EA Classic Style Widespread Lavatory Faucet With Chrome Lever Handles (Delta 3530LF-MPU).....  | 289.89                    | 50.75                   |
| 22 42 39 00-0029 EA Widespread Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 3579LF-WFHDF).....  | 333.80                    | 50.75                   |
| 22 42 39 00-0030 EA Self Closing/Metered Faucet, Brass, Single Hole, Push Handle (Delta 86T104).....  | 213.07                    | 50.75                   |
| 22 42 39 00-0031 EA Self Closing/Metered Faucet, Double Hole, Push Handles (American Standard 1340.225.002).....  | 311.89                    | 50.75                   |
| 22 42 39 00-0032 EA Single Inlet, Push Handle Metering Faucet, ADA (Chicago Faucet 333-665).....  | 231.43                    | 50.75                   |
| 22 42 39 00-0033 EA 3" Reach, 4-Arm Handle Single Basin Faucet (T&S Brass 0710).....  | 236.24                    | 50.75                   |
| 22 42 39 00-0034 EA 3" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0712).....  | 280.33                    | 50.75                   |
| 22 42 39 00-0035 EA 4" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0805).....  | 275.12                    | 50.75                   |
| 22 42 39 00-0036 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Zurn Z81104).....   | 229.12                    | 50.75                   |
| <b>22 42 39 00-0037 Bath And Shower Faucets (22 42 39)</b>  |                           |                         |
| <b>22 42 39 00-0038 Bath And Shower Faucets With Valve Body (22 42 39 00-0037)</b>  |                           |                         |
| 22 42 39 00-0039 EA Single Lever Handle, Chrome Tub Filler, Pressure-Balance (American Standard T480 500).....  | 241.08                    | 61.19                   |
| 22 42 39 00-0040 EA Single Lever Handle, Chrome Shower Only, Pressure-Balance (American Standard T480.501).....   | 277.28                    | 61.19                   |
| 22 42 39 00-0041 EA Single Lever Handle, Chrome Shower And Tub Filler, Pressure-Balance (American Standard T480.502).....   | 300.48                    | 61.19                   |
| 22 42 39 00-0042 EA Two Lever Handle, Chrome Tub Filler (American Standard Colony Soft 3275.505).....   | 225.30                    | 61.19                   |
| <i>For Faucet With Metal Cross Handles, Add</i>   | 45.75                     |                         |
| 22 42 39 00-0043 EA Two Lever Handle, Chrome Shower Only (American Standard Colony Soft 3275.501).....  | 234.58                    | 61.19                   |
| <i>For Faucet With Metal Cross Handles, Add</i>   | 45.75                     |                         |
| 22 42 39 00-0044 EA Two Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3275.502).....  | 261.50                    | 61.19                   |
| <i>For Faucet With Metal Cross Handles, Add</i>   | 45.75                     |                         |
| 22 42 39 00-0045 EA Three Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3375.502).....  | 292.13                    | 61.19                   |
| <i>For Faucet With Metal Cross Handles, Add</i>   | 45.75                     |                         |
| <b>22 42 39 00-0046 Shower Valves And Trim (22 42 39)</b>   |                           |                         |
| See CSI section 22 41 39 00-0011 for residential shower valves and heads.   |                           |                         |
| 22 42 39 00-0047 EA Senior Institutional Shower Head (Symmons® 4-150).....  | 235.28                    | 61.19                   |
| 22 42 39 00-0048 EA Universal Institutional Shower Head (Symmons® 4-151).....   | 373.48                    | 61.19                   |
| 22 42 39 00-0049 EA Fre-Flo Institutional Shower Head (Symmons® 4-295).....   | 271.66                    | 61.19                   |
| 22 42 39 00-0050 EA Fre-Flo Institutional Shower Head With Short Arm (Symmons® 4-385).....  | 212.07                    | 61.19                   |
| 22 42 39 00-0051 EA Wall Mounted Shower Valve And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-300-B30-V-X).....  | 827.30                    | 91.64                   |
| 22 42 39 00-0052 EA Wall Mounted Shower Valve, Tub Faucet, And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-400-B30-V-X).....   | 697.86                    | 105.74                  |
| 22 42 39 00-0053 EA Wall Mounted Shower Valve, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-500-B30-V-X).....  | 899.55                    | 105.74                  |
| 22 42 39 00-0054 EA Wall Mounted Shower Valve, Tub Faucet, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-600-B30-V-X).....  | 1,244.15                  | 112.79                  |
| 22 42 39 00-0055 EA Removable Hand Held Shower With Hose Wall Hook And Inline Vacuum Breaker (Powers 141-318 with 141-319).....   | 410.34                    | 95.16                   |
| 22 42 39 00-0056 EA Concealed Thermostatic/Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 2502-600CP).....   | 835.17                    | 95.16                   |
| 22 42 39 00-0057 EA Concealed Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 1762-ISCP).....   | 601.14                    | 95.16                   |
| 22 42 39 00-0058 EA Stainless Steel Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-801S/1-802S).....                                | 1,131.83                  | 95.16                   |
| <i>For Hand Spray, Hose And Wall Hooks, Add</i>   | 106.44                    |                         |
| <i>For Recessed Soap Dish, Add</i>  | 108.12                    |                         |
| <i>For Hand Spray, Hose And 30" Slide Bar, Add</i>  | 165.51                    |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |
| 22 42 39 00-0059 EA Stainless Steel Corner Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-807).....                                 | 1,333.25                  | 95.16                   |
| <i>For Hand Spray, Hose And Wall Hooks, Add</i>   | 106.44                    |                         |
| <i>For Recessed Soap Dish, Add</i>  | 108.12                    |                         |
| <i>For Hand Spray, Hose And 30" Slide Bar, Add</i>  | 165.51                    |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |
| 22 42 39 00-0060 EA Stainless Steel Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S)..... | 928.79                    | 95.16                   |
| <i>For Hand Spray, Hose And Wall Hooks, Add</i>   | 19.32                     |                         |
| <i>For Hand Spray, Hose And 30" Slide Bar, Add</i>  | 78.39                     |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |



|                                     |              |           |
|-------------------------------------|--------------|-----------|
| <b>Plumbing</b>                     | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>            | <b>22 40</b> |           |
| <b>Commercial Plumbing Fixtures</b> | <b>22 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 42 39 00-0061 EA Stainless Steel Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-911RS).....   | 1,368.66                  | 95.16                   |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |
| 22 42 39 00-0062 EA Stainless Steel Double Outlet Institutional Shower System With Thru-Ceiling Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-902S-FS).....               | 1,463.47                  | 95.16                   |
| <i>For Hand Spray, Hose And 30" Slide Bar, Add</i>  | 59.07                     |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |
| 22 42 39 00-0063 EA Stainless Steel Institutional Triple Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-931).....                                       | 2,644.44                  | 95.16                   |
| <i>For Recessed Soap Dish, Add</i>  | 83.94                     |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 227.79                    |                         |
| 22 42 39 00-0064 EA Stainless Steel Institutional Double Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-921).....  | 2,318.32                  | 95.16                   |
| <i>For Recessed Soap Dish, Add</i>  | 83.94                     |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |
| 22 42 39 00-0065 EA Stainless Steel Tub And Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-941-231).....  | 1,196.42                  | 95.16                   |
| 22 42 39 00-0066 EA Stainless Steel Double Outlet Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Hand Spray, Hose, Wall Hooks, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-912RS-FS).....        | 1,801.42                  | 95.16                   |
| <i>For Hand Spray, Hose And 30" Slide Bar, Add</i>  | 59.07                     |                         |
| <i>For Pressure Balance And Metering Combination, Add</i>   | 291.63                    |                         |
| 22 42 39 00-0067 EA Stainless Steel Single Supply Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-60).....                  | 1,194.90                  | 95.16                   |
| 22 42 39 00-0068 EA Stainless Steel Single Supply Single Outlet Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-22-FS)..... | 1,191.56                  | 95.16                   |
| <i>For Hand Spray, Hose And 30" Slide Bar, Add</i>  | 59.07                     |                         |
| 22 42 39 00-0069 EA Single Lever Handle, Chrome, Pressure-Balance, Shower System (Symmons SafetyMix 1-100-X-3/4).....   | 875.12                    | 84.59                   |
| 22 42 39 00-0070 EA Single Lever Handle, Chrome, Pressure-Balance, Shower Valve (Symmons SafetyMix 4-500).....  | 670.87                    | 61.19                   |
| <b>22 42 39 00-0071 Service Sink Faucets (22 42 39)</b>   |                           |                         |
| 22 42 39 00-0072 EA 4-5/8" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (Kohler® Kinlock™).....   | 512.60                    | 117.37                  |
| 22 42 39 00-0073 EA 3" Spout, Wall Mount, Service Sink Faucet With Lever Handles (American Standard 8340.235).....  | 383.21                    | 117.37                  |
| 22 42 39 00-0074 EA 3" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (American Standard 8340.243).....   | 408.27                    | 117.37                  |
| 22 42 39 00-0075 EA 6" Spout With Vacuum Breaker And Top Brace, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8344.012).....   | 421.27                    | 117.37                  |
| 22 42 39 00-0076 EA 7-1/4" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.101).....   | 555.80                    | 164.52                  |
| 22 42 39 00-0077 EA 7-1/4" Spout With Vacuum Break And Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.110).....  | 624.46                    | 187.50                  |
| 22 42 39 00-0078 EA 11" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8345.115).....  | 706.14                    | 187.50                  |
| 22 42 39 00-0079 EA Wall Mount Service Sink Faucet With Atmospheric Vacuum Breaker Spout, Lever Handles (Chicago Faucet 305-VBRCF).....   | 418.53                    | 117.37                  |
| 22 42 39 00-0080 EA 8" Spout Wall Mount Service Sink, Wrist Blade Handles (Chicago 445-L8ABCP).....   | 633.48                    | 187.50                  |
| 22 42 39 00-0081 EA 44" Flexible Stainless Steel Hose With Insulated Handle, 23" Riser, Pre-Rinse Faucet (Chicago Faucet 923-XKCAB).....  | 829.40                    | 187.50                  |
| <b>22 42 39 00-0082 Laboratory Faucets And Fittings (22 42 39)</b>  |                           |                         |
| 22 42 39 00-0083 EA Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 927).....  | 209.12                    | 49.91                   |
| 22 42 39 00-0084 EA Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 929).....   | 336.78                    | 70.49                   |
| 22 42 39 00-0085 EA Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet With Vacuum Breaker (Chicago Faucet 930).....   | 426.09                    | 70.49                   |
| 22 42 39 00-0086 EA Cold Wall Mount, Gooseneck Spout With Aerator, Laboratory Faucet (Chicago Faucet 933).....  | 273.20                    | 65.83                   |
| 22 42 39 00-0087 EA 6" Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940).....  | 373.54                    | 93.89                   |
| 22 42 39 00-0088 EA 6" Spout With Aerator And Vacuum Breaker, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940-VBE7-CP).....   | 489.99                    | 93.89                   |
| 22 42 39 00-0089 EA Dual Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 946).....   | 389.64                    | 70.49                   |
| 22 42 39 00-0090 EA Gooseneck Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 942).....   | 394.70                    | 93.89                   |
| 22 42 39 00-0091 EA Single Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 350-CP).....   | 254.82                    | 54.21                   |
| 22 42 39 00-0092 EA Dual Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 50-CP).....  | 359.18                    | 76.57                   |
| 22 42 39 00-0093 EA 4" Center Set, Deck Mount, Lavatory Faucet With Blade Handles (Chicago Faucet 802).....   | 285.37                    | 76.57                   |
| 22 42 39 00-0094 EA 4" Center Set, Deck Mount, Gooseneck Sink Faucet With Blade Handles (Chicago Faucet 895-317ABCP).....   | 340.15                    | 76.57                   |
| 22 42 39 00-0095 EA Gas Ball Valve, Removable Nozzle, With Index Button (Chicago Faucet 909-AGVCP).....   | 102.05                    | 47.09                   |
| 22 42 39 00-0096 EA Dual Service Lab Fitting, Two Gas And One Water Outlet (Chicago Faucet 1332-CP).....  | 533.11                    | 84.59                   |
| 22 42 39 00-0097 EA Dual Service Lab Fitting With Wristblade Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-317CP).....  | 673.81                    | 84.59                   |
| 22 42 39 00-0098 EA Dual Service Lab Fitting With Metal Cross Handle, Inline Vacuum Breaker, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7-204CP).....  | 801.99                    | 84.59                   |
| 22 42 39 00-0099 EA Dual Service Lab Fitting With Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7CP).....   | 713.97                    | 84.59                   |
| 22 42 39 00-0100 EA Dual Service Lab Fitting With Chemical Resistant Coating And Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7SAM).....   | 842.32                    | 84.59                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 42 39 00-0101 EA Single, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-131WSA) .....  | 174.89                    | 46.53                   |
| 22 42 39 00-0102 EA 90 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132AWSA) .....   | 242.23                    | 55.83                   |
| 22 42 39 00-0103 EA 180 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132SWSA) .....  | 242.23                    | 55.83                   |
| 22 42 39 00-0104 EA Three Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-133WSA) .....   | 309.58                    | 65.13                   |
| 22 42 39 00-0105 EA Four Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-134WSA) .....  | 376.92                    | 74.44                   |
| <b>22 42 39 00-0106 Gooseneck Faucets With Independent Eyewash</b> (22 42 39)  |                           |                         |
| 22 42 39 00-0107 EA Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA) .....   | 918.30                    | 52.86                   |
| 22 42 39 00-0108 EA Single Lever Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-SL) .....   | 992.30                    | 49.34                   |
| 22 42 39 00-0109 EA 8" Stem, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8) .....                                  | 1,276.61                  | 52.86                   |
| 22 42 39 00-0110 EA Serrated Tip With Vacuum Breaker, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-ST) .....           | 1,347.15                  | 52.86                   |
| 22 42 39 00-0111 EA Thermostatic Mixing Valve Kit For The SEF-1800 (Speakman SEF-TW) .....   | 1,624.81                  | 35.25                   |
| 22 42 39 00-0112 EA Foot Pedal Activation, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-FP) .....                      | 1,976.78                  | 88.11                   |
| 22 42 39 00-0113 EA Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-TW) .....           | 2,746.25                  | 88.11                   |
| 22 42 39 00-0114 EA 8" Stem, Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8TW) ..... | 2,836.02                  | 88.11                   |
| 22 42 39 00-0115 EA Adjustable Aerated Outlet Heads, Gooseneck Faucet Mounted Eyewash (WaterSaver EW101) .....   | 342.54                    | 53.60                   |
| 22 42 39 00-0116 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW200) .....  | 374.98                    | 53.60                   |
| 22 42 39 00-0117 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW201) .....  | 403.31                    | 53.60                   |
| 22 42 39 00-0118 EA 6 Gallon Capacity, Tempering Valve (WaterSaver AP3600) .....   | 1,703.37                  | 35.25                   |
| <b>22 42 39 00-0119 Bubblers And Glass Fillers</b> (22 42 39)  |                           |                         |
| 22 42 39 00-0120 EA Self-Closing Bubbler Faucet, Metering Handle (Chicago Faucet 748-665CP) .....  | 350.20                    | 49.91                   |
| 22 42 39 00-0121 EA Wall Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 313-CP) .....   | 322.61                    | 65.83                   |
| 22 42 39 00-0122 EA 7" Overall Outlet Height, Deck Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 709-CP) .....                                       | 345.76                    | 49.91                   |
| 22 42 39 00-0123 EA Wall Mount, Push Button Single Glass Filler (Chicago Faucet 324-CP) .....  | 233.63                    | 71.51                   |
| 22 42 39 00-0124 EA Deck Mount, Lever Handle Drinking Faucet (Haws 5054LF) .....   | 407.88                    | 54.21                   |
| 22 42 39 00-0125 EA Push Button Bubbler, 1/2" OD (Haws 5017LF) .....   | 412.98                    | 54.21                   |
| 22 42 39 00-0126 EA Push Button Bubbler, 3/8" NPT (Haws 5010-6427) .....   | 348.48                    | 54.21                   |
| <b>22 42 39 00-0127 Automatic Electronic Sensor Faucets</b> (22 42 39)   |                           |                         |
| 22 42 39 00-0128 EA Electronic Lavatory Faucet (American Standard 6055.205.002) .....  | 653.31                    | 117.58                  |
| For Faucet With Temperature Control, Add   | 40.00                     |                         |
| 22 42 39 00-0129 EA Electronic Lavatory Gooseneck Faucet (American Standard 6055.105.002) .....  | 658.88                    | 117.58                  |
| For Faucet With Temperature Control, Add   | 40.00                     |                         |
| 22 42 39 00-0130 EA Electronic Gooseneck Faucet (Chicago Faucet 116.103.AB.1) .....  | 868.62                    | 127.71                  |
| 22 42 39 00-0131 EA Electronic Lavatory Faucet (Chicago Faucet 116.112.AB.1) .....   | 897.64                    | 117.58                  |
| 22 42 39 00-0132 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880) .....  | 1,309.63                  | 127.71                  |
| 22 42 39 00-0133 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880-BDT) .....  | 1,623.45                  | 127.71                  |
| 22 42 39 00-0134 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-35187) .....  | 1,520.55                  | 127.71                  |
| 22 42 39 00-0135 EA Solar Powered, Electronic Lavatory Faucet With Integral Mixing Valve (Sloan Solis EAF-275-ISM) .....   | 1,075.53                  | 117.58                  |
| 22 42 39 00-0136 EA Deck Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1100) .....  | 1,075.81                  | 117.58                  |
| 22 42 39 00-0137 EA Wall Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1101) .....  | 1,134.48                  | 117.58                  |
| 22 42 39 00-0138 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC1102) .....   | 987.81                    | 117.58                  |
| 22 42 39 00-0139 EA Deck Mount, DC Power, Electronic Lavatory Faucet (T&S Brass EC2100) .....  | 1,134.48                  | 117.58                  |
| 22 42 39 00-0140 EA Deck Mount, DC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC2102) .....   | 995.98                    | 117.58                  |
| 22 42 39 00-0141 EA Deck Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3100) .....  | 995.98                    | 117.58                  |
| 22 42 39 00-0142 EA Wall Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3101) .....  | 1,116.60                  | 117.58                  |
| 22 42 39 00-0143 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3102) .....   | 952.77                    | 117.58                  |
| 22 42 39 00-0144 EA 4" Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3103) .....  | 915.76                    | 117.58                  |
| 22 42 39 00-0145 EA Self-Generating EcoPower System, Single Supply Sensor Faucet, Standard Spout (Toto "Eco-Power" TEL3GKCN-60) .....                                | 1,276.12                  | 117.58                  |
| <b>22 42 39 00-0146 Other Trim</b> (22 42 39)  |                           |                         |
| 22 42 39 00-0147 EA Faucet Aerator, Male Thread 13/16" Male, 2 GPM (Delta RP330) .....   | 22.21                     | 7.66                    |
| 22 42 39 00-0148 EA 1-1/2" Pop-up Tailpiece (Chicago Faucet 226-ACP) .....   | 146.85                    | 22.97                   |
| 22 42 39 00-0149 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Angle Stop (SharkBite 23036) .....  | 43.92                     | 14.80                   |
| 22 42 39 00-0150 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Straight Stop (SharkBite 23037) .....   | 43.92                     | 14.80                   |
| 22 42 39 00-0151 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Dual Angle Stop (SharkBite 25558) .....   | 56.97                     | 14.80                   |
| 22 42 39 00-0152 PR Pair of 16" Long, 3/8" OD x 1/2" IPS, Stainless Steel Braided Sink Supply Line .....   | 43.13                     | 16.27                   |
| 22 42 39 00-0153 EA 12" Long, 3/8" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line .....  | 26.48                     | 9.57                    |
| 22 42 39 00-0154 EA 12" Long, 1/2" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line .....  | 27.07                     | 9.57                    |
| <b>22 42 39 00-0155 Removal And Reinstallation Of Fixtures And Trim</b> (22 42 39)   |                           |                         |
| Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.  |                           |                         |
| 22 42 39 00-0156 EA Removal And Reinstallation Of Faucet .....   | 122.50                    |                         |
| <b>22 42 43 Flushometers</b> (22 42)   |                           |                         |
| <b>22 42 43 00-0001 Water Closet Flush Valves</b> (22 42 43)   |                           |                         |
| 22 42 43 00-0002 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-115XL) .....  | 346.79                    | 48.08                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 42 43 00-0003 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-113-1.6).....   | 336.45                    | 48.08                   |
| 22 42 43 00-0004 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-110 Or 111).....  | 388.33                    | 48.08                   |
| 22 42 43 00-0005 EA Back Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-140).....  | 535.13                    | 48.08                   |
| 22 42 43 00-0006 EA Top Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-142).....   | 593.45                    | 48.08                   |
| 22 42 43 00-0007 EA Exposed Infrared Water Closet Flush Valve (Sloan Royal 115-1.6 ES-S).....  | 1,072.19                  | 48.08                   |
| 22 42 43 00-0008 EA Concealed Infrared Water Closet Flush Valve, Back Spud (Sloan Royal-140 ES-S).....   | 1,077.70                  | 48.08                   |
| 22 42 43 00-0009 EA Concealed Infrared Water Closet Flush Valve, Top Spud (Sloan Royal-153-1.6-ES-S).....  | 1,136.52                  | 48.08                   |
| 22 42 43 00-0010 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8113).....  | 1,057.55                  | 48.08                   |
| 22 42 43 00-0011 EA Dual Flush Water Closet Flush Valve (Sloan Uppercut WES-115).....  | 475.64                    | 48.08                   |
| Note: "Green". 1.6 Gallons or 1.1 Gallons per flush. Includes instructional placards on proper operation.  |                           |                         |
| 22 42 43 00-0012 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8110).....  | 744.66                    | 48.08                   |
| 22 42 43 00-0013 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima EBV-89A).....                   | 464.37                    | 48.08                   |
| 22 42 43 00-0014 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts<br>40118X).....           | 462.23                    | 48.08                   |
| 22 42 43 00-0015 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima<br>Smooth EBV-200A)..... | 462.07                    | 42.29                   |
| 22 42 43 00-0016 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts<br>40180X).....    | 501.70                    | 42.29                   |
| 22 42 43 00-0017 EA 1.28 GPF, Exposed Infrared Water Closet Flush Valve (Toto EcoPower TET1LN).....  | 1,087.41                  | 48.08                   |
| 22 42 43 00-0018 EA Exposed Infrared Water Closet Flush Valve (1-1/2" V.B.) 1.28 GPF (Toto EcoPower TET1LN32).....                                   | 1,189.91                  | 48.08                   |
| 22 42 43 00-0019 EA 1.28 GPF, Back Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN31 Or TET3LN31).....                       | 1,513.40                  | 48.08                   |
| 22 42 43 00-0020 EA 1.28 GPF, Top Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN32 Or TET3LN32).....                        | 1,513.40                  | 48.08                   |
| 22 42 43 00-0021 EA Exposed Infrared Water Closet Flush Valve (Zurn ZEMS6000AV-HET-IS).....  | 985.13                    | 48.08                   |
| 22 42 43 00-0022 EA Exposed Infrared Water Closet Flush Valve (Zurn ZTS6200EV).....  | 977.07                    | 48.08                   |
| 22 42 43 00-0023 EA Slide Over Handle AC Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan EL-600-A).....                       | 484.30                    | 42.29                   |
| 22 42 43 00-0024 EA 6 Volt DC, 120 Volt AC Hardwired Power Transformer (Sloan EL-451).....   | 151.44                    | 7.70                    |
| 22 42 43 00-0025 EA Exposed Solar/Battery Powered Water Closet Flush Valve (Sloan Solis 8111-1.28).....  | 597.62                    | 48.08                   |
| 22 42 43 00-0026 EA Exposed Manual Water Closet Flush Valve (Zurn Z6000AV-HET).....  | 372.00                    | 48.08                   |
| 22 42 43 00-0027 EA Exposed Battery Powered Water Closet Flush Valve (Zurn ZER6000AV-HET).....   | 1,007.33                  | 48.08                   |
| <b>22 42 43 00-0028 Urinal Flush Valves (22 42 43)</b>   |                           |                         |
| 22 42 43 00-0029 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 186 XL).....   | 267.61                    | 48.08                   |
| Note: 0.5, 1.0 or 1.5 GPF.   |                           |                         |
| 22 42 43 00-0030 EA 1-1/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 180).....  | 286.01                    | 48.08                   |
| Note: 1.0, 1.5 or 3.5 GPF.   |                           |                         |
| 22 42 43 00-0031 EA Back Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 195).....  | 373.89                    | 48.08                   |
| Note: 1.0 or 1.5 GPF.  |                           |                         |
| 22 42 43 00-0032 EA Top Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 197).....   | 446.29                    | 48.08                   |
| Note: 1.0 or 1.5 GPF.  |                           |                         |
| 22 42 43 00-0033 EA Exposed Infrared Urinal Flush Valve (Sloan Royal 186-ES-S).....  | 684.94                    | 48.08                   |
| Note: 1.0 or 1.5 GPF.  |                           |                         |
| 22 42 43 00-0034 EA Back Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 195-WB-ES-S).....  | 910.22                    | 48.08                   |
| Note: 0.5, 1.0 or 1.5 GPF.   |                           |                         |
| 22 42 43 00-0035 EA Top Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 197-WB-ES-S).....   | 1,017.52                  | 48.08                   |
| Note: 0.5, 1.0 or 1.5 GPF.   |                           |                         |
| 22 42 43 00-0036 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Sloan G2 Opt+8186-1).....  | 674.17                    | 48.08                   |
| Note: 1.0 GPF.   |                           |                         |
| 22 42 43 00-0037 EA Exposed Infrared Urinal Flush Valve (3/4" V.B.) (Toto EcoPower TEU1LN12).....  | 1,183.31                  | 48.08                   |
| Note: 0.5 GPF.   |                           |                         |
| 22 42 43 00-0038 EA Top Spud, Exposed Solar/Battery Powered Urinal Flush Valve (Sloan Solis 8186-0.13).....  | 527.13                    | 48.08                   |
| Note: 0.13 GPF.  |                           |                         |
| 22 42 43 00-0039 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Zurn Z6003AV-ULF).....   | 302.14                    | 48.08                   |
| Note: 0.125 GPF.   |                           |                         |
| 22 42 43 00-0040 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Zurn ZTR6203-ULF).....   | 724.74                    | 48.08                   |
| Note: 0.125 GPF.   |                           |                         |
| 22 42 43 00-0041 EA Exposed Infrared Urinal Flush Valve (Zurn ZEMS6003AV-ULF-IS).....  | 740.44                    | 48.08                   |
| Note: 0.125 GPF.   |                           |                         |
| <b>22 42 43 00-0042 Removal And Reinstallation Of Fixtures And Trim (22 42 43)</b>   |                           |                         |
| Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.  |                           |                         |
| 22 42 43 00-0043 EA Removal And Reinstallation Of Flush Valve.....   | 191.41                    |                         |
| <b>22 42 43 00-0044 Plumbing Control Transformers (22 42 43)</b>   |                           |                         |
| 22 42 43 00-0045 EA 6 Volt DC, 120 Volt AC Plug In Style Power Transformer (Zurn P6000-PC6).....   | 69.23                     |                         |
| <b>22 42 46 Chemical Toilets (22 42)</b>   |                           |                         |
| Note: Includes toilet, urinal, holding tank, and ventilation system. Building to be priced separately.   |                           |                         |
| <b>22 42 46 00-0001 Standard Chemical Toilets (22 42 46)</b>   |                           |                         |
| <b>22 42 46 00-0002 Small Tank Chemical Toilets (22 42 46 00-0001)</b>   |                           |                         |
| 22 42 46 00-0003 EA Chemical Toilet, Small Tank 7,000 Uses/Year.....   | 5,810.13                  | 1,409.81                |
| For Extra Urinal, Add <span style="float: right;">186.27</span>  |                           |                         |
| <b>22 42 46 00-0004 Medium Tank Chemical Toilets (22 42 46 00-0001)</b>  |                           |                         |
| 22 42 46 00-0005 EA Chemical Toilet, Medium Tank 13,000 Uses/Year.....   | 6,907.06                  | 1,679.08                |
| For Extra Urinal, Add <span style="float: right;">220.77</span>  |                           |                         |

|              |                                     |
|--------------|-------------------------------------|
| <b>22</b>    | <b>Plumbing</b>                     |
| <b>22 40</b> | <b>Plumbing Fixtures</b>            |
| <b>22 42</b> | <b>Commercial Plumbing Fixtures</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 42 46 00-0006</b> Large Tank Chemical Toilets <small>(22 42 46 00-0001)</small>  |                           |                         |
| 22 42 46 00-0007 EA Chemical Toilet, Large Tank 28,000 Uses/Year<br><i>For Extra Urinal, Add</i>   | 8,227.60<br>289.90        | 1,904.65                |
| <b>22 43 Healthcare Plumbing Fixtures</b> <small>(22 40)</small>   |                           |                         |
| <b>22 43 13 Healthcare Water Closets</b> <small>(22 43)</small>  |                           |                         |
| <b>22 43 13 00-0001</b> Healthcare Water Closets <small>(22 43 13)</small>   |                           |                         |
| 22 43 13 00-0002 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China<br>Healthcare Water Closet With Bedpan Holding Rim (American Standard Priolo® ADA).....  | 1,013.96                  | 146.62                  |
| 22 43 13 00-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China<br>Healthcare Water Closet With Bedpan Holding Rim (American Standard Madera™ ADA)..... | 834.96                    | 146.62                  |
| <b>22 43 16 Healthcare Sinks</b> <small>(22 43)</small>  |                           |                         |
| <b>22 43 16 00-0001</b> Healthcare Sinks <small>(22 43 16)</small><br>Note: Includes trap, drain and supply valves. Excludes faucets and flush valves.   |                           |                         |
| 22 43 16 00-0002 EA 25" x 21", Wall Mounted, Blow Out Flushing Rim, Vitreous China Clinic Service Sink (American Standard) .....   | 1,315.60                  | 94.45                   |
| <i>For Stainless Steel Rim Guards (Three Sides), Add</i>   | 108.61                    |                         |
| 22 43 16 00-0003 EA 29" x 20", Floor Mounted, Siphon Jet Flushing Rim, Vitreous China Clinic Service Sink (American Standard).....   | 1,452.34                  | 271.38                  |
| <i>For Stainless Steel Rim Guards (Three Sides), Add</i>   | 108.61                    |                         |
| <i>For Pedestal Base, Add</i>  | 497.95                    |                         |
| 22 43 16 00-0004 EA 28" x 22", Wall Mounted, Vitreous China Surgeon's Scrub Sink (American Standard).....  | 1,267.78                  | 94.45                   |
| <i>For Painted Bracket Supports, Add</i>   | 185.13                    |                         |
| 22 43 16 00-0005 EA 20" x 17", Wall Mounted, Vitreous China Intensive Care Unit Sink (American Standard).....  | 1,124.34                  | 94.45                   |
| <b>22 43 39 Healthcare Faucets</b> <small>(22 43)</small>  |                           |                         |
| <b>22 43 39 00-0001</b> Medical Faucet Spouts <small>(22 43 39)</small>  |                           |                         |
| 22 43 39 00-0002 EA Deck Mounted, Rigid Gooseneck Medical Lavatory Spout (American Standard 7522) .....  | 111.54                    | 21.15                   |
| <b>22 43 39 00-0003</b> Electronic Proximity Medical Faucets <small>(22 43 39)</small>   |                           |                         |
| 22 43 39 00-0004 EA DC Or Plug-In AC Powered, Single Inlet, Electronic Proximity Medical Lavatory Faucet (American Standard<br>Selectronic™ ICU).....  | 614.38                    | 103.48                  |
| <i>For Hard Wired AC Powered, Add</i>  | 24.73                     |                         |
| <b>22 43 39 00-0005</b> Foot And Knee Faucet Controls <small>(22 43 39)</small>  |                           |                         |
| 22 43 39 00-0006 EA Single Supply Metering Pedal Valve (Chicago Faucet 628).....   | 464.47                    | 188.07                  |
| 22 43 39 00-0007 EA Double Supply Metering Pedal Valve (Chicago Faucet 625) .....  | 528.52                    | 188.07                  |
| 22 43 39 00-0008 EA Knee Actuated Metering Mixing Valve (Chicago Faucet 745-VOCP) .....  | 1,022.17                  | 188.07                  |
| 22 43 39 00-0009 EA Double Knee Actuated Metering Mixing Valve (American Standard 7676).....   | 740.55                    | 188.07                  |
| <b>22 43 39 00-0010</b> Centerset Medical Faucets <small>(22 43 39)</small>  |                           |                         |
| 22 43 39 00-0011 EA Rigid Gooseneck Centerset Medical Lavatory Faucet, 8" Centers 6" Wrist Action Handles, Adjustable Centers<br>(T&S B-0865-04) .....   | 558.27                    | 103.48                  |
| 22 43 39 00-0012 EA Swivel Gooseneck Centerset Medical Lavatory Faucet, 8" Centers, 6" Wrist Action Handles, Adjustable Centers<br>(T&S B-0866-04) .....   | 564.07                    | 103.48                  |
| 22 43 39 00-0013 EA Swivel Gooseneck Centerset Medical Lavatory Faucet With Aerator 8" Centers, 6" Wrist Action Handles,<br>Adjustable Centers (T&S B-0867-04) .....   | 563.48                    | 103.48                  |
| 22 43 39 00-0014 EA Surgical Sink Rigid Gooseneck Faucets, 8" Centers, 6" Wrist Action Handles (T&S B-0322-04).....  | 508.38                    | 103.48                  |
| 22 43 39 00-0015 EA Surgical Sink Rigid Gooseneck Faucets With Stream Regulator Outlet, 8" Centers, 6" Wrist Action Handles (T&S<br>B-0323-04).....  | 488.65                    | 103.48                  |
| <b>22 43 39 00-0016</b> Bedpan Washers <small>(22 43 39)</small>   |                           |                         |
| 22 43 39 00-0017 EA Self Closing Pedal Valve Bed Pan Washer, With Volume Control, Vacuum Breaker, Wall Hook Hose Connection,<br>Polyvinyl Chloride Hose (T&S B-0675) .....   | 1,298.04                  | 188.07                  |
| 22 43 39 00-0018 EA Pedal Valve Bed Panwasher With Volume Control Valve, Vacuum Breaker, Wall Hook Hose Connection,<br>Extended Spray Polyvinyl Chloride Hose (T&S B-0676).....                                      | 1,237.30                  | 188.07                  |
| 22 43 39 00-0019 EA Self Closing Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose<br>Connection Polyvinyl Chloride Hose (T&S B-0685).....  | 1,219.31                  | 188.07                  |
| 22 43 39 00-0020 EA Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection,<br>Polyvinyl Chloride Hose, Extended Spray (T&S B-0686).....                                    | 1,201.82                  | 188.07                  |
| <b>22 43 43 Healthcare Plumbing Fixture Flushometers</b> <small>(22 43)</small>  |                           |                         |
| <b>22 43 43 00-0001</b> Healthcare Plumbing Fixture Flushometers <small>(22 43 43)</small>   |                           |                         |
| 22 43 43 00-0002 EA Exposed Manual Service Sink Flush Valve (Sloan Royal-117).....   | 256.68                    | 48.08                   |
| 22 43 43 00-0003 EA Exposed Manual Water Closet Flush Valve With Bedpan Washer (Sloan Slimline BPW).....   | 535.70                    | 48.08                   |
| <b>22 43 46 Healthcare Patient Care Units</b> <small>(22 43)</small>   |                           |                         |



|  |                                     |              |
|--|-------------------------------------|--------------|
|  | <b>Plumbing</b>                     | <b>22</b>    |
|  | <b>Plumbing Fixtures</b>            | <b>22 40</b> |
|  | <b>Healthcare Plumbing Fixtures</b> | <b>22 43</b> |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                                  | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|---|----------------------|
| <b>22 43 46 00-0001</b> |     |     | <b>Patient Care Units</b> (22 43 46)  |   |                      |
| 22 43 46 00-0002        | EA  |     | 47" Swivel Toilet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-1700-AQCT-WB-BWSEV) .....<br>For SDB Single Temperature Dialysis Box, Add<br>For DDB Dual Temperature Dialysis Box, Add<br>For BWSEV Bedpan Washer With Elevated Valve, Add<br>For LOCK Flush Valve Lockout Device, Add        | 19,927.02<br>1,440.24<br>1,529.70<br>1,159.70<br>811.81 | 281.96               |
| 22 43 46 00-0003        | EA  |     | 31" Swing Front Cabinet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-2600-SST-DC-AQCT-WB) .....<br>For SDB Single Temperature Dialysis Box, Add<br>For DDB Dual Temperature Dialysis Box, Add<br>For BWSEV Bedpan Washer With Elevated Valve, Add<br>For LOCK Flush Valve Lockout Device, Add | 15,720.26<br>1,440.24<br>1,529.70<br>1,159.70<br>811.81 | 246.72               |
| <b>22 43 46 00-0004</b> |     |     | <b>Patient Care Plumbing Accessories</b> (22 43 46)   |   |                      |
| 22 43 46 00-0005        | EA  |     | One Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7920) .....   | 1,893.47  | 38.28                |
| 22 43 46 00-0006        | EA  |     | Two Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7919) .....   | 2,084.45  | 38.28                |
| <b>22 45</b>            |     |     | <b>Emergency Plumbing Fixtures</b> (22 40)  |   |                      |
| <b>22 45 13</b>         |     |     | <b>Emergency Showers</b> (22 45)  |   |                      |
| <b>22 45 13 00-0001</b> |     |     | <b>Emergency Drench Showers</b> (22 45 13)  |   |                      |
| <b>22 45 13 00-0002</b> |     |     | <b>Emergency Drench Showers (Haws)</b> (22 45 13 00-0001)   |   |                      |
|                         |     |     | Note: Includes one pull rod.  |   |                      |
| 22 45 13 00-0003        | EA  |     | Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122) .....  | 820.90  | 246.72               |
| 22 45 13 00-0004        | EA  |     | Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8123) .....  | 922.52  | 246.72               |
| 22 45 13 00-0005        | EA  |     | Horizontal Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122HWC) .....   | 978.98  | 246.72               |
| 22 45 13 00-0006        | EA  |     | Horizontal Or Vertical Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8130) .....   | 1,148.36  | 246.72               |
| 22 45 13 00-0007        | EA  |     | Horizontal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8133H) .....   | 1,498.40  | 246.72               |
| 22 45 13 00-0008        | EA  |     | Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8100) .....   | 1,230.14  | 281.96               |
| 22 45 13 00-0009        | EA  |     | Wall Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Stainless Steel Push Flag (Haws 8111FP) .....  | 1,351.44  | 317.21               |
| 22 45 13 00-0010        | EA  |     | Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8169) .....  | 1,244.17  | 317.21               |
| 22 45 13 00-0011        | EA  |     | Concealed Ceiling Supply, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8163) .....  | 1,266.76  | 317.21               |
| 22 45 13 00-0012        | EA  |     | Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Pull Down Lever Ball Valve Mounted In A Recessed Stainless Steel Cabinet (Haws 8164) .....   | 1,690.19  | 317.21               |
| <b>22 45 13 00-0013</b> |     |     | <b>Emergency Drench Showers (Speakman)</b> (22 45 13 00-0001)   |   |                      |
|                         |     |     | Note: Includes one pull rod.  |   |                      |
| 22 45 13 00-0014        | EA  |     | Vertical Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-220) .....  | 740.70  | 246.72               |
| 22 45 13 00-0015        | EA  |     | Horizontal Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-227) .....  | 759.16  | 246.72               |
| 22 45 13 00-0016        | EA  |     | Floor Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-253) .....   | 1,139.49  | 281.96               |
| <b>22 45 13 00-0017</b> |     |     | <b>Emergency Drench Showers (WaterSaver)</b> (22 45 13 00-0001)   |   |                      |
|                         |     |     | Note: Includes one pull rod.  |   |                      |
| 22 45 13 00-0018        | EA  |     | Emergency Shower, Vertically Mounted (WaterSaver ES635) .....   | 966.41  | 246.72               |
| 22 45 13 00-0019        | EA  |     | Emergency Shower, Horizontally Mounted (WaterSaver ES643) .....   | 987.10  | 246.72               |
| 22 45 13 00-0020        | EA  |     | All-Stainless Steel, Emergency Shower, Horizontally Mounted (WaterSaver ES691) .....  | 2,000.00  | 246.72               |
| 22 45 13 00-0021        | EA  |     | Emergency Shower, Recess Mounted (WaterSaver ES629) .....   | 1,504.07  | 317.21               |
| 22 45 13 00-0022        | EA  |     | Emergency Shower, Semi-Concealed (WaterSaver ES658) .....   | 1,972.05  | 317.21               |
| <b>22 45 16</b>         |     |     | <b>Eyewash Equipment</b> (22 45)  |   |                      |
| <b>22 45 16 00-0001</b> |     |     | <b>Emergency Eyewash Equipment</b> (22 45 16)   |   |                      |
| <b>22 45 16 00-0002</b> |     |     | <b>Emergency Eyewash Equipment (Haws)</b> (22 45 16 00-0001)  |   |                      |
| 22 45 16 00-0003        | EA  |     | Faucet Mounted, Stainless Steel Emergency Eyewash (Haws Axion® eyePOD® 7620) .....  | 307.68  | 7.05                 |
| 22 45 16 00-0004        | EA  |     | Wall Mounted, Freeze Protected, Emergency Eye Wash With Soft-Flo Heads And Stainless Steel Bowl (Haws 7433FP) .....   | 1,599.86  | 317.21               |
| <b>22 45 16 00-0005</b> |     |     | <b>Emergency Eyewash Equipment (WaterSaver)</b> (22 45 16 00-0001)  |   |                      |
| 22 45 16 00-0006        | EA  |     | Auto Flow, Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805) .....   | 886.27  | 70.49                |
| 22 45 16 00-0007        | EA  |     | Auto Flow, Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805LH) .....  | 886.27  | 70.49                |
| 22 45 16 00-0008        | EA  |     | Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806) .....  | 901.94  | 70.49                |
| 22 45 16 00-0009        | EA  |     | Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806LH) .....   | 901.94  | 70.49                |
| 22 45 16 00-0010        | EA  |     | Stainless Steel Bowl, Emergency Eye Wash, Deck Mounted (WaterSaver EW822) .....   | 1,189.64  | 70.49                |
| 22 45 16 00-0011        | EA  |     | Swing-Down, Auto Flow, Emergency Eye Wash, Wall Mounted (WaterSaver EW848) .....  | 1,351.72  | 70.49                |
| 22 45 16 00-0012        | EA  |     | Swing-Down, Auto Flow, Emergency Eye Wash, Deck Mounted (WaterSaver EW849) .....  | 1,351.72  | 70.49                |
| 22 45 16 00-0013        | EA  |     | Right Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893) .....   | 2,482.12  | 70.49                |

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| <b>22</b>    | <b>Plumbing</b>                    |
| <b>22 40</b> | <b>Plumbing Fixtures</b>           |
| <b>22 45</b> | <b>Emergency Plumbing Fixtures</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 45 16 00-0014 EA Left Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893LH).....   | 2,482.12                  | 70.49                   |
| 22 45 16 00-0015 EA Right Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895).....   | 2,596.16                  | 70.49                   |
| 22 45 16 00-0016 EA Left Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver<br>EW895LH).....   | 2,596.16                  | 70.49                   |
| 22 45 16 00-0017 EA Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Wall Mounted (WaterSaver EW898).....  | 3,196.29                  | 70.49                   |
| 22 45 16 00-0018 EA Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW899).....  | 3,196.29                  | 70.49                   |
| 22 45 16 00-0019 EA Ball Valve With Flag Handle, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW808).....  | 1,675.99                  | 246.72                  |
| 22 45 16 00-0020 EA Push-Down Valve, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW810).....  | 1,653.87                  | 246.72                  |
| 22 45 16 00-0021 EA Stainless Steel Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814).....  | 1,217.88                  | 246.72                  |
| 22 45 16 00-0022 EA Stainless Steel Bowl And Cover, Emergency Eye Wash, Wall Mounted (WaterSaver EW814BC).....  | 1,677.66                  | 246.72                  |
| 22 45 16 00-0023 EA Plastic Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814P).....   | 1,053.72                  | 246.72                  |
| <b>22 45 23 Personal Eyewash Equipment (22 45)</b>  |                           |                         |
| 22 45 23 00-0001 Portable Eyewash Equipment (22 45 23)  |                           |                         |
| 22 45 23 00-0002 Portable Eyewash Equipment (Bradley) (22 45 23 00-0001)  |                           |                         |
| 22 45 23 00-0003 EA Wall Mounted, Portable Gravity Fed Eyewash Unit With Clear Tank (Bradley S19-921).....  | 314.69                    | 21.15                   |
| 22 45 23 00-0004 EA Wall Mounted, Portable Gravity Fed Eyewash Unit With Insulated Heater Jacket (Bradley S19-921H).....  | 1,605.89                  | 21.15                   |
| 22 45 23 00-0005 EA 5 Gallon Portable Pressurized Tank With Eyewash Only (Bradley S19-671).....   | 727.80                    |                         |
| 22 45 23 00-0006 EA 5 Gallon Portable Pressurized Tank With Eyewash And 8' Drench Hose For Facewash (Bradley S19-672).....  | 868.20                    |                         |
| <b>22 45 26 Eye/Face Wash Equipment (22 45)</b>   |                           |                         |
| 22 45 26 00-0001 Emergency Eye/Face Wash Equipment (22 45 26)   |                           |                         |
| 22 45 26 00-0002 Emergency Eye/Face Wash Equipment (Haws) (22 45 26 00-0001)  |                           |                         |
| 22 45 26 00-0003 EA Unmounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl<br>(Haws 7460).....  | 843.64                    | 176.23                  |
| Note: Excludes p-trap and tailpiece.  |                           |                         |
| 22 45 26 00-0004 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly Without Receptor (Haws<br>7324).....   | 883.00                    | 246.72                  |
| 22 45 26 00-0005 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws<br>7260B-7270B).....  | 866.07                    | 246.72                  |
| Note: Excludes p-trap and tailpiece.  |                           |                         |
| 22 45 26 00-0006 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws<br>7260BT-7270BT).....  | 932.69                    | 246.72                  |
| Note: Excludes p-trap and tailpiece.  |                           |                         |
| 22 45 26 00-0007 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl<br>(Haws 7360B-7460B).....  | 939.46                    | 246.72                  |
| Note: Excludes p-trap and tailpiece.  |                           |                         |
| 22 45 26 00-0008 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl<br>(Haws 7360BT-7460BT).....  | 1,019.63                  | 246.72                  |
| Note: Excludes p-trap and tailpiece.  |                           |                         |
| 22 45 26 00-0009 EA Wall Mounted, Barrier-Free, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless<br>Steel Bowl (Haws 7360BTWC).....   | 1,340.32                  | 246.72                  |
| 22 45 26 00-0010 EA Wall Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash<br>Head Assembly And Stainless Steel Bowl And Dust Cover (Haws 7778B).....       | 2,413.03                  | 246.72                  |
| 22 45 26 00-0011 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws<br>7261-7271).....  | 1,072.06                  | 281.96                  |
| 22 45 26 00-0012 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel<br>Bowl (Haws 7361-7461).....  | 1,201.91                  | 281.96                  |
| 22 45 26 00-0013 EA Pedestal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash<br>Head Assembly And Stainless Steel Bowl (Haws 7777).....                   | 2,511.75                  | 281.96                  |
| 22 45 26 00-0014 EA Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7611).....   | 666.04                    | 70.49                   |
| 22 45 26 00-0015 EA Right Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash<br>Head Assembly (Haws 7612).....   | 643.46                    | 70.49                   |
| 22 45 26 00-0016 EA Left Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head<br>Assembly (Haws 7612LH).....  | 671.69                    | 70.49                   |
| 22 45 26 00-0017 EA Wall Or Deck Mounted, Barrier-Free, Swing-Down, Emergency Eye/Face Wash With Axion® MSR Wash Head<br>Assembly (Haws 7610).....  | 835.42                    | 70.49                   |
| 22 45 26 00-0018 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head<br>Assembly And Stainless Steel Cabinet (Haws 7655WCC).....                         | 2,127.66                  | 352.45                  |
| 22 45 26 00-0019 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash<br>Head Assembly And Stainless Steel Cabinet (Haws 7655WCCSM).....               | 2,500.46                  | 281.96                  |
| 22 45 26 00-0020 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head<br>Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCC).....           | 2,601.92                  | 352.45                  |
| 22 45 26 00-0021 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash<br>Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCCSM)..... | 2,986.00                  | 281.96                  |
| 22 45 26 00-0022 Emergency Eye/Face Wash Equipment (Speakman) (22 45 26 00-0001)  |                           |                         |
| 22 45 26 00-0023 EA Wall Mounted, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-495).....  | 817.64                    | 246.72                  |
| 22 45 26 00-0024 EA Floor Mounted, DuraJade™ Finish, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-<br>496).....   | 991.75                    | 281.96                  |
| 22 45 26 00-0025 Emergency Eye/Face Wash Equipment (WaterSaver) (22 45 26 00-0001)  |                           |                         |
| 22 45 26 00-0026 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl, Wall Mounted (WaterSaver FE724).....  | 1,506.41                  | 246.72                  |
| 22 45 26 00-0027 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl And Cover, Wall Mounted (WaterSaver<br>FE724BC).....   | 1,966.20                  | 246.72                  |



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| <b>Plumbing</b>                    | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>           | <b>22 40</b> |           |
| <b>Emergency Plumbing Fixtures</b> | <b>22 45</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 45 26 00-0028 EA Wide Area, Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE727).....  | 1,907.75                  | 246.72                  |
| 22 45 26 00-0029 EA Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE765).....   | 1,768.27                  | 246.72                  |
| 22 45 26 00-0030 EA Auto Flow, Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774).....   | 931.90                    | 70.49                   |
| 22 45 26 00-0031 EA Auto Flow, Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774LH).....  | 931.90                    | 70.49                   |
| 22 45 26 00-0032 EA Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775).....  | 904.69                    | 70.49                   |
| 22 45 26 00-0033 EA Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775LH).....   | 904.69                    | 70.49                   |
| 22 45 26 00-0034 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Wall Mounted (WaterSaver FE778).....  | 1,372.17                  | 70.49                   |
| 22 45 26 00-0035 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE779).....  | 1,372.17                  | 70.49                   |
| <b>22 45 26 00-0036 Emergency Eye/Face Wash Equipment (Guardian) (22 45 26 00-0001)</b><br>Note: Includes one pull rod.   |                           |                         |
| 22 45 26 00-0037 EA All-Stainless Steel Handicapped Accessible Safety Station With WideArea™ Eye/Face Wash (Guardian GBF1994).....  | 5,646.98                  | 246.72                  |
| <b>22 45 29 Hand-Held Emergency Drench Hoses (22 45)</b>  |                           |                         |
| <b>22 45 29 00-0001 Hand-Held Emergency Eye/Face/Body Wash With Hose (22 45 29)</b>   |                           |                         |
| <b>22 45 29 00-0002 Hand-Held Emergency Eye/Face/Body Wash With Hose (Haws) (22 45 29 00-0001)</b>  |                           |                         |
| 22 45 29 00-0003 EA Counter Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 8' Hose (Haws 8904).....   | 718.23                    | 88.11                   |
| 22 45 29 00-0004 EA Wall Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 12' Recoil Hose (Haws 8905).....  | 819.86                    | 88.11                   |
| <b>22 45 29 00-0005 Hand-Held Emergency Eye/Face/Body Wash With Hose (WaterSaver) (22 45 29 00-0001)</b>  |                           |                         |
| 22 45 29 00-0006 EA Emergency Drench Hose Unit, Deck Mounted (WaterSaver EW1020).....   | 724.57                    | 88.11                   |
| 22 45 29 00-0007 EA Emergency Drench Hose Unit, Wall Mounted (WaterSaver EW1025).....   | 669.96                    | 88.11                   |
| 22 45 29 00-0008 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1014).....  | 991.25                    | 88.11                   |
| 22 45 29 00-0009 EA Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1022).....  | 930.48                    | 88.11                   |
| 22 45 29 00-0010 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1026).....  | 952.24                    | 88.11                   |
| 22 45 29 00-0011 EA Ball Valve With Flag Handle, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028).....   | 1,238.75                  | 88.11                   |
| 22 45 29 00-0012 EA Ball Valve With Flag Handle And Vacuum Breaker, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028VB).....  | 1,429.30                  | 88.11                   |
| 22 45 29 00-0013 EA Emergency Eye Wash Drench Hose Unit, 45 Degree Panel Mounted (WaterSaver EW1041).....   | 1,364.68                  | 88.11                   |
| <b>22 45 33 Combination Emergency Fixture Units (22 45)</b>   |                           |                         |
| <b>22 45 33 00-0001 Emergency Shower With Eye/Face Wash (22 45 33)</b>  |                           |                         |
| <b>22 45 33 00-0002 Emergency Shower With Eye/Face Wash (Haws) (22 45 33 00-0001)</b>   |                           |                         |
| 22 45 33 00-0003 EA Floor Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8330).....                        | 4,219.19                  | 458.19                  |
| 22 45 33 00-0004 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300FP).....<br>Note: Includes freeze protection bury valve.                       | 2,931.94                  | 458.19                  |
| 22 45 33 00-0005 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300-8309).....   | 2,113.29                  | 458.19                  |
| 22 45 33 00-0006 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300.158).....   | 3,225.52                  | 458.19                  |
| 22 45 33 00-0007 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300CRP-8309CRP).....                                      | 2,429.46                  | 458.19                  |
| 22 45 33 00-0008 EA Floor Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8309WC).....  | 2,299.60                  | 458.19                  |
| 22 45 33 00-0009 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317).....   | 2,000.37                  | 458.19                  |
| 22 45 33 00-0010 EA Floor Mounted, Corrosion Resistant, PVC Plastic, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8336).....  | 3,123.90                  | 458.19                  |
| 22 45 33 00-0011 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCC).....                             | 3,400.54                  | 458.19                  |
| 22 45 33 00-0012 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCW).....                                | 3,462.65                  | 458.19                  |
| 22 45 33 00-0013 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCC).....               | 3,840.92                  | 458.19                  |
| 22 45 33 00-0014 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan, Daylight Drain And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCDD)..... | 4,061.11                  | 458.19                  |
| 22 45 33 00-0015 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCW).....                  | 3,999.00                  | 458.19                  |
| 22 45 33 00-0016 EA Floor Mounted, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP).....   | 5,862.13                  | 458.19                  |
| 22 45 33 00-0017 EA Floor Mounted, 220 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP.220V).....  | 6,167.01                  | 458.19                  |



**22 Plumbing****22 40 Plumbing Fixtures****22 45 Emergency Plumbing Fixtures**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 45 33 00-0018 EA Floor Mounted, C1D1 Rated, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFPC1D1)..... | 12,772.65                 | 458.19                  |
| 22 45 33 00-0019 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320-8325).....   | 2,000.37                  | 458.19                  |
| 22 45 33 00-0020 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320CRP).....                        | 2,231.85                  | 458.19                  |
| <b>22 45 33 00-0021 Emergency Shower With Eye/Face Wash (Speakman)</b> (22 45 33 00-0001)   |                           |                         |
| 22 45 33 00-0022 EA Floor Mounted, Emergency Drench Shower With Plastic Showerhead And Eye/Face Wash With Plastic Bowl (Speakman SE-690).....   | 1,914.51                  | 458.19                  |
| <b>22 45 33 00-0023 Emergency Shower With Eye/Face Wash (WaterSaver)</b> (22 45 33 00-0001)   |                           |                         |
| 22 45 33 00-0024 EA All-Stainless Steel, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS994).....  | 6,459.77                  | 382.83                  |
| 22 45 33 00-0025 EA Polished Chrome Construction, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS909PCC).....  | 6,598.34                  | 382.83                  |
| 22 45 33 00-0026 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl, Floor Mounted (WaterSaver SS902).....  | 2,693.12                  | 382.83                  |
| 22 45 33 00-0027 EA Emergency Shower With Eye Wash Station And Plastic Bowl, Floor Mounted (WaterSaver SS902P).....   | 2,477.53                  | 382.83                  |
| 22 45 33 00-0028 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl And Cover, Floor Mounted (WaterSaver SS902BC).....  | 3,152.91                  | 382.83                  |
| <b>22 45 36 Emergency Fixture Water-Tempering Equipment</b> (22 45)   |                           |                         |
| <b>22 45 36 00-0001 Emergency Fixture Water-Tempering Equipment</b> (22 45 36)  |                           |                         |
| <b>22 45 36 00-0002 Emergency Fixture Water-Tempering Equipment (Haws)</b> (22 45 36 00-0001)   |                           |                         |
| 22 45 36 00-0003 EA 10 GPM, 1/2" Inlet, 1/2" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EV).....   | 757.75                    | 88.11                   |
| 22 45 36 00-0004 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EFE).....  | 1,090.86                  | 88.11                   |
| 22 45 36 00-0005 EA 31 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201E).....  | 1,582.05                  | 88.11                   |
| 22 45 36 00-0006 EA 78 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9202E).....  | 1,858.69                  | 88.11                   |
| 22 45 36 00-0007 EA 31 GPM, 1" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws 9201H).....   | 2,615.24                  | 88.11                   |
| 22 45 36 00-0008 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Secondary High Temperature Limit Valve, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.EWE).....   | 2,756.38                  | 88.11                   |
| 22 45 36 00-0009 EA 74 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.SHE).....  | 4,602.58                  | 88.11                   |
| 22 45 36 00-0010 EA 78 GPM, 2" Inlet, 2" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.HF).....   | 5,522.85                  | 88.11                   |
| 22 45 36 00-0011 EA 1/2" Inlet, 1/2" Outlet, Brass Scald Protection Bleed Valve (Haws SP157B).....  | 842.44                    | 88.11                   |
| <b>22 45 39 Emergency Plumbing Fixture Accessories</b> (22 45)  |                           |                         |
| <b>22 45 39 00-0001 Emergency Plumbing Fixture Accessories</b> (22 45 39)   |                           |                         |
| <b>22 45 39 00-0002 Emergency Plumbing Fixture Accessories (Haws)</b> (22 45 39 00-0001)  |                           |                         |
| 22 45 39 00-0003 EA Pedestal Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220).....   | 197.54                    | 28.20                   |
| 22 45 39 00-0004 EA Wall Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220W).....  | 270.93                    | 28.20                   |
| 22 45 39 00-0005 EA Pedestal Mounted, Stainless Steel Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220SS).....  | 282.22                    | 28.20                   |
| 22 45 39 00-0006 EA Axion® MSR Stainless Steel Showerhead For Emergency Drench Showers (Haws SP829SS).....  | 303.44                    | 10.57                   |
| 22 45 39 00-0007 EA Stainless Steel Dust Cover For Emergency Eye/Face Wash Bowls (Haws 9102).....   | 307.68                    | 7.05                    |
| 22 45 39 00-0008 EA 3-Sided ABS Plastic Safety Sign For Emergency Combination Shower And Eyewash Units (Haws 9020).....   | 338.72                    | 14.10                   |
| 22 45 39 00-0009 EA Emergency Body Spray Kit With 8' Hose And ABS Plastic Head For Emergency Plumbing Fixtures (Haws 8901RFK).....  | 634.91                    | 105.74                  |
| 22 45 39 00-0010 EA Class 1, Div. 1, Group B, C And D, Indicator Light For Emergency Plumbing Fixtures (Haws 8317IDLTEXP).....  | 623.12                    | 46.21                   |
| 22 45 39 00-0011 EA Vapor Tight And Gasketed, Green Area Light For Emergency Plumbing Fixtures (Haws 8317LT).....   | 916.70                    | 46.21                   |
| 22 45 39 00-0012 EA Privacy Curtain For Horizontal Emergency Drench Shower Or Combination Emergency Drench Shower And Eyewash Units (Haws 9037).....  | 1,090.86                  | 105.74                  |
| 22 45 39 00-0013 EA Class 1, Div. 1, Group B, C And D, White Area Light For Emergency Plumbing Fixtures (Haws 8317LTEXP).....   | 2,017.64                  | 46.21                   |
| 22 45 39 00-0014 EA 1/2" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001.5).....  | 2,284.09                  | 154.02                  |
| 22 45 39 00-0015 EA 1-1/4" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001).....  | 2,329.25                  | 154.02                  |
| 22 45 39 00-0016 EA 1-1/4" Supply, Class 1, Division 2, Groups B, C, And D Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXP).....   | 4,260.14                  | 154.02                  |
| 22 45 39 00-0017 EA 1-1/4" Supply, 90 db, Class 1, Division 1, Groups C And D, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXPC1D1).....   | 8,042.85                  | 154.02                  |
| <b>22 45 39 00-0018 Emergency Plumbing Fixture Accessories (Speakman)</b> (22 45 39 00-0001)  |                           |                         |
| 22 45 39 00-0019 EA Privacy Curtain For Emergency Showers.....  | 1,138.58                  | 105.74                  |
| Note: Curtain includes stainless steel curtain rod and mounting accessories.  |                           |                         |
| <b>22 45 39 00-0020 Emergency Plumbing Fixture Accessories (WaterSaver)</b> (22 45 39 00-0001)  |                           |                         |
| 22 45 39 00-0021 EA Hand And Foot Control For Emergency Eyewash Equipment (WaterSaver HFC).....   | 191.84                    | 22.97                   |



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|  | <b>Plumbing</b>                   | <b>22</b>    |
|  | <b>Plumbing Fixtures</b>          | <b>22 40</b> |
|  | <b>Security Plumbing Fixtures</b> | <b>22 46</b> |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**22 46 Security Plumbing Fixtures** (22 40)**22 46 13 Security Water Closets and Urinals** (22 46)**22 46 13 13 Security Water Closets** (22 46 13)**22 46 13 13-0001 Security Water Closets** (22 46 13 13)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 22 46 13 13-0002 | EA | Security Water Closet, Integral Seat, Back Supply And Flush Valve, Wall Hung, Wall Outlet, Cast Aluminum (Acorn 1675).....    | 3,228.93 | 352.45 |
|                  |    | <i>For Angled Toilet, Add</i>   | 35.25    |        |
|                  |    | <i>For Offset Toilet, Add</i>   | 287.65   |        |
| 22 46 13 13-0003 | EA | Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Wall Outlet, Cast Aluminum (Acorn 1684).....  | 3,879.08 | 352.45 |
|                  |    | <i>For Angled Toilet, Add</i>   | 35.25    |        |
|                  |    | <i>For Offset Toilet, Add</i>   | 352.66   |        |
| 22 46 13 13-0004 | EA | Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Floor Outlet, Cast Aluminum (Acorn 1695)..... | 3,936.04 | 352.45 |
|                  |    | <i>For Angled Toilet, Add</i>   | 35.25    |        |
|                  |    | <i>For Offset Toilet, Add</i>   | 358.36   |        |
| 22 46 13 13-0005 | EA | Recessed Tissue Holder For Security Water Closet, Stainless Steel (Acorn 1840).....   | 374.62   | 70.49  |

**22 46 13 16 Security Urinals** (22 46 13)**22 46 13 16-0001 Security Urinals** (22 46 13 16)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 22 46 13 16-0002 | EA | Security Urinal, Back Supply And Flush, Wall Hung, Stainless Steel (Acorn 1700)..... | 3,783.06 | 317.21 |
| 22 46 13 16-0003 | EA | Security Urinal, Back Supply And Flush, Stall, Stainless Steel (Acorn 1720).....     | 6,387.46 | 450.72 |

**22 46 13 19 Security Combination Toilet and Lavatory** (22 46 13)**22 46 13 19-0001 Security Combination Toilet - Lavatory** (22 46 13 19)

|                  |    |  |           |        |
|------------------|----|--|-----------|--------|
| 22 46 13 19-0002 | EA | 15" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1415).....  | 5,780.69  | 437.04 |
|                  |    | <i>For Angled Toilet, Add</i>  | 43.70     |        |
|                  |    | <i>For Offset Toilet, Add</i>  | 534.37    |        |
|                  |    | <i>For 15" Mirror/Shelf Module, Add</i>  | 987.04    |        |
|                  |    | <i>For AC Duplex Outlet Option, Add</i>  | 117.41    |        |
|                  |    | <i>For Intercom Option, Add</i>  | 162.41    |        |
|                  |    | <i>For 15" Wide Light/Ventilation Module, Add</i>  | 897.22    |        |
| 22 46 13 19-0003 | EA | 18" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1418).....  | 5,958.51  | 458.19 |
|                  |    | <i>For Angled Toilet, Add</i>  | 45.82     |        |
|                  |    | <i>For Offset Toilet, Add</i>  | 550.03    |        |
|                  |    | <i>For 18" Mirror/Shelf Module, Add</i>  | 1,033.19  |        |
|                  |    | <i>For AC Duplex Outlet Option, Add</i>  | 121.64    |        |
|                  |    | <i>For Intercom Option, Add</i>  | 166.64    |        |
|                  |    | <i>For 18" Wide Light/Ventilation Module, Add</i>  | 924.91    |        |
| 22 46 13 19-0004 | EA | 20" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1420).....  | 6,095.09  | 479.34 |
|                  |    | <i>For Angled Toilet, Add</i>  | 47.93     |        |
|                  |    | <i>For Offset Toilet, Add</i>  | 561.58    |        |
|                  |    | <i>For 20" Mirror/Shelf Module, Add</i>  | 1,089.34  |        |
|                  |    | <i>For AC Duplex Outlet Option, Add</i>  | 125.87    |        |
|                  |    | <i>For Intercom Option, Add</i>  | 170.87    |        |
|                  |    | <i>For 20" Wide Light/Ventilation Module, Add</i>  | 962.60    |        |
| 22 46 13 19-0005 | EA | 26" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1426).....  | 6,518.44  | 500.48 |
|                  |    | <i>For Angled Toilet, Add</i>  | 50.05     |        |
|                  |    | <i>For Offset Toilet, Add</i>  | 601.80    |        |
|                  |    | <i>For 26" Mirror/Shelf Module, Add</i>  | 1,135.48  |        |
|                  |    | <i>For AC Duplex Outlet Option, Add</i>  | 130.10    |        |
|                  |    | <i>For Intercom Option, Add</i>  | 175.10    |        |
|                  |    | <i>For 26" Wide Light/Ventilation Module, Add</i>  | 995.29    |        |
| 22 46 13 19-0006 | EA | 28" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Floor Mounted, Stainless Steel (Acorn 1428)..... | 10,404.69 | 521.63 |
|                  |    | <i>For Angled Toilet, Add</i>  | 52.16     |        |
|                  |    | <i>For Offset Toilet, Add</i>  | 988.31    |        |
|                  |    | <i>For 28" Mirror/Shelf Module, Add</i>  | 1,176.63  |        |
|                  |    | <i>For AC Duplex Outlet Option, Add</i>  | 134.33    |        |
|                  |    | <i>For Intercom Option, Add</i>  | 179.33    |        |
|                  |    | <i>For 28" Wide Light/Ventilation Module, Add</i>  | 1,027.98  |        |

**22 46 16 Security Lavatories and Sinks** (22 46)**22 46 16 13 Security Lavatories** (22 46 16)**22 46 16 13-0001 Security Lavatories** (22 46 16 13)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 22 46 16 13-0002 | EA | 20" Security Lavatory, Wall Hung, Push Button Filler Valve, Rectangular Bowl, Stainless Steel (Acorn 1650)..... | 2,324.61 | 246.72 |
|                  |    | <i>For Shelf, Add</i>   | 109.02   |        |
| 22 46 16 13-0003 | EA | 18" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Stainless Steel (Acorn 1655).....        | 2,362.32 | 246.72 |
|                  |    | <i>For Shelf, Add</i>   | 109.02   |        |

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|--------------|-----------------------------------|
| <b>22</b>    | <b>Plumbing</b>                   |
| <b>22 40</b> | <b>Plumbing Fixtures</b>          |
| <b>22 46</b> | <b>Security Plumbing Fixtures</b> |



| MINOR<br>CSI   | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|-----|--|---------------------------|-------------------------|
| 22 46 16 13-0004   | EA  | 13" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Corner Mount, Stainless Steel (Acorn 1660).....   | 2,680.79                  | 246.72                  |
|  |     | <i>For Shelf, Add</i> .....  | 109.02                    |                         |
| 22 46 16 13-0005   | EA  | 18" Security Lavatory, Wall Hung, Push Button Filler Valve, Multi Sided Bowl, Stainless Steel (Acorn 1656).....  | 2,362.32                  | 246.72                  |
|  |     | <i>For Shelf, Add</i> .....  | 109.02                    |                         |
| <b>22 46 16 16 Security Sinks (22 46 16)</b>                                     |     |  |                           |                         |
| <b>22 46 16 16-0001 Security Sinks (22 46 16 16)</b>                             |     |  |                           |                         |
| 22 46 16 16-0002   | EA  | 22" x 16" x 10" Security Service Sink, With Soap Dish, Stainless Steel (Acorn 1642).....   | 4,946.01                  | 375.71                  |
| <b>22 46 16 16-0003 Security Mop Sink (22 46 16 16)</b>                          |     |  |                           |                         |
| 22 46 16 16-0004   | EA  | 24" x 24" x 10" Stainless Steel Mop Sink With Strainer (ACORN 1630).....   | 4,172.42                  | 211.47                  |
| <b>22 46 19 Security Showers (22 46)</b>   |     |  |                           |                         |
| 22 46 19 00-0001   | EA  | Security Shower Package For Built-in, Hot And Cold Faucets, Mixing Valve, Rectangular Soap Dish, Stainless Steel (Acorn 1741).....   | 874.56                    | 188.21                  |
| 22 46 19 00-0002   | EA  | Security Shower Head With Mixing Valves And Piping Assembly In Wall (Acorn 1743).....  | 622.69                    | 98.69                   |
| 22 46 19 00-0003   | EA  | 30" Security Shower, Stainless Steel, Knock-Down (Acorn 1730-3M-KD).....   | 12,753.83                 | 563.93                  |
| 22 46 19 00-0004   | EA  | 32" Security Shower, Stainless Steel, Knock-Down (Acorn 1732-3M-KD).....   | 13,209.52                 | 563.93                  |
| 22 46 19 00-0005   | EA  | 36" Security Shower, Stainless Steel, Knock-Down (Acorn 1736-3M-KD).....   | 13,678.51                 | 563.93                  |
| 22 46 19 00-0006   | EA  | 36" ADA Security Shower, Stainless Steel, Front Access (Acorn 1736-ADA-3M-FA).....   | 17,350.68                 | 563.93                  |
| 22 46 19 00-0007   | EA  | Wall Mounted Security Shower, Stainless Steel (Acorn 452).....   | 1,308.09                  | 148.03                  |
|  |     | <i>For PWT Electronic FV, Add</i> .....  | 148.00                    |                         |
| 22 46 19 00-0008   | EA  | Wall Mounted ADA Security Shower, Stainless Steel (Acorn 452 ADA).....   | 1,572.01                  | 148.03                  |
|  |     | <i>For PWT Electronic FV, Add</i> .....  | 148.00                    |                         |
| <b>22 46 56 Security Drinking Fountains (22 46)</b>                              |     |  |                           |                         |
| <b>22 46 56 00-0001 Security Drinking Fountain (22 46 56)</b>                    |     |  |                           |                         |
|  |     | Note: Includes air control valve, bubbler with mouthguard and mounting bracket.  |                           |                         |
| 22 46 56 00-0002   | EA  | Wall Mounted Security Drinking Fountain, Stainless Steel (Acorn 1670-1-BP-3-FA).....   | 2,628.56                  | 281.96                  |
| 22 46 56 00-0003   | EA  | Wall Mounted Security ADA Drinking Fountain, Stainless Steel (Acorn 1672-1-ADA-BP-3-FA).....   | 2,646.75                  | 281.96                  |
| <b>22 47 Drinking Fountains and Water Coolers (22 40)</b>                        |     |  |                           |                         |
| <b>22 47 13 Drinking Fountains (22 47)</b>                                       |     |  |                           |                         |
| <b>22 47 13 00-0001 Indoor Drinking Fountains (22 47 13)</b>                     |     |  |                           |                         |
| <b>22 47 13 00-0002 Face Mounted Indoor Drinking Fountain (22 47 13 00-0001)</b> |     |  |                           |                         |
| 22 47 13 00-0003   | EA  | Stainless Steel, Standard Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-S).....                                   | 1,868.30                  | 229.09                  |
| 22 47 13 00-0004   | EA  | Stainless Steel, Standard Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-SBP).....                 | 2,668.77                  | 246.72                  |
| 22 47 13 00-0005   | EA  | Stainless Steel, Extended Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-E).....                                   | 2,418.36                  | 229.09                  |
| 22 47 13 00-0006   | EA  | Stainless Steel, Extended Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-EBP).....                 | 2,866.87                  | 246.72                  |
| 22 47 13 00-0007   | EA  | Stainless Steel, Standard Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRF).....  | 1,297.47                  | 229.09                  |
| 22 47 13 00-0008   | EA  | Stainless Steel, Standard Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners With Back Panel (Halsey-Taylor HRF5BP).....     | 1,535.13                  | 246.72                  |
| 22 47 13 00-0009   | EA  | Stainless Steel, Extended Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRF).....  | 1,449.65                  | 229.09                  |
| 22 47 13 00-0010   | EA  | Stainless Steel, Extended Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRF5BP).....                     | 1,740.82                  | 246.72                  |
| <b>22 47 13 00-0011 Wall Mounted Indoor Drinking Fountain (22 47 13 00-0001)</b> |     |  |                           |                         |
| 22 47 13 00-0012   | EA  | Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor 5701).....                               | 1,342.27                  | 246.72                  |
| 22 47 13 00-0013   | EA  | Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8WF)..... | 1,979.68                  | 246.72                  |
| 22 47 13 00-0014   | EA  | Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Halsey-Taylor HTHB-HAC8BLWF).....  | 2,512.04                  | 317.21                  |
| 22 47 13 00-0015   | EA  | Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Elkay VRCGRNTL8WSK).....   | 3,626.43                  | 317.21                  |
| 22 47 13 00-0016   | EA  | Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Elkay EZSTLG8WSLK).....  | 3,139.17                  | 317.21                  |
| 22 47 13 00-0017   | EA  | Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Elkay LZSTL8WSSP).....   | 2,870.65                  | 317.21                  |
| 22 47 13 00-0018   | EA  | Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LVRC8WSK).....                                | 3,183.82                  | 246.72                  |
| 22 47 13 00-0019   | EA  | Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Non-Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay VRC8WSK).....                    | 3,079.40                  | 246.72                  |
| 22 47 13 00-0020   | EA  | Stainless Steel Wall-Mounted Indoor Hands-Free Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LVRC8WSK).....                               | 2,951.79                  | 246.72                  |



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|---|--------------|-----------|
| <b>Plumbing</b>                             | <b>22</b>    |           |
| <b>Plumbing Fixtures</b>                    | <b>22 40</b> | <b>22</b> |
| <b>Drinking Fountains and Water Coolers</b> | <b>22 47</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 47 13 00-0021 EA Stainless Steel Wall-Mounted Indoor Hands-Free Non-Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay VRCDWSK).....                            | 2,835.77                  | 246.72                  |
| 22 47 13 00-0022 EA Stainless Steel Wall-Mounted High-Efficiency Indoor Chilled Hands-Free Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LVRCGRN8WSK).....    | 2,592.14                  | 246.72                  |
| 22 47 13 00-0023 EA Stainless Steel Wall-Mounted High-Efficiency Indoor Chilled Hands-Free Non-Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay VRCGRN8WSK)..... | 2,487.73                  | 246.72                  |
| 22 47 13 00-0024 EA Stainless Steel Wall-Mounted High-Efficiency Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZSG8WSSK).....                       | 2,371.71                  | 246.72                  |
| 22 47 13 00-0025 EA Stainless Steel Wall-Mounted Indoor Chilled Filtered Bottle Filling Station With Hands-Free Touchless Sensor Drinking Fountain (Elkay LZO8WSSK).....                       | 2,371.71                  | 246.72                  |
| 22 47 13 00-0026 EA Stainless Steel Wall-Mounted Indoor Chilled Non-Filtered Bottle Filling Station With Hands-Free Fountain (Elkay EZO8WSSK).....   | 2,267.30                  | 246.72                  |
| 22 47 13 00-0027 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Bottle Filling Station With Drinking Fountain (Elkay EZSG8WSSK).....  | 2,267.30                  | 246.72                  |
| 22 47 13 00-0028 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LMABF8WSSK).....                                      | 2,220.90                  | 246.72                  |
| 22 47 13 00-0029 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LZS8WVRSK).....                      | 2,220.90                  | 246.72                  |
| 22 47 13 00-0030 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Non-Filtered Bottle Filling Station With Drinking Fountain (Elkay EMABF8WSSK).....                                  | 2,116.48                  | 246.72                  |
| 22 47 13 00-0031 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZS8WSSK).....  | 2,058.48                  | 246.72                  |
| 22 47 13 00-0032 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZS8WSSP).....  | 1,977.27                  | 246.72                  |
| 22 47 13 00-0033 EA Stainless Steel Wall-Mounted Indoor Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZSDWSSK).....  | 1,942.46                  | 246.72                  |
| 22 47 13 00-0034 EA Stainless Steel Wall-Mounted Indoor Hands-Free Non-Filtered Bottle Filling Station With Drinking Fountain (Elkay EMABFDWSLK).....  | 1,826.45                  | 246.72                  |
| 22 47 13 00-0035 EA Vinyl Clad Cabinet, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountain (Elkay EMABF8WSLK).....  | 2,058.48                  | 246.72                  |
| 22 47 13 00-0036 EA Vinyl Clad Cabinet, Non-Chilled, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountain (Elkay EMABFDWSLK).....                                 | 1,826.45                  | 246.72                  |
| 22 47 13 00-0037 EA Vinyl Clad Cabinet, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountain (Elkay LZS8WSLK).....  | 1,928.71                  | 246.72                  |
| 22 47 13 00-0038 EA Vinyl Clad Cabinet, Stainless Steel Wall-Mounted Indoor, Bottle Filling Station With Drinking Fountain (Elkay LZS8WSLP).....   | 1,930.86                  | 246.72                  |
| 22 47 13 00-0039 EA Surface Mounted, Stainless Steel, Filtered Non-Refrigerated, Bottle Filling Station Kit (Elkay LZWSSM).....  | 1,581.04                  | 176.23                  |
| 22 47 13 00-0040 EA Wall Mounted, Non-Filtered Non-Refrigerated, Retrofit Bottle Filling Station Kit (Elkay EMABFWS-RF).....   | 1,209.80                  | 176.23                  |
| <b>22 47 13 00-0041 Semi-Recessed Indoor Drinking Fountain (22 47 13 00-0001)</b>  |                           |                         |
| 22 47 13 00-0042 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler (Halsey-Taylor 5801).....  | 1,762.66                  | 264.34                  |
| 22 47 13 00-0043 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C).....  | 3,599.31                  | 264.34                  |
| <b>22 47 13 00-0044 Fully Recessed Indoor Drinking Fountain (22 47 13 00-0001)</b>   |                           |                         |
| 22 47 13 00-0045 EA Stainless Steel Fully-Recessed, With Bubbler, Indoor Drinking Fountain (Halsey-Taylor 8880, Haws 2400).....  | 1,884.92                  | 281.96                  |
| 22 47 13 00-0046 EA Stainless Steel Fully-Recessed, With Bubbler And Cuspidor, Indoor Drinking Fountain (Halsey-Taylor 8800 With 10245, Haws 2403).....  | 3,293.97                  | 281.96                  |
| <b>22 47 13 00-0047 Countertop Indoor Drinking Fountain (22 47 13 00-0001)</b>   |                           |                         |
| 22 47 13 00-0048 EA Stainless Steel Countertop Circular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 10000).....  | 818.24                    | 176.23                  |
| 22 47 13 00-0049 EA Stainless Steel Countertop Rectangular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6000).....  | 791.72                    | 176.23                  |
| 22 47 13 00-0050 EA Stainless Steel Countertop Oval Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6028).....   | 937.08                    | 176.23                  |
| <b>22 47 13 00-0051 Bowl And Bracket Indoor Drinking Fountain (22 47 13 00-0001)</b>   |                           |                         |
| 22 47 13 00-0052 EA Stainless Steel, Bowl And Bracket With Pushbutton Bubbler, Indoor Drinking Fountain (Halsey-Taylor 2501A).....   | 707.90                    | 176.23                  |
| 22 47 13 00-0053 EA Stainless Steel, Bowl And Bracket, Self Closing Lever Handle Stop, Indoor Drinking Fountain (Halsey-Taylor 4540).....  | 831.12                    | 176.23                  |
| <b>22 47 13 00-0054 Multi-Station Indoor Drinking Fountain (22 47 13 00-0001)</b>  |                           |                         |
| 22 47 13 00-0055 EA Two Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7020).....                            | 3,415.99                  | 281.96                  |
| 22 47 13 00-0056 EA Three Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7030).....                          | 4,252.04                  | 281.96                  |
| 22 47 13 00-0057 EA Two Station, Marble, Face-Mounted Indoor Drinking Fountain With Bubblers (Halsey-Taylor 7120).....   | 3,266.27                  | 281.96                  |
| 22 47 13 00-0058 EA Two Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1430).....  | 2,781.49                  | 281.96                  |
| 22 47 13 00-0059 EA Three Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1435).....  | 3,458.43                  | 281.96                  |
| 22 47 13 00-0060 EA Bi-Level, Stainless Steel, Indoor Drinking Fountain With Bubblers And Back Panel (Halsey-Taylor HRFSEBP, Haws 1119.14 With 6700.4).....                                    | 3,083.18                  | 359.67                  |
| 22 47 13 00-0061 EA Two Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1441).....  | 5,514.19                  | 281.96                  |
| 22 47 13 00-0062 EA Three Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1408).....  | 5,418.81                  | 281.96                  |
| <b>22 47 13 00-0063 Outdoor Drinking Fountains (22 47 13)</b>  |                           |                         |
| <b>22 47 13 00-0064 Face Mounted Outdoor Drinking Fountains (22 47 13 00-0063)</b>   |                           |                         |

**22 Plumbing****22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 47 13 00-0065 EA Stainless Steel Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFE-FR).....                                       | 1,667.23                  | 281.96                  |
| 22 47 13 00-0066 EA Stainless Steel Freeze Resistant Face Mounted, With Back Panel, Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFEFBP-FR).....                  | 1,811.31                  | 281.96                  |
| 22 47 13 00-0067 EA Stone Aggregate Weather Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592).....   | 1,748.75                  | 281.96                  |
| 22 47 13 00-0068 EA Stone Aggregate Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592-FR).....                                       | 2,486.18                  | 281.96                  |
| 22 47 13 00-0069 EA Stainless Steel Face Mounted Outdoor Drinking Fountain With Bubbler (Oasis FLF140PM).....   | 1,490.85                  | 281.96                  |
| Note: For use with remote chillers  |                           |                         |
| <b>22 47 13 00-0070 Free Standing Outdoor Drinking Fountains (22 47 13 00-0063)</b>   |                           |                         |
| 22 47 13 00-0071 EA Steel Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715).....   | 3,002.55                  | 264.34                  |
| 22 47 13 00-0072 EA Steel Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715-FR).....   | 4,152.30                  | 264.34                  |
| 22 47 13 00-0073 EA Steel Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710).....  | 2,998.73                  | 264.34                  |
| 22 47 13 00-0074 EA Steel Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710-FR).....  | 4,078.86                  | 264.34                  |
| 22 47 13 00-0075 EA Steel Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720).....   | 4,395.16                  | 281.96                  |
| 22 47 13 00-0076 EA Steel Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720-FR).....                               | 4,471.94                  | 281.96                  |
| 22 47 13 00-0077 EA Stone Aggregate Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4591).....   | 1,758.97                  | 264.34                  |
| 22 47 13 00-0078 EA Stone Aggregate Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590).....  | 2,919.14                  | 264.34                  |
| 22 47 13 00-0079 EA Stone Aggregate Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590-FR).....                              | 4,068.89                  | 264.34                  |
| 22 47 13 00-0080 EA Stone Aggregate Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595).....   | 4,771.46                  | 281.96                  |
| 22 47 13 00-0081 EA Stone Aggregate Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595-FR).....                     | 6,627.36                  | 281.96                  |
| <b>22 47 16 Pressure Water Coolers (22 47)</b>  |                           |                         |
| <b>22 47 16 00-0001 Indoor Water Coolers (22 47 16)</b>   |                           |                         |
| <b>22 47 16 00-0002 Face Mounted Indoor Water Coolers (22 47 16 00-0001)</b>  |                           |                         |
| 22 47 16 00-0003 EA Stainless Steel, Semi-Circular Water Cooler With Bubbler, Face-Mounted, Extended Length, 180 Degree Push Bar, 7.5 GPH (Halsey-Taylor OVL-II ER-Q).....  | 3,431.19                  | 281.96                  |
| 22 47 16 00-0004 EA Stainless Steel, Semi-Circular Water Cooler, Electronic Sensor, Face-Mounted, Extended Length, With Bubbler, 7.5 GPH (Halsey-Taylor OVL-II EREE-Q)..... | 3,652.04                  | 281.96                  |
| <b>22 47 16 00-0005 Wall Mounted Indoor Water Coolers (22 47 16 00-0001)</b>  |                           |                         |
| 22 47 16 00-0006 EA Stainless Steel Wall-Mounted Compact Water Cooler, 4 GPH, With Bubbler, (Halsey-Taylor SW4A-Q).....   | 1,720.31                  | 281.96                  |
| 22 47 16 00-0007 EA Stainless Steel Wall-Mounted Compact Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SW8A-Q).....  | 1,777.19                  | 281.96                  |
| 22 47 16 00-0008 EA Stainless Steel Wall-Mounted Compact Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SW14A-Q).....  | 1,955.38                  | 281.96                  |
| 22 47 16 00-0009 EA Stainless Steel Wall-Mounted Vandal Resistant Compact Water Cooler With Bubbler, 8 GPH (Halsey-Taylor SW8A-VR-Q-SS).....                                | 2,023.63                  | 281.96                  |
| 22 47 16 00-0010 EA Stainless Steel Wall-Mounted Vandal Resistant Barrier Free Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8-CHILD ADA).....                         | 1,542.12                  | 281.96                  |
| 22 47 16 00-0011 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor WC8AFS-Q-SS).....                     | 1,760.12                  | 281.96                  |
| 22 47 16 00-0012 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor HAC8FS-Q Child SS).....               | 1,419.84                  | 281.96                  |
| 22 47 16 00-0013 EA Stainless Steel Wall-Mounted Water Cooler, 8 GPH, With Bubbler, (Halsey-Taylor HAC8VR-BL).....  | 2,052.37                  | 281.96                  |
| 22 47 16 00-0014 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level Indoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HAC8FSBL-Q-SS).....                        | 2,351.07                  | 422.94                  |
| <b>22 47 16 00-0015 Simulated Recessed Indoor Water Coolers (22 47 16 00-0001)</b>  |                           |                         |
| 22 47 16 00-0016 EA Stainless Steel Simulated Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RWM8A-Q).....  | 2,019.67                  | 281.96                  |
| <b>22 47 16 00-0017 Fully Recessed Indoor Water Coolers (22 47 16 00-0001)</b>  |                           |                         |
| 22 47 16 00-0018 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RC8A-Q).....   | 3,787.89                  | 317.21                  |
| 22 47 16 00-0019 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser, 8 GPH (Halsey-Taylor RC8AQ + 14762).....                                    | 4,585.65                  | 317.21                  |
| 22 47 16 00-0020 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser And Glass Filler, 8 GPH (Halsey-Taylor RC8A-Q-14700).....                    | 5,335.81                  | 317.21                  |
| <b>22 47 16 00-0021 Free Standing Indoor Water Coolers (22 47 16 00-0001)</b>   |                           |                         |
| 22 47 16 00-0022 EA Stainless Steel, Free-Standing Indoor Water Cooler, 4 GPH, With Bubbler (Halsey-Taylor SCWT4A-Q).....   | 1,643.18                  | 246.72                  |
| 22 47 16 00-0023 EA Stainless Steel, Free-Standing Indoor Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SCWT8A-Q).....   | 1,754.08                  | 246.72                  |
| 22 47 16 00-0024 EA Stainless Steel, Free-Standing Indoor Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SCWT14A-Q).....   | 1,971.14                  | 246.72                  |
| 22 47 16 00-0025 EA Stainless Steel, Free-Standing Vandal Resistant Water Cooler With Bubbler, 14 GPH (Halsey-Taylor SCWT14A-VR-Q).....                                     | 2,176.82                  | 246.72                  |
| <b>22 47 16 00-0026 Bottled Water Coolers (22 47 16 00-0001)</b>  |                           |                         |
| 22 47 16 00-0027 EA Free-Standing Bottled Water Cooler With Chilled Or Room Temperature Water.....  | 601.68                    | 140.98                  |
| 22 47 16 00-0028 EA Free-Standing Bottled Water Cooler With Chilled Or Hot Water.....   | 703.54                    | 140.98                  |



|   |              |           |
|---|--------------|-----------|
| <b>Plumbing</b>                             | <b>22</b>    | <b>22</b> |
| <b>Plumbing Fixtures</b>                    | <b>22 40</b> |           |
| <b>Drinking Fountains and Water Coolers</b> | <b>22 47</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| <b>22 47 16 00-0029</b> |     |     | <b>Multi-Station Indoor Water Coolers</b> (22 47 16 00-0001)   |                        |                      |
| 22 47 16 00-0030        | EA  |     | Stainless Steel, Wall Mounted, Two Station, Semi-Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II SER-Q) .....                    | 4,560.78               | 422.94               |
| 22 47 16 00-0031        | EA  |     | Stainless Steel, Wall Mounted, Two Station, Electronic Sensor Semi Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II-SEREE-Q)..... | 5,199.37               | 422.94               |
| 22 47 16 00-0032        | EA  |     | Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BL-CHILD ADA-SS) .....                       | 2,528.32               | 422.94               |
| <b>22 47 16 00-0033</b> |     |     | <b>Outdoor Water Coolers</b> (22 47 16)  |                        |                      |
| <b>22 47 16 00-0034</b> |     |     | <b>Wall Mounted Outdoor Water Coolers</b> (22 47 16 00-0033)   |                        |                      |
| 22 47 16 00-0035        | EA  |     | Stainless Steel, Wall Mounted, Barrier Free, Vandal Resistant, Frost Resistant Outdoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8FR-CHILD ADA-SS).....                 | 1,715.88               | 176.23               |
| 22 47 16 00-0036        | EA  |     | Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Outdoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BLFR-CHILD ADA-SS) .....                    | 2,877.54               | 176.23               |
| <b>22 47 16 00-0037</b> |     |     | <b>Free Standing Outdoor Water Coolers</b> (22 47 16 00-0033)  |                        |                      |
| 22 47 16 00-0038        | EA  |     | Stainless Steel Free-Standing Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-Q) .....   | 2,815.83               | 264.34               |
| 22 47 16 00-0039        | EA  |     | Stainless Steel Free-Standing Frost Resistant Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-FR-Q) .....  | 3,346.63               | 264.34               |
| <b>22 47 16 00-0040</b> |     |     | <b>Removal And Reinstallation Of Fixtures And Trim</b> (22 47 16)  |                        |                      |
|                         |     |     | Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.  |                        |                      |
| 22 47 16 00-0041        | EA  |     | Removal And Reinstallation Of Wall Hung Water Cooler .....   | 683.71                 |                      |
| 22 47 16 00-0042        | EA  |     | Removal And Reinstallation Of Floor Mount Water Cooler.....  | 153.13                 |                      |
| <b>22 47 19</b>         |     |     | <b>Water-Station Water Coolers</b> (22 47)   |                        |                      |
| <b>22 47 19 00-0001</b> |     |     | <b>Bottle Filler</b> (22 47 19)  |                        |                      |
| 22 47 19 00-0002        | EA  |     | Outdoor Tubular Bottle Filling Station, Surface Mount (Elkay LK4410BF).....  | 4,112.81               | 281.96               |
|                         |     |     | <i>For Stainless Steel Carrier, Add</i>  | 205.00                 |                      |
| 22 47 19 00-0003        | EA  |     | Outdoor Tubular Bottle Filling Station, Surface Mount, Freeze Resistant (Elkay LK4410BFFRK).....   | 5,041.26               | 281.96               |
|                         |     |     | <i>For Stainless Steel Carrier, Add</i>  | 205.00                 |                      |
| 22 47 19 00-0004        | EA  |     | Tri-level Outdoor Tubular Bottle Filling Station With Single Bottle Filler And Two Drinking Fountain Basins, Surface Mount (Elkay LK4430BF1) .....                               | 6,446.50               | 317.21               |
|                         |     |     | <i>For Stainless Steel Carrier, Add</i>  | 205.00                 |                      |
| 22 47 19 00-0005        | EA  |     | Tri-level Outdoor Tubular Bottle Filling Station With Two Bottle Fillers And Single Drinking Fountain Basin, Surface Mount (Elkay LK4430BF2) .....                               | 6,951.45               | 317.21               |
|                         |     |     | <i>For Stainless Steel Carrier, Add</i>  | 205.00                 |                      |
| 22 47 19 00-0006        | EA  |     | Tri-level Outdoor Tubular Bottle Filling Station With Three Bottle Fillers, Surface Mount (Elkay LK4430BF3) .....  | 7,456.40               | 317.21               |
|                         |     |     | <i>For Stainless Steel Carrier, Add</i>  | 205.00                 |                      |
| <b>22 47 23</b>         |     |     | <b>Remote Water Coolers</b> (22 47)  |                        |                      |
| <b>22 47 23 00-0001</b> |     |     | <b>Remote Chillers</b> (22 47 23)  |                        |                      |
| 22 47 23 00-0002        | EA  |     | 1.5 GPH Remote Chiller (Halsey-Taylor SJ1-Q).....  | 984.62                 | 95.16                |
| 22 47 23 00-0003        | EA  |     | 5 GPH Remote Chiller (Halsey-Taylor SJ5-Q).....  | 1,474.00               | 105.74               |
| 22 47 23 00-0004        | EA  |     | 8 GPH Remote Chiller (Halsey-Taylor SJ8-Q).....  | 1,285.56               | 123.35               |
| 22 47 23 00-0005        | EA  |     | 10 GPH Remote Chiller (Halsey-Taylor SJ10-Q).....  | 1,644.03               | 140.98               |
| 22 47 23 00-0006        | EA  |     | 19 GPH Remote Chiller (Halsey-Taylor SJ19-Q).....  | 2,569.84               | 211.47               |
| 22 47 23 00-0007        | EA  |     | 30 GPH Remote Chiller (Halsey-Taylor SJ30-Q).....  | 2,786.12               | 229.09               |
| <b>22 47 26</b>         |     |     | <b>Fixture Carriers</b> (22 47)  |                        |                      |
| <b>22 47 26 00-0001</b> |     |     | <b>Water Cooler Carriers</b> (22 47 26)  |                        |                      |
| <b>22 47 26 00-0002</b> |     |     | <b>Floor Mounted, Water Cooler Carriers</b> (22 47 26 00-0001)   |                        |                      |
|                         |     |     | Note: Includes adjustable supporting rods, structural uprights and welded feet.  |                        |                      |
| 22 47 26 00-0003        | EA  |     | Floor Mounted Hanger Plate Type, Single Water Cooler Carrier.....  | 619.23                 | 53.58                |
|                         |     |     | <i>For Up To 4" Extension Sleeves And Hardware, Add</i>  | 24.54                  |                      |
|                         |     |     | <i>For Bi-Level Carrier, Add</i>   | 292.18                 |                      |
| 22 47 26 00-0004        | EA  |     | Floor Mounted Bearing Plate Type, Single Water Cooler Carrier .....  | 590.15                 | 53.58                |
|                         |     |     | <i>For Up To 4" Extension Sleeves And Hardware, Add</i>  | 24.54                  |                      |
|                         |     |     | <i>For Bi-Level Carrier, Add</i>   | 292.18                 |                      |
| <b>22 50</b>            |     |     | <b>Pool and Fountain Plumbing Systems</b> (22)   |                        |                      |
| <b>22 51</b>            |     |     | <b>Swimming Pool Plumbing Systems</b> (22 50)  |                        |                      |
| <b>22 51 13</b>         |     |     | <b>Swimming Pool Piping</b> (22 51)  |                        |                      |
| <b>22 51 13 00-0001</b> |     |     | <b>Swimming Pool Gutters</b> (22 51 13)  |                        |                      |
| 22 51 13 00-0002        | LF  |     | Swimming Pool Gutters, Stainless.....  | 269.27                 | 31.72                |

**22 Plumbing****22 50 Pool and Fountain Plumbing Systems****22 51 Swimming Pool Plumbing Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**22 51 19 Swimming Pool Water Treatment Equipment (22 51)**

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 22 51 19 00-0001 | EA | Swimming Pool Heaters (22 51 19)<br>Note: Excludes wiring, external piping, base or pad. Commercial pools.   |           |          |
| 22 51 19 00-0002 | EA | Electric Pool Heaters (22 51 19 00-0001)   |           |          |
| 22 51 19 00-0003 | EA | 12 KW Heater (1 Degree/Hour), For 4,800 Gallon Pool.....   | 4,421.99  | 281.96   |
| 22 51 19 00-0004 | EA | 18 KW Heater (1 Degree/Hour), For 7,200 Gallon Pool.....   | 4,931.17  | 303.11   |
| 22 51 19 00-0005 | EA | 24 KW Heater (1 Degree/Hour), For 9,600 Gallon Pool.....   | 5,492.56  | 352.45   |
| 22 51 19 00-0006 | EA | 30 KW Heater (1 Degree/Hour), For 12,000 Gallon Pool.....  | 5,855.87  | 422.94   |
| 22 51 19 00-0007 | EA | 36 KW Heater (1 Degree/Hour), For 14,400 Gallon Pool.....  | 6,548.12  | 592.12   |
| 22 51 19 00-0008 | EA | 60 KW Heater (1 Degree/Hour), For 24,000 Gallon Pool.....  | 7,644.96  | 845.88   |
| 22 51 19 00-0009 | EA | Gas Fired Pool Heaters (22 51 19 00-0001)  |           |          |
| 22 51 19 00-0010 | EA | 120 MBH Output Gas Fired Pool Heater.....  | 6,681.69  | 1,261.84 |
| 22 51 19 00-0011 | EA | 180 MBH Output Gas Fired Pool Heater.....  | 7,593.29  | 1,442.10 |
| 22 51 19 00-0012 | EA | 240 MBH Output Gas Fired Pool Heater.....  | 8,577.01  | 1,622.37 |
| 22 51 19 00-0013 | EA | 300 MBH Output Gas Fired Pool Heater.....  | 9,919.53  | 1,982.89 |
| 22 51 19 00-0014 | EA | 360 MBH Output Gas Fired Pool Heater.....  | 10,231.46 | 2,090.40 |
| 22 51 19 00-0015 | EA | 400 MBH Output Gas Fired Pool Heater.....  | 11,785.80 | 2,469.53 |
| 22 51 19 00-0016 | EA | 500 MBH Output Gas Fired Pool Heater.....  | 18,196.80 | 2,849.46 |
| 22 51 19 00-0017 | EA | 600 MBH Output Gas Fired Pool Heater.....  | 21,044.14 | 3,134.40 |
| 22 51 19 00-0018 | EA | 750 MBH Output Gas Fired Pool Heater.....  | 23,692.57 | 3,419.35 |
| 22 51 19 00-0019 | EA | 1,000 MBH Output Gas Fired Pool Heater.....  | 30,263.27 | 4,036.73 |
| 22 51 19 00-0020 | EA | Surge Tanks (22 51 19)<br>Note: Includes 100 GPM vertical pump with 2 HP motor and electronic float switch. Prices are for 1' To 5' sump depth for pump. |           |          |
| 22 51 19 00-0021 | EA | 1,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....   | 22,002.16 | 1,030.66 |
| 22 51 19 00-0022 | EA | 1,500 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....   | 24,640.47 | 1,030.66 |
| 22 51 19 00-0023 | EA | 2,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....   | 29,575.35 | 1,268.87 |
| 22 51 19 00-0024 | EA | 5,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....   | 39,227.58 | 2,047.83 |
| 22 51 19 00-0025 | EA | Diatomite Type Filter System (22 51 19)  |           |          |
| 22 51 19 00-0026 | EA | 35,000 Gallon Filter System, Diatomite.....  | 17,473.07 | 3,729.72 |
| 22 51 19 00-0027 | EA | 45,000 Gallon Filter System, Diatomite.....  | 20,857.87 | 4,475.66 |
| 22 51 19 00-0028 | EA | Silver Recovery System, X-Ray Film Processing (22 51 19)   |           |          |
| 22 51 19 00-0029 | EA | 20 Gallon/Day Capacity, Silver Recovery System.....  | 2,188.90  | 478.54   |
| 22 51 19 00-0030 | EA | 40 Gallon/Day Capacity, Silver Recovery System.....  | 3,179.83  | 638.10   |
| 22 51 19 00-0031 | EA | Inline Water Filter (22 51 19)<br>Note: 3/8" NPT threaded inlet and outlet, 125 PSI, includes one filter cartridge.                                      |           |          |
| 22 51 19 00-0032 | EA | 2 GPM Water Filter, 100 Degree Temperature, 8" x 5" Diameter, Plastic Body.....  | 310.90    | 140.98   |
| 22 51 19 00-0033 | EA | 6 GPM Water Filter, 250 Degree Temperature, 12" x 5" Diameter, Stainless Steel Body.....   | 524.00    | 211.47   |
| 22 51 19 00-0034 | EA | Ultra-Violet Pool Treatment Lights (22 51 19)  |           |          |
| 22 51 19 00-0035 | EA | Stainless Steel Ultra-Violet Pool Treatment Lights (22 51 19 00-0034)<br>Note: Delta ELP Amalgam Series  |           |          |
| 22 51 19 00-0036 | EA | 3" Flanged, 79 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....  | 15,736.85 | 439.62   |
| 22 51 19 00-0037 | EA | 3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 16,631.03 | 439.62   |
| 22 51 19 00-0038 | EA | 3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 17,397.48 | 439.62   |
| 22 51 19 00-0039 | EA | 4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 17,950.70 | 465.43   |
| 22 51 19 00-0040 | EA | 4" Flanged, 295 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 18,330.53 | 465.43   |
| 22 51 19 00-0041 | EA | 4" Flanged, 329 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 21,779.46 | 465.43   |
| 22 51 19 00-0042 | EA | 6" Flanged, 396 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 25,789.36 | 835.96   |
| 22 51 19 00-0043 | EA | 6" Flanged, 440 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 38,130.18 | 835.96   |
| 22 51 19 00-0044 | EA | 6" Flanged, 650 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 41,837.74 | 835.96   |
| 22 51 19 00-0045 | EA | 8" Flanged, 695 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 44,895.53 | 1,002.89 |
| 22 51 19 00-0046 | EA | 8" Flanged, 920 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 48,198.03 | 1,002.89 |
| 22 51 19 00-0047 | EA | 8" Flanged, 1140 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....  | 50,503.58 | 1,002.89 |
| 22 51 19 00-0048 | EA | 8" Flanged, 1260 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....  | 52,996.05 | 1,002.89 |
| 22 51 19 00-0049 | EA | 10" Flanged, 1510 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 56,941.02 | 1,139.95 |
| 22 51 19 00-0050 | EA | 10" Flanged, 1760 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 61,302.85 | 1,139.95 |
| 22 51 19 00-0051 | EA | 10" Flanged, 2010 GPM, 8 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 65,664.66 | 1,139.95 |
| 22 51 19 00-0052 | EA | 10" Flanged, 2520 GPM, 10 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....  | 70,961.15 | 1,139.95 |
| 22 51 19 00-0053 | EA | HDPE Ultra-Violet Pool Treatment Lights (22 51 19 00-0034)<br>Note: Delta EL Series  |           |          |
| 22 51 19 00-0054 | EA | 3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing.....  | 7,901.20  | 439.62   |
| 22 51 19 00-0055 | EA | 3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing.....  | 8,773.53  | 439.62   |
| 22 51 19 00-0056 | EA | 4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing.....  | 9,684.81  | 465.43   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>22 51 19 00-0057</b> In-Line, Stainless Steel Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0034)</small>                    |                           |                         |
| <small>Note: Delta EM Series</small>   |                           |                         |
| 22 51 19 00-0058 EA 3" Flanged, 100 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 30,333.37                 | 439.62                  |
| 22 51 19 00-0059 EA 3" Flanged, 170 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 30,644.90                 | 439.62                  |
| 22 51 19 00-0060 EA 6" Flanged, 300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 32,815.02                 | 835.96                  |
| 22 51 19 00-0061 EA 6" Flanged, 600 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....   | 41,501.24                 | 835.96                  |
| 22 51 19 00-0062 EA 8" Flanged, 1300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....  | 57,856.35                 | 1,002.89                |
| 22 51 19 00-0063 EA 10" Flanged, 2000 GPM, 2 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing..... | 65,290.80                 | 1,139.95                |
| 22 51 19 00-0064 EA 12" Flanged, 3000 GPM, 3 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing..... | 77,015.78                 | 1,475.15                |
| 22 51 19 00-0065 EA 12" Flanged, 4000 GPM, 4 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing..... | 86,362.51                 | 1,475.15                |

## 22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities (22)

### 22 63 Gas Systems for Laboratory and Healthcare Facilities (22 60)

#### 22 63 13 Gas Piping for Laboratory and Healthcare Facilities (22 63)

##### 22 63 13 53 Laboratory Gas Piping (22 63 13)

See CSI section 23 21 13 23-0001 for black steel pipe, 23 21 13 23-2234 for PVC piping.

### 22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)

#### 22 66 53 Laboratory Chemical-Waste and Vent Piping (22 66)

##### 22 66 53 00-0001 Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)

##### 22 66 53 00-0002 Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fusesal Fittings (22 66 53 00-0001)

##### 22 66 53 00-0003 Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)

|                  |  |       |  |       |
|------------------|--|-------|--|-------|
| 22 66 53 00-0004 | LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe..... | 18.19 |  | 8.03  |
|                  | <i>For Schedule 80, Add</i>                                      | 3.17  |  |       |
|                  | <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>    | 2.71  |  |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                 | 3.63  |  |       |
| 22 66 53 00-0005 | LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....     | 21.87 |  | 9.02  |
|                  | <i>For Schedule 80, Add</i>                                      | 4.28  |  |       |
|                  | <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>    | 3.67  |  |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                 | 4.09  |  |       |
| 22 66 53 00-0006 | LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....     | 34.59 |  | 13.11 |
|                  | <i>For Schedule 80, Add</i>                                      | 7.73  |  |       |
|                  | <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>    | 6.62  |  |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                 | 5.92  |  |       |
| 22 66 53 00-0007 | LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....     | 46.74 |  | 17.05 |
|                  | <i>For Schedule 80, Add</i>                                      | 10.98 |  |       |
|                  | <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>    | 9.39  |  |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                 | 7.69  |  |       |
| 22 66 53 00-0008 | LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....     | 75.64 |  | 25.10 |
|                  | <i>For Schedule 80, Add</i>                                      | 19.78 |  |       |
|                  | <i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>    | 16.93 |  |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                 | 11.28 |  |       |

##### 22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/4 Bends (22 66 53 00-0002)

|                  |  |        |  |       |
|------------------|--|--------|--|-------|
| 22 66 53 00-0010 | EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/4 Bend..... | 70.04  |  | 30.31 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 13.64  |  |       |
| 22 66 53 00-0011 | EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/4 Bend.....     | 90.49  |  | 40.04 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 18.00  |  |       |
| 22 66 53 00-0012 | EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/4 Bend.....     | 120.55 |  | 45.81 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 20.63  |  |       |
| 22 66 53 00-0013 | EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/4 Bend.....     | 173.38 |  | 60.63 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 27.29  |  |       |
| 22 66 53 00-0014 | EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/4 Bend.....     | 336.84 |  | 89.53 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 40.28  |  |       |

##### 22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/8 Bends (22 66 53 00-0002)

|                  |  |        |  |       |
|------------------|--|--------|--|-------|
| 22 66 53 00-0016 | EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/8 Bend..... | 69.62  |  | 30.31 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 13.64  |  |       |
| 22 66 53 00-0017 | EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/8 Bend.....     | 89.38  |  | 40.04 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 18.00  |  |       |
| 22 66 53 00-0018 | EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/8 Bend.....     | 122.67 |  | 45.81 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 20.63  |  |       |
| 22 66 53 00-0019 | EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/8 Bend.....     | 152.07 |  | 60.63 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 27.29  |  |       |
| 22 66 53 00-0020 | EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fusesal 1/8 Bend.....     | 303.82 |  | 89.53 |
|                  | <i>For Work In Restricted Working Space, Add</i>                             | 40.28  |  |       |



**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 22 66 53 00-0021 |     |     | <b>Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees</b> <small>(22 66 53 00-0002)</small>           |                        |                      |
| 22 66 53 00-0022 | EA  |     | 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....   | 127.73                 | 64.85                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 29.17                  |                      |
| 22 66 53 00-0023 | EA  |     | 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....   | 159.13                 | 81.77                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.78                  |                      |
| 22 66 53 00-0024 | EA  |     | 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....   | 207.37                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0025 | EA  |     | 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....   | 285.70                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0026 | EA  |     | 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....   | 499.68                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0027 |     |     | <b>Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees</b> <small>(22 66 53 00-0002)</small>  |                        |                      |
| 22 66 53 00-0028 | EA  |     | 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....                      | 159.08                 | 81.77                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.78                  |                      |
| 22 66 53 00-0029 | EA  |     | 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....                          | 202.26                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0030 | EA  |     | 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....                      | 197.73                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0031 | EA  |     | 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....                          | 274.07                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0032 | EA  |     | 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....                          | 278.46                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0033 | EA  |     | 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....                          | 467.28                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0034 |     |     | <b>Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug</b> <small>(22 66 53 00-0002)</small> |                        |                      |
| 22 66 53 00-0035 | EA  |     | 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug.....                               | 142.62                 | 64.85                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 29.17                  |                      |
| 22 66 53 00-0036 | EA  |     | 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug.....                                   | 162.73                 | 81.77                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.78                  |                      |
| 22 66 53 00-0037 | EA  |     | 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug.....                                   | 218.39                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0038 | EA  |     | 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug.....                                   | 290.78                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0039 | EA  |     | 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug.....                                   | 436.85                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0040 |     |     | <b>Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes</b> <small>(22 66 53 00-0002)</small>                    |                        |                      |
| 22 66 53 00-0041 | EA  |     | 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....  | 136.09                 | 64.85                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 29.17                  |                      |
| 22 66 53 00-0042 | EA  |     | 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....  | 166.87                 | 81.77                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.78                  |                      |
| 22 66 53 00-0043 | EA  |     | 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....  | 211.98                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0044 | EA  |     | 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....  | 289.53                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0045 | EA  |     | 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....  | 569.58                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0046 |     |     | <b>Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes</b> <small>(22 66 53 00-0002)</small>           |                        |                      |
| 22 66 53 00-0047 | EA  |     | 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                               | 177.11                 | 81.77                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.78                  |                      |
| 22 66 53 00-0048 | EA  |     | 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                               | 206.73                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0049 | EA  |     | 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                                   | 206.73                 | 89.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 40.28                  |                      |
| 22 66 53 00-0050 | EA  |     | 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                                   | 284.99                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0051 | EA  |     | 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                                   | 284.99                 | 117.58               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.87                  |                      |
| 22 66 53 00-0052 | EA  |     | 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                                   | 509.37                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0053 | EA  |     | 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                                   | 512.89                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0054 | EA  |     | 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....                                   | 468.76                 | 188.07               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 84.59                  |                      |
| 22 66 53 00-0055 |     |     | <b>Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses</b> <small>(22 66 53 00-0002)</small>        |                        |                      |
| 22 66 53 00-0056 | EA  |     | 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....                                       | 169.34                 | 81.06                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 36.46                  |                      |
| 22 66 53 00-0057 | EA  |     | 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....   | 210.52                 | 102.21               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 45.97                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....<br><i>For Work In Restricted Working Space, Add</i>                              | 282.43<br>50.35           | 111.94                  |
| 22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....<br><i>For Work In Restricted Working Space, Add</i>                              | 391.89<br>66.08           | 146.90                  |
| 22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross.....<br><i>For Work In Restricted Working Space, Add</i>                              | 693.74<br>105.74          | 235.01                  |
| <b>22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye<br/>And 1/8 Bends <small>(22 66 53 00-0002)</small></b>                                 |                           |                         |
| 22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>           | 125.00<br>29.17           | 64.85                   |
| 22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>               | 163.17<br>36.78           | 81.77                   |
| 22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>               | 186.19<br>40.28           | 89.53                   |
| 22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>               | 256.98<br>52.87           | 117.58                  |
| 22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i> | 151.09<br>36.78           | 81.77                   |
| 22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i> | 181.33<br>40.28           | 89.53                   |
| 22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 183.28<br>40.28           | 89.53                   |
| 22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 249.76<br>52.87           | 117.58                  |
| 22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 250.99<br>52.87           | 117.58                  |
| <b>22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps <small>(22 66 53 00-0002)</small></b>   |                           |                         |
| 22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....<br><i>For Work In Restricted Working Space, Add</i>                                 | 147.63<br>33.84           | 75.29                   |
| 22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 196.33<br>44.52           | 98.97                   |
| 22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 295.69<br>60.42           | 134.35                  |
| 22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 414.77<br>76.90           | 171.01                  |
| <b>22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters <small>(22 66 53 00-0002)</small></b>  |                           |                         |
| 22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                            | 68.88<br>13.64            | 30.31                   |
| 22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                                | 84.38<br>18.00            | 40.04                   |
| 22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                                | 98.95<br>20.63            | 45.81                   |
| 22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                                | 134.44<br>27.29           | 60.63                   |
| 22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                                | 199.40<br>40.28           | 89.53                   |
| <b>22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint<br/>Adapters <small>(22 66 53 00-0002)</small></b>                                     |                           |                         |
| 22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....<br><i>For Work In Restricted Working Space, Add</i>               | 65.94<br>13.64            | 30.31                   |
| 22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                   | 86.59<br>18.00            | 40.04                   |
| 22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                   | 103.02<br>20.63           | 45.81                   |
| 22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter .....<br><i>For Work In Restricted Working Space, Add</i>                   | 138.44<br>27.29           | 60.63                   |
| <b>22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings <small>(22 66 53 00-0002)</small></b>   |                           |                         |
| 22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                               | 62.30<br>13.64            | 30.31                   |
| 22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 80.04<br>18.00            | 40.04                   |
| 22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 93.11<br>20.63            | 45.81                   |
| 22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 123.13<br>27.29           | 60.63                   |
| 22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 181.03<br>40.28           | 89.53                   |
| 22 66 53 00-0093 Glass Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>  |                           |                         |
| 22 66 53 00-0094 Glass Acid Resistant DWV Pipe <small>(22 66 53 00-0093)</small>  |                           |                         |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0095 LF 1-1/2" Glass Acid Resistant DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                         | 38.30<br>4.65             | 7.75                    |
| 22 66 53 00-0096 LF 2" Glass Acid Resistant DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                             | 47.96<br>5.07             | 8.46                    |
| 22 66 53 00-0097 LF 3" Glass Acid Resistant DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                             | 66.39<br>7.13             | 11.85                   |
| 22 66 53 00-0098 LF 4" Glass Acid Resistant DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                             | 108.29<br>9.23            | 15.37                   |
| 22 66 53 00-0099 LF 6" Glass Acid Resistant DWV Pipe.....<br><i>For Work In Restricted Working Space, Add</i>                             | 180.96<br>12.59           | 21.01                   |
| <b>22 66 53 00-0100 Glass Acid Resistant DWV 90 Or 60 Degree Sweeps (22 66 53 00-0093)</b>  |                           |                         |
| 22 66 53 00-0101 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>        | 117.44<br>20.68           | 34.54                   |
| 22 66 53 00-0102 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>            | 134.39<br>21.95           | 36.65                   |
| 22 66 53 00-0103 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>            | 184.02<br>24.95           | 41.59                   |
| 22 66 53 00-0104 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>            | 270.97<br>32.99           | 54.98                   |
| 22 66 53 00-0105 EA 6" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>            | 642.95<br>45.68           | 76.13                   |
| <b>22 66 53 00-0106 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweeps (22 66 53 00-0093)</b>  |                           |                         |
| 22 66 53 00-0107 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>    | 117.73<br>20.77           | 34.68                   |
| 22 66 53 00-0108 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>        | 133.81<br>21.78           | 36.23                   |
| 22 66 53 00-0109 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>        | 183.73<br>24.87           | 41.45                   |
| 22 66 53 00-0110 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>        | 270.97<br>32.99           | 54.98                   |
| 22 66 53 00-0111 EA 6" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....<br><i>For Work In Restricted Working Space, Add</i>        | 642.92<br>45.67           | 76.13                   |
| <b>22 66 53 00-0112 Glass Acid Resistant DWV 90 Or 60 Degree Bends (22 66 53 00-0093)</b>   |                           |                         |
| 22 66 53 00-0113 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>         | 119.05<br>20.77           | 34.68                   |
| 22 66 53 00-0114 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>             | 135.40<br>21.78           | 36.23                   |
| 22 66 53 00-0115 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>             | 186.51<br>24.87           | 41.45                   |
| 22 66 53 00-0116 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>             | 270.97<br>32.99           | 54.98                   |
| <b>22 66 53 00-0117 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bends (22 66 53 00-0093)</b>   |                           |                         |
| 22 66 53 00-0118 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>     | 119.05<br>20.77           | 34.68                   |
| 22 66 53 00-0119 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>         | 135.40<br>21.78           | 36.23                   |
| 22 66 53 00-0120 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>         | 186.51<br>24.87           | 41.45                   |
| 22 66 53 00-0121 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....<br><i>For Work In Restricted Working Space, Add</i>         | 270.97<br>32.99           | 54.98                   |
| <b>22 66 53 00-0122 Glass Acid Resistant DWV 90 Degree Bends With Long Leg (22 66 53 00-0093)</b>   |                           |                         |
| 22 66 53 00-0123 EA 1-1/2" Glass Acid Resistant DWV 90 Degree Bend With Long Leg.....<br><i>For Work In Restricted Working Space, Add</i> | 137.96<br>20.77           | 34.68                   |
| 22 66 53 00-0124 EA 2" Glass Acid Resistant DWV 90 Degree Bends With Long Leg.....<br><i>For Work In Restricted Working Space, Add</i>    | 162.56<br>21.78           | 36.23                   |
| <b>22 66 53 00-0125 Glass Acid Resistant DWV Double Quarter Bends (22 66 53 00-0093)</b>  |                           |                         |
| 22 66 53 00-0126 EA 1-1/2" Glass Acid Resistant DWV Double Quarter Bend.....<br><i>For Work In Restricted Working Space, Add</i>          | 190.51<br>31.16           | 51.88                   |
| 22 66 53 00-0127 EA 2" x 1-1/2" Glass Acid Resistant DWV Double Quarter Bend.....<br><i>For Work In Restricted Working Space, Add</i>     | 238.61<br>32.23           | 53.72                   |
| 22 66 53 00-0128 EA 2" Glass Acid Resistant DWV Double Quarter Bend.....<br><i>For Work In Restricted Working Space, Add</i>              | 222.60<br>32.67           | 54.42                   |
| 22 66 53 00-0129 EA 3" Glass Acid Resistant DWV Double Quarter Bend.....<br><i>For Work In Restricted Working Space, Add</i>              | 300.61<br>37.31           | 62.17                   |
| 22 66 53 00-0130 EA 4" Glass Acid Resistant DWV Double Quarter Bend.....<br><i>For Work In Restricted Working Space, Add</i>              | 494.47<br>49.48           | 82.48                   |
| 22 66 53 00-0131 EA 6" Glass Acid Resistant DWV Double Quarter Bend.....<br><i>For Work In Restricted Working Space, Add</i>              | 757.39<br>68.53           | 114.19                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>22 66 53 00-0132 Glass Acid Resistant DWV Sanitary Tees</b> (22 66 53 00-0093)                 |                           |                         |
| 22 66 53 00-0133 EA 1-1/2" Glass Acid Resistant DWV Sanitary Tee.....                             | 182.51                    | 52.16                   |
| For Work In Restricted Working Space, Add   | 31.30                     |                         |
| 22 66 53 00-0134 EA 2" Glass Acid Resistant DWV Sanitary Tee.....                                 | 186.73                    | 54.28                   |
| For Work In Restricted Working Space, Add   | 32.57                     |                         |
| 22 66 53 00-0135 EA 3" Glass Acid Resistant DWV Sanitary Tee.....                                 | 240.68                    | 62.03                   |
| For Work In Restricted Working Space, Add   | 37.22                     |                         |
| 22 66 53 00-0136 EA 4" Glass Acid Resistant DWV Sanitary Tee.....                                 | 374.17                    | 82.48                   |
| For Work In Restricted Working Space, Add   | 49.48                     |                         |
| 22 66 53 00-0137 EA 6" Glass Acid Resistant DWV Sanitary Tee.....                                 | 788.90                    | 114.19                  |
| For Work In Restricted Working Space, Add   | 68.52                     |                         |
| <b>22 66 53 00-0138 Glass Acid Resistant DWV Reducing Sanitary Tees</b> (22 66 53 00-0093)        |                           |                         |
| 22 66 53 00-0139 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee.....               | 185.32                    | 53.58                   |
| For Work In Restricted Working Space, Add   | 32.14                     |                         |
| 22 66 53 00-0140 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee.....               | 220.11                    | 58.50                   |
| For Work In Restricted Working Space, Add   | 35.11                     |                         |
| 22 66 53 00-0141 EA 3" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee.....                   | 233.65                    | 59.91                   |
| For Work In Restricted Working Space, Add   | 35.95                     |                         |
| 22 66 53 00-0142 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee.....               | 301.17                    | 72.60                   |
| For Work In Restricted Working Space, Add   | 43.56                     |                         |
| 22 66 53 00-0143 EA 4" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee.....                   | 315.43                    | 73.31                   |
| For Work In Restricted Working Space, Add   | 43.99                     |                         |
| 22 66 53 00-0144 EA 4" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee.....                   | 331.20                    | 75.43                   |
| For Work In Restricted Working Space, Add   | 45.26                     |                         |
| 22 66 53 00-0145 EA 6" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee.....                   | 582.33                    | 94.45                   |
| For Work In Restricted Working Space, Add   | 56.68                     |                         |
| 22 66 53 00-0146 EA 6" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee.....                   | 627.63                    | 96.58                   |
| For Work In Restricted Working Space, Add   | 57.94                     |                         |
| 22 66 53 00-0147 EA 6" x 4" Glass Acid Resistant DWV Reducing Sanitary Tee.....                   | 643.98                    | 103.62                  |
| For Work In Restricted Working Space, Add   | 62.17                     |                         |
| <b>22 66 53 00-0148 Glass Acid Resistant DWV Double Sanitary Tees</b> (22 66 53 00-0093)          |                           |                         |
| 22 66 53 00-0149 EA 1-1/2" Glass Acid Resistant DWV Double Sanitary Tee.....                      | 258.10                    | 69.08                   |
| For Work In Restricted Working Space, Add   | 41.45                     |                         |
| 22 66 53 00-0150 EA 2" Glass Acid Resistant DWV Double Sanitary Tee.....                          | 265.11                    | 72.60                   |
| For Work In Restricted Working Space, Add   | 43.56                     |                         |
| 22 66 53 00-0151 EA 3" Glass Acid Resistant DWV Double Sanitary Tee.....                          | 342.59                    | 83.18                   |
| For Work In Restricted Working Space, Add   | 49.91                     |                         |
| 22 66 53 00-0152 EA 4" Glass Acid Resistant DWV Double Sanitary Tee.....                          | 557.66                    | 109.97                  |
| For Work In Restricted Working Space, Add   | 65.97                     |                         |
| 22 66 53 00-0153 EA 6" Glass Acid Resistant DWV Double Sanitary Tee.....                          | 993.32                    | 152.26                  |
| For Work In Restricted Working Space, Add   | 91.37                     |                         |
| <b>22 66 53 00-0154 Glass Acid Resistant DWV Reducing Double Sanitary Tees</b> (22 66 53 00-0093) |                           |                         |
| 22 66 53 00-0155 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....        | 262.29                    | 71.19                   |
| For Work In Restricted Working Space, Add   | 42.71                     |                         |
| 22 66 53 00-0156 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....        | 302.66                    | 76.13                   |
| For Work In Restricted Working Space, Add   | 45.68                     |                         |
| 22 66 53 00-0157 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....            | 319.66                    | 77.54                   |
| For Work In Restricted Working Space, Add   | 46.53                     |                         |
| 22 66 53 00-0158 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....        | 464.34                    | 89.53                   |
| For Work In Restricted Working Space, Add   | 53.72                     |                         |
| 22 66 53 00-0159 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....            | 460.08                    | 91.64                   |
| For Work In Restricted Working Space, Add   | 54.98                     |                         |
| 22 66 53 00-0160 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....            | 493.71                    | 96.58                   |
| For Work In Restricted Working Space, Add   | 57.95                     |                         |
| 22 66 53 00-0161 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....            | 653.93                    | 112.79                  |
| For Work In Restricted Working Space, Add   | 67.66                     |                         |
| 22 66 53 00-0162 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....            | 710.89                    | 117.72                  |
| For Work In Restricted Working Space, Add   | 70.62                     |                         |
| 22 66 53 00-0163 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Sanitary Tee.....            | 805.06                    | 131.12                  |
| For Work In Restricted Working Space, Add   | 78.65                     |                         |
| <b>22 66 53 00-0164 Glass Acid Resistant DWV Tees</b> (22 66 53 00-0093)                          |                           |                         |
| 22 66 53 00-0165 EA 1-1/2" Glass Acid Resistant DWV Tee.....                                      | 201.07                    | 52.16                   |
| For Work In Restricted Working Space, Add   | 31.30                     |                         |
| 22 66 53 00-0166 EA 2" Glass Acid Resistant DWV Tee.....  | 205.28                    | 54.28                   |
| For Work In Restricted Working Space, Add   | 32.57                     |                         |
| 22 66 53 00-0167 EA 3" Glass Acid Resistant DWV Tee.....  | 263.72                    | 62.03                   |
| For Work In Restricted Working Space, Add   | 37.22                     |                         |
| 22 66 53 00-0168 EA 4" Glass Acid Resistant DWV Tee.....  | 410.32                    | 82.48                   |
| For Work In Restricted Working Space, Add   | 49.48                     |                         |
| 22 66 53 00-0169 EA 6" Glass Acid Resistant DWV Tee.....  | 832.26                    | 114.19                  |
| For Work In Restricted Working Space, Add   | 68.53                     |                         |
| <b>22 66 53 00-0170 Glass Acid Resistant DWV Reducing Tees</b> (22 66 53 00-0093)                 |                           |                         |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0171 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>        | 203.85<br>32.14           | 53.58                   |
| 22 66 53 00-0172 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>        | 239.46<br>35.11           | 58.50                   |
| 22 66 53 00-0173 EA 3" x 2" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>            | 245.06<br>35.95           | 59.91                   |
| 22 66 53 00-0174 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>        | 305.43<br>43.57           | 72.60                   |
| 22 66 53 00-0175 EA 4" x 2" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>            | 313.44<br>43.98           | 73.31                   |
| 22 66 53 00-0176 EA 4" x 3" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>            | 374.69<br>45.26           | 75.43                   |
| 22 66 53 00-0177 EA 6" x 3" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>            | 707.12<br>57.94           | 96.58                   |
| 22 66 53 00-0178 EA 6" x 4" Glass Acid Resistant DWV Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>            | 736.97<br>62.16           | 103.62                  |
| <b>22 66 53 00-0179 Glass Acid Resistant DWV Test Tees With Cleanout</b> (22 66 53 00-0093)                                      |                           |                         |
| 22 66 53 00-0180 EA 1-1/2" Glass Acid Resistant DWV Test Tee With Cleanout<br><i>For Work In Restricted Working Space, Add</i>   | 232.87<br>31.30           | 52.16                   |
| 22 66 53 00-0181 EA 2" Glass Acid Resistant DWV Test Tee With Cleanout<br><i>For Work In Restricted Working Space, Add</i>       | 259.21<br>32.57           | 54.28                   |
| 22 66 53 00-0182 EA 3" Glass Acid Resistant DWV Test Tee With Cleanout<br><i>For Work In Restricted Working Space, Add</i>       | 331.70<br>37.22           | 62.03                   |
| 22 66 53 00-0183 EA 4" Glass Acid Resistant DWV Test Tee With Cleanout<br><i>For Work In Restricted Working Space, Add</i>       | 565.23<br>49.48           | 82.48                   |
| 22 66 53 00-0184 EA 6" Glass Acid Resistant DWV Test Tee With Cleanout<br><i>For Work In Restricted Working Space, Add</i>       | 832.26<br>68.53           | 114.19                  |
| <b>22 66 53 00-0185 Glass Acid Resistant DWV Wyes</b> (22 66 53 00-0093)   |                           |                         |
| 22 66 53 00-0186 EA 1-1/2" Glass Acid Resistant DWV Wye<br><i>For Work In Restricted Working Space, Add</i>                      | 186.49<br>31.30           | 52.16                   |
| 22 66 53 00-0187 EA 2" Glass Acid Resistant DWV Wye<br><i>For Work In Restricted Working Space, Add</i>                          | 190.70<br>32.57           | 54.28                   |
| 22 66 53 00-0188 EA 3" Glass Acid Resistant DWV Wye<br><i>For Work In Restricted Working Space, Add</i>                          | 256.57<br>37.22           | 62.03                   |
| 22 66 53 00-0189 EA 4" Glass Acid Resistant DWV Wye<br><i>For Work In Restricted Working Space, Add</i>                          | 391.91<br>49.48           | 82.48                   |
| 22 66 53 00-0190 EA 6" Glass Acid Resistant DWV Wye<br><i>For Work In Restricted Working Space, Add</i>                          | 776.74<br>68.53           | 114.19                  |
| <b>22 66 53 00-0191 Glass Acid Resistant DWV Reducing Wyes</b> (22 66 53 00-0093)  |                           |                         |
| 22 66 53 00-0192 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>        | 189.27<br>32.14           | 53.58                   |
| 22 66 53 00-0193 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>        | 228.33<br>35.11           | 58.50                   |
| 22 66 53 00-0194 EA 3" x 2" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>            | 234.59<br>35.95           | 59.91                   |
| 22 66 53 00-0195 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>        | 317.09<br>43.57           | 72.60                   |
| 22 66 53 00-0196 EA 4" x 2" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>            | 320.06<br>43.98           | 73.31                   |
| 22 66 53 00-0197 EA 4" x 3" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>            | 346.86<br>45.26           | 75.43                   |
| 22 66 53 00-0198 EA 6" x 2" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>            | 565.07<br>56.66           | 94.45                   |
| 22 66 53 00-0199 EA 6" x 3" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>            | 651.99<br>57.94           | 96.58                   |
| 22 66 53 00-0200 EA 6" x 4" Glass Acid Resistant DWV Reducing Wye<br><i>For Work In Restricted Working Space, Add</i>            | 708.34<br>62.16           | 103.62                  |
| <b>22 66 53 00-0201 Glass Acid Resistant DWV Double Wyes</b> (22 66 53 00-0093)  |                           |                         |
| 22 66 53 00-0202 EA 1-1/2" Glass Acid Resistant DWV Double Wye<br><i>For Work In Restricted Working Space, Add</i>               | 298.11<br>41.45           | 69.08                   |
| 22 66 53 00-0203 EA 2" Glass Acid Resistant DWV Double Wye<br><i>For Work In Restricted Working Space, Add</i>                   | 305.17<br>43.57           | 72.60                   |
| 22 66 53 00-0204 EA 3" Glass Acid Resistant DWV Double Wye<br><i>For Work In Restricted Working Space, Add</i>                   | 404.71<br>49.90           | 83.18                   |
| 22 66 53 00-0205 EA 4" Glass Acid Resistant DWV Double Wye<br><i>For Work In Restricted Working Space, Add</i>                   | 621.10<br>65.96           | 109.97                  |
| 22 66 53 00-0206 EA 6" Glass Acid Resistant DWV Double Wye<br><i>For Work In Restricted Working Space, Add</i>                   | 1,027.64<br>91.39         | 152.26                  |
| <b>22 66 53 00-0207 Glass Acid Resistant DWV Reducing Double Wyes</b> (22 66 53 00-0093)   |                           |                         |
| 22 66 53 00-0208 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye<br><i>For Work In Restricted Working Space, Add</i> | 302.29<br>42.71           | 71.19                   |
| 22 66 53 00-0209 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye<br><i>For Work In Restricted Working Space, Add</i> | 312.18<br>45.67           | 76.13                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0210 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                              | 358.46<br>46.52           | 77.54                   |
| 22 66 53 00-0211 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                          | 439.47<br>53.73           | 89.53                   |
| 22 66 53 00-0212 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                              | 463.28<br>54.99           | 91.64                   |
| 22 66 53 00-0213 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                              | 542.28<br>57.94           | 96.58                   |
| 22 66 53 00-0214 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                              | 830.31<br>67.65           | 112.79                  |
| 22 66 53 00-0215 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                              | 871.34<br>70.63           | 117.72                  |
| 22 66 53 00-0216 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Wye .....<br><i>For Work In Restricted Working Space, Add</i>                              | 932.73<br>78.67           | 131.12                  |
| <b>22 66 53 00-0217 Glass Acid Resistant DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>  |                           |                         |
| 22 66 53 00-0218 EA 1-1/2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                      | 207.48<br>31.30           | 52.16                   |
| 22 66 53 00-0219 EA 2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                          | 212.57<br>32.57           | 54.28                   |
| 22 66 53 00-0220 EA 3" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                          | 269.55<br>37.22           | 62.03                   |
| 22 66 53 00-0221 EA 4" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                          | 398.66<br>49.48           | 82.48                   |
| 22 66 53 00-0222 EA 6" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                          | 757.79<br>68.53           | 114.19                  |
| <b>22 66 53 00-0223 Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>                                       |                           |                         |
| 22 66 53 00-0224 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>        | 211.14<br>32.14           | 53.58                   |
| 22 66 53 00-0225 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>        | 231.64<br>35.11           | 58.50                   |
| 22 66 53 00-0226 EA 3" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>            | 247.84<br>35.95           | 59.91                   |
| 22 66 53 00-0227 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>        | 309.14<br>43.57           | 72.60                   |
| 22 66 53 00-0228 EA 4" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>            | 321.79<br>43.98           | 73.31                   |
| 22 66 53 00-0229 EA 4" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>            | 348.85<br>45.26           | 75.43                   |
| 22 66 53 00-0230 EA 6" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>            | 566.26<br>56.66           | 94.45                   |
| 22 66 53 00-0231 EA 6" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>            | 640.47<br>57.94           | 96.58                   |
| 22 66 53 00-0232 EA 6" x 4" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>            | 655.34<br>62.16           | 103.62                  |
| <b>22 66 53 00-0233 Glass Acid Resistant DWV Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>   |                           |                         |
| 22 66 53 00-0234 EA 1-1/2" Double Glass Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                                  | 278.23<br>41.45           | 69.08                   |
| 22 66 53 00-0235 EA 2" Double Glass Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                                      | 321.86<br>43.57           | 72.60                   |
| 22 66 53 00-0236 EA 3" Double Glass Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                                      | 429.89<br>49.90           | 83.18                   |
| 22 66 53 00-0237 EA 4" Double Glass Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                                      | 679.67<br>65.96           | 109.97                  |
| 22 66 53 00-0238 EA 6" Double Glass Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>                                      | 1,121.13<br>91.39         | 152.26                  |
| <b>22 66 53 00-0239 Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>                                |                           |                         |
| 22 66 53 00-0240 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i> | 285.46<br>42.71           | 71.19                   |
| 22 66 53 00-0241 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i> | 359.08<br>45.67           | 76.13                   |
| 22 66 53 00-0242 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 354.22<br>46.52           | 77.54                   |
| 22 66 53 00-0243 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i> | 472.06<br>53.73           | 89.53                   |
| 22 66 53 00-0244 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 468.45<br>54.99           | 91.64                   |
| 22 66 53 00-0245 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 523.86<br>57.94           | 96.58                   |
| 22 66 53 00-0246 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 744.93<br>67.65           | 112.79                  |
| 22 66 53 00-0247 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....<br><i>For Work In Restricted Working Space, Add</i>     | 793.16<br>70.63           | 117.72                  |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0248 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend<br><i>For Work In Restricted Working Space, Add</i>                                | 923.45<br>78.67           | 131.12                  |
| <b>22 66 53 00-0249 Glass Acid Resistant DWV Partition Crosses (Compact)</b> (22 66 53 00-0093)  |                           |                         |
| 22 66 53 00-0250 EA 2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)<br><i>For Work In Restricted Working Space, Add</i>   | 311.96<br>42.71           | 71.19                   |
| 22 66 53 00-0251 EA 2" Glass Acid Resistant DWV Partition Cross (Compact)<br><i>For Work In Restricted Working Space, Add</i>  | 314.84<br>43.57           | 72.60                   |
| 22 66 53 00-0252 EA 2" x 1-1/2" x 1-1/2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)<br><i>For Work In Restricted Working Space, Add</i>                             | 335.24<br>42.29           | 70.49                   |
| <b>22 66 53 00-0253 Glass Acid Resistant DWV Upright Y Or H (Vent Branch)</b> (22 66 53 00-0093)   |                           |                         |
| 22 66 53 00-0254 EA 1-1/2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 302.31<br>31.30           | 52.16                   |
| 22 66 53 00-0255 EA 2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 332.36<br>32.57           | 54.28                   |
| 22 66 53 00-0256 EA 3" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 382.32<br>37.22           | 62.03                   |
| 22 66 53 00-0257 EA 4" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 559.00<br>49.48           | 82.48                   |
| 22 66 53 00-0258 EA 6" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 1,040.29<br>68.53         | 114.19                  |
| <b>22 66 53 00-0259 Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)</b> (22 66 53 00-0093)  |                           |                         |
| 22 66 53 00-0260 EA 2" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 304.29<br>32.14           | 53.58                   |
| 22 66 53 00-0261 EA 3" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 346.79<br>35.11           | 58.50                   |
| 22 66 53 00-0262 EA 3" x 2" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 368.82<br>35.95           | 59.91                   |
| 22 66 53 00-0263 EA 4" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 428.40<br>43.57           | 72.60                   |
| 22 66 53 00-0264 EA 4" x 2" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 452.70<br>43.98           | 73.31                   |
| 22 66 53 00-0265 EA 4" x 3" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 496.19<br>45.26           | 75.43                   |
| 22 66 53 00-0266 EA 6" x 3" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 712.55<br>57.94           | 96.58                   |
| 22 66 53 00-0267 EA 6" x 4" Reducing Glass Upright Y Or H (Vent Branch)<br><i>For Work In Restricted Working Space, Add</i>  | 810.37<br>62.16           | 103.62                  |
| <b>22 66 53 00-0268 Glass Acid Resistant DWV Reducers Or Increases</b> (22 66 53 00-0093)  |                           |                         |
| 22 66 53 00-0269 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 112.89<br>3.39<br>21.15   | 35.25                   |
| 22 66 53 00-0270 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 139.07<br>5.04<br>22.84   | 38.06                   |
| 22 66 53 00-0271 EA 3" x 2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 148.03<br>5.64<br>23.26   | 38.77                   |
| 22 66 53 00-0272 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 188.68<br>7.88<br>27.07   | 45.11                   |
| 22 66 53 00-0273 EA 4" x 2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 196.19<br>8.36<br>27.49   | 45.81                   |
| 22 66 53 00-0274 EA 4" x 3" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 208.89<br>9.04<br>28.76   | 47.94                   |
| 22 66 53 00-0275 EA 6" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 397.60<br>22.90<br>33.41  | 55.69                   |
| 22 66 53 00-0276 EA 6" x 2" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 417.16<br>24.35<br>33.84  | 56.39                   |
| 22 66 53 00-0277 EA 6" x 3" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 442.18<br>26.01<br>35.10  | 58.50                   |
| 22 66 53 00-0278 EA 6" x 4" Glass Acid Resistant DWV Reducer Or Increaser<br><i>For Eccentric Reducers Or Increases, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 465.69<br>26.77<br>39.33  | 65.55                   |
| <b>22 66 53 00-0279 Glass Acid Resistant DWV Swivel P-Traps</b> (22 66 53 00-0093)   |                           |                         |
| 22 66 53 00-0280 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 253.53<br>31.30           | 52.16                   |
| 22 66 53 00-0281 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>   | 270.52<br>32.14           | 53.58                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0282 EA 2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 301.76<br>32.57           | 54.28                   |
| 22 66 53 00-0283 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 272.88<br>31.30           | 52.16                   |
| 22 66 53 00-0284 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>   | 295.17<br>32.14           | 53.58                   |
| 22 66 53 00-0285 EA 2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 329.58<br>32.57           | 54.28                   |
| 22 66 53 00-0286 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 278.18<br>31.30           | 52.16                   |
| 22 66 53 00-0287 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>   | 295.17<br>32.14           | 53.58                   |
| 22 66 53 00-0288 EA 2" Glass Acid Resistant DWV Swivel P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 329.58<br>32.57           | 54.28                   |
| <b>22 66 53 00-0289 Glass Acid Resistant DWV Drum P-Traps</b> <small>(22 66 53 00-0093)</small>  |                           |                         |
| 22 66 53 00-0290 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 338.34<br>31.30           | 52.16                   |
| 22 66 53 00-0291 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap<br><i>For Work In Restricted Working Space, Add</i>   | 421.18<br>32.14           | 53.58                   |
| 22 66 53 00-0292 EA 2" Glass Acid Resistant DWV Drum P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 433.19<br>32.57           | 54.28                   |
| 22 66 53 00-0293 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 370.54<br>31.30           | 52.16                   |
| 22 66 53 00-0294 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap<br><i>For Work In Restricted Working Space, Add</i>   | 392.16<br>32.14           | 53.58                   |
| 22 66 53 00-0295 EA 2" Glass Acid Resistant DWV Drum P-Trap<br><i>For Work In Restricted Working Space, Add</i>  | 439.42<br>32.57           | 54.28                   |
| <b>22 66 53 00-0296 Glass Acid Resistant DWV Cleanout Plugs</b> <small>(22 66 53 00-0093)</small>  |                           |                         |
| 22 66 53 00-0297 EA 1-1/2" Glass Acid Resistant DWV Cleanout Plug<br><i>For Work In Restricted Working Space, Add</i>  | 54.99<br>10.58            | 17.62                   |
| 22 66 53 00-0298 EA 2" Glass Acid Resistant DWV Cleanout Plug<br><i>For Work In Restricted Working Space, Add</i>  | 61.56<br>11.00            | 18.33                   |
| 22 66 53 00-0299 EA 3" Glass Acid Resistant DWV Cleanout Plug<br><i>For Work In Restricted Working Space, Add</i>  | 76.53<br>12.27            | 20.44                   |
| 22 66 53 00-0300 EA 4" Glass Acid Resistant DWV Cleanout Plug<br><i>For Work In Restricted Working Space, Add</i>  | 119.11<br>16.49           | 27.49                   |
| 22 66 53 00-0301 EA 6" Glass Acid Resistant DWV Cleanout Plug<br><i>For Work In Restricted Working Space, Add</i>  | 169.81<br>22.84           | 38.06                   |
| <b>22 66 53 00-0302 Glass Acid Resistant DWV Sink Fittings</b> <small>(22 66 53 00-0093)</small>   |                           |                         |
| 22 66 53 00-0303 EA 1-1/2" Glass Acid Resistant DWV Interceptor Trap<br><i>For Work In Restricted Working Space, Add</i>   | 704.11<br>41.45           | 69.08                   |
| 22 66 53 00-0304 EA 1-1/2" x 6-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly<br><i>For Work In Restricted Working Space, Add</i>                               | 71.95<br>10.58            | 17.62                   |
| 22 66 53 00-0305 EA 1-1/2" x 10-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly<br><i>For Work In Restricted Working Space, Add</i>                              | 78.98<br>10.58            | 17.62                   |
| 22 66 53 00-0306 EA 1-1/2" Split Coupling (Threaded To Beaded Pipe) For Glass Acid Resistant DWV Pipe And Fittings<br><i>For Work In Restricted Working Space, Add</i> | 113.95<br>21.15           | 35.25                   |
| 22 66 53 00-0307 EA 3" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings<br><i>For Work In Restricted Working Space, Add</i>   | 218.41<br>21.99           | 36.65                   |
| 22 66 53 00-0308 EA 6" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings<br><i>For Work In Restricted Working Space, Add</i>   | 221.06<br>21.99           | 36.65                   |
| 22 66 53 00-0309 EA 3" x 9" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings<br><i>For Work In Restricted Working Space, Add</i>                | 247.56<br>21.99           | 36.65                   |
| 22 66 53 00-0310 EA 3" x 6" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings<br><i>For Work In Restricted Working Space, Add</i>                | 204.09<br>21.99           | 36.65                   |
| <b>22 66 53 00-0311 Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapters</b> <small>(22 66 53 00-0093)</small>                       |                           |                         |
| Note: Includes teflon spacer.  |                           |                         |
| 22 66 53 00-0312 EA 1-1/2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter<br><i>For Work In Restricted Working Space, Add</i>   | 202.35<br>31.21           | 52.02                   |
| 22 66 53 00-0313 EA 2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter<br><i>For Work In Restricted Working Space, Add</i>       | 211.27<br>32.73           | 54.56                   |
| 22 66 53 00-0314 EA 3" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter<br><i>For Work In Restricted Working Space, Add</i>       | 287.35<br>37.31           | 62.17                   |
| 22 66 53 00-0315 EA 4" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter<br><i>For Work In Restricted Working Space, Add</i>       | 407.71<br>49.53           | 82.62                   |
| <b>22 66 53 00-0316 Bead To Bead Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0093)</small>                              |                           |                         |
| Note: Includes segmented stainless steel outer band, Buna-N rubber compression liner with TFE seal ring, stainless steel bolt and silver plated stainless hex nut.     |                           |                         |
| 22 66 53 00-0317 EA 1-1/2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings  | 33.26                     |                         |
| 22 66 53 00-0318 EA 2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings  | 41.96                     |                         |



**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0319 EA 3" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....  | 56.10                     |                         |
| 22 66 53 00-0320 EA 4" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....  | 94.52                     |                         |
| 22 66 53 00-0321 EA 6" Bead To Bead, Stainless Steel, TFE Seal Ring Couplings, Glass Piping.....  | 220.18                    |                         |
| <b>22 66 53 00-0322 Bead To Plain End Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0093)</small>    |                           |                         |
| Note: Includes stainless steel band with bolt, Buna-N rubber compression liner with TFE seal ring and silver plated stainless hex nut.            |                           |                         |
| 22 66 53 00-0323 EA 1-1/2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....                               | 42.89                     |                         |
| 22 66 53 00-0324 EA 2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....                                   | 53.67                     |                         |
| 22 66 53 00-0325 EA 3" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....                                   | 91.12                     |                         |
| 22 66 53 00-0326 EA 4" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....                                   | 135.82                    |                         |
| 22 66 53 00-0327 EA 6" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....                                   | 331.17                    |                         |
| <b>22 66 53 00-0328 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 66 53)</small> |                           |                         |
| Note: Acid resistant. ASTM A518.  |                           |                         |
| <b>22 66 53 00-0329 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe</b> <small>(22 66 53 00-0328)</small>                         |                           |                         |
| 22 66 53 00-0330 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....   | 137.27                    | 12.55                   |
| 22 66 53 00-0331 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....   | 193.16                    | 15.65                   |
| 22 66 53 00-0332 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....   | 262.73                    | 18.05                   |
| 22 66 53 00-0333 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....   | 428.73                    | 23.73                   |
| 22 66 53 00-0334 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....   | 757.62                    | 32.06                   |
| 22 66 53 00-0335 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....  | 1,340.83                  | 40.43                   |
| 22 66 53 00-0336 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....  | 2,391.96                  | 54.46                   |
| 22 66 53 00-0337 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....  | 4,262.46                  | 62.44                   |
| <b>22 66 53 00-0338 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings</b> <small>(22 66 53 00-0329)</small>                     |                           |                         |
| <b>22 66 53 00-0339 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps</b> <small>(22 66 53 00-0338)</small>                  |                           |                         |
| 22 66 53 00-0340 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....   | 550.18                    | 106.86                  |
| 22 66 53 00-0341 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....   | 718.59                    | 117.58                  |
| 22 66 53 00-0342 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....   | 1,165.79                  | 140.70                  |
| 22 66 53 00-0343 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....   | 1,718.71                  | 156.77                  |
| 22 66 53 00-0344 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....   | 3,960.08                  | 257.65                  |
| <b>22 66 53 00-0345 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends</b> <small>(22 66 53 00-0338)</small>                    |                           |                         |
| 22 66 53 00-0346 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....   | 321.57                    | 106.86                  |
| 22 66 53 00-0347 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....   | 418.28                    | 117.58                  |
| 22 66 53 00-0348 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....   | 524.82                    | 140.70                  |
| 22 66 53 00-0349 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....   | 1,364.60                  | 156.77                  |
| 22 66 53 00-0350 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....   | 3,107.08                  | 257.65                  |
| 22 66 53 00-0351 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....  | 4,723.22                  | 321.00                  |
| 22 66 53 00-0352 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....  | 6,941.55                  | 386.02                  |
| <b>22 66 53 00-0353 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends</b> <small>(22 66 53 00-0338)</small>                    |                           |                         |
| 22 66 53 00-0354 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....   | 321.57                    | 106.86                  |
| 22 66 53 00-0355 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....   | 418.28                    | 117.58                  |
| 22 66 53 00-0356 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....   | 524.82                    | 140.70                  |
| 22 66 53 00-0357 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....   | 997.05                    | 156.77                  |
| 22 66 53 00-0358 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....   | 2,631.95                  | 257.65                  |
| 22 66 53 00-0359 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....  | 3,849.83                  | 321.00                  |
| 22 66 53 00-0360 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....  | 5,463.04                  | 386.02                  |
| <b>22 66 53 00-0361 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends</b> <small>(22 66 53 00-0338)</small>                   |                           |                         |
| 22 66 53 00-0362 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....  | 321.57                    | 106.86                  |
| 22 66 53 00-0363 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....  | 418.28                    | 117.58                  |
| 22 66 53 00-0364 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....  | 524.82                    | 140.56                  |
| <b>22 66 53 00-0365 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps</b> <small>(22 66 53 00-0338)</small>                 |                           |                         |
| 22 66 53 00-0366 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....  | 438.12                    | 106.86                  |
| 22 66 53 00-0367 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....  | 772.38                    | 117.58                  |
| 22 66 53 00-0368 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....  | 865.47                    | 140.70                  |
| <b>22 66 53 00-0369 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees</b> <small>(22 66 53 00-0338)</small>                |                           |                         |
| 22 66 53 00-0370 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....   | 454.91                    | 159.88                  |
| 22 66 53 00-0371 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....   | 570.50                    | 177.21                  |
| 22 66 53 00-0372 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....   | 792.43                    | 211.61                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0373 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....  | 1,294.50                  | 235.59                  |
| 22 66 53 00-0374 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....  | 3,991.01                  | 386.79                  |
| 22 66 53 00-0375 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....   | 5,670.24                  | 482.98                  |
| <b>22 66 53 00-0376 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0338)</b>                 |                           |                         |
| 22 66 53 00-0377 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                        | 427.02                    | 153.25                  |
| 22 66 53 00-0378 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                        | 497.72                    | 164.52                  |
| 22 66 53 00-0379 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                            | 555.65                    | 170.30                  |
| 22 66 53 00-0380 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                        | 636.07                    | 188.07                  |
| 22 66 53 00-0381 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                            | 680.91                    | 193.99                  |
| 22 66 53 00-0382 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                            | 747.64                    | 199.77                  |
| 22 66 53 00-0383 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                            | 911.52                    | 203.86                  |
| 22 66 53 00-0384 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                            | 1,012.79                  | 209.11                  |
| 22 66 53 00-0385 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....                            | 1,134.75                  | 218.72                  |
| <b>22 66 53 00-0386 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0338)</b>                                   |                           |                         |
| 22 66 53 00-0387 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....   | 517.59                    | 159.88                  |
| 22 66 53 00-0388 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....   | 623.59                    | 176.79                  |
| 22 66 53 00-0389 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....   | 850.64                    | 211.61                  |
| <b>22 66 53 00-0390 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0338)</b>                          |                           |                         |
| 22 66 53 00-0391 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....                                 | 489.74                    | 153.25                  |
| 22 66 53 00-0392 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....                                     | 610.62                    | 171.15                  |
| 22 66 53 00-0393 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....                                     | 735.52                    | 194.55                  |
| 22 66 53 00-0394 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....                                     | 788.87                    | 200.33                  |
| <b>22 66 53 00-0395 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0338)</b>                                   |                           |                         |
| 22 66 53 00-0396 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....   | 450.73                    | 160.16                  |
| 22 66 53 00-0397 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....   | 619.81                    | 177.21                  |
| 22 66 53 00-0398 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....   | 792.17                    | 211.47                  |
| 22 66 53 00-0399 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....   | 1,302.10                  | 234.71                  |
| 22 66 53 00-0400 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....   | 5,003.44                  | 386.41                  |
| <b>22 66 53 00-0401 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0338)</b>                          |                           |                         |
| 22 66 53 00-0402 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                 | 462.84                    | 153.25                  |
| 22 66 53 00-0403 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                 | 497.65                    | 164.52                  |
| 22 66 53 00-0404 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 525.75                    | 171.29                  |
| 22 66 53 00-0405 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                 | 586.76                    | 188.07                  |
| 22 66 53 00-0406 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 609.54                    | 194.27                  |
| 22 66 53 00-0407 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 730.60                    | 200.33                  |
| 22 66 53 00-0408 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 960.45                    | 204.12                  |
| 22 66 53 00-0409 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 1,142.78                  | 209.11                  |
| 22 66 53 00-0410 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 1,193.03                  | 218.72                  |
| 22 66 53 00-0411 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 2,937.19                  | 311.73                  |
| 22 66 53 00-0412 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 3,172.25                  | 322.02                  |
| 22 66 53 00-0413 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                                     | 3,882.64                  | 338.51                  |
| <b>22 66 53 00-0414 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0338)</b>          |                           |                         |
| 22 66 53 00-0415 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....                          | 535.44                    | 159.88                  |
| 22 66 53 00-0416 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....                          | 637.04                    | 176.79                  |
| 22 66 53 00-0417 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....                          | 940.29                    | 211.61                  |
| 22 66 53 00-0418 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....                          | 1,419.09                  | 234.96                  |
| <b>22 66 53 00-0419 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0338)</b> |                           |                         |
| 22 66 53 00-0420 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....        | 444.91                    | 153.25                  |
| 22 66 53 00-0421 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....        | 515.58                    | 164.52                  |
| 22 66 53 00-0422 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....            | 570.27                    | 171.15                  |
| 22 66 53 00-0423 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....        | 618.14                    | 188.07                  |
| 22 66 53 00-0424 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....            | 713.11                    | 194.55                  |
| 22 66 53 00-0425 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....            | 806.72                    | 200.19                  |
| 22 66 53 00-0426 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....            | 1,018.64                  | 204.12                  |
| 22 66 53 00-0427 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....            | 1,272.85                  | 209.23                  |
| 22 66 53 00-0428 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....            | 1,395.27                  | 219.10                  |
| <b>22 66 53 00-0429 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers (22 66 53 00-0338)</b>                               |                           |                         |
| 22 66 53 00-0430 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....                                      | 276.39                    | 100.66                  |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0431 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 302.74                    | 106.30                  |
| 22 66 53 00-0432 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 338.11                    | 111.94                  |
| 22 66 53 00-0433 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 540.20                    | 124.07                  |
| 22 66 53 00-0434 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 566.60                    | 129.84                  |
| 22 66 53 00-0435 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 599.55                    | 130.78                  |
| 22 66 53 00-0436 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 780.36                    | 140.78                  |
| 22 66 53 00-0437 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 1,136.83                  | 193.27                  |
| 22 66 53 00-0438 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....  | 1,210.71                  | 209.62                  |
| <b>22 66 53 00-0439 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary<br/>Increaseers</b> <small>(22 66 53 00-0338)</small>                         |                           |                         |
| 22 66 53 00-0440 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaseer .....  | 737.93                    | 235.01                  |
| 22 66 53 00-0441 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaseer .....  | 971.01                    | 235.01                  |
| 22 66 53 00-0442 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaseer .....  | 991.93                    | 235.01                  |
| 22 66 53 00-0443 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaseer .....  | 1,087.15                  | 291.68                  |
| <b>22 66 53 00-0444 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps</b> <small>(22 66 53 00-<br/>0338)</small>                                     |                           |                         |
| 22 66 53 00-0445 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....  | 814.63                    | 106.86                  |
| 22 66 53 00-0446 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....  | 983.05                    | 117.58                  |
| 22 66 53 00-0447 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....  | 1,197.17                  | 140.70                  |
| 22 66 53 00-0448 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....  | 3,502.69                  | 156.77                  |
| <b>22 66 53 00-0449 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs</b> <small>(22<br/>66 53 00-0338)</small>                                  |                           |                         |
| 22 66 53 00-0450 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....  | 406.74                    | 106.86                  |
| 22 66 53 00-0451 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....  | 512.41                    | 117.58                  |
| 22 66 53 00-0452 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....  | 704.11                    | 140.70                  |
| 22 66 53 00-0453 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....  | 888.73                    | 156.77                  |
| 22 66 53 00-0454 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....  | 1,735.44                  | 218.72                  |
| <b>22 66 53 00-0455 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant<br/>DWV Pipe And Fittings</b> <small>(22 66 53 00-0328)</small>         |                           |                         |
| Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.   |                           |                         |
| 22 66 53 00-0456 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe<br>And Fittings .....                | 7.19                      |                         |
| 22 66 53 00-0457 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant<br>DWV Pipe And Fittings ..... | 82.18                     |                         |
| <b>22 66 53 00-0458 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent<br/>(DWV) Pipe And Fittings</b> <small>(22 66 53)</small>                |                           |                         |
| Note: ASTM A518.  |                           |                         |
| <b>22 66 53 00-0459 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe</b> <small>(22 66 53 00-0458)</small>  |                           |                         |
| 22 66 53 00-0460 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....   | 108.90                    | 9.44                    |
| 22 66 53 00-0461 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....   | 123.92                    | 10.43                   |
| 22 66 53 00-0462 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....   | 170.88                    | 13.11                   |
| 22 66 53 00-0463 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....   | 215.48                    | 15.22                   |
| <b>22 66 53 00-0464 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings</b> <small>(22 66 53 00-<br/>0458)</small>                                   |                           |                         |
| <b>22 66 53 00-0465 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps</b>   |                           |                         |
| <small>(22 66 53 00-0464)</small>   |                           |                         |
| 22 66 53 00-0466 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....   | 403.63                    | 74.87                   |
| 22 66 53 00-0467 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....   | 436.16                    | 84.59                   |
| 22 66 53 00-0468 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....   | 597.07                    | 93.33                   |
| 22 66 53 00-0469 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....   | 720.51                    | 112.79                  |
| <b>22 66 53 00-0470 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends</b> <small>(22 66<br/>53 00-0464)</small>                                   |                           |                         |
| 22 66 53 00-0471 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....   | 228.82                    | 74.87                   |
| 22 66 53 00-0472 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....   | 273.49                    | 83.74                   |
| 22 66 53 00-0473 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....   | 351.02                    | 93.61                   |
| 22 66 53 00-0474 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....   | 459.26                    | 111.94                  |
| 22 66 53 00-0475 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....  | 266.51                    | 79.09                   |
| <b>22 66 53 00-0476 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends</b> <small>(22 66<br/>53 00-0464)</small>                                   |                           |                         |
| 22 66 53 00-0477 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....   | 228.82                    | 74.87                   |
| 22 66 53 00-0478 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....   | 273.49                    | 83.74                   |
| 22 66 53 00-0479 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....   | 351.02                    | 93.61                   |
| 22 66 53 00-0480 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....   | 459.26                    | 111.94                  |



|                         | MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|------------------|-----|-----|---|------------------------|----------------------|
| <b>22 66 53 00-0481</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends</b> (22 66 53 00-0464)               |                        |                      |
|                         | 22 66 53 00-0482 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend .....                             | 269.16                 | 74.87                |
|                         | 22 66 53 00-0483 | EA  |     | 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....                                  | 336.24                 | 83.74                |
|                         | 22 66 53 00-0484 | EA  |     | 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....                                  | 516.87                 | 93.61                |
|                         | 22 66 53 00-0485 | EA  |     | 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....                                  | 580.29                 | 111.94               |
| <b>22 66 53 00-0486</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends</b> (22 66 53 00-0464)              |                        |                      |
|                         | 22 66 53 00-0487 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend .....                            | 260.20                 | 74.87                |
|                         | 22 66 53 00-0488 | EA  |     | 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....                                 | 309.35                 | 83.74                |
|                         | 22 66 53 00-0489 | EA  |     | 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....                                 | 476.53                 | 93.61                |
|                         | 22 66 53 00-0490 | EA  |     | 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....                                 | 539.95                 | 111.94               |
| <b>22 66 53 00-0491</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends</b> (22 66 53 00-0464) |                        |                      |
|                         | 22 66 53 00-0492 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....                | 393.01                 | 112.64               |
| <b>22 66 53 00-0493</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees</b> (22 66 53 00-0464)  |                        |                      |
|                         | 22 66 53 00-0494 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....                | 321.29                 | 112.64               |
|                         | 22 66 53 00-0495 | EA  |     | 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....                    | 396.41                 | 126.88               |
|                         | 22 66 53 00-0496 | EA  |     | 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....                    | 521.29                 | 141.40               |
|                         | 22 66 53 00-0497 | EA  |     | 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....                    | 787.17                 | 169.32               |
| <b>22 66 53 00-0498</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees</b> (22 66 53 00-0464)  |                        |                      |
|                         | 22 66 53 00-0499 | EA  |     | 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....           | 371.34                 | 122.09               |
|                         | 22 66 53 00-0500 | EA  |     | 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....           | 452.83                 | 131.68               |
|                         | 22 66 53 00-0501 | EA  |     | 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....                                   | 482.23                 | 136.33               |
|                         | 22 66 53 00-0502 | EA  |     | 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....           | 516.80                 | 150.42               |
|                         | 22 66 53 00-0503 | EA  |     | 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....                | 568.11                 | 154.66               |
|                         | 22 66 53 00-0504 | EA  |     | 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....                | 615.47                 | 159.30               |
| <b>22 66 53 00-0505</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes</b> (22 66 53 00-0464)                    |                        |                      |
|                         | 22 66 53 00-0506 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....                                   | 321.85                 | 113.07               |
|                         | 22 66 53 00-0507 | EA  |     | 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....                                       | 378.48                 | 126.88               |
|                         | 22 66 53 00-0508 | EA  |     | 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....                                       | 503.36                 | 141.40               |
|                         | 22 66 53 00-0509 | EA  |     | 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....                                       | 787.17                 | 169.32               |
| <b>22 66 53 00-0510</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes</b> (22 66 53 00-0464)           |                        |                      |
|                         | 22 66 53 00-0511 | EA  |     | 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....                    | 358.82                 | 122.79               |
|                         | 22 66 53 00-0512 | EA  |     | 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....                    | 439.35                 | 131.54               |
|                         | 22 66 53 00-0513 | EA  |     | 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                         | 460.43                 | 136.75               |
|                         | 22 66 53 00-0514 | EA  |     | 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....                    | 517.48                 | 150.85               |
|                         | 22 66 53 00-0515 | EA  |     | 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                         | 569.37                 | 155.50               |
|                         | 22 66 53 00-0516 | EA  |     | 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....                         | 602.61                 | 159.74               |
| <b>22 66 53 00-0517</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes</b> (22 66 53 00-0464)             |                        |                      |
|                         | 22 66 53 00-0518 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                           | 481.23                 | 150.56               |
|                         | 22 66 53 00-0519 | EA  |     | 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                               | 612.56                 | 169.46               |
|                         | 22 66 53 00-0520 | EA  |     | 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                               | 783.08                 | 187.50               |
|                         | 22 66 53 00-0521 | EA  |     | 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                               | 1,019.30               | 225.43               |
|                         | 22 66 53 00-0522 | EA  |     | 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                      | 530.48                 | 159.45               |
|                         | 22 66 53 00-0523 | EA  |     | 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                      | 593.85                 | 168.90               |
|                         | 22 66 53 00-0524 | EA  |     | 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                          | 706.54                 | 178.20               |
|                         | 22 66 53 00-0525 | EA  |     | 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                          | 779.93                 | 197.37               |
|                         | 22 66 53 00-0526 | EA  |     | 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....                          | 938.36                 | 207.38               |
| <b>22 66 53 00-0527</b> |                  |     |     | <b>Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses</b> (22 66 53 00-0464)        |                        |                      |
|                         | 22 66 53 00-0528 | EA  |     | 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                       | 534.93                 | 150.56               |
|                         | 22 66 53 00-0529 | EA  |     | 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                           | 630.16                 | 169.18               |
|                         | 22 66 53 00-0530 | EA  |     | 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                           | 901.24                 | 188.50               |
|                         | 22 66 53 00-0531 | EA  |     | 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                           | 1,257.23               | 225.71               |
|                         | 22 66 53 00-0532 | EA  |     | 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                  | 575.23                 | 159.45               |
|                         | 22 66 53 00-0533 | EA  |     | 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                  | 750.68                 | 168.90               |
|                         | 22 66 53 00-0534 | EA  |     | 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                      | 791.61                 | 178.20               |
|                         | 22 66 53 00-0535 | EA  |     | 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....                      | 847.09                 | 197.23               |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0536 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....   | 1,076.22                  | 206.54                  |
| <b>22 66 53 00-0537 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>                 |                           |                         |
| 22 66 53 00-0538 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....   | 356.59                    | 112.22                  |
| 22 66 53 00-0539 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....   | 414.34                    | 126.88                  |
| 22 66 53 00-0540 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....   | 503.36                    | 141.40                  |
| 22 66 53 00-0541 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....   | 836.48                    | 169.32                  |
| <b>22 66 53 00-0542 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>        |                           |                         |
| 22 66 53 00-0543 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....                             | 393.86                    | 122.23                  |
| 22 66 53 00-0544 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....                             | 439.92                    | 131.96                  |
| 22 66 53 00-0545 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....                                 | 478.36                    | 136.75                  |
| 22 66 53 00-0546 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....                             | 647.47                    | 150.85                  |
| 22 66 53 00-0547 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....                                 | 663.50                    | 155.50                  |
| 22 66 53 00-0548 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....                                 | 741.56                    | 159.74                  |
| <b>22 66 53 00-0549 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>          |                           |                         |
| 22 66 53 00-0550 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....                                     | 566.00                    | 150.28                  |
| 22 66 53 00-0551 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....   | 710.71                    | 169.04                  |
| 22 66 53 00-0552 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....   | 1,021.23                  | 187.93                  |
| 22 66 53 00-0553 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....   | 1,226.57                  | 226.13                  |
| <b>22 66 53 00-0554 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small> |                           |                         |
| 22 66 53 00-0555 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....                      | 615.57                    | 159.45                  |
| 22 66 53 00-0556 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....                      | 737.20                    | 168.76                  |
| 22 66 53 00-0557 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....                          | 769.19                    | 178.20                  |
| 22 66 53 00-0558 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....                          | 856.05                    | 197.23                  |
| 22 66 53 00-0559 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....                          | 1,076.22                  | 206.54                  |
| <b>22 66 53 00-0560 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers</b> <small>(22 66 53 00-0464)</small>                           |                           |                         |
| 22 66 53 00-0561 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....   | 267.69                    | 79.93                   |
| 22 66 53 00-0562 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....   | 301.62                    | 84.59                   |
| 22 66 53 00-0563 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....   | 354.15                    | 98.69                   |
| 22 66 53 00-0564 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....   | 418.47                    | 93.75                   |
| 22 66 53 00-0565 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....   | 443.43                    | 98.41                   |
| 22 66 53 00-0566 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....   | 468.39                    | 103.06                  |
| <b>22 66 53 00-0567 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees</b> <small>(22 66 53 00-0464)</small>            |                           |                         |
| 22 66 53 00-0568 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....                                      | 246.60                    | 65.83                   |
| 22 66 53 00-0569 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....  | 286.42                    | 74.44                   |
| 22 66 53 00-0570 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....  | 336.98                    | 84.31                   |
| 22 66 53 00-0571 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....  | 611.12                    | 102.63                  |
| <b>22 66 53 00-0572 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs</b> <small>(22 66 53 00-0464)</small>                                    |                           |                         |
| 22 66 53 00-0573 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....   | 109.93                    | 37.50                   |
| 22 66 53 00-0574 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....   | 130.02                    | 41.87                   |
| 22 66 53 00-0575 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....   | 141.90                    | 46.81                   |
| 22 66 53 00-0576 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....   | 182.57                    | 55.97                   |
| <b>22 66 53 00-0577 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps</b> <small>(22 66 53 00-0464)</small>                                       |                           |                         |
| 22 66 53 00-0578 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....  | 447.79                    | 74.44                   |
| 22 66 53 00-0579 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....  | 461.75                    | 83.74                   |
| 22 66 53 00-0580 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....  | 570.66                    | 93.61                   |
| 22 66 53 00-0581 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....  | 728.20                    | 111.94                  |
| 22 66 53 00-0582 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....  | 621.98                    | 80.07                   |
| 22 66 53 00-0583 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....  | 855.72                    | 89.39                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0584 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....   | 1,035.42                  | 98.69                   |
| 22 66 53 00-0585 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....   | 1,287.83                  | 117.58                  |
| <b>22 66 53 00-0586 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps</b> <small>(22 66 53 00-0464)</small>               |                           |                         |
| 22 66 53 00-0587 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....  | 831.12                    | 85.01                   |
| 22 66 53 00-0588 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....  | 1,310.88                  | 94.03                   |
| 22 66 53 00-0589 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....  | 866.47                    | 84.59                   |
| 22 66 53 00-0590 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....  | 1,310.88                  | 94.03                   |
| <b>22 66 53 00-0591 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps</b> <small>(22 66 53 00-0464)</small>                                |                           |                         |
| 22 66 53 00-0592 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....   | 772.34                    | 84.59                   |
| 22 66 53 00-0593 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....   | 907.46                    | 94.03                   |
| 22 66 53 00-0594 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap.....  | 893.36                    | 84.59                   |
| 22 66 53 00-0595 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....  | 1,960.82                  | 94.03                   |
| 22 66 53 00-0596 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....  | 1,167.44                  | 94.03                   |
| <b>22 66 53 00-0597 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends</b> <small>(22 66 53 00-0464)</small>                                     |                           |                         |
| 22 66 53 00-0598 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....  | 323.46                    | 75.29                   |
| 22 66 53 00-0599 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....  | 422.72                    | 84.59                   |
| <b>22 66 53 00-0600 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters</b> <small>(22 66 53 00-0464)</small>                                |                           |                         |
| 22 66 53 00-0601 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....  | 165.27                    | 56.39                   |
| 22 66 53 00-0602 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....  | 302.31                    | 61.19                   |
| 22 66 53 00-0603 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....  | 222.28                    | 70.49                   |
| <b>22 66 53 00-0604 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter</b> <small>(22 66 53 00-0464)</small>                      |                           |                         |
| 22 66 53 00-0605 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....                                       | 308.60                    | 80.21                   |
| 22 66 53 00-0606 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 337.48                    | 84.59                   |
| 22 66 53 00-0607 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 375.91                    | 89.24                   |
| 22 66 53 00-0608 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 403.08                    | 98.41                   |
| 22 66 53 00-0609 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 375.98                    | 89.39                   |
| 22 66 53 00-0610 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 396.40                    | 94.03                   |
| 22 66 53 00-0611 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 428.04                    | 103.06                  |
| 22 66 53 00-0612 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....   | 484.21                    | 98.69                   |
| 22 66 53 00-0613 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter.....  | 597.57                    | 117.58                  |
| <b>22 66 53 00-0614 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0464)</small> |                           |                         |
| 22 66 53 00-0615 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....                            | 107.58                    |                         |
| 22 66 53 00-0616 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....                                | 125.51                    |                         |
| 22 66 53 00-0617 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....                                | 134.47                    |                         |
| 22 66 53 00-0618 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....                                | 147.92                    |                         |
| <b>22 66 53 00-0619 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings</b> <small>(22 66 53 00-0464)</small>  |                           |                         |
| 22 66 53 00-0620 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet.....   | 795.98                    | 37.64                   |
| 22 66 53 00-0621 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper.....   | 301.62                    | 18.75                   |
| 22 66 53 00-0622 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....   | 561.60                    | 18.75                   |
| <b>22 66 53 00-0623 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates</b> <small>(22 66 53 00-0464)</small>    |                           |                         |
| 22 66 53 00-0624 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....   | 2,854.84                  | 188.07                  |
| 22 66 53 00-0625 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....                              | 3,523.35                  | 197.52                  |
| 22 66 53 00-0626 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain.....                                     | 2,367.98                  | 18.75                   |
| <b>22 66 53 00-0627 Chlorinated Polyvinyl Chloride (CPVC) Drain-Waste-Vent (DWV) Pipe And Fittings (ASTM F2618)</b> <small>(22 66 53)</small>                          |                           |                         |
| <b>22 66 53 00-0628 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe</b> <small>(22 66 53 00-0627)</small>   |                           |                         |
| Note: Excludes fittings or hangers.  |                           |                         |
| 22 66 53 00-0629 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....   | 17.86                     | 5.92                    |
| 22 66 53 00-0630 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....   | 22.80                     | 7.05                    |
| 22 66 53 00-0631 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....   | 37.25                     | 10.15                   |
| 22 66 53 00-0632 LF 4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....   | 47.78                     | 11.00                   |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0633 LF 6" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe .....                   | 75.28                     | 12.49                   |
| 22 66 53 00-0634 LF 8" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe .....                   | 168.81                    | 16.61                   |
| <b>22 66 53 00-0635 Chlorinated Polyvinyl Chloride (CPVC) DWV Fittings (22 66 53 00-0627)</b>             |                           |                         |
| <b>22 66 53 00-0636 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends (22 66 53 00-0635)</b>            |                           |                         |
| 22 66 53 00-0637 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends .....                      | 69.91                     | 23.54                   |
| Note: 0.125   |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 10.58                     |                         |
| 22 66 53 00-0638 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends .....                          | 88.16                     | 30.03                   |
| Note: 0.16  |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.53                     |                         |
| 22 66 53 00-0639 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends .....                          | 133.75                    | 40.32                   |
| Note: 0.215   |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 18.19                     |                         |
| 22 66 53 00-0640 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends .....                          | 186.81                    | 46.95                   |
| Note: 0.25  |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| 22 66 53 00-0641 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends .....                          | 392.67                    | 61.05                   |
| Note: 0.325   |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 27.49                     |                         |
| 22 66 53 00-0642 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends .....                          | 542.93                    | 82.20                   |
| Note: 0.438   |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 37.01                     |                         |
| <b>22 66 53 00-0643 Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends (22 66 53 00-0635)</b> |                           |                         |
| 22 66 53 00-0644 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends .....           | 71.11                     | 23.54                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.58                     |                         |
| 22 66 53 00-0645 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends .....               | 93.99                     | 30.03                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.53                     |                         |
| 22 66 53 00-0646 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends .....               | 144.25                    | 40.32                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.19                     |                         |
| 22 66 53 00-0647 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends .....               | 190.67                    | 46.95                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| <b>22 66 53 00-0648 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends (22 66 53 00-0635)</b>            |                           |                         |
| 22 66 53 00-0649 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends .....                      | 69.30                     | 23.54                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.58                     |                         |
| 22 66 53 00-0650 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends .....                          | 86.59                     | 30.03                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.53                     |                         |
| 22 66 53 00-0651 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends .....                          | 136.76                    | 40.32                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.19                     |                         |
| 22 66 53 00-0652 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends .....                          | 156.77                    | 46.95                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| 22 66 53 00-0653 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends .....                          | 343.63                    | 61.05                   |
| <i>For Work In Restricted Working Space, Add</i>  | 27.49                     |                         |
| 22 66 53 00-0654 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends .....                          | 486.70                    | 82.20                   |
| <i>For Work In Restricted Working Space, Add</i>  | 37.01                     |                         |
| <b>22 66 53 00-0655 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends (22 66 53 00-0635)</b>           |                           |                         |
| 22 66 53 00-0656 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends .....                     | 69.98                     | 23.54                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.58                     |                         |
| 22 66 53 00-0657 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends .....                         | 86.54                     | 30.03                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.53                     |                         |
| 22 66 53 00-0658 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends .....                         | 135.51                    | 40.32                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.19                     |                         |
| 22 66 53 00-0659 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends .....                         | 166.56                    | 46.95                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| 22 66 53 00-0660 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends .....                         | 283.72                    | 61.05                   |
| <i>For Work In Restricted Working Space, Add</i>  | 27.49                     |                         |
| 22 66 53 00-0661 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends .....                         | 321.41                    | 82.20                   |
| <i>For Work In Restricted Working Space, Add</i>  | 37.01                     |                         |
| <b>22 66 53 00-0662 Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends (22 66 53 00-0635)</b>     |                           |                         |
| 22 66 53 00-0663 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends .....                   | 375.07                    | 60.63                   |
| <i>For Work In Restricted Working Space, Add</i>  | 27.28                     |                         |
| 22 66 53 00-0664 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends .....                   | 289.93                    | 45.11                   |
| <i>For Work In Restricted Working Space, Add</i>  | 20.30                     |                         |
| 22 66 53 00-0665 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends .....               | 180.02                    | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>  | 15.86                     |                         |
| <b>22 66 53 00-0666 Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees (22 66 53 00-0635)</b>        |                           |                         |
| 22 66 53 00-0667 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees .....                  | 95.91                     | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>  | 15.86                     |                         |
| 22 66 53 00-0668 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees .....                      | 119.25                    | 45.11                   |
| <i>For Work In Restricted Working Space, Add</i>  | 20.30                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 53 00-0669 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                              | 194.14<br>27.28           | 60.63                   |
| 22 66 53 00-0670 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                              | 260.33<br>31.72           | 70.49                   |
| 22 66 53 00-0671 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                              | 652.73<br>41.24           | 91.50                   |
| 22 66 53 00-0672 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees .....<br><i>For Work In Restricted Working Space, Add</i>                              | 903.06<br>55.51           | 123.21                  |
| <b>22 66 53 00-0673 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0674 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>    | 109.27<br>17.34           | 38.48                   |
| 22 66 53 00-0675 EA 2" x 1-1/2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 116.54<br>18.82           | 41.73                   |
| 22 66 53 00-0676 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 114.21<br>18.82           | 41.73                   |
| 22 66 53 00-0677 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>        | 167.82<br>23.47           | 52.16                   |
| 22 66 53 00-0678 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 179.49<br>24.95           | 55.41                   |
| 22 66 53 00-0679 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 231.17<br>27.92           | 62.03                   |
| 22 66 53 00-0680 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 245.11<br>30.24           | 67.10                   |
| 22 66 53 00-0681 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 487.70<br>38.06           | 84.45                   |
| 22 66 53 00-0682 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>            | 1,099.53<br>47.58         | 105.60                  |
| <b>22 66 53 00-0683 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0684 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                    | 135.35<br>21.15           | 46.95                   |
| 22 66 53 00-0685 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                        | 166.72<br>27.07           | 60.05                   |
| 22 66 53 00-0686 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                        | 223.53<br>36.37           | 80.78                   |
| 22 66 53 00-0687 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....<br><i>For Work In Restricted Working Space, Add</i>                        | 277.50<br>42.29           | 93.89                   |
| <b>22 66 53 00-0688 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Sanitary Tees</b> <small>(22 66 53 00-0635)</small>                                     |                           |                         |
| 22 66 53 00-0689 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i> | 165.80<br>24.11           | 53.58                   |
| 22 66 53 00-0690 EA 3" x 3" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i> | 198.00<br>28.76           | 63.86                   |
| 22 66 53 00-0691 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i>         | 249.51<br>31.72           | 70.49                   |
| 22 66 53 00-0692 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i>         | 226.54<br>34.68           | 76.98                   |
| 22 66 53 00-0693 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee .....<br><i>For Work In Restricted Working Space, Add</i>         | 253.62<br>39.34           | 87.26                   |
| <b>22 66 53 00-0694 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0695 EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                           | 93.16<br>12.05            | 26.79                   |
| 22 66 53 00-0696 EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                           | 103.87<br>14.38           | 31.86                   |
| 22 66 53 00-0697 EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 164.73<br>15.86           | 35.25                   |
| 22 66 53 00-0698 EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 180.73<br>17.34           | 38.48                   |
| 22 66 53 00-0699 EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 199.69<br>19.67           | 43.70                   |
| 22 66 53 00-0700 EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 268.48<br>22.84           | 50.75                   |
| 22 66 53 00-0701 EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....<br><i>For Work In Restricted Working Space, Add</i>                               | 307.89<br>24.32           | 54.00                   |
| <b>22 66 53 00-0702 Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushings</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0703 EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing .....<br><i>For Work In Restricted Working Space, Add</i>                     | 69.05<br>12.05            | 26.79                   |
| 22 66 53 00-0704 EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing .....<br><i>For Work In Restricted Working Space, Add</i>                     | 78.44<br>14.38            | 31.86                   |
| 22 66 53 00-0705 EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing .....<br><i>For Work In Restricted Working Space, Add</i>                         | 86.12<br>15.86            | 35.25                   |



**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0706 EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                 | 131.63<br>17.34           | 38.48                   |
| 22 66 53 00-0707 EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                 | 141.09<br>19.67           | 43.70                   |
| 22 66 53 00-0708 EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                 | 214.70<br>22.84           | 50.75                   |
| 22 66 53 00-0709 EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                 | 213.21<br>24.32           | 54.00                   |
| 22 66 53 00-0710 EA 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                 | 577.33<br>29.10           | 64.57                   |
| 22 66 53 00-0711 EA 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....<br><i>For Work In Restricted Working Space, Add</i>                 | 608.68<br>32.27           | 71.62                   |
| <b>22 66 53 00-0712 Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps (22 66 53 00-0635)</b>   |                           |                         |
| 22 66 53 00-0713 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                       | 120.45<br>15.86           | 35.25                   |
| 22 66 53 00-0714 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                           | 161.98<br>20.30           | 45.11                   |
| 22 66 53 00-0715 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                           | 262.11<br>27.28           | 60.63                   |
| 22 66 53 00-0716 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps .....<br><i>For Work In Restricted Working Space, Add</i>                           | 410.00<br>31.72           | 70.49                   |
| <b>22 66 53 00-0717 Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes (22 66 53 00-0635)</b>  |                           |                         |
| 22 66 53 00-0718 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                          | 96.75<br>15.86            | 35.25                   |
| 22 66 53 00-0719 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                              | 129.24<br>20.30           | 45.11                   |
| 22 66 53 00-0720 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                              | 200.66<br>27.28           | 60.63                   |
| 22 66 53 00-0721 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                              | 265.68<br>31.72           | 70.49                   |
| 22 66 53 00-0722 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                              | 543.48<br>41.24           | 91.50                   |
| 22 66 53 00-0723 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes .....<br><i>For Work In Restricted Working Space, Add</i>                              | 626.99<br>55.51           | 123.21                  |
| <b>22 66 53 00-0724 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes (22 66 53 00-0635)</b>   |                           |                         |
| 22 66 53 00-0725 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>    | 105.77<br>17.34           | 38.48                   |
| 22 66 53 00-0726 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>        | 124.30<br>18.82           | 41.73                   |
| 22 66 53 00-0727 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>        | 172.72<br>23.47           | 52.16                   |
| 22 66 53 00-0728 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>           | 185.46<br>24.95           | 55.41                   |
| 22 66 53 00-0729 EA 4" x 4" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes.....<br><i>For Work In Restricted Working Space, Add</i>        | 189.64<br>26.43           | 58.65                   |
| 22 66 53 00-0730 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>           | 240.26<br>27.92           | 62.03                   |
| 22 66 53 00-0731 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>           | 254.33<br>30.24           | 67.10                   |
| 22 66 53 00-0732 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>           | 390.54<br>38.06           | 84.45                   |
| 22 66 53 00-0733 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>           | 465.74<br>47.58           | 105.60                  |
| 22 66 53 00-0734 EA 8" x 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes .....<br><i>For Work In Restricted Working Space, Add</i>           | 511.00<br>50.75           | 112.64                  |
| <b>22 66 53 00-0735 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes (22 66 53 00-0635)</b>   |                           |                         |
| 22 66 53 00-0736 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                    | 152.84<br>21.15           | 46.95                   |
| 22 66 53 00-0737 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                        | 177.28<br>27.07           | 60.05                   |
| 22 66 53 00-0738 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                        | 278.61<br>36.37           | 80.78                   |
| 22 66 53 00-0739 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                        | 499.99<br>42.29           | 93.89                   |
| 22 66 53 00-0740 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                        | 807.60<br>54.98           | 122.09                  |
| <b>22 66 53 00-0741 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Wyes (22 66 53 00-0635)</b>  |                           |                         |
| 22 66 53 00-0742 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i> | 210.99<br>24.11           | 53.58                   |
| 22 66 53 00-0743 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>         | 266.48<br>31.72           | 70.49                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0744 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 449.14<br>39.34           | 87.26                   |
| 22 66 53 00-0745 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 659.09<br>48.64           | 107.99                  |
| <b>22 66 53 00-0746 Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0747 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                           | 110.16<br>15.86           | 35.25                   |
| 22 66 53 00-0748 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 144.14<br>20.30           | 45.11                   |
| 22 66 53 00-0749 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 212.99<br>27.28           | 60.63                   |
| 22 66 53 00-0750 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 279.10<br>31.72           | 70.49                   |
| 22 66 53 00-0751 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 606.02<br>41.24           | 91.50                   |
| 22 66 53 00-0752 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                               | 1,047.19<br>55.51         | 123.21                  |
| <b>22 66 53 00-0753 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>   |                           |                         |
| 22 66 53 00-0754 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>             | 105.47<br>17.34           | 38.48                   |
| 22 66 53 00-0755 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                 | 131.58<br>18.82           | 41.73                   |
| 22 66 53 00-0756 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                 | 179.77<br>23.47           | 52.16                   |
| 22 66 53 00-0757 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 193.16<br>24.95           | 55.41                   |
| 22 66 53 00-0758 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 245.34<br>27.92           | 62.03                   |
| 22 66 53 00-0759 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 260.58<br>30.24           | 67.10                   |
| 22 66 53 00-0760 EA 6" x 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 476.62<br>36.59           | 81.20                   |
| 22 66 53 00-0761 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                     | 495.21<br>38.06           | 84.45                   |
| <b>22 66 53 00-0762 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>   |                           |                         |
| 22 66 53 00-0763 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                    | 163.53<br>21.15           | 46.95                   |
| 22 66 53 00-0764 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                        | 241.37<br>27.07           | 60.05                   |
| 22 66 53 00-0765 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                        | 381.01<br>36.37           | 80.78                   |
| 22 66 53 00-0766 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                        | 633.23<br>42.29           | 93.89                   |
| 22 66 53 00-0767 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>                        | 869.20<br>54.98           | 122.09                  |
| <b>22 66 53 00-0768 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>                                      |                           |                         |
| 22 66 53 00-0769 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i> | 211.00<br>24.11           | 53.58                   |
| 22 66 53 00-0770 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>         | 323.52<br>31.72           | 70.49                   |
| 22 66 53 00-0771 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>         | 388.31<br>34.68           | 76.98                   |
| 22 66 53 00-0772 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>         | 403.83<br>39.34           | 87.26                   |
| 22 66 53 00-0773 EA 6" x 6" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>         | 508.44<br>45.68           | 101.36                  |
| 22 66 53 00-0774 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends .....<br><i>For Work In Restricted Working Space, Add</i>         | 568.59<br>48.64           | 107.99                  |
| <b>22 66 53 00-0775 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees With Plug</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0776 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....<br><i>For Work In Restricted Working Space, Add</i>  | 104.14<br>15.86           | 35.25                   |
| 22 66 53 00-0777 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....<br><i>For Work In Restricted Working Space, Add</i>  | 124.32<br>20.30           | 45.11                   |
| 22 66 53 00-0778 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....<br><i>For Work In Restricted Working Space, Add</i>  | 209.69<br>27.28           | 60.63                   |
| 22 66 53 00-0779 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....<br><i>For Work In Restricted Working Space, Add</i>  | 267.47<br>31.72           | 70.49                   |

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 22 66 53 00-0780 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees.....<br><i>For Work In Restricted Working Space, Add</i>                    | 574.24<br>41.24           | 91.50                   |
| 22 66 53 00-0781 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....<br><i>For Work In Restricted Working Space, Add</i>                | 25.37<br>5.29             | 11.70                   |
| 22 66 53 00-0782 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....<br><i>For Work In Restricted Working Space, Add</i>                    | 31.04<br>6.77             | 14.94                   |
| 22 66 53 00-0783 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....<br><i>For Work In Restricted Working Space, Add</i>                    | 45.12<br>9.09             | 20.16                   |
| 22 66 53 00-0784 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....<br><i>For Work In Restricted Working Space, Add</i>                    | 51.86<br>10.58            | 23.40                   |
| 22 66 53 00-0785 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug.....<br><i>For Work In Restricted Working Space, Add</i>                    | 84.55<br>13.74            | 30.45                   |
| <b>22 66 53 00-0786 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug</b><br><small>(22 66 53 00-0635)</small>                         |                           |                         |
| 22 66 53 00-0787 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i> | 57.67<br>10.58            | 23.54                   |
| 22 66 53 00-0788 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>     | 71.54<br>13.53            | 30.03                   |
| 22 66 53 00-0789 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>     | 109.40<br>18.19           | 40.32                   |
| 22 66 53 00-0790 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>     | 154.38<br>21.15           | 46.95                   |
| 22 66 53 00-0791 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>     | 236.76<br>27.49           | 61.05                   |
| 22 66 53 00-0792 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug .....<br><i>For Work In Restricted Working Space, Add</i>     | 412.31<br>37.05           | 82.20                   |
| <b>22 66 53 00-0793 Chlorinated Polyvinyl Chloride (CPVC) Couplings</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0794 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i>                       | 62.33<br>10.58            | 23.54                   |
| 22 66 53 00-0795 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 78.90<br>13.53            | 30.03                   |
| 22 66 53 00-0796 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 103.87<br>18.19           | 40.32                   |
| 22 66 53 00-0797 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 132.02<br>21.15           | 46.95                   |
| 22 66 53 00-0798 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 189.16<br>27.49           | 61.05                   |
| 22 66 53 00-0799 EA 8" Chlorinated Polyvinyl Chloride (CPVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 386.48<br>37.05           | 82.20                   |
| <b>22 66 53 00-0800 Chlorinated Polyvinyl Chloride (CPVC) Female Adapters</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0801 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                 | 38.92<br>10.58            | 11.70                   |
| 22 66 53 00-0802 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                     | 51.57<br>13.53            | 15.08                   |
| 22 66 53 00-0803 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                     | 78.18<br>18.19            | 20.16                   |
| 22 66 53 00-0804 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                     | 127.28<br>21.15           | 23.54                   |
| 22 66 53 00-0805 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                     | 199.97<br>27.49           | 30.45                   |
| <b>22 66 53 00-0806 Chlorinated Polyvinyl Chloride (CPVC) Male Adapters</b> <small>(22 66 53 00-0635)</small>  |                           |                         |
| 22 66 53 00-0807 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                   | 43.12<br>10.58            | 11.70                   |
| 22 66 53 00-0808 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                       | 60.84<br>13.53            | 15.08                   |
| 22 66 53 00-0809 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                       | 72.23<br>18.19            | 20.16                   |
| 22 66 53 00-0810 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                       | 122.64<br>21.15           | 23.54                   |
| 22 66 53 00-0811 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters .....<br><i>For Work In Restricted Working Space, Add</i>                       | 163.77<br>27.49           | 30.45                   |
| <b>22 66 53 00-0812 Chlorinated Polyvinyl Chloride (CPVC) Caps</b> <small>(22 66 53 00-0635)</small>   |                           |                         |
| 22 66 53 00-0813 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 38.67<br>10.58            | 11.70                   |
| 22 66 53 00-0814 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....<br><i>For Work In Restricted Working Space, Add</i>                              | 47.75<br>13.53            | 15.08                   |
| 22 66 53 00-0815 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....<br><i>For Work In Restricted Working Space, Add</i>                              | 73.85<br>18.19            | 20.16                   |
| 22 66 53 00-0816 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....<br><i>For Work In Restricted Working Space, Add</i>                              | 124.01<br>21.15           | 23.54                   |
| 22 66 53 00-0817 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....<br><i>For Work In Restricted Working Space, Add</i>                              | 158.29<br>27.49           | 30.45                   |
| 22 66 53 00-0818 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....<br><i>For Work In Restricted Working Space, Add</i>                              | 247.23<br>37.05           | 41.17                   |
| <b>22 66 83 Chemical-Waste Tanks</b> <small>(22 66)</small>  |                           |                         |
| <b>22 66 83 16 Chemical-Waste Neutralization Tanks</b> <small>(22 66 83)</small>   |                           |                         |
| <b>22 66 83 16-0001 Acid Neutralization Tank</b> <small>(22 66 83 16)</small>  |                           |                         |
| <b>22 66 83 16-0002 Polyethylene Acid Neutralization Tank</b> <small>(22 66 83 16-0001)</small>  |                           |                         |
| 22 66 83 16-0003 EA 5 Gallon Capacity Polyethylene Acid Neutralization Tank .....  | 655.13                    | 287.12                  |
| 22 66 83 16-0004 EA 15 Gallon Capacity Polyethylene Acid Neutralization Tank .....   | 1,159.94                  | 398.14                  |
| 22 66 83 16-0005 EA 30 Gallon Capacity Polyethylene Acid Neutralization Tank .....   | 1,460.00                  | 574.24                  |
| 22 66 83 16-0006 EA 55 Gallon Capacity Polyethylene Acid Neutralization Tank .....   | 1,880.56                  | 765.66                  |
| 22 66 83 16-0007 EA 100 Gallon Capacity Polyethylene Acid Neutralization Tank .....  | 2,400.42                  | 918.79                  |
| 22 66 83 16-0008 EA 150 Gallon Capacity Polyethylene Acid Neutralization Tank .....  | 3,258.06                  | 1,148.49                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 22 66 83 16-0009 EA 200 Gallon Capacity Polyethylene Acid Neutralization Tank .....             | 3,786.13                  | 1,435.61                |
| 22 66 83 16-0010 EA 275 Gallon Capacity Polyethylene Acid Neutralization Tank .....             | 4,883.68                  | 1,722.72                |
| 22 66 83 16-0011 EA 350 Gallon Capacity Polyethylene Acid Neutralization Tank .....             | 5,569.99                  | 2,067.27                |
| <b>22 66 83 16-0012 Polypropylene Acid Neutralization Tank (22 66 83 16-0001)</b>               |                           |                         |
| 22 66 83 16-0013 EA 5 Gallon Capacity Polypropylene Acid Neutralization Tank .....              | 1,036.32                  | 287.12                  |
| 22 66 83 16-0014 EA 15 Gallon Capacity Polypropylene Acid Neutralization Tank .....             | 1,763.51                  | 398.14                  |
| 22 66 83 16-0015 EA 30 Gallon Capacity Polypropylene Acid Neutralization Tank .....             | 2,809.84                  | 574.24                  |
| 22 66 83 16-0016 EA 55 Gallon Capacity Polypropylene Acid Neutralization Tank .....             | 3,704.80                  | 765.66                  |
| 22 66 83 16-0017 EA 100 Gallon Capacity Polypropylene Acid Neutralization Tank .....            | 4,676.71                  | 918.79                  |
| 22 66 83 16-0018 EA 150 Gallon Capacity Polypropylene Acid Neutralization Tank .....            | 5,313.81                  | 1,148.49                |
| 22 66 83 16-0019 EA 200 Gallon Capacity Polypropylene Acid Neutralization Tank .....            | 5,832.81                  | 1,435.61                |
| 22 66 83 16-0020 EA 275 Gallon Capacity Polypropylene Acid Neutralization Tank .....            | 8,457.45                  | 1,722.72                |
| 22 66 83 16-0021 EA 350 Gallon Capacity Polypropylene Acid Neutralization Tank .....            | 9,191.39                  | 2,067.27                |
| <b>22 66 83 16-0022 Chemical Dilution Trap (22 66 83 16)</b>                                    |                           |                         |
| 22 66 83 16-0023 EA 1 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....     | 561.51                    | 95.71                   |
| Note: 1-1/2" top inlet and side outlet with anti siphon.  |                           |                         |
| 22 66 83 16-0024 EA 1-1/2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap ..... | 578.35                    | 95.71                   |
| Note: 1-1/2" top inlet and side outlet with anti siphon.  |                           |                         |
| 22 66 83 16-0025 EA 2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....     | 595.20                    | 95.71                   |
| Note: 1-1/2" top inlet and side outlet with anti siphon.  |                           |                         |
| 22 66 83 16-0026 EA 5 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....     | 655.78                    | 114.85                  |
| Note: 1-1/2" top inlet and side outlet with anti siphon.  |                           |                         |

**END OF SECTION 22**

**22 Plumbing**

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

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| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

### 23 01 Operation and Maintenance of HVAC Systems <sup>(23)</sup>

#### 23 01 10 Operation and Maintenance of Facility Fuel Systems <sup>(23 01)</sup>

##### 23 01 10 91 Facility Fuel Systems Restoration <sup>(23 01 10)</sup>

##### 23 01 10 91-0001 Purge Gas Systems <sup>(23 01 10 91)</sup>

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

|                  |    |  |           |
|------------------|----|--|-----------|
| 23 01 10 91-0002 | EA | Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....         | 707.14    |
| 23 01 10 91-0003 | EA | >100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....      | 1,009.89  |
| 23 01 10 91-0004 | EA | >250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....      | 1,059.97  |
| 23 01 10 91-0005 | EA | >500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....    | 1,168.44  |
| 23 01 10 91-0006 | EA | >1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....  | 2,115.97  |
| 23 01 10 91-0007 | EA | Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....        | 949.78    |
| 23 01 10 91-0008 | EA | >100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....     | 1,363.65  |
| 23 01 10 91-0009 | EA | >250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....     | 1,440.91  |
| 23 01 10 91-0010 | EA | >500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....   | 1,607.52  |
| 23 01 10 91-0011 | EA | >1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems..... | 2,920.48  |
| 23 01 10 91-0012 | EA | Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....           | 1,119.97  |
| 23 01 10 91-0013 | EA | >100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....        | 1,641.85  |
| 23 01 10 91-0014 | EA | >250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....        | 3,789.07  |
| 23 01 10 91-0015 | EA | >500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....      | 5,904.51  |
| 23 01 10 91-0016 | EA | >1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....    | 11,088.63 |

#### 23 01 20 Operation and Maintenance of HVAC Piping and Pumps <sup>(23 01)</sup>

##### 23 01 20 91 HVAC Piping and Pumps Restoration <sup>(23 01 20)</sup>

##### 23 01 20 91-0001 Lock Out/Tag Out System <sup>(23 01 20 91)</sup>

|                  |    |  |       |
|------------------|----|--|-------|
| 23 01 20 91-0002 | EA | Up To 1", Lock Out/Tag Out Valve.....  | 38.28 |
|                  |    | Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s). |       |
| 23 01 20 91-0003 | EA | >1" To 3", Lock Out/Tag Out Valve.....   | 45.94 |
|                  |    | Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s). |       |
| 23 01 20 91-0004 | EA | >3" To 6", Lock Out/Tag Out Valve.....   | 53.60 |
|                  |    | Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s). |       |
| 23 01 20 91-0005 | EA | >6" To 10", Lock Out/Tag Out Valve.....  | 61.25 |
|                  |    | Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s). |       |
| 23 01 20 91-0006 | EA | >10" To 14", Lock Out/Tag Out Valve.....   | 76.57 |
|                  |    | Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s). |       |
| 23 01 20 91-0007 | EA | Lock Out Padlock.....  | 15.31 |
| 23 01 20 91-0008 | EA | Lock Out Tags.....   | 5.73  |

##### 23 01 20 91-0009 Freeze Pipe Using CO2 Kit <sup>(23 01 20 91)</sup>

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

|                  |    |   |        |
|------------------|----|---|--------|
| 23 01 20 91-0010 | EA | Up To 2" Freeze Pipe Using CO2 Kit..... | 408.26 |
|------------------|----|---|--------|

##### 23 01 20 91-0011 Pipe Freezing <sup>(23 01 20 91)</sup>

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

|                  |    |  |          |
|------------------|----|--|----------|
| 23 01 20 91-0012 | EA | Up To 1" Pipe Freezing, First Location.....                            | 805.75   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0013 | EA | Up To 1" Pipe Freezing, Each Additional Location After First.....      | 444.84   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0014 | EA | >1" To 1-1/2" Pipe Freezing, First Location.....                       | 972.69   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0015 | EA | >1" To 1-1/2" Pipe Freezing, Each Additional Location After First..... | 513.60   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0016 | EA | >1-1/2" To 2" Pipe Freezing, First Location.....                       | 1,326.85 |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0017 | EA | >1-1/2" To 2" Pipe Freezing, Each Additional Location After First..... | 582.59   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0018 | EA | >2" To 3" Pipe Freezing, First Location.....                           | 1,512.49 |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0019 | EA | >2" To 3" Pipe Freezing, Each Additional Location After First.....     | 683.15   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0020 | EA | >3" To 4" Pipe Freezing, First Location.....                           | 2,195.45 |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0021 | EA | >3" To 4" Pipe Freezing, Each Additional Location After First.....     | 789.21   |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |
| 23 01 20 91-0022 | EA | >4" To 6" Pipe Freezing, First Location.....                           | 4,453.89 |
|                  |    | Note: Includes freezing on each side of valve or fitting.              |          |

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 01 Operation and Maintenance of HVAC Systems

23 01 20 Operation and Maintenance of HVAC Piping and Pumps



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|---|------------------------|----------------------|
| 23 01 20 91-0023  | EA  |     | >4" To 6" Pipe Freezing, Each Additional Location After First<br>Note: Includes freezing on each side of valve or fitting.  | 1,026.18               |                      |
| 23 01 20 91-0024  | EA  |     | >6" To 8" Pipe Freezing, First Location<br>Note: Includes freezing on each side of valve or fitting.  | 5,925.37               |                      |
| 23 01 20 91-0025  | EA  |     | >6" To 8" Pipe Freezing, Each Additional Location After First<br>Note: Includes freezing on each side of valve or fitting.  | 1,498.15               |                      |
| 23 01 20 91-0026  | EA  |     | >8" To 10" Pipe Freezing, First Location<br>Note: Includes freezing on each side of valve or fitting.   | 8,160.11               |                      |
| 23 01 20 91-0027  | EA  |     | >8" To 10" Pipe Freezing, Each Additional Location After First<br>Note: Includes freezing on each side of valve or fitting.   | 2,031.19               |                      |
| 23 01 20 91-0028  | EA  |     | >10" To 12" Pipe Freezing, First Location<br>Note: Includes freezing on each side of valve or fitting.  | 10,492.60              |                      |
| 23 01 20 91-0029  | EA  |     | >10" To 12" Pipe Freezing, Each Additional Location After First<br>Note: Includes freezing on each side of valve or fitting.  | 2,624.58               |                      |
| <b>23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91)</b>                              |     |     |   |                        |                      |
| Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution". |     |     |   |                        |                      |
| 23 01 20 91-0031  | LF  |     | Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing  | 2.53                   |                      |
|   |     |     | For >250 To 500, Deduct   | -0.19                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -0.48                  |                      |
|   |     |     | For >2000, Deduct   | -0.69                  |                      |
| 23 01 20 91-0032  | LF  |     | >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing   | 3.48                   |                      |
|   |     |     | For >250 To 500, Deduct   | -0.26                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -0.64                  |                      |
|   |     |     | For >2000, Deduct   | -0.93                  |                      |
| 23 01 20 91-0033  | LF  |     | >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing   | 5.36                   |                      |
|   |     |     | For >250 To 500, Deduct   | -0.38                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -0.96                  |                      |
|   |     |     | For >2000, Deduct   | -1.39                  |                      |
| 23 01 20 91-0034  | LF  |     | 4", Water/Chlorine Pipe Disinfection/Flush/Testing  | 7.39                   |                      |
|   |     |     | For >250 To 500, Deduct   | -0.51                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -1.28                  |                      |
|   |     |     | For >2000, Deduct   | -1.85                  |                      |
| 23 01 20 91-0035  | LF  |     | 6", Water/Chlorine Pipe Disinfection/Flush/Testing  | 9.11                   |                      |
|   |     |     | For >250 To 500, Deduct   | -0.61                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -1.53                  |                      |
|   |     |     | For >2000, Deduct   | -2.22                  |                      |
| 23 01 20 91-0036  | LF  |     | 8", Water/Chlorine Pipe Disinfection/Flush/Testing  | 11.52                  |                      |
|   |     |     | For >250 To 500, Deduct   | -0.77                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -1.91                  |                      |
|   |     |     | For >2000, Deduct   | -2.78                  |                      |
| 23 01 20 91-0037  | LF  |     | 10", Water/Chlorine Pipe Disinfection/Flush/Testing   | 15.16                  |                      |
|   |     |     | For >250 To 500, Deduct   | -1.02                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -2.55                  |                      |
|   |     |     | For >2000, Deduct   | -3.70                  |                      |
| 23 01 20 91-0038  | LF  |     | 12", Water/Chlorine Pipe Disinfection/Flush/Testing   | 18.20                  |                      |
|   |     |     | For >250 To 500, Deduct   | -1.22                  |                      |
|   |     |     | For >500 To 2000, Deduct  | -3.06                  |                      |
|   |     |     | For >2000, Deduct   | -4.44                  |                      |
| <b>23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)</b>  |     |     |   |                        |                      |
| 23 01 20 91-0040  | EA  |     | Shut Down Existing Interior Piping System<br>Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one. | 311.73                 |                      |
| <b>23 01 20 91-0041 Purge Liquid Systems (23 01 20 91)</b>  |     |     |   |                        |                      |
| Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.                       |     |     |   |                        |                      |
| 23 01 20 91-0042  | EA  |     | Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System  | 242.02                 |                      |
| 23 01 20 91-0043  | EA  |     | >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System   | 302.53                 |                      |
| 23 01 20 91-0044  | EA  |     | >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System   | 431.81                 |                      |
| 23 01 20 91-0045  | EA  |     | >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System   | 517.44                 |                      |
| 23 01 20 91-0046  | EA  |     | >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System   | 646.80                 |                      |
| 23 01 20 91-0047  | EA  |     | >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System   | 840.84                 |                      |
| 23 01 20 91-0048  | LF  |     | >2,000', Up To 3/4" Diameter Pipe, Purge Liquid System  | 0.42                   |                      |
| 23 01 20 91-0049  | EA  |     | Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System  | 504.00                 |                      |
| 23 01 20 91-0050  | EA  |     | >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System  | 719.82                 |                      |
| 23 01 20 91-0051  | EA  |     | >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System  | 862.49                 |                      |
| 23 01 20 91-0052  | EA  |     | >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System  | 1,078.11               |                      |
| 23 01 20 91-0053  | EA  |     | >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System  | 1,401.55               |                      |
| 23 01 20 91-0054  | LF  |     | >2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System   | 0.70                   |                      |
| 23 01 20 91-0055  | EA  |     | Up To 100', >1-1/2" To 3" Diameter Pipe, Purge Liquid System  | 705.62                 |                      |
| 23 01 20 91-0056  | EA  |     | >100 To 250', >1-1/2" To 3" Diameter Pipe, Purge Liquid System  | 1,007.76               |                      |
| 23 01 20 91-0057  | EA  |     | >250 To 500', >1-1/2" To 3" Diameter Pipe, Purge Liquid System  | 1,207.49               |                      |
| 23 01 20 91-0058  | EA  |     | >500 To 1,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System  | 1,509.36               |                      |
| 23 01 20 91-0059  | EA  |     | >1,000 To 2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System  | 1,962.17               |                      |
| 23 01 20 91-0060  | LF  |     | >2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System   | 0.99                   |                      |
| 23 01 20 91-0061  | EA  |     | Up To 100', >3" To 6" Diameter Pipe, Purge Liquid System  | 970.21                 |                      |
| 23 01 20 91-0062  | EA  |     | >100 To 250', >3" To 6" Diameter Pipe, Purge Liquid System  | 1,385.67               |                      |
| 23 01 20 91-0063  | EA  |     | >250 To 500', >3" To 6" Diameter Pipe, Purge Liquid System  | 1,470.94               |                      |
| 23 01 20 91-0064  | EA  |     | >500 To 1,000', >3" To 6" Diameter Pipe, Purge Liquid System  | 1,838.68               |                      |
| 23 01 20 91-0065  | EA  |     | >1,000 To 2,000', >3" To 6" Diameter Pipe, Purge Liquid System  | 2,390.28               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 01 20 91-0066 LF >2,000', >3" To 6" Diameter Pipe, Purge Liquid System.....                              | 1.20                      |                         |
| 23 01 20 91-0067 EA Up To 100', >6" To 10" Diameter Pipe, Purge Liquid System .....                         | 1,309.79                  |                         |
| 23 01 20 91-0068 EA >100 To 250', >6" To 10" Diameter Pipe, Purge Liquid System .....                       | 1,870.64                  |                         |
| 23 01 20 91-0069 EA >250 To 500', >6" To 10" Diameter Pipe, Purge Liquid System .....                       | 1,985.77                  |                         |
| 23 01 20 91-0070 EA >500 To 1,000', >6" To 10" Diameter Pipe, Purge Liquid System .....                     | 2,482.21                  |                         |
| 23 01 20 91-0071 EA >1,000 To 2,000', >6" To 10" Diameter Pipe, Purge Liquid System .....                   | 3,226.87                  |                         |
| 23 01 20 91-0072 LF >2,000', >6" To 10" Diameter Pipe, Purge Liquid System.....                             | 1.61                      |                         |
| <b>23 01 20 91-0073 Special Cleaning Of Piping Systems (23 01 20 91)</b>                                    |                           |                         |
| <b>23 01 20 91-0074 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0073)</b>      |                           |                         |
| 23 01 20 91-0075 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....              | 3.18                      |                         |
| For >250 To 500, Deduct   | -0.22                     |                         |
| For >500 To 2000, Deduct  | -0.55                     |                         |
| For >2000, Deduct   | -0.79                     |                         |
| 23 01 20 91-0076 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....            | 5.30                      |                         |
| For >250 To 500, Deduct   | -0.35                     |                         |
| For >500 To 2000, Deduct  | -0.88                     |                         |
| For >2000, Deduct   | -1.28                     |                         |
| 23 01 20 91-0077 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....            | 7.43                      |                         |
| For >250 To 500, Deduct   | -0.49                     |                         |
| For >500 To 2000, Deduct  | -1.22                     |                         |
| For >2000, Deduct   | -1.76                     |                         |
| 23 01 20 91-0078 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....            | 9.61                      |                         |
| For >250 To 500, Deduct   | -0.62                     |                         |
| For >500 To 2000, Deduct  | -1.56                     |                         |
| For >2000, Deduct   | -2.26                     |                         |
| 23 01 20 91-0079 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....            | 13.34                     |                         |
| For >250 To 500, Deduct   | -0.88                     |                         |
| For >500 To 2000, Deduct  | -2.19                     |                         |
| For >2000, Deduct   | -3.17                     |                         |
| <b>23 01 20 91-0080 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)</b> |                           |                         |
| 23 01 20 91-0081 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....         | 3.42                      |                         |
| For >250 To 500, Deduct   | -0.22                     |                         |
| For >500 To 2000, Deduct  | -0.55                     |                         |
| For >2000, Deduct   | -0.79                     |                         |
| 23 01 20 91-0082 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....       | 5.60                      |                         |
| For >250 To 500, Deduct   | -0.35                     |                         |
| For >500 To 2000, Deduct  | -0.88                     |                         |
| For >2000, Deduct   | -1.28                     |                         |
| 23 01 20 91-0083 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....       | 7.85                      |                         |
| For >250 To 500, Deduct   | -0.49                     |                         |
| For >500 To 2000, Deduct  | -1.22                     |                         |
| For >2000, Deduct   | -1.76                     |                         |
| 23 01 20 91-0084 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....       | 10.24                     |                         |
| For >250 To 500, Deduct   | -0.62                     |                         |
| For >500 To 2000, Deduct  | -1.56                     |                         |
| For >2000, Deduct   | -2.26                     |                         |
| 23 01 20 91-0085 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....       | 14.18                     |                         |
| For >250 To 500, Deduct   | -0.88                     |                         |
| For >500 To 2000, Deduct  | -2.19                     |                         |
| For >2000, Deduct   | -3.17                     |                         |
| <b>23 01 20 91-0086 Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)</b>            |                           |                         |
| 23 01 20 91-0087 LF Up To 1", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing.....                    | 3.49                      |                         |
| For >250 To 500, Deduct   | -0.22                     |                         |
| For >500 To 2000, Deduct  | -0.55                     |                         |
| For >2000, Deduct   | -0.79                     |                         |
| 23 01 20 91-0088 LF >1" To 2", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....                  | 5.72                      |                         |
| For >250 To 500, Deduct   | -0.35                     |                         |
| For >500 To 2000, Deduct  | -0.88                     |                         |
| For >2000, Deduct   | -1.28                     |                         |
| 23 01 20 91-0089 LF >2" To 3", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....                  | 8.03                      |                         |
| For >250 To 500, Deduct   | -0.49                     |                         |
| For >500 To 2000, Deduct  | -1.22                     |                         |
| For >2000, Deduct   | -1.76                     |                         |
| 23 01 20 91-0090 LF >3" To 4", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....                  | 10.48                     |                         |
| For >250 To 500, Deduct   | -0.62                     |                         |
| For >500 To 2000, Deduct  | -1.56                     |                         |
| For >2000, Deduct   | -2.26                     |                         |
| 23 01 20 91-0091 LF >4" To 6", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....                  | 14.50                     |                         |
| For >250 To 500, Deduct   | -0.88                     |                         |
| For >500 To 2000, Deduct  | -2.19                     |                         |
| For >2000, Deduct   | -3.17                     |                         |
| <b>23 01 20 91-0092 Add-A-Valve Emergency Shut Off Device (23 01 20 91)</b>                                 |                           |                         |
| 23 01 20 91-0093 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD) .....                     | 405.42                    |                         |
| 23 01 20 91-0094 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD) .....                     | 509.78                    |                         |
| 23 01 20 91-0095 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD) .....                       | 703.34                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |          |
|------------------|----|---|----------|
| 23 01 20 91-0096 | EA | 1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD) | 1,069.77 |
| 23 01 20 91-0097 | EA | 1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD) | 1,318.75 |
| 23 01 20 91-0098 | EA | 2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)     | 1,983.17 |

**23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)****23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)****23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment (23 01 30 51)**

|                  |    |  |          |
|------------------|----|--|----------|
| 23 01 30 51-0002 | LF | Up To 2 SF Cross Section, Clean Supply/Return Ductwork   | 4.75     |
|                  |    | Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.  |          |
|                  |    | <i>For Exhaust Ductwork, Add</i>   | 1.19     |
| 23 01 30 51-0003 | LF | >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork  | 5.95     |
|                  |    | Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.  |          |
|                  |    | <i>For Exhaust Ductwork, Add</i>   | 1.49     |
| 23 01 30 51-0004 | LF | >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork  | 7.97     |
|                  |    | Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.  |          |
|                  |    | <i>For Exhaust Ductwork, Add</i>   | 1.99     |
| 23 01 30 51-0005 | LF | >8 SF Cross Section, Clean Supply/Return Ductwork  | 11.29    |
|                  |    | Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.  |          |
|                  |    | <i>For Exhaust Ductwork, Add</i>   | 2.82     |
| 23 01 30 51-0006 | SF | Clean Duct Dampers   | 16.00    |
| 23 01 30 51-0007 | SF | Clean Duct Fire Dampers  | 32.00    |
| 23 01 30 51-0008 | SF | Clean Louver   | 12.80    |
| 23 01 30 51-0009 | EA | Clean Turning Vane Set   | 38.40    |
| 23 01 30 51-0010 | EA | Clean Grille/Diffuser/Register   | 38.40    |
|                  |    | Note: Includes removal and reinstallation.   |          |
| 23 01 30 51-0011 | LF | Clean Linear Diffuser  | 9.60     |
|                  |    | Note: Includes removal and reinstallation.   |          |
| 23 01 30 51-0012 | EA | Cut Access For Cleaning Duct And Install Duct Insulated Access Doors   | 127.29   |
|                  |    | <i>For Stainless Steel, Add</i>  | 82.00    |
| 23 01 30 51-0013 | EA | Clean Variable Air Volume (VAV) Unit   | 115.20   |
| 23 01 30 51-0014 | EA | Clean Fan Powered Induction Unit (PIU) Unit  | 153.58   |
| 23 01 30 51-0015 | EA | Clean Fan Coil Unit (FCU)  | 153.58   |
| 23 01 30 51-0016 | EA | Clean Packaged Terminal Air Conditioning Unit  | 153.58   |
| 23 01 30 51-0017 | EA | Clean Supply Or Return Fan   | 307.18   |
| 23 01 30 51-0018 | EA | Clean Exhaust Fan  | 268.78   |
| 23 01 30 51-0019 | EA | Clean Duct Coil  | 230.38   |
| 23 01 30 51-0020 | SF | Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum  | 7.68     |
|                  |    | Note: Excluding fan and coils.   |          |
| 23 01 30 51-0021 | EA | Clean Air Handling Unit Fan  | 307.18   |
| 23 01 30 51-0022 | EA | Clean Air Handling Unit Coil   | 460.76   |
| 23 01 30 51-0023 | SF | Clean Equipment Surfaces, Rust Reform And Prime  | 3.99     |
| 23 01 30 51-0024 | SF | Clean Interior Equipment Surfaces, Rust Reform And Prime   | 4.75     |
| 23 01 30 51-0025 | SF | High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms   | 0.66     |
| 23 01 30 51-0026 | EA | Cleaning Of Ductwork Minimum Set-up Charge   | 1,033.12 |
|                  |    | Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section. |          |
| 23 01 30 51-0027 | SF | Apply Anti-microbial Agent To Ductwork And Surfaces After Cleaning   | 0.67     |

**23 01 30 61 HVAC Air-Distribution Duct Repair (23 01 30)****23 01 30 61-0001 Repair And Seal Ductwork (23 01 30 61)**

Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.

|                  |    |                                     |      |
|------------------|----|-------------------------------------|------|
| 23 01 30 61-0002 | SF | Repair And Sealing Of Ductwork      | 2.68 |
|                  |    | Note: Clean, apply sealant and tape |      |

**23 01 30 61-0003 Rework Sheet Metal Ductwork (23 01 30 61)**

Note: Includes removal of existing ductwork and reinstallation of ductwork. Excludes new ductwork.

|                  |    |  |        |
|------------------|----|--|--------|
| 23 01 30 61-0004 | LF | Up To 1 SF Cross Section, Rework Existing Ductwork   | 37.57  |
| 23 01 30 61-0005 | LF | >1 To 2 SF Cross Section, Rework Existing Ductwork   | 73.25  |
| 23 01 30 61-0006 | LF | >2 To 4 SF Cross Section, Rework Existing Ductwork   | 96.80  |
| 23 01 30 61-0007 | LF | >4 To 6 SF Cross Section, Rework Existing Ductwork   | 121.22 |
| 23 01 30 61-0008 | LF | >6 To 8 SF Cross Section, Rework Existing Ductwork   | 169.05 |
| 23 01 30 61-0009 | LF | >8 To 10 SF Cross Section, Rework Existing Ductwork  | 197.23 |
| 23 01 30 61-0010 | LF | >10 To 12 SF Cross Section, Rework Existing Ductwork | 225.40 |
| 23 01 30 61-0011 | LF | >12 To 14 SF Cross Section, Rework Existing Ductwork | 253.58 |

**23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)****23 01 50 61 Central Heating Equipment Repair (23 01 50)****23 01 50 61-0001 Boiler Repairs (23 01 50 61)****23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 01 50 61-0003 EA Set-up Charge For Boiler Fire Side Maintenance .....<br>Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.  | 3,116.11                  |                         |
| 23 01 50 61-0004 EA Close-up Charge For Boiler Fire Side Maintenance .....<br>Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.  | 3,351.48                  |                         |
| <i>For Burner Seals, Add</i>   | 711.61                    |                         |
| <i>Note: Used when burner must be removed from door for maintenance.</i>   |                           |                         |
| 23 01 50 61-0005 EA Setup Charge For Boiler Water Side Maintenance .....<br>Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.  | 4,154.82                  |                         |
| 23 01 50 61-0006 EA Up To 100 HP, Hydrostatic Test - Boiler Maintenance .....<br>Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test. | 2,077.41                  |                         |
| 23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance .....<br>Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.      | 4,154.82                  |                         |
| 23 01 50 61-0008 EA Removal And Replacement Of Handhole .....  | 129.84                    |                         |
| 23 01 50 61-0009 EA Removal And Replacement Of Manhole.....  | 389.52                    |                         |
| 23 01 50 61-0010 SF Sheet Metal Jacket Patch .....   | 14.60                     |                         |
| <br><b>23 01 50 61-0011 Boiler Tube Replacement</b> <small>(23 01 50 61-0001)</small>  |                           |                         |
| 23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube .....  | 311.61                    |                         |
| 23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....  | 389.53                    |                         |
| 23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube.....  | 545.31                    |                         |
| 23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination .....<br>Note: Includes black steel tube, fasteners and accessories.  | 19.22                     |                         |
| 23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination .....<br>Note: Includes black steel tube, fasteners and accessories.  | 22.61                     |                         |
| 23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination .....<br>Note: Includes black steel tube, fasteners and accessories.  | 26.05                     |                         |
| 23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination .....<br>Note: Includes black steel tube, fasteners and accessories.  | 39.02                     |                         |
| 23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination .....<br>Note: Includes black steel tube, fasteners and accessories.  | 46.19                     |                         |
| 23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination .....<br>Note: Includes black steel tube, fasteners and accessories.  | 60.26                     |                         |
| 23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....  | 38.95                     |                         |
| 23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....  | 58.43                     |                         |
| 23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....  | 77.90                     |                         |
| 23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....  | 97.38                     |                         |
| 23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....  | 116.86                    |                         |
| 23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....  | 136.33                    |                         |
| 23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....  | 116.86                    |                         |
| 23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....  | 155.81                    |                         |
| 23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....  | 194.76                    |                         |
| 23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....  | 233.71                    |                         |
| 23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....  | 272.66                    |                         |
| 23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....  | 311.61                    |                         |
| 23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....   | 411.07                    |                         |
| <br><b>23 01 50 61-0034 Cast Iron Boiler Section Replacement</b> <small>(23 01 50 61-0001)</small>   |                           |                         |
| 23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler.....   | 3,184.29                  |                         |
| 23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler.....  | 2,115.67                  |                         |
| 23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler.....  | 2,807.35                  |                         |
| 23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler.....   | 5,724.75                  |                         |
| 23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler.....  | 4,078.45                  |                         |
| 23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler.....  | 5,003.78                  |                         |
| 23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler.....   | 9,111.24                  |                         |
| 23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler.....  | 6,866.15                  |                         |
| 23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler.....  | 7,741.40                  |                         |
| <br><b>23 01 50 61-0044 Cast Iron Grate Replacement</b> <small>(23 01 50 61-0001)</small>  |                           |                         |
| 23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold.....<br>Note: Includes support, linkages and removal of existing.   | 157.31                    |                         |
| 23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold.....<br>Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.  | 2,153.31                  |                         |
| <br><b>23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners</b> <small>(23 01 50 61-0001)</small>  |                           |                         |
| <i>Note: Includes mounting plate, mechanical and electrical labor for installation of burners.</i>   |                           |                         |
| 23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed.....   | 11,196.02                 | 1,502.98                |
| 23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....   | 16,059.76                 | 1,860.80                |
| 23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed.....   | 18,986.94                 | 2,254.32                |
| 23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....   | 22,324.24                 | 2,425.59                |
| <br><b>23 01 50 61-0052 Boiler And Chiller Water Treatment</b> <small>(23 01 50 61)</small>  |                           |                         |
| <i>Note: 3 LB chemical per 50 gallon system water.</i>   |                           |                         |
| 23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda.....<br>Note: Includes disposal after treatment.  | 1.68                      |                         |

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 01 Operation and Maintenance of HVAC Systems

23 01 50 Operation and Maintenance of Central Heating Equipment



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                  |     |  |  |        |  |
|------------------|-----|--|--|--------|--|
| 23 01 50 61-0054 | LB  |  | Boil Out Boiler And System With Trisodium Phosphate.....                           | 2.52   |  |
|                  |     |  | Note: Includes disposal after treatment.   |        |  |
| 23 01 50 61-0055 | GAL |  | Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required..... | 157.57 |  |

23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)

23 01 60 61 Central Cooling Equipment Repair (23 01 60)

23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)

|                  |    |  |  |          |  |
|------------------|----|--|--|----------|--|
| 23 01 60 61-0002 | EA |  | Replace 6' Diameter 4 Blade, Cooling Tower Fan Blade.....            | 3,548.79 |  |
| 23 01 60 61-0003 | EA |  | Replace 6' Diameter 5 Blade, Cooling Tower Fan Blade.....            | 4,174.72 |  |
| 23 01 60 61-0004 | EA |  | Replace 6' Diameter 6 Blade, Cooling Tower Fan Blade.....            | 4,796.07 |  |
| 23 01 60 61-0005 | EA |  | Replace 6' Diameter 7 Blade, Cooling Tower Fan Blade.....            | 5,657.31 |  |
| 23 01 60 61-0006 | EA |  | Replace 6' Diameter 8 Blade, Cooling Tower Fan Blade.....            | 6,230.69 |  |
| 23 01 60 61-0007 | EA |  | Replace 8' Diameter 4 Blade, Cooling Tower Fan Blade.....            | 3,925.43 |  |
| 23 01 60 61-0008 | EA |  | Replace 8' Diameter 5 Blade, Cooling Tower Fan Blade.....            | 4,364.02 |  |
| 23 01 60 61-0009 | EA |  | Replace 8' Diameter 6 Blade, Cooling Tower Fan Blade.....            | 5,117.87 |  |
| 23 01 60 61-0010 | EA |  | Replace 8' Diameter 7 Blade, Cooling Tower Fan Blade.....            | 5,826.04 |  |
| 23 01 60 61-0011 | EA |  | Replace 8' Diameter 8 Blade, Cooling Tower Fan Blade.....            | 6,413.15 |  |
| 23 01 60 61-0012 | EA |  | Replace Individual Cooling Tower Fan Blade For 6' Diameter Fan.....  | 972.85   |  |
| 23 01 60 61-0013 | EA |  | Replace Individual Cooling Tower Fan Blade For 8' Diameter Fan.....  | 1,012.08 |  |
| 23 01 60 61-0014 | EA |  | Replace Individual Cooling Tower Fan Blade For 10' Diameter Fan..... | 1,083.31 |  |
| 23 01 60 61-0015 | EA |  | Replace Individual Cooling Tower Fan Blade For 12' Diameter Fan..... | 1,261.90 |  |
| 23 01 60 61-0016 | EA |  | Replace Individual Cooling Tower Fan Blade For 14' Diameter Fan..... | 1,561.55 |  |
| 23 01 60 61-0017 | EA |  | Replace Individual Cooling Tower Fan Blade For 16' Diameter Fan..... | 2,105.63 |  |
| 23 01 60 61-0018 | EA |  | Replace Individual Cooling Tower Fan Blade For 18' Diameter Fan..... | 2,215.68 |  |
| 23 01 60 61-0019 | EA |  | Replace Individual Cooling Tower Fan Blade For 20' Diameter Fan..... | 2,380.77 |  |
| 23 01 60 61-0020 | EA |  | Replace Counterflow Nozzle (1/2" - 2" NPT Thread).....               | 49.13    |  |
| 23 01 60 61-0021 | EA |  | Replace 6' Polyvinyl Chloride (PVC) Splash Fill.....                 | 31.05    |  |

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)

23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)

|                  |    |  |  |       |  |
|------------------|----|--|--|-------|--|
| 23 01 60 71-0002 | LB |  | Recovery Of Refrigerant.....   | 16.19 |  |
| 23 01 60 71-0003 | LB |  | Recovery And Recharging Of Refrigerant.....  | 30.38 |  |
|                  |    |  | Note: Includes cleaning refrigerant gas prior to recharging.                           |       |  |
| 23 01 60 71-0004 | LB |  | Recharging Of Refrigerant.....   | 13.64 |  |
|                  |    |  | Note: Excludes refrigerant filling at time of installation of HVAC or Condenser units. |       |  |

23 05 Common Work Results for HVAC (23)

23 05 13 Common Motor Requirements for HVAC Equipment (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001 Premium Efficient, Motors (23 05 13)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

|                  |    |  |   |          |  |
|------------------|----|--|---|----------|--|
| 23 05 13 00-0004 | EA |  | 1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....       | 696.02   |  |
| 23 05 13 00-0005 | EA |  | 1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 788.12   |  |
| 23 05 13 00-0006 | EA |  | 1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 924.00   |  |
| 23 05 13 00-0007 | EA |  | 1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor..... | 776.04   |  |
| 23 05 13 00-0008 | EA |  | 1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor..... | 824.35   |  |
| 23 05 13 00-0009 | EA |  | 1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor..... | 1,081.02 |  |
| 23 05 13 00-0010 | EA |  | 2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 911.92   |  |
| 23 05 13 00-0011 | EA |  | 2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 883.23   |  |
| 23 05 13 00-0012 | EA |  | 2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 1,105.17 |  |
| 23 05 13 00-0013 | EA |  | 3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 924.00   |  |
| 23 05 13 00-0014 | EA |  | 3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 952.68   |  |
| 23 05 13 00-0015 | EA |  | 3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 1,407.13 |  |
| 23 05 13 00-0016 | EA |  | 5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 1,008.55 |  |
| 23 05 13 00-0017 | EA |  | 5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 1,043.27 |  |
| 23 05 13 00-0018 | EA |  | 5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....     | 1,843.47 |  |
| 23 05 13 00-0019 | EA |  | 7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor..... | 1,600.39 |  |
| 23 05 13 00-0020 | EA |  | 7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor..... | 1,533.96 |  |
| 23 05 13 00-0021 | EA |  | 7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor..... | 2,210.35 |  |
| 23 05 13 00-0022 | EA |  | 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 1,829.88 |  |
| 23 05 13 00-0023 | EA |  | 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 1,857.05 |  |
| 23 05 13 00-0024 | EA |  | 10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 2,876.17 |  |
| 23 05 13 00-0025 | EA |  | 15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 2,599.88 |  |
| 23 05 13 00-0026 | EA |  | 15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 2,630.07 |  |
| 23 05 13 00-0027 | EA |  | 15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 3,878.68 |  |
| 23 05 13 00-0028 | EA |  | 20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 3,054.33 |  |
| 23 05 13 00-0029 | EA |  | 20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 3,301.93 |  |
| 23 05 13 00-0030 | EA |  | 20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....    | 4,721.14 |  |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include various motor specifications like '25 HP, 3,600 RPM, 284TS NEMA Steel Frame...' and 'Cast Iron Frame, Premium Efficient, Open Drip Proof Motors'.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |    |   |           |  |
|------------------|----|---|-----------|--|
| 23 05 13 00-0104 | EA | 15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 4,934.03  |  |
| 23 05 13 00-0105 | EA | 20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 3,516.32  |  |
| 23 05 13 00-0106 | EA | 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 3,555.58  |  |
| 23 05 13 00-0107 | EA | 20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 6,569.14  |  |
| 23 05 13 00-0108 | EA | 25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 4,588.28  |  |
| 23 05 13 00-0109 | EA | 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 4,650.18  |  |
| 23 05 13 00-0110 | EA | 25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 7,432.75  |  |
| 23 05 13 00-0111 | EA | 30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 5,451.89  |  |
| 23 05 13 00-0112 | EA | 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 5,516.81  |  |
| 23 05 13 00-0113 | EA | 30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 8,586.23  |  |
| 23 05 13 00-0114 | EA | 40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 7,473.51  |  |
| 23 05 13 00-0115 | EA | 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 7,213.82  |  |
| 23 05 13 00-0116 | EA | 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 10,699.95 |  |
| 23 05 13 00-0117 | EA | 50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 8,175.57  |  |
| 23 05 13 00-0118 | EA | 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 7,884.18  |  |
| 23 05 13 00-0119 | EA | 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 12,929.93 |  |
| 23 05 13 00-0120 | EA | 60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 11,485.05 |  |
| 23 05 13 00-0121 | EA | 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 11,344.64 |  |
| 23 05 13 00-0122 | EA | 60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 15,694.37 |  |
| 23 05 13 00-0123 | EA | 75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 13,361.73 |  |
| 23 05 13 00-0124 | EA | 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 13,265.10 |  |
| 23 05 13 00-0125 | EA | 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor  | 18,276.13 |  |
| 23 05 13 00-0126 | EA | 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 16,473.43 |  |
| 23 05 13 00-0127 | EA | 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 20,394.38 |  |
| 23 05 13 00-0128 | EA | 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 23,459.27 |  |
| 23 05 13 00-0129 | EA | 200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor | 29,483.37 |  |

**23 05 13 00-0130****Premium Efficient, Severe Duty Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

|                  |    |   |           |  |
|------------------|----|---|-----------|--|
| 23 05 13 00-0131 | EA | 1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,206.33  |  |
| 23 05 13 00-0132 | EA | 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,325.60  |  |
| 23 05 13 00-0133 | EA | 1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,464.51  |  |
| 23 05 13 00-0134 | EA | 1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor       | 2,057.86  |  |
| 23 05 13 00-0135 | EA | 1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor  | 1,372.41  |  |
| 23 05 13 00-0136 | EA | 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor  | 1,351.27  |  |
| 23 05 13 00-0137 | EA | 1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor  | 1,713.62  |  |
| 23 05 13 00-0138 | EA | 1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor   | 2,560.62  |  |
| 23 05 13 00-0139 | EA | 2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,435.82  |  |
| 23 05 13 00-0140 | EA | 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,410.15  |  |
| 23 05 13 00-0141 | EA | 2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 1,736.27  |  |
| 23 05 13 00-0142 | EA | 2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor       | 3,229.46  |  |
| 23 05 13 00-0143 | EA | 3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,698.52  |  |
| 23 05 13 00-0144 | EA | 3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 1,784.58  |  |
| 23 05 13 00-0145 | EA | 3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 2,506.27  |  |
| 23 05 13 00-0146 | EA | 3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor       | 3,502.74  |  |
| 23 05 13 00-0147 | EA | 5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor      | 2,089.56  |  |
| 23 05 13 00-0148 | EA | 5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 1,816.29  |  |
| 23 05 13 00-0149 | EA | 5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 2,539.48  |  |
| 23 05 13 00-0150 | EA | 5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor        | 5,575.69  |  |
| 23 05 13 00-0151 | EA | 7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor  | 2,726.70  |  |
| 23 05 13 00-0152 | EA | 7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor | 2,287.35  |  |
| 23 05 13 00-0153 | EA | 7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor  | 3,634.09  |  |
| 23 05 13 00-0154 | EA | 7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 6,375.89  |  |
| 23 05 13 00-0155 | EA | 10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 2,903.35  |  |
| 23 05 13 00-0156 | EA | 10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 2,738.78  |  |
| 23 05 13 00-0157 | EA | 10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 4,721.14  |  |
| 23 05 13 00-0158 | EA | 10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor       | 7,437.27  |  |
| 23 05 13 00-0159 | EA | 15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 3,714.11  |  |
| 23 05 13 00-0160 | EA | 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 3,489.15  |  |
| 23 05 13 00-0161 | EA | 15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 5,412.63  |  |
| 23 05 13 00-0162 | EA | 15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor       | 9,928.44  |  |
| 23 05 13 00-0163 | EA | 20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 4,333.13  |  |
| 23 05 13 00-0164 | EA | 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 3,742.79  |  |
| 23 05 13 00-0165 | EA | 20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 7,354.24  |  |
| 23 05 13 00-0166 | EA | 20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor       | 11,318.97 |  |
| 23 05 13 00-0167 | EA | 25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 5,207.30  |  |
| 23 05 13 00-0168 | EA | 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 4,897.79  |  |
| 23 05 13 00-0169 | EA | 25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 7,684.88  |  |
| 23 05 13 00-0170 | EA | 30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 6,348.71  |  |
| 23 05 13 00-0171 | EA | 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 5,815.75  |  |
| 23 05 13 00-0172 | EA | 30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 9,907.31  |  |
| 23 05 13 00-0173 | EA | 40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 8,722.11  |  |
| 23 05 13 00-0174 | EA | 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 7,609.39  |  |
| 23 05 13 00-0175 | EA | 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 12,348.65 |  |
| 23 05 13 00-0176 | EA | 50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 9,140.33  |  |
| 23 05 13 00-0177 | EA | 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 8,931.98  |  |
| 23 05 13 00-0178 | EA | 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 13,153.38 |  |
| 23 05 13 00-0179 | EA | 60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor    | 13,265.10 |  |
| 23 05 13 00-0180 | EA | 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 11,971.20 |  |
| 23 05 13 00-0181 | EA | 60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor     | 17,966.62 |  |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Lists various motor specifications and their costs.

23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

Table listing explosion proof motor specifications (e.g., 1 HP, 1,800 RPM, 143T NEMA) and their associated costs.

23 05 13 00-0216 Motor Mounting (23 05 13)

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

Table listing motor mounting specifications (e.g., 1/2 HP Motor Mounting) and their associated costs.

23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)

23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)

Note: Includes internal sleeves and external covers.

23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

Table listing threaded expansion joint specifications (e.g., 1/2" Threaded, 150 LB) and their associated costs.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 16 Expansion Fittings and Loops for HVAC Piping**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints** (23 05 16 00-0001)  
 Note: Carbon steel ends. Includes internal sleeves and external covers.

|  |          |          |
|--|----------|----------|
| 23 05 16 00-0010 EA 1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint | 557.46   | 123.41   |
| <i>For 300 LB Rating, Add</i>  | 101.04   |          |
| 23 05 16 00-0011 EA 1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint | 616.16   | 148.09   |
| <i>For 300 LB Rating, Add</i>  | 107.65   |          |
| 23 05 16 00-0012 EA 2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 665.73   | 188.01   |
| <i>For 300 LB Rating, Add</i>  | 107.67   |          |
| 23 05 16 00-0013 EA 2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint | 719.01   | 204.51   |
| <i>For 300 LB Rating, Add</i>  | 115.64   |          |
| 23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 799.94   | 239.77   |
| <i>For 300 LB Rating, Add</i>  | 124.96   |          |
| 23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,042.88 | 401.96   |
| <i>For 300 LB Rating, Add</i>  | 134.79   |          |
| 23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,352.67 | 439.69   |
| <i>For 300 LB Rating, Add</i>  | 200.98   |          |
| 23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,301.36 | 488.55   |
| <i>For 300 LB Rating, Add</i>  | 172.12   |          |
| 23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,667.87 | 624.26   |
| <i>For 300 LB Rating, Add</i>  | 223.10   |          |
| 23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 2,104.32 | 759.97   |
| <i>For 300 LB Rating, Add</i>  | 288.59   |          |
| 23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 2,718.62 | 575.68   |
| <i>For 300 LB Rating, Add</i>  | 391.44   |          |
| 23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 3,408.96 | 1,085.67 |
| <i>For 300 LB Rating, Add</i>  | 512.97   |          |
| 23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 4,282.07 | 1,194.23 |
| <i>For 300 LB Rating, Add</i>  | 697.32   |          |

**23 05 16 00-0023 Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints** (23 05 16 00-0001)  
 Note: Carbon steel ends. Includes internal sleeves and external covers.

|  |          |          |
|--|----------|----------|
| 23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint | 663.01   | 169.25   |
| <i>For 300 LB Rating, Add</i>  | 81.16    |          |
| 23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint | 687.17   | 170.66   |
| <i>For 300 LB Rating, Add</i>  | 86.46    |          |
| 23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 698.85   | 176.30   |
| <i>For 300 LB Rating, Add</i>  | 86.48    |          |
| 23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint | 756.46   | 192.23   |
| <i>For 300 LB Rating, Add</i>  | 92.88    |          |
| 23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 854.93   | 226.09   |
| <i>For 300 LB Rating, Add</i>  | 100.58   |          |
| 23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,332.55 | 450.20   |
| <i>For 300 LB Rating, Add</i>  | 108.27   |          |
| 23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,562.63 | 459.64   |
| <i>For 300 LB Rating, Add</i>  | 161.42   |          |
| 23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,570.07 | 508.90   |
| <i>For 300 LB Rating, Add</i>  | 138.25   |          |
| 23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint     | 1,878.08 | 581.51   |
| <i>For 300 LB Rating, Add</i>  | 179.19   |          |
| 23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 2,349.27 | 712.47   |
| <i>For 300 LB Rating, Add</i>  | 231.79   |          |
| 23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 2,984.80 | 863.65   |
| <i>For 300 LB Rating, Add</i>  | 314.40   |          |
| 23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 3,471.05 | 879.39   |
| <i>For 300 LB Rating, Add</i>  | 427.97   |          |
| 23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint    | 4,526.05 | 1,099.23 |
| <i>For 300 LB Rating, Add</i>  | 581.77   |          |

**23 05 17 Sleeves and Sleeve Seals for HVAC Piping** (23 05)

**23 05 17 00-0001 Wall Seals And Sleeves** (23 05 17)  
 Note: Up to 12" walls. Excludes drilling hole.

**23 05 17 00-0002 Ductile Iron Wall Sleeve** (23 05 17 00-0001)  
 Note: Includes rubber gasket seal.

|  |        |        |
|--|--------|--------|
| 23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal  | 157.19 | 67.10  |
| 23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal  | 191.54 | 78.38  |
| 23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal  | 233.21 | 94.03  |
| 23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal  | 335.19 | 140.98 |
| 23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal | 434.66 | 187.93 |
| 23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal | 537.60 | 235.01 |

**23 05 17 00-0009 Steel Pipe Sleeves** (23 05 17 00-0001)  
 Note: Includes link seals 12" length.

|  |        |        |
|--|--------|--------|
| 23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals     | 185.88 | 67.91  |
| 23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals | 228.71 | 73.62  |
| 23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals     | 269.22 | 79.33  |
| 23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals     | 334.33 | 95.17  |
| 23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals     | 484.29 | 118.86 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals.....                     | 1,123.06                  | 142.68                  |
| 23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals..... | 1,360.60                  | 178.36                  |
| 23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals..... | 1,859.71                  | 219.45                  |
| 23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals..... | 2,631.29                  | 285.37                  |
| 23 05 17 00-0019 EA 29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals..... | 2,578.74                  | 356.71                  |

**23 05 19 Meters and Gages for HVAC Piping** (23 05)

See CSI section 33 19 00 00-0000 for water utility service metering.

|  |        |       |
|--|--------|-------|
| <b>23 05 19 00-0001 Thermometers</b> <small>(23 05 19)</small>   |        |       |
| <b>23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers</b><br><small>(23 05 19 00-0001)</small><br>Note: Various ranges.                   |        |       |
| 23 05 19 00-0003 EA 2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....  | 134.13 | 49.02 |
| 23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....  | 152.49 | 49.02 |
| 23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....  | 152.49 | 49.02 |
| <b>23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers</b> <small>(23 05 19 00-0001)</small><br>Note: Various ranges.                                   |        |       |
| 23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer.....  | 170.85 | 49.02 |
| 23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer.....  | 170.85 | 49.02 |
| 23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer.....   | 209.25 | 49.02 |
| 23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer.....   | 175.86 | 49.02 |
| 23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer.....   | 184.21 | 49.02 |
| 23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer.....  | 214.26 | 49.02 |
| <b>23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers</b> <small>(23 05 19 00-0001)</small><br>Note: Various ranges. Socket connection for thermowell. |        |       |
| 23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....  | 170.85 | 49.02 |
| 23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....  | 170.85 | 49.02 |
| 23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....   | 209.25 | 49.02 |
| 23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....   | 192.56 | 49.02 |
| 23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....   | 209.25 | 49.02 |
| 23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....  | 213.51 | 49.02 |
| <b>23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells</b> <small>(23 05 19 00-0001)</small>  |        |       |
| 23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell.....   | 227.30 | 91.90 |
| 23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell.....   | 227.21 | 91.90 |
| <b>23 05 19 00-0023 Pressure Gauges</b> <small>(23 05 19)</small>  |        |       |
| <b>23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>   |        |       |
| 23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....   | 48.97  | 19.14 |
| 23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....   | 58.82  | 19.14 |
| <b>23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>  |        |       |
| 23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....  | 313.76 | 19.14 |
| 23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....  | 313.76 | 19.14 |
| 23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....  | 407.32 | 19.14 |
| 23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....  | 958.26 | 19.14 |
| <b>23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small><br>Note: Liquid filled.                                       |        |       |
| 23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....   | 154.94 | 19.14 |
| 23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....   | 341.47 | 19.14 |
| <b>23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>  |        |       |
| 23 05 19 00-0036 EA 4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge.....  | 337.12 | 19.14 |
| 23 05 19 00-0037 EA 6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge.....  | 337.12 | 19.14 |
| 23 05 19 00-0038 EA 8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge.....  | 337.12 | 19.14 |
| <b>23 05 19 00-0039 Gauge Accessories</b> <small>(23 05 19 00-0023)</small>  |        |       |
| 23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....  | 102.67 | 15.31 |
| 23 05 19 00-0041 EA 1/4" Snubber Valve.....  | 67.19  | 15.31 |
| 23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock.....   | 42.96  | 22.98 |
| 23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock.....   | 38.02  | 22.98 |
| 23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon.....  | 55.01  | 22.98 |
| 23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple.....   | 10.62  | 7.66  |
| 23 05 19 00-0046 EA 1/4" Steel Thread-O-Let.....   | 84.83  | 38.29 |
| 23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union.....   | 121.00 | 15.31 |
| 23 05 19 00-0048 EA 1/4" Black Steel Coupling.....   | 33.98  | 15.31 |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug .....  | 19.15                     | 9.19                    |
| 23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap .....   | 20.26                     | 9.19                    |
| 23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe .....  | 12.77                     | 5.06                    |
| 23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe .....   | 12.78                     | 5.06                    |
| 23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe .....   | 11.30                     |                         |
| 23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve .....   | 124.48                    |                         |
| <b>23 05 19 00-0055 Valve Lock Covers (23 05 19)</b>  |                           |                         |
| 23 05 19 00-0056 EA Valve Lock Cover .....  | 96.83                     | 23.44                   |
| <b>23 05 19 00-0057 Venturi Flowmeters (23 05 19)</b>   |                           |                         |
| <b>23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)</b>  |                           |                         |
| 23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter .....   | 335.41                    | 104.16                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| 23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter .....   | 373.35                    | 125.00                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| 23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter .....   | 412.06                    | 138.93                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| 23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter .....   | 464.35                    | 156.24                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| 23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter .....   | 550.63                    | 178.61                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| 23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter .....   | 725.49                    | 221.17                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| <b>23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)</b>  |                           |                         |
| 23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter .....   | 2,574.48                  | 214.03                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 751.25                    |                         |
| 23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter .....   | 3,590.21                  | 256.83                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 1,076.79                  |                         |
| 23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter .....   | 4,720.29                  | 321.04                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 1,427.37                  |                         |
| 23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter .....   | 5,578.24                  | 428.05                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 1,652.75                  |                         |
| 23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter .....   | 8,253.62                  | 513.66                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 2,529.21                  |                         |
| 23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter .....  | 13,661.88                 | 642.08                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 4,332.21                  |                         |
| 23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter .....  | 20,384.76                 | 819.65                  |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 6,560.91                  |                         |
| 23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter .....  | 28,502.28                 | 1,229.47                |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 9,115.16                  |                         |
| 23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter .....  | 43,156.55                 | 1,366.08                |
| For Portable Venturi Flow Meter, Add  | 995.00                    |                         |
| For Flanged Ends, Add   | 14,148.53                 |                         |
| <b>23 05 19 00-0075 Turbine Flowmeter (23 05 19)</b>  |                           |                         |
| 23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter .....  | 1,852.27                  | 114.88                  |
| <b>23 05 19 00-0077 Sight Flow Indicator (23 05 19)</b>   |                           |                         |
| <b>23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)</b>       |                           |                         |
| 23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....   | 182.15                    | 22.30                   |
| 23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....   | 190.32                    | 23.47                   |
| 23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....   | 205.61                    | 24.66                   |
| 23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....   | 232.11                    | 33.23                   |
| 23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....     | 277.61                    | 40.27                   |
| 23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) ..... | 316.59                    | 50.99                   |
| 23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) ..... | 444.20                    | 58.96                   |
| 23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....     | 493.60                    | 69.67                   |



|                  | MINOR<br>CSI UOM DESCRIPTION |  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|------------------------------|--|---------------------------|-------------------------|
| 23 05 19 00-0087 |                              | <b>Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small>          |                           |                         |
| 23 05 19 00-0088 | EA                           | 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                        | 234.61                    | 22.30                   |
| 23 05 19 00-0089 | EA                           | 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                        | 241.61                    | 23.47                   |
| 23 05 19 00-0090 | EA                           | 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                        | 260.40                    | 24.66                   |
| 23 05 19 00-0091 | EA                           | 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                        | 278.74                    | 33.23                   |
| 23 05 19 00-0092 | EA                           | 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                          | 297.43                    | 40.27                   |
| 23 05 19 00-0093 | EA                           | 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                      | 324.75                    | 50.99                   |
| 23 05 19 00-0094 | EA                           | 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                      | 602.74                    | 58.96                   |
| 23 05 19 00-0095 | EA                           | 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....                          | 647.48                    | 69.67                   |
| 23 05 19 00-0096 |                              | <b>Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small> |                           |                         |
| 23 05 19 00-0097 | EA                           | 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....             | 336.03                    | 22.30                   |
| 23 05 19 00-0098 | EA                           | 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....             | 354.69                    | 23.47                   |
| 23 05 19 00-0099 | EA                           | 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....             | 385.14                    | 24.66                   |
| 23 05 19 00-0100 | EA                           | 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....             | 420.96                    | 33.23                   |
| 23 05 19 00-0101 | EA                           | 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....               | 483.95                    | 40.27                   |
| 23 05 19 00-0102 | EA                           | 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....           | 514.77                    | 50.99                   |
| 23 05 19 00-0103 | EA                           | 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....           | 1,022.41                  | 58.96                   |
| 23 05 19 00-0104 | EA                           | 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....               | 1,078.80                  | 69.67                   |
| 23 05 19 00-0105 |                              | <b>Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>  |                           |                         |
| 23 05 19 00-0106 | EA                           | 1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 231.11                    | 22.30                   |
| 23 05 19 00-0107 | EA                           | 3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 240.44                    | 23.47                   |
| 23 05 19 00-0108 | EA                           | 1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 254.57                    | 24.66                   |
| 23 05 19 00-0109 | EA                           | 3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 277.57                    | 33.23                   |
| 23 05 19 00-0110 | EA                           | 1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 296.26                    | 40.27                   |
| 23 05 19 00-0111 | EA                           | 1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 324.75                    | 50.99                   |
| 23 05 19 00-0112 | EA                           | 1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 595.75                    | 58.96                   |
| 23 05 19 00-0113 | EA                           | 2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....   | 638.15                    | 69.67                   |
| 23 05 19 00-0114 |                              | <b>Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>   |                           |                         |
| 23 05 19 00-0115 | EA                           | 1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 333.70                    | 22.30                   |
| 23 05 19 00-0116 | EA                           | 3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 359.35                    | 23.47                   |
| 23 05 19 00-0117 | EA                           | 1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 392.13                    | 24.66                   |
| 23 05 19 00-0118 | EA                           | 3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 420.96                    | 33.23                   |
| 23 05 19 00-0119 | EA                           | 1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 483.95                    | 40.27                   |
| 23 05 19 00-0120 | EA                           | 1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 519.43                    | 50.99                   |
| 23 05 19 00-0121 | EA                           | 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 1,022.41                  | 58.96                   |
| 23 05 19 00-0122 | EA                           | 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....  | 1,078.80                  | 69.67                   |
| 23 05 19 00-0123 |                              | <b>Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>   |                           |                         |
| 23 05 19 00-0124 | EA                           | 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....  | 493.28                    | 40.27                   |
| 23 05 19 00-0125 | EA                           | 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....  | 556.73                    | 50.99                   |
| 23 05 19 00-0126 | EA                           | 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....  | 633.05                    | 58.96                   |
| 23 05 19 00-0127 | EA                           | 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....  | 712.76                    | 69.67                   |
| 23 05 19 00-0128 |                              | <b>Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>   |                           |                         |
| 23 05 19 00-0129 | EA                           | 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....   | 1,090.36                  | 160.79                  |
| 23 05 19 00-0130 | EA                           | 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....   | 1,223.38                  | 204.13                  |
| 23 05 19 00-0131 | EA                           | 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....   | 1,788.04                  | 239.67                  |
| 23 05 19 00-0132 | EA                           | 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....   | 2,707.35                  | 401.80                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....                         | 4,299.78                  | 449.69                  |
| <b>23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>          |                           |                         |
| 23 05 19 00-0135 EA 1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....                        | 834.59                    | 114.85                  |
| 23 05 19 00-0136 EA 1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....                    | 984.80                    | 133.99                  |
| 23 05 19 00-0137 EA 1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....                    | 1,066.47                  | 160.79                  |
| 23 05 19 00-0138 EA 2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....                        | 1,337.04                  | 204.13                  |
| 23 05 19 00-0139 EA 3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....                        | 1,927.35                  | 239.67                  |
| 23 05 19 00-0140 EA 4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....                        | 2,858.32                  | 401.80                  |
| <b>23 05 19 00-0141 Water Flow Switches</b> <small>(23 05 19)</small>   |                           |                         |
| 23 05 19 00-0142 EA Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1).....   | 318.98                    | 45.13                   |
| 23 05 19 00-0143 EA Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1).....  | 329.64                    | 45.13                   |
| 23 05 19 00-0144 EA Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1).....   | 419.69                    | 45.13                   |
| 23 05 19 00-0145 EA Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1).....  | 433.32                    | 45.13                   |
| 23 05 19 00-0146 EA Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1).....                                  | 343.28                    | 45.13                   |
| 23 05 19 00-0147 EA Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1).....                                     | 355.71                    | 45.13                   |
| 23 05 19 00-0148 EA Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1).....                                  | 443.99                    | 45.13                   |
| 23 05 19 00-0149 EA Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1).....                                     | 456.42                    | 45.13                   |
| 23 05 19 00-0150 EA Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1).....                                 | 856.83                    | 45.13                   |
| 23 05 19 00-0151 EA Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1).....                                    | 868.88                    | 45.13                   |
| 23 05 19 00-0152 EA Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1).....                                 | 983.34                    | 45.13                   |
| 23 05 19 00-0153 EA Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1).....                                    | 999.91                    | 45.13                   |
| 23 05 19 00-0154 EA Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1).....                    | 885.45                    | 45.13                   |
| 23 05 19 00-0155 EA Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1).....                       | 902.01                    | 45.13                   |
| 23 05 19 00-0156 EA Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1).....                    | 1,011.96                  | 45.13                   |
| 23 05 19 00-0157 EA Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1).....                       | 1,030.03                  | 45.13                   |
| <b>23 05 23 General-Duty Valves For HVAC Piping</b> <small>(23 05)</small>  |                           |                         |
| Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves, 23 21 13 23-0713 for bolt and gasket sets. |                           |                         |
| <b>23 05 23 00-0001 Gate Valves</b> <small>(23 05 23)</small>   |                           |                         |
| <b>23 05 23 00-0002 Class 125 Threaded, Bronze Gate Valves</b> <small>(23 05 23 00-0001)</small>  |                           |                         |
| Note: 125 psi steam, basic rating, 200 psi cold working pressure.   |                           |                         |
| 23 05 23 00-0003 EA 1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 76.57                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 13.38                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 3.20                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 4.80                      |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 8.00                      |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 11.19                     |                         |
| 23 05 23 00-0004 EA 3/8" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 78.91                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 14.08                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 3.20                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 4.80                      |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 8.00                      |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 11.19                     |                         |
| 23 05 23 00-0005 EA 1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 81.38                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 14.82                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 3.20                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 4.80                      |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 8.00                      |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 11.19                     |                         |
| 23 05 23 00-0006 EA 3/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 104.73                    | 16.85                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 19.97                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 3.82                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 5.72                      |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 9.54                      |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 13.36                     |                         |
| 23 05 23 00-0007 EA 1" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 138.25                    | 19.14                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 24.18                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 5.77                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 8.65                      |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 14.41                     |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 20.18                     |                         |
| 23 05 23 00-0008 EA 1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 179.82                    | 20.37                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 30.63                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 7.77                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 11.66                     |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 19.43                     |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 27.21                     |                         |
| 23 05 23 00-0009 EA 1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....  | 215.74                    | 23.58                   |
| <i>For Work In Restricted Working Space, Add</i>  |                           |                         |
|   | 35.34                     |                         |
| <i>For 150 LB Rating, Add</i>   |                           |                         |
|   | 9.80                      |                         |
| <i>For 200 LB Rating, Add</i>   |                           |                         |
|   | 14.69                     |                         |
| <i>For 250 LB Rating, Add</i>   |                           |                         |
|   | 24.49                     |                         |
| <i>For 300 LB Rating, Add</i>   |                           |                         |
|   | 34.28                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 23 00-0010 EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve .....  | 273.04                    | 27.87                   |
| <i>For Work In Restricted Working Space, Add</i>   | 41.76                     |                         |
| <i>For 150 LB Rating, Add</i>  | 13.38                     |                         |
| <i>For 200 LB Rating, Add</i>  | 20.07                     |                         |
| <i>For 250 LB Rating, Add</i>  | 33.46                     |                         |
| <i>For 300 LB Rating, Add</i>  | 46.84                     |                         |
| 23 05 23 00-0011 EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve .....  | 569.65                    | 37.64                   |
| <i>For Work In Restricted Working Space, Add</i>   | 56.39                     |                         |
| <i>For Chain Operated Type, Add</i>  | 171.76                    |                         |
| <i>For 150 LB Rating, Add</i>  | 38.17                     |                         |
| <i>For 200 LB Rating, Add</i>  | 57.25                     |                         |
| <i>For 250 LB Rating, Add</i>  | 95.42                     |                         |
| <i>For 300 LB Rating, Add</i>  | 133.59                    |                         |
| 23 05 23 00-0012 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve .....  | 673.14                    | 43.70                   |
| <i>For Work In Restricted Working Space, Add</i>   | 65.07                     |                         |
| <i>For Chain Operated Type, Add</i>  | 205.31                    |                         |
| <i>For 150 LB Rating, Add</i>  | 45.63                     |                         |
| <i>For 200 LB Rating, Add</i>  | 68.44                     |                         |
| <i>For 250 LB Rating, Add</i>  | 114.06                    |                         |
| <i>For 300 LB Rating, Add</i>  | 159.69                    |                         |
| 23 05 23 00-0013 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve .....  | 1,333.62                  | 49.34                   |
| <i>For Work In Restricted Working Space, Add</i>   | 74.01                     |                         |
| <i>For Chain Operated Type, Add</i>  | 489.11                    |                         |
| <i>For 150 LB Rating, Add</i>  | 108.69                    |                         |
| <i>For 200 LB Rating, Add</i>  | 163.04                    |                         |
| <i>For 250 LB Rating, Add</i>  | 271.73                    |                         |
| <i>For 300 LB Rating, Add</i>  | 380.42                    |                         |
| <b>23 05 23 00-0014 Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small> |                           |                         |
| Note: 125 psi steam, basic rating. 200 psi cold working pressure.  |                           |                         |
| 23 05 23 00-0015 EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....                 | 306.70                    | 23.58                   |
| <i>For Work In Restricted Working Space, Add</i>   | 35.34                     |                         |
| <i>For 150 LB Rating, Add</i>  | 37.78                     |                         |
| <i>For 250 LB Rating, Add</i>  | 66.12                     |                         |
| <i>For Chain Operated Type, Add</i>  | 66.12                     |                         |
| 23 05 23 00-0016 EA 2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....                     | 458.43                    | 27.87                   |
| <i>For Work In Restricted Working Space, Add</i>   | 41.76                     |                         |
| <i>For 150 LB Rating, Add</i>  | 63.84                     |                         |
| <i>For 250 LB Rating, Add</i>  | 111.73                    |                         |
| <i>For Chain Operated Type, Add</i>  | 111.73                    |                         |
| 23 05 23 00-0017 EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....                 | 668.07                    | 37.64                   |
| <i>For Work In Restricted Working Space, Add</i>   | 56.39                     |                         |
| <i>For 150 LB Rating, Add</i>  | 96.02                     |                         |
| <i>For 250 LB Rating, Add</i>  | 168.04                    |                         |
| <i>For Chain Operated Type, Add</i>  | 168.04                    |                         |
| 23 05 23 00-0018 EA 3" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....                     | 846.81                    | 43.70                   |
| <i>For Work In Restricted Working Space, Add</i>   | 65.07                     |                         |
| <i>For 150 LB Rating, Add</i>  | 125.98                    |                         |
| <i>For 250 LB Rating, Add</i>  | 220.47                    |                         |
| <i>For Chain Operated Type, Add</i>  | 220.47                    |                         |
| 23 05 23 00-0019 EA 4" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....                     | 1,942.39                  | 49.34                   |
| <i>For Work In Restricted Working Space, Add</i>   | 74.01                     |                         |
| <i>For 150 LB Rating, Add</i>  | 339.14                    |                         |
| <i>For 250 LB Rating, Add</i>  | 593.49                    |                         |
| <i>For Chain Operated Type, Add</i>  | 593.49                    |                         |
| <b>23 05 23 00-0020 Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>  |                           |                         |
| Note: 125 psi steam, basic rating. 200 psi cold working pressure.  |                           |                         |
| 23 05 23 00-0021 EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....                  | 517.69                    | 160.79                  |
| <i>For Work In Restricted Working Space, Add</i>   | 60.44                     |                         |
| <i>For 150 LB Rating, Add</i>  | 91.70                     |                         |
| <i>For 250 LB Rating, Add</i>  | 158.11                    |                         |
| <i>For 300 LB Rating, ASTM A182, Add</i>   | 416.95                    |                         |
| <i>For Chain Operated Type, Add</i>  | 158.11                    |                         |
| 23 05 23 00-0022 EA 2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....                      | 585.92                    | 204.13                  |
| <i>For Work In Restricted Working Space, Add</i>   | 76.57                     |                         |
| <i>For 150 LB Rating, Add</i>  | 95.90                     |                         |
| <i>For 250 LB Rating, Add</i>  | 165.35                    |                         |
| <i>For 300 LB Rating, ASTM A182, Add</i>   | 458.31                    |                         |
| <i>For Chain Operated Type, Add</i>  | 165.35                    |                         |
| 23 05 23 00-0023 EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....                  | 653.11                    | 204.42                  |
| <i>For Work In Restricted Working Space, Add</i>   | 76.90                     |                         |
| <i>For 150 LB Rating, Add</i>  | 115.07                    |                         |
| <i>For 250 LB Rating, Add</i>  | 198.39                    |                         |
| <i>For 300 LB Rating, ASTM A182, Add</i>   | 524.95                    |                         |
| <i>For Chain Operated Type, Add</i>  | 198.39                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 05 23 00-0024 | EA  |     | 3" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....795.91   | 795.91                 | 239.67               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 89.99                  |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 143.83                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 247.98                 |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 645.93                 |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 247.98                 |                      |
| 23 05 23 00-0025 | EA  |     | 4" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,164.80   | 1,164.80               | 401.80               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 151.05                 |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 191.78                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 330.65                 |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 913.05                 |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 330.65                 |                      |
| 23 05 23 00-0026 | EA  |     | 5" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,364.73   | 1,364.73               | 404.73               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 151.54                 |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 249.29                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 429.81                 |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 1,112.17               |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 429.81                 |                      |
| 23 05 23 00-0027 | EA  |     | 6" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,622.00   | 1,622.00               | 449.69               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 169.24                 |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 306.78                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 528.94                 |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 1,339.94               |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 528.94                 |                      |
| 23 05 23 00-0028 | EA  |     | 8" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....2,466.17   | 2,466.17               | 574.61               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 214.14                 |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 508.19                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 876.19                 |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 2,109.27               |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 876.19                 |                      |
| 23 05 23 00-0029 | EA  |     | 10" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....3,188.69   | 3,188.69               | 699.52               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 262.32                 |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 671.14                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 1,157.15               |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 2,751.49               |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 1,157.15               |                      |
| 23 05 23 00-0030 | EA  |     | 12" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....4,366.17   | 4,366.17               | 849.42               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 317.96                 |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 958.82                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 1,653.15               |                      |
|                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>  | 3,836.23               |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 1,653.15               |                      |
| 23 05 23 00-0031 |     |     | <b>Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>   |                        |                      |
|                  |     |     | Note: 125 psi steam, basic rating. 200 psi cold working pressure.   |                        |                      |
| 23 05 23 00-0032 | EA  |     | 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....580.87   | 580.87                 | 23.58                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 35.34                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 231.54                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 347.31                 |                      |
| 23 05 23 00-0033 | EA  |     | 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....737.85  | 737.85                 | 27.87                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 41.76                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 299.32                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 448.98                 |                      |
| 23 05 23 00-0034 | EA  |     | 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....863.01   | 863.01                 | 37.64                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 56.39                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 337.52                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 506.28                 |                      |
| 23 05 23 00-0035 | EA  |     | 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....961.73  | 961.73                 | 43.70                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 65.07                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 372.42                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 558.63                 |                      |
| 23 05 23 00-0036 | EA  |     | 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....1,275.23  | 1,275.23               | 49.34                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 74.01                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 514.26                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 771.39                 |                      |
| 23 05 23 00-0037 |     |     | <b>Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>  |                        |                      |
|                  |     |     | Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24". |                        |                      |
| 23 05 23 00-0038 | EA  |     | 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....657.31   | 657.31                 | 160.79               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 60.44                  |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 68.37                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 141.31                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 296.29                 |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 227.92                 |                      |
| 23 05 23 00-0039 | EA  |     | 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....724.59   | 724.59                 | 204.13               |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 76.57                  |                      |
|                  |     |     | <i>For 150 LB Rating, Add</i>   | 70.41                  |                      |
|                  |     |     | <i>For 175 LB Rating, Add</i>   | 145.50                 |                      |
|                  |     |     | <i>For 250 LB Rating, Add</i>   | 305.09                 |                      |
|                  |     |     | <i>For Chain Operated Type, Add</i>   | 234.69                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 23 00-0040 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 741.03 | 741.03                    | 204.42                  |
| <i>For Work In Restricted Working Space, Add</i>   | 76.90                     |                         |
| <i>For 150 LB Rating, Add</i>  | 72.71                     |                         |
| <i>For 175 LB Rating, Add</i>  | 150.26                    |                         |
| <i>For 250 LB Rating, Add</i>  | 315.06                    |                         |
| <i>For Chain Operated Type, Add</i>  | 242.35                    |                         |
| 23 05 23 00-0041 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 833.26     | 833.26                    | 239.67                  |
| <i>For Work In Restricted Working Space, Add</i>   | 89.99                     |                         |
| <i>For 150 LB Rating, Add</i>  | 80.00                     |                         |
| <i>For 175 LB Rating, Add</i>  | 165.32                    |                         |
| <i>For 250 LB Rating, Add</i>  | 346.65                    |                         |
| <i>For Chain Operated Type, Add</i>  | 266.65                    |                         |
| 23 05 23 00-0042 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 1,150.25   | 1,150.25                  | 401.80                  |
| <i>For Work In Restricted Working Space, Add</i>   | 151.05                    |                         |
| <i>For 150 LB Rating, Add</i>  | 97.01                     |                         |
| <i>For 175 LB Rating, Add</i>  | 200.49                    |                         |
| <i>For 250 LB Rating, Add</i>  | 420.39                    |                         |
| <i>For Chain Operated Type, Add</i>  | 323.38                    |                         |
| 23 05 23 00-0043 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 1,407.47   | 1,407.47                  | 404.73                  |
| <i>For Work In Restricted Working Space, Add</i>   | 151.54                    |                         |
| <i>For 150 LB Rating, Add</i>  | 135.35                    |                         |
| <i>For 175 LB Rating, Add</i>  | 279.73                    |                         |
| <i>For 250 LB Rating, Add</i>  | 586.53                    |                         |
| <i>For Chain Operated Type, Add</i>  | 451.18                    |                         |
| 23 05 23 00-0044 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 1,594.65   | 1,594.65                  | 449.69                  |
| <i>For Work In Restricted Working Space, Add</i>   | 169.24                    |                         |
| <i>For 150 LB Rating, Add</i>  | 154.58                    |                         |
| <i>For 175 LB Rating, Add</i>  | 319.46                    |                         |
| <i>For 250 LB Rating, Add</i>  | 669.84                    |                         |
| <i>For Chain Operated Type, Add</i>  | 515.26                    |                         |
| 23 05 23 00-0045 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 2,456.70   | 2,456.70                  | 574.61                  |
| <i>For Work In Restricted Working Space, Add</i>   | 214.14                    |                         |
| <i>For 150 LB Rating, Add</i>  | 261.44                    |                         |
| <i>For 175 LB Rating, Add</i>  | 540.30                    |                         |
| <i>For 250 LB Rating, Add</i>  | 1,132.89                  |                         |
| <i>For Chain Operated Type, Add</i>  | 871.45                    |                         |
| 23 05 23 00-0046 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 3,556.71  | 3,556.71                  | 699.52                  |
| <i>For Work In Restricted Working Space, Add</i>   | 262.32                    |                         |
| <i>For 150 LB Rating, Add</i>  | 402.35                    |                         |
| <i>For 175 LB Rating, Add</i>  | 831.52                    |                         |
| <i>For 250 LB Rating, Add</i>  | 1,743.50                  |                         |
| <i>For Chain Operated Type, Add</i>  | 1,341.16                  |                         |
| 23 05 23 00-0047 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 4,459.49  | 4,459.49                  | 849.42                  |
| <i>For Work In Restricted Working Space, Add</i>   | 317.96                    |                         |
| <i>For 150 LB Rating, Add</i>  | 509.94                    |                         |
| <i>For 175 LB Rating, Add</i>  | 1,053.88                  |                         |
| <i>For 250 LB Rating, Add</i>  | 2,209.75                  |                         |
| <i>For Chain Operated Type, Add</i>  | 1,699.81                  |                         |
| 23 05 23 00-0048 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 8,668.64  | 8,668.64                  | 1,135.21                |
| <i>For Work In Restricted Working Space, Add</i>   | 425.70                    |                         |
| <i>For 150 LB Rating, Add</i>  | 1,087.44                  |                         |
| <i>For 175 LB Rating, Add</i>  | 2,247.39                  |                         |
| <i>For 250 LB Rating, Add</i>  | 4,712.26                  |                         |
| 23 05 23 00-0049 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 11,203.65 | 11,203.65                 | 1,248.73                |
| <i>For Work In Restricted Working Space, Add</i>   | 468.27                    |                         |
| <i>For 150 LB Rating, Add</i>  | 1,446.41                  |                         |
| <i>For 175 LB Rating, Add</i>  | 2,989.25                  |                         |
| <i>For 250 LB Rating, Add</i>  | 6,267.78                  |                         |
| 23 05 23 00-0050 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 15,231.20 | 15,231.20                 | 1,384.96                |
| <i>For Work In Restricted Working Space, Add</i>   | 519.36                    |                         |
| <i>For 150 LB Rating, Add</i>  | 2,025.00                  |                         |
| <i>For 175 LB Rating, Add</i>  | 4,185.00                  |                         |
| <i>For 250 LB Rating, Add</i>  | 8,775.01                  |                         |
| 23 05 23 00-0051 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 19,305.63 | 19,305.63                 | 1,560.91                |
| <i>For Work In Restricted Working Space, Add</i>   | 585.34                    |                         |
| <i>For 150 LB Rating, Add</i>  | 2,603.17                  |                         |
| <i>For 175 LB Rating, Add</i>  | 5,379.89                  |                         |
| <i>For 250 LB Rating, Add</i>  | 11,280.42                 |                         |
| 23 05 23 00-0052 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 26,335.48 | 26,335.48                 | 1,915.67                |
| <i>For Work In Restricted Working Space, Add</i>   | 718.37                    |                         |
| <i>For 150 LB Rating, Add</i>  | 3,591.14                  |                         |
| <i>For 175 LB Rating, Add</i>  | 7,421.68                  |                         |
| <i>For 250 LB Rating, Add</i>  | 15,561.59                 |                         |
| 23 05 23 00-0053 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 54,776.69 | 54,776.69                 | 3,121.82                |
| <i>For Work In Restricted Working Space, Add</i>   | 1,170.68                  |                         |
| <i>For 150 LB Rating, Add</i>  | 7,631.16                  |                         |
| <i>For 175 LB Rating, Add</i>  | 15,771.07                 |                         |
| <i>For 250 LB Rating, Add</i>  | 33,068.37                 |                         |
| 23 05 23 00-0054 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... 69,843.47 | 69,843.47                 | 4,162.44                |
| <i>For Work In Restricted Working Space, Add</i>   | 1,560.91                  |                         |
| <i>For 150 LB Rating, Add</i>  | 9,696.06                  |                         |
| <i>For 175 LB Rating, Add</i>  | 20,038.53                 |                         |
| <i>For 250 LB Rating, Add</i>  | 42,016.28                 |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|---|----------------------|
| 23 05 23 00-0055        | EA  |     | 42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For 150 LB Rating, Add</i><br><i>For 175 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i> | 82,093.77<br>2,003.98<br>11,312.08<br>23,378.29<br>49,019.00  | 5,343.94             |
| 23 05 23 00-0056        | EA  |     | 48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For 150 LB Rating, Add</i><br><i>For 175 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i> | 98,793.31<br>2,504.97<br>13,566.51<br>28,037.45<br>58,788.21  | 6,679.93             |
| 23 05 23 00-0057        | EA  |     | 54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For 150 LB Rating, Add</i><br><i>For 175 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i> | 118,551.98<br>3,005.97<br>16,279.81<br>33,644.94<br>70,545.85 | 8,015.91             |
| <b>23 05 23 00-0058</b> |     |     | <b>Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves</b> (23 05 23 00-0001)<br>Note: 800 psig at 850 degrees F.   |   |                      |
| 23 05 23 00-0059        | EA  |     | 1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 177.30<br>13.38   | 15.31                |
| 23 05 23 00-0060        | EA  |     | 1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 182.11<br>14.82   | 15.31                |
| 23 05 23 00-0061        | EA  |     | 3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 217.09<br>19.97   | 16.85                |
| 23 05 23 00-0062        | EA  |     | 1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 263.49<br>24.18   | 19.14                |
| 23 05 23 00-0063        | EA  |     | 1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 397.17<br>30.63   | 20.37                |
| 23 05 23 00-0064        | EA  |     | 1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 469.00<br>35.34   | 23.58                |
| 23 05 23 00-0065        | EA  |     | 2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 587.52<br>41.76   | 27.87                |
| <b>23 05 23 00-0066</b> |     |     | <b>Ball Valves</b> (23 05 23)<br>See CSI section 23 23 13 00-0000 for refrigeration valves.   |   |                      |
| <b>23 05 23 00-0067</b> |     |     | <b>Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves</b> (23 05 23 00-0066)<br>Note: 125 LB WSP.  |   |                      |
| 23 05 23 00-0068        | EA  |     | 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 63.17<br>2.63<br>6.20<br>14.82                                | 15.31                |
| 23 05 23 00-0069        | EA  |     | 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 87.75<br>2.63<br>9.53<br>19.97                                | 16.85                |
| 23 05 23 00-0070        | EA  |     | 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 109.19<br>2.63<br>12.87<br>24.18                              | 19.14                |
| 23 05 23 00-0071        | EA  |     | 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 150.09<br>2.63<br>21.60<br>30.63                              | 20.37                |
| 23 05 23 00-0072        | EA  |     | 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 179.09<br>2.63<br>27.59<br>35.34                              | 23.58                |
| 23 05 23 00-0073        | EA  |     | 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 216.00<br>2.63<br>34.56<br>41.76                              | 27.87                |
| 23 05 23 00-0074        | EA  |     | 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 550.37<br>2.63<br>163.08<br>56.39                             | 37.64                |
| 23 05 23 00-0075        | EA  |     | 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 635.03<br>2.63<br>188.16<br>65.07                             | 43.70                |
| 23 05 23 00-0076        | EA  |     | 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....<br><i>For Extension Stems And Sleeves On Insulated Pipe, Add</i><br><i>For Full Port, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 816.78<br>2.63<br>256.53<br>74.01                             | 49.34                |



|   | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|------------------|-----|-----|--|------------------------|----------------------|
| <b>23 05 23 00-0077      Screwed, 150 LB, Full Port, Carbon Steel Ball Valves</b> <small>(23 05 23 00-0066)</small>   |                  |     |     |  |                        |                      |
|   | 23 05 23 00-0078 | EA  |     | 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....70.95      |                        | 15.31                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 13.38                  |                      |
|   | 23 05 23 00-0079 | EA  |     | 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....78.01      |                        | 15.31                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 14.82                  |                      |
|   | 23 05 23 00-0080 | EA  |     | 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....107.94     |                        | 16.85                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 19.97                  |                      |
|   | 23 05 23 00-0081 | EA  |     | 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....136.24       |                        | 19.14                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 24.18                  |                      |
|   | 23 05 23 00-0082 | EA  |     | 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....197.18   |                        | 20.37                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 30.63                  |                      |
|   | 23 05 23 00-0083 | EA  |     | 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....238.25   |                        | 23.58                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 35.34                  |                      |
|   | 23 05 23 00-0084 | EA  |     | 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....305.07       |                        | 27.87                |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 41.76                  |                      |
| <b>23 05 23 00-0085      Flanged, 150 LB, Full Port, Carbon Steel Ball Valves</b> <small>(23 05 23 00-0066)</small>   |                  |     |     |  |                        |                      |
|   | 23 05 23 00-0086 | EA  |     | 1-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....438.89   |                        | 160.79               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 60.44                  |                      |
|   |                  |     |     | <i>For 150 LB Rating, Add</i>  | 68.85                  |                      |
|   |                  |     |     | <i>For 250 LB Rating, Add</i>  | 118.71                 |                      |
|   |                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>                                 | 338.15                 |                      |
|   |                  |     |     | <i>For Chain Operated Type, Add</i>                                      | 118.71                 |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 60.44                  |                      |
|   | 23 05 23 00-0087 | EA  |     | 2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....549.75       |                        | 204.13               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 76.57                  |                      |
|   |                  |     |     | <i>For 150 LB Rating, Add</i>  | 85.41                  |                      |
|   |                  |     |     | <i>For 250 LB Rating, Add</i>  | 147.27                 |                      |
|   |                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>                                 | 422.14                 |                      |
|   |                  |     |     | <i>For Chain Operated Type, Add</i>                                      | 147.27                 |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 76.57                  |                      |
|   | 23 05 23 00-0088 | EA  |     | 2-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....794.37   |                        | 204.42               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 76.90                  |                      |
|   |                  |     |     | <i>For 150 LB Rating, Add</i>  | 156.03                 |                      |
|   |                  |     |     | <i>For 250 LB Rating, Add</i>  | 269.02                 |                      |
|   |                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>                                 | 666.21                 |                      |
|   |                  |     |     | <i>For Chain Operated Type, Add</i>                                      | 269.02                 |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 76.90                  |                      |
|   | 23 05 23 00-0089 | EA  |     | 3" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....881.69       |                        | 239.67               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 89.99                  |                      |
|   |                  |     |     | <i>For 150 LB Rating, Add</i>  | 168.70                 |                      |
|   |                  |     |     | <i>For 250 LB Rating, Add</i>  | 290.87                 |                      |
|   |                  |     |     | <i>For 300 LB Rating, ASTM A182, Add</i>                                 | 731.71                 |                      |
|   |                  |     |     | <i>For Chain Operated Type, Add</i>                                      | 290.87                 |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 89.99                  |                      |
|   | 23 05 23 00-0090 | EA  |     | 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....1,320.59     |                        | 401.80               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 151.05                 |                      |
|   | 23 05 23 00-0091 | EA  |     | 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....2,779.55     |                        | 449.69               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 169.24                 |                      |
|   | 23 05 23 00-0092 | EA  |     | 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....4,644.59     |                        | 574.61               |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 214.14                 |                      |
| <b>23 05 23 00-0093      Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves</b> <small>(23 05 23 00-0066)</small> |                  |     |     |  |                        |                      |
|   | 23 05 23 00-0094 | EA  |     | 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....62.32    |                        | 15.31                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 7.76                   |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 14.82                  |                      |
|   | 23 05 23 00-0095 | EA  |     | 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....81.44    |                        | 16.85                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 9.44                   |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 19.97                  |                      |
|   | 23 05 23 00-0096 | EA  |     | 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....101.32     |                        | 19.14                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 12.52                  |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 24.18                  |                      |
|   | 23 05 23 00-0097 | EA  |     | 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....129.30 |                        | 20.37                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 16.24                  |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 30.63                  |                      |
|   | 23 05 23 00-0098 | EA  |     | 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....165.13 |                        | 23.58                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 25.12                  |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 35.34                  |                      |
|   | 23 05 23 00-0099 | EA  |     | 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....199.54     |                        | 27.87                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 31.44                  |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 41.76                  |                      |
|   | 23 05 23 00-0100 | EA  |     | 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....317.78 |                        | 37.64                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 61.79                  |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 56.39                  |                      |
|   | 23 05 23 00-0101 | EA  |     | 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....437.62     |                        | 43.70                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 99.68                  |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 65.07                  |                      |
|   | 23 05 23 00-0102 | EA  |     | 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....668.75     |                        | 49.34                |
|   |                  |     |     | <i>For True Union Socket Or Thread Type, Add</i>                         | 181.77                 |                      |
|   |                  |     |     | <i>For Work In Restricted Working Space, Add</i>                         | 74.01                  |                      |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 05 23 00-0103 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves</b> <small>(23 05 23 00-0066)</small>  |                           |                         |
| 23 05 23 00-0104 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                               | 108.31                    | 22.97                   |
| For Full Port, Add  | 18.64                     |                         |
| For Work In Restricted Working Space, Add   | 20.07                     |                         |
| 23 05 23 00-0105 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                               | 111.82                    | 22.97                   |
| For Full Port, Add  | 18.64                     |                         |
| For Work In Restricted Working Space, Add   | 21.12                     |                         |
| 23 05 23 00-0106 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                               | 115.51                    | 22.97                   |
| For Full Port, Add  | 18.64                     |                         |
| For Work In Restricted Working Space, Add   | 22.23                     |                         |
| 23 05 23 00-0107 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                               | 143.78                    | 25.27                   |
| For Full Port, Add  | 19.76                     |                         |
| For Work In Restricted Working Space, Add   | 29.96                     |                         |
| 23 05 23 00-0108 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                                 | 185.95                    | 28.71                   |
| For Full Port, Add  | 29.27                     |                         |
| For Work In Restricted Working Space, Add   | 36.27                     |                         |
| 23 05 23 00-0109 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....                            | 242.16                    | 30.55                   |
| For Full Port, Add  | 40.06                     |                         |
| For Work In Restricted Working Space, Add   | 45.94                     |                         |
| 23 05 23 00-0110 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....                            | 295.07                    | 35.37                   |
| For Full Port, Add  | 53.27                     |                         |
| For Work In Restricted Working Space, Add   | 53.01                     |                         |
| 23 05 23 00-0111 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                                 | 401.46                    | 41.81                   |
| For Full Port, Add  | 86.69                     |                         |
| For Work In Restricted Working Space, Add   | 62.64                     |                         |
| 23 05 23 00-0112 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....                            | 749.48                    | 56.46                   |
| For Full Port, Add  | 210.38                    |                         |
| For Work In Restricted Working Space, Add   | 84.59                     |                         |
| 23 05 23 00-0113 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....                                 | 1,067.73                  | 65.55                   |
| For Full Port, Add  | 334.07                    |                         |
| For Work In Restricted Working Space, Add   | 97.61                     |                         |
| <b>23 05 23 00-0114 Wye Strainer, Union With Two Pressure Ports, Ball Valves</b> <small>(23 05 23 00-0066)</small>                                      |                           |                         |
| 23 05 23 00-0115 EA 1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....   | 185.12                    | 15.31                   |
| 23 05 23 00-0116 EA 3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....   | 238.21                    | 19.90                   |
| 23 05 23 00-0117 EA 1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....   | 305.81                    | 24.50                   |
| 23 05 23 00-0118 EA 1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve .....  | 415.53                    | 33.68                   |
| 23 05 23 00-0119 EA 1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve .....  | 517.41                    | 39.20                   |
| 23 05 23 00-0120 EA 2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....   | 679.12                    | 45.94                   |
| <b>23 05 23 00-0121 Plastic Ball Valves</b> <small>(23 05 23 00-0066)</small>   |                           |                         |
| Note: Threaded or socket.   |                           |                         |
| <b>23 05 23 00-0122 Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valves</b> <small>(23 05 23 00-0121)</small> |                           |                         |
| 23 05 23 00-0123 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....    | 84.25                     | 15.31                   |
| 23 05 23 00-0124 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....    | 87.98                     | 15.31                   |
| 23 05 23 00-0125 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....    | 112.29                    | 16.85                   |
| 23 05 23 00-0126 EA 1" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....      | 145.00                    | 19.14                   |
| 23 05 23 00-0127 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....  | 173.91                    | 20.37                   |
| 23 05 23 00-0128 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....  | 209.17                    | 23.58                   |
| 23 05 23 00-0129 EA 2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346) .....      | 253.77                    | 27.87                   |
| <b>23 05 23 00-0130 Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valves</b> <small>(23 05 23 00-0121)</small>                      |                           |                         |
| 23 05 23 00-0131 EA 3/8" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                         | 120.75                    | 15.31                   |
| 23 05 23 00-0132 EA 1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                         | 122.82                    | 15.31                   |
| 23 05 23 00-0133 EA 3/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                         | 155.42                    | 16.85                   |
| 23 05 23 00-0134 EA 1" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                           | 191.74                    | 19.14                   |
| 23 05 23 00-0135 EA 1-1/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                       | 284.56                    | 20.37                   |
| 23 05 23 00-0136 EA 1-1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                       | 316.85                    | 23.58                   |
| 23 05 23 00-0137 EA 2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346) .....                           | 379.74                    | 27.87                   |
| <b>23 05 23 00-0138 Viton Liner And Seals, Polypropylene (PP) Ball Valves</b> <small>(23 05 23 00-0121)</small>   |                           |                         |
| 23 05 23 00-0139 EA 3/8" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 133.19                    | 15.31                   |
| 23 05 23 00-0140 EA 1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 143.55                    | 15.31                   |
| 23 05 23 00-0141 EA 3/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 167.03                    | 16.85                   |
| 23 05 23 00-0142 EA 1" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 205.01                    | 19.14                   |
| 23 05 23 00-0143 EA 1-1/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 258.02                    | 20.37                   |



|  | MINOR | CSI | UOM     | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|---------|--|------------------------|----------------------|
|  | 23 05 | 23  | 00-0144 | EA 1-1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 308.55                 | 23.58                |
|  | 23 05 | 23  | 00-0145 | EA 2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346) .....  | 396.32                 | 27.87                |
| <b>23 05 23 00-0146 Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valves</b> <small>(23 05 23 00-0121)</small>  |       |     |         |  |                        |                      |
|  | 23 05 | 23  | 00-0147 | EA 3/8" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 255.94                 | 15.31                |
|  | 23 05 | 23  | 00-0148 | EA 1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 272.94                 | 15.31                |
|  | 23 05 | 23  | 00-0149 | EA 3/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 326.27                 | 16.85                |
|  | 23 05 | 23  | 00-0150 | EA 1" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 382.50                 | 19.14                |
|  | 23 05 | 23  | 00-0151 | EA 1-1/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 467.03                 | 20.37                |
|  | 23 05 | 23  | 00-0152 | EA 1-1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 515.90                 | 23.58                |
|  | 23 05 | 23  | 00-0153 | EA 2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346) .....  | 595.38                 | 27.87                |
| <b>23 05 23 00-0154 Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valves</b> <small>(23 05 23 00-0121)</small>   |       |     |         |  |                        |                      |
|  | 23 05 | 23  | 00-0155 | EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact) .....  | 61.69                  | 15.31                |
|  | 23 05 | 23  | 00-0156 | EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact) .....  | 82.68                  | 16.85                |
|  | 23 05 | 23  | 00-0157 | EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact) .....  | 100.51                 | 19.14                |
|  | 23 05 | 23  | 00-0158 | EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact) .....  | 137.26                 | 20.37                |
|  | 23 05 | 23  | 00-0159 | EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact) .....  | 152.96                 | 23.58                |
|  | 23 05 | 23  | 00-0160 | EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact) .....  | 185.57                 | 27.87                |
| <b>23 05 23 00-0161 Plastic, True Union, Ball Valves</b> <small>(23 05 23 00-0066)</small>   |       |     |         |  |                        |                      |
| <b>23 05 23 00-0162 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valves</b> <small>(23 05 23 00-0161)</small>   |       |     |         |  |                        |                      |
| Note: Socket or NPT connectors.  |       |     |         |  |                        |                      |
|  | 23 05 | 23  | 00-0163 | EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....     | 129.87                 | 15.31                |
|  | 23 05 | 23  | 00-0164 | EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....     | 135.26                 | 15.31                |
|  | 23 05 | 23  | 00-0165 | EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....     | 165.37                 | 16.85                |
|  | 23 05 | 23  | 00-0166 | EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....       | 203.35                 | 19.14                |
|  | 23 05 | 23  | 00-0167 | EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....   | 246.41                 | 20.37                |
|  | 23 05 | 23  | 00-0168 | EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....   | 283.67                 | 23.58                |
|  | 23 05 | 23  | 00-0169 | EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343) .....       | 346.56                 | 27.87                |
| <b>23 05 23 00-0170 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valves</b> <small>(23 05 23 00-0161)</small> |       |     |         |  |                        |                      |
| Note: Socket or NPT connectors.  |       |     |         |  |                        |                      |
|  | 23 05 | 23  | 00-0171 | EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) .....   | 131.53                 | 15.31                |
|  | 23 05 | 23  | 00-0172 | EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) .....   | 151.85                 | 15.31                |
|  | 23 05 | 23  | 00-0173 | EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) .....   | 167.03                 | 16.85                |
|  | 23 05 | 23  | 00-0174 | EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) .....     | 203.35                 | 19.14                |
|  | 23 05 | 23  | 00-0175 | EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) ..... | 243.09                 | 20.37                |
|  | 23 05 | 23  | 00-0176 | EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) ..... | 282.01                 | 23.58                |
|  | 23 05 | 23  | 00-0177 | EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343) .....     | 346.56                 | 27.87                |
| <b>23 05 23 00-0178 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valves</b> <small>(23 05 23 00-0161)</small>   |       |     |         |  |                        |                      |
| Note: Socket or NPT connectors.  |       |     |         |  |                        |                      |
|  | 23 05 | 23  | 00-0179 | EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....   | 77.20                  | 15.31                |
|  | 23 05 | 23  | 00-0180 | EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....   | 99.85                  | 16.85                |
|  | 23 05 | 23  | 00-0181 | EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....   | 120.41                 | 19.14                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 23 00-0182 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....              | 157.66                    | 20.37                   |
| 23 05 23 00-0183 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....              | 184.14                    | 23.58                   |
| 23 05 23 00-0184 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....                  | 247.03                    | 27.87                   |
| 23 05 23 00-0185 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....              | 343.90                    | 37.64                   |
| 23 05 23 00-0186 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....                  | 429.22                    | 43.70                   |
| 23 05 23 00-0187 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560) .....                  | 595.06                    | 49.34                   |
| <b>23 05 23 00-0188 Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valves (23 05 23 00-0161)</b>               |                           |                         |
| Note: Socket or NPT connectors.  |                           |                         |
| 23 05 23 00-0189 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) .....   | 88.81                     | 15.31                   |
| 23 05 23 00-0190 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) .....   | 116.43                    | 16.85                   |
| 23 05 23 00-0191 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) .....     | 143.63                    | 19.14                   |
| 23 05 23 00-0192 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) ..... | 198.30                    | 20.37                   |
| 23 05 23 00-0193 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) ..... | 218.98                    | 23.58                   |
| 23 05 23 00-0194 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) .....     | 278.55                    | 27.87                   |
| 23 05 23 00-0195 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) ..... | 469.97                    | 37.64                   |
| 23 05 23 00-0196 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) .....     | 548.65                    | 43.70                   |
| 23 05 23 00-0197 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560) .....     | 827.29                    | 49.34                   |
| <b>23 05 23 00-0198 Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0161)</b>   |                           |                         |
| <b>23 05 23 00-0199 Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0198)</b>   |                           |                         |
| 23 05 23 00-0200 EA 1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 74.03                     | 15.31                   |
| 23 05 23 00-0201 EA 3/8" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 76.37                     | 15.31                   |
| 23 05 23 00-0202 EA 1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 78.44                     | 15.31                   |
| 23 05 23 00-0203 EA 3/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 100.84                    | 16.85                   |
| 23 05 23 00-0204 EA 1" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 123.63                    | 19.14                   |
| 23 05 23 00-0205 EA 1-1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 149.39                    | 20.37                   |
| 23 05 23 00-0206 EA 1-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 179.26                    | 23.58                   |
| 23 05 23 00-0207 EA 2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 228.79                    | 27.87                   |
| 23 05 23 00-0208 EA 2-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 409.42                    | 37.64                   |
| 23 05 23 00-0209 EA 3" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 457.42                    | 43.70                   |
| 23 05 23 00-0210 EA 4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 620.77                    | 49.34                   |
| <b>23 05 23 00-0211 Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0198)</b>   |                           |                         |
| 23 05 23 00-0212 EA 1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 74.03                     | 15.31                   |
| 23 05 23 00-0213 EA 3/8" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 76.37                     | 15.31                   |
| 23 05 23 00-0214 EA 1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 78.44                     | 15.31                   |
| 23 05 23 00-0215 EA 3/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 100.84                    | 16.85                   |
| 23 05 23 00-0216 EA 1" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 123.63                    | 19.14                   |
| 23 05 23 00-0217 EA 1-1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 149.39                    | 20.37                   |
| 23 05 23 00-0218 EA 1-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 179.26                    | 23.58                   |
| 23 05 23 00-0219 EA 2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 228.79                    | 27.87                   |
| 23 05 23 00-0220 EA 2-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 409.42                    | 37.64                   |
| 23 05 23 00-0221 EA 3" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 457.42                    | 43.70                   |
| 23 05 23 00-0222 EA 4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve .....  | 620.77                    | 49.34                   |
| <b>23 05 23 00-0223 Three Piece Ball Valves (23 05 23 00-0066)</b>   |                           |                         |
| <b>23 05 23 00-0224 Threaded Or Sweated, Bronze Body, Three Piece Ball Valves (23 05 23 00-0223)</b>   |                           |                         |
| 23 05 23 00-0225 EA 1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....  | 110.22                    | 15.31                   |
| For Work In Restricted Working Space, Add  | 13.38                     |                         |
| 23 05 23 00-0226 EA 3/8" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....  | 112.56                    | 15.31                   |
| For Work In Restricted Working Space, Add  | 14.08                     |                         |
| 23 05 23 00-0227 EA 1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....  | 125.47                    | 15.31                   |
| For Work In Restricted Working Space, Add  | 14.82                     |                         |
| 23 05 23 00-0228 EA 3/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....  | 159.93                    | 16.85                   |
| For Work In Restricted Working Space, Add  | 19.97                     |                         |
| 23 05 23 00-0229 EA 1" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....  | 203.20                    | 19.14                   |
| For Work In Restricted Working Space, Add  | 24.18                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                    | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 05 23 00-0230 EA 1-1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 278.33<br>30.63  | 20.37                   |
| 23 05 23 00-0231 EA 1-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 345.96<br>35.34  | 23.58                   |
| 23 05 23 00-0232 EA 2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....<br><i>For Work In Restricted Working Space, Add</i>  | 552.62<br>41.76  | 27.87                   |
| 23 05 23 00-0233 EA 2-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,165.33<br>61.24  | 39.97                   |
| <b>23 05 23 00-0234 Threaded, Carbon Steel Body, Three Piece Ball Valves</b> <small>(23 05 23 00-0223)</small>  |  |                         |
| 23 05 23 00-0235 EA 1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 126.06<br>13.38  | 15.31                   |
| 23 05 23 00-0236 EA 3/8" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 137.57<br>14.08  | 15.31                   |
| 23 05 23 00-0237 EA 1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 145.90<br>14.82  | 15.31                   |
| 23 05 23 00-0238 EA 3/4" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 229.74<br>19.97  | 16.85                   |
| 23 05 23 00-0239 EA 1" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 292.40<br>24.18  | 19.14                   |
| 23 05 23 00-0240 EA 1-1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 437.77<br>30.63  | 20.37                   |
| 23 05 23 00-0241 EA 1-1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 554.01<br>35.34  | 23.58                   |
| 23 05 23 00-0242 EA 2" Threaded, Carbon Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 716.97<br>41.76  | 27.87                   |
| <b>23 05 23 00-0243 Threaded, Stainless Steel Body, Three Piece Ball Valves</b> <small>(23 05 23 00-0223)</small>   |  |                         |
| 23 05 23 00-0244 EA 1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 308.01<br>13.38  | 15.31                   |
| 23 05 23 00-0245 EA 3/8" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 329.97<br>14.08  | 15.31                   |
| 23 05 23 00-0246 EA 1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 347.79<br>14.82  | 15.31                   |
| 23 05 23 00-0247 EA 3/4" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 503.35<br>19.97  | 16.85                   |
| 23 05 23 00-0248 EA 1" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 613.51<br>24.18  | 19.14                   |
| 23 05 23 00-0249 EA 1-1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 718.43<br>30.63  | 20.37                   |
| 23 05 23 00-0250 EA 1-1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 957.53<br>35.34  | 23.58                   |
| 23 05 23 00-0251 EA 2" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,242.83<br>41.76  | 27.87                   |
| 23 05 23 00-0252 EA 3" Threaded, Stainless Steel Body, Three Piece Ball Valve .....<br><i>For Work In Restricted Working Space, Add</i>   | 3,236.59<br>70.68  | 47.47                   |
| <b>23 05 23 00-0253 Globe Valves</b> <small>(23 05 23)</small>  |  |                         |
| <b>23 05 23 00-0254 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves</b> <small>(23 05 23 00-0253)</small>  |  |                         |
| 23 05 23 00-0255 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 85.81<br>11.29<br>13.84<br>16.38<br>20.03<br>14.82           | 15.31                   |
| 23 05 23 00-0256 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 81.00<br>11.29<br>13.84<br>16.38<br>20.03<br>13.38           | 15.31                   |
| 23 05 23 00-0257 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 101.28<br>16.85<br>20.65<br>24.46<br>29.89<br>14.08          | 15.31                   |
| 23 05 23 00-0258 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 103.75<br>16.85<br>20.65<br>24.46<br>29.89<br>79.55<br>14.82 | 15.31                   |
| 23 05 23 00-0259 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 125.48<br>18.26<br>22.39<br>26.51<br>32.40<br>91.43<br>19.97 | 16.08                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 23 05 23 00-0260 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 160.22<br>24.68<br>30.26<br>35.83<br>43.79<br>119.82<br>24.18       | 16.08                   |
| 23 05 23 00-0261 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 239.60<br>42.63<br>52.25<br>61.88<br>75.63<br>192.10<br>30.63       | 20.37                   |
| 23 05 23 00-0262 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 314.32<br>60.92<br>74.68<br>88.44<br>108.09<br>263.30<br>35.34      | 23.58                   |
| 23 05 23 00-0263 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 370.25<br>71.62<br>87.80<br>103.97<br>127.07<br>309.83<br>41.76     | 27.87                   |
| 23 05 23 00-0264 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 420.90<br>72.21<br>88.51<br>104.82<br>128.11<br>56.39               | 37.64                   |
| 23 05 23 00-0265 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 738.76<br>161.78<br>198.31<br>234.84<br>287.03<br>65.07             | 43.70                   |
| <b>23 05 23 00-0266 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-<br/>0253)</b>  |   |                         |
| 23 05 23 00-0267 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Chain Operated Type, Add</i><br><i>For Work In Restricted Working Space, Add</i>                               | 545.13<br>125.84<br>154.25<br>182.66<br>223.26<br>338.94<br>41.76   | 27.87                   |
| 23 05 23 00-0268 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Chain Operated Type, Add</i><br><i>For Work In Restricted Working Space, Add</i>                           | 679.99<br>152.53<br>186.97<br>221.41<br>270.61<br>410.84<br>56.39   | 37.64                   |
| 23 05 23 00-0269 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Chain Operated Type, Add</i><br><i>For Work In Restricted Working Space, Add</i>                               | 807.31<br>183.03<br>224.36<br>265.69<br>324.73<br>493.00<br>65.07   | 43.70                   |
| 23 05 23 00-0270 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For Chain Operated Type, Add</i><br><i>For Work In Restricted Working Space, Add</i>                               | 1,033.87<br>244.04<br>299.15<br>354.25<br>432.98<br>657.34<br>73.99 | 49.34                   |
| <b>23 05 23 00-0271 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-<br/>0253)</b>   |   |                         |
| 23 05 23 00-0272 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For Chain Operated Type, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 526.12<br>83.98<br>121.91<br>135.45<br>76.57                        | 204.13                  |
| 23 05 23 00-0273 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....<br><i>For 150 LB Rating, Add</i><br><i>For 250 LB Rating, Add</i><br><i>For Chain Operated Type, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 586.57<br>102.37<br>148.61<br>165.12<br>76.90                       | 204.42                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0274 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....             | 696.25                    | 239.67                  |
| <i>For 150 LB Rating, Add</i>   | 122.85                    |                         |
| <i>For 250 LB Rating, Add</i>   | 178.33                    |                         |
| <i>For Chain Operated Type, Add</i>   | 198.15                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 89.99                     |                         |
| 23 05 23 00-0275 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....             | 1,031.88                  | 401.80                  |
| <i>For 150 LB Rating, Add</i>   | 163.80                    |                         |
| <i>For 250 LB Rating, Add</i>   | 237.77                    |                         |
| <i>For Chain Operated Type, Add</i>   | 264.19                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 151.05                    |                         |
| 23 05 23 00-0276 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....             | 1,239.90                  | 404.73                  |
| <i>For 150 LB Rating, Add</i>   | 227.78                    |                         |
| <i>For 250 LB Rating, Add</i>   | 330.65                    |                         |
| <i>For Chain Operated Type, Add</i>   | 367.39                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 151.54                    |                         |
| 23 05 23 00-0277 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....             | 1,492.93                  | 449.69                  |
| <i>For 150 LB Rating, Add</i>   | 287.93                    |                         |
| <i>For 250 LB Rating, Add</i>   | 417.96                    |                         |
| <i>For Chain Operated Type, Add</i>   | 464.40                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 169.24                    |                         |
| 23 05 23 00-0278 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....             | 2,142.09                  | 574.61                  |
| <i>For 150 LB Rating, Add</i>   | 442.77                    |                         |
| <i>For 250 LB Rating, Add</i>   | 642.73                    |                         |
| <i>For Chain Operated Type, Add</i>   | 714.15                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 214.14                    |                         |
| 23 05 23 00-0279 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....            | 3,049.85                  | 699.52                  |
| <i>For 150 LB Rating, Add</i>   | 674.39                    |                         |
| <i>For 250 LB Rating, Add</i>   | 978.95                    |                         |
| <i>For Chain Operated Type, Add</i>   | 1,087.73                  |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 262.32                    |                         |
| 23 05 23 00-0280 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....            | 5,176.43                  | 849.42                  |
| <i>For 150 LB Rating, Add</i>   | 1,276.13                  |                         |
| <i>For 250 LB Rating, Add</i>   | 1,852.45                  |                         |
| <i>For Chain Operated Type, Add</i>   | 2,058.28                  |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 317.96                    |                         |
| <b>23 05 23 00-0281 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0253)</b> |                           |                         |
| 23 05 23 00-0282 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....              | 76.98                     | 15.31                   |
| <i>For 150 LB Rating, Add</i>   | 8.55                      |                         |
| <i>For 200 LB Rating, Add</i>   | 10.48                     |                         |
| <i>For 300 LB Rating, Add</i>   | 15.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.82                     |                         |
| 23 05 23 00-0283 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....              | 72.17                     | 15.31                   |
| <i>For 150 LB Rating, Add</i>   | 8.55                      |                         |
| <i>For 200 LB Rating, Add</i>   | 10.48                     |                         |
| <i>For 300 LB Rating, Add</i>   | 15.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.38                     |                         |
| 23 05 23 00-0284 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....              | 74.51                     | 15.31                   |
| <i>For 150 LB Rating, Add</i>   | 8.55                      |                         |
| <i>For 200 LB Rating, Add</i>   | 10.48                     |                         |
| <i>For 300 LB Rating, Add</i>   | 15.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.08                     |                         |
| 23 05 23 00-0285 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....              | 78.82                     | 15.31                   |
| <i>For 150 LB Rating, Add</i>   | 9.12                      |                         |
| <i>For 200 LB Rating, Add</i>   | 11.18                     |                         |
| <i>For 300 LB Rating, Add</i>   | 16.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.82                     |                         |
| 23 05 23 00-0286 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....              | 107.36                    | 16.08                   |
| <i>For 150 LB Rating, Add</i>   | 12.64                     |                         |
| <i>For 200 LB Rating, Add</i>   | 15.50                     |                         |
| <i>For 300 LB Rating, Add</i>   | 22.43                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 19.97                     |                         |
| 23 05 23 00-0287 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....                | 134.13                    | 16.08                   |
| <i>For 150 LB Rating, Add</i>   | 16.59                     |                         |
| <i>For 200 LB Rating, Add</i>   | 20.34                     |                         |
| <i>For 300 LB Rating, Add</i>   | 29.44                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.18                     |                         |
| 23 05 23 00-0288 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....            | 181.61                    | 20.37                   |
| <i>For 150 LB Rating, Add</i>   | 24.65                     |                         |
| <i>For 200 LB Rating, Add</i>   | 30.22                     |                         |
| <i>For 300 LB Rating, Add</i>   | 43.74                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 30.63                     |                         |
| 23 05 23 00-0289 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....            | 210.50                    | 23.58                   |
| <i>For 150 LB Rating, Add</i>   | 28.74                     |                         |
| <i>For 200 LB Rating, Add</i>   | 35.23                     |                         |
| <i>For 300 LB Rating, Add</i>   | 50.99                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 35.34                     |                         |
| 23 05 23 00-0290 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....                | 278.85                    | 27.87                   |
| <i>For 150 LB Rating, Add</i>   | 43.29                     |                         |
| <i>For 200 LB Rating, Add</i>   | 53.06                     |                         |
| <i>For 300 LB Rating, Add</i>   | 76.80                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 41.76                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 23 05 23 00-0291   | EA  |     | 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....                                      | 456.07                 | 40.88                |
|  |     |     | <i>For 150 LB Rating, Add</i>  | 78.09                  |                      |
|  |     |     | <i>For 200 LB Rating, Add</i>  | 95.72                  |                      |
|  |     |     | <i>For 300 LB Rating, Add</i>  | 138.54                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 61.25                  |                      |
| 23 05 23 00-0292   | EA  |     | 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....  | 662.17                 | 47.47                |
|  |     |     | <i>For 150 LB Rating, Add</i>  | 132.24                 |                      |
|  |     |     | <i>For 200 LB Rating, Add</i>  | 162.10                 |                      |
|  |     |     | <i>For 300 LB Rating, Add</i>  | 234.62                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 70.68                  |                      |
| <b>23 05 23 00-0293 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0293)</b>  |     |     |  |                        |                      |
| 23 05 23 00-0294   | EA  |     | 2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 952.20                 | 204.13               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 418.19                 |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 271.82                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 76.57                  |                      |
| 23 05 23 00-0295   | EA  |     | 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 1,080.63               | 204.42               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 494.58                 |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 321.48                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 76.90                  |                      |
| 23 05 23 00-0296   | EA  |     | 3" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 1,271.33               | 239.67               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 582.82                 |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 378.83                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 89.99                  |                      |
| 23 05 23 00-0297   | EA  |     | 4" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 1,890.89               | 401.80               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 832.43                 |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 541.08                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 151.05                 |                      |
| 23 05 23 00-0298   | EA  |     | 5" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 2,991.59               | 404.73               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 1,491.88               |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 969.72                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 151.54                 |                      |
| 23 05 23 00-0299   | EA  |     | 6" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 3,050.60               | 449.69               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 1,491.88               |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 969.72                 |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 169.24                 |                      |
| 23 05 23 00-0300   | EA  |     | 8" Flanged, 125 LB, Iron Body, Angle Globe Valve.....  | 5,580.32               | 574.61               |
|  |     |     | <i>For 250 LB Rating, Add</i>  | 2,919.91               |                      |
|  |     |     | <i>For Chain Operated Type, Add</i>  | 1,897.94               |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 214.14                 |                      |
| <b>23 05 23 00-0301 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0293)</b> |     |     |  |                        |                      |
|  |     |     | Note: 800 PSIG at 850 degrees F.   |                        |                      |
| 23 05 23 00-0302   | EA  |     | 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....   | 221.00                 | 24.81                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 13.38                  |                      |
| 23 05 23 00-0303   | EA  |     | 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....   | 225.81                 | 24.81                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 14.82                  |                      |
| 23 05 23 00-0304   | EA  |     | 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....   | 267.26                 | 33.38                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 19.97                  |                      |
| 23 05 23 00-0305   | EA  |     | 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....     | 329.84                 | 40.27                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 24.18                  |                      |
| 23 05 23 00-0306   | EA  |     | 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... | 529.36                 | 50.99                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 30.63                  |                      |
| 23 05 23 00-0307   | EA  |     | 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... | 634.08                 | 58.96                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 35.34                  |                      |
| 23 05 23 00-0308   | EA  |     | 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....     | 804.40                 | 69.67                |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 41.76                  |                      |
| <b>23 05 23 00-0309 Triple Duty Valves (23 05 23)</b>  |     |     |  |                        |                      |
|  |     |     | Note: Valves function as a shut-off, check valve and calibrated balancing valve.                             |                        |                      |
| <b>23 05 23 00-0310 Straight Pattern, Triple Duty Valves (23 05 23 00-0309)</b>  |     |     |  |                        |                      |
|  |     |     | Note: Bell & Gossett 3DX and 3DS-S Series.   |                        |                      |
| 23 05 23 00-0311   | EA  |     | 1" Threaded, Straight Pattern, Triple Duty Valve.....  | 326.41                 | 16.08                |
| 23 05 23 00-0312   | EA  |     | 1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....  | 380.33                 | 20.37                |
| 23 05 23 00-0313   | EA  |     | 1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....  | 414.65                 | 23.58                |
| 23 05 23 00-0314   | EA  |     | 2" Flanged, Straight Pattern, Triple Duty Valve.....   | 1,062.40               | 204.13               |
| 23 05 23 00-0315   | EA  |     | 2-1/2" Flanged, Straight Pattern, Triple Duty Valve.....   | 1,188.76               | 204.42               |
| 23 05 23 00-0316   | EA  |     | 3" Flanged, Straight Pattern, Triple Duty Valve.....   | 1,306.61               | 239.67               |
| 23 05 23 00-0317   | EA  |     | 4" Flanged, Straight Pattern, Triple Duty Valve.....   | 2,646.70               | 401.80               |
| 23 05 23 00-0318   | EA  |     | 5" Flanged, Straight Pattern Triple Duty Valve.....  | 3,033.35               | 404.73               |
| 23 05 23 00-0319   | EA  |     | 6" Flanged, Straight Pattern, Triple Duty Valve.....   | 4,015.52               | 449.69               |
| 23 05 23 00-0320   | EA  |     | 8" Flanged, Straight Pattern, Triple Duty Valve.....   | 5,399.15               | 574.61               |
| 23 05 23 00-0321   | EA  |     | 10" Flanged, Straight Pattern, Triple Duty Valve.....  | 8,612.19               | 699.52               |
| <b>23 05 23 00-0322 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0309)</b>  |     |     |  |                        |                      |
|  |     |     | Note: Bell & Gossett 3D-S Series.  |                        |                      |
| 23 05 23 00-0323   | EA  |     | 2" Flanged, Angle Pattern, Triple Duty Valve.....  | 1,039.20               | 204.13               |
| 23 05 23 00-0324   | EA  |     | 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....  | 1,160.93               | 204.42               |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
|                         |       |     |     | 23 05 23 00-0325 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....  | 1,283.42               | 239.67               |
|                         |       |     |     | 23 05 23 00-0326 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....  | 2,586.39               | 401.80               |
|                         |       |     |     | 23 05 23 00-0327 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....  | 2,959.13               | 404.73               |
|                         |       |     |     | 23 05 23 00-0328 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....  | 3,319.67               | 449.69               |
|                         |       |     |     | 23 05 23 00-0329 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....  | 5,069.78               | 574.61               |
|                         |       |     |     | 23 05 23 00-0330 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....   | 6,761.24               | 699.52               |
| <b>23 05 23 00-0331</b> |       |     |     | <b>Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0309)</b>   |                        |                      |
|                         |       |     |     | Note: Bell & Gossett 3DS-B Series.   |                        |                      |
|                         |       |     |     | 23 05 23 00-0332 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....   | 1,204.56               | 239.67               |
|                         |       |     |     | 23 05 23 00-0333 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....   | 2,377.64               | 401.80               |
|                         |       |     |     | 23 05 23 00-0334 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....   | 2,722.54               | 404.73               |
|                         |       |     |     | 23 05 23 00-0335 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....   | 3,593.37               | 449.69               |
|                         |       |     |     | 23 05 23 00-0336 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....   | 4,823.92               | 574.61               |
|                         |       |     |     | 23 05 23 00-0337 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....  | 7,651.92               | 699.52               |
|                         |       |     |     | 23 05 23 00-0338 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....  | 11,470.00              | 849.42               |
|                         |       |     |     | 23 05 23 00-0339 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....  | 13,933.81              | 999.31               |
|                         |       |     |     | 23 05 23 00-0340 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....  | 17,421.16              | 1,099.25             |
| <b>23 05 23 00-0341</b> |       |     |     | <b>Grooved Straight Pattern, Triple Duty Valves (23 05 23 00-0309)</b>   |                        |                      |
|                         |       |     |     | Note: Bell & Gossett 3DS-G Series.   |                        |                      |
|                         |       |     |     | 23 05 23 00-0342 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....   | 1,076.46               | 37.83                |
|                         |       |     |     | 23 05 23 00-0343 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....   | 1,283.51               | 45.11                |
|                         |       |     |     | 23 05 23 00-0344 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....   | 1,492.83               | 48.92                |
|                         |       |     |     | 23 05 23 00-0345 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....   | 2,468.71               | 52.72                |
|                         |       |     |     | 23 05 23 00-0346 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....   | 2,855.12               | 63.71                |
|                         |       |     |     | 23 05 23 00-0347 EA 6" Grooved, Straight Pattern Triple Duty Valve.....  | 3,805.74               | 81.69                |
|                         |       |     |     | 23 05 23 00-0348 EA 8" Grooved, Straight Pattern Triple Duty Valve.....  | 5,174.24               | 103.68               |
|                         |       |     |     | 23 05 23 00-0349 EA 10" Grooved, Straight Pattern Triple Duty Valve.....   | 8,153.89               | 116.17               |
|                         |       |     |     | 23 05 23 00-0350 EA 12" Grooved, Straight Pattern Triple Duty Valve.....   | 12,935.66              | 141.65               |
| <b>23 05 23 00-0351</b> |       |     |     | <b>Plug Valves (23 05 23)</b>  |                        |                      |
| <b>23 05 23 00-0352</b> |       |     |     | <b>Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0351)</b>                                      |                        |                      |
|                         |       |     |     | Note: Includes wrench.   |                        |                      |
|                         |       |     |     | 23 05 23 00-0353 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....   | 307.44                 | 15.31                |
|                         |       |     |     | 23 05 23 00-0354 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....   | 324.61                 | 16.85                |
|                         |       |     |     | 23 05 23 00-0355 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....     | 409.73                 | 19.14                |
|                         |       |     |     | 23 05 23 00-0356 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench..... | 491.78                 | 20.37                |
|                         |       |     |     | 23 05 23 00-0357 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench..... | 541.71                 | 23.58                |
|                         |       |     |     | 23 05 23 00-0358 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....     | 639.48                 | 27.87                |
|                         |       |     |     | 23 05 23 00-0359 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench..... | 954.18                 | 37.64                |
|                         |       |     |     | 23 05 23 00-0360 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....     | 1,164.78               | 43.70                |
| <b>23 05 23 00-0361</b> |       |     |     | <b>Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0351)</b>   |                        |                      |
|                         |       |     |     | Note: Wrench operated for 4", gear operated for 6" and 10".  |                        |                      |
|                         |       |     |     | 23 05 23 00-0362 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....                | 544.51                 | 204.13               |
|                         |       |     |     | 23 05 23 00-0363 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....            | 637.39                 | 204.42               |
|                         |       |     |     | 23 05 23 00-0364 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....                | 778.78                 | 239.67               |
|                         |       |     |     | 23 05 23 00-0365 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....                | 1,151.90               | 401.80               |
|                         |       |     |     | 23 05 23 00-0366 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....                | 2,293.86               | 449.69               |
|                         |       |     |     | 23 05 23 00-0367 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....                | 3,830.11               | 574.61               |
|                         |       |     |     | 23 05 23 00-0368 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....               | 6,067.58               | 699.52               |
|                         |       |     |     | 23 05 23 00-0369 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....               | 8,942.42               | 849.42               |
| <b>23 05 23 00-0370</b> |       |     |     | <b>Plug Valves, Forged Steel, Screwed (23 05 23 00-0351)</b>   |                        |                      |
|                         |       |     |     | 23 05 23 00-0371 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....  | 1,153.12               | 15.31                |
|                         |       |     |     | 23 05 23 00-0372 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....  | 1,364.21               | 16.85                |
|                         |       |     |     | 23 05 23 00-0373 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....  | 1,543.44               | 19.14                |
|                         |       |     |     | 23 05 23 00-0374 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....  | 1,853.03               | 20.37                |
|                         |       |     |     | 23 05 23 00-0375 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....  | 2,157.63               | 23.58                |
|                         |       |     |     | 23 05 23 00-0376 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....  | 2,835.05               | 27.87                |
| <b>23 05 23 00-0377</b> |       |     |     | <b>Plug Valves, Eccentric, Cast Iron Flanged (23 05 23 00-0351)</b>  |                        |                      |
|                         |       |     |     | 23 05 23 00-0378 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....                                    | 1,286.38               | 401.80               |
|                         |       |     |     | 23 05 23 00-0379 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....                                    | 1,906.57               | 449.69               |
|                         |       |     |     | 23 05 23 00-0380 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....                                    | 2,585.01               | 574.61               |
|                         |       |     |     | 23 05 23 00-0381 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....                                   | 3,644.00               | 699.52               |
|                         |       |     |     | 23 05 23 00-0382 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....                                   | 4,694.47               | 849.42               |
| <b>23 05 23 00-0383</b> |       |     |     | <b>Foot Valves (23 05 23)</b>  |                        |                      |
| <b>23 05 23 00-0384</b> |       |     |     | <b>Single Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0383)</b>                                      |                        |                      |
|                         |       |     |     | 23 05 23 00-0385 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....                                     | 114.77                 | 38.29                |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0386 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....                      | 130.08                    | 42.89                   |
| 23 05 23 00-0387 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....                      | 163.80                    | 49.02                   |
| 23 05 23 00-0388 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....                          | 211.87                    | 55.14                   |
| 23 05 23 00-0389 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....                      | 467.77                    | 90.38                   |
| 23 05 23 00-0390 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....                          | 595.52                    | 110.28                  |
| <b>23 05 23 00-0391 Double Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0383)</b>          |                           |                         |
| 23 05 23 00-0392 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....                          | 114.77                    | 38.29                   |
| 23 05 23 00-0393 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....                      | 228.19                    | 42.89                   |
| 23 05 23 00-0394 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....                      | 220.40                    | 49.02                   |
| 23 05 23 00-0395 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....                          | 294.84                    | 55.14                   |
| 23 05 23 00-0396 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....                          | 570.65                    | 90.38                   |
| 23 05 23 00-0397 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....                          | 770.08                    | 108.76                  |
| <b>23 05 23 00-0398 Float Valves (23 05 23)</b>   |                           |                         |
| <b>23 05 23 00-0399 Float Valve Assembly For Maintaining Liquid Level In Tanks (23 05 23 00-0398)</b>           |                           |                         |
| <b>23 05 23 00-0400 Single Seat, Bronze Construction (23 05 23 00-0399)</b>                                     |                           |                         |
| Note: For storage tanks, reservoirs, cooling towers and filtration plants.                                      |                           |                         |
| 23 05 23 00-0401 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....                              | 241.68                    | 32.16                   |
| 23 05 23 00-0402 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....                              | 277.67                    | 38.28                   |
| 23 05 23 00-0403 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....                                | 356.26                    | 41.34                   |
| 23 05 23 00-0404 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve.....                             | 587.20                    | 52.06                   |
| 23 05 23 00-0405 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve.....                             | 602.52                    | 59.72                   |
| <b>23 05 23 00-0406 Double Seat, Bronze Construction (23 05 23 00-0399)</b>                                     |                           |                         |
| Note: For hot or cold water or oil to open tanks.   |                           |                         |
| 23 05 23 00-0407 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....                                | 1,234.72                  | 32.16                   |
| 23 05 23 00-0408 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....                                | 1,246.98                  | 38.28                   |
| 23 05 23 00-0409 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....                                  | 1,437.78                  | 41.34                   |
| 23 05 23 00-0410 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....                              | 1,592.21                  | 52.06                   |
| 23 05 23 00-0411 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....                              | 1,820.33                  | 59.72                   |
| 23 05 23 00-0412 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....                                  | 2,384.42                  | 70.44                   |
| 23 05 23 00-0413 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve.....                              | 2,778.37                  | 94.45                   |
| 23 05 23 00-0414 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....                                  | 3,339.98                  | 108.55                  |
| <b>23 05 23 00-0415 Float Valve Single Seated Balanced For Air Oil Or Water (23 05 23 00-0398)</b>              |                           |                         |
| Note: Includes arm, ball and bracket.   |                           |                         |
| <b>23 05 23 00-0416 Brass Body Threaded Ends (23 05 23 00-0415)</b>   |                           |                         |
| 23 05 23 00-0417 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....   | 266.76                    | 41.50                   |
| 23 05 23 00-0418 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....   | 301.08                    | 46.09                   |
| 23 05 23 00-0419 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....     | 368.80                    | 50.99                   |
| 23 05 23 00-0420 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket..... | 590.07                    | 82.39                   |
| 23 05 23 00-0421 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket..... | 623.13                    | 93.87                   |
| 23 05 23 00-0422 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....     | 708.70                    | 116.38                  |
| <b>23 05 23 00-0423 Cast Iron Body Flanged (23 05 23 00-0415)</b>   |                           |                         |
| 23 05 23 00-0424 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....   | 7,735.79                  | 204.42                  |
| 23 05 23 00-0425 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....       | 9,351.54                  | 239.67                  |
| <b>23 05 23 00-0426 Float Operated Valves (23 05 23 00-0398)</b>  |                           |                         |
| <b>23 05 23 00-0427 For Condensate Receivers Tanks And Vessels (23 05 23 00-0426)</b>                           |                           |                         |
| Note: Cast iron body, self-contained, float in-line mount.  |                           |                         |
| 23 05 23 00-0428 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....                | 889.05                    | 71.97                   |
| <b>23 05 23 00-0429 For Condensate Receivers Tanks And Vessels (23 05 23 00-0426)</b>                           |                           |                         |
| Note: Cast iron body, external float tank mount, flanged.   |                           |                         |
| 23 05 23 00-0430 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....              | 1,138.37                  | 133.93                  |
| <b>23 05 23 00-0431 Needle Valves (23 05 23)</b>  |                           |                         |
| <b>23 05 23 00-0432 Bronze Needle Valve (23 05 23 00-0431)</b>  |                           |                         |
| Note: For heating and cooling applications.   |                           |                         |
| 23 05 23 00-0433 EA 1/4" Needle Valve, Bronze.....  | 128.43                    | 15.31                   |
| 23 05 23 00-0434 EA 3/8" Needle Valve, Bronze.....  | 142.59                    | 15.31                   |
| 23 05 23 00-0435 EA 1/2" Needle Valve, Bronze.....  | 155.54                    | 15.31                   |
| 23 05 23 00-0436 EA 3/4" Needle Valve, Bronze.....  | 234.21                    | 16.85                   |
| 23 05 23 00-0437 EA 1" Needle Valve, Bronze.....  | 354.05                    | 19.14                   |
| <b>23 05 23 00-0438 Eccentric Valves With Taps (23 05 23)</b>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 05 23 00-0439</b> <b>Screwed Eccentric Valves With Taps</b> <small>(23 05 23 00-0438)</small> |                           |                         |
| 23 05 23 00-0440    EA    1/2" Diameter Eccentric Valves With Taps, Screwed.....                    | 512.17                    | 15.31                   |
| 23 05 23 00-0441    EA    3/4" Diameter Eccentric Valves With Taps, Screwed.....                    | 536.46                    | 16.85                   |
| 23 05 23 00-0442    EA    1" Diameter Eccentric Valves With Taps, Screwed.....                      | 678.65                    | 19.14                   |
| 23 05 23 00-0443    EA    1-1/4" Diameter Eccentric Valves With Taps, Screwed.....                  | 821.17                    | 20.37                   |
| 23 05 23 00-0444    EA    1-1/2" Diameter Eccentric Valves With Taps, Screwed.....                  | 893.83                    | 23.58                   |
| 23 05 23 00-0445    EA    2" Diameter Eccentric Valves With Taps, Screwed.....                      | 1,050.52                  | 27.87                   |
| 23 05 23 00-0446    EA    2-1/2" Diameter Eccentric Valves With Taps, Screwed.....                  | 1,597.65                  | 37.64                   |
| 23 05 23 00-0447    EA    3" Diameter Eccentric Valves With Taps, Screwed.....                      | 1,946.95                  | 43.70                   |
| <b>23 05 23 00-0448</b> <b>Flanged Eccentric Valves With Taps</b> <small>(23 05 23 00-0438)</small> |                           |                         |
| 23 05 23 00-0449    EA    2-1/2" Diameter Eccentric Valves With Taps, Flanged.....                  | 1,929.44                  | 204.42                  |
| 23 05 23 00-0450    EA    3" Diameter Eccentric Valves With Taps, Flanged.....                      | 2,293.45                  | 239.67                  |
| 23 05 23 00-0451    EA    4" Diameter Eccentric Valves With Taps, Flanged.....                      | 3,030.96                  | 401.80                  |
| 23 05 23 00-0452    EA    5" Diameter Eccentric Valves With Taps, Flanged.....                      | 4,064.92                  | 404.73                  |
| 23 05 23 00-0453    EA    6" Diameter Eccentric Valves With Taps, Flanged.....                      | 5,191.87                  | 449.69                  |
| 23 05 23 00-0454    EA    8" Diameter Eccentric Valves With Taps, Flanged.....                      | 9,079.33                  | 574.61                  |
| 23 05 23 00-0455    EA    10" Diameter Eccentric Valves With Taps, Flanged.....                     | 12,799.73                 | 699.52                  |
| 23 05 23 00-0456    EA    12" Diameter Eccentric Valves With Taps, Flanged.....                     | 22,240.69                 | 849.42                  |
| <b>23 05 23 00-0457</b> <b>Check Valves</b> <small>(23 05 23)</small>                               |                           |                         |
| <b>23 05 23 00-0458</b> <b>Iron Body Wafer Type Check Valve</b> <small>(23 05 23 00-0457)</small>   |                           |                         |
| <b>23 05 23 00-0459</b> <b>Single Disk Type</b> <small>(23 05 23 00-0458)</small>                   |                           |                         |
| 23 05 23 00-0460    EA    2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....       | 538.80                    | 204.19                  |
| For 150 LB Rating, Add  | 59.54                     |                         |
| For 200 LB Rating, Add  | 70.88                     |                         |
| For 300 LB Rating, Add  | 85.05                     |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 178.64                    |                         |
| 23 05 23 00-0461    EA    2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....   | 627.88                    | 204.51                  |
| For 150 LB Rating, Add  | 78.00                     |                         |
| For 200 LB Rating, Add  | 92.86                     |                         |
| For 300 LB Rating, Add  | 111.43                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 218.44                    |                         |
| 23 05 23 00-0462    EA    3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....       | 769.59                    | 239.77                  |
| For 150 LB Rating, Add  | 98.60                     |                         |
| For 200 LB Rating, Add  | 117.38                    |                         |
| For 300 LB Rating, Add  | 140.85                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 271.29                    |                         |
| 23 05 23 00-0463    EA    4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....       | 1,139.61                  | 401.96                  |
| For 150 LB Rating, Add  | 133.54                    |                         |
| For 200 LB Rating, Add  | 158.98                    |                         |
| For 300 LB Rating, Add  | 190.77                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 386.90                    |                         |
| 23 05 23 00-0464    EA    6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....       | 1,701.24                  | 564.16                  |
| For 150 LB Rating, Add  | 209.17                    |                         |
| For 200 LB Rating, Add  | 249.01                    |                         |
| For 300 LB Rating, Add  | 298.81                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 589.26                    |                         |
| 23 05 23 00-0465    EA    8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....       | 2,336.57                  | 648.78                  |
| For 150 LB Rating, Add  | 320.99                    |                         |
| For 200 LB Rating, Add  | 382.14                    |                         |
| For 300 LB Rating, Add  | 458.56                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 849.45                    |                         |
| 23 05 23 00-0466    EA    10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....      | 3,435.88                  | 789.81                  |
| For 150 LB Rating, Add  | 512.69                    |                         |
| For 200 LB Rating, Add  | 610.35                    |                         |
| For 300 LB Rating, Add  | 732.41                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 1,297.52                  |                         |
| <b>23 05 23 00-0467</b> <b>Twin Disc Type</b> <small>(23 05 23 00-0458)</small>                     |                           |                         |
| 23 05 23 00-0468    EA    2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....         | 712.19                    | 204.19                  |
| For 150 LB Rating, Add  | 95.95                     |                         |
| For 200 LB Rating, Add  | 114.22                    |                         |
| For 300 LB Rating, Add  | 137.07                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 256.66                    |                         |
| 23 05 23 00-0469    EA    2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....     | 804.76                    | 204.51                  |
| For 150 LB Rating, Add  | 115.15                    |                         |
| For 200 LB Rating, Add  | 137.08                    |                         |
| For 300 LB Rating, Add  | 164.50                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 298.03                    |                         |
| 23 05 23 00-0470    EA    3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....         | 939.85                    | 239.77                  |
| For 150 LB Rating, Add  | 134.35                    |                         |
| For 200 LB Rating, Add  | 159.94                    |                         |
| For 300 LB Rating, Add  | 191.93                    |                         |
| For 300 LB Rating, Cast Steel, Weld End, Wedge, Add   | 347.91                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                                  | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 23 05 23 00-0471 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>  | 1,316.16<br>170.61<br>203.11<br>243.74<br>466.34           | 401.96                  |
| 23 05 23 00-0472 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>  | 2,015.30<br>275.12<br>327.53<br>393.03<br>730.59           | 564.16                  |
| 23 05 23 00-0473 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>  | 2,806.69<br>420.16<br>500.19<br>600.23<br>1,061.53         | 648.78                  |
| 23 05 23 00-0474 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 4,156.25<br>665.40<br>792.15<br>950.57<br>1,623.40         | 775.71                  |
| 23 05 23 00-0475 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 5,440.46<br>891.49<br>1,061.30<br>1,273.56<br>2,149.39     | 959.06                  |
| 23 05 23 00-0476 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 10,082.97<br>1,812.82<br>2,158.12<br>2,589.74<br>4,174.71  | 1,087.89                |
| 23 05 23 00-0477 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 13,782.59<br>2,559.27<br>3,046.76<br>3,656.11<br>5,803.27  | 1,276.45                |
| 23 05 23 00-0478 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 18,319.72<br>3,474.84<br>4,136.72<br>4,964.06<br>7,800.66  | 1,421.50                |
| 23 05 23 00-0479 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 21,782.46<br>4,155.48<br>4,947.00<br>5,936.40<br>9,303.49  | 1,595.57                |
| 23 05 23 00-0480 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB<br><i>For 150 LB Rating, Add</i><br><i>For 200 LB Rating, Add</i><br><i>For 300 LB Rating, Add</i><br><i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i> | 28,455.46<br>5,460.16<br>6,500.19<br>7,800.23<br>12,191.28 | 1,958.19                |
| <b>23 05 23 00-0481 Lift Check Valves (23 05 23 00-0457)</b>   |  |                         |
| <b>23 05 23 00-0482 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0481)</b><br>Note: Watts #600 series.   |  |                         |
| 23 05 23 00-0483 EA 3/8" Lift Check Valve, Bronze, Threaded  | 132.39   | 15.31                   |
| 23 05 23 00-0484 EA 1/2" Lift Check Valve, Bronze, Threaded  | 140.03   | 15.31                   |
| 23 05 23 00-0485 EA 3/4" Lift Check Valve, Bronze, Threaded  | 179.45   | 16.08                   |
| 23 05 23 00-0486 EA 1" Lift Check Valve, Bronze, Threaded  | 234.65   | 16.08                   |
| 23 05 23 00-0487 EA 1-1/4" Lift Check Valve, Bronze, Threaded  | 322.90   | 20.37                   |
| 23 05 23 00-0488 EA 1-1/2" Lift Check Valve, Bronze, Threaded  | 391.20   | 23.58                   |
| 23 05 23 00-0489 EA 2" Lift Check Valve, Bronze, Threaded  | 550.30   | 27.87                   |
| <b>23 05 23 00-0490 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0481)</b><br>Note: Crane 366E.   |  |                         |
| 23 05 23 00-0491 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB  | 759.26   | 15.31                   |
| 23 05 23 00-0492 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB  | 923.92   | 16.08                   |
| 23 05 23 00-0493 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB  | 1,647.85   | 16.08                   |
| 23 05 23 00-0494 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB  | 2,194.82   | 20.37                   |
| 23 05 23 00-0495 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB  | 2,385.70   | 23.58                   |
| 23 05 23 00-0496 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB  | 3,061.62   | 27.87                   |
| <b>23 05 23 00-0497 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0481)</b><br>Note: Mueller 105MAP.  |  |                         |
| 23 05 23 00-0498 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB  | 1,155.08   | 204.13                  |
| 23 05 23 00-0499 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB  | 1,257.38   | 204.42                  |
| 23 05 23 00-0500 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB  | 1,379.32   | 239.67                  |
| 23 05 23 00-0501 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB  | 1,954.00   | 401.80                  |
| 23 05 23 00-0502 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB  | 2,371.02   | 404.73                  |
| 23 05 23 00-0503 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB  | 2,901.61   | 449.69                  |
| 23 05 23 00-0504 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB  | 4,992.09   | 574.61                  |
| 23 05 23 00-0505 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB   | 6,261.00   | 699.52                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0506 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB .....  | 10,021.65                 | 849.42                  |
| 23 05 23 00-0507 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB .....  | 13,629.08                 | 1,135.21                |
| 23 05 23 00-0508 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB .....  | 15,098.90                 | 1,248.73                |
| <b>23 05 23 00-0509 Bronze Body Swing Check Valves (23 05 23 00-0457)</b>   |                           |                         |
| <b>23 05 23 00-0510 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing<br/>Check Valves (23 05 23 00-0509)</b> |                           |                         |
| 23 05 23 00-0511 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                    | 94.27                     | 15.31                   |
| <i>For 300 LB Rating, Add</i>   | 17.50                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.82                     |                         |
| 23 05 23 00-0512 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                    | 89.46                     | 15.31                   |
| <i>For 300 LB Rating, Add</i>   | 17.50                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.38                     |                         |
| 23 05 23 00-0513 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                    | 91.80                     | 15.31                   |
| <i>For 300 LB Rating, Add</i>   | 17.50                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.08                     |                         |
| 23 05 23 00-0514 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                    | 96.02                     | 15.31                   |
| <i>For 300 LB Rating, Add</i>   | 18.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.82                     |                         |
| 23 05 23 00-0515 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                    | 123.06                    | 16.08                   |
| <i>For 300 LB Rating, Add</i>   | 22.03                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 19.97                     |                         |
| 23 05 23 00-0516 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                      | 157.31                    | 16.08                   |
| <i>For 300 LB Rating, Add</i>   | 29.92                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.18                     |                         |
| 23 05 23 00-0517 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                  | 209.76                    | 20.37                   |
| <i>For 300 LB Rating, Add</i>   | 41.99                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 30.63                     |                         |
| 23 05 23 00-0518 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                  | 268.57                    | 23.58                   |
| <i>For 300 LB Rating, Add</i>   | 58.80                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 35.34                     |                         |
| 23 05 23 00-0519 EA 2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                      | 333.07                    | 27.87                   |
| <i>For 300 LB Rating, Add</i>   | 75.61                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 41.76                     |                         |
| 23 05 23 00-0520 EA 2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                  | 633.62                    | 37.64                   |
| <i>For 300 LB Rating, Add</i>   | 173.80                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 56.39                     |                         |
| 23 05 23 00-0521 EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                      | 850.71                    | 43.70                   |
| <i>For 300 LB Rating, Add</i>   | 247.19                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 65.07                     |                         |
| 23 05 23 00-0522 EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....                                      | 963.95                    | 49.34                   |
| <i>For 300 LB Rating, Add</i>   | 279.72                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 74.01                     |                         |
| <b>23 05 23 00-0523 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0457)</b>                             |                           |                         |
| 23 05 23 00-0524 EA 1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....   | 429.86                    | 114.85                  |
| <i>For 150 LB Rating, Add</i>   | 194.07                    |                         |
| <i>For 250 LB Rating, Add</i>   | 371.01                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 43.34                     |                         |
| 23 05 23 00-0525 EA 1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....                                       | 480.86                    | 133.99                  |
| <i>For 150 LB Rating, Add</i>   | 213.81                    |                         |
| <i>For 250 LB Rating, Add</i>   | 408.75                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 49.93                     |                         |
| 23 05 23 00-0526 EA 1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....                                       | 542.50                    | 160.79                  |
| <i>For 150 LB Rating, Add</i>   | 231.89                    |                         |
| <i>For 250 LB Rating, Add</i>   | 443.33                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 60.44                     |                         |
| 23 05 23 00-0527 EA 2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....   | 678.76                    | 204.13                  |
| <i>For 150 LB Rating, Add</i>   | 288.01                    |                         |
| <i>For 250 LB Rating, Add</i>   | 550.60                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 76.57                     |                         |
| 23 05 23 00-0528 EA 2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....                                       | 750.63                    | 204.42                  |
| <i>For 150 LB Rating, Add</i>   | 336.12                    |                         |
| <i>For 250 LB Rating, Add</i>   | 642.59                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 76.90                     |                         |
| 23 05 23 00-0529 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....   | 837.11                    | 239.67                  |
| <i>For 150 LB Rating, Add</i>   | 365.26                    |                         |
| <i>For 250 LB Rating, Add</i>   | 698.30                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 89.99                     |                         |
| 23 05 23 00-0530 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....   | 1,333.64                  | 401.80                  |
| <i>For 150 LB Rating, Add</i>   | 564.50                    |                         |
| <i>For 250 LB Rating, Add</i>   | 1,079.18                  |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 151.05                    |                         |
| 23 05 23 00-0531 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....   | 1,723.92                  | 404.73                  |
| <i>For 150 LB Rating, Add</i>   | 828.78                    |                         |
| <i>For 250 LB Rating, Add</i>   | 1,584.44                  |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 151.54                    |                         |
| 23 05 23 00-0532 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....   | 1,977.28                  | 449.69                  |
| <i>For 150 LB Rating, Add</i>   | 960.94                    |                         |
| <i>For 250 LB Rating, Add</i>   | 1,837.10                  |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 169.24                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0533 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....            | 4,241.92                  | 574.61                  |
| For 150 LB Rating, Add  | 2,399.12                  |                         |
| For 250 LB Rating, Add  | 4,586.56                  |                         |
| For Work In Restricted Working Space, Add   | 214.14                    |                         |
| 23 05 23 00-0534 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 5,676.92                  | 699.52                  |
| For 150 LB Rating, Add  | 3,265.71                  |                         |
| For 250 LB Rating, Add  | 6,243.28                  |                         |
| For Work In Restricted Working Space, Add   | 262.32                    |                         |
| 23 05 23 00-0535 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 8,549.18                  | 849.42                  |
| For 150 LB Rating, Add  | 5,092.72                  |                         |
| For 250 LB Rating, Add  | 9,736.09                  |                         |
| For Work In Restricted Working Space, Add   | 317.96                    |                         |
| 23 05 23 00-0536 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 9,897.92                  | 1,135.21                |
| For 150 LB Rating, Add  | 5,765.66                  |                         |
| For 250 LB Rating, Add  | 11,022.58                 |                         |
| For Work In Restricted Working Space, Add   | 425.70                    |                         |
| 23 05 23 00-0537 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 13,910.38                 | 1,248.73                |
| For 150 LB Rating, Add  | 8,397.64                  |                         |
| For 250 LB Rating, Add  | 16,054.31                 |                         |
| For Work In Restricted Working Space, Add   | 468.27                    |                         |
| 23 05 23 00-0538 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 21,141.09                 | 1,384.96                |
| For 150 LB Rating, Add  | 13,198.73                 |                         |
| For 250 LB Rating, Add  | 25,232.87                 |                         |
| For Work In Restricted Working Space, Add   | 519.36                    |                         |
| 23 05 23 00-0539 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 28,966.46                 | 1,560.91                |
| For 150 LB Rating, Add  | 18,370.42                 |                         |
| For 250 LB Rating, Add  | 35,119.92                 |                         |
| For Work In Restricted Working Space, Add   | 585.34                    |                         |
| 23 05 23 00-0540 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....           | 40,214.34                 | 1,915.67                |
| For 150 LB Rating, Add  | 25,717.44                 |                         |
| For 250 LB Rating, Add  | 49,165.69                 |                         |
| For Work In Restricted Working Space, Add   | 718.37                    |                         |
| <b>23 05 23 00-0541 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston</b>       |                           |                         |
| <b>Check, Swing Check Valves</b> (23 05 23 00-0457)   |                           |                         |
| Note: 800 PSIG at 850 Degrees F.  |                           |                         |
| 23 05 23 00-0542 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve.....                 | 204.77                    | 15.31                   |
| For Work In Restricted Working Space, Add   | 14.82                     |                         |
| 23 05 23 00-0543 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve.....                       | 242.98                    | 16.85                   |
| For Work In Restricted Working Space, Add   | 19.97                     |                         |
| 23 05 23 00-0544 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve.....                   | 287.76                    | 19.14                   |
| For Work In Restricted Working Space, Add   | 24.18                     |                         |
| 23 05 23 00-0545 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve.....               | 440.89                    | 20.37                   |
| For Work In Restricted Working Space, Add   | 30.63                     |                         |
| 23 05 23 00-0546 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve.....                     | 522.41                    | 23.58                   |
| For Work In Restricted Working Space, Add   | 35.34                     |                         |
| 23 05 23 00-0547 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve.....                   | 702.44                    | 27.87                   |
| For Work In Restricted Working Space, Add   | 41.76                     |                         |
| <b>23 05 23 00-0548 Plastic Check Valve</b> (23 05 23 00-0457)                                    |                           |                         |
| <b>23 05 23 00-0549 Polyvinyl Chloride (PVC) Check Valve</b> (23 05 23 00-0548)                   |                           |                         |
| <b>23 05 23 00-0550 Polyvinyl Chloride (PVC) "Y" Check Valve</b> (23 05 23 00-0549)               |                           |                         |
| 23 05 23 00-0551 EA 1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....   | 107.42                    | 15.31                   |
| 23 05 23 00-0552 EA 3/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....   | 128.87                    | 16.85                   |
| 23 05 23 00-0553 EA 1" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....     | 148.98                    | 19.14                   |
| 23 05 23 00-0554 EA 1-1/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket..... | 209.58                    | 20.37                   |
| 23 05 23 00-0555 EA 1-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket..... | 234.24                    | 23.58                   |
| 23 05 23 00-0556 EA 2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....     | 401.64                    | 25.66                   |
| 23 05 23 00-0557 EA 2-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket..... | 475.61                    | 37.64                   |
| 23 05 23 00-0558 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....     | 523.44                    | 43.70                   |
| 23 05 23 00-0559 EA 4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....     | 748.33                    | 49.34                   |
| 23 05 23 00-0560 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Flanged.....                | 729.92                    | 239.67                  |
| <b>23 05 23 00-0561 Polyvinyl Chloride (PVC) True Union Ball Check Valve</b> (23 05 23 00-0549)   |                           |                         |
| <b>23 05 23 00-0562 Valves</b> (23 05 23 00-0561)   |                           |                         |
| 23 05 23 00-0563 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....                | 84.23                     | 15.31                   |
| 23 05 23 00-0564 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....                | 106.38                    | 16.85                   |
| 23 05 23 00-0565 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....                  | 130.36                    | 19.14                   |
| 23 05 23 00-0566 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....              | 168.44                    | 20.37                   |
| 23 05 23 00-0567 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....              | 197.41                    | 23.58                   |
| 23 05 23 00-0568 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....                  | 283.53                    | 27.87                   |
| 23 05 23 00-0569 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....                  | 455.04                    | 37.64                   |
| 23 05 23 00-0570 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....                  | 752.68                    | 43.70                   |
| <b>23 05 23 00-0571 Foot Valve Screen</b> (23 05 23 00-0561)                                      |                           |                         |
| Note: For use with PVC true union ball check valves above.  |                           |                         |
| 23 05 23 00-0572 EA 1/2" Foot Valve Screen Option.....  | 59.16                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 23 00-0573 EA 3/4" Foot Valve Screen Option .....  | 70.74                     |                         |
| 23 05 23 00-0574 EA 1" Foot Valve Screen Option .....  | 81.97                     |                         |
| 23 05 23 00-0575 EA 1-1/4" Foot Valve Screen Option .....  | 123.75                    |                         |
| 23 05 23 00-0576 EA 1-1/2" Foot Valve Screen Option .....  | 136.92                    |                         |
| 23 05 23 00-0577 EA 2" Foot Valve Screen Option .....  | 148.15                    |                         |
| 23 05 23 00-0578 EA 2-1/2" Foot Valve Screen Option .....  | 176.76                    |                         |
| 23 05 23 00-0579 EA 3" Foot Valve Screen Option .....  | 205.38                    |                         |
| 23 05 23 00-0580 EA 4" Foot Valve Screen Option .....  | 249.26                    |                         |
| <b>23 05 23 00-0581 Hayward "True Check" With VITON Seals</b> <small>(23 05 23 00-0561)</small>  |                           |                         |
| 23 05 23 00-0582 EA 1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 76.11                     | 15.31                   |
| 23 05 23 00-0583 EA 3/8" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 78.45                     | 15.31                   |
| 23 05 23 00-0584 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 85.06                     | 15.31                   |
| 23 05 23 00-0585 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 106.30                    | 16.85                   |
| 23 05 23 00-0586 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 131.53                    | 19.14                   |
| 23 05 23 00-0587 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 168.36                    | 20.37                   |
| 23 05 23 00-0588 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 202.39                    | 23.58                   |
| 23 05 23 00-0589 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 252.01                    | 27.87                   |
| 23 05 23 00-0590 EA 2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 450.06                    | 37.64                   |
| 23 05 23 00-0591 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 495.57                    | 43.70                   |
| 23 05 23 00-0592 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 761.77                    | 49.34                   |
| <b>23 05 23 00-0593 Hayward "True Check" With Ethylene Propylene Diene Monomer (EPDM) Seals</b> <small>(23 05 23 00-0561)</small>                              |                           |                         |
| 23 05 23 00-0594 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 80.92                     | 15.31                   |
| 23 05 23 00-0595 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 102.23                    | 16.85                   |
| 23 05 23 00-0596 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 125.89                    | 19.14                   |
| 23 05 23 00-0597 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 162.22                    | 20.37                   |
| 23 05 23 00-0598 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 191.11                    | 23.58                   |
| 23 05 23 00-0599 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 242.06                    | 27.87                   |
| 23 05 23 00-0600 EA 2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 435.13                    | 37.64                   |
| 23 05 23 00-0601 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 483.13                    | 43.70                   |
| 23 05 23 00-0602 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....  | 742.69                    | 49.34                   |
| <b>23 05 23 00-0603 Polyvinyl Chloride (PVC) Check Valve, Ethylene Propylene Diene Monomer (EPDM) Housing, Flanged</b> <small>(23 05 23 00-0549)</small>       |                           |                         |
| 23 05 23 00-0604 EA 1" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                          | 373.68                    | 91.88                   |
| 23 05 23 00-0605 EA 1-1/4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                      | 408.54                    | 107.20                  |
| 23 05 23 00-0606 EA 1-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                      | 452.47                    | 133.99                  |
| 23 05 23 00-0607 EA 2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                          | 553.78                    | 168.44                  |
| 23 05 23 00-0608 EA 2-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                      | 657.83                    | 169.25                  |
| 23 05 23 00-0609 EA 3" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                          | 889.64                    | 197.46                  |
| 23 05 23 00-0610 EA 4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                          | 1,244.47                  | 334.97                  |
| 23 05 23 00-0611 EA 6" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....                          | 2,050.06                  | 564.16                  |
| <b>23 05 23 00-0612 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections</b> <small>(23 05 23 00-0548)</small>                      |                           |                         |
| 23 05 23 00-0613 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 102.26                    | 15.31                   |
| For Work In Restricted Working Space, Add  | 14.82                     |                         |
| 23 05 23 00-0614 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 119.43                    | 16.85                   |
| For Work In Restricted Working Space, Add  | 19.97                     |                         |
| 23 05 23 00-0615 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 135.54                    | 19.14                   |
| For Work In Restricted Working Space, Add  | 24.18                     |                         |
| 23 05 23 00-0616 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 159.30                    | 20.37                   |
| For Work In Restricted Working Space, Add  | 30.63                     |                         |
| 23 05 23 00-0617 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 178.31                    | 23.58                   |
| For Work In Restricted Working Space, Add  | 35.34                     |                         |
| 23 05 23 00-0618 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 233.31                    | 27.87                   |
| For Work In Restricted Working Space, Add  | 41.76                     |                         |
| 23 05 23 00-0619 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 321.94                    | 37.64                   |
| For Work In Restricted Working Space, Add  | 56.39                     |                         |
| 23 05 23 00-0620 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....  | 390.73                    | 43.70                   |
| For Work In Restricted Working Space, Add  | 65.07                     |                         |
| <b>23 05 23 00-0621 Polyvinyl Chloride (PVC) Body, Swing Check Valves</b> <small>(23 05 23 00-0548)</small>  |                           |                         |
| <b>23 05 23 00-0622 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals</b> <small>(23 05 23 00-0621)</small> |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|---|------------------------|----------------------|
| 23 05 23 00-0623   | EA  |     | 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals .....<br><i>For Work In Restricted Working Space, Add</i>                     | 714.57<br>75.53        | 197.37               |
| 23 05 23 00-0624   | EA  |     | 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals .....<br><i>For Work In Restricted Working Space, Add</i>                     | 932.20<br>124.40       | 334.83               |
| 23 05 23 00-0625   | EA  |     | 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals .....<br><i>For Work In Restricted Working Space, Add</i>                     | 1,425.04<br>154.31     | 374.74               |
| 23 05 23 00-0626   | EA  |     | 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals .....<br><i>For Work In Restricted Working Space, Add</i>                     | 1,884.77<br>174.88     | 474.68               |
| <b>23 05 23 00-0627 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals <small>(23 05 23 00-0627)</small></b>   |     |     |   |                        |                      |
| 23 05 23 00-0628   | EA  |     | 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals .....<br><i>For Work In Restricted Working Space, Add</i>   | 834.00<br>75.53        | 197.37               |
| 23 05 23 00-0629   | EA  |     | 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,195.94<br>124.40     | 334.83               |
| 23 05 23 00-0630   | EA  |     | 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,674.86<br>154.31     | 374.74               |
| 23 05 23 00-0631   | EA  |     | 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals .....<br><i>For Work In Restricted Working Space, Add</i>   | 2,183.35<br>174.88     | 474.68               |
| <b>23 05 23 00-0632 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter Weights <small>(23 05 23 00-0621)</small></b> |     |     |   |                        |                      |
| 23 05 23 00-0633   | EA  |     | 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights .....<br><i>For Work In Restricted Working Space, Add</i> | 865.52<br>75.53        | 197.37               |
| 23 05 23 00-0634   | EA  |     | 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights .....<br><i>For Work In Restricted Working Space, Add</i> | 1,198.43<br>124.40     | 334.83               |
| 23 05 23 00-0635   | EA  |     | 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights .....<br><i>For Work In Restricted Working Space, Add</i> | 1,564.38<br>154.31     | 374.74               |
| 23 05 23 00-0636   | EA  |     | 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights .....<br><i>For Work In Restricted Working Space, Add</i> | 1,999.56<br>174.88     | 474.68               |
| <b>23 05 23 00-0637 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals And Counter Weights <small>(23 05 23 00-0621)</small></b>                                   |     |     |   |                        |                      |
| 23 05 23 00-0638   | EA  |     | 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 965.04<br>75.53        | 197.37               |
| 23 05 23 00-0639   | EA  |     | 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 1,343.58<br>124.40     | 334.83               |
| 23 05 23 00-0640   | EA  |     | 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 1,771.73<br>154.31     | 374.74               |
| 23 05 23 00-0641   | EA  |     | 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 2,248.38<br>174.88     | 474.68               |
| <b>23 05 23 00-0642 Diaphragm Valves <small>(23 05 23)</small></b>   |     |     |   |                        |                      |
| <b>23 05 23 00-0643 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small></b>                                       |     |     |   |                        |                      |
| 23 05 23 00-0644   | EA  |     | 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....  | 307.24                 | 45.81                |
| 23 05 23 00-0645   | EA  |     | 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....  | 390.96                 | 50.75                |
| 23 05 23 00-0646   | EA  |     | 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....  | 426.72                 | 62.74                |
| 23 05 23 00-0647   | EA  |     | 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....  | 675.43                 | 93.75                |
| 23 05 23 00-0648   | EA  |     | 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....  | 1,073.53               | 112.79               |
| <b>23 05 23 00-0649 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small></b>  |     |     |   |                        |                      |
| 23 05 23 00-0650   | EA  |     | 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 307.80                 | 73.50                |
| 23 05 23 00-0651   | EA  |     | 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 355.70                 | 76.57                |
| 23 05 23 00-0652   | EA  |     | 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 426.58                 | 114.85               |
| 23 05 23 00-0653   | EA  |     | 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 640.29                 | 160.79               |
| 23 05 23 00-0654   | EA  |     | 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 998.54                 | 204.13               |
| 23 05 23 00-0655   | EA  |     | 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 1,253.79               | 204.42               |
| 23 05 23 00-0656   | EA  |     | 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....   | 1,551.52               | 239.67               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0657 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated .....                      | 2,221.59                  | 401.80                  |
| 23 05 23 00-0658 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated .....                      | 4,413.27                  | 449.69                  |
| 23 05 23 00-0659 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated .....                      | 6,817.60                  | 574.61                  |
| <b>23 05 23 00-0660 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves</b> (23 05 23 00-0642)                                     |                           |                         |
| 23 05 23 00-0661 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                   | 194.97                    | 45.81                   |
| 23 05 23 00-0662 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                   | 252.08                    | 50.75                   |
| 23 05 23 00-0663 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                     | 287.84                    | 62.74                   |
| 23 05 23 00-0664 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                 | 486.31                    | 93.75                   |
| 23 05 23 00-0665 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                     | 633.26                    | 112.79                  |
| <b>23 05 23 00-0666 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves</b> (23 05 23 00-0642)                                      |                           |                         |
| 23 05 23 00-0667 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                    | 215.02                    | 73.50                   |
| 23 05 23 00-0668 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                    | 250.50                    | 76.57                   |
| 23 05 23 00-0669 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                      | 321.35                    | 114.85                  |
| 23 05 23 00-0670 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                  | 497.02                    | 160.79                  |
| 23 05 23 00-0671 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                      | 664.94                    | 204.13                  |
| 23 05 23 00-0672 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                  | 790.51                    | 204.42                  |
| 23 05 23 00-0673 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                      | 958.21                    | 239.67                  |
| 23 05 23 00-0674 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                      | 1,522.21                  | 401.80                  |
| 23 05 23 00-0675 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                      | 2,846.42                  | 449.69                  |
| 23 05 23 00-0676 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....                      | 4,332.44                  | 574.61                  |
| <b>23 05 23 00-0677 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves</b> (23 05 23 00-0642)  |                           |                         |
| 23 05 23 00-0678 EA 1" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 394.88                    | 114.85                  |
| 23 05 23 00-0679 EA 1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 628.65                    | 160.79                  |
| 23 05 23 00-0680 EA 2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 840.73                    | 204.13                  |
| 23 05 23 00-0681 EA 2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 1,169.57                  | 204.42                  |
| 23 05 23 00-0682 EA 3" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 1,297.89                  | 239.67                  |
| 23 05 23 00-0683 EA 4" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 2,046.44                  | 401.80                  |
| 23 05 23 00-0684 EA 6" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 3,915.13                  | 449.69                  |
| 23 05 23 00-0685 EA 8" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....  | 8,012.31                  | 574.61                  |
| <b>23 05 23 00-0686 Solenoid Valves</b> (23 05 23)  |                           |                         |
| <b>23 05 23 00-0687 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure</b> (23 05 23 00-0686)  |                           |                         |
| 23 05 23 00-0688 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Water .....   | 142.43                    | 15.31                   |
| 23 05 23 00-0689 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Water .....   | 164.76                    | 15.31                   |
| 23 05 23 00-0690 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Water .....   | 211.64                    | 16.85                   |
| 23 05 23 00-0691 EA 1" Solenoid Valve, Bronze, 150 PSI, Water .....   | 307.82                    | 19.14                   |
| 23 05 23 00-0692 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Water .....   | 537.27                    | 23.58                   |
| 23 05 23 00-0693 EA 2" Solenoid Valve, Bronze, 150 PSI, Water .....   | 830.81                    | 27.87                   |
| 23 05 23 00-0694 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Water .....   | 1,131.20                  | 37.64                   |
| 23 05 23 00-0695 EA 3" Solenoid Valve, Bronze, 150 PSI, Water .....   | 1,628.09                  | 43.70                   |
| <b>23 05 23 00-0696 Flow Control Valves And Meters</b> (23 05 23)   |                           |                         |
| <b>23 05 23 00-0697 Conditioned Water Balancing Valves</b> (23 05 23 00-0696)   |                           |                         |
| Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter. |                           |                         |
| 23 05 23 00-0698 EA 1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....                                       | 191.86                    | 78.12                   |
| 23 05 23 00-0699 EA 3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....                                       | 233.08                    | 104.16                  |
| 23 05 23 00-0700 EA 1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 1,392.18                  | 119.02                  |
| 23 05 23 00-0701 EA 1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....                                     | 1,503.74                  | 147.05                  |
| 23 05 23 00-0702 EA 1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....                                     | 1,609.79                  | 156.24                  |
| 23 05 23 00-0703 EA 2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 1,724.92                  | 178.61                  |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0704 EA 2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 3,063.01                  | 310.85                  |
| 23 05 23 00-0705 EA 3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 2,967.46                  | 355.28                  |
| 23 05 23 00-0706 EA 3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 1,928.71                  | 239.77                  |
| 23 05 23 00-0707 EA 4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 2,719.57                  | 401.96                  |
| 23 05 23 00-0708 EA 6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 4,169.56                  | 507.74                  |
| 23 05 23 00-0709 EA 8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....   | 5,599.44                  | 648.78                  |
| 23 05 23 00-0710 EA 10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....  | 7,917.35                  | 789.81                  |
| <b>23 05 23 00-0711</b>   |                           |                         |
| <b>Read Out Meters</b> (23 05 23 00-0696)   |                           |                         |
| Note: For use with conditioned portable water balancing valves.   |                           |                         |
| 23 05 23 00-0712 EA 0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....   | 1,285.23                  |                         |
| 23 05 23 00-0713 EA 0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....   | 1,739.29                  |                         |
| 23 05 23 00-0714 EA 0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....   | 1,739.29                  |                         |
| 23 05 23 00-0715 EA 0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....  | 1,739.29                  |                         |
| <b>23 05 23 00-0716</b>   |                           |                         |
| <b>Balancing Valves</b> (23 05 23)  |                           |                         |
| <b>23 05 23 00-0717</b>   |                           |                         |
| <b>Balancing Valves With Lever</b> (23 05 23 00-0716)   |                           |                         |
| Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections. |                           |                         |
| 23 05 23 00-0718 EA 1/2" Threaded Balancing Valve With Lever .....  | 282.47                    | 48.25                   |
| 23 05 23 00-0719 EA 3/4" Threaded Balancing Valve With Lever .....  | 319.18                    | 63.57                   |
| 23 05 23 00-0720 EA 1" Threaded Balancing Valve With Lever .....  | 595.84                    | 72.76                   |
| 23 05 23 00-0721 EA 1-1/4" Threaded Balancing Valve With Lever .....  | 647.77                    | 90.38                   |
| 23 05 23 00-0722 EA 1-1/2" Threaded Balancing Valve With Lever .....  | 680.89                    | 95.73                   |
| 23 05 23 00-0723 EA 2" Threaded Balancing Valve With Lever .....  | 831.64                    | 109.52                  |
| 23 05 23 00-0724 EA 2-1/2" Flanged Balancing Valve With Lever .....   | 1,105.66                  | 204.51                  |
| 23 05 23 00-0725 EA 3" Flanged Balancing Valve With Lever .....   | 1,121.31                  | 239.77                  |
| 23 05 23 00-0726 EA 4" Flanged Balancing Valve With Lever .....   | 1,436.92                  | 401.96                  |
| 23 05 23 00-0727 EA 5" Flanged Balancing Valve With Lever .....   | 4,028.39                  | 456.96                  |
| 23 05 23 00-0728 EA 6" Flanged Balancing Valve With Lever .....   | 2,083.43                  | 507.74                  |
| 23 05 23 00-0729 EA 8" Flanged Balancing Valve With Lever .....   | 2,745.98                  | 648.78                  |
| <b>23 05 23 00-0730</b>   |                           |                         |
| <b>Balancing Valves With Nut</b> (23 05 23 00-0716)   |                           |                         |
| Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections. |                           |                         |
| 23 05 23 00-0731 EA 4" Flanged Balancing Valve With Nut .....   | 1,436.92                  | 401.96                  |
| 23 05 23 00-0732 EA 5" Flanged Balancing Valve With Nut .....   | 4,028.39                  | 456.96                  |
| 23 05 23 00-0733 EA 6" Flanged Balancing Valve With Nut .....   | 2,083.43                  | 507.74                  |
| 23 05 23 00-0734 EA 8" Flanged Balancing Valve With Nut .....   | 2,745.98                  | 648.78                  |
| <b>23 05 23 00-0735</b>   |                           |                         |
| <b>Balancing Valves With Hand Wheel</b> (23 05 23 00-0716)  |                           |                         |
| Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections. |                           |                         |
| 23 05 23 00-0736 EA 4" Flanged Balancing Valve With Hand Wheel .....  | 1,908.71                  | 401.96                  |
| 23 05 23 00-0737 EA 5" Flanged Balancing Valve With Hand Wheel .....  | 4,527.14                  | 456.96                  |
| 23 05 23 00-0738 EA 6" Flanged Balancing Valve With Hand Wheel .....  | 2,583.21                  | 507.74                  |
| 23 05 23 00-0739 EA 8" Flanged Balancing Valve With Hand Wheel .....  | 3,632.53                  | 648.78                  |
| 23 05 23 00-0740 EA 10" Flanged Balancing Valve With Hand Wheel .....   | 5,521.63                  | 789.81                  |
| 23 05 23 00-0741 EA 12" Flanged Balancing Valve With Hand Wheel .....   | 7,179.47                  | 615.45                  |
| 23 05 23 00-0742 EA 14" Flanged Balancing Valve With Hand Wheel .....   | 9,349.61                  | 1,160.41                |
| <b>23 05 23 00-0743</b>   |                           |                         |
| <b>Balancing Valves With Chain Wheel</b> (23 05 23 00-0716)   |                           |                         |
| Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections. |                           |                         |
| 23 05 23 00-0744 EA 4" Flanged Balancing Valve With Chain Wheel .....   | 2,179.34                  | 401.96                  |
| 23 05 23 00-0745 EA 5" Flanged Balancing Valve With Chain Wheel .....   | 4,793.62                  | 456.96                  |
| 23 05 23 00-0746 EA 6" Flanged Balancing Valve With Chain Wheel .....   | 2,848.66                  | 507.74                  |
| 23 05 23 00-0747 EA 8" Flanged Balancing Valve With Chain Wheel .....   | 3,959.15                  | 648.78                  |
| 23 05 23 00-0748 EA 10" Flanged Balancing Valve With Chain Wheel .....  | 5,838.93                  | 789.81                  |
| 23 05 23 00-0749 EA 12" Flanged Balancing Valve With Chain Wheel .....  | 7,771.92                  | 615.02                  |
| 23 05 23 00-0750 EA 14" Flanged Balancing Valve With Chain Wheel .....  | 9,885.69                  | 1,160.41                |
| <b>23 05 23 00-0751</b>   |                           |                         |
| <b>Calibrated Balancing Valves</b> (23 05 23 00-0716)   |                           |                         |
| Note: Bell & Gossett CB Series.   |                           |                         |
| 23 05 23 00-0752 EA 1/2" Brazer Or Soldered Calibrated Balancing Valve (CB-1/2S) .....  | 145.36                    | 15.31                   |
| 23 05 23 00-0753 EA 3/4" Brazer Or Soldered Calibrated Balancing Valve (CB-3/4S) .....  | 172.16                    | 16.85                   |
| 23 05 23 00-0754 EA 1" Brazer Or Soldered Calibrated Balancing Valve (CB-1S) .....  | 210.15                    | 19.14                   |
| 23 05 23 00-0755 EA 1-1/4" Brazer Or Soldered Calibrated Balancing Valve (CB-1-1/4S) .....  | 282.03                    | 20.37                   |
| 23 05 23 00-0756 EA 1" Threaded Calibrated Balancing Valve (CB-1) .....   | 223.35                    | 19.14                   |
| 23 05 23 00-0757 EA 1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4) .....   | 304.81                    | 20.37                   |
| 23 05 23 00-0758 EA 1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2) .....   | 354.11                    | 23.59                   |
| 23 05 23 00-0759 EA 2" Threaded Calibrated Balancing Valve (CB-2) .....   | 475.08                    | 27.88                   |
| 23 05 23 00-0760 EA 2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2) .....   | 875.84                    | 40.89                   |
| 23 05 23 00-0761 EA 3" Threaded Calibrated Balancing Valve (CB-3) .....   | 1,225.08                  | 47.48                   |
| 23 05 23 00-0762 EA 2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F) .....   | 1,166.05                  | 222.11                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 23 00-0763 EA 3" Flanged Calibrated Balancing Valve (CB-3F).....  | 1,675.21                  | 260.40                  |
| 23 05 23 00-0764 EA 4" Flanged Calibrated Balancing Valve (CB-4F).....  | 2,627.98                  | 436.55                  |
| 23 05 23 00-0765 EA 5" Flanged Calibrated Balancing Valve (CB-5F).....  | 3,755.79                  | 496.30                  |
| 23 05 23 00-0766 EA 6" Flanged Calibrated Balancing Valve (CB-6F).....  | 4,919.57                  | 551.44                  |
| 23 05 23 00-0767 EA 8" Flanged Calibrated Balancing Valve (CB-8F).....  | 8,821.17                  | 704.62                  |
| 23 05 23 00-0768 EA 10" Flanged Calibrated Balancing Valve (CB-10F).....  | 12,226.45                 | 812.29                  |
| 23 05 23 00-0769 EA 12" Flanged Calibrated Balancing Valve (CB-12F).....  | 25,540.04                 | 986.35                  |
| 23 05 23 00-0770 EA 4" Grooved Calibrated Balancing Valve (CB-4G).....  | 3,018.12                  | 52.72                   |
| 23 05 23 00-0771 EA 5" Grooved Calibrated Balancing Valve (CB-5G).....  | 3,477.18                  | 63.71                   |
| 23 05 23 00-0772 EA 6" Grooved Calibrated Balancing Valve (CB-6G).....  | 4,620.07                  | 81.69                   |
| 23 05 23 00-0773 EA 8" Grooved Calibrated Balancing Valve (CB-8G).....  | 8,634.48                  | 103.68                  |
| 23 05 23 00-0774 EA 10" Grooved Calibrated Balancing Valve (CB-10G).....  | 11,600.94                 | 116.17                  |
| 23 05 23 00-0775 EA 12" Grooved Calibrated Balancing Valve (CB-12G).....  | 23,859.76                 | 141.65                  |
| <br>  |                           |                         |
| <b>23 05 23 00-0776 Butterfly Valves (23 05 23)</b>   |                           |                         |
| <b>23 05 23 00-0777 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves (23 05 23 00-0776)</b>               |                           |                         |
| Note: With on-off handle  |                           |                         |
| 23 05 23 00-0778 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                 | 419.93                    | 204.13                  |
| For 200 PSI, Add  | 79.06                     |                         |
| For 175 PSI, Add  | 28.82                     |                         |
| For Work In Restricted Working Space, Add   | 76.57                     |                         |
| 23 05 23 00-0779 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....             | 430.62                    | 204.42                  |
| For 200 PSI, Add  | 83.66                     |                         |
| For 175 PSI, Add  | 30.50                     |                         |
| For Work In Restricted Working Space, Add   | 76.90                     |                         |
| 23 05 23 00-0780 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                 | 487.66                    | 239.67                  |
| For 200 PSI, Add  | 90.10                     |                         |
| For 175 PSI, Add  | 32.85                     |                         |
| For Work In Restricted Working Space, Add   | 89.99                     |                         |
| 23 05 23 00-0781 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                 | 739.08                    | 401.80                  |
| For 200 PSI, Add  | 113.08                    |                         |
| For 175 PSI, Add  | 41.23                     |                         |
| For Work In Restricted Working Space, Add   | 151.05                    |                         |
| 23 05 23 00-0782 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                 | 899.30                    | 449.69                  |
| For 200 PSI, Add  | 160.88                    |                         |
| For 175 PSI, Add  | 58.65                     |                         |
| For Work In Restricted Working Space, Add   | 169.24                    |                         |
| 23 05 23 00-0783 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                 | 1,034.45                  | 499.66                  |
| For 200 PSI, Add  | 196.74                    |                         |
| For 175 PSI, Add  | 71.73                     |                         |
| For Work In Restricted Working Space, Add   | 187.37                    |                         |
| 23 05 23 00-0784 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                 | 1,330.52                  | 574.61                  |
| For 200 PSI, Add  | 296.03                    |                         |
| For 175 PSI, Add  | 107.93                    |                         |
| For Work In Restricted Working Space, Add   | 214.14                    |                         |
| 23 05 23 00-0785 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                | 2,069.53                  | 699.52                  |
| For 200 PSI, Add  | 573.66                    |                         |
| For 175 PSI, Add  | 209.15                    |                         |
| For Work In Restricted Working Space, Add   | 262.32                    |                         |
| 23 05 23 00-0786 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....                | 2,582.52                  | 849.42                  |
| For 200 PSI, Add  | 730.87                    |                         |
| For 175 PSI, Add  | 266.46                    |                         |
| For Work In Restricted Working Space, Add   | 317.96                    |                         |
| <br>  |                           |                         |
| <b>23 05 23 00-0787 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves (23 05 23 00-0776)</b> |                           |                         |
| 23 05 23 00-0788 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                           | 707.22                    | 204.13                  |
| For Work In Restricted Working Space, Add   | 76.57                     |                         |
| 23 05 23 00-0789 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                       | 712.16                    | 204.42                  |
| For Work In Restricted Working Space, Add   | 76.90                     |                         |
| 23 05 23 00-0790 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                           | 778.78                    | 239.67                  |
| For Work In Restricted Working Space, Add   | 89.99                     |                         |
| 23 05 23 00-0791 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                           | 1,043.61                  | 401.80                  |
| For Work In Restricted Working Space, Add   | 151.05                    |                         |
| 23 05 23 00-0792 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                           | 1,236.39                  | 449.69                  |
| For Work In Restricted Working Space, Add   | 169.24                    |                         |
| 23 05 23 00-0793 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                           | 1,369.51                  | 499.66                  |
| For Work In Restricted Working Space, Add   | 187.37                    |                         |
| 23 05 23 00-0794 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                           | 1,679.10                  | 574.61                  |
| For Work In Restricted Working Space, Add   | 214.14                    |                         |
| 23 05 23 00-0795 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                          | 2,121.24                  | 699.52                  |
| For Work In Restricted Working Space, Add   | 262.32                    |                         |
| 23 05 23 00-0796 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....                          | 2,871.73                  | 849.42                  |
| For Work In Restricted Working Space, Add   | 317.96                    |                         |
| <br>  |                           |                         |
| <b>23 05 23 00-0797 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves (23 05 23 00-0776)</b> |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 23 00-0798 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 4,653.37                  | 1,064.26                |
| For 200 PSI, Add   | 1,164.37                  |                         |
| For 175 PSI, Add   | 404.30                    |                         |
| For Work In Restricted Working Space, Add  | 425.70                    |                         |
| 23 05 23 00-0799 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 5,906.23                  | 1,248.73                |
| For 200 PSI, Add   | 1,564.32                  |                         |
| For 175 PSI, Add   | 543.17                    |                         |
| For Work In Restricted Working Space, Add  | 468.27                    |                         |
| 23 05 23 00-0800 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 8,190.40                  | 1,390.63                |
| For 200 PSI, Add   | 2,324.18                  |                         |
| For 175 PSI, Add   | 807.01                    |                         |
| For Work In Restricted Working Space, Add  | 520.30                    |                         |
| 23 05 23 00-0801 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 10,490.06                 | 1,560.91                |
| For 200 PSI, Add   | 3,074.01                  |                         |
| For 175 PSI, Add   | 1,067.37                  |                         |
| For Work In Restricted Working Space, Add  | 585.34                    |                         |
| 23 05 23 00-0802 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 14,060.63                 | 1,915.67                |
| For 200 PSI, Add   | 4,197.32                  |                         |
| For 175 PSI, Add   | 1,457.40                  |                         |
| For Work In Restricted Working Space, Add  | 720.42                    |                         |
| 23 05 23 00-0803 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 28,924.09                 | 3,061.64                |
| For 200 PSI, Add   | 9,009.89                  |                         |
| For 175 PSI, Add   | 3,128.43                  |                         |
| For Work In Restricted Working Space, Add  | 1,168.99                  |                         |
| 23 05 23 00-0804 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 36,669.84                 | 4,174.96                |
| For 200 PSI, Add   | 11,447.66                 |                         |
| For 175 PSI, Add   | 3,974.88                  |                         |
| For Work In Restricted Working Space, Add  | 1,461.23                  |                         |
| 23 05 23 00-0805 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 44,607.03                 | 6,123.27                |
| For 200 PSI, Add   | 13,360.87                 |                         |
| For 175 PSI, Add   | 4,639.19                  |                         |
| For Work In Restricted Working Space, Add  | 2,248.05                  |                         |
| 23 05 23 00-0806 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 54,261.68                 | 7,654.09                |
| For 200 PSI, Add   | 16,027.24                 |                         |
| For 175 PSI, Add   | 5,565.01                  |                         |
| For Work In Restricted Working Space, Add  | 2,922.47                  |                         |
| 23 05 23 00-0807 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....   | 65,565.17                 | 9,184.91                |
| For 200 PSI, Add   | 19,219.76                 |                         |
| For 175 PSI, Add   | 6,673.53                  |                         |
| For Work In Restricted Working Space, Add  | 3,653.09                  |                         |
| <b>23 05 23 00-0808 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB</b> <small>(23 05 23 00-0776)</small>                         |                           |                         |
| Note: (Milwaukee Valve Company BB-SC 100)  |                           |                         |
| 23 05 23 00-0809 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....   | 538.18                    | 19.14                   |
| For Work In Restricted Working Space, Add  | 24.18                     |                         |
| 23 05 23 00-0810 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....   | 588.60                    | 20.37                   |
| For Work In Restricted Working Space, Add  | 30.63                     |                         |
| 23 05 23 00-0811 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....   | 736.55                    | 23.58                   |
| For Work In Restricted Working Space, Add  | 35.34                     |                         |
| 23 05 23 00-0812 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....   | 922.20                    | 27.87                   |
| For Work In Restricted Working Space, Add  | 41.76                     |                         |
| 23 05 23 00-0813 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....   | 1,237.77                  | 37.64                   |
| For Work In Restricted Working Space, Add  | 56.39                     |                         |
| <b>23 05 23 00-0814 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With<br/>Tamper Switch, 175 LB</b> <small>(23 05 23 00-0776)</small> |                           |                         |
| Note: (Milwaukee Valve Company BB-S02)   |                           |                         |
| 23 05 23 00-0815 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....                                    | 804.58                    | 19.14                   |
| For Work In Restricted Working Space, Add  | 24.18                     |                         |
| 23 05 23 00-0816 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....                                | 872.13                    | 20.37                   |
| For Work In Restricted Working Space, Add  | 30.63                     |                         |
| 23 05 23 00-0817 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....                                | 1,042.72                  | 23.58                   |
| For Work In Restricted Working Space, Add  | 35.34                     |                         |
| 23 05 23 00-0818 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....                                    | 1,248.31                  | 27.87                   |
| For Work In Restricted Working Space, Add  | 41.76                     |                         |
| 23 05 23 00-0819 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....                                | 1,598.39                  | 37.64                   |
| For Work In Restricted Working Space, Add  | 56.39                     |                         |
| <b>23 05 29 Hangers and Supports for HVAC Piping and Equipment</b> <small>(23 05)</small>  |                           |                         |
| 23 05 29 00-0001 Hangers And Supports <small>(23 05 29)</small>  |                           |                         |
| 23 05 29 00-0002 Clevis Hangers <small>(23 05 29 00-0001)</small>  |                           |                         |
| 23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) <small>(23 05 29 00-0002)</small>   |                           |                         |
| Note: Type 1.  |                           |                         |
| 23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100).....  | 27.28                     | 12.69                   |
| For Work In Restricted Working Space, Add  | 7.61                      |                         |
| 23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100).....  | 30.10                     | 14.10                   |
| For Work In Restricted Working Space, Add  | 8.46                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100).....  | 31.66                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.90                      |                         |
| 23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100).....  | 32.77                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100).....  | 33.02                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100).....  | 34.34                     | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.40                      |                         |
| 23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100).....  | 37.12                     | 16.07                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.67                      |                         |
| 23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100).....  | 39.31                     | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.95                      |                         |
| 23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100).....  | 41.27                     | 18.58                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.62                     |                         |
| 23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100).....  | 44.99                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.28                     |                         |
| 23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100).....  | 57.46                     | 23.61                   |
| <i>For Work In Restricted Working Space, Add</i>   | 14.17                     |                         |
| 23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100).....  | 69.02                     | 28.20                   |
| <i>For Work In Restricted Working Space, Add</i>   | 16.92                     |                         |
| 23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100).....  | 91.41                     | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 21.15                     |                         |
| 23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100).....   | 131.28                    | 47.94                   |
| <i>For Work In Restricted Working Space, Add</i>   | 28.20                     |                         |
| 23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100).....   | 152.71                    | 52.86                   |
| <i>For Work In Restricted Working Space, Add</i>   | 31.72                     |                         |
| 23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100).....   | 187.41                    | 59.21                   |
| <i>For Work In Restricted Working Space, Add</i>   | 36.37                     |                         |
| 23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100).....   | 230.80                    | 70.49                   |
| <i>For Work In Restricted Working Space, Add</i>   | 42.29                     |                         |
| 23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100).....   | 287.79                    | 88.11                   |
| <i>For Work In Restricted Working Space, Add</i>   | 52.87                     |                         |
| 23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100).....   | 445.90                    | 105.74                  |
| <i>For Work In Restricted Working Space, Add</i>   | 63.44                     |                         |
| 23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100).....   | 660.81                    | 123.35                  |
| <i>For Work In Restricted Working Space, Add</i>   | 74.02                     |                         |
| <b>23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <small>(23 05 29 00-0002)</small></b> |                           |                         |
| 23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                             | 32.34                     | 12.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.61                      |                         |
| 23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                             | 35.16                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.46                      |                         |
| 23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 36.82                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.90                      |                         |
| 23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                           | 38.05                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                           | 38.69                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 39.69                     | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.40                      |                         |
| 23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                           | 43.65                     | 16.07                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.67                      |                         |
| 23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 45.62                     | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.95                      |                         |
| 23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                           | 51.27                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.28                     |                         |
| 23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 55.54                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.28                     |                         |
| 23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 87.20                     | 23.61                   |
| <i>For Work In Restricted Working Space, Add</i>   | 14.17                     |                         |
| 23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 107.49                    | 28.20                   |
| <i>For Work In Restricted Working Space, Add</i>   | 16.92                     |                         |
| 23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....                               | 128.91                    | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 21.15                     |                         |
| <b>23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <small>(23 05 29 00-0002)</small></b>      |                           |                         |
| 23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                  | 27.10                     | 12.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.61                      |                         |
| 23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                  | 29.96                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.46                      |                         |
| 23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                    | 31.62                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.90                      |                         |
| 23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                | 32.49                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                | 32.63                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                    | 33.55                     | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.40                      |                         |
| 23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                | 36.08                     | 16.07                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.67                      |                         |
| 23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....                                    | 37.55                     | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.95                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....<br><i>For Work In Restricted Working Space, Add</i>  | 42.38<br>11.28                | 19.74                   |
| 23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....<br><i>For Work In Restricted Working Space, Add</i>  | 43.38<br>11.28                | 19.74                   |
| <b>23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)</b>  |                               |                         |
| 23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 36.28<br>8.46                 | 14.10                   |
| 23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 37.83<br>8.90                 | 14.10                   |
| 23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 38.66<br>9.15                 | 15.25                   |
| 23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 39.66<br>9.15                 | 15.25                   |
| 23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 42.17<br>9.40                 | 15.51                   |
| 23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 44.84<br>9.67                 | 16.07                   |
| 23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 46.88<br>9.95                 | 16.91                   |
| 23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 55.68<br>11.28                | 19.74                   |
| 23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 70.20<br>14.17                | 23.61                   |
| 23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 86.10<br>16.92                | 28.20                   |
| 23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>   | 119.43<br>21.15               | 35.25                   |
| 23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>  | 166.37<br>28.20               | 47.94                   |
| 23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108).....<br><i>For Work In Restricted Working Space, Add</i>  | 186.91<br>31.72               | 52.86                   |
| <b>23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)</b>   |                               |                         |
| 23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 43.35<br>9.40                 | 15.51                   |
| 23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 45.95<br>9.67                 | 16.07                   |
| 23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 48.14<br>9.95                 | 16.91                   |
| 23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 53.53<br>11.28                | 19.74                   |
| 23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 56.04<br>11.28                | 19.74                   |
| 23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 69.73<br>14.17                | 23.61                   |
| 23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 81.72<br>16.92                | 28.20                   |
| 23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....<br><i>For Work In Restricted Working Space, Add</i>  | 107.31<br>21.15               | 35.25                   |
| <b>23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)</b>  |                               |                         |
| <b>23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072)</b><br>Note: Type 5.  |                               |                         |
| 23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 24.70<br>6.68                 | 11.14                   |
| 23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 27.15<br>7.41                 | 12.35                   |
| 23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 29.87<br>8.24                 | 13.73                   |
| 23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 33.01<br>9.15                 | 15.25                   |
| 23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 34.69<br>9.61                 | 16.01                   |
| 23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 36.96<br>10.07                | 16.78                   |
| 23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 41.61<br>10.52                | 17.54                   |
| 23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 43.46<br>10.98                | 18.30                   |
| 23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....<br><i>For Work In Restricted Working Space, Add</i>  | 51.16<br>12.35                | 20.59                   |
| <b>23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072)</b><br>Note: Type 10.  |                               |                         |
| 23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....<br><i>For Work In Restricted Working Space, Add</i><br><i>For 304 Stainless Steel, Add</i><br><i>For 316 Stainless Steel, Add</i> | 29.32<br>8.46<br>7.39<br>9.52 | 14.10                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                        | 30.90                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.90                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 8.05                      |                         |
| <i>For 316 Stainless Steel, Add</i>   | 10.37                     |                         |
| 23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 32.55                     | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.40                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 8.05                      |                         |
| <i>For 316 Stainless Steel, Add</i>   | 10.37                     |                         |
| 23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                      | 34.53                     | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.95                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 8.98                      |                         |
| <i>For 316 Stainless Steel, Add</i>   | 11.56                     |                         |
| 23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                      | 38.96                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.28                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 8.98                      |                         |
| <i>For 316 Stainless Steel, Add</i>   | 11.56                     |                         |
| 23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 41.72                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.08                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 9.50                      |                         |
| <i>For 316 Stainless Steel, Add</i>   | 12.24                     |                         |
| 23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                      | 45.72                     | 21.15                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.01                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 15.44                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 19.89                     |                         |
| 23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 49.43                     | 23.96                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.10                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 16.10                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 20.74                     |                         |
| 23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                      | 54.73                     | 25.73                   |
| <i>For Work In Restricted Working Space, Add</i>  | 15.44                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 21.58                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 27.80                     |                         |
| 23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 59.66                     | 28.20                   |
| <i>For Work In Restricted Working Space, Add</i>  | 16.92                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 21.58                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 27.80                     |                         |
| 23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 70.22                     | 31.72                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.03                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 44.75                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 57.63                     |                         |
| 23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 77.38                     | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 45.47                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 58.57                     |                         |
| 23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....                          | 92.77                     | 42.29                   |
| <i>For Work In Restricted Working Space, Add</i>  | 25.38                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 53.99                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 69.53                     |                         |
| <b>23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)</b> |                           |                         |
| 23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....              | 31.77                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.46                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 23.56                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 30.35                     |                         |
| 23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....              | 33.25                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.90                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 23.56                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 30.35                     |                         |
| 23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....                | 34.90                     | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.40                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 23.56                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 30.35                     |                         |
| 23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....            | 36.74                     | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.95                      |                         |
| <i>For 304 Stainless Steel, Add</i>   | 23.56                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 30.35                     |                         |
| 23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....            | 41.47                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.28                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 25.54                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 32.90                     |                         |
| 23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....                | 44.15                     | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.08                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 25.54                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 32.90                     |                         |
| 23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....            | 53.54                     | 21.15                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.01                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 67.06                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 86.36                     |                         |
| 23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....                | 59.58                     | 23.96                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.10                     |                         |
| <i>For 304 Stainless Steel, Add</i>   | 83.09                     |                         |
| <i>For 316 Stainless Steel, Add</i>   | 107.02                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....     | 65.04                     | 25.73                   |
| For Work In Restricted Working Space, Add  | 15.44                     |                         |
| For 304 Stainless Steel, Add   | 89.63                     |                         |
| For 316 Stainless Steel, Add   | 115.43                    |                         |
| 23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....         | 72.92                     | 28.20                   |
| For Work In Restricted Working Space, Add  | 16.92                     |                         |
| For 304 Stainless Steel, Add   | 109.10                    |                         |
| For 316 Stainless Steel, Add   | 140.51                    |                         |
| 23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....         | 80.20                     | 31.72                   |
| For Work In Restricted Working Space, Add  | 19.03                     |                         |
| For 304 Stainless Steel, Add   | 110.62                    |                         |
| For 316 Stainless Steel, Add   | 142.46                    |                         |
| 23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....         | 94.76                     | 35.25                   |
| For Work In Restricted Working Space, Add  | 21.15                     |                         |
| For 304 Stainless Steel, Add   | 160.18                    |                         |
| For 316 Stainless Steel, Add   | 206.30                    |                         |
| <b>23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)</b>  |                           |                         |
| <b>23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)</b>                |                           |                         |
| Note: Excludes rod and nuts. Type 41.  |                           |                         |
| 23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114).....                               | 38.39                     | 11.29                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 6.77                      |                         |
| 23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114).....                           | 42.40                     | 12.70                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 7.62                      |                         |
| 23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114).....                               | 47.56                     | 14.81                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 8.89                      |                         |
| 23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114).....                           | 54.66                     | 16.92                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 10.16                     |                         |
| 23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114).....                               | 73.14                     | 19.04                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 11.42                     |                         |
| 23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114).....                               | 67.57                     | 21.16                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 12.69                     |                         |
| 23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114).....                               | 83.57                     | 25.39                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 15.23                     |                         |
| 23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114).....                               | 110.11                    | 29.62                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 17.77                     |                         |
| 23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114).....                              | 130.63                    | 35.26                   |
| Note: Excludes rod and nuts.   |                           |                         |
| For Work In Restricted Working Space, Add  | 21.16                     |                         |
| <b>23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110)</b> |                           |                         |
| Note: Type 43.   |                           |                         |
| 23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                     | 58.49                     | 19.91                   |
| For Work In Restricted Working Space, Add  | 11.49                     |                         |
| For 304 Stainless Steel, Add   | 133.32                    |                         |
| For 316 Stainless Steel, Add   | 171.70                    |                         |
| 23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                 | 61.26                     | 20.52                   |
| For Work In Restricted Working Space, Add  | 12.32                     |                         |
| For 304 Stainless Steel, Add   | 133.32                    |                         |
| For 316 Stainless Steel, Add   | 171.70                    |                         |
| 23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                     | 66.30                     | 21.45                   |
| For Work In Restricted Working Space, Add  | 13.13                     |                         |
| For 304 Stainless Steel, Add   | 148.70                    |                         |
| For 316 Stainless Steel, Add   | 191.51                    |                         |
| 23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                 | 75.95                     | 22.98                   |
| For Work In Restricted Working Space, Add  | 13.79                     |                         |
| For 304 Stainless Steel, Add   | 198.00                    |                         |
| For 316 Stainless Steel, Add   | 255.00                    |                         |
| 23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                     | 81.06                     | 26.04                   |
| For Work In Restricted Working Space, Add  | 15.32                     |                         |
| For 304 Stainless Steel, Add   | 198.00                    |                         |
| For 316 Stainless Steel, Add   | 255.00                    |                         |
| 23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                     | 91.09                     | 28.03                   |
| For Work In Restricted Working Space, Add  | 16.82                     |                         |
| For 304 Stainless Steel, Add   | 231.13                    |                         |
| For 316 Stainless Steel, Add   | 297.67                    |                         |
| 23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                     | 104.77                    | 30.64                   |
| For Work In Restricted Working Space, Add  | 18.38                     |                         |
| For 304 Stainless Steel, Add   | 287.03                    |                         |
| For 316 Stainless Steel, Add   | 369.67                    |                         |
| 23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110).....                     | 141.68                    | 38.29                   |
| For Work In Restricted Working Space, Add  | 22.98                     |                         |
| For 304 Stainless Steel, Add   | 429.59                    |                         |
| For 316 Stainless Steel, Add   | 553.27                    |                         |



|  |           |
|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>           | <b>23</b> |
| <b>Common Work Results for HVAC 23 05</b>                          |           |
| <b>Hangers and Supports for HVAC Piping and Equipment 23 05 29</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110).....<br><i>For Work In Restricted Working Space, Add</i>                 | 179.67<br>30.64           | 52.08                   |
|   | 511.83                    |                         |
|   | 659.18                    |                         |
| 23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110).....<br><i>For Work In Restricted Working Space, Add</i>                 | 228.88<br>34.46           | 57.45                   |
|   | 752.40                    |                         |
|   | 969.00                    |                         |
| 23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110).....<br><i>For Work In Restricted Working Space, Add</i>                 | 447.64<br>39.52           | 65.87                   |
|   | 2,085.01                  |                         |
|   | 2,685.24                  |                         |
| 23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110).....<br><i>For Work In Restricted Working Space, Add</i>                 | 558.70<br>45.95           | 76.59                   |
|   | 2,676.43                  |                         |
|   | 3,446.92                  |                         |
| <br>  |                           |                         |
| <b>23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)</b>   |                           |                         |
| 23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                          | 57.16<br>11.49            | 19.91                   |
| 23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                      | 61.55<br>12.32            | 20.52                   |
| 23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                          | 64.73<br>13.13            | 21.45                   |
| 23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                      | 72.65<br>13.79            | 22.98                   |
| 23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                          | 80.91<br>15.32            | 26.04                   |
| 23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                          | 88.51<br>16.82            | 28.03                   |
| 23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                          | 106.46<br>18.38           | 30.64                   |
| 23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                          | 137.66<br>22.98           | 38.29                   |
| 23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                         | 178.73<br>30.64           | 52.08                   |
| 23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                         | 226.44<br>34.46           | 57.45                   |
| 23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                         | 248.75<br>39.52           | 65.87                   |
| 23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                         | 298.43<br>45.95           | 76.59                   |
| 23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                         | 398.30<br>57.44           | 95.73                   |
| 23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120).....<br><i>For Work In Restricted Working Space, Add</i>                         | 490.96<br>68.93           | 114.88                  |
| <br>  |                           |                         |
| <b>23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)</b>  |                           |                         |
| 23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>             | 63.37<br>11.49            | 19.91                   |
| 23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>         | 70.74<br>12.32            | 20.52                   |
| 23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>             | 74.52<br>13.13            | 21.45                   |
| 23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>         | 78.64<br>13.79            | 22.98                   |
| 23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>             | 93.47<br>15.32            | 26.04                   |
| 23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>             | 105.52<br>16.82           | 28.03                   |
| 23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>             | 121.82<br>18.38           | 30.64                   |
| 23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>             | 169.28<br>22.98           | 38.29                   |
| 23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>            | 212.82<br>30.64           | 52.08                   |
| 23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>            | 245.32<br>34.46           | 57.45                   |
| 23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>            | 339.10<br>39.52           | 65.87                   |
| 23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>            | 405.29<br>45.95           | 76.59                   |
| 23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122).....<br><i>For Work In Restricted Working Space, Add</i>            | 464.79<br>57.44           | 95.73                   |
| <br>  |                           |                         |
| <b>23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)</b>  |                           |                         |
| 23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....<br><i>For Work In Restricted Working Space, Add</i>     | 63.73<br>11.49            | 19.91                   |
| 23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....<br><i>For Work In Restricted Working Space, Add</i> | 71.06<br>12.32            | 20.52                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>     | 75.06<br>13.13            | 21.45                   |
| 23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i> | 78.17<br>13.79            | 22.98                   |
| 23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>     | 97.10<br>15.32            | 26.04                   |
| 23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>     | 109.79<br>16.82           | 28.03                   |
| 23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>     | 126.91<br>18.38           | 30.64                   |
| 23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>     | 177.17<br>22.98           | 38.29                   |
| 23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>    | 222.29<br>30.64           | 52.08                   |
| 23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>    | 256.40<br>34.46           | 57.45                   |
| 23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) .....<br><i>For Work In Restricted Working Space, Add</i>    | 356.83<br>39.52           | 65.87                   |
| <b>23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)</b><br>Note: Includes bolts and weldless eye nuts.                                    |                           |                         |
| <b>23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175)</b><br>Note: Type 4.   |                           |                         |
| 23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                          | 23.00<br>5.49             | 9.15                    |
| 23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                          | 23.31<br>5.58             | 9.30                    |
| 23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 23.65<br>5.67             | 9.45                    |
| 23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                        | 25.38<br>5.76             | 9.61                    |
| 23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                        | 25.69<br>5.86             | 9.76                    |
| 23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 27.08<br>5.95             | 9.91                    |
| 23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                        | 28.12<br>6.13             | 10.21                   |
| 23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 29.63<br>6.32             | 10.52                   |
| 23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                        | 33.48<br>6.41             | 10.68                   |
| 23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 39.58<br>8.24             | 13.73                   |
| 23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 55.98<br>10.98            | 18.30                   |
| 23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 75.46<br>13.73            | 22.88                   |
| 23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                            | 88.69<br>16.01            | 26.69                   |
| 23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 124.66<br>18.30           | 30.50                   |
| 23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 165.56<br>20.13           | 33.55                   |
| 23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 258.01<br>21.96           | 36.60                   |
| 23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 279.65<br>23.79           | 39.65                   |
| 23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 442.30<br>25.62           | 42.70                   |
| 23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 509.47<br>27.45           | 45.75                   |
| 23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) .....<br><i>For Work In Restricted Working Space, Add</i>                           | 658.86<br>30.20           | 50.33                   |
| <b>23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)</b>   |                           |                         |
| 23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>        | 42.15<br>5.87             | 9.86                    |
| 23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>        | 53.74<br>5.87             | 9.86                    |
| 23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>        | 58.71<br>6.13             | 10.22                   |
| 23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>        | 90.75<br>6.38             | 10.57                   |
| 23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>        | 98.57<br>6.76             | 11.28                   |
| 23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>       | 164.50<br>6.74            | 11.28                   |
| 23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>       | 263.29<br>7.61            | 12.69                   |
| 23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) .....<br><i>For Work In Restricted Working Space, Add</i>       | 332.99<br>8.46            | 14.10                   |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '16" Two Bolt Steel Heavy Duty Pipe Clamp', 'Steel Riser Clamp (Cooper B-Line B3373)', and 'Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)'. Includes sub-sections for Type 8 and Type 42.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....                          | 464.76                    | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.15                     |                         |
| 23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....                          | 553.57                    | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.84                     |                         |
| 23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....                          | 802.41                    | 21.15                   |
| <i>For Work In Restricted Working Space, Add</i>   | 12.69                     |                         |
| 23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....                          | 1,102.48                  | 22.56                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.53                     |                         |
| <b>23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)</b>           |                           |                         |
| 23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                          | 72.33                     | 9.86                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.87                      |                         |
| 23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                          | 78.05                     | 10.57                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.38                      |                         |
| 23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                          | 132.55                    | 11.28                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.76                      |                         |
| 23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 146.71                    | 11.28                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.74                      |                         |
| 23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 208.86                    | 12.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.61                      |                         |
| 23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 317.46                    | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.46                      |                         |
| 23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 424.79                    | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.15                     |                         |
| 23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 505.37                    | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.84                     |                         |
| 23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 734.73                    | 21.15                   |
| <i>For Work In Restricted Working Space, Add</i>   | 12.69                     |                         |
| 23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....                         | 1,002.29                  | 22.56                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.53                     |                         |
| <b>23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)</b>                                       |                           |                         |
| <b>23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260)</b>         |                           |                         |
| Note: Type 6.  |                           |                         |
| 23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171).....                                   | 37.24                     | 12.96                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.78                      |                         |
| 23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171).....                                     | 39.43                     | 13.73                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.24                      |                         |
| 23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171).....                                 | 43.06                     | 15.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.15                      |                         |
| 23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171).....                                 | 46.17                     | 16.01                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.61                      |                         |
| 23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171).....                                     | 49.59                     | 16.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.07                     |                         |
| 23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171).....                                 | 59.52                     | 17.54                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.52                     |                         |
| 23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171).....                                     | 64.80                     | 18.30                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.98                     |                         |
| 23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171).....                                     | 84.21                     | 20.59                   |
| <i>For Work In Restricted Working Space, Add</i>   | 12.35                     |                         |
| 23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171).....                                     | 106.93                    | 25.93                   |
| <i>For Work In Restricted Working Space, Add</i>   | 15.56                     |                         |
| 23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171).....                                     | 140.73                    | 30.50                   |
| <i>For Work In Restricted Working Space, Add</i>   | 18.30                     |                         |
| <b>23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260)</b> |                           |                         |
| Note: Type 11.   |                           |                         |
| 23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....              | 25.53                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.56                      |                         |
| 23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....              | 26.88                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.86                      |                         |
| 23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....                | 29.68                     | 13.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.66                      |                         |
| 23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....            | 32.04                     | 13.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.06                      |                         |
| 23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....            | 35.20                     | 13.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.35                      |                         |
| 23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....                | 40.64                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....            | 51.90                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.57                      |                         |
| 23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....                | 57.12                     | 16.85                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.99                      |                         |
| 23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....                | 61.08                     | 18.38                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.94                     |                         |
| <b>23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260)</b>          |                           |                         |
| Note: Type 12.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 25.53                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.56                      |                         |
| 23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 26.88                     | 11.49                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.86                      |                         |
| 23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 29.68                     | 13.02                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.66                      |                         |
| 23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 32.04                     | 13.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.06                      |                         |
| 23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 35.20                     | 13.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.35                      |                         |
| 23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 40.64                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 51.90                     | 16.08                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.57                      |                         |
| 23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....   | 57.12                     | 16.85                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.99                      |                         |
| <b>23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)</b>   |                           |                         |
| <b>23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180)<sup>(23</sup></b>                                  |                           |                         |
| <small>05 29 00-0291)</small>  |                           |                         |
| 23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 17.48                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.59                      |                         |
| 23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 18.29                     | 9.19                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.84                      |                         |
| 23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 19.19                     | 9.19                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.11                      |                         |
| 23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 20.28                     | 9.19                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.40                      |                         |
| 23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 21.48                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 5.74                      |                         |
| 23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 24.27                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.13                      |                         |
| 23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 28.83                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.56                      |                         |
| 23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 35.74                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.07                      |                         |
| 23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 42.23                     | 13.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.27                      |                         |
| 23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 50.84                     | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....  | 62.15                     | 16.85                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.10                     |                         |
| <b>23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)</b>  |                           |                         |
| 23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap .....   | 8.30                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.30                      |                         |
| 23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap .....   | 8.79                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.41                      |                         |
| 23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap .....   | 9.73                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.53                      |                         |
| 23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap .....   | 10.71                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.64                      |                         |
| 23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap .....   | 11.45                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.76                      |                         |
| 23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap .....   | 12.42                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.99                      |                         |
| <b>23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)</b>   |                           |                         |
| 23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....  | 3.51                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 0.77                      |                         |
| 23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....  | 4.10                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 0.82                      |                         |
| 23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....  | 4.41                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 0.89                      |                         |
| 23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole .....  | 4.74                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 0.96                      |                         |
| 23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole .....  | 5.11                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 1.04                      |                         |
| 23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole .....  | 5.69                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 1.15                      |                         |
| <b>23 05 29 00-0318 Pipe and Equipment Support Brackets (23 05 29 00-0001)</b>   |                           |                         |
| <b>23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-<br/>Line B3068)<sup>(23 05 29 00-0318)</sup></b> |                           |                         |
| <small>Note: Up to 750# load.</small>  |                           |                         |
| 23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....  | 130.84                    | 16.91                   |
| <i>For Galvanized, Add</i>   | 19.40                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.15                     |                         |

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 29 Hangers and Supports for HVAC Piping and Equipment



| MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|---|-----|-----|---|--------------------------|----------------------|
| 23 05 29 00-0321  | EA  |     | 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....<br><i>For Galvanized, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 132.61<br>19.75<br>10.15 | 16.91                |
| 23 05 29 00-0322  | EA  |     | 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....<br><i>For Galvanized, Add</i><br><i>For Work In Restricted Working Space, Add</i>           | 139.63<br>21.16<br>10.15 | 16.91                |
| <b>23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0318)</b><br>Note: Up to 1500# load. |     |     |   |                          |                      |
| 23 05 29 00-0324  | EA  |     | 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....<br><i>For Galvanized, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 302.23<br>53.68<br>10.15 | 16.91                |
| 23 05 29 00-0325  | EA  |     | 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....<br><i>For Galvanized, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 352.69<br>63.77<br>10.15 | 16.91                |
| 23 05 29 00-0326  | EA  |     | 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....<br><i>For Galvanized, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 455.57<br>84.35<br>10.15 | 16.91                |
| <b>23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)</b>   |     |     |   |                          |                      |
| <b>23 05 29 00-0328 Pipe Alignment Guide, 1" Insulation (23 05 29 00-0327)</b>  |     |     |   |                          |                      |
| 23 05 29 00-0329  | EA  |     | 1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2).....  | 882.46                   | 26.79                |
| 23 05 29 00-0330  | EA  |     | 3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4).....  | 883.86                   | 27.49                |
| 23 05 29 00-0331  | EA  |     | 1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1).....  | 885.27                   | 28.20                |
| 23 05 29 00-0332  | EA  |     | 1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4).....  | 886.68                   | 28.90                |
| 23 05 29 00-0333  | EA  |     | 1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....  | 968.83                   | 29.60                |
| 23 05 29 00-0334  | EA  |     | 2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....  | 987.03                   | 32.43                |
| 23 05 29 00-0335  | EA  |     | 2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....  | 989.14                   | 33.49                |
| 23 05 29 00-0336  | EA  |     | 3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....  | 991.26                   | 34.54                |
| 23 05 29 00-0337  | EA  |     | 4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....  | 1,049.05                 | 36.65                |
| 23 05 29 00-0338  | EA  |     | 5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....  | 1,220.82                 | 46.53                |
| 23 05 29 00-0339  | EA  |     | 6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....  | 1,240.56                 | 56.39                |
| 23 05 29 00-0340  | EA  |     | 8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....  | 1,393.54                 | 70.49                |
| 23 05 29 00-0341  | EA  |     | 10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....  | 2,607.39                 | 84.59                |
| 23 05 29 00-0342  | EA  |     | 12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....  | 3,978.94                 | 112.79               |
| 23 05 29 00-0343  | EA  |     | 14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....  | 4,894.85                 | 140.98               |
| 23 05 29 00-0344  | EA  |     | 16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....  | 5,897.52                 | 157.90               |
| 23 05 29 00-0345  | EA  |     | 18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....  | 6,356.98                 | 176.23               |
| 23 05 29 00-0346  | EA  |     | 20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....  | 6,746.37                 | 201.60               |
| 23 05 29 00-0347  | EA  |     | 24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....  | 8,528.79                 | 211.47               |
| <b>23 05 29 00-0348 Pipe Alignment Guide, 1-1/2" Insulation (23 05 29 00-0327)</b>  |     |     |   |                          |                      |
| 23 05 29 00-0349  | EA  |     | 1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....  | 883.86                   | 27.49                |
| 23 05 29 00-0350  | EA  |     | 3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....  | 966.01                   | 28.20                |
| 23 05 29 00-0351  | EA  |     | 1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....  | 967.42                   | 28.90                |
| 23 05 29 00-0352  | EA  |     | 1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....  | 968.83                   | 29.60                |
| 23 05 29 00-0353  | EA  |     | 1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....  | 970.25                   | 30.31                |
| 23 05 29 00-0354  | EA  |     | 2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....  | 988.44                   | 33.13                |
| 23 05 29 00-0355  | EA  |     | 2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....  | 990.56                   | 34.19                |
| 23 05 29 00-0356  | EA  |     | 3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....  | 1,046.23                 | 35.25                |
| 23 05 29 00-0357  | EA  |     | 4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....  | 1,050.46                 | 37.36                |
| 23 05 29 00-0358  | EA  |     | 5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....  | 1,222.93                 | 47.58                |
| 23 05 29 00-0359  | EA  |     | 6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....  | 1,243.37                 | 57.80                |
| 23 05 29 00-0360  | EA  |     | 8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....  | 1,397.06                 | 72.25                |
| 23 05 29 00-0361  | EA  |     | 10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....  | 2,611.61                 | 86.70                |
| 23 05 29 00-0362  | EA  |     | 12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....  | 3,984.58                 | 115.60               |
| 23 05 29 00-0363  | EA  |     | 14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....  | 4,901.90                 | 144.50               |
| 23 05 29 00-0364  | EA  |     | 16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....  | 5,905.98                 | 162.13               |
| 23 05 29 00-0365  | EA  |     | 18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....  | 6,365.44                 | 180.45               |
| 23 05 29 00-0366  | EA  |     | 20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....  | 6,756.23                 | 206.54               |
| 23 05 29 00-0367  | EA  |     | 24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....  | 8,539.36                 | 216.76               |
| <b>23 05 29 00-0368 Pipe Alignment Guide, 2" Insulation (23 05 29 00-0327)</b>  |     |     |   |                          |                      |
| 23 05 29 00-0369  | EA  |     | 1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....  | 966.01                   | 28.20                |
| 23 05 29 00-0370  | EA  |     | 3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....  | 979.98                   | 28.90                |
| 23 05 29 00-0371  | EA  |     | 1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....  | 981.39                   | 29.60                |
| 23 05 29 00-0372  | EA  |     | 1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....  | 982.81                   | 30.31                |
| 23 05 29 00-0373  | EA  |     | 1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....  | 984.21                   | 31.01                |
| 23 05 29 00-0374  | EA  |     | 2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2).....  | 1,043.42                 | 33.84                |
| 23 05 29 00-0375  | EA  |     | 2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2).....  | 1,046.23                 | 35.25                |
| 23 05 29 00-0376  | EA  |     | 3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3).....  | 1,047.99                 | 36.13                |
| 23 05 29 00-0377  | EA  |     | 4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4).....  | 1,203.90                 | 38.06                |
| 23 05 29 00-0378  | EA  |     | 5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5).....  | 1,225.05                 | 48.64                |
| 23 05 29 00-0379  | EA  |     | 6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6).....  | 1,370.99                 | 59.21                |
| 23 05 29 00-0380  | EA  |     | 8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8).....  | 1,538.81                 | 74.01                |



| MINOR  |     |  | TOTAL DIRECT | DEMOLITION |
|--|-----|--|--------------|------------|
| CSI  | UOM | DESCRIPTION  | UNIT COST    | UNIT COST  |
| 23 05 29 00-0381   | EA  | 10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....           | 2,615.84     | 88.82      |
| 23 05 29 00-0382   | EA  | 12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....           | 3,990.21     | 118.43     |
| 23 05 29 00-0383   | EA  | 14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....           | 4,908.95     | 148.03     |
| 23 05 29 00-0384   | EA  | 16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....           | 5,914.11     | 166.20     |
| 23 05 29 00-0385   | EA  | 18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....           | 6,374.60     | 185.04     |
| 23 05 29 00-0386   | EA  | 20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....           | 6,766.10     | 211.47     |
| 23 05 29 00-0387   | EA  | 24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....           | 8,549.94     | 222.04     |
| <b>23 05 29 00-0388 Pipe Alignment Guide, 2-1/2" Insulation (23 05 29 00-0327)</b> |     |  |              |            |
| 23 05 29 00-0389   | EA  | 1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....     | 979.98       | 28.90      |
| 23 05 29 00-0390   | EA  | 3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....     | 1,034.95     | 29.60      |
| 23 05 29 00-0391   | EA  | 1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....         | 1,036.37     | 30.31      |
| 23 05 29 00-0392   | EA  | 1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4)..... | 1,037.77     | 31.01      |
| 23 05 29 00-0393   | EA  | 1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2)..... | 1,039.18     | 31.72      |
| 23 05 29 00-0394   | EA  | 2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....         | 1,044.82     | 34.54      |
| 23 05 29 00-0395   | EA  | 2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2)..... | 1,047.99     | 36.13      |
| 23 05 29 00-0396   | EA  | 3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....         | 1,201.78     | 37.01      |
| 23 05 29 00-0397   | EA  | 4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....         | 1,205.31     | 38.77      |
| 23 05 29 00-0398   | EA  | 5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....         | 1,351.25     | 49.34      |
| 23 05 29 00-0399   | EA  | 6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....         | 1,373.80     | 60.63      |
| 23 05 29 00-0400   | EA  | 8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....         | 2,589.76     | 75.78      |
| 23 05 29 00-0401   | EA  | 10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....       | 3,935.24     | 90.93      |
| 23 05 29 00-0402   | EA  | 12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....       | 4,855.37     | 121.24     |
| 23 05 29 00-0403   | EA  | 14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....       | 4,916.86     | 151.55     |
| 23 05 29 00-0404   | EA  | 16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....       | 5,922.89     | 170.59     |
| 23 05 29 00-0405   | EA  | 18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....       | 6,383.77     | 189.62     |
| 23 05 29 00-0406   | EA  | 20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....       | 6,776.67     | 216.76     |
| 23 05 29 00-0407   | EA  | 24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....       | 8,561.21     | 227.68     |
| <b>23 05 29 00-0408 Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)</b>     |     |  |              |            |
| 23 05 29 00-0409   | EA  | 1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2).....         | 1,034.95     | 29.60      |
| 23 05 29 00-0410   | EA  | 3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4).....         | 1,036.37     | 30.31      |
| 23 05 29 00-0411   | EA  | 1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1).....             | 1,037.77     | 31.01      |
| 23 05 29 00-0412   | EA  | 1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4).....     | 1,039.18     | 31.72      |
| 23 05 29 00-0413   | EA  | 1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2).....     | 1,040.59     | 32.43      |
| 23 05 29 00-0414   | EA  | 2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2).....             | 1,198.26     | 35.25      |
| 23 05 29 00-0415   | EA  | 2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2).....     | 1,201.78     | 37.01      |
| 23 05 29 00-0416   | EA  | 3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3).....             | 1,203.90     | 38.06      |
| 23 05 29 00-0417   | EA  | 4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4).....             | 1,332.07     | 39.76      |
| 23 05 29 00-0418   | EA  | 5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5).....             | 1,354.06     | 50.75      |
| 23 05 29 00-0419   | EA  | 6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6).....             | 1,514.85     | 62.03      |
| 23 05 29 00-0420   | EA  | 8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8).....             | 2,593.29     | 77.54      |
| 23 05 29 00-0421   | EA  | 10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10).....           | 3,939.46     | 93.05      |
| 23 05 29 00-0422   | EA  | 12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12).....           | 4,861.02     | 124.07     |
| 23 05 29 00-0423   | EA  | 14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14).....           | 4,923.91     | 155.08     |
| 23 05 29 00-0424   | EA  | 16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16).....           | 5,931.35     | 174.82     |
| 23 05 29 00-0425   | EA  | 18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18).....           | 6,392.23     | 193.84     |
| 23 05 29 00-0426   | EA  | 20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20).....           | 6,787.25     | 222.04     |
| 23 05 29 00-0427   | EA  | 24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24).....           | 8,572.50     | 233.32     |
| <b>23 05 29 00-0428 Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)</b> |     |  |              |            |
| 23 05 29 00-0429   | EA  | 1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2).....     | 1,036.37     | 30.31      |
| 23 05 29 00-0430   | EA  | 3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4).....     | 1,189.80     | 31.01      |
| 23 05 29 00-0431   | EA  | 1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1).....         | 1,191.21     | 31.72      |
| 23 05 29 00-0432   | EA  | 1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4)..... | 1,192.62     | 32.43      |
| 23 05 29 00-0433   | EA  | 1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2)..... | 1,194.03     | 33.13      |
| 23 05 29 00-0434   | EA  | 2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2).....         | 1,200.02     | 36.13      |
| 23 05 29 00-0435   | EA  | 2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2)..... | 1,203.62     | 37.92      |
| 23 05 29 00-0436   | EA  | 3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3).....         | 1,330.59     | 39.02      |
| 23 05 29 00-0437   | EA  | 4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4).....         | 1,334.33     | 40.89      |
| 23 05 29 00-0438   | EA  | 5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5).....         | 1,495.11     | 52.16      |
| 23 05 29 00-0439   | EA  | 6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6).....         | 2,565.09     | 63.44      |
| 23 05 29 00-0440   | EA  | 8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8).....         | 3,911.97     | 79.30      |
| 23 05 29 00-0441   | EA  | 10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10).....       | 4,804.50     | 95.37      |
| 23 05 29 00-0442   | EA  | 12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12).....       | 5,835.49     | 126.88     |
| 23 05 29 00-0443   | EA  | 14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14).....       | 5,899.63     | 158.95     |
| 23 05 29 00-0444   | EA  | 16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16).....       | 6,382.57     | 179.04     |
| 23 05 29 00-0445   | EA  | 18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18).....       | 6,740.72     | 198.78     |
| 23 05 29 00-0446   | EA  | 20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20).....       | 8,559.81     | 226.98     |
| <b>23 05 29 00-0447 Pipe Alignment Guide, 4" Insulation (23 05 29 00-0327)</b>     |     |  |              |            |
| 23 05 29 00-0448   | EA  | 1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....         | 1,189.80     | 31.01      |
| 23 05 29 00-0449   | EA  | 3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....         | 1,191.21     | 31.72      |
| 23 05 29 00-0450   | EA  | 1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....             | 1,192.62     | 32.43      |
| 23 05 29 00-0451   | EA  | 1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....     | 1,194.03     | 33.13      |
| 23 05 29 00-0452   | EA  | 1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....     | 1,195.45     | 33.84      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 29 Hangers and Supports for HVAC Piping and Equipment**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0453 EA 2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....  | 1,326.57                  | 37.01                   |
| 23 05 29 00-0454 EA 2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....  | 1,330.10                  | 38.77                   |
| 23 05 29 00-0455 EA 3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....  | 1,332.49                  | 39.97                   |
| 23 05 29 00-0456 EA 4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....  | 1,474.67                  | 41.94                   |
| 23 05 29 00-0457 EA 5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....  | 2,545.35                  | 53.58                   |
| 23 05 29 00-0458 EA 6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....  | 2,567.91                  | 64.85                   |
| 23 05 29 00-0459 EA 8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....  | 3,915.50                  | 81.06                   |
| 23 05 29 00-0460 EA 10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....  | 4,809.72                  | 97.98                   |
| 23 05 29 00-0461 EA 12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....  | 5,841.83                  | 130.05                  |
| 23 05 29 00-0462 EA 14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....  | 6,328.79                  | 162.13                  |
| 23 05 29 00-0463 EA 16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....  | 6,709.71                  | 183.28                  |
| 23 05 29 00-0464 EA 18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....  | 8,514.70                  | 204.42                  |
| <b>23 05 29 00-0465 Sway Bracing For No Hub Pipe (23 05 29 00-0001)</b>   |                           |                         |
| 23 05 29 00-0466 EA 1-1/2" Sway Bracing .....   | 163.90                    | 18.61                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.13                     |                         |
| 23 05 29 00-0467 EA 2" Sway Bracing.....  | 168.98                    | 19.60                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.75                     |                         |
| 23 05 29 00-0468 EA 3" Sway Bracing.....  | 175.14                    | 20.72                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.44                     |                         |
| 23 05 29 00-0469 EA 4" Sway Bracing.....  | 198.78                    | 23.54                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.10                     |                         |
| 23 05 29 00-0470 EA 6" Sway Bracing.....  | 291.84                    | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.15                     |                         |
| 23 05 29 00-0471 EA 8" Sway Bracing.....  | 324.49                    | 43.98                   |
| <i>For Work In Restricted Working Space, Add</i>  | 26.43                     |                         |
| 23 05 29 00-0472 EA 10" Sway Bracing.....   | 368.00                    | 58.79                   |
| <i>For Work In Restricted Working Space, Add</i>  | 35.24                     |                         |
| <b>23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001)</b>                     |                           |                         |
| Note: Heights listed is total for base and adjustable saddle  |                           |                         |
| 23 05 29 00-0474 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) ..... | 340.08                    | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.46                      |                         |
| 23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) ..... | 348.26                    | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.30                      |                         |
| 23 05 29 00-0476 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....     | 692.33                    | 17.62                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.58                     |                         |
| 23 05 29 00-0477 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) ..... | 841.95                    | 19.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.84                     |                         |
| 23 05 29 00-0478 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....     | 853.53                    | 21.85                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.11                     |                         |
| 23 05 29 00-0479 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) ..... | 940.06                    | 24.67                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.80                     |                         |
| 23 05 29 00-0480 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....     | 1,118.67                  | 26.79                   |
| <i>For Work In Restricted Working Space, Add</i>  | 16.07                     |                         |
| 23 05 29 00-0481 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....     | 1,132.58                  | 28.90                   |
| <i>For Work In Restricted Working Space, Add</i>  | 17.34                     |                         |
| 23 05 29 00-0482 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....     | 1,150.43                  | 31.72                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.03                     |                         |
| 23 05 29 00-0483 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....     | 1,199.17                  | 34.54                   |
| <i>For Work In Restricted Working Space, Add</i>  | 20.72                     |                         |
| 23 05 29 00-0484 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....     | 1,286.12                  | 38.06                   |
| <i>For Work In Restricted Working Space, Add</i>  | 22.84                     |                         |
| 23 05 29 00-0485 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....    | 1,326.01                  | 42.29                   |
| <i>For Work In Restricted Working Space, Add</i>  | 25.38                     |                         |
| 23 05 29 00-0486 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....    | 1,613.69                  | 46.53                   |
| <i>For Work In Restricted Working Space, Add</i>  | 27.92                     |                         |
| 23 05 29 00-0487 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....    | 1,762.51                  | 52.16                   |
| <i>For Work In Restricted Working Space, Add</i>  | 31.30                     |                         |
| 23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....    | 2,479.67                  | 57.80                   |
| <i>For Work In Restricted Working Space, Add</i>  | 34.68                     |                         |
| 23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....    | 3,060.70                  | 63.44                   |
| <i>For Work In Restricted Working Space, Add</i>  | 38.06                     |                         |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe' and 'Channel Mounted Cushion Clamp'.



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 05 29 00-0533</b> <b>Rooftop Pipe Supports</b> <small>(23 05 29 00-0001)</small><br>Note: Excludes pipe/conduit clamps and straps.   |                           |                         |
| <b>23 05 29 00-0534</b> <b>Rooftop Support Base</b> <small>(23 05 29 00-0533)</small>  |                           |                         |
| 23 05 29 00-0535    EA    4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM) .....  | 49.54                     | 11.49                   |
| 23 05 29 00-0536    EA    4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP) .....  | 68.96                     | 15.31                   |
| <b>23 05 29 00-0537</b> <b>Rooftop Support Base With 14 Gauge Galvanized Channel</b> <small>(23 05 29 00-0533)</small>   |                           |                         |
| 23 05 29 00-0538    EA    5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5) .....   | 56.15                     | 11.49                   |
| 23 05 29 00-0539    EA    5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10) .....  | 79.71                     | 15.31                   |
| 23 05 29 00-0540    EA    5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20) .....   | 146.37                    | 19.14                   |
| 23 05 29 00-0541    EA    5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30) .....   | 202.00                    | 22.97                   |
| 23 05 29 00-0542    EA    5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40) .....   | 279.30                    | 26.80                   |
| 23 05 29 00-0543    EA    5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48) .....   | 294.76                    | 30.63                   |
| <b>23 05 29 00-0544</b> <b>Rooftop Support Base With 12 Gauge Galvanized Channel</b> <small>(23 05 29 00-0533)</small>   |                           |                         |
| 23 05 29 00-0545    EA    6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610) .....  | 97.27                     | 15.31                   |
| 23 05 29 00-0546    EA    6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620) .....   | 154.21                    | 19.14                   |
| 23 05 29 00-0547    EA    6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630) .....   | 205.14                    | 22.97                   |
| 23 05 29 00-0548    EA    6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640) .....   | 279.48                    | 26.80                   |
| 23 05 29 00-0549    EA    6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648) .....   | 313.78                    | 22.97                   |
| <b>23 05 29 00-0550</b> <b>Rooftop Bridge Support Base With 12 Gauge Galvanized Channel</b> <small>(23 05 29 00-0533)</small>  |                           |                         |
| 23 05 29 00-0551    EA    5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28) .....   | 162.68                    | 22.97                   |
| 23 05 29 00-0552    EA    5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36) .....   | 185.34                    | 26.80                   |
| 23 05 29 00-0553    EA    5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42) .....   | 192.94                    | 30.63                   |
| 23 05 29 00-0554    EA    5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50) .....   | 211.26                    | 34.46                   |
| 23 05 29 00-0555    EA    5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60) .....   | 269.87                    | 38.28                   |
| <b>23 05 29 00-0556</b> <b>Rooftop Pipe Support Base And Rod</b> <small>(23 05 29 00-0533)</small>   |                           |                         |
| 23 05 29 00-0557    EA    9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT) .....   | 118.07                    | 15.31                   |
| 23 05 29 00-0558    EA    9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT) .....   | 118.07                    | 15.31                   |
| 23 05 29 00-0559    EA    9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT) .....   | 118.72                    | 15.31                   |
| 23 05 29 00-0560    EA    10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT) .....  | 127.05                    | 19.14                   |
| 23 05 29 00-0561    EA    10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT) .....  | 122.24                    | 19.14                   |
| 23 05 29 00-0562    EA    10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT) .....  | 128.41                    | 19.14                   |
| <b>23 05 29 00-0563</b> <b>Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly</b> <small>(23 05 29 00-0533)</small>  |                           |                         |
| 23 05 29 00-0564    EA    7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2) .....  | 149.54                    | 15.31                   |
| 23 05 29 00-0565    EA    7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6) .....  | 166.79                    | 15.31                   |
| 23 05 29 00-0566    EA    8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10) .....  | 218.55                    | 19.14                   |
| 23 05 29 00-0567    EA    9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14) .....   | 289.09                    | 19.14                   |
| 23 05 29 00-0568    EA    9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20) .....   | 393.85                    | 19.14                   |
| <b>23 05 29 00-0569</b> <b>Rooftop Support Base And Adjustable Height Roller Assembly</b> <small>(23 05 29 00-0533)</small><br>Note: Includes base, two zinc all threaded rod risers and pipe roller.  |                           |                         |
| 23 05 29 00-0570    EA    Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12) .....  | 186.59                    | 22.97                   |
| <b>23 05 29 00-0571</b> <b>Rooftop Support Base And Adjustable Height Channel Assembly</b> <small>(23 05 29 00-0533)</small><br>Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.   |                           |                         |
| 23 05 29 00-0572    EA    Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8) .....   | 122.56                    | 19.14                   |
| 23 05 29 00-0573    EA    Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12) .....   | 166.87                    | 22.97                   |
| 23 05 29 00-0574    EA    Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16) .....   | 186.14                    | 26.80                   |
| <b>23 05 29 00-0575</b> <b>Rooftop Support Bases With Channel Support And Risers Assembly</b> <small>(23 05 29 00-0533)</small><br>Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length). |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0576 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS) ..... | 447.51                    | 30.63                   |
| 23 05 29 00-0577 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS) ..... | 452.48                    | 30.63                   |
| 23 05 29 00-0578 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS) ..... | 469.89                    | 30.63                   |
| 23 05 29 00-0579 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS) ..... | 509.87                    | 30.63                   |
| 23 05 29 00-0580 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS) ..... | 438.65                    | 30.63                   |
| 23 05 29 00-0581 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS) ..... | 455.31                    | 30.63                   |
| 23 05 29 00-0582 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS) ..... | 472.73                    | 30.63                   |
| 23 05 29 00-0583 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS) ..... | 512.69                    | 30.63                   |
| 23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS) ..... | 458.45                    | 30.63                   |
| 23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS) ..... | 464.27                    | 30.63                   |
| 23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS) ..... | 481.35                    | 30.63                   |
| 23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS) ..... | 521.49                    | 30.63                   |
| 23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS) ..... | 478.69                    | 30.63                   |
| 23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS) ..... | 483.99                    | 30.63                   |
| 23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS) ..... | 501.08                    | 30.63                   |
| 23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS) ..... | 541.21                    | 30.63                   |
| <br>23 05 29 00-0592 Threaded Rod, Accessories And Attachments (23 05 29)   |                           |                         |
| 23 05 29 00-0593 Threaded Rod And Rod Accessories (23 05 29 00-0592)  |                           |                         |
| 23 05 29 00-0594 Threaded Rod (23 05 29 00-0593)  |                           |                         |
| Note: Fully threaded.   |                           |                         |
| 23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 4.54                      | 0.96                    |
| For Galvanized, Add   | 1.05                      |                         |
| For Zinc Plated, Add  | 0.75                      |                         |
| For Work In Restricted Working Space, Add   | 0.57                      |                         |
| 23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 6.23                      | 1.03                    |
| For Galvanized, Add   | 1.68                      |                         |
| For Zinc Plated, Add  | 1.19                      |                         |
| For Work In Restricted Working Space, Add   | 0.61                      |                         |
| 23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 8.60                      | 1.06                    |
| For Galvanized, Add   | 2.60                      |                         |
| For Zinc Plated, Add  | 1.85                      |                         |
| For Work In Restricted Working Space, Add   | 0.63                      |                         |
| 23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 13.96                     | 1.09                    |
| For Galvanized, Add   | 4.72                      |                         |
| For Zinc Plated, Add  | 3.36                      |                         |
| For Work In Restricted Working Space, Add   | 0.65                      |                         |
| 23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 15.21                     | 1.13                    |
| For Galvanized, Add   | 5.18                      |                         |
| For Zinc Plated, Add  | 3.69                      |                         |
| For Work In Restricted Working Space, Add   | 0.68                      |                         |
| 23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 20.75                     | 1.27                    |
| For Galvanized, Add   | 7.28                      |                         |
| For Zinc Plated, Add  | 5.19                      |                         |
| For Work In Restricted Working Space, Add   | 0.77                      |                         |
| 23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....  | 25.79                     | 1.42                    |
| For Galvanized, Add   | 9.18                      |                         |
| For Zinc Plated, Add  | 6.54                      |                         |
| For Work In Restricted Working Space, Add   | 0.85                      |                         |
| <br>23 05 29 00-0602 Rod Couplings (23 05 29 00-0593)   |                           |                         |
| 23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut .....  | 11.22                     |                         |
| For Work In Restricted Working Space, Add   | 2.82                      |                         |
| 23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut .....  | 12.71                     |                         |
| For Work In Restricted Working Space, Add   | 3.13                      |                         |
| 23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut .....  | 15.78                     |                         |
| For Work In Restricted Working Space, Add   | 3.53                      |                         |
| 23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut .....  | 19.13                     |                         |
| For Work In Restricted Working Space, Add   | 3.85                      |                         |
| 23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut .....  | 27.65                     |                         |
| For Work In Restricted Working Space, Add   | 4.23                      |                         |
| 23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut .....  | 32.80                     |                         |
| For Work In Restricted Working Space, Add   | 4.98                      |                         |
| 23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut .....  | 61.70                     |                         |
| For Work In Restricted Working Space, Add   | 5.64                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 05 29 00-0610 Flat Washers</b> (23 05 29 00-0593)<br>Note: Zinc plated.                          |                           |                         |
| 23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....               | 0.79                      | 0.30                    |
| For Galvanized, Add  | 0.04                      |                         |
| For Work In Restricted Working Space, Add  | 0.19                      |                         |
| 23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....               | 1.06                      | 0.30                    |
| For Galvanized, Add  | 0.09                      |                         |
| For Work In Restricted Working Space, Add  | 0.22                      |                         |
| 23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....               | 1.51                      | 0.46                    |
| For Galvanized, Add  | 0.17                      |                         |
| For Work In Restricted Working Space, Add  | 0.26                      |                         |
| 23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....               | 2.05                      | 0.46                    |
| For Galvanized, Add  | 0.24                      |                         |
| For Work In Restricted Working Space, Add  | 0.33                      |                         |
| 23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....               | 2.41                      | 0.61                    |
| For Galvanized, Add  | 0.28                      |                         |
| For Work In Restricted Working Space, Add  | 0.38                      |                         |
| 23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....                 | 2.81                      | 0.61                    |
| For Galvanized, Add  | 0.35                      |                         |
| For Work In Restricted Working Space, Add  | 0.43                      |                         |
| 23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....             | 3.17                      | 0.76                    |
| For Galvanized, Add  | 0.39                      |                         |
| For Work In Restricted Working Space, Add  | 0.48                      |                         |
| <b>23 05 29 00-0618 Hex Nuts</b> (23 05 29 00-0593)<br>Note: Grade 2 and zinc plated.                  |                           |                         |
| 23 05 29 00-0619 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                  | 1.00                      | 0.38                    |
| For Galvanized, Add  | 0.03                      |                         |
| For Work In Restricted Working Space, Add  | 0.26                      |                         |
| 23 05 29 00-0620 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                  | 1.25                      | 0.38                    |
| For Galvanized, Add  | 0.07                      |                         |
| For Work In Restricted Working Space, Add  | 0.29                      |                         |
| 23 05 29 00-0621 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                  | 1.67                      | 0.38                    |
| For Galvanized, Add  | 0.17                      |                         |
| For Work In Restricted Working Space, Add  | 0.30                      |                         |
| 23 05 29 00-0622 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                  | 1.96                      | 0.76                    |
| For Galvanized, Add  | 0.22                      |                         |
| For Work In Restricted Working Space, Add  | 0.32                      |                         |
| 23 05 29 00-0623 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                  | 2.81                      | 0.76                    |
| For Galvanized, Add  | 0.42                      |                         |
| For Work In Restricted Working Space, Add  | 0.34                      |                         |
| 23 05 29 00-0624 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                    | 3.55                      | 0.76                    |
| For Galvanized, Add  | 0.57                      |                         |
| For Work In Restricted Working Space, Add  | 0.38                      |                         |
| 23 05 29 00-0625 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....                | 5.72                      | 0.76                    |
| For Galvanized, Add  | 1.08                      |                         |
| For Work In Restricted Working Space, Add  | 0.43                      |                         |
| <b>23 05 29 00-0626 Turnbuckle (Cooper B-Line B3202)</b> (23 05 29 00-0593)<br>Note: Type 13.          |                           |                         |
| 23 05 29 00-0627 EA 3/8" Turnbuckle (Cooper B-Line B3202).....   | 31.10                     | 7.66                    |
| For Work In Restricted Working Space, Add  | 4.59                      |                         |
| 23 05 29 00-0628 EA 1/2" Turnbuckle (Cooper B-Line B3202).....   | 36.65                     | 8.42                    |
| For Work In Restricted Working Space, Add  | 5.11                      |                         |
| 23 05 29 00-0629 EA 5/8" Turnbuckle (Cooper B-Line B3202).....   | 39.66                     | 9.19                    |
| For Work In Restricted Working Space, Add  | 5.74                      |                         |
| 23 05 29 00-0630 EA 3/4" Turnbuckle (Cooper B-Line B3202).....   | 49.37                     | 10.72                   |
| For Work In Restricted Working Space, Add  | 6.56                      |                         |
| 23 05 29 00-0631 EA 7/8" Turnbuckle (Cooper B-Line B3202).....   | 63.21                     | 11.49                   |
| For Work In Restricted Working Space, Add  | 7.66                      |                         |
| 23 05 29 00-0632 EA 1" Turnbuckle (Cooper B-Line B3202).....   | 78.20                     | 12.26                   |
| For Work In Restricted Working Space, Add  | 9.19                      |                         |
| 23 05 29 00-0633 EA 1-1/8" Turnbuckle (Cooper B-Line B3202).....                                       | 107.42                    | 13.79                   |
| For Work In Restricted Working Space, Add  | 11.49                     |                         |
| <b>23 05 29 00-0634 Swivel Turnbuckle (Cooper B-Line B3224)</b> (23 05 29 00-0593)<br>Note: Type 15.   |                           |                         |
| 23 05 29 00-0635 EA 3/8" Swivel Turnbuckle (Cooper B-Line B3224).....                                  | 21.12                     | 7.66                    |
| For Work In Restricted Working Space, Add  | 4.59                      |                         |
| 23 05 29 00-0636 EA 1/2" Swivel Turnbuckle (Cooper B-Line B3224).....                                  | 24.27                     | 8.57                    |
| For Work In Restricted Working Space, Add  | 5.11                      |                         |
| 23 05 29 00-0637 EA 5/8" Swivel Turnbuckle (Cooper B-Line B3224).....                                  | 31.31                     | 9.49                    |
| For Work In Restricted Working Space, Add  | 5.74                      |                         |
| 23 05 29 00-0638 EA 3/4" Swivel Turnbuckle (Cooper B-Line B3224).....                                  | 37.52                     | 10.88                   |
| For Work In Restricted Working Space, Add  | 6.56                      |                         |
| <b>23 05 29 00-0639 Forged Steel Clevis (Cooper B-Line B3201)</b> (23 05 29 00-0593)<br>Note: Type 14. |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0640 EA 3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201)..... | 97.88                     | 14.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.46                      |                         |
| 23 05 29 00-0641 EA 4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....      | 141.39                    | 14.80                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.90                      |                         |
| 23 05 29 00-0642 EA 5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....           | 152.72                    | 15.51                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.40                      |                         |
| 23 05 29 00-0643 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....       | 159.17                    | 16.91                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.95                      |                         |
| 23 05 29 00-0644 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....       | 168.21                    | 19.04                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.28                     |                         |
| 23 05 29 00-0645 EA 6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....            | 276.94                    | 24.67                   |
| <i>For Work In Restricted Working Space, Add</i>   | 14.80                     |                         |
| 23 05 29 00-0646 EA 5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....      | 301.29                    | 28.20                   |
| <i>For Work In Restricted Working Space, Add</i>   | 16.92                     |                         |
| 23 05 29 00-0647 EA 7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....                | 356.21                    | 35.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 21.15                     |                         |
| <b>23 05 29 00-0648 Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small></b>             |                           |                         |
| 23 05 29 00-0649 EA 3/8" Diameter x 8" Length Shank, Welded Eye Rod.....                                   | 31.28                     | 8.27                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.98                      |                         |
| 23 05 29 00-0650 EA 3/8" Diameter x 10" Length Shank, Welded Eye Rod.....                                  | 32.23                     | 8.42                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.07                      |                         |
| 23 05 29 00-0651 EA 3/8" Diameter x 12" Length Shank, Welded Eye Rod.....                                  | 33.17                     | 8.57                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.17                      |                         |
| 23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod.....                                  | 33.49                     | 8.73                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.27                      |                         |
| 23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod.....                                  | 35.40                     | 9.04                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.46                      |                         |
| 23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod.....                                  | 37.65                     | 9.65                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.74                      |                         |
| 23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod.....                                  | 39.23                     | 10.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.03                      |                         |
| 23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod.....                                  | 42.12                     | 10.56                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.32                      |                         |
| 23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod.....                                  | 44.34                     | 11.03                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.61                      |                         |
| 23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod.....                                  | 46.58                     | 11.49                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.89                      |                         |
| 23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod.....                                   | 40.69                     | 9.19                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.51                      |                         |
| 23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod.....                                  | 41.65                     | 9.34                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.61                      |                         |
| 23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod.....                                  | 42.65                     | 9.49                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.71                      |                         |
| 23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod.....                                  | 43.62                     | 9.65                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.81                      |                         |
| 23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod.....                                  | 45.57                     | 9.95                    |
| <i>For Work In Restricted Working Space, Add</i>   | 6.02                      |                         |
| 23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod.....                                  | 49.14                     | 10.57                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.32                      |                         |
| 23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod.....                                  | 52.08                     | 11.03                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.63                      |                         |
| 23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod.....                                  | 55.65                     | 11.49                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.94                      |                         |
| 23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod.....                                  | 58.56                     | 12.10                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.24                      |                         |
| 23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod.....                                  | 61.50                     | 12.56                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.55                      |                         |
| 23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod.....                                   | 53.71                     | 10.27                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.17                      |                         |
| 23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod.....                                  | 55.32                     | 10.42                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.27                      |                         |
| 23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod.....                                  | 56.97                     | 10.57                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.38                      |                         |
| 23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod.....                                  | 57.96                     | 10.88                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.48                      |                         |
| 23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod.....                                  | 60.58                     | 11.18                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.70                      |                         |
| 23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod.....                                  | 64.83                     | 11.64                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.01                      |                         |
| 23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod.....                                  | 69.06                     | 12.26                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.33                      |                         |
| 23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod.....                                  | 72.67                     | 12.71                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.65                      |                         |
| 23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod.....                                  | 76.92                     | 13.32                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.97                      |                         |
| 23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod.....                                  | 81.15                     | 13.79                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.28                      |                         |
| 23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod.....                                   | 65.44                     | 11.64                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.01                      |                         |
| 23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod.....                                  | 67.72                     | 11.79                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.11                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR                   | CSI | UOM  | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|------|--|---------------------------|-------------------------|
| 23 05 29 00-0681        | EA  | 3/4" | Diameter x 12" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 69.35<br>7.22             | 12.10                   |
| 23 05 29 00-0682        | EA  | 3/4" | Diameter x 14" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 71.62<br>7.33             | 12.26                   |
| 23 05 29 00-0683        | EA  | 3/4" | Diameter x 18" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 75.54<br>7.55             | 12.56                   |
| 23 05 29 00-0684        | EA  | 3/4" | Diameter x 24" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 81.07<br>7.88             | 13.17                   |
| 23 05 29 00-0685        | EA  | 3/4" | Diameter x 30" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 86.62<br>8.20             | 13.63                   |
| 23 05 29 00-0686        | EA  | 3/4" | Diameter x 36" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 92.83<br>8.53             | 14.25                   |
| 23 05 29 00-0687        | EA  | 3/4" | Diameter x 42" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 99.00<br>8.86             | 14.70                   |
| 23 05 29 00-0688        | EA  | 3/4" | Diameter x 48" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 104.56<br>9.18            | 15.31                   |
| 23 05 29 00-0689        | EA  | 7/8" | Diameter x 8" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>         | 78.10<br>8.13             | 13.48                   |
| 23 05 29 00-0690        | EA  | 7/8" | Diameter x 10" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 81.01<br>8.24             | 13.79                   |
| 23 05 29 00-0691        | EA  | 7/8" | Diameter x 12" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 83.32<br>8.36             | 13.94                   |
| 23 05 29 00-0692        | EA  | 7/8" | Diameter x 14" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 85.60<br>8.47             | 14.10                   |
| 23 05 29 00-0693        | EA  | 7/8" | Diameter x 18" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 90.20<br>8.69             | 14.55                   |
| 23 05 29 00-0694        | EA  | 7/8" | Diameter x 24" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 97.70<br>9.04             | 15.01                   |
| 23 05 29 00-0695        | EA  | 7/8" | Diameter x 30" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 104.56<br>9.38            | 15.63                   |
| 23 05 29 00-0696        | EA  | 7/8" | Diameter x 36" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 112.06<br>9.71            | 16.24                   |
| 23 05 29 00-0697        | EA  | 7/8" | Diameter x 42" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 118.94<br>10.05           | 16.69                   |
| 23 05 29 00-0698        | EA  | 7/8" | Diameter x 48" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 125.81<br>10.40           | 17.30                   |
| 23 05 29 00-0699        | EA  | 1"   | Diameter x 8" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>         | 97.37<br>9.70             | 16.24                   |
| 23 05 29 00-0700        | EA  | 1"   | Diameter x 10" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 100.35<br>9.83            | 16.39                   |
| 23 05 29 00-0701        | EA  | 1"   | Diameter x 12" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 103.32<br>9.96            | 16.54                   |
| 23 05 29 00-0702        | EA  | 1"   | Diameter x 14" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 106.29<br>10.08           | 16.85                   |
| 23 05 29 00-0703        | EA  | 1"   | Diameter x 18" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 112.23<br>10.34           | 17.30                   |
| 23 05 29 00-0704        | EA  | 1"   | Diameter x 24" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 121.17<br>10.72           | 17.92                   |
| 23 05 29 00-0705        | EA  | 1"   | Diameter x 30" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 130.11<br>11.11           | 18.53                   |
| 23 05 29 00-0706        | EA  | 1"   | Diameter x 36" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 139.63<br>11.49           | 19.14                   |
| 23 05 29 00-0707        | EA  | 1"   | Diameter x 42" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 148.57<br>11.87           | 19.76                   |
| 23 05 29 00-0708        | EA  | 1"   | Diameter x 48" Length Shank, Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i>        | 157.51<br>12.26           | 20.37                   |
| <b>23 05 29 00-0709</b> |     |      | <b>Welded Linked Eye Rod (Cooper B-Line B3211X)</b> <small>(23 05 29 00-0593)</small>                  |                           |                         |
| 23 05 29 00-0710        | EA  | 3/8" | Diameter x 16" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 61.96<br>6.74             | 11.18                   |
| 23 05 29 00-0711        | EA  | 3/8" | Diameter x 20" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 63.63<br>6.93             | 11.49                   |
| 23 05 29 00-0712        | EA  | 3/8" | Diameter x 24" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 65.32<br>7.12             | 11.94                   |
| 23 05 29 00-0713        | EA  | 3/8" | Diameter x 30" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 66.29<br>7.41             | 12.40                   |
| 23 05 29 00-0714        | EA  | 3/8" | Diameter x 36" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 69.34<br>7.70             | 12.87                   |
| 23 05 29 00-0715        | EA  | 3/8" | Diameter x 48" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 73.42<br>8.27             | 13.78                   |
| 23 05 29 00-0716        | EA  | 3/8" | Diameter x 60" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 76.37<br>8.84             | 14.70                   |
| 23 05 29 00-0717        | EA  | 3/8" | Diameter x 72" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 81.49<br>9.42             | 15.77                   |
| 23 05 29 00-0718        | EA  | 1/2" | Diameter x 16" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 78.89<br>7.45             | 12.41                   |
| 23 05 29 00-0719        | EA  | 1/2" | Diameter x 20" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 80.61<br>7.65             | 12.71                   |
| 23 05 29 00-0720        | EA  | 1/2" | Diameter x 24" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 82.39<br>7.85             | 13.02                   |
| 23 05 29 00-0721        | EA  | 1/2" | Diameter x 30" Length Shank, Linked Welded Eye Rod<br><i>For Work In Restricted Working Space, Add</i> | 84.48<br>8.16             | 13.63                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod.....        | 87.58                     | 14.10                   |
| For Work In Restricted Working Space, Add   | 8.46                      |                         |
| 23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod.....        | 93.89                     | 15.16                   |
| For Work In Restricted Working Space, Add   | 9.08                      |                         |
| 23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod.....        | 99.12                     | 16.09                   |
| For Work In Restricted Working Space, Add   | 9.69                      |                         |
| 23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod.....        | 105.42                    | 17.15                   |
| For Work In Restricted Working Space, Add   | 10.30                     |                         |
| 23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....        | 104.05                    | 13.79                   |
| For Work In Restricted Working Space, Add   | 8.31                      |                         |
| 23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....        | 106.85                    | 14.25                   |
| For Work In Restricted Working Space, Add   | 8.53                      |                         |
| 23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....        | 109.70                    | 14.55                   |
| For Work In Restricted Working Space, Add   | 8.74                      |                         |
| 23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....        | 111.83                    | 15.16                   |
| For Work In Restricted Working Space, Add   | 9.05                      |                         |
| 23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....        | 116.07                    | 15.63                   |
| For Work In Restricted Working Space, Add   | 9.37                      |                         |
| 23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....        | 123.49                    | 16.69                   |
| For Work In Restricted Working Space, Add   | 10.00                     |                         |
| 23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....        | 130.91                    | 17.77                   |
| For Work In Restricted Working Space, Add   | 10.64                     |                         |
| 23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....        | 137.28                    | 18.84                   |
| For Work In Restricted Working Space, Add   | 11.27                     |                         |
| 23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod.....        | 130.53                    | 15.63                   |
| For Work In Restricted Working Space, Add   | 9.41                      |                         |
| 23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod.....        | 134.49                    | 16.09                   |
| For Work In Restricted Working Space, Add   | 9.63                      |                         |
| 23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod.....        | 137.32                    | 16.39                   |
| For Work In Restricted Working Space, Add   | 9.85                      |                         |
| 23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod.....        | 141.59                    | 17.00                   |
| For Work In Restricted Working Space, Add   | 10.18                     |                         |
| 23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod.....        | 147.99                    | 17.47                   |
| For Work In Restricted Working Space, Add   | 10.50                     |                         |
| 23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod.....        | 157.57                    | 18.53                   |
| For Work In Restricted Working Space, Add   | 11.15                     |                         |
| 23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod.....        | 167.20                    | 19.61                   |
| For Work In Restricted Working Space, Add   | 11.81                     |                         |
| 23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod.....        | 177.89                    | 20.83                   |
| For Work In Restricted Working Space, Add   | 12.46                     |                         |
| 23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....        | 156.39                    | 18.08                   |
| For Work In Restricted Working Space, Add   | 10.88                     |                         |
| 23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....        | 161.42                    | 18.53                   |
| For Work In Restricted Working Space, Add   | 11.11                     |                         |
| 23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....        | 165.36                    | 18.84                   |
| For Work In Restricted Working Space, Add   | 11.34                     |                         |
| 23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....        | 169.67                    | 19.46                   |
| For Work In Restricted Working Space, Add   | 11.68                     |                         |
| 23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....        | 177.21                    | 20.07                   |
| For Work In Restricted Working Space, Add   | 12.02                     |                         |
| 23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....        | 190.08                    | 21.14                   |
| For Work In Restricted Working Space, Add   | 12.70                     |                         |
| 23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....        | 201.91                    | 22.36                   |
| For Work In Restricted Working Space, Add   | 13.38                     |                         |
| 23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....        | 214.79                    | 23.44                   |
| For Work In Restricted Working Space, Add   | 14.06                     |                         |
| 23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod.....          | 198.39                    | 21.60                   |
| For Work In Restricted Working Space, Add   | 12.97                     |                         |
| 23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod.....          | 203.50                    | 22.06                   |
| For Work In Restricted Working Space, Add   | 13.22                     |                         |
| 23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod.....          | 208.60                    | 22.51                   |
| For Work In Restricted Working Space, Add   | 13.48                     |                         |
| 23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod.....          | 214.14                    | 23.13                   |
| For Work In Restricted Working Space, Add   | 13.86                     |                         |
| 23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod.....          | 223.87                    | 23.74                   |
| For Work In Restricted Working Space, Add   | 14.24                     |                         |
| 23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod.....          | 239.20                    | 24.97                   |
| For Work In Restricted Working Space, Add   | 15.01                     |                         |
| 23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod.....          | 254.53                    | 26.34                   |
| For Work In Restricted Working Space, Add   | 15.78                     |                         |
| 23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod.....          | 270.82                    | 27.57                   |
| For Work In Restricted Working Space, Add   | 16.54                     |                         |
| <br>  |                           |                         |
| 23 05 29 00-0758 Attachments (23 05 29 00-0592)   |                           |                         |
| 23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) (23 05 29 00-0758)             |                           |                         |
| Note: Type 22.  |                           |                         |
| 23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... | 63.20                     | 14.26                   |
| For Work In Restricted Working Space, Add   | 8.56                      |                         |
| 23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... | 67.43                     | 14.98                   |
| For Work In Restricted Working Space, Add   | 9.01                      |                         |
| 23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... | 71.79                     | 15.84                   |
| For Work In Restricted Working Space, Add   | 9.51                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....                  | 91.63                     | 16.83                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.07                     |                         |
| 23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....                  | 109.96                    | 17.83                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.70                     |                         |
| 23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....                    | 154.19                    | 20.41                   |
| <i>For Work In Restricted Working Space, Add</i>   | 12.23                     |                         |
| 23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....                | 218.42                    | 21.40                   |
| <i>For Work In Restricted Working Space, Add</i>   | 12.84                     |                         |
| <b>23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) (23 05 29 00-0758)</b>                     |                           |                         |
| Note: Type 23. Top or bottom flange mount.   |                           |                         |
| 23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....                         | 23.38                     | 7.81                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.74                      |                         |
| 23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....                         | 27.76                     | 9.95                    |
| <i>For Work In Restricted Working Space, Add</i>   | 6.13                      |                         |
| 23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....                         | 31.42                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.56                      |                         |
| 23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....                         | 40.13                     | 11.49                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.07                      |                         |
| 23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....                         | 57.70                     | 12.26                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.66                      |                         |
| <b>23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) (23 05 29 00-0758)</b>                    |                           |                         |
| Note: Type 21. For attaching threaded rod centered under beam flanges.                                   |                           |                         |
| 23 05 29 00-0774 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... | 62.75                     | 10.72                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.66                      |                         |
| 23 05 29 00-0775 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... | 91.64                     | 13.79                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.36                      |                         |
| 23 05 29 00-0776 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... | 130.38                    | 15.31                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.19                      |                         |
| 23 05 29 00-0777 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... | 155.89                    | 16.85                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.21                     |                         |
| 23 05 29 00-0778 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....   | 374.75                    | 18.38                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.49                     |                         |
| <b>23 05 29 00-0779 Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758)</b>                                 |                           |                         |
| Note: Type 24. Includes plate and nuts.  |                           |                         |
| 23 05 29 00-0780 EA 1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                    | 19.04                     | 3.83                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.59                      |                         |
| 23 05 29 00-0781 EA 3/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                    | 20.63                     | 4.59                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.84                      |                         |
| 23 05 29 00-0782 EA 1" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                      | 22.19                     | 4.59                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.11                      |                         |
| 23 05 29 00-0783 EA 1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                  | 25.13                     | 4.59                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.40                      |                         |
| 23 05 29 00-0784 EA 1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                  | 25.99                     | 5.36                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.74                      |                         |
| 23 05 29 00-0785 EA 2" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                      | 27.82                     | 5.36                    |
| <i>For Work In Restricted Working Space, Add</i>   | 6.13                      |                         |
| 23 05 29 00-0786 EA 2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                  | 39.60                     | 5.36                    |
| <i>For Work In Restricted Working Space, Add</i>   | 6.56                      |                         |
| 23 05 29 00-0787 EA 3" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                      | 43.63                     | 6.12                    |
| <i>For Work In Restricted Working Space, Add</i>   | 7.07                      |                         |
| 23 05 29 00-0788 EA 4" Pipe Size, Steel U-Bolt (B-Line B-3188).....                                      | 52.52                     | 6.90                    |
| <i>For Work In Restricted Working Space, Add</i>   | 7.66                      |                         |
| <b>23 05 29 00-0789 Copper Standoff Brackets With Flange (23 05 29 00-0758)</b>                          |                           |                         |
| Note: Installed in wood, concrete, concrete block or steel.  |                           |                         |
| 23 05 29 00-0790 EA Clamp Size 1/2", Copper Standoff Brackets With Flange.....                           | 45.58                     | 21.90                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.13                     |                         |
| 23 05 29 00-0791 EA Clamp Size 3/4", Copper Standoff Brackets With Flange.....                           | 45.69                     | 21.90                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.13                     |                         |
| 23 05 29 00-0792 EA Clamp Size 1", Copper Standoff Brackets With Flange.....                             | 45.80                     | 21.90                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.13                     |                         |
| 23 05 29 00-0793 EA Clamp Size 1 1/4", Copper Standoff Brackets With Flange.....                         | 48.66                     | 23.29                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.92                     |                         |
| 23 05 29 00-0794 EA Clamp Size 1 1/2", Copper Standoff Brackets With Flange.....                         | 48.88                     | 23.29                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.92                     |                         |
| <b>23 05 29 00-0795 Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758)</b>                    |                           |                         |
| Note: Type 16.   |                           |                         |
| 23 05 29 00-0796 EA 3/8" Rod Size, Malleable Iron Eye Socket.....  | 14.03                     | 2.30                    |
| <i>For Work In Restricted Working Space, Add</i>   | 1.40                      |                         |
| 23 05 29 00-0797 EA 1/2" Rod Size, Malleable Iron Eye Socket.....  | 17.89                     | 3.07                    |
| <i>For Work In Restricted Working Space, Add</i>   | 1.84                      |                         |
| 23 05 29 00-0798 EA 5/8" Rod Size, Malleable Iron Eye Socket.....  | 30.36                     | 3.07                    |
| <i>For Work In Restricted Working Space, Add</i>   | 1.86                      |                         |
| 23 05 29 00-0799 EA 3/4" Rod Size, Malleable Iron Eye Socket.....  | 42.56                     | 3.07                    |
| <i>For Work In Restricted Working Space, Add</i>   | 1.84                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0800 EA 7/8" Rod Size, Malleable Iron Eye Socket<br><i>For Work In Restricted Working Space, Add</i>                                    | 46.06<br>2.30             | 3.83                    |
| <b>23 05 29 00-0801 Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)</b><br>Note: Type 17.  |                           |                         |
| 23 05 29 00-0802 EA 3/8" Rod Size, Steel Weldless Eye Nut<br><i>For Work In Restricted Working Space, Add</i>                                       | 44.73<br>1.40             | 2.30                    |
| 23 05 29 00-0803 EA 1/2" Rod Size, Steel Weldless Eye Nut<br><i>For Work In Restricted Working Space, Add</i>                                       | 46.20<br>1.84             | 3.07                    |
| 23 05 29 00-0804 EA 5/8" Rod Size, Steel Weldless Eye Nut<br><i>For Work In Restricted Working Space, Add</i>                                       | 46.27<br>1.86             | 3.07                    |
| 23 05 29 00-0805 EA 3/4" Rod Size, Steel Weldless Eye Nut<br><i>For Work In Restricted Working Space, Add</i>                                       | 46.20<br>1.84             | 3.07                    |
| 23 05 29 00-0806 EA 7/8" Rod Size, Steel Weldless Eye Nut<br><i>For Work In Restricted Working Space, Add</i>                                       | 89.61<br>2.07             | 3.37                    |
| 23 05 29 00-0807 EA 1" Rod Size, Steel Weldless Eye Nut<br><i>For Work In Restricted Working Space, Add</i>   | 90.38<br>2.30             | 3.83                    |
| <b>23 05 29 00-0808 Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758)</b><br>Note: For attaching threaded rod to either side of an I-beam. |                           |                         |
| 23 05 29 00-0809 EA 3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>                | 31.28<br>4.28             | 7.13                    |
| 23 05 29 00-0810 EA 1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>                | 37.51<br>4.72             | 7.85                    |
| 23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>                | 45.30<br>5.19             | 8.56                    |
| 23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>                | 61.78<br>5.46             | 9.27                    |
| 23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>                | 94.25<br>6.42             | 10.70                   |
| 23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>               | 32.86<br>4.28             | 7.13                    |
| 23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>               | 39.74<br>4.72             | 7.85                    |
| 23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>               | 45.30<br>5.19             | 8.56                    |
| 23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>               | 67.65<br>5.46             | 9.27                    |
| 23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>               | 104.28<br>6.42            | 10.70                   |
| 23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>              | 36.53<br>4.28             | 7.13                    |
| 23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>              | 43.87<br>4.72             | 7.85                    |
| 23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>              | 54.98<br>5.19             | 8.56                    |
| 23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>              | 78.64<br>5.46             | 9.27                    |
| 23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp<br><i>For Work In Restricted Working Space, Add</i>              | 125.77<br>6.42            | 10.70                   |
| <b>23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758)</b><br>Note: Type 34.   |                           |                         |
| 23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket<br><i>For Work In Restricted Working Space, Add</i>  | 25.99<br>5.74             | 9.95                    |
| 23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket<br><i>For Work In Restricted Working Space, Add</i>  | 30.59<br>6.13             | 9.95                    |
| 23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket<br><i>For Work In Restricted Working Space, Add</i>  | 39.23<br>6.56             | 10.72                   |
| 23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket<br><i>For Work In Restricted Working Space, Add</i>  | 68.44<br>7.07             | 11.49                   |
| 23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket<br><i>For Work In Restricted Working Space, Add</i>  | 79.94<br>7.66             | 13.02                   |
| <b>23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758)</b><br>Note: Also known as coach screws.   |                           |                         |
| 23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>  | 4.08<br>0.96              |                         |
| 23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>  | 4.14<br>0.99              |                         |
| 23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>  | 4.64<br>1.03              |                         |
| 23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>  | 5.54<br>1.07              |                         |
| 23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>   | 5.89<br>1.10              |                         |
| 23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>   | 7.41<br>1.15              |                         |
| 23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt<br><i>For Work In Restricted Working Space, Add</i>  | 5.54<br>1.15              |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt.....   | 5.62                      |                         |
| For Work In Restricted Working Space, Add   | 1.20                      |                         |
| 23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt.....   | 6.50                      |                         |
| For Work In Restricted Working Space, Add   | 1.25                      |                         |
| 23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt.....   | 7.49                      |                         |
| For Work In Restricted Working Space, Add   | 1.31                      |                         |
| 23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt.....  | 8.78                      |                         |
| For Work In Restricted Working Space, Add   | 1.37                      |                         |
| 23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt.....  | 9.40                      |                         |
| For Work In Restricted Working Space, Add   | 1.43                      |                         |
| 23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt.....   | 7.58                      |                         |
| For Work In Restricted Working Space, Add   | 1.28                      |                         |
| 23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt.....   | 8.84                      |                         |
| For Work In Restricted Working Space, Add   | 1.31                      |                         |
| <b>23 05 29 00-0845 Hanger Strap</b> (23 05 29 00-0592)   |                           |                         |
| 23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap.....   | 7.33                      |                         |
| <b>23 05 29 00-0847 Shields And Saddles</b> (23 05 29)  |                           |                         |
| <b>23 05 29 00-0848 Insulation Protection Shield</b> (23 05 29 00-0847)   |                           |                         |
| Note: Type 40.  |                           |                         |
| <b>23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151)</b> (23 05 29 00-0848)                             |                           |                         |
| 23 05 29 00-0850 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... | 18.82                     | 3.68                    |
| For Work In Restricted Working Space, Add   | 3.68                      |                         |
| 23 05 29 00-0851 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....     | 19.09                     | 3.72                    |
| For Work In Restricted Working Space, Add   | 3.72                      |                         |
| 23 05 29 00-0852 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... | 19.51                     | 3.77                    |
| For Work In Restricted Working Space, Add   | 3.77                      |                         |
| 23 05 29 00-0853 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....     | 20.29                     | 3.81                    |
| For Work In Restricted Working Space, Add   | 3.81                      |                         |
| 23 05 29 00-0854 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....     | 22.14                     | 3.90                    |
| For Work In Restricted Working Space, Add   | 3.91                      |                         |
| 23 05 29 00-0855 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....     | 26.26                     | 4.00                    |
| For Work In Restricted Working Space, Add   | 4.00                      |                         |
| 23 05 29 00-0856 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....     | 30.00                     | 4.09                    |
| For Work In Restricted Working Space, Add   | 4.09                      |                         |
| 23 05 29 00-0857 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....    | 35.88                     | 4.18                    |
| For Work In Restricted Working Space, Add   | 4.18                      |                         |
| 23 05 29 00-0858 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 44.96                     | 4.22                    |
| For Work In Restricted Working Space, Add   | 4.23                      |                         |
| 23 05 29 00-0859 EA 14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 48.64                     | 4.27                    |
| For Work In Restricted Working Space, Add   | 4.28                      |                         |
| 23 05 29 00-0860 EA 16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 65.42                     | 4.32                    |
| For Work In Restricted Working Space, Add   | 4.32                      |                         |
| 23 05 29 00-0861 EA 18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 73.02                     | 4.36                    |
| For Work In Restricted Working Space, Add   | 4.37                      |                         |
| 23 05 29 00-0862 EA 20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 131.84                    | 4.41                    |
| For Work In Restricted Working Space, Add   | 4.41                      |                         |
| 23 05 29 00-0863 EA 24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 143.03                    | 4.50                    |
| For Work In Restricted Working Space, Add   | 4.50                      |                         |
| 23 05 29 00-0864 EA 30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....    | 172.04                    | 4.60                    |
| For Work In Restricted Working Space, Add   | 4.59                      |                         |
| <b>23 05 29 00-0865 Insulation Protection Shield (Cooper B-Line B3154)</b> (23 05 29 00-0848)                             |                           |                         |
| 23 05 29 00-0866 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....  | 17.02                     | 3.68                    |
| For Work In Restricted Working Space, Add   | 3.68                      |                         |
| 23 05 29 00-0867 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....      | 17.25                     | 3.72                    |
| For Work In Restricted Working Space, Add   | 3.72                      |                         |
| 23 05 29 00-0868 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....  | 17.60                     | 3.77                    |
| For Work In Restricted Working Space, Add   | 3.77                      |                         |
| 23 05 29 00-0869 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....      | 18.21                     | 3.81                    |
| For Work In Restricted Working Space, Add   | 3.81                      |                         |
| 23 05 29 00-0870 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....      | 19.64                     | 3.90                    |
| For Work In Restricted Working Space, Add   | 3.91                      |                         |
| 23 05 29 00-0871 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....      | 22.70                     | 4.00                    |
| For Work In Restricted Working Space, Add   | 4.00                      |                         |
| 23 05 29 00-0872 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....     | 24.20                     | 4.09                    |
| For Work In Restricted Working Space, Add   | 4.09                      |                         |
| 23 05 29 00-0873 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....    | 29.85                     | 4.18                    |
| For Work In Restricted Working Space, Add   | 4.18                      |                         |
| 23 05 29 00-0874 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....    | 35.05                     | 4.22                    |
| For Work In Restricted Working Space, Add   | 4.23                      |                         |
| <b>23 05 29 00-0875 Pipe Covering Protection Saddle</b> (23 05 29 00-0847)  |                           |                         |
| Note: Sizes are pipe sizes.   |                           |                         |
| <b>23 05 29 00-0876 Saddle, For 1" Insulation (Cooper B-Line B3160)</b> (23 05 29 00-0875)                                |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0877 EA 3/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                           | 28.29                     | 5.05                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.05                      |                         |
| 23 05 29 00-0878 EA 1" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                             | 28.44                     | 5.10                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.09                      |                         |
| 23 05 29 00-0879 EA 1-1/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                         | 28.58                     | 5.14                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.14                      |                         |
| 23 05 29 00-0880 EA 1-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                         | 29.83                     | 5.22                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.22                      |                         |
| 23 05 29 00-0881 EA 2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                             | 29.98                     | 5.26                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.27                      |                         |
| 23 05 29 00-0882 EA 2-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                         | 30.88                     | 5.35                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.35                      |                         |
| 23 05 29 00-0883 EA 3" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                             | 33.88                     | 5.43                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.44                      |                         |
| 23 05 29 00-0884 EA 4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                             | 37.50                     | 5.53                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.52                      |                         |
| 23 05 29 00-0885 EA 6" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                             | 41.69                     | 5.69                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.69                      |                         |
| 23 05 29 00-0886 EA 8" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                             | 49.81                     | 5.90                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.91                      |                         |
| 23 05 29 00-0887 EA 10" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                            | 55.12                     | 5.99                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.99                      |                         |
| 23 05 29 00-0888 EA 12" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                            | 64.45                     | 5.99                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.12                      |                         |
| 23 05 29 00-0889 EA 14" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....                            | 69.92                     | 6.21                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.21                      |                         |
| <b>23 05 29 00-0890 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small></b> |                           |                         |
| 23 05 29 00-0891 EA 3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                       | 31.34                     | 5.05                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.05                      |                         |
| 23 05 29 00-0892 EA 1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                         | 31.49                     | 5.10                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.09                      |                         |
| 23 05 29 00-0893 EA 1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                     | 31.63                     | 5.14                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.14                      |                         |
| 23 05 29 00-0894 EA 1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                     | 32.67                     | 5.22                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.22                      |                         |
| 23 05 29 00-0895 EA 2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                         | 34.94                     | 5.26                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.27                      |                         |
| 23 05 29 00-0896 EA 2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                     | 37.34                     | 5.35                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.35                      |                         |
| 23 05 29 00-0897 EA 3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                         | 37.98                     | 5.43                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.44                      |                         |
| 23 05 29 00-0898 EA 4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                         | 42.54                     | 5.43                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.52                      |                         |
| 23 05 29 00-0899 EA 6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                         | 47.39                     | 5.69                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.69                      |                         |
| 23 05 29 00-0900 EA 8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                         | 55.40                     | 5.90                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.91                      |                         |
| 23 05 29 00-0901 EA 10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                        | 61.73                     | 5.99                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.99                      |                         |
| 23 05 29 00-0902 EA 12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                        | 72.60                     | 6.12                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.12                      |                         |
| 23 05 29 00-0903 EA 14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....                        | 79.07                     | 6.21                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.21                      |                         |
| <b>23 05 29 00-0904 Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small></b>     |                           |                         |
| 23 05 29 00-0905 EA 3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                           | 33.45                     | 5.31                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.31                      |                         |
| 23 05 29 00-0906 EA 1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                             | 33.59                     | 5.35                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.35                      |                         |
| 23 05 29 00-0907 EA 1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                         | 35.17                     | 5.39                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.39                      |                         |
| 23 05 29 00-0908 EA 1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                         | 36.17                     | 5.48                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.48                      |                         |
| 23 05 29 00-0909 EA 2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                             | 37.03                     | 5.53                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.52                      |                         |
| 23 05 29 00-0910 EA 2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                         | 37.32                     | 5.62                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.61                      |                         |
| 23 05 29 00-0911 EA 3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                             | 39.24                     | 5.71                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.69                      |                         |
| 23 05 29 00-0912 EA 4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                             | 41.17                     | 5.79                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.78                      |                         |
| 23 05 29 00-0913 EA 6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                             | 51.31                     | 5.97                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.99                      |                         |
| 23 05 29 00-0914 EA 8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                             | 57.67                     | 6.21                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.21                      |                         |
| 23 05 29 00-0915 EA 10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                            | 60.36                     | 6.29                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.29                      |                         |
| 23 05 29 00-0916 EA 12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                            | 79.70                     | 6.42                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.42                      |                         |
| 23 05 29 00-0917 EA 14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....                            | 87.75                     | 6.52                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.51                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 29 00-0918 EA 16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....<br><i>For Work In Restricted Working Space, Add</i>         | 96.09<br>6.68             | 6.68                    |
| 23 05 29 00-0919 EA 18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....<br><i>For Work In Restricted Working Space, Add</i>         | 104.42<br>6.85            | 6.85                    |
| 23 05 29 00-0920 EA 20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....<br><i>For Work In Restricted Working Space, Add</i>         | 114.11<br>7.02            | 7.02                    |
| 23 05 29 00-0921 EA 24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....<br><i>For Work In Restricted Working Space, Add</i>         | 129.96<br>7.19            | 7.20                    |
| <b>23 05 29 00-0922 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) (23 05 29 00-0875)</b>  |                           |                         |
| 23 05 29 00-0923 EA 1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i> | 37.13<br>5.52             | 5.53                    |
| 23 05 29 00-0924 EA 1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i> | 39.02<br>5.61             | 5.61                    |
| 23 05 29 00-0925 EA 2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>     | 39.96<br>5.65             | 5.67                    |
| 23 05 29 00-0926 EA 2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i> | 41.04<br>5.74             | 5.75                    |
| 23 05 29 00-0927 EA 3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>     | 41.47<br>5.87             | 5.85                    |
| 23 05 29 00-0928 EA 4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>     | 47.50<br>5.95             | 5.93                    |
| 23 05 29 00-0929 EA 6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>     | 53.81<br>6.12             | 6.12                    |
| 23 05 29 00-0930 EA 8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>     | 62.03<br>6.34             | 6.35                    |
| 23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 66.22<br>6.47             | 6.45                    |
| 23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 81.76<br>6.59             | 6.57                    |
| 23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 96.16<br>6.68             | 6.68                    |
| 23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 110.83<br>6.85            | 6.84                    |
| 23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 117.53<br>7.02            | 7.00                    |
| 23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 124.97<br>7.19            | 7.20                    |
| 23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) .....<br><i>For Work In Restricted Working Space, Add</i>    | 132.41<br>7.36            | 7.36                    |
| <b>23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)</b>  |                           |                         |
| 23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>          | 41.28<br>5.78             | 5.79                    |
| 23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) .....<br><i>For Work In Restricted Working Space, Add</i>     | 44.74<br>5.91             | 5.89                    |
| 23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>          | 46.54<br>5.99             | 5.97                    |
| 23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>          | 48.33<br>6.08             | 6.08                    |
| 23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>          | 54.96<br>6.25             | 6.26                    |
| 23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>          | 67.94<br>6.51             | 6.49                    |
| 23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 73.28<br>6.59             | 6.59                    |
| 23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 94.00<br>6.72             | 6.74                    |
| 23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 111.38<br>6.85            | 6.84                    |
| 23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 128.75<br>6.98            | 6.99                    |
| 23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 131.29<br>7.19            | 7.17                    |
| 23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 133.68<br>7.36            | 7.35                    |
| 23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....<br><i>For Work In Restricted Working Space, Add</i>         | 168.38<br>7.54            | 7.53                    |
| <b>23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)</b>  |                           |                         |
| 23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....<br><i>For Work In Restricted Working Space, Add</i>          | 46.10<br>5.91             | 5.92                    |
| 23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>     | 50.17<br>6.04             | 6.02                    |
| 23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....<br><i>For Work In Restricted Working Space, Add</i>          | 52.28<br>6.12             | 6.12                    |
| 23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....<br><i>For Work In Restricted Working Space, Add</i>          | 54.47<br>6.21             | 6.21                    |
| 23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....<br><i>For Work In Restricted Working Space, Add</i>          | 65.65<br>6.42             | 6.40                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>        | 76.83<br>6.64             | 6.65                    |
| 23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 79.35<br>6.76             | 6.75                    |
| 23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 100.21<br>6.89            | 6.89                    |
| 23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 120.66<br>6.98            | 6.98                    |
| 23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 141.41<br>7.15            | 7.16                    |
| 23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 171.95<br>7.32            | 7.34                    |
| 23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 202.39<br>7.54            | 7.52                    |
| 23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 216.26<br>7.71            | 7.70                    |
| 23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 227.45<br>7.92            | 7.91                    |
| 23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) .....<br><i>For Work In Restricted Working Space, Add</i>       | 235.75<br>8.09            | 8.10                    |
| <b>23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) <small>(23 05 29 00-0847)</small></b>                               |                           |                         |
| 23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....  | 102.66                    | 19.14                   |
| 23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....  | 109.65                    | 22.21                   |
| 23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....  | 132.70                    | 25.28                   |
| 23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....  | 138.86                    | 27.57                   |
| 23 05 29 00-0973 EA 6" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....  | 154.11                    | 30.64                   |
| 23 05 29 00-0974 EA 8" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....  | 177.03                    | 38.29                   |
| 23 05 29 00-0975 EA 10" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....   | 232.02                    | 51.31                   |
| 23 05 29 00-0976 EA 12" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....   | 293.84                    | 76.59                   |
| <b>23 05 29 00-0977 Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small></b>                                       |                           |                         |
| 23 05 29 00-0978 EA 2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 124.66                    | 19.14                   |
| 23 05 29 00-0979 EA 3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 130.14                    | 22.21                   |
| 23 05 29 00-0980 EA 3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 139.59                    | 23.74                   |
| 23 05 29 00-0981 EA 4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 143.17                    | 25.28                   |
| 23 05 29 00-0982 EA 5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 150.91                    | 27.57                   |
| 23 05 29 00-0983 EA 6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 160.75                    | 30.64                   |
| 23 05 29 00-0984 EA 8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....  | 203.80                    | 38.29                   |
| 23 05 29 00-0985 EA 10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....   | 274.61                    | 51.31                   |
| 23 05 29 00-0986 EA 12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....   | 364.35                    | 76.59                   |
| <b>23 05 29 00-0987 Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small></b>  |                           |                         |
| 23 05 29 00-0988 EA 2-1/2" Pipe Saddle Support (Cooper B-Line B3095) .....   | 68.90                     | 19.14                   |
| 23 05 29 00-0989 EA 3" Pipe Saddle Support (Cooper B-Line B3095) .....   | 74.38                     | 22.21                   |
| 23 05 29 00-0990 EA 3-1/2" Pipe Saddle Support (Cooper B-Line B3095) .....   | 107.26                    | 23.74                   |
| 23 05 29 00-0991 EA 4" Pipe Saddle Support (Cooper B-Line B3095) .....   | 110.84                    | 25.28                   |
| 23 05 29 00-0992 EA 5" Pipe Saddle Support (Cooper B-Line B3095) .....   | 121.60                    | 27.57                   |
| 23 05 29 00-0993 EA 6" Pipe Saddle Support (Cooper B-Line B3095) .....   | 134.84                    | 30.64                   |
| 23 05 29 00-0994 EA 8" Pipe Saddle Support (Cooper B-Line B3095) .....   | 156.32                    | 38.29                   |
| 23 05 29 00-0995 EA 10" Pipe Saddle Support (Cooper B-Line B3095) .....  | 185.73                    | 51.31                   |
| 23 05 29 00-0996 EA 12" Pipe Saddle Support (Cooper B-Line B3095) .....  | 240.99                    | 76.59                   |
| <b>23 05 29 00-0997 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small></b>              |                           |                         |
| <small>Note: Insert is for use as isolated protective insulation at hangers.</small>   |                           |                         |
| <b>23 05 29 00-0998 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small></b>     |                           |                         |
| 23 05 29 00-0999 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                 | 20.80                     | 9.46                    |
| 23 05 29 00-1000 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                 | 21.10                     | 9.46                    |
| 23 05 29 00-1001 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                   | 21.18                     | 9.46                    |
| 23 05 29 00-1002 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....               | 21.48                     | 9.46                    |
| 23 05 29 00-1003 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....               | 22.96                     | 10.04                   |
| 23 05 29 00-1004 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                   | 23.95                     | 10.34                   |
| 23 05 29 00-1005 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....               | 25.07                     | 10.78                   |
| 23 05 29 00-1006 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                   | 26.31                     | 11.21                   |
| 23 05 29 00-1007 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                   | 28.35                     | 11.64                   |
| 23 05 29 00-1008 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                   | 28.99                     | 10.04                   |
| 23 05 29 00-1009 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                   | 43.59                     | 13.10                   |
| 23 05 29 00-1010 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                  | 51.49                     | 15.43                   |
| 23 05 29 00-1011 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                  | 58.86                     | 17.91                   |
| 23 05 29 00-1012 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....                  | 65.48                     | 18.49                   |
| <b>23 05 29 00-1013 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small></b> |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |    |   |       |       |
|------------------|----|---|-------|-------|
| 23 05 29 00-1014 | EA | 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 17.45 | 7.14  |
| 23 05 29 00-1015 | EA | 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 18.94 | 7.14  |
| 23 05 29 00-1016 | EA | 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 19.34 | 7.28  |
| 23 05 29 00-1017 | EA | 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 19.93 | 7.43  |
| 23 05 29 00-1018 | EA | 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 20.49 | 7.43  |
| 23 05 29 00-1019 | EA | 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 21.47 | 7.72  |
| 23 05 29 00-1020 | EA | 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 22.65 | 8.00  |
| 23 05 29 00-1021 | EA | 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 23.27 | 8.15  |
| 23 05 29 00-1022 | EA | 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 25.53 | 8.88  |
| 23 05 29 00-1023 | EA | 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 39.02 | 15.29 |
| 23 05 29 00-1024 | EA | 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 34.21 | 11.50 |
| 23 05 29 00-1025 | EA | 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 41.27 | 13.54 |
| 23 05 29 00-1026 | EA | 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 46.98 | 15.57 |
| 23 05 29 00-1027 | EA | 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 55.61 | 18.78 |

**23 05 29 00-1028 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate**

(23 05 29 00-0997)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 23 05 29 00-1029 | EA | 1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 23.44  | 8.15  |
| 23 05 29 00-1030 | EA | 3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 23.68  | 8.15  |
| 23 05 29 00-1031 | EA | 1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 24.41  | 8.30  |
| 23 05 29 00-1032 | EA | 1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 25.05  | 8.45  |
| 23 05 29 00-1033 | EA | 1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 25.72  | 8.59  |
| 23 05 29 00-1034 | EA | 2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 26.70  | 8.88  |
| 23 05 29 00-1035 | EA | 2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 28.05  | 9.17  |
| 23 05 29 00-1036 | EA | 3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 29.33  | 9.46  |
| 23 05 29 00-1037 | EA | 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 32.08  | 10.04 |
| 23 05 29 00-1038 | EA | 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 36.66  | 11.36 |
| 23 05 29 00-1039 | EA | 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 57.82  | 19.37 |
| 23 05 29 00-1040 | EA | 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 63.79  | 22.42 |
| 23 05 29 00-1041 | EA | 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 73.89  | 26.50 |
| 23 05 29 00-1042 | EA | 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 82.87  | 29.70 |
| 23 05 29 00-1043 | EA | 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 92.69  | 33.49 |
| 23 05 29 00-1044 | EA | 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 106.65 | 39.31 |
| 23 05 29 00-1045 | EA | 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 118.44 | 43.68 |
| 23 05 29 00-1046 | EA | 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 133.88 | 49.51 |

**23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate**

(23 05 29 00-0997)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 23 05 29 00-1048 | EA | 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 26.88  | 9.46  |
| 23 05 29 00-1049 | EA | 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 27.15  | 9.46  |
| 23 05 29 00-1050 | EA | 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 28.05  | 9.61  |
| 23 05 29 00-1051 | EA | 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 28.70  | 9.75  |
| 23 05 29 00-1052 | EA | 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 29.36  | 9.75  |
| 23 05 29 00-1053 | EA | 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 30.56  | 10.20 |
| 23 05 29 00-1054 | EA | 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 32.10  | 10.49 |
| 23 05 29 00-1055 | EA | 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 33.56  | 10.92 |
| 23 05 29 00-1056 | EA | 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 36.68  | 11.50 |
| 23 05 29 00-1057 | EA | 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 41.96  | 13.10 |
| 23 05 29 00-1058 | EA | 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 53.75  | 14.56 |
| 23 05 29 00-1059 | EA | 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 63.73  | 16.74 |
| 23 05 29 00-1060 | EA | 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 73.84  | 20.82 |
| 23 05 29 00-1061 | EA | 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 82.86  | 22.86 |
| 23 05 29 00-1062 | EA | 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 99.33  | 29.12 |
| 23 05 29 00-1063 | EA | 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 106.23 | 30.58 |
| 23 05 29 00-1064 | EA | 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 120.76 | 34.95 |
| 23 05 29 00-1065 | EA | 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 142.93 | 42.23 |

**23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate**

(23 05 29 00-0997)

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 23 05 29 00-1067 | EA | 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 52.88  | 9.75  |
| 23 05 29 00-1068 | EA | 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....   | 62.77  | 10.20 |
| 23 05 29 00-1069 | EA | 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 65.11  | 10.20 |
| 23 05 29 00-1070 | EA | 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 66.65  | 10.49 |
| 23 05 29 00-1071 | EA | 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 68.45  | 10.78 |
| 23 05 29 00-1072 | EA | 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 70.46  | 10.92 |
| 23 05 29 00-1073 | EA | 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate..... | 74.12  | 11.21 |
| 23 05 29 00-1074 | EA | 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 77.35  | 11.94 |
| 23 05 29 00-1075 | EA | 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 85.08  | 12.38 |
| 23 05 29 00-1076 | EA | 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 97.31  | 15.14 |
| 23 05 29 00-1077 | EA | 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....     | 124.91 | 16.60 |
| 23 05 29 00-1078 | EA | 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 148.40 | 17.48 |
| 23 05 29 00-1079 | EA | 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 170.82 | 22.57 |
| 23 05 29 00-1080 | EA | 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 192.09 | 24.02 |
| 23 05 29 00-1081 | EA | 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 230.95 | 32.03 |
| 23 05 29 00-1082 | EA | 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 248.58 | 34.95 |
| 23 05 29 00-1083 | EA | 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 281.42 | 37.86 |
| 23 05 29 00-1084 | EA | 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....    | 330.71 | 46.59 |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate' and 'Equipment Housekeeping Pads'.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 29 00-1145 EA 1-1/4" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i> | 71.86<br>17.06            | 26.72                   |
| 23 05 29 00-1146 EA 1-1/2" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i> | 72.11<br>17.06            | 26.72                   |
| 23 05 29 00-1147 EA 2" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>     | 73.43<br>17.31            | 26.94                   |
| 23 05 29 00-1148 EA 2-1/2" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i> | 79.50<br>16.03            | 26.24                   |
| 23 05 29 00-1149 EA 3" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>     | 81.60<br>16.28            | 26.99                   |
| 23 05 29 00-1150 EA 4" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>     | 99.00<br>17.98            | 30.48                   |
| 23 05 29 00-1151 EA 6" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>     | 147.00<br>23.62           | 39.38                   |
| 23 05 29 00-1152 EA 8" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>     | 167.90<br>27.41           | 45.68                   |
| 23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>    | 228.56<br>34.38           | 58.03                   |
| 23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly .....<br>Note: Includes hanger, rod, nuts, washers and clamp.<br><i>For Work In Restricted Working Space, Add</i>    | 248.76<br>37.53           | 62.44                   |
| <b>23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)</b>   |                           |                         |
| <b>23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)</b>   |                           |                         |
| 23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices .....   | 3.54                      | 2.23                    |
| 23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices .....   | 4.61                      | 2.78                    |
| 23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices .....   | 5.67                      | 3.33                    |
| 23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices .....  | 7.80                      | 4.14                    |
| 23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices .....  | 8.69                      | 4.45                    |
| 23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices .....   | 11.56                     | 4.99                    |
| 23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices .....   | 14.38                     | 6.08                    |
| 23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices .....   | 18.55                     | 7.13                    |
| 23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices .....   | 22.14                     | 8.34                    |
| <b>23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)</b>   |                           |                         |
| 23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices .....   | 9.27                      | 4.93                    |
| 23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices .....  | 15.76                     | 7.10                    |
| 23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices .....  | 19.66                     | 8.53                    |
| 23 05 29 00-1170 LF C5 x 6.7 - 5" Wide Channels For Hanger Devices .....   | 23.54                     | 9.94                    |
| 23 05 29 00-1171 LF C6 x 8.2 - 6" Wide Channels For Hanger Devices .....   | 28.49                     | 11.94                   |
| 23 05 29 00-1172 LF C7 x 9.8 - 7" Wide Channels For Hanger Devices .....   | 33.98                     | 14.21                   |
| 23 05 29 00-1173 LF C8 x 11.5 - 8" Wide Channels For Hanger Devices .....  | 38.49                     | 15.64                   |
| <b>23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)</b>  |                           |                         |
| 23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices .....   | 10.45                     | 6.94                    |
| 23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices .....   | 12.58                     | 8.21                    |
| 23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices .....   | 17.81                     | 9.47                    |
| 23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices .....   | 22.95                     | 12.63                   |
| 23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices .....   | 31.28                     | 15.15                   |
| 23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices .....   | 39.26                     | 19.58                   |
| <b>23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)</b>  |                           |                         |
| 23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices .....   | 17.83                     | 9.47                    |
| 23 05 29 00-1183 LF 2-1/16" x 3" x 2-11/16" Structural Zee For Hanger Devices .....  | 21.28                     | 9.47                    |
| 23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices .....   | 31.04                     | 9.47                    |
| 23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices .....   | 39.10                     | 9.47                    |
| 23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices .....   | 47.48                     | 9.47                    |
| <b>23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)</b>   |                           |                         |
| 23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices .....  | 22.34                     | 13.89                   |
| 23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices .....  | 25.63                     | 15.15                   |
| 23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices .....  | 29.51                     | 16.42                   |
| 23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices .....  | 32.25                     | 18.31                   |
| 23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices .....  | 38.17                     | 19.58                   |
| 23 05 29 00-1193 LF 8" I-beam (Junior) For Hanger Devices .....  | 41.30                     | 20.84                   |



| MINOR | CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|---------------------|------------------------|----------------------|
|-------|---------------------|------------------------|----------------------|

**23 05 33 Heat Tracing for HVAC Piping** (23 05)

See CSI section 23 83 13 00-0000 for heat tracing cables.

**23 05 48 Vibration and Seismic Controls for HVAC** (23 05)

**23 05 48 13 Vibration Controls for HVAC** (23 05 48)

**23 05 48 13-0001 Unhoused Stable Steel Spring Isolators** (23 05 48 13)  
 Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.

|                  |    |  |        |  |       |
|------------------|----|--|--------|--|-------|
| 23 05 48 13-0002 | EA | 60 LB Unhoused Steel Spring Isolator.....    | 124.10 |  | 42.87 |
| 23 05 48 13-0003 | EA | 115 LB Unhoused Steel Spring Isolator.....   | 130.35 |  | 42.87 |
| 23 05 48 13-0004 | EA | 1,130 LB Unhoused Steel Spring Isolator..... | 151.07 |  | 42.87 |

**23 05 48 13-0005 Housed Stable Steel Spring Isolators** (23 05 48 13)  
 Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only.  
 Mason Industries, Inc.

|                  |    |  |          |  |       |
|------------------|----|--|----------|--|-------|
| 23 05 48 13-0006 | EA | To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....   | 523.14   |  | 42.87 |
| 23 05 48 13-0007 | EA | To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection..... | 590.54   |  | 42.87 |
| 23 05 48 13-0008 | EA | To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection..... | 624.24   |  | 42.87 |
| 23 05 48 13-0009 | EA | To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection..... | 759.03   |  | 42.87 |
| 23 05 48 13-0010 | EA | To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection..... | 792.73   |  | 42.87 |
| 23 05 48 13-0011 | EA | To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....   | 582.12   |  | 42.87 |
| 23 05 48 13-0012 | EA | To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....   | 641.09   |  | 42.87 |
| 23 05 48 13-0013 | EA | To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection..... | 683.21   |  | 42.87 |
| 23 05 48 13-0014 | EA | To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection..... | 876.97   |  | 42.87 |
| 23 05 48 13-0015 | EA | To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection..... | 952.79   |  | 42.87 |
| 23 05 48 13-0016 | EA | To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection..... | 1,129.71 |  | 42.87 |

**23 05 48 13-0017 Vibration Isolators** (23 05 48 13)

**23 05 48 13-0018 Spring And Rubber Hanger For 1" Deflection** (23 05 48 13-0017)

|                  |    |  |        |  |       |
|------------------|----|--|--------|--|-------|
| 23 05 48 13-0019 | EA | 50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size.....    | 146.86 |  | 27.57 |
| 23 05 48 13-0020 | EA | 600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size..... | 292.55 |  | 30.64 |

**23 05 48 13-0021 Rubber-In-Shear Isolator Hanger** (23 05 48 13-0017)

|                  |    |   |        |  |       |
|------------------|----|---|--------|--|-------|
| 23 05 48 13-0022 | EA | 45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size.....  | 86.22  |  | 22.98 |
| 23 05 48 13-0023 | EA | 130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size..... | 110.40 |  | 27.57 |

**23 05 48 13-0024 Spring Hanger For 1" Deflection** (23 05 48 13-0017)

|                  |    |  |       |  |       |
|------------------|----|--|-------|--|-------|
| 23 05 48 13-0025 | EA | 50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size..... | 98.67 |  | 27.57 |
|------------------|----|--|-------|--|-------|

**23 05 48 13-0026 Rubber-In-Shear Vibration Isolator** (23 05 48 13-0017)

|                  |    |  |        |  |       |
|------------------|----|--|--------|--|-------|
| 23 05 48 13-0027 | EA | 45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection.....    | 181.99 |  | 52.08 |
| 23 05 48 13-0028 | EA | 130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection.....   | 237.29 |  | 52.08 |
| 23 05 48 13-0029 | EA | 550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection..... | 427.09 |  | 52.08 |

**23 05 48 13-0030 Two-Piece Spring Type Vibration Isolator** (23 05 48 13-0017)  
 Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.

|                  |    |  |        |  |       |
|------------------|----|--|--------|--|-------|
| 23 05 48 13-0031 | EA | 50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....     | 158.68 |  | 52.08 |
| 23 05 48 13-0032 | EA | >1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator..... | 162.80 |  | 52.08 |

**23 05 48 13-0033 Open Double Spring Type Vibration Isolator** (23 05 48 13-0017)  
 Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.

|                  |    |  |        |  |       |
|------------------|----|--|--------|--|-------|
| 23 05 48 13-0034 | EA | 150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....     | 114.68 |  | 26.04 |
| 23 05 48 13-0035 | EA | 500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....   | 114.68 |  | 26.04 |
| 23 05 48 13-0036 | EA | 1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator..... | 128.42 |  | 26.04 |
| 23 05 48 13-0037 | EA | 1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator..... | 128.42 |  | 26.04 |
| 23 05 48 13-0038 | EA | 2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator..... | 190.56 |  | 26.04 |

**23 05 48 13-0039 Isolation Pads** (23 05 48 13-0017)

**23 05 48 13-0040 Laminated Neoprene And Cork Isolation Pad** (23 05 48 13-0039)

|                  |    |  |       |  |      |
|------------------|----|--|-------|--|------|
| 23 05 48 13-0041 | EA | 2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad.....   | 8.98  |  | 3.83 |
| 23 05 48 13-0042 | EA | 3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad.....   | 11.14 |  | 3.98 |
| 23 05 48 13-0043 | EA | 4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad.....   | 13.65 |  | 4.13 |
| 23 05 48 13-0044 | EA | 12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad..... | 49.48 |  | 4.75 |
| 23 05 48 13-0045 | EA | 18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad..... | 93.23 |  | 5.36 |

**23 05 48 13-0046 Neoprene And Steel Plate Isolation Pad** (23 05 48 13-0039)

|                  |    |  |        |  |      |
|------------------|----|--|--------|--|------|
| 23 05 48 13-0047 | EA | 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad..... | 196.55 |  | 3.83 |
| 23 05 48 13-0048 | EA | 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad..... | 217.47 |  | 3.83 |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|  |  |  |          |          |
|--|--|--|----------|----------|
| <b>23 05 48 13-0049</b>                        | <b>Neoprene Isolation Pad</b> <small>(23 05 48 13-0039)</small>                                      |  |          |          |
| 23 05 48 13-0050                               | EA   | 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad  | 8.47     | 3.83     |
| 23 05 48 13-0051                               | EA   | 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad  | 9.51     | 3.83     |
| 23 05 48 13-0052                               | EA   | 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad  | 11.15    | 3.83     |
| 23 05 48 13-0053                               | EA   | 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad  | 48.71    | 4.60     |
| 23 05 48 13-0054                               | EA   | 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad  | 87.74    | 5.36     |
| <b>23 05 48 13-0055</b>                        | <b>Threaded Flexible Bronze Hose Connectors</b> <small>(23 05 48 13)</small>                         |  |          |          |
| Note: Includes hex threaded nipple ends.       |  |  |          |          |
| 23 05 48 13-0056                               | EA   | 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends    | 84.90    | 24.50    |
| 23 05 48 13-0057                               | EA   | 1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends   | 102.09   | 33.69    |
| 23 05 48 13-0058                               | EA   | 3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends   | 124.98   | 41.36    |
| 23 05 48 13-0059                               | EA   | 1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends     | 146.01   | 49.02    |
| 23 05 48 13-0060                               | EA   | 1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends | 168.03   | 64.33    |
| 23 05 48 13-0061                               | EA   | 1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends | 189.76   | 68.48    |
| 23 05 48 13-0062                               | EA   | 2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends     | 251.68   | 81.19    |
| 23 05 48 13-0063                               | EA   | 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends | 341.96   | 126.52   |
| <b>23 05 48 13-0064</b>                        | <b>Weld End Flexible Hose Connectors</b> <small>(23 05 48 13)</small>                                |  |          |          |
| 23 05 48 13-0065                               | EA   | 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends  | 292.78   | 87.92    |
| 23 05 48 13-0066                               | EA   | 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends  | 340.29   | 96.50    |
| 23 05 48 13-0067                               | EA   | 1" Diameter x 10" Flexible Hose Connection, Weld Ends  | 381.38   | 102.17   |
| 23 05 48 13-0068                               | EA   | 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends  | 427.16   | 116.42   |
| 23 05 48 13-0069                               | EA   | 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends  | 482.48   | 125.61   |
| 23 05 48 13-0070                               | EA   | 2" Diameter x 14" Flexible Hose Connection, Weld Ends  | 607.51   | 163.44   |
| 23 05 48 13-0071                               | EA   | 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends  | 893.10   | 183.82   |
| 23 05 48 13-0072                               | EA   | 3" Diameter x 16" Flexible Hose Connection, Weld Ends  | 1,095.60 | 206.79   |
| 23 05 48 13-0073                               | EA   | 4" Diameter x 18" Flexible Hose Connection, Weld Ends  | 1,523.57 | 306.36   |
| <b>23 05 48 13-0074</b>                        | <b>Flanged Flexible Hose Connectors</b> <small>(23 05 48 13)</small>                                 |  |          |          |
| <b>23 05 48 13-0075</b>                        | <b>Flanged Flexible Molded Rubber Hose Connectors</b> <small>(23 05 48 13-0074)</small>              |  |          |          |
| Note: With helical wire reinforcement 150 PSI. |  |  |          |          |
| 23 05 48 13-0076                               | EA   | 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                             | 258.55   | 114.88   |
| 23 05 48 13-0077                               | EA   | 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                 | 281.03   | 127.60   |
| 23 05 48 13-0078                               | EA   | 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                             | 476.07   | 254.89   |
| 23 05 48 13-0079                               | EA   | 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                 | 671.03   | 379.12   |
| 23 05 48 13-0080                               | EA   | 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                 | 871.02   | 489.40   |
| 23 05 48 13-0081                               | EA   | 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                 | 1,061.91 | 508.90   |
| 23 05 48 13-0082                               | EA   | 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                 | 1,276.16 | 581.24   |
| 23 05 48 13-0083                               | EA   | 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                | 1,628.26 | 691.70   |
| 23 05 48 13-0084                               | EA   | 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI                                | 4,241.68 | 865.14   |
| <b>23 05 48 13-0085</b>                        | <b>Flanged Flexible Corrugated Stainless Steel Hose Connectors</b> <small>(23 05 48 13-0074)</small> |  |          |          |
| Note: With braided metal wire.                 |  |  |          |          |
| 23 05 48 13-0086                               | EA   | 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation   | 207.27   | 104.46   |
| 23 05 48 13-0087                               | EA   | 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation     | 218.09   | 143.68   |
| 23 05 48 13-0088                               | EA   | 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation | 385.43   | 191.47   |
| 23 05 48 13-0089                               | EA   | 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation     | 515.64   | 287.21   |
| 23 05 48 13-0090                               | EA   | 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation | 557.40   | 316.00   |
| 23 05 48 13-0091                               | EA   | 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation     | 653.71   | 382.64   |
| 23 05 48 13-0092                               | EA   | 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation     | 837.12   | 489.87   |
| 23 05 48 13-0093                               | EA   | 6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation     | 1,133.86 | 609.47   |
| 23 05 48 13-0094                               | EA   | 8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation     | 1,771.32 | 814.25   |
| 23 05 48 13-0095                               | EA   | 10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation    | 2,078.08 | 941.55   |
| 23 05 48 13-0096                               | EA   | 12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation    | 2,596.95 | 1,017.81 |
| <b>23 05 48 13-0097</b>                        | <b>Flanged Flexible Molded Teflon Hose Connectors</b> <small>(23 05 48 13-0074)</small>              |  |          |          |
| Note: 150 PSI.                                 |  |  |          |          |
| 23 05 48 13-0098                               | EA   | 2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation  | 1,010.78 | 222.11   |
| 23 05 48 13-0099                               | EA   | 3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation       | 1,137.72 | 260.40   |
| 23 05 48 13-0100                               | EA   | 4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation       | 1,740.09 | 437.65   |
| 23 05 48 13-0101                               | EA   | 6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation           | 2,118.41 | 508.90   |
| 23 05 48 13-0102                               | EA   | 8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation           | 2,750.15 | 624.26   |



| MINOR CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---------------------------|------------------------|----------------------|
|---------------------------|------------------------|----------------------|

23 05 48 13-0103

Flexible Hose Connectors Braided Metal Hose Type (23 05 48 13)

23 05 48 13-0104

Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)

Note: MPT connection.

|                  |    |   |          |       |
|------------------|----|---|----------|-------|
| 23 05 48 13-0105 | EA | 1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 38.68    | 3.07  |
| 23 05 48 13-0106 | EA | 1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 45.85    | 3.07  |
| 23 05 48 13-0107 | EA | 1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 51.46    | 3.98  |
| 23 05 48 13-0108 | EA | 1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 62.03    | 3.98  |
| 23 05 48 13-0109 | EA | 3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 51.54    | 3.68  |
| 23 05 48 13-0110 | EA | 3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 61.78    | 3.68  |
| 23 05 48 13-0111 | EA | 3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 71.12    | 4.74  |
| 23 05 48 13-0112 | EA | 3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....             | 87.06    | 4.74  |
| 23 05 48 13-0113 | EA | 1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 69.91    | 4.29  |
| 23 05 48 13-0114 | EA | 1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 76.19    | 4.29  |
| 23 05 48 13-0115 | EA | 1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 90.94    | 5.67  |
| 23 05 48 13-0116 | EA | 1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 114.25   | 5.67  |
| 23 05 48 13-0117 | EA | 1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 137.39   | 5.67  |
| 23 05 48 13-0118 | EA | 1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 160.60   | 5.67  |
| 23 05 48 13-0119 | EA | 1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection..... | 99.18    | 5.50  |
| 23 05 48 13-0120 | EA | 1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection..... | 108.96   | 5.50  |
| 23 05 48 13-0121 | EA | 1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection..... | 138.79   | 5.50  |
| 23 05 48 13-0122 | EA | 1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection..... | 192.75   | 7.33  |
| 23 05 48 13-0123 | EA | 1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection..... | 222.80   | 7.33  |
| 23 05 48 13-0124 | EA | 1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection..... | 262.79   | 7.33  |
| 23 05 48 13-0125 | EA | 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 135.21   | 6.63  |
| 23 05 48 13-0126 | EA | 2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 155.66   | 6.63  |
| 23 05 48 13-0127 | EA | 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 195.27   | 6.63  |
| 23 05 48 13-0128 | EA | 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 260.41   | 8.88  |
| 23 05 48 13-0129 | EA | 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 320.77   | 8.88  |
| 23 05 48 13-0130 | EA | 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 381.08   | 8.88  |
| 23 05 48 13-0131 | EA | 2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....           | 186.87   | 8.32  |
| 23 05 48 13-0132 | EA | 2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....           | 212.06   | 7.89  |
| 23 05 48 13-0133 | EA | 2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....           | 237.50   | 7.89  |
| 23 05 48 13-0134 | EA | 2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....           | 293.41   | 10.57 |
| 23 05 48 13-0135 | EA | 2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....           | 344.57   | 10.57 |
| 23 05 48 13-0136 | EA | 2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....           | 394.13   | 10.57 |
| 23 05 48 13-0137 | EA | 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 293.43   | 10.57 |
| 23 05 48 13-0138 | EA | 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 327.41   | 10.57 |
| 23 05 48 13-0139 | EA | 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 1,564.68 | 10.57 |
| 23 05 48 13-0140 | EA | 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 1,883.01 | 14.10 |
| 23 05 48 13-0141 | EA | 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 505.56   | 14.10 |
| 23 05 48 13-0142 | EA | 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 572.43   | 14.10 |
| 23 05 48 13-0143 | EA | 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 529.95   | 11.25 |
| 23 05 48 13-0144 | EA | 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 569.66   | 11.25 |
| 23 05 48 13-0145 | EA | 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 609.36   | 11.25 |
| 23 05 48 13-0146 | EA | 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 697.75   | 14.99 |
| 23 05 48 13-0147 | EA | 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 776.86   | 14.99 |
| 23 05 48 13-0148 | EA | 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....               | 857.67   | 14.99 |

23 05 48 13-0149

Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0103)

Note: Over braided carbon steel connection.

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 23 05 48 13-0150 | EA | 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 160.30 | 6.71  |
| 23 05 48 13-0151 | EA | 2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 192.79 | 6.71  |
| 23 05 48 13-0152 | EA | 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 224.66 | 6.71  |
| 23 05 48 13-0153 | EA | 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 294.15 | 8.99  |
| 23 05 48 13-0154 | EA | 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 358.77 | 8.99  |
| 23 05 48 13-0155 | EA | 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 423.31 | 8.99  |
| 23 05 48 13-0156 | EA | 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded..... | 181.90 | 7.89  |
| 23 05 48 13-0157 | EA | 2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded..... | 215.86 | 7.89  |
| 23 05 48 13-0158 | EA | 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded..... | 249.97 | 7.89  |
| 23 05 48 13-0159 | EA | 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded..... | 324.04 | 10.57 |
| 23 05 48 13-0160 | EA | 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded..... | 391.98 | 10.57 |
| 23 05 48 13-0161 | EA | 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded..... | 458.98 | 10.57 |
| 23 05 48 13-0162 | EA | 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 194.42 | 10.57 |
| 23 05 48 13-0163 | EA | 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....           | 233.32 | 10.86 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 23 05 48 13-0164        | LF  | 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 272.78                    | 10.57                   |
| 23 05 48 13-0165        | EA  | 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 361.32                    | 14.10                   |
| 23 05 48 13-0166        | EA  | 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 439.80                    | 14.10                   |
| 23 05 48 13-0167        | EA  | 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 520.51                    | 14.10                   |
| 23 05 48 13-0168        | EA  | 6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 391.58                    | 20.55                   |
| 23 05 48 13-0169        | EA  | 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 571.47                    | 20.69                   |
| 23 05 48 13-0170        | EA  | 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 766.11                    | 27.25                   |
| 23 05 48 13-0171        | EA  | 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 946.08                    | 27.25                   |
| 23 05 48 13-0172        | EA  | 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 1,126.00                  | 27.25                   |
| 23 05 48 13-0173        | EA  | 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 666.87                    | 22.67                   |
| 23 05 48 13-0174        | EA  | 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 802.98                    | 22.67                   |
| 23 05 48 13-0175        | EA  | 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 1,088.02                  | 29.47                   |
| 23 05 48 13-0176        | EA  | 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 1,358.02                  | 29.47                   |
| 23 05 48 13-0177        | EA  | 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....             | 1,627.95                  | 29.47                   |
| 23 05 48 13-0178        | EA  | 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 716.33                    | 28.34                   |
| 23 05 48 13-0179        | EA  | 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 1,056.61                  | 28.34                   |
| 23 05 48 13-0180        | EA  | 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 1,414.69                  | 36.90                   |
| 23 05 48 13-0181        | EA  | 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 1,756.15                  | 36.90                   |
| 23 05 48 13-0182        | EA  | 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 2,096.18                  | 36.90                   |
| 23 05 48 13-0183        | EA  | 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 1,410.51                  | 34.26                   |
| 23 05 48 13-0184        | EA  | 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 1,835.17                  | 34.26                   |
| 23 05 48 13-0185        | EA  | 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 2,297.44                  | 46.10                   |
| 23 05 48 13-0186        | EA  | 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 2,725.83                  | 46.10                   |
| 23 05 48 13-0187        | EA  | 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....            | 3,156.22                  | 46.10                   |
| <b>23 05 48 13-0188</b> |     | <b>Braided Metal Hose Type Flexible Bronze Hose Connectors</b> <small>(23 05 48 13-0103)</small>   |                           |                         |
|                         |     | Note: Flanged end connection (carbon steel ends).  |                           |                         |
| 23 05 48 13-0189        | EA  | 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 694.89                    | 6.63                    |
| 23 05 48 13-0190        | EA  | 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 1,209.00                  | 187.93                  |
| 23 05 48 13-0191        | EA  | 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 1,503.44                  | 187.93                  |
| 23 05 48 13-0192        | EA  | 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 1,797.87                  | 187.93                  |
| 23 05 48 13-0193        | EA  | 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 2,092.43                  | 187.93                  |
| 23 05 48 13-0194        | EA  | 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) ..... | 1,070.84                  | 239.67                  |
| 23 05 48 13-0195        | EA  | 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) ..... | 1,381.11                  | 239.67                  |
| 23 05 48 13-0196        | EA  | 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) ..... | 1,691.49                  | 239.67                  |
| 23 05 48 13-0197        | EA  | 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) ..... | 2,002.00                  | 239.67                  |
| 23 05 48 13-0198        | EA  | 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) ..... | 2,307.07                  | 239.67                  |
| 23 05 48 13-0199        | EA  | 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 1,453.14                  | 401.80                  |
| 23 05 48 13-0200        | EA  | 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 1,815.30                  | 402.80                  |
| 23 05 48 13-0201        | EA  | 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 2,183.35                  | 401.80                  |
| 23 05 48 13-0202        | EA  | 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 2,594.85                  | 401.80                  |
| 23 05 48 13-0203        | EA  | 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 2,909.28                  | 401.80                  |
| 23 05 48 13-0204        | EA  | 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....           | 2,313.02                  | 513.66                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 3,133.59                  | 513.66                  |
| 23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 3,954.62                  | 515.51                  |
| 23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 4,775.30                  | 513.66                  |
| 23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 5,595.87                  | 513.66                  |
| 23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 3,888.91                  | 579.33                  |
| 23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 4,509.68                  | 579.33                  |
| 23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 5,740.47                  | 579.33                  |
| 23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 6,971.73                  | 579.33                  |
| 23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....  | 8,202.41                  | 579.33                  |
| 23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 6,529.99                  | 705.26                  |
| 23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 8,076.61                  | 705.26                  |
| 23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 9,633.62                  | 705.26                  |
| 23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 11,187.28                 | 705.26                  |
| 23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 12,442.92                 | 705.26                  |
| 23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 8,936.72                  | 856.39                  |
| 23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 10,899.34                 | 856.39                  |
| 23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 12,861.84                 | 856.39                  |
| 23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 14,824.34                 | 856.39                  |
| 23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)..... | 16,786.95                 | 856.39                  |

**23 05 53 Identification for HVAC Piping and Equipment** (23 05)

23 05 53 00-0001 Systems Identification (23 05 53)

23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)

Note: Outside diameters of insulation where necessary.

|   |       |
|---|-------|
| 23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....   | 22.80 |
| 23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....   | 23.19 |
| 23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....     | 23.39 |
| 23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker..... | 23.74 |
| 23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker..... | 27.12 |
| 23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....     | 27.81 |
| 23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker..... | 42.28 |
| 23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....     | 42.83 |
| 23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker..... | 43.41 |
| 23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....     | 43.72 |
| 23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker..... | 44.05 |
| 23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....     | 44.39 |
| 23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....     | 46.40 |
| 23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....     | 46.77 |
| 23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....     | 56.70 |
| 23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....    | 58.92 |
| 23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....    | 68.11 |
| 23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....    | 78.03 |

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Outside diameter includes insulation where necessary.

|  |       |
|--|-------|
| 23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....   | 16.91 |
| 23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....   | 17.68 |
| 23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 19.22 |
| 23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation..... | 19.52 |
| 23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation..... | 20.73 |
| 23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 21.19 |
| 23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation..... | 23.65 |
| 23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 24.25 |
| 23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation..... | 24.71 |
| 23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 25.18 |
| 23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation..... | 26.13 |
| 23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 27.17 |
| 23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 28.07 |
| 23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 28.96 |
| 23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....     | 31.71 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 53 Identification for HVAC Piping and Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....                     | 33.39                     |                         |
| 23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....                     | 38.84                     |                         |
| <b>23 05 53 00-0039 Valve Identification Tag</b> <small>(23 05 53 00-0001)</small><br>Note: Includes beaded chain and/or "S" hook. |                           |                         |
| 23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass .....  | 14.99                     |                         |
| 23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic .....  | 14.24                     |                         |
| 23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass .....  | 14.01                     |                         |
| <b>23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment</b> <small>(23 05)</small>                            |                           |                         |
| <b>23 05 66 00-0001 Double Ended Ultraviolet HVAC Microbial Control Fixtures</b> <small>(23 05 66)</small>                         |                           |                         |
| 23 05 66 00-0002 EA 18" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-181-VO) .....                      | 1,068.70                  | 102.60                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0003 EA 24" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-241-VO) .....                      | 1,115.77                  | 107.68                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0004 EA 30" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-301-VO) .....                      | 1,119.95                  | 112.29                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0005 EA 36" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-361-VO) .....                      | 1,172.23                  | 117.99                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0006 EA 42" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-421-VO) .....                      | 1,267.53                  | 123.05                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0007 EA 62" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-621-VO) .....                      | 1,160.03                  | 126.90                  |
| Note: Includes tube.   |                           |                         |
| <b>23 05 66 00-0008 Single Ended Ultraviolet HVAC Microbial Control Fixtures</b> <small>(23 05 66)</small>                         |                           |                         |
| 23 05 66 00-0009 EA 12" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-121-VO) .....                      | 889.92                    | 71.06                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0010 EA 16" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-161-VO) .....                      | 902.85                    | 76.91                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0011 EA 20" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-201-VO) .....                      | 926.29                    | 81.52                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0012 EA 24" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-241-VO) .....                      | 938.49                    | 87.68                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0013 EA 30" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-301-VO) .....                      | 962.68                    | 92.29                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0014 EA 36" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-361-VO) .....                      | 980.87                    | 96.91                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0015 EA 42" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-421-VO) .....                      | 1,004.31                  | 103.06                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0016 EA 12" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-121-VO) .....             | 1,012.20                  | 71.06                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0017 EA 16" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-161-VO) .....             | 1,025.13                  | 76.91                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0018 EA 20" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-201-VO) .....             | 1,048.57                  | 81.52                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0019 EA 24" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-241-VO) .....             | 1,060.77                  | 87.68                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0020 EA 30" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-301-VO) .....             | 1,084.96                  | 92.29                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0021 EA 36" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-361-VO) .....             | 1,103.15                  | 96.91                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0022 EA 42" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-421-VO) .....             | 1,126.59                  | 103.06                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0023 EA 16" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-161-VO) .....    | 711.44                    | 76.91                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0024 EA 20" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-201-VO) .....    | 734.88                    | 81.52                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0025 EA 24" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-241-VO) .....    | 747.08                    | 87.68                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0026 EA 30" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-301-VO) .....    | 771.27                    | 92.29                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0027 EA 36" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-361-VO) .....    | 789.46                    | 96.91                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0028 EA 42" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-421-VO) .....    | 812.90                    | 103.06                  |
| Note: Includes tube.   |                           |                         |
| <b>23 05 66 00-0029 Fan Coil Unit Ultraviolet Microbial Control Fixtures</b> <small>(23 05 66)</small>                             |                           |                         |
| 23 05 66 00-0030 EA 16" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....                                    | 665.38                    | 98.44                   |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0031 EA 20" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....                                    | 680.67                    | 103.06                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0032 EA 24" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....                                    | 695.95                    | 107.68                  |
| Note: Includes tube.   |                           |                         |
| 23 05 66 00-0033 EA 30" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....                                    | 716.17                    | 112.29                  |
| Note: Includes tube.   |                           |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
|                         |       |     |     | 23 05 66 00-0034 EA 36" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) ..... 742.00  | 742.00                 | 117.99               |
|                         |       |     |     | Note: Includes tube.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0035 EA 42" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) ..... 764.87  | 764.87                 | 123.05               |
|                         |       |     |     | Note: Includes tube.  |                        |                      |
| <b>23 05 66 00-0036</b> |       |     |     | <b>Ultraviolet HVAC Microbial Control Replacement Parts</b> (23 05 66)  |                        |                      |
|                         |       |     |     | 23 05 66 00-0037 EA 18" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-16-VO) ..... 175.87   | 175.87                 |                      |
|                         |       |     |     | 23 05 66 00-0038 EA 24" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-22-VO) ..... 184.85   | 184.85                 |                      |
|                         |       |     |     | 23 05 66 00-0039 EA 30" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-28-VO) ..... 209.60   | 209.60                 |                      |
|                         |       |     |     | 23 05 66 00-0040 EA 36" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-34-VO) ..... 241.38   | 241.38                 |                      |
|                         |       |     |     | 23 05 66 00-0041 EA 42" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-40-VO) ..... 273.86   | 273.86                 |                      |
|                         |       |     |     | 23 05 66 00-0042 EA 62" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-60-VO) ..... 269.19   | 269.19                 |                      |
|                         |       |     |     | 23 05 66 00-0043 EA 12" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-12-VO) ..... 128.34   | 128.34                 |                      |
|                         |       |     |     | 23 05 66 00-0044 EA 16" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-16-VO) ..... 135.13   | 135.13                 |                      |
|                         |       |     |     | 23 05 66 00-0045 EA 20" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-20-VO) ..... 152.41   | 152.41                 |                      |
|                         |       |     |     | 23 05 66 00-0046 EA 24" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-24-VO) ..... 158.46   | 158.46                 |                      |
|                         |       |     |     | 23 05 66 00-0047 EA 30" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-30-VO) ..... 176.49   | 176.49                 |                      |
|                         |       |     |     | 23 05 66 00-0048 EA 36" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-36-VO) ..... 188.53   | 188.53                 |                      |
|                         |       |     |     | 23 05 66 00-0049 EA 42" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-42-VO) ..... 205.82   | 205.82                 |                      |
|                         |       |     |     | 23 05 66 00-0050 EA Removal And Replacement Of Power Supply For Ultraviolet Microbial Control Fixture (Steril-Aire) ..... 510.09  | 510.09                 |                      |
| <b>23 05 66 00-0051</b> |       |     |     | <b>Ultraviolet HVAC Microbial Control Mounting Accessories</b> (23 05 66)   |                        |                      |
|                         |       |     |     | 23 05 66 00-0052 EA Two Spring Clip, 61" Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006610) ..... 737.25  | 737.25                 |                      |
|                         |       |     |     | Note: Includes 61" emitter, power supply, wires and connectors.   |                        |                      |
|                         |       |     |     | 23 05 66 00-0053 EA Two Spring Clip, 61" Sleeved Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006620) ..... 933.06  | 933.06                 |                      |
|                         |       |     |     | Note: Includes 61" emitter, power supply, wires and connectors.   |                        |                      |
|                         |       |     |     | 23 05 66 00-0054 EA Two Spring Clip, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-1) ..... 438.94  | 438.94                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0055 EA Two Short Hook Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-2) ..... 462.92  | 462.92                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0056 EA Flat Plate For Metal, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-3) ..... 576.12   | 576.12                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0057 EA Flat Plate For Plastic, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-4) ..... 365.62                                       | 365.62                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0058 EA Insert Lamp Holder, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-5) ..... 395.10   | 395.10                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0059 EA 16" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-6) ..... 520.49  | 520.49                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0060 EA 12" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-7) ..... 513.68  | 513.68                 |                      |
|                         |       |     |     | Note: Includes power supply, wires and connectors. Excludes emitter.  |                        |                      |
|                         |       |     |     | 23 05 66 00-0061 LF 30 x 30 mm Framing Structure For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000101) ..... 19.46   | 19.46                  |                      |
|                         |       |     |     | 23 05 66 00-0062 EA Vertical Support Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000111) ..... 66.40   | 66.40                  |                      |
|                         |       |     |     | 23 05 66 00-0063 EA Joint Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000112) ..... 23.60  | 23.60                  |                      |
|                         |       |     |     | 23 05 66 00-0064 EA Emitter Mounting Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000113) ..... 22.41   | 22.41                  |                      |
|                         |       |     |     | 23 05 66 00-0065 EA Foundation Bracket FB 8WA For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000104) ..... 61.54  | 61.54                  |                      |
|                         |       |     |     | 23 05 66 00-0066 EA Slider Assembly Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000114) ..... 69.93  | 69.93                  |                      |
|                         |       |     |     | 23 05 66 00-0067 EA Splice Kit For Horizontal Rows For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000108) ..... 62.37   | 62.37                  |                      |
|                         |       |     |     | 23 05 66 00-0068 EA Gusset Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000115) ..... 51.03   | 51.03                  |                      |
|                         |       |     |     | 23 05 66 00-0069 EA ISO "A" Bracket Hanger For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000109) ..... 48.33   | 48.33                  |                      |
|                         |       |     |     | 23 05 66 00-0070 EA DE Boot Kit UV Resistant For 1 DE Fixture For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000223) ..... 27.16  | 27.16                  |                      |
|                         |       |     |     | 23 05 66 00-0071 EA DE Wiring Kit For Up To 65" (DE Bank Install) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000603) ..... 54.06                                    | 54.06                  |                      |
|                         |       |     |     | 23 05 66 00-0072 EA Cleaning Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000100) ..... 27.27   | 27.27                  |                      |
|                         |       |     |     | 23 05 66 00-0073 EA 480 To 220 Volt AC / 180 VA Step-Down Transformer For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000503) ..... 103.45                               | 103.45                 |                      |
|                         |       |     |     | 23 05 66 00-0074 EA Interlock Switch (16 Amps At 125 Volt, 10 Amperes At 250 Volt Maximum Ampacity) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000120) ..... 108.53 | 108.53                 |                      |
| <b>23 05 66 00-0075</b> |       |     |     | <b>Ultraviolet Duct Disinfection Unit (eLEDLights)</b> (23 05 66)   |                        |                      |
|                         |       |     |     | 23 05 66 00-0076 EA Two 12" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V12-P1) ..... 1,481.03   | 1,481.03               | 142.29               |
|                         |       |     |     | 23 05 66 00-0077 EA Two 18" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V18-P1) ..... 1,653.18   | 1,653.18               | 149.97               |
|                         |       |     |     | 23 05 66 00-0078 EA Two 24" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V24-P1) ..... 1,717.51   | 1,717.51               | 161.51               |
|                         |       |     |     | 23 05 66 00-0079 EA Two 30" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V30-P1) ..... 1,798.34   | 1,798.34               | 173.05               |
|                         |       |     |     | 23 05 66 00-0080 EA Two 36" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V36-P1) ..... 1,854.43   | 1,854.43               | 184.58               |
|                         |       |     |     | 23 05 66 00-0081 EA Two 48" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V48-P1) ..... 2,224.62   | 2,224.62               | 192.28               |
|                         |       |     |     | 23 05 66 00-0082 EA Four 18" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V18-P1) ..... 2,212.63  | 2,212.63               | 149.97               |
|                         |       |     |     | 23 05 66 00-0083 EA Four 24" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V24-P1) ..... 2,301.71  | 2,301.71               | 161.51               |
|                         |       |     |     | 23 05 66 00-0084 EA Four 30" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V30-P1) ..... 2,654.84  | 2,654.84               | 173.05               |
|                         |       |     |     | 23 05 66 00-0085 EA Four 36" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V36-P1) ..... 2,760.43  | 2,760.43               | 184.58               |
| <b>23 05 66 00-0086</b> |       |     |     | <b>Ultraviolet Germicidal Airborne Duct System (Fresh-Aire UV)</b> (23 05 66)   |                        |                      |
|                         |       |     |     | Note: Includes 2 Year Warranty  |                        |                      |
|                         |       |     |     | 23 05 66 00-0087 EA Two 18" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-218D-HO) ..... 1,093.95   | 1,093.95               | 149.97               |
|                         |       |     |     | 23 05 66 00-0088 EA Four 18" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-218Q-HO) ..... 1,797.95  | 1,797.95               | 149.97               |
|                         |       |     |     | 23 05 66 00-0089 EA Six 18" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-218H-HO) ..... 2,502.89   | 2,502.89               | 149.97               |
|                         |       |     |     | 23 05 66 00-0090 EA Two 24" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-224D-HO) ..... 1,128.40   | 1,128.40               | 161.51               |
|                         |       |     |     | 23 05 66 00-0091 EA Four 24" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-224Q-HO) ..... 1,841.86  | 1,841.86               | 161.51               |
|                         |       |     |     | 23 05 66 00-0092 EA Six 24" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-224H-HO) ..... 2,556.28   | 2,556.28               | 161.51               |
|                         |       |     |     | 23 05 66 00-0093 EA Two 32" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-232D-HO) ..... 1,160.94   | 1,160.94               | 173.05               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 66 00-0094 EA Four 32" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-232Q-HO)..... | 1,885.78                  | 173.05                  |
| 23 05 66 00-0095 EA Six 32" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-232H-HO).....  | 2,609.67                  | 173.05                  |
| 23 05 66 00-0096 EA Two 46" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-246D-HO).....  | 1,285.62                  | 192.28                  |
| 23 05 66 00-0097 EA Four 46" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-246Q-HO)..... | 2,079.63                  | 192.28                  |
| 23 05 66 00-0098 EA Six 46" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-246H-HO).....  | 2,873.63                  | 192.28                  |
| 23 05 66 00-0099 EA Two 60" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-260D-HO).....  | 1,497.47                  | 211.51                  |
| 23 05 66 00-0100 EA Four 60" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-260Q-HO)..... | 2,465.82                  | 211.51                  |
| 23 05 66 00-0101 EA Six 60" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUV-ADS-260H-HO).....  | 3,433.22                  | 211.51                  |

**23 05 93 Testing, Adjusting, and Balancing for HVAC** (23 05)

Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.

**23 05 93 00-0001 Heating And Ventilating Equipment** (23 05 93)

|  |         |  |
|--|---------|--|
| 23 05 93 00-0002 EA Balancing Centrifugal Fans.....              | 614.34  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -307.17 |  |
| 23 05 93 00-0003 EA Balancing Heating And Ventilating Units..... | 767.62  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -383.81 |  |
| 23 05 93 00-0004 EA Balancing In Line Fan.....                   | 691.14  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -345.57 |  |
| 23 05 93 00-0005 EA Balancing Propeller And Wall Fan.....        | 153.58  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -76.79  |  |
| 23 05 93 00-0006 EA Balancing Roof Exhaust Fan.....              | 460.72  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -230.36 |  |
| 23 05 93 00-0007 EA Balancing Wall Fan.....                      | 115.16  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -57.58  |  |
| 23 05 93 00-0008 EA Balancing Fan Section Exhaust.....           | 613.37  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>             | -306.69 |  |

**23 05 93 00-0009 Air Conditioning Equipment** (23 05 93)

|  |          |  |
|--|----------|--|
| 23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit..... | 1,128.31 |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>                 | -564.16  |  |
| 23 05 93 00-0011 EA Balancing Package A/C Unit.....                  | 423.12   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>                 | -211.56  |  |
| 23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit.....        | 564.16   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>                 | -282.08  |  |
| 23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit..... | 1,974.55 |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>                 | -987.28  |  |

**23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers** (23 05 93)

|   |         |  |
|---|---------|--|
| 23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser..... | 115.20  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -57.60  |  |
| 23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser.....   | 191.98  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -95.99  |  |
| 23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser.....          | 99.84   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -49.92  |  |
| 23 05 93 00-0018 EA Balance Variable Air Volume Box.....  | 108.16  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -54.08  |  |
| 23 05 93 00-0019 EA Balance Constant Volume Box.....  | 108.16  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -54.08  |  |
| 23 05 93 00-0020 EA Balance Fan Powered Box.....  | 122.86  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -61.43  |  |
| 23 05 93 00-0021 EA Balance Lab Fume Hood.....  | 499.18  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -249.59 |  |
| 23 05 93 00-0022 EA Balance General Hood.....   | 383.96  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -191.98 |  |
| 23 05 93 00-0023 EA Balance Induction Unit.....   | 230.39  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -115.20 |  |
| 23 05 93 00-0024 EA Balance Moduline - Master.....  | 92.13   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -46.07  |  |
| 23 05 93 00-0025 EA Balance Moduline - Slave.....   | 46.07   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -23.04  |  |
| 23 05 93 00-0026 EA Balance Dampers.....  | 42.78   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -21.39  |  |
| 23 05 93 00-0027 EA Balance Regenerators.....   | 613.37  |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>  | -306.69 |  |

**23 05 93 00-0028 Water Balancing Of Components** (23 05 93)

|   |          |  |
|---|----------|--|
| 23 05 93 00-0029 EA Water Balance, Air Cool Condenser.....    | 775.79   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>          | -387.90  |  |
| 23 05 93 00-0030 EA Water Balance, Cabinet Heater.....        | 98.73    |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>          | -49.37   |  |
| 23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled.....   | 846.17   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>          | -423.09  |  |
| 23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled..... | 1,128.31 |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>          | -564.16  |  |
| 23 05 93 00-0033 EA Water Balance, Cooling Tower.....         | 564.16   |  |
| <i>For Testing Of Unit Without Balancing, Deduct</i>          | -282.08  |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 05 93 00-0034 EA Water Balance, Fan Coil And Vent.....   | 141.12                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -70.56                    |                         |
| 23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel .....   | 141.04                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -70.52                    |                         |
| 23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil .....   | 155.14                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -77.57                    |                         |
| 23 05 93 00-0037 EA Water Balance, Pumps.....   | 423.13                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -211.57                   |                         |
| 23 05 93 00-0038 EA Water Balance, Unit Heater .....  | 98.73                     |                         |
| For Testing Of Unit Without Balancing, Deduct   | -49.37                    |                         |
| 23 05 93 00-0039 EA Water Balancing, Converter.....   | 423.29                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -211.65                   |                         |
| 23 05 93 00-0040 EA Water Balancing, Cocks And Valves .....   | 70.51                     |                         |
| For Testing Of Unit Without Balancing, Deduct   | -35.26                    |                         |
| 23 05 93 00-0041 EA Water Balance, Convector.....   | 84.61                     |                         |
| For Testing Of Unit Without Balancing, Deduct   | -42.31                    |                         |
| 23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves .....   | 105.78                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -52.89                    |                         |
| 23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH .....  | 916.75                    |                         |
| For Testing Of Unit Without Balancing, Deduct   | -458.38                   |                         |
| 23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler.....   | 1,692.47                  |                         |
| For Testing Of Unit Without Balancing, Deduct   | -846.24                   |                         |
| 23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler.....  | 3,102.87                  |                         |
| For Testing Of Unit Without Balancing, Deduct   | -1,551.44                 |                         |
| <b>23 05 93 00-0046 Non-Destructive Testing (23 05 93)</b>  |                           |                         |
| <b>23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)</b>   |                           |                         |
| <b>23 05 93 00-0048 Minimum Charge For X-Ray Welds (23 05 93 00-0047)</b>   |                           |                         |
| 23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge .....   | 1,023.00                  |                         |
| Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively.<br>This task should not be used in conjunction with any other tasks in this section. |                           |                         |
| <b>23 05 93 00-0050 Piping, X-Ray Welds, Non-Destructive Testing (23 05 93 00-0047)</b>   |                           |                         |
| 23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non-Destructive Testing.....  | 115.90                    |                         |
| 23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non-Destructive Testing .....   | 131.93                    |                         |
| 23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non-Destructive Testing.....   | 147.98                    |                         |
| 23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non-Destructive Testing .....   | 156.36                    |                         |
| 23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non-Destructive Testing .....   | 164.74                    |                         |
| 23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non-Destructive Testing .....   | 173.85                    |                         |
| 23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non-Destructive Testing .....   | 190.61                    |                         |
| 23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non-Destructive Testing .....   | 207.37                    |                         |
| 23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non-Destructive Testing .....  | 216.47                    |                         |
| 23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non-Destructive Testing .....  | 225.58                    |                         |
| <b>23 05 93 00-0061 Liquid Penetration Of Welds, Non-Destructive Testing (23 05 93 00-0046)</b>   |                           |                         |
| <b>23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non-Destructive Testing (23 05 93 00-0061)</b>   |                           |                         |
| 23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non-Destructive Testing.....  | 136.60                    |                         |
| 23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non-Destructive Testing.....  | 144.26                    |                         |
| 23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....  | 151.91                    |                         |
| 23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non-Destructive Testing.....  | 155.74                    |                         |
| 23 05 93 00-0067 EA 3" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....   | 161.49                    |                         |
| 23 05 93 00-0068 EA 4" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....   | 167.24                    |                         |
| 23 05 93 00-0069 EA 6" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....   | 178.72                    |                         |
| 23 05 93 00-0070 EA 8" Piping, Liquid Penetration Of Welds, Non-Destructive Testing.....  | 190.21                    |                         |
| 23 05 93 00-0071 EA 10" Piping, Liquid Penetration Of Welds, Non-Destructive Testing.....   | 201.70                    |                         |
| 23 05 93 00-0072 EA 12" Piping, Liquid Penetration Of Welds, Non-Destructive Testing.....   | 213.19                    |                         |
| <b>23 05 93 00-0073 Hydrostatic Testing (23 05 93 00-0046)</b>  |                           |                         |
| Note: Includes flushing and restoring of system.  |                           |                         |
| <b>23 05 93 00-0074 Piping, Hydrostatic Testing (23 05 93 00-0073)</b>  |                           |                         |
| 23 05 93 00-0075 EA Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing.....   | 1,007.75                  |                         |
| 23 05 93 00-0076 EA >100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing .....   | 1,439.64                  |                         |
| 23 05 93 00-0077 EA >250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing .....   | 1,724.98                  |                         |
| 23 05 93 00-0078 EA >500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing .....   | 2,297.68                  |                         |
| 23 05 93 00-0079 EA >1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing.....  | 3,481.32                  |                         |
| 23 05 93 00-0080 EA Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing.....  | 1,339.91                  |                         |
| 23 05 93 00-0081 EA >100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing.....   | 1,914.73                  |                         |
| 23 05 93 00-0082 EA >250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing.....   | 2,279.44                  |                         |
| 23 05 93 00-0083 EA >500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....   | 2,986.95                  |                         |
| 23 05 93 00-0084 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....   | 4,518.74                  |                         |
| 23 05 93 00-0085 EA Up To 100', >4" To 10" Piping, Hydrostatic Testing.....   | 1,746.24                  |                         |
| 23 05 93 00-0086 EA >100' To 250', >4" To 10" Piping, Hydrostatic Testing .....   | 2,489.15                  |                         |
| 23 05 93 00-0087 EA >250' To 500', >4" To 10" Piping, Hydrostatic Testing .....   | 2,625.95                  |                         |
| 23 05 93 00-0088 EA >500' To 1,000', >4" To 10" Piping, Hydrostatic Testing .....   | 3,440.21                  |                         |
| 23 05 93 00-0089 EA >1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing.....  | 5,204.41                  |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 93 Testing, Adjusting, and Balancing for HVAC**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 05 93 00-0090 EA Up To 100', >10" To 14" Piping, Hydrostatic Testing .....                      | 2,267.05                  |                         |
| 23 05 93 00-0091 EA >100' To 250', >10" To 14" Piping, Hydrostatic Testing .....                   | 3,232.04                  |                         |
| 23 05 93 00-0092 EA >250' To 500', >10" To 14" Piping, Hydrostatic Testing .....                   | 3,414.41                  |                         |
| 23 05 93 00-0093 EA >500' To 1,000', >10" To 14" Piping, Hydrostatic Testing .....                 | 4,478.37                  |                         |
| 23 05 93 00-0094 EA >1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing .....               | 6,785.43                  |                         |
| <b>23 05 93 00-0095 Pneumatic Testing</b> <small>(23 05 93 00-0046)</small>                        |                           |                         |
| Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test. |                           |                         |
| <b>23 05 93 00-0096 Piping, Pneumatic Testing</b> <small>(23 05 93 00-0095)</small>                |                           |                         |
| 23 05 93 00-0097 EA Up To 100', Up To 1-1/2" Piping, Pneumatic Testing .....                       | 1,146.14                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0098 EA >100' To 250', Up To 1-1/2" Piping, Pneumatic Testing .....                    | 1,635.38                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0099 EA >250' To 500', Up To 1-1/2" Piping, Pneumatic Testing .....                    | 1,766.29                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0100 EA >500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing .....                  | 2,262.50                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0101 EA >1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing .....                | 3,539.16                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0102 EA Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing .....                      | 1,495.54                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing .....                   | 2,123.56                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing .....                   | 2,295.99                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing .....                 | 2,941.83                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing .....               | 4,600.19                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing .....                         | 1,800.71                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing .....                      | 2,541.16                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing .....                      | 2,875.14                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing .....                    | 3,673.95                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing .....                  | 5,753.36                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing .....                        | 2,344.69                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing .....                     | 3,303.75                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing .....                     | 3,738.86                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing .....                   | 4,777.13                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| 23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing .....                 | 7,491.53                  |                         |
| Note: Includes soaping joints.   |                           |                         |
| <b>23 05 93 00-0117 EPA Testing Of Sludge</b> <small>(23 05 93)</small>                            |                           |                         |
| 23 05 93 00-0118 EA Flashpoint And Lead Test For Lead .....  | 1,064.37                  |                         |
| 23 05 93 00-0119 EA Air Test/Combustion Gas Level .....  | 110.40                    |                         |
| 23 05 93 00-0120 EA Toxicity Test For Heavy Metals .....   | 1,632.68                  |                         |
| 23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water .....                   | 1,239.30                  |                         |

**23 07 HVAC Insulation** (23)

**23 07 13 Duct Insulation** (23 07)

Note: Based on SF surface area of duct to receive insulation.

**23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation** (23 07 13)  
 Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight. See CSI section 23 33 53 00-0000 for internal duct insulation.

**23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation** (23 07 13 00-0001)

|   |       |      |
|---|-------|------|
| 23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....     | 4.74  | 2.92 |
| <i>For Plain Blanket, With No Facing, Deduct</i>  |       |      |
|   | -0.34 |      |
| <i>For Work In Restricted Working Space, Add</i>  |       |      |
|   | 1.16  |      |
| 23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... | 5.54  | 2.92 |
| <i>For Plain Blanket, With No Facing, Deduct</i>  |       |      |
|   | -0.40 |      |
| <i>For Work In Restricted Working Space, Add</i>  |       |      |
|   | 1.37  |      |
| 23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....     | 6.28  | 4.36 |
| <i>For Plain Blanket, With No Facing, Deduct</i>  |       |      |
|   | -0.43 |      |
| <i>For Work In Restricted Working Space, Add</i>  |       |      |
|   | 1.56  |      |
| 23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....     | 7.42  | 5.10 |
| <i>For Plain Blanket, With No Facing, Deduct</i>  |       |      |
|   | -0.54 |      |
| <i>For Work In Restricted Working Space, Add</i>  |       |      |
|   | 1.82  |      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 8.67<br>-0.84<br>1.97                    | 5.53                    |
| <b>23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)</b>  |  |                         |
| 23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 5.85<br>-0.40<br>1.46                    | 4.36                    |
| 23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 6.81<br>-0.48<br>1.68                    | 5.10                    |
| 23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 8.04<br>-0.57<br>1.99                    | 5.82                    |
| <b>23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)</b>  |  |                         |
| 23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 7.53<br>-0.67<br>1.76                    | 5.82                    |
| 23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 9.61<br>-1.17<br>2.00                    | 6.56                    |
| 23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....<br><i>For Plain Blanket, With No Facing, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>   | 11.21<br>-1.38<br>2.33                   | 7.28                    |
| <b>23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)</b><br>Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.   |  |                         |
| 23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation .....<br><i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i><br><i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i><br><i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 13.58<br>31.49<br>23.28<br>19.20<br>3.88 | 7.53                    |
| 23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation .....<br><i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i><br><i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i><br><i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 17.25<br>38.82<br>29.05<br>23.87<br>4.72 | 9.16                    |
| 23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation .....<br><i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i><br><i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i><br><i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 21.37<br>47.23<br>35.61<br>29.19<br>5.69 | 11.06                   |
| <b>23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)</b><br>Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.  |  |                         |
| 23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 15.19<br>4.27                            | 8.29                    |
| 23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 19.45<br>5.19                            | 10.08                   |
| 23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation .....<br><i>For Work In Restricted Working Space, Add</i>  | 24.66<br>6.26                            | 12.17                   |
| <b>23 07 13 00-0024 Sheet Flexible Elastomeric Insulation (23 07 13)</b>  |  |                         |
| 23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation .....   | 10.03                                    | 3.93                    |
| 23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation .....   | 10.70                                    | 4.15                    |
| 23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation .....   | 13.67                                    | 4.36                    |
| 23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation .....   | 15.60                                    | 4.58                    |
| 23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation .....   | 21.14                                    | 5.03                    |
| 23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation .....   | 24.83                                    | 5.46                    |
| <b>23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)</b><br>Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.   |  |                         |
| 23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....  | 14.27                                    | 4.15                    |
| 23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....  | 15.63                                    | 4.36                    |
| 23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....  | 17.31                                    | 4.58                    |
| 23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....  | 26.27                                    | 5.03                    |
| 23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....  | 30.96                                    | 5.46                    |
| <b>23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)</b><br>Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.  |  |                         |
| 23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....   | 16.81                                    | 4.15                    |
| 23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....   | 18.17                                    | 4.36                    |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 07 HVAC Insulation****23 07 13 Duct Insulation**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|   |       |      |
|---|-------|------|
| 23 07 13 00-0040 SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....     | 20.30 | 4.58 |
| 23 07 13 00-0041 SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation ..... | 29.23 | 5.03 |

**23 07 16 HVAC Equipment Insulation (23 07)**

|   |       |       |
|---|-------|-------|
| <b>23 07 16 00-0001 Calcium Silicate Block Insulation (23 07 16)</b>      |       |       |
| 23 07 16 00-0002 SF 1" Thick, Calcium Silicate Block Insulation .....     | 21.54 | 9.05  |
| <i>For Work In Restricted Working Space, Add</i>                          | 5.43  |       |
| 23 07 16 00-0003 SF 1-1/2" Thick, Calcium Silicate Block Insulation ..... | 25.53 | 10.18 |
| <i>For Work In Restricted Working Space, Add</i>                          | 6.11  |       |
| 23 07 16 00-0004 SF 2" Thick, Calcium Silicate Block Insulation .....     | 30.46 | 11.74 |
| <i>For Work In Restricted Working Space, Add</i>                          | 7.07  |       |
| 23 07 16 00-0005 SF 2-1/2" Thick, Calcium Silicate Block Insulation ..... | 36.19 | 13.79 |
| <i>For Work In Restricted Working Space, Add</i>                          | 8.27  |       |
| 23 07 16 00-0006 SF 3" Thick, Calcium Silicate Block Insulation .....     | 44.27 | 16.97 |
| <i>For Work In Restricted Working Space, Add</i>                          | 10.18 |       |

**23 07 19 HVAC Piping Insulation (23 07)**

See CSI section 22 07 19 00-0000 for pipe insulation.

|  |       |       |
|--|-------|-------|
| <b>23 07 19 00-0001 Calcium Silicate Pipe Insulation (23 07 19)</b>  |       |       |
| Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0594 for protective jacketing. |       |       |
| <b>23 07 19 00-0002 1" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>  |       |       |
| 23 07 19 00-0003 LF 1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 17.41 | 4.79  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.59  |       |
| 23 07 19 00-0004 LF 3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 17.41 | 4.79  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.59  |       |
| 23 07 19 00-0005 LF 1" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 17.35 | 4.86  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.64  |       |
| 23 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 17.61 | 4.93  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.69  |       |
| 23 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 17.83 | 5.00  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.74  |       |
| 23 07 19 00-0008 LF 2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 18.99 | 5.13  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.85  |       |
| 23 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 19.85 | 5.34  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.00  |       |
| 23 07 19 00-0010 LF 3" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 20.69 | 5.48  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.11  |       |
| 23 07 19 00-0011 LF 4" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 23.48 | 5.89  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.42  |       |
| 23 07 19 00-0012 LF 6" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....   | 26.19 | 6.65  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.99  |       |
| <b>23 07 19 00-0013 1-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>  |       |       |
| 23 07 19 00-0014 LF 1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 18.21 | 4.99  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.74  |       |
| 23 07 19 00-0015 LF 3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 18.31 | 4.99  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.74  |       |
| 23 07 19 00-0016 LF 1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 19.57 | 5.28  |
| <i>For Work In Restricted Working Space, Add</i>   | 3.96  |       |
| 23 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 20.31 | 5.38  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.04  |       |
| 23 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 21.08 | 5.48  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.11  |       |
| 23 07 19 00-0019 LF 2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 22.58 | 5.78  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.34  |       |
| 23 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 23.58 | 5.88  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.41  |       |
| 23 07 19 00-0021 LF 3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 24.47 | 6.08  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.56  |       |
| 23 07 19 00-0022 LF 4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 27.18 | 6.58  |
| <i>For Work In Restricted Working Space, Add</i>   | 4.93  |       |
| 23 07 19 00-0023 LF 6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 31.54 | 7.67  |
| <i>For Work In Restricted Working Space, Add</i>   | 5.76  |       |
| 23 07 19 00-0024 LF 8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....   | 36.61 | 8.10  |
| <i>For Work In Restricted Working Space, Add</i>   | 6.08  |       |
| 23 07 19 00-0025 LF 10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....  | 45.90 | 9.69  |
| <i>For Work In Restricted Working Space, Add</i>   | 7.27  |       |
| 23 07 19 00-0026 LF 12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....  | 53.93 | 11.29 |
| <i>For Work In Restricted Working Space, Add</i>   | 8.47  |       |
| 23 07 19 00-0027 LF 14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....  | 59.98 | 12.38 |
| <i>For Work In Restricted Working Space, Add</i>   | 9.28  |       |
| 23 07 19 00-0028 LF 16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....  | 71.90 | 15.76 |
| <i>For Work In Restricted Working Space, Add</i>   | 11.81 |       |
| 23 07 19 00-0029 LF 18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....  | 77.31 | 16.54 |
| <i>For Work In Restricted Working Space, Add</i>   | 12.41 |       |



|                         | MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|---|---------------------------|-------------------------|
| <b>23 07 19 00-0030</b> | <b>2" Thick, Calcium Silicate Pipe Insulation</b> <small>(23 07 19 00-0001)</small>           |                           |                         |
|                         | 23 07 19 00-0031 LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....22.77       |                           | 5.48                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.11   |                           |                         |
|                         | 23 07 19 00-0032 LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....23.26       |                           | 5.48                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.11   |                           |                         |
|                         | 23 07 19 00-0033 LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....23.95         |                           | 5.55                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.16   |                           |                         |
|                         | 23 07 19 00-0034 LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....24.85     |                           | 5.62                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.21   |                           |                         |
|                         | 23 07 19 00-0035 LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....25.50     |                           | 5.68                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.27   |                           |                         |
|                         | 23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....26.57         |                           | 5.89                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.42   |                           |                         |
|                         | 23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....29.49     |                           | 6.10                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.58   |                           |                         |
|                         | 23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....30.07         |                           | 6.31                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.73   |                           |                         |
|                         | 23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....33.17         |                           | 6.66                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.99   |                           |                         |
|                         | 23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....40.57         |                           | 7.98                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 5.99   |                           |                         |
|                         | 23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....45.62         |                           | 8.43                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 6.32   |                           |                         |
|                         | 23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....56.06        |                           | 10.09                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 7.57   |                           |                         |
|                         | 23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....64.46        |                           | 12.08                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 9.06   |                           |                         |
|                         | 23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....79.82        |                           | 16.85                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 12.64  |                           |                         |
|                         | 23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....83.67        |                           | 16.85                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 12.64  |                           |                         |
|                         | 23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....89.54        |                           | 17.70                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 13.27  |                           |                         |
|                         | 23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....106.36       |                           | 20.23                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 15.17  |                           |                         |
|                         | 23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....124.23       |                           | 24.44                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 18.33  |                           |                         |
| <b>23 07 19 00-0049</b> | <b>2-1/2" Thick, Calcium Silicate Pipe Insulation</b> <small>(23 07 19 00-0001)</small>       |                           |                         |
|                         | 23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....27.22   |                           | 6.31                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.74   |                           |                         |
|                         | 23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....27.73   |                           | 6.31                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.74   |                           |                         |
|                         | 23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....28.21     |                           | 6.42                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.82   |                           |                         |
|                         | 23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....28.47 |                           | 6.47                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.85   |                           |                         |
|                         | 23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....29.15 |                           | 6.52                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 4.89   |                           |                         |
|                         | 23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....30.38     |                           | 6.79                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 5.09   |                           |                         |
|                         | 23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....33.91 |                           | 7.02                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 5.27   |                           |                         |
|                         | 23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....34.52     |                           | 7.27                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 5.45   |                           |                         |
|                         | 23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....39.58     |                           | 7.66                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 5.75   |                           |                         |
|                         | 23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....48.94     |                           | 8.71                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 6.53   |                           |                         |
|                         | 23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....55.76     |                           | 9.70                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 7.28   |                           |                         |
|                         | 23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....66.43    |                           | 11.19                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 8.39   |                           |                         |
|                         | 23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....77.66    |                           | 13.92                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 10.43  |                           |                         |
|                         | 23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....85.83    |                           | 15.19                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 11.39  |                           |                         |
|                         | 23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....104.60   |                           | 19.42                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 14.56  |                           |                         |
|                         | 23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....110.42   |                           | 20.38                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 15.29  |                           |                         |
|                         | 23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....127.95   |                           | 23.30                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 17.48  |                           |                         |
|                         | 23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....150.65   |                           | 28.15                   |
|                         | <i>For Work In Restricted Working Space, Add</i> 21.11  |                           |                         |
| <b>23 07 19 00-0068</b> | <b>3" Thick, Calcium Silicate Pipe Insulation</b> <small>(23 07 19 00-0001)</small>           |                           |                         |
|                         | 23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....33.94       |                           | 6.99                    |
|                         | <i>For Work In Restricted Working Space, Add</i> 5.24   |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....        | 34.05                     | 6.99                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.24                      |                         |
| 23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....          | 34.36                     | 7.07                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.30                      |                         |
| 23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....      | 34.70                     | 7.11                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.33                      |                         |
| 23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....      | 35.03                     | 7.19                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.39                      |                         |
| 23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....          | 36.24                     | 7.45                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.59                      |                         |
| 23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....      | 39.98                     | 7.71                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.78                      |                         |
| 23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....          | 40.83                     | 7.98                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.99                      |                         |
| 23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....          | 47.74                     | 8.44                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.32                      |                         |
| 23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....          | 56.46                     | 9.57                    |
| <i>For Work In Restricted Working Space, Add</i>  | 7.18                      |                         |
| 23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....          | 65.41                     | 10.67                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.00                      |                         |
| 23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 77.54                     | 12.32                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.23                      |                         |
| 23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 90.00                     | 15.30                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.48                     |                         |
| 23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 99.79                     | 16.71                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.53                     |                         |
| 23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 117.48                    | 21.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 16.01                     |                         |
| 23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 126.44                    | 22.42                   |
| <i>For Work In Restricted Working Space, Add</i>  | 16.82                     |                         |
| 23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 147.81                    | 25.64                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.23                     |                         |
| 23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....         | 175.09                    | 30.97                   |
| <i>For Work In Restricted Working Space, Add</i>  | 23.23                     |                         |
| <b>23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b> |                           |                         |
| 23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....    | 42.75                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.75                      |                         |
| 23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....    | 44.24                     | 7.66                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.75                      |                         |
| 23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....      | 44.36                     | 7.71                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.78                      |                         |
| 23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....  | 44.50                     | 7.76                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.82                      |                         |
| 23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....  | 45.84                     | 7.86                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.90                      |                         |
| 23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....      | 48.56                     | 8.12                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.09                      |                         |
| 23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....  | 52.56                     | 8.41                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.31                      |                         |
| 23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....      | 54.43                     | 8.71                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.53                      |                         |
| 23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....      | 61.71                     | 9.20                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.90                      |                         |
| 23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....      | 68.93                     | 10.45                   |
| <i>For Work In Restricted Working Space, Add</i>  | 7.84                      |                         |
| 23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....      | 83.51                     | 11.64                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.73                      |                         |
| 23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....     | 101.21                    | 13.43                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.07                     |                         |
| 23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....     | 122.70                    | 16.69                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.52                     |                         |
| 23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....     | 129.51                    | 18.23                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.67                     |                         |
| 23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....     | 151.83                    | 23.30                   |
| <i>For Work In Restricted Working Space, Add</i>  | 17.47                     |                         |
| 23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....     | 173.50                    | 24.46                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.35                     |                         |
| 23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....     | 187.85                    | 27.97                   |
| <i>For Work In Restricted Working Space, Add</i>  | 20.98                     |                         |
| <b>23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>     |                           |                         |
| 23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....        | 52.97                     | 8.51                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.38                      |                         |
| 23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....        | 53.02                     | 8.51                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.38                      |                         |
| 23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....          | 53.39                     | 8.66                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.49                      |                         |
| 23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....      | 54.80                     | 8.76                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.57                      |                         |
| 23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....      | 57.95                     | 9.03                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.77                      |                         |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation' and '23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation'.

23 08 Commissioning of HVAC (23)

See CSI section 23 05 93 00-0000 for testing and balancing.

23 09 Instrumentation and Control for HVAC (23)

23 09 23 Direct-Digital Control System for HVAC (23 09)

23 09 23 11 Control Valves (23 09 23)

23 09 23 11-0001 Valves With Actuator (23 09 23 11)

Table listing various valve types and actuators with their respective unit costs. Examples include 'EA 1/2" 2-Way Bronze Globe Valve With Actuator' and 'EA 1/2" 3-Way Brass Ball Valve With Actuator'.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 09 Instrumentation and Control for HVAC**

**23 09 23 Direct-Digital Control System for HVAC**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 09 23 11-0043 EA 2" 3-Way Brass Ball Valve With Actuator (Belimo B352+ARB24-3) .....   | 854.10                    | 83.55                   |
| 23 09 23 11-0044 EA 2" 2-Way Butterfly Valve With Actuator (Belimo F650HD+AMB24-3X1) .....  | 715.53                    | 102.12                  |
| 23 09 23 11-0045 EA 2-1/2" 2-Way Butterfly Valve With Actuator (Belimo F665HD+AMB24-3X1) .....  | 753.57                    | 111.40                  |
| 23 09 23 11-0046 EA 3" 2-Way Butterfly Valve With Actuator (Belimo F680HD+GMB24-3X1) .....  | 982.10                    | 130.36                  |
| 23 09 23 11-0047 EA 4" 2-Way Butterfly Valve With Actuator (Belimo F6100HD+2"GMB24-3X1) .....   | 1,510.06                  | 218.83                  |
| 23 09 23 11-0048 EA 5" 2-Way Butterfly Valve With Actuator (Belimo F6125HD+SY2-24) .....  | 2,952.94                  | 276.71                  |
| 23 09 23 11-0049 EA 6" 2-Way Butterfly Valve With Actuator (Belimo F6150HD+SY3-24) .....  | 3,123.10                  | 306.36                  |
| 23 09 23 11-0050 EA 8" 2-Way Butterfly Valve With Actuator (Belimo F6200HD+SY4-24) .....  | 4,212.90                  | 350.12                  |
| 23 09 23 11-0051 EA 10" 2-Way Butterfly Valve With Actuator (Belimo F6250HD+SY4-24) .....   | 5,168.51                  | 428.90                  |
| 23 09 23 11-0052 EA 12" 2-Way Butterfly Valve With Actuator (Belimo F6300HS+SY4-24) .....   | 6,382.16                  | 519.88                  |
| 23 09 23 11-0053 EA 14" 2-Way Butterfly Valve With Actuator (Belimo F6350HD+SY5-24) .....   | 7,110.56                  | 612.71                  |
| 23 09 23 11-0054 EA 16" 2-Way Butterfly Valve With Actuator (Belimo F6400HD+SY6-110) .....  | 9,331.51                  | 673.99                  |
| 23 09 23 11-0055 EA 18" 2-Way Butterfly Valve With Actuator (Belimo F6450HD+SY8-110) .....  | 11,273.55                 | 748.74                  |
| 23 09 23 11-0056 EA 2" 3-Way Butterfly Valve With Actuator (Belimo F750HD+AMB24-3X1) .....  | 1,303.41                  | 153.18                  |
| 23 09 23 11-0057 EA 2-1/2" 3-Way Butterfly Valve With Actuator (Belimo F765HD+GMB24-3X1) .....  | 1,528.35                  | 167.11                  |
| 23 09 23 11-0058 EA 3" 3-Way Butterfly Valve With Actuator (Belimo F780HD+2"GMB24-3X1) .....  | 1,881.14                  | 195.54                  |
| 23 09 23 11-0059 EA 4" 3-Way Butterfly Valve With Actuator (Belimo F7100HD+2"GMB24-3X1) .....   | 2,453.95                  | 328.24                  |
| 23 09 23 11-0060 EA 5" 3-Way Butterfly Valve With Actuator (Belimo F7125HD+SY3-24) .....  | 4,890.92                  | 415.07                  |
| 23 09 23 11-0061 EA 6" 3-Way Butterfly Valve With Actuator (Belimo F7150HD+SY3-24) .....  | 5,079.44                  | 459.53                  |
| 23 09 23 11-0062 EA 8" 3-Way Butterfly Valve With Actuator (Belimo F7200HD+SY4-24) .....  | 6,374.89                  | 525.23                  |
| 23 09 23 11-0063 EA 10" 3-Way Butterfly Valve With Actuator (Belimo F7250HD+SY4-24) .....   | 8,411.18                  | 643.35                  |
| 23 09 23 11-0064 EA 12" 3-Way Butterfly Valve With Actuator (Belimo F7300HD+SY5-24) .....   | 10,222.62                 | 779.82                  |
| 23 09 23 11-0065 EA 14" 3-Way Butterfly Valve With Actuator (Belimo F7350HD+SY6-110) .....  | 15,796.95                 | 919.07                  |
| 23 09 23 11-0066 EA 16" 3-Way Butterfly Valve With Actuator (Belimo F7400HD+SY7-110) .....  | 17,607.18                 | 1,010.97                |
| 23 09 23 11-0067 EA 18" 3-Way Butterfly Valve With Actuator (Belimo F7450HD+SY8-110) .....  | 26,872.86                 | 1,123.11                |
| <b>23 09 23 11-0068 Valve Actuators (23 09 23 11)</b>   |                           |                         |
| 23 09 23 11-0069 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-T) .....                        | 555.94                    | 126.55                  |
| 23 09 23 11-0070 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 95 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3) .....  | 563.00                    | 126.55                  |
| 23 09 23 11-0071 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR-T) .....                                | 678.75                    | 126.55                  |
| 23 09 23 11-0072 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-S) .....                      | 621.67                    | 126.55                  |
| 23 09 23 11-0073 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR) .....  | 631.98                    | 126.55                  |
| 23 09 23 11-0074 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT) .....                                 | 699.67                    | 126.55                  |
| 23 09 23 11-0075 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-1) .....   | 837.07                    | 126.55                  |
| 23 09 23 11-0076 EA 24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT95) .....  | 853.22                    | 126.55                  |
| 23 09 23 11-0077 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-MFT) .....                                | 892.17                    | 126.55                  |
| 23 09 23 11-0078 EA 120 Volt AC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-3) .....   | 662.25                    | 126.55                  |
| 23 09 23 11-0079 EA 120 Volt AC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-SR) .....   | 743.96                    | 126.55                  |
| 23 09 23 11-0080 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-T) .....          | 666.13                    | 126.55                  |
| 23 09 23 11-0081 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3) .....                            | 676.46                    | 126.55                  |
| 23 09 23 11-0082 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARB24-3-5-14) .....                                    | 680.33                    | 126.55                  |
| 23 09 23 11-0083 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-S) .....        | 750.58                    | 126.55                  |
| 23 09 23 11-0084 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T) .....                                  | 780.88                    | 126.55                  |
| 23 09 23 11-0085 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR) .....                                    | 796.98                    | 126.55                  |
| 23 09 23 11-0086 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, Variable Run Time (90 To 350 Seconds), 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT) .....               | 793.78                    | 126.55                  |
| 23 09 23 11-0087 EA 24 Volt AC/DC Power Supply, Phasecut Control Input, 95 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-PC) .....   | 804.08                    | 126.55                  |
| 23 09 23 11-0088 EA 24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT95) .....  | 803.43                    | 126.55                  |
| 23 09 23 11-0089 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, NEMA 4X, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T N4) .....                                   | 870.28                    | 126.55                  |
| 23 09 23 11-0090 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, NEMA 4X, Variable Run Time (75 To 350 Seconds), 160 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT-T N4) ..... | 1,039.36                  | 126.55                  |
| 23 09 23 11-0091 EA 100-240 Volt AC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-3) .....                         | 715.77                    | 126.55                  |
| 23 09 23 11-0092 EA 100-240 Volt AC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-SR) .....                                 | 839.55                    | 126.55                  |
| 23 09 23 11-0093 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 15 Seconds Run Time, 801 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY2-24) .....   | 1,810.26                  | 126.55                  |
| 23 09 23 11-0094 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 1,335 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY3-24) .....   | 2,021.67                  | 126.55                  |
| 23 09 23 11-0095 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 16 Seconds Run Time, 3,560 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY4-24) .....   | 2,412.92                  | 126.55                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 09 23 11-0096 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 4,450 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY5-24)..... | 2,724.25                  | 126.55                  |
| 23 09 23 11-0097 EA 120 Volt AC Power Supply, On/Off Control Input, 28 Seconds Run Time, 5,785 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY6-110).....  | 3,212.19                  | 126.55                  |
| 23 09 23 11-0098 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 8,900 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY7-110).....  | 3,771.69                  | 126.55                  |
| 23 09 23 11-0099 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 13,350 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY8-110)..... | 5,058.25                  | 126.55                  |
| 23 09 23 11-0100 EA 120 Volt AC Power Supply, On/Off Control Input, 58 Seconds Run Time, 17,800 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY9-110)..... | 6,159.81                  | 126.55                  |

**23 09 23 12 Control Dampers (23 09 23)**

**23 09 23 12-0001 Rectangular Galvanized Volume Control Dampers (23 09 23 12)**

Note: Excludes actuators.

|   |          |        |
|---|----------|--------|
| 23 09 23 12-0002 EA 8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008).....   | 229.36   | 47.62  |
| 23 09 23 12-0003 EA 10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010)..... | 258.16   | 52.22  |
| 23 09 23 12-0004 EA 12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012)..... | 288.47   | 57.60  |
| 23 09 23 12-0005 EA 14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014)..... | 333.77   | 67.58  |
| 23 09 23 12-0006 EA 16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016)..... | 377.54   | 76.80  |
| 23 09 23 12-0007 EA 18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018)..... | 384.06   | 86.40  |
| 23 09 23 12-0008 EA 20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020)..... | 468.79   | 96.00  |
| 23 09 23 12-0009 EA 24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024)..... | 560.00   | 115.20 |
| 23 09 23 12-0010 EA 32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032)..... | 715.67   | 134.38 |
| 23 09 23 12-0011 EA 48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048)..... | 1,050.91 | 153.58 |
| 23 09 23 12-0012 EA 60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060)..... | 1,899.60 | 172.78 |
| 23 09 23 12-0013 EA 72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072)..... | 2,406.02 | 191.98 |

**23 09 23 12-0014 Round Galvanized Control Dampers (23 09 23 12)**

Note: Excludes actuators.

|  |        |       |
|--|--------|-------|
| 23 09 23 12-0015 EA 6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06).....  | 224.79 | 53.76 |
| 23 09 23 12-0016 EA 8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08).....  | 232.57 | 57.60 |
| 23 09 23 12-0017 EA 10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10)..... | 241.97 | 57.60 |
| 23 09 23 12-0018 EA 12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12)..... | 268.93 | 65.28 |
| 23 09 23 12-0019 EA 14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14)..... | 303.79 | 65.28 |
| 23 09 23 12-0020 EA 16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16)..... | 331.06 | 76.80 |
| 23 09 23 12-0021 EA 18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18)..... | 444.25 | 80.83 |
| 23 09 23 12-0022 EA 20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20)..... | 464.24 | 83.78 |
| 23 09 23 12-0023 EA 22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22)..... | 493.09 | 90.33 |
| 23 09 23 12-0024 EA 24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24)..... | 522.48 | 96.86 |

**23 09 23 12-0025 Remote Damper Control (23 09 23 12)**

|   |        |  |
|---|--------|--|
| 23 09 23 12-0026 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-301B)..... | 346.26 |  |
| <i>For Each 10' Flexible Casing And Wire, Add</i>   | 41.07  |  |
| 23 09 23 12-0027 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-275B)..... | 337.86 |  |
| <i>For Each 10' Flexible Casing And Wire, Add</i>   | 41.07  |  |

**23 09 23 13 Energy Meters (23 09 23)**

**23 09 23 13-0001 Surge Protectors (23 09 23 13)**

|  |        |       |
|--|--------|-------|
| 23 09 23 13-0002 EA Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255)..... | 358.82 | 12.32 |
| 23 09 23 13-0003 EA Surge Protector, 1AC Outlet (Transtector TR2251).....                          | 272.27 | 12.32 |
| 23 09 23 13-0004 EA Surge Protector, 2 AC Outlets (Transtector TR2254).....                        | 421.19 | 12.32 |
| 23 09 23 13-0005 EA Surge Protector, DB-15 Connection (Transtector TR2259-DLP15).....              | 230.01 | 12.32 |
| 23 09 23 13-0006 EA Surge Protector, DB-25 Connection (Transtector TR2259-DLP25).....              | 230.01 | 12.32 |
| 23 09 23 13-0007 EA Surge Protector, DB-9 Connection (Transtector TR2259-DLP9).....                | 230.01 | 12.32 |
| 23 09 23 13-0008 EA Surge Protector, Individual Wire Connection (Transtector TR2258).....          | 330.65 | 12.32 |
| 23 09 23 13-0009 EA Surge Protector, Trane Communication Links (Transtector TR2257).....           | 205.86 | 12.32 |

**23 09 23 14 Flow Instruments (23 09 23)**

**23 09 23 14-0001 Water Flow Meters (23 09 23 14)**

|   |          |        |
|---|----------|--------|
| 23 09 23 14-0002 EA Insertion Electromagnetic Water Flow Meter (Onicon F-3500)..... | 5,349.02 | 135.34 |
| Note: Excludes pipe fittings.   |          |        |

**23 09 23 14-0003 Air Flow Monitoring Stations (23 09 23 14)**

|  |          |        |
|--|----------|--------|
| 23 09 23 14-0004 EA Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Ebtron GTA116)..... | 4,213.15 | 147.44 |
| Note: 10' cable, 36" x 24" typical duct size.  |          |        |
| 23 09 23 14-0005 EA Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116)..... | 6,020.47 | 147.44 |
| Note: 10' cable, 48" x 36" typical duct size.  |          |        |
| 23 09 23 14-0006 EA Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116)..... | 7,476.66 | 147.44 |
| Note: 10' cable, 60" x 48" typical duct size.  |          |        |

**23 09 23 16 Gas Instruments (23 09 23)**



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 09 23 16-0001 Gas Sensors</b> <small>(23 09 23 16)</small>  |                           |                         |
| 23 09 23 16-0002 EA 6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B).....  | 2,226.09                  | 73.93                   |
| 23 09 23 16-0003 EA Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD) .....  | 990.90                    | 49.29                   |
| 23 09 23 16-0004 EA CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2).....  | 1,776.08                  | 73.93                   |
| Note: Solid state sensor.   |                           |                         |
| 23 09 23 16-0005 EA CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm<br>Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD) ..... | 986.47                    | 88.72                   |
| <b>23 09 23 19 Moisture Instruments</b> <small>(23 09 23)</small>   |                           |                         |
| <b>23 09 23 19-0001 Relative Humidity Sensors</b> <small>(23 09 23 19)</small>  |                           |                         |
| 23 09 23 19-0002 EA 3% Duct Mounted RH Sensor (Kele HD30K).....   | 629.68                    | 88.72                   |
| 23 09 23 19-0003 EA 10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3) .....  | 645.76                    | 88.72                   |
| 23 09 23 19-0004 EA 3% RH Outdoor Air Sensor (Kele HO30K).....  | 741.53                    | 123.21                  |
| 23 09 23 19-0005 EA 2% Surface Mounted RH Transmitter (Kele HW20K) .....  | 555.66                    | 49.29                   |
| <b>23 09 23 21 Motion Instruments</b> <small>(23 09 23)</small>   |                           |                         |
| <b>23 09 23 21-0001 Peco Motion Sensors</b> <small>(23 09 23 21)</small>  |                           |                         |
| 23 09 23 21-0002 EA Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....  | 207.48                    | 34.65                   |
| 23 09 23 21-0003 EA Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....   | 203.65                    | 34.65                   |
| 23 09 23 21-0004 EA Wall/Ceiling Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001) .....   | 267.99                    | 34.65                   |
| 23 09 23 21-0005 EA Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002) .....  | 239.59                    | 34.65                   |
| 23 09 23 21-0006 EA Door Switch Occupancy Sensor (Peco SE200-001).....  | 83.56                     | 34.65                   |
| 23 09 23 21-0007 EA Window Switch Occupancy Sensor (Peco SE200-002).....  | 78.28                     | 34.65                   |
| 23 09 23 21-0008 EA Power Pack And Controller (Peco SF200-001).....   | 132.68                    | 34.65                   |
| <b>23 09 23 23 Pressure Instruments</b> <small>(23 09 23)</small>   |                           |                         |
| <b>23 09 23 23-0001 Pressure Sensors</b> <small>(23 09 23 23)</small>   |                           |                         |
| 23 09 23 23-0002 EA 0 To 0.5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-005).....   | 833.26                    | 104.06                  |
| 23 09 23 23-0003 EA 0 To 5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-050).....   | 746.90                    | 104.06                  |
| 23 09 23 23-0004 EA 0.05 To 12" W.C., Adjustable Differential Pressure Switches (Kele AFS-222).....   | 329.01                    | 104.06                  |
| 23 09 23 23-0005 EA 0.05 To 2" W.C., Adjustable Differential Pressure Switches (Kele AFS-262) .....   | 339.05                    | 104.06                  |
| 23 09 23 23-0006 EA 0.4 To 2" W.C., Manual Reset Adjustable Differential Pressure Switches (Kele AFS-460) .....   | 358.68                    | 104.06                  |
| 23 09 23 23-0007 EA 0.05 To 12" W.C., 1/8" NPT, Adjustable Differential Pressure Switches (Kele AFS-145) .....  | 336.14                    | 104.06                  |
| 23 09 23 23-0008 EA 0 To 100 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P210D-BVA) .....  | 2,936.58                  | 104.06                  |
| Note: Excludes pipe fittings.   |                           |                         |
| 23 09 23 23-0009 EA 0 To 60 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P160D-BVA) .....   | 2,936.58                  | 104.06                  |
| Note: Excludes pipe fittings.   |                           |                         |
| 23 09 23 23-0010 EA Magnahelic Gauge.....   | 836.77                    | 63.61                   |
| <b>23 09 23 23-0011 Room Pressure Monitoring</b> <small>(23 09 23 23)</small>   |                           |                         |
| 23 09 23 23-0012 EA Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum<br>Rated Cable (TSI 8640-PM) .....                                    | 3,482.87                  | 76.80                   |
| 23 09 23 23-0013 EA Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum<br>Rated Cable (TSI 8630-PC).....                                  | 5,585.08                  | 76.80                   |
| Note: Excludes dampers and actuators.   |                           |                         |
| 23 09 23 23-0014 EA Hospital Room Pressure Status Remote Visual Display (TSI 8694-4).....   | 449.98                    | 46.08                   |
| 23 09 23 23-0015 EA Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7).....  | 517.08                    | 46.08                   |
| <b>23 09 23 27 Temperature Instruments</b> <small>(23 09 23)</small>  |                           |                         |
| <b>23 09 23 27-0001 Air Temperature Sensors</b> <small>(23 09 23 27)</small>  |                           |                         |
| 23 09 23 27-0002 EA 10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....   | 259.33                    | 88.72                   |
| 23 09 23 27-0003 EA 10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO).....  | 345.69                    | 88.72                   |
| 23 09 23 27-0004 EA 10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....  | 269.26                    | 88.72                   |
| 23 09 23 27-0005 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH) .....   | 279.45                    | 88.72                   |
| 23 09 23 27-0006 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....  | 282.84                    | 88.72                   |
| 23 09 23 27-0007 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....  | 279.49                    | 88.72                   |
| 23 09 23 27-0008 EA 10K Ohm Thermistor Duct Temperature Sensor With Non-Metallic Handibox Housing (Kele ST-D24-XHP).....  | 281.29                    | 88.72                   |
| 23 09 23 27-0009 EA 10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4) .....  | 298.45                    | 88.72                   |
| 23 09 23 27-0010 EA 10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW).....  | 313.44                    | 88.72                   |
| 23 09 23 27-0011 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-Q24) .....   | 387.43                    | 123.21                  |
| 23 09 23 27-0012 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-Q24-XC25).....   | 398.97                    | 123.21                  |
| 23 09 23 27-0013 EA Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA/10K3-R-N-DF).....   | 172.00                    | 49.29                   |
| 23 09 23 27-0014 EA Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R) .....   | 176.24                    | 49.29                   |
| 23 09 23 27-0015 EA Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP).....  | 165.10                    | 49.29                   |
| <b>23 09 23 27-0016 Water Temperature Sensors</b> <small>(23 09 23 27)</small>  |                           |                         |
| 23 09 23 27-0017 EA 5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....  | 205.21                    | 95.34                   |
| 23 09 23 27-0018 EA Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005) .....   | 479.99                    | 95.34                   |
| <b>23 09 23 27-0019 Peco Thermostats</b> <small>(23 09 23 27)</small>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 09 23 27-0020 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-IAQ).....  | 436.44                    | 23.10                   |
| 23 09 23 27-0021 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....   | 392.44                    | 23.10                   |
| <b>23 09 23 53 Proprietary Control Systems (23 09 23)</b>   |                           |                         |
| <b>23 09 23 53-0001 EMCS General Costs (23 09 23 53)</b>  |                           |                         |
| <b>23 09 23 53-0002 EMCS System Design Services (23 09 23 53-0001)</b>  |                           |                         |
| Note: Hourly labor rates for use with Site Inspection, Project Management, Engineering, Design, Programming, Training and Technical Support.  |                           |                         |
| 23 09 23 53-0003 HR EMCS Site Inspection Of Existing Facilities.....  | 381.19                    |                         |
| 23 09 23 53-0004 HR EMCS Engineering Project Management.....  | 381.19                    |                         |
| 23 09 23 53-0005 HR EMCS System Engineering, Schematic Design And Layout.....   | 404.30                    |                         |
| 23 09 23 53-0006 HR EMCS System Software Programming And Graphics Programming.....  | 404.30                    |                         |
| 23 09 23 53-0007 HR EMCS Graphics Picture Creation.....   | 259.99                    |                         |
| 23 09 23 53-0008 HR EMCS System Controls Training.....  | 381.19                    |                         |
| 23 09 23 53-0009 HR EMCS On Site System Diagnostics Field Technician.....   | 381.19                    |                         |
| 23 09 23 53-0010 HR EMCS Remote Technical Support Using Phone Or Internet.....  | 317.74                    |                         |
| 23 09 23 53-0011 HR EMCS Travel Time (All Personnel).....   | 329.30                    |                         |
| <b>23 09 23 53-0012 Field Tests, Checkout And Commissioning (23 09 23 53-0001)</b>  |                           |                         |
| Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points. |                           |                         |
| 23 09 23 53-0013 PNT EMCS Field Test.....   | 202.23                    |                         |
| Note: Priced per point.   |                           |                         |
| 23 09 23 53-0014 PNT EMCS Field Checkout And Startup.....   | 202.23                    |                         |
| Note: Priced per point.   |                           |                         |
| 23 09 23 53-0015 PNT EMCS Field Commissioning.....  | 202.23                    |                         |
| Note: Priced per point.   |                           |                         |
| 23 09 23 53-0016 EA EMCS Field Balance Support.....   | 173.27                    |                         |
| Note: Priced per controller.  |                           |                         |
| <b>23 09 23 53-0017 EMCS System Engineering/Submittal Design And Layout (23 09 23 53-0001)</b>  |                           |                         |
| Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points. |                           |                         |
| 23 09 23 53-0018 PNT EMCS System Engineering/Submittal Design And Layout.....   | 67.46                     |                         |
| Note: Priced per point.   |                           |                         |
| <b>23 09 23 53-0019 Alerton Controls (23 09 23 53)</b>  |                           |                         |
| 23 09 23 53-0020 EA 50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL).....   | 10,555.14                 |                         |
| 23 09 23 53-0021 EA 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM).....   | 13,350.64                 |                         |
| 23 09 23 53-0022 EA Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM).....   | 32,658.97                 |                         |
| 23 09 23 53-0023 EA Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE).....  | 24,683.79                 |                         |
| 23 09 23 53-0024 EA Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE).....  | 62,460.94                 |                         |
| 23 09 23 53-0025 EA Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE).....   | 49,414.39                 |                         |
| 23 09 23 53-0026 EA Dashboard Option, Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE).....   | 75,053.31                 |                         |
| 23 09 23 53-0027 EA Alerton Building Suite Tech License (Alerton ABS-3-TECH).....   | 2,159.22                  |                         |
| 23 09 23 53-0028 EA Enterprise Edition With SQL Server Support, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-ENT1).....  | 28,931.62                 |                         |
| 23 09 23 53-0029 EA Unlimited Controllers, Unlimited Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-LRG).....   | 21,363.59                 |                         |
| 23 09 23 53-0030 EA 150 Controllers, 3 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-MED).....   | 13,291.89                 |                         |
| 23 09 23 53-0031 EA 50 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-SM).....   | 8,494.17                  |                         |
| 23 09 23 53-0032 EA 10 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-XS).....   | 3,363.52                  |                         |
| 23 09 23 53-0033 EA 1 Ethernet, 1 MS/TP, BACTalk Control Module (Alerton 715000100).....  | 5,709.91                  | 369.65                  |
| 23 09 23 53-0034 EA Foreign Protocol Converter For P1 Systems, BACTalk Control Module (Alerton BCM-FPCS).....   | 8,376.02                  | 492.86                  |
| 23 09 23 53-0035 EA Modbus Gateway, BACTalk Control Module (Alerton BCM-MDBS).....  | 8,273.60                  | 492.86                  |
| 23 09 23 53-0036 EA V.90/56K Modem, BACTalk Control Module (Alerton BCM-MDM).....   | 3,233.40                  | 369.65                  |
| 23 09 23 53-0037 EA 1 MS/TP, BACTalk Control Module (Alerton 715000300).....  | 3,833.64                  | 369.65                  |
| 23 09 23 53-0038 EA Power Supply, BACTalk Control Module (Alerton BCM-PWS).....   | 3,048.70                  | 369.65                  |
| 23 09 23 53-0039 EA 1 TUX Trunk, BACTalk Control Module (Alerton BCM-TUX).....  | 3,695.97                  | 369.65                  |
| 23 09 23 53-0040 EA Web Server And Configurator CD, BACTalk Control Module (Alerton BCM-WEB).....   | 8,203.20                  | 369.65                  |
| 23 09 23 53-0041 EA BACTalk Field Level Gateway For Modbus (Alerton FLG-MODBUS).....  | 4,105.52                  | 492.86                  |
| 23 09 23 53-0042 EA EXP BACnet Controller (Alerton VLX).....  | 8,920.41                  | 985.73                  |
| 23 09 23 53-0043 EA VLX BACnet High Performance Controller (Alerton VLX-PLATINUM).....  | 10,234.23                 | 985.73                  |
| 23 09 23 53-0044 EA Multiple Segment MS/TP Repeater (Alerton MSTP-REP).....   | 1,328.66                  | 109.75                  |
| 23 09 23 53-0045 EA 4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD).....   | 2,708.72                  | 369.65                  |
| 23 09 23 53-0046 EA 4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7).....  | 2,847.24                  | 369.65                  |
| 23 09 23 53-0047 EA 4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD).....   | 2,368.73                  | 369.65                  |
| 23 09 23 53-0048 EA 4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A).....  | 2,561.82                  | 369.65                  |
| 23 09 23 53-0049 EA 5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD).....   | 2,553.42                  | 369.65                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 09 23 53-0050 EA 11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACtalk Field Controller For Central Plant Systems (Alerton VLC-1188) .....                           | 3,661.55                  | 369.65                  |
| 23 09 23 53-0051 EA 16 Inputs, BACtalk Field Controller (Alerton VLC-1600) .....   | 2,898.45                  | 369.65                  |
| 23 09 23 53-0052 EA 16 Inputs, 16 Binary Triac Outputs, BACtalk Field Controller (Alerton VLC-16160) .....   | 4,286.03                  | 492.86                  |
| 23 09 23 53-0053 EA 4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444) .....   | 1,926.43                  | 246.44                  |
| 23 09 23 53-0054 EA 5 Inputs, 5 Binary Outputs, BACtalk Field Controller (Alerton VLC-550) .....   | 1,871.01                  | 246.44                  |
| 23 09 23 53-0055 EA 6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACtalk Field Controller (Alerton VLC-651R) .....  | 2,574.40                  | 369.65                  |
| 23 09 23 53-0056 EA 6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACtalk Field Controller (Alerton VLC-660R) .....  | 2,574.40                  | 369.65                  |
| 23 09 23 53-0057 EA 8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACtalk Field Controller (Alerton VLC-853) .....   | 3,021.85                  | 369.65                  |
| 23 09 23 53-0058 EA 16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688) .....  | 5,755.98                  | 492.86                  |
| 23 09 23 53-0059 EA 2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362) .....                             | 2,654.15                  | 369.65                  |
| 23 09 23 53-0060 EA Wireless Door Contact Sensor (Alerton AL-OC-DS) .....  | 168.87                    | 13.86                   |
| 23 09 23 53-0061 EA One-Speed BACtalk Microset Wall Sensor (Alerton MS-1010-BT) .....  | 266.59                    | 13.86                   |
| 23 09 23 53-0062 EA One-Speed BACtalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT) .....  | 662.82                    | 13.86                   |
| 23 09 23 53-0063 EA Three-Speed BACtalk Microset Wall Sensor (Alerton MS-1030-BT) .....  | 662.82                    | 13.86                   |
| 23 09 23 53-0064 EA Three-Speed BACtalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT) .....  | 518.45                    | 13.86                   |
| 23 09 23 53-0065 EA BACnet-Compliant Wall Sensor (Alerton TS-1050-BT) .....  | 182.65                    | 13.86                   |
| 23 09 23 53-0066 EA Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT) .....  | 698.93                    | 13.86                   |
| 23 09 23 53-0067 EA Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT) .....                                 | 782.89                    | 13.86                   |
| 23 09 23 53-0068 EA 10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0) .....   | 3,653.16                  | 369.65                  |
| 23 09 23 53-0069 EA 10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8) .....   | 3,859.66                  | 369.65                  |
| 23 09 23 53-0070 EA 22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0) .....   | 3,681.70                  | 369.65                  |
| 23 09 23 53-0071 EA 50 Devices, Ascent Compass 1 Software, Small License (Alerton Compass-1-SM) .....  | 11,320.51                 |                         |
| 23 09 23 53-0072 EA Global Controller Base Unit (Alerton ACM) .....  | 6,136.75                  | 369.65                  |
| 23 09 23 53-0073 EA External Battery Pack For ACM (Alerton ACM-BATT) .....   | 1,335.24                  | 205.61                  |
| 23 09 23 53-0074 EA Licenses The ACM For Capacity Of 32 Directly Connected Devices (Alerton ACM032) .....  | 1,032.88                  |                         |
| 23 09 23 53-0075 EA Microset 4 Wall Sensor (Alerton MS4-THC) .....   | 1,196.47                  | 13.86                   |
| <b>23 09 23 53-0076 Automated Logic Controls (23 09 23 53)</b>   |                           |                         |
| 23 09 23 53-0077 EA 0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100) .....  | 4,070.10                  | 369.65                  |
| 23 09 23 53-0078 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320) .....   | 9,390.24                  | 1,108.94                |
| 23 09 23 53-0079 EA 2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx) .....   | 2,924.99                  | 369.65                  |
| 23 09 23 53-0080 EA 4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx) .....   | 5,882.56                  | 492.86                  |
| 23 09 23 53-0081 EA 8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx) .....   | 5,797.10                  | 492.86                  |
| 23 09 23 53-0082 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160) .....   | 9,543.25                  | 985.73                  |
| 23 09 23 53-0083 EA 8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx) .....   | 5,241.64                  | 492.86                  |
| 23 09 23 53-0084 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320) .....  | 5,129.75                  | 369.65                  |
| 23 09 23 53-0085 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160) .....  | 9,030.52                  | 985.73                  |
| 23 09 23 53-0086 EA No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642) .....    | 2,171.17                  | 246.44                  |
| 23 09 23 53-0087 EA With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D) ..... | 2,303.52                  | 246.44                  |
| 23 09 23 53-0088 EA 3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+) .....                | 3,037.42                  | 246.44                  |
| 23 09 23 53-0089 EA 1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+) .....                | 2,941.28                  | 246.44                  |
| 23 09 23 53-0090 EA Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF) .....  | 2,702.80                  | 369.65                  |
| 23 09 23 53-0091 EA Unlimited Points, Front End Software For Building Control (Automated Logic WC) .....   | 14,891.22                 |                         |
| 23 09 23 53-0092 EA 500 Point, Front End Software For Building Control (Automated Logic WC500) .....   | 9,678.40                  |                         |
| 23 09 23 53-0093 EA Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE) .....   | 11,914.16                 |                         |
| <b>23 09 23 53-0094 Cypress Envirosystems Controls (23 09 23 53)</b>   |                           |                         |
| <b>23 09 23 53-0095 Wireless Pneumatic Thermostat (23 09 23 53-0094)</b>   |                           |                         |
| Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.   |                           |                         |
| 23 09 23 53-0096 EA Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2DP) .....   | 558.20                    | 15.41                   |
| Note: One for every thermostat to be retrofitted.  |                           |                         |
| For >50 To 200, Deduct   | -28.18                    |                         |
| For >200, Deduct   | -56.32                    |                         |
| 23 09 23 53-0097 EA Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2RP) .....  | 558.20                    | 15.41                   |
| Note: One for every thermostat to be retrofitted.  |                           |                         |
| For >50 To 200, Deduct   | -28.18                    |                         |
| For >200, Deduct   | -56.32                    |                         |
| 23 09 23 53-0098 EA Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1DP) .....  | 558.20                    | 15.41                   |
| Note: One for every thermostat to be retrofitted.  |                           |                         |
| For >50 To 200, Deduct   | -28.18                    |                         |
| For >200, Deduct   | -56.32                    |                         |
| 23 09 23 53-0099 EA Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1RP) .....  | 558.20                    | 15.41                   |
| Note: One for every thermostat to be retrofitted.  |                           |                         |
| For >50 To 200, Deduct   | -28.18                    |                         |
| For >200, Deduct   | -56.32                    |                         |
| 23 09 23 53-0100 EA Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2DP-DB) .....   | 633.69                    | 15.41                   |
| Note: One for every thermostat to be retrofitted.  |                           |                         |
| For >50 To 200, Deduct   | -32.38                    |                         |
| For >200, Deduct   | -64.70                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|---|--------------------------------|-------------------------|
| 23 09 23 53-0101 EA Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2RP-DB) .....<br>Note: One for every thermostat to be retrofitted.<br>For >50 To 200, Deduct<br>For >200, Deduct  | 633.69<br>-32.38<br>-64.70     | 15.41                   |
| 23 09 23 53-0102 EA Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP-DB) .....<br>Note: One for every thermostat to be retrofitted.<br>For >50 To 200, Deduct<br>For >200, Deduct   | 633.69<br>-32.38<br>-64.70     | 15.41                   |
| 23 09 23 53-0103 EA Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1RP-DB) .....<br>Note: One for every thermostat to be retrofitted.<br>For >50 To 200, Deduct<br>For >200, Deduct  | 633.69<br>-32.38<br>-64.70     | 15.41                   |
| 23 09 23 53-0104 EA Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV) .....<br>Note: Optional cover.<br>For >50 To 200, Deduct<br>For >200, Deduct   | 47.78<br>-1.80<br>-3.60        | 15.41                   |
| 23 09 23 53-0105 EA Green Box Controller (Cypress Envirosystems GBC-830-COM) .....<br>Note: One unit for up to 100 thermostats.<br>For 2, Deduct<br>For >2, Deduct  | 5,056.17<br>-246.87<br>-493.29 | 15.41                   |
| 23 09 23 53-0106 EA WPT USB Hub (Cypress Envirosystems WPT-800-HUSB) .....<br>Note: One unit for up to 100 thermostats.<br>For 2, Deduct<br>For >2, Deduct  | 478.66<br>-25.76<br>-51.47     | 15.41                   |
| 23 09 23 53-0107 EA WPT Repeater (Cypress Envirosystems WPT-800-RWAL) .....<br>Note: One unit for up to 15 thermostats.<br>For >5 To 10, Deduct<br>For >10, Deduct  | 842.23<br>-42.55<br>-85.02     | 15.41                   |
| 23 09 23 53-0108 EA 24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V) .....<br>Note: One unit for up to 15 thermostats.<br>For >5 To 10, Deduct<br>For >10, Deduct  | 1,043.86<br>-49.48<br>-98.86   | 15.41                   |
| <b>23 09 23 53-0109 Delta Controls</b> (23 09 23 53)  |                                |                         |
| <b>23 09 23 53-0110 Software</b> (23 09 23 53-0109)<br>Note: Excludes programming, set-up and commissioning of application.   |                                |                         |
| 23 09 23 53-0111 EA Orca Software Unlimited Points License (Delta Controls DOW333-USB) .....  | 2,578.59                       |                         |
| 23 09 23 53-0112 EA Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB) .....  | 4,196.70                       |                         |
| 23 09 23 53-0113 EA Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB) .....   | 9,092.85                       |                         |
| 23 09 23 53-0114 EA Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB) .....  | 14,469.24                      |                         |
| 23 09 23 53-0115 EA Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB) .....   | 7,474.74                       |                         |
| 23 09 23 53-0116 EA Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB) .....  | 2,578.59                       |                         |
| 23 09 23 53-0117 EA 100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01) .....  | 6,075.84                       |                         |
| 23 09 23 53-0118 EA 1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02) .....  | 7,474.74                       |                         |
| 23 09 23 53-0119 EA KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amperes CT's And BACnet MS/TP Interface (Delta Controls H8186-CB) .....  | 2,728.42                       | 154.02                  |
| 23 09 23 53-0120 EA Delta Controls Touch Screen (Delta Controls DHMI-7-I) .....   | 2,859.41                       |                         |
| <b>23 09 23 53-0121 EMCS Central Equipment And Controllers</b> (23 09 23 53-0109)   |                                |                         |
| 23 09 23 53-0122 EA Fully Programmable, Native BACnet Building Controller (Delta Controls DSC-1616E + DFM1616) .....  | 9,940.19                       | 616.08                  |
| Note: Includes 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup   |                                |                         |
| 23 09 23 53-0123 EA Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA'S, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E) ..... | 7,701.95                       | 616.08                  |
| 23 09 23 53-0124 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146) .....   | 5,837.91                       | 616.08                  |
| 23 09 23 53-0125 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180) .....  | 5,837.91                       | 616.08                  |
| 23 09 23 53-0126 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146) .....   | 5,837.91                       | 616.08                  |
| 23 09 23 53-0127 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3) .....  | 5,497.04                       | 616.08                  |
| 23 09 23 53-0128 EA VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF) .....   | 1,851.17                       | 308.04                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 09 Instrumentation and Control for HVAC**

**23 09 23 Direct-Digital Control System for HVAC**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 09 23 53-0129 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240) ..... | 1,700.79                  | 308.04                  |
| 23 09 23 53-0130 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....   | 1,800.57                  | 308.04                  |
| 23 09 23 53-0131 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240) ..... | 1,700.79                  | 308.04                  |
| 23 09 23 53-0132 EA Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616) .....   | 3,778.44                  | 385.05                  |
| 23 09 23 53-0133 EA Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440) .....  | 982.77                    | 154.02                  |
| 23 09 23 53-0134 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404) .....   | 1,046.17                  | 154.02                  |
| 23 09 23 53-0135 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600).....  | 1,210.61                  | 154.02                  |
| <b>23 09 23 53-0136 Network, VAV And Special Sensors</b> (23 09 23 53-0109)   |                           |                         |
| 23 09 23 53-0137 EA BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24) .....   | 311.96                    | 49.29                   |
| 23 09 23 53-0138 EA BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24).....   | 418.40                    | 55.45                   |
| 23 09 23 53-0139 EA Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B).....   | 797.48                    | 23.10                   |
| <b>23 09 23 53-0140 Honeywell Controls</b> (23 09 23 53)  |                           |                         |
| <b>23 09 23 53-0141 EMCS Central Equipment And Controllers</b> (23 09 23 53-0140)   |                           |                         |
| <b>23 09 23 53-0142 EMCS Network Area Controllers (BACnet Or Lon)</b> (23 09 23 53-0141)  |                           |                         |
| Note: Includes loading software, software license, loading data base and mounting on wall.  |                           |                         |
| 23 09 23 53-0143 EA Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004).....  | 13,451.88                 | 750.84                  |
| Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.   |                           |                         |
| 23 09 23 53-0144 EA Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022).....   | 9,453.42                  | 750.84                  |
| Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-232 port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).   |                           |                         |
| 23 09 23 53-0145 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201).....   | 7,426.43                  | 750.84                  |
| Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.   |                           |                         |
| 23 09 23 53-0146 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ) .....   | 9,039.44                  | 750.84                  |
| Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.  |                           |                         |
| 23 09 23 53-0147 EA Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN).....  | 7,370.89                  | 750.84                  |
| Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.  |                           |                         |
| 23 09 23 53-0148 EA Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU) .....  | 7,370.89                  | 750.84                  |
| Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.   |                           |                         |
| 23 09 23 53-0149 EA 16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B).....  | 7,928.76                  | 750.84                  |
| Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.                            |                           |                         |
| 23 09 23 53-0150 EA 16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU).....  | 8,514.39                  | 750.84                  |
| Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.                            |                           |                         |
| 23 09 23 53-0151 EA 16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....  | 7,928.76                  | 750.84                  |
| Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.                            |                           |                         |
| 23 09 23 53-0152 EA 16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU).....  | 8,514.39                  | 750.84                  |
| Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.                            |                           |                         |
| 23 09 23 53-0153 EA 34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B).....  | 8,519.44                  | 750.84                  |
| Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.                            |                           |                         |
| 23 09 23 53-0154 EA 34 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-234-BU).....  | 9,105.07                  | 750.84                  |
| Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.                                       |                           |                         |
| 23 09 23 53-0155 EA 34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....  | 8,519.44                  | 750.84                  |
| Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.                            |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 09 23 53-0156 EA 34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU).....   | 9,105.07                  | 750.84                  |
| Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.  |                           |                         |
| 23 09 23 53-0157 EA Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX).....   | 9,011.68                  | 750.84                  |
| Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.  |                           |                         |
| 23 09 23 53-0158 EA Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only).....   | 10,967.99                 | 750.84                  |
| Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.  |                           |                         |
| 23 09 23 53-0159 EA Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ).....   | 11,571.29                 | 750.84                  |
| Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.   |                           |                         |
| 23 09 23 53-0160 EA Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ).....  | 13,527.61                 | 750.84                  |
| Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity. |                           |                         |
| 23 09 23 53-0161 EA Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX).....  | 11,599.06                 | 750.84                  |
| Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBs controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.   |                           |                         |
| 23 09 23 53-0162 EA Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ).....  | 15,327.42                 | 750.84                  |
| Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACEs, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.  |                           |                         |
| <b>23 09 23 53-0163 EMCS Network Interfaces (23 09 23 53-0141)</b>   |                           |                         |
| Note: Includes installation, start-up and tech labor.  |                           |                         |
| 23 09 23 53-0164 EA Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001).....   | 1,883.76                  | 207.93                  |
| Note: For desktop computer.  |                           |                         |
| 23 09 23 53-0165 EA Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009).....  | 1,612.40                  | 138.62                  |
| Note: For laptop computer.   |                           |                         |
| 23 09 23 53-0166 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010).....  | 2,069.65                  | 259.99                  |
| 23 09 23 53-0167 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002).....   | 3,118.49                  | 375.50                  |
| 23 09 23 53-0168 EA Two Way Lon Repeater (Honeywell Q7740A1008).....   | 1,656.93                  | 375.50                  |
| 23 09 23 53-0169 EA FTT Termination Module For Network Bus (Honeywell 209541B).....  | 128.36                    | 46.21                   |
| <b>23 09 23 53-0170 DDC Application Specific Controller Assemblies (23 09 23 53-0141)</b>  |                           |                         |
| Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.  |                           |                         |
| 23 09 23 53-0171 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....   | 3,147.71                  | 849.08                  |
| 23 09 23 53-0172 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....  | 2,570.13                  | 502.53                  |
| 23 09 23 53-0173 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....   | 3,390.28                  | 994.63                  |
| 23 09 23 53-0174 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....  | 2,812.71                  | 648.08                  |
| 23 09 23 53-0175 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....  | 3,729.36                  | 1,039.73                |
| 23 09 23 53-0176 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....   | 3,296.11                  | 779.03                  |
| 23 09 23 53-0177 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....  | 3,989.24                  | 1,195.67                |
| 23 09 23 53-0178 EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....   | 3,521.28                  | 915.03                  |
| 23 09 23 53-0179 EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....   | 2,814.97                  | 848.96                  |
| 23 09 23 53-0180 EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....  | 2,237.39                  | 502.53                  |
| 23 09 23 53-0181 EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....   | 3,132.71                  | 1,039.73                |
| 23 09 23 53-0182 EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....  | 2,554.98                  | 693.09                  |
| 23 09 23 53-0183 EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies.....   | 3,677.96                  | 862.94                  |
| 23 09 23 53-0184 EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies.....  | 3,088.83                  | 705.41                  |
| 23 09 23 53-0185 EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....   | 3,995.69                  | 1,195.65                |
| 23 09 23 53-0186 EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....  | 3,406.41                  | 794.74                  |
| 23 09 23 53-0187 EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....   | 4,583.30                  | 1,195.65                |
| 23 09 23 53-0188 EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....  | 4,057.79                  | 763.93                  |
| 23 09 23 53-0189 EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....   | 5,218.79                  | 1,195.65                |
| 23 09 23 53-0190 EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....  | 4,693.11                  | 894.85                  |
| <b>23 09 23 53-0191 DDC Programmable Controller Assemblies (23 09 23 53-0141)</b>  |                           |                         |
| Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 53-0198 for additional components.   |                           |                         |
| 23 09 23 53-0192 EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....  | 3,240.06                  | 918.42                  |
| 23 09 23 53-0193 EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....  | 3,718.69                  | 918.42                  |
| 23 09 23 53-0194 EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....   | 4,919.08                  | 1,080.14                |
| 23 09 23 53-0195 EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....   | 5,397.71                  | 1,080.14                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 09 23 53-0196 EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....   | 8,792.57                  | 1,264.96                |
| 23 09 23 53-0197 EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....   | 9,345.85                  | 1,264.96                |
| <b>23 09 23 53-0198 EMCS Optional DDC Controller Hardware</b> <small>(23 09 23 53-0141)</small>   |                           |                         |
| Note: Used to expand the capacity of DDC programmable controller assemblies.  |                           |                         |
| 23 09 23 53-0199 EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005).....   | 575.54                    |                         |
| Note: For constant volume single zone and heat pump AHUs.   |                           |                         |
| 23 09 23 53-0200 EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011).....   | 665.15                    |                         |
| Note: For constant volume single zone and heat pump AHUs.   |                           |                         |
| 23 09 23 53-0201 EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001).....   | 696.70                    |                         |
| Note: For constant volume single zone and heat pump AHUs.   |                           |                         |
| 23 09 23 53-0202 EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010).....  | 657.57                    |                         |
| 23 09 23 53-0203 EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016).....  | 667.67                    |                         |
| 23 09 23 53-0204 EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011).....  | 652.53                    |                         |
| 23 09 23 53-0205 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025).....  | 561.65                    |                         |
| 23 09 23 53-0206 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004).....  | 488.45                    |                         |
| 23 09 23 53-0207 EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002).....   | 715.63                    |                         |
| 23 09 23 53-0208 EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000).....  | 639.90                    |                         |
| 23 09 23 53-0209 EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002).....  | 706.80                    |                         |
| 23 09 23 53-0210 EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011).....  | 1,500.68                  |                         |
| 23 09 23 53-0211 EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017).....  | 1,866.71                  |                         |
| 23 09 23 53-0212 EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002).....   | 932.72                    |                         |
| 23 09 23 53-0213 EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010).....   | 918.84                    |                         |
| 23 09 23 53-0214 EA Hydronic Controller Without Wall Module (Honeywell W7762B1027).....   | 450.58                    |                         |
| 23 09 23 53-0215 EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016).....   | 512.43                    |                         |
| 23 09 23 53-0216 EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001).....   | 946.60                    |                         |
| 23 09 23 53-0217 EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001).....  | 1,012.24                  |                         |
| 23 09 23 53-0218 EA AI Module (Honeywell XFL521B).....  | 633.59                    |                         |
| 23 09 23 53-0219 EA AO Module (Honeywell XFL522B).....  | 633.59                    |                         |
| 23 09 23 53-0220 EA DI Module (Honeywell XFL523B).....  | 633.59                    |                         |
| 23 09 23 53-0221 EA DO Module (Honeywell XFL524B).....  | 633.59                    |                         |
| 23 09 23 53-0222 EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511).....  | 112.33                    |                         |
| 23 09 23 53-0223 EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513).....  | 212.04                    |                         |
| 23 09 23 53-0224 EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514).....   | 208.25                    |                         |
| 23 09 23 53-0225 EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI).....  | 637.38                    |                         |
| 23 09 23 53-0226 EA Lon Hub (Honeywell XIO-HUB).....  | 94.66                     |                         |
| 23 09 23 53-0227 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO).....   | 637.38                    |                         |
| 23 09 23 53-0228 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI).....  | 586.90                    |                         |
| 23 09 23 53-0229 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO).....   | 586.90                    |                         |
| 23 09 23 53-0230 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC).....   | 618.45                    |                         |
| 23 09 23 53-0231 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000).....   | 618.45                    |                         |
| 23 09 23 53-0232 EA Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI).....  | 889.81                    |                         |
| 23 09 23 53-0233 EA 16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16).....  | 1,050.10                  |                         |
| Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.   |                           |                         |
| 23 09 23 53-0234 EA 34 Point IO Module For Network Area Controllers (Honeywell W7750A2005).....   | 2,231.46                  |                         |
| Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.   |                           |                         |
| <b>23 09 23 53-0235 EMCS Software</b> <small>(23 09 23 53-0140)</small>   |                           |                         |
| <b>23 09 23 53-0236 Software Packages And License</b> <small>(23 09 23 53-0235)</small>   |                           |                         |
| Note: Includes installation on equipment.   |                           |                         |
| 23 09 23 53-0237 EA On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB).....   | 711.85                    |                         |
| Note: Requires UI services to be installed on NAC.  |                           |                         |
| 23 09 23 53-0238 EA Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX).....  | 2,773.57                  |                         |
| Note: Upgrade existing network area controller. As with other WEBS controllers, capacity is limited by the characteristics of the application including size and complexity.  |                           |                         |
| 23 09 23 53-0239 EA WEBStation-AX Software For Windows (Honeywell WEB-S-AX).....  | 7,951.48                  |                         |
| Note: Includes Archon database. WEBS controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).  |                           |                         |
| 23 09 23 53-0240 EA Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS).....   | 4,733.02                  |                         |
| Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.  |                           |                         |
| 23 09 23 53-0241 EA Upgrade Small Building To Large Building Software.....  | 5,424.06                  |                         |
| Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.   |                           |                         |
| 23 09 23 53-0242 EA Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W).....  | 3,835.69                  |                         |
| Note: One copy is included with WEB-S-AX and WEBStation-AX.   |                           |                         |
| 23 09 23 53-0243 EA WEBS Energy Suite (WES) Base Software (Honeywell WES-BASE-AX).....  | 6,795.41                  |                         |
| Note: Includes license for 10 points of E <sup>2</sup> Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E <sup>2</sup> Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project. |                           |                         |
| 23 09 23 53-0244 EA Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E <sup>2</sup> Profiler Points (Honeywell WES-CP-AX).....   | 932.77                    |                         |
| Note: Can be combined with the required single instance of WES-BASE as well as with any combination of other EP points and CP meters.   |                           |                         |
| 23 09 23 53-0245 EA Perpetual License For One Point Of E <sup>2</sup> Profiler (Honeywell WES-E2-AX).....   | 636.17                    |                         |
| Note: Can be combined with the required single instance of WES-BASE as well as with any number of other EP Points and Cost Profiler meters.   |                           |                         |
| 23 09 23 53-0246 EA Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters.....   | 36,586.96                 |                         |
| Note: Sold on a per server basis. Purchase of this product must be accompanied by VES-M1-ENT-AX maintenance. The first year price of maintenance is included with VES-ENT-AX.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 09 23 53-0247 EA Annual Maintenance For Enterprise WEBS-AX Energy Suite (Honeywell WES-M1-ENT-AX).....  | 33,393.22                 |                         |
| Note: The first year cost of VES-M1-ENT-AX is included with VES-ENT-AX. After the first year VES-M1-ENT-AX maintenance fee will be invoiced annually.  |                           |                         |
| 23 09 23 53-0248 EA Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX) .....  | 12,679.46                 |                         |
| 23 09 23 53-0249 EA Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS).....  | 9,461.00                  |                         |
| 23 09 23 53-0250 EA Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500).....  | 2,735.06                  |                         |
| 23 09 23 53-0251 EA Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500) .....   | 2,735.06                  |                         |
| 23 09 23 53-0252 EA Vykon Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL) .....   | 18,932.10                 |                         |
| Note: Excludes Oracle.   |                           |                         |
| 23 09 23 53-0253 EA Open System Driver Option (Honeywell WS-SNMP-500).....   | 2,524.28                  |                         |
| Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchase with the WS or added later. Web Supervisor required to purchase this option.   |                           |                         |
| 23 09 23 53-0254 EA Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500) .....   | 2,735.06                  |                         |
| 23 09 23 53-0255 EA WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003).....  | 7,152.55                  |                         |
| Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.   |                           |                         |
| 23 09 23 53-0256 EA WEBStation Additional Node (Honeywell ZW2000B1002) .....   | 2,735.06                  |                         |
| 23 09 23 53-0257 EA WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001).....   | 45,858.59                 |                         |
| 23 09 23 53-0258 EA WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000).....   | 84,143.09                 |                         |
| 23 09 23 53-0259 EA WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009).....  | 147,250.09                |                         |
| 23 09 23 53-0260 EA Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008) .....   | 7,572.84                  |                         |
| 23 09 23 53-0261 EA Additional Master WEBStation Software Licenses (Honeywell ZW2000G1007) .....   | 3,786.42                  |                         |
| 23 09 23 53-0262 EA Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001).....   | 3,058.21                  |                         |
| 23 09 23 53-0263 EA Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055).....   | 3,341.53                  |                         |
| Note: As with other WEBS, capacity is limited by the characteristics of the application including size and complexity.   |                           |                         |
| <b>23 09 23 53-0264 Initial Database Generation (23 09 23 53-0235)</b>   |                           |                         |
| 23 09 23 53-0265 PNT Database Generation For Central Plant.....  | 103.34                    |                         |
| 23 09 23 53-0266 PNT Database Generation For Programmable Controller .....   | 103.34                    |                         |
| Note: For VAV AHU, large CV AHU, or heat exchanger, etc.   |                           |                         |
| 23 09 23 53-0267 EA Database Generation For Application Specific Controller.....   | 103.34                    |                         |
| Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.   |                           |                         |
| 23 09 23 53-0268 EA Replication Of Database Generation For Application Specific Controller .....   | 71.93                     |                         |
| Note: Price per copy made.   |                           |                         |
| 23 09 23 53-0269 EA Database Generation For Remote IO Modules, Sensors, Etcetera .....   | 71.93                     |                         |
| <b>23 09 23 53-0270 Application Software Programs (23 09 23 53-0235)</b>   |                           |                         |
| 23 09 23 53-0271 EA Basic Application Program Package.....   | 4,312.55                  |                         |
| Note: One per project. Includes program inputs, command priorities, alarms, trends for analog and digital points, energy totalization, schedules, calendars, special events, occupied and unoccupied setpoints, ventilation and recirculation modes, hot water reset program, chilled water reset program, condenser water reset program, and fail-over logic. |                           |                         |
| 23 09 23 53-0272 EA Optimum Start/Stop Program.....  | 144.17                    |                         |
| Note: Priced per controller requiring optimum start programming.   |                           |                         |
| 23 09 23 53-0273 EA Duty Cycling Program.....  | 68.08                     |                         |
| 23 09 23 53-0274 EA Hot Deck/Cold Deck Reset Application Program .....   | 7,408.79                  |                         |
| 23 09 23 53-0275 EA Boiler Optimization Program .....  | 9,708.77                  |                         |
| 23 09 23 53-0276 EA Chiller Optimization Program .....   | 13,151.50                 |                         |
| 23 09 23 53-0277 EA Lighting Control Program .....   | 6,346.42                  |                         |
| 23 09 23 53-0278 EA Demand Limiting Program .....  | 126.45                    |                         |
| Note: Priced per controller requiring optimum start programming.   |                           |                         |
| 23 09 23 53-0279 EA Email Alarm Server Configuration.....  | 4,895.98                  |                         |
| <b>23 09 23 53-0280 Color Graphics Generation (23 09 23 53-0235)</b>   |                           |                         |
| Note: Priced per page.   |                           |                         |
| 23 09 23 53-0281 EA Single Site Home Page Graphics Page With HTML Navigation Code.....   | 2,584.16                  |                         |
| 23 09 23 53-0282 EA Multi Site Home Page Graphics Page With HTML Navigation Code .....   | 4,588.07                  |                         |
| 23 09 23 53-0283 EA Color Graphics Page For Central Plant .....  | 1,174.10                  |                         |
| 23 09 23 53-0284 EA Color Graphics Page For Building Floor Plan .....  | 1,084.14                  |                         |
| 23 09 23 53-0285 EA Replication Of Color Graphics Page For Central Plant .....   | 588.97                    |                         |
| 23 09 23 53-0286 EA Color Graphics Page For Programmable Controller .....  | 1,320.87                  |                         |
| Note: For VAV AHU, large CV AHU, or heat exchanger, etc.   |                           |                         |
| 23 09 23 53-0287 EA Replication Of Color Graphics Page For Programmable Controller.....  | 282.48                    |                         |
| Note: Priced per copy made.  |                           |                         |
| 23 09 23 53-0288 EA Color Graphics Page For Application Specific Controller.....   | 1,221.68                  |                         |
| Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.   |                           |                         |
| 23 09 23 53-0289 EA Replication Of Color Graphics Page For Application Specific Cont .....   | 122.14                    |                         |
| Note: Priced per copy made.  |                           |                         |
| <b>23 09 23 53-0290 Sensors, Actuators And Control Devices (23 09 23 53-0140)</b>  |                           |                         |
| Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.   |                           |                         |
| <b>23 09 23 53-0291 Special Sensors (23 09 23 53-0290)</b>   |                           |                         |
| 23 09 23 53-0292 EA Dewpoint Sensor (Honeywell C7232B1014).....  | 2,300.67                  | 95.34                   |
| 23 09 23 53-0293 EA Enthalpy Sensor -25 To 125 F.....  | 2,398.20                  | 95.34                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 09 23 53-0294 EA Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002) .....  | 1,157.04                  | 190.68                  |
| 23 09 23 53-0295 EA Freezestat (Honeywell L482A1004).....  | 813.28                    | 317.74                  |
| 23 09 23 53-0296 EA Wall Mounted Occupancy Sensor.....   | 565.13                    | 95.34                   |
| 23 09 23 53-0297 EA Ceiling Mounted Occupancy Sensor.....  | 457.61                    | 95.34                   |
| 23 09 23 53-0298 EA I/P Positioner With Gauge.....   | 537.63                    | 95.34                   |
| 23 09 23 53-0299 EA Non-Communicating Duct Mounted Smoke Detector With Sampling Tube .....   | 644.63                    | 95.34                   |
| 23 09 23 53-0300 EA EP Transducer.....   | 537.63                    | 63.61                   |
| 23 09 23 53-0301 EA Electric Heat Sequencer .....  | 861.47                    | 127.06                  |
| <b>23 09 23 53-0302 Meters</b> (23 09 23 53-0290)  |                           |                         |
| 23 09 23 53-0303 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer.....   | 5,475.63                  | 762.40                  |
| 23 09 23 53-0304 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer With LON interface .....   | 7,995.66                  | 889.46                  |
| 23 09 23 53-0305 EA 1 To 300 Amperes, Current Transformer For KW Meter.....  | 1,955.68                  | 317.74                  |
| 23 09 23 53-0306 EA 300 To 800 Amperes, Current Transformer For KW Meter.....  | 2,206.96                  | 317.74                  |
| 23 09 23 53-0307 EA 800 To 2,400 Amperes, Current Transformer For KW Meter .....   | 2,688.87                  | 317.74                  |
| <b>23 09 23 53-0308 Direct Coupled Actuators</b> (23 09 23 53-0290)  |                           |                         |
| 23 09 23 53-0309 EA 44 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002).....                                    | 748.88                    | 126.70                  |
| 23 09 23 53-0310 EA 88 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200).....                                    | 819.67                    | 126.70                  |
| 23 09 23 53-0311 EA 175 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209).....                                   | 941.39                    | 126.70                  |
| 23 09 23 53-0312 EA 44 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008).....                                     | 707.46                    | 126.70                  |
| 23 09 23 53-0313 EA 88 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206).....                                     | 783.59                    | 126.70                  |
| 23 09 23 53-0314 EA 175 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205).....                                    | 858.98                    | 126.70                  |
| 23 09 23 53-0315 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator.....                              | 787.75                    | 126.70                  |
| 23 09 23 53-0316 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206).....      | 896.31                    | 126.70                  |
| 23 09 23 53-0317 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205).....     | 1,013.49                  | 126.70                  |
| 23 09 23 53-0318 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209)..... | 650.98                    | 126.70                  |
| 23 09 23 53-0319 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209)..... | 708.78                    | 126.70                  |
| 23 09 23 53-0320 EA 175 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200).....                | 824.91                    | 126.70                  |
| 23 09 23 53-0321 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007) .....                    | 879.57                    | 126.70                  |
| 23 09 23 53-0322 EA 300 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030).....               | 878.89                    | 126.70                  |
| 23 09 23 53-0323 EA 300 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008) .....                    | 1,028.80                  | 126.70                  |
| 23 09 23 53-0324 EA Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018).....  | 674.67                    | 126.70                  |
| 23 09 23 53-0325 EA Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368).....   | 1,161.25                  | 126.70                  |
| 23 09 23 53-0326 EA Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator .....  | 514.55                    | 126.70                  |
| 23 09 23 53-0327 EA Direct Coupled Damper Actuator Enclosure For Outdoor Use.....  | 773.16                    | 126.70                  |
| <b>23 09 23 53-0328 Thermostats</b> (23 09 23 53-0140)   |                           |                         |
| <b>23 09 23 53-0329 Electric And Electronic Thermostats</b> (23 09 23 53-0328)   |                           |                         |
| Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.                  |                           |                         |
| 23 09 23 53-0330 EA Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018) .....  | 255.58                    | 23.10                   |
| 23 09 23 53-0331 EA Electronic Non-Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320) .....                                       | 273.52                    | 23.10                   |
| 23 09 23 53-0332 EA Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110).....                                      | 253.59                    | 23.10                   |
| 23 09 23 53-0333 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220).....                              | 280.89                    | 23.10                   |
| 23 09 23 53-0334 EA Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320).....                            | 301.42                    | 23.10                   |
| 23 09 23 53-0335 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321).....                              | 432.98                    | 23.10                   |
| 23 09 23 53-0336 EA Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F) .....                          | 620.35                    | 23.10                   |
| 23 09 23 53-0337 EA Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H).....                    | 990.82                    | 23.10                   |
| 23 09 23 53-0338 EA Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M) .....        | 1,055.19                  | 23.10                   |
| <b>23 09 23 53-0339 Pneumatic Thermostats</b> (23 09 23 53-0328)   |                           |                         |
| Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.                  |                           |                         |
| 23 09 23 53-0340 EA Pneumatic Thermostat (Honeywell TP970B2182).....   | 340.42                    | 23.10                   |
| <b>23 09 23 53-0341 Thermostats Guards</b> (23 09 23 53-0328)  |                           |                         |
| 23 09 23 53-0342 EA 9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009).....  | 84.98                     | 23.10                   |
| 23 09 23 53-0343 EA 7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511) .....  | 99.93                     | 23.10                   |
| 23 09 23 53-0344 EA 5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510).....  | 94.55                     | 23.10                   |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 23 09 23 53-0345 |       |     |     | <b>Johnson Controls</b> (23 09 23 53)   |                        |                      |
| 23 09 23 53-0346 |       |     |     | <b>Software</b> (23 09 23 53-0345)<br>Note: Excludes programming, set-up and commissioning of application.  |                        |                      |
| 23 09 23 53-0347 | EA    |     |     | 5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0).....   | 20,364.34              |                      |
| 23 09 23 53-0348 | EA    |     |     | 10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0).....   | 24,069.31              |                      |
| 23 09 23 53-0349 | EA    |     |     | N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0).....   | 1,263.58               |                      |
| 23 09 23 53-0350 | EA    |     |     | N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2).....   | 1,874.17               |                      |
| 23 09 23 53-0351 | EA    |     |     | BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0).....  | 3,259.29               |                      |
| 23 09 23 53-0352 | EA    |     |     | BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0).....  | 1,273.93               |                      |
| 23 09 23 53-0353 | EA    |     |     | New User FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0).....                  | 1,267.01               |                      |
| 23 09 23 53-0354 | EA    |     |     | Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6).....                   | 511.79                 |                      |
| 23 09 23 53-0355 |       |     |     | <b>Supervisory Controllers</b> (23 09 23 53-0345)   |                        |                      |
| 23 09 23 53-0356 | EA    |     |     | NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2).....  | 9,708.15               | 616.08               |
| 23 09 23 53-0357 | EA    |     |     | NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2).....   | 14,594.37              | 616.08               |
| 23 09 23 53-0358 | EA    |     |     | NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1).....  | 19,491.43              | 616.08               |
| 23 09 23 53-0359 | EA    |     |     | NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS-NCE2510-0).....   | 7,826.01               | 616.08               |
| 23 09 23 53-0360 |       |     |     | <b>Controllers</b> (23 09 23 53-0345)   |                        |                      |
| 23 09 23 53-0361 | EA    |     |     | 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0).....                   | 1,135.32               | 154.02               |
| 23 09 23 53-0362 | EA    |     |     | 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0).....  | 1,461.13               | 308.04               |
| 23 09 23 53-0363 | EA    |     |     | 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0).....                 | 1,979.88               | 308.04               |
| 23 09 23 53-0364 | EA    |     |     | 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0).....              | 2,305.68               | 308.04               |
| 23 09 23 53-0365 | EA    |     |     | BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0).....  | 948.40                 | 154.02               |
| 23 09 23 53-0366 | EA    |     |     | BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0).....                              | 1,031.48               | 154.02               |
| 23 09 23 53-0367 | EA    |     |     | BACnet MS/TP 12 Point I/O Module with 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0).....                             | 1,156.10               | 154.02               |
| 23 09 23 53-0368 | EA    |     |     | 17 Point I/O Module with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IOU4710-0).....                             | 1,172.70               | 154.02               |
| 23 09 23 53-0369 | EA    |     |     | BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2).....   | 2,390.45               | 308.04               |
| 23 09 23 53-0370 | EA    |     |     | 32-bit, Integrated VAV Controller/Actuator/DPT, 3 UI, 3 BO, and 2 CO; 24 Volt AC; Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1630-0).....           | 1,150.43               | 154.02               |
| 23 09 23 53-0371 | EA    |     |     | 32-bit, Integrated VAV Controller/Actuator/Pressure Sensor - DPT, 3 UI and 3 BO, 2 CO, 24 Volt AC, and Sensor Actuator Bus (Johnson Controls MS-VMA1930-0).....               | 1,624.22               | 154.02               |
|                  |       |     |     | Note: Includes 6-pin Sensor Port for use with TE-7xx Series Non-Communicating Sensors and two Ethernet Ports for BACnet/IP Communications                                     |                        |                      |
| 23 09 23 53-0372 |       |     |     | <b>Master FX Controllers</b> (23 09 23 53-0345)   |                        |                      |
| 23 09 23 53-0373 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C).....                | 2,961.92               | 308.04               |
| 23 09 23 53-0374 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C).....           | 3,158.79               | 308.04               |
| 23 09 23 53-0375 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C).....               | 3,256.62               | 308.04               |
| 23 09 23 53-0376 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C).....            | 3,197.17               | 308.04               |
| 23 09 23 53-0377 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C).....           | 3,104.25               | 308.04               |
| 23 09 23 53-0378 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C).....       | 3,119.15               | 308.04               |
| 23 09 23 53-0379 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C).....  | 3,104.25               | 308.04               |
| 23 09 23 53-0380 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C).....          | 3,159.01               | 308.04               |
| 23 09 23 53-0381 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C).....     | 3,329.03               | 308.04               |
| 23 09 23 53-0382 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C).....         | 3,442.37               | 308.04               |
| 23 09 23 53-0383 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C).....      | 3,385.69               | 308.04               |
| 23 09 23 53-0384 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C).....     | 3,269.68               | 308.04               |
| 23 09 23 53-0385 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C)..... | 3,159.01               | 308.04               |
| 23 09 23 53-0386 | EA    |     |     | 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C)..... | 3,329.03               | 308.04               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 09 23 53-0387 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C).....                                      | 3,442.37                  | 308.04                  |
| 23 09 23 53-0388 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C).....                                   | 3,385.69                  | 308.04                  |
| 23 09 23 53-0389 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C).....                                  | 3,269.68                  | 308.04                  |
| 23 09 23 53-0390 EA N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C).....  | 354.83                    | 77.01                   |
| 23 09 23 53-0391 EA LON Communication Card For FX15 and FX16 (Johnson Controls LP-NET152-010C).....   | 494.31                    | 77.01                   |
| 23 09 23 53-0392 EA RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C).....   | 393.98                    | 77.01                   |
| 23 09 23 53-0393 EA BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C).....  | 354.83                    | 77.01                   |
| 23 09 23 53-0394 EA Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C).....  | 974.94                    | 77.01                   |
| 23 09 23 53-0395 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....  | 903.19                    | 77.01                   |
| 23 09 23 53-0396 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....   | 920.00                    | 77.01                   |
| 23 09 23 53-0397 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....   | 920.00                    | 77.01                   |
| 23 09 23 53-0398 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....  | 1,003.91                  | 77.01                   |
| 23 09 23 53-0399 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....   | 1,003.91                  | 77.01                   |
| 23 09 23 53-0400 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....  | 1,245.16                  | 77.01                   |
| 23 09 23 53-0401 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C).....  | 1,245.16                  | 77.01                   |
| 23 09 23 53-0402 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C).....   | 1,381.52                  | 77.01                   |
| 23 09 23 53-0403 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C).....  | 1,381.52                  | 77.01                   |
| <b>23 09 23 53-0404 VAV, Network And Special Sensors (23 09 23 53-0345)</b>   |                           |                         |
| 23 09 23 53-0405 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0).....                | 640.96                    | 49.29                   |
| 23 09 23 53-0406 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0).....   | 228.99                    | 49.29                   |
| 23 09 23 53-0407 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0).....  | 501.00                    | 49.29                   |
| 23 09 23 53-0408 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0)..... | 738.56                    | 49.29                   |
| 23 09 23 53-0409 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0).....   | 259.83                    | 49.29                   |
| 23 09 23 53-0410 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0).....   | 671.58                    | 49.29                   |
| <b>23 09 23 53-0411 Sensors - Hard Wired Type (23 09 23 53-0345)</b>  |                           |                         |
| 23 09 23 53-0412 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00).....  | 240.40                    | 88.72                   |
| 23 09 23 53-0413 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0).....   | 193.71                    | 49.29                   |
| 23 09 23 53-0414 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2).....   | 503.73                    | 23.10                   |
| 23 09 23 53-0415 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2).....  | 674.23                    | 23.10                   |
| 23 09 23 53-0416 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2).....  | 504.67                    | 23.10                   |
| 23 09 23 53-0417 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2).....   | 656.36                    | 49.29                   |
| 23 09 23 53-0418 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR).....   | 803.92                    | 49.29                   |
| <b>23 09 23 53-0419 Melink Intelli-Hood IH3 Controls (23 09 23 53)</b>  |                           |                         |
| <b>23 09 23 53-0420 Kitchen Ventilation Controllers (23 09 23 53-0419)</b>  |                           |                         |
| 23 09 23 53-0421 EA Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001).....  | 11,134.27                 | 616.08                  |
| 23 09 23 53-0422 EA Graphical User Interface (Melink Intelli-Hood 2KPD-3001).....   | 2,011.17                  | 127.06                  |
| 23 09 23 53-0423 EA Hood Controller (Melink Intelli-Hood 2SEN-3001).....  | 3,445.93                  | 512.88                  |
| <b>23 09 23 53-0424 Kitchen Ventilation Sensors (23 09 23 53-0419)</b>  |                           |                         |
| 23 09 23 53-0425 EA Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q).....   | 612.90                    | 88.72                   |
| 23 09 23 53-0426 EA Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28).....   | 5,142.66                  | 492.86                  |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
| <b>23 09 23 53-0427</b> |       |     |     | <b>Siemens Controls</b> (23 09 23 53)   |                        |                      |
| 23 09 23 53-0428        | EA    |     |     | Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083).....  | 486.48                 | 23.10                |
| 23 09 23 53-0429        | EA    |     |     | Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085).....  | 349.90                 | 23.10                |
| 23 09 23 53-0430        | EA    |     |     | SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575).....   | 385.08                 | 104.06               |
| 23 09 23 53-0431        | EA    |     |     | -0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591).....   | 559.75                 | 104.06               |
| 23 09 23 53-0432        | EA    |     |     | Spring Clip Mounting Kit For Thermostat (Siemens 182-685).....  | 81.37                  | 15.41                |
| 23 09 23 53-0433        | EA    |     |     | Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001).....  | 274.02                 | 154.02               |
| 23 09 23 53-0434        | EA    |     |     | 3/4" Two Way, Normally Closed, 6.3 Cv, FxF, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012).....            | 440.23                 | 26.64                |
| 23 09 23 53-0435        | EA    |     |     | 1" Three Way, 10 Cv, FxF, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079).....                    | 777.10                 | 48.38                |
| 23 09 23 53-0436        | EA    |     |     | 1" Three Way, 10 Cv, FxF, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203)..... | 1,543.02               | 48.38                |
| 23 09 23 53-0437        | EA    |     |     | 1-1/4" Two Way, 16 Cv, FxF, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006)..... | 1,313.99               | 61.28                |
| 23 09 23 53-0438        | EA    |     |     | 36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36).....  | 378.56                 | 88.72                |
| 23 09 23 53-0439        | EA    |     |     | -58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768).....  | 306.62                 | 49.29                |
| 23 09 23 53-0440        | EA    |     |     | Unit Conditioner Controller With Secure Mode (Siemens 540-110C).....  | 652.88                 | 72.70                |
| 23 09 23 53-0441        | EA    |     |     | 9-Pin, Female To RJ-11 Cable (Siemens 540-143).....   | 118.54                 | 7.70                 |
| 23 09 23 53-0442        | EA    |     |     | Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800).....  | 1,070.27               | 147.86               |
| 23 09 23 53-0443        | EA    |     |     | MMI Extension Cable (Siemens 545-712).....  | 189.03                 | 7.70                 |
| 23 09 23 53-0444        | EA    |     |     | Remote Pressure Transmitter (Siemens 547-003).....  | 1,512.80               | 49.29                |
| 23 09 23 53-0445        | EA    |     |     | Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400).....  | 946.14                 | 36.96                |
| 23 09 23 53-0446        | EA    |     |     | BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433).....  | 839.43                 | 98.57                |
| 23 09 23 53-0447        | EA    |     |     | Door Lock And Key Assembly (Siemens 567-225).....   | 49.54                  | 30.80                |
| 23 09 23 53-0448        | EA    |     |     | Insight Advanced Software Package (Siemens 571-010-381-USB).....  | 15,203.31              |                      |
|                         |       |     |     | Note: Includes one user license and one sentinel key.   |                        |                      |
| 23 09 23 53-0449        | EA    |     |     | BACnet Client Option For Insight Advanced Software Package (Siemens 571-188).....   | 627.30                 |                      |
| 23 09 23 53-0450        | EA    |     |     | Soft Controller Option For Insight Advanced Software Package (Siemens 571-620).....   | 3,419.48               |                      |
| 23 09 23 53-0451        | EA    |     |     | 1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059).....  | 517.49                 | 16.09                |
| 23 09 23 53-0452        | EA    |     |     | 2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03062).....  | 1,083.77               | 27.88                |
| 23 09 23 53-0453        | EA    |     |     | Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C).....       | 9,952.23               | 61.61                |
| 23 09 23 53-0454        | EA    |     |     | SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modem With HOA (Siemens 986-83482F).....          | 11,720.46              | 61.61                |
| 23 09 23 53-0455        | EA    |     |     | 7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U).....   | 190.60                 | 23.10                |
| 23 09 23 53-0456        | EA    |     |     | Two Position, 24 Volt AC/Volt DC, Standard Cabling, Dual Auxillary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U).....             | 482.03                 | 61.44                |
| 23 09 23 53-0457        | EA    |     |     | Modulating, 0 To 10 Volt DC, 24 Volt AC/Volt DC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U).....                       | 512.69                 | 61.44                |
| 23 09 23 53-0458        | EA    |     |     | License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-36.A).....                                 | 4,389.36               |                      |
| 23 09 23 53-0459        | EA    |     |     | License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN).....   | 886.33                 |                      |
| 23 09 23 53-0460        | EA    |     |     | License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A).....   | 2,852.57               |                      |
| 23 09 23 53-0461        | EA    |     |     | License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM-FPWEB).....   | 2,042.04               |                      |
| 23 09 23 53-0462        | EA    |     |     | License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A).....   | 1,755.44               |                      |
| 23 09 23 53-0463        | EA    |     |     | License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP).....   | 5,189.86               |                      |
| 23 09 23 53-0464        | EA    |     |     | 16-Switch HOA Upgrade Kit (Siemens PXA16-M).....  | 831.52                 | 3.08                 |
| 23 09 23 53-0465        | EA    |     |     | 16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR).....  | 927.29                 | 12.32                |
| 23 09 23 53-0466        | EA    |     |     | 8-Switch HOA Upgrade Kit (Siemens PXA8-M).....  | 472.90                 | 3.08                 |
| 23 09 23 53-0467        | EA    |     |     | 18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18).....  | 503.79                 | 86.25                |
| 23 09 23 53-0468        | EA    |     |     | 19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19).....  | 847.99                 | 86.25                |
| 23 09 23 53-0469        | EA    |     |     | 34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34).....  | 1,177.98               | 98.57                |
| 23 09 23 53-0470        | EA    |     |     | Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24-Point Compact Series (Siemens PXA-HMI.CABLEP5).....         | 47.39                  | 15.41                |
| 23 09 23 53-0471        | EA    |     |     | 115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA).....  | 828.83                 | 38.51                |
| 23 09 23 53-0472        | EA    |     |     | 115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA).....  | 1,321.38               | 38.51                |
| 23 09 23 53-0473        | EA    |     |     | 230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA).....  | 1,010.30               | 38.51                |
| 23 09 23 53-0474        | EA    |     |     | 230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA).....  | 1,528.79               | 38.51                |
| 23 09 23 53-0475        | EA    |     |     | PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A).....                | 4,460.01               | 77.01                |
| 23 09 23 53-0476        | EA    |     |     | PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A).....  | 5,760.26               | 77.01                |
| 23 09 23 53-0477        | EA    |     |     | Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A).....   | 6,558.54               | 77.01                |
| 23 09 23 53-0478        | EA    |     |     | 16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A).....  | 1,824.98               | 77.01                |
| 23 09 23 53-0479        | EA    |     |     | 16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A).....  | 2,176.61               | 77.01                |
| 23 09 23 53-0480        | EA    |     |     | 16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A).....  | 1,943.63               | 77.01                |
| 23 09 23 53-0481        | EA    |     |     | 24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A).....  | 2,648.03               | 77.01                |
| 23 09 23 53-0482        | EA    |     |     | 24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A).....  | 2,890.82               | 77.01                |
| 23 09 23 53-0483        | EA    |     |     | 24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A).....  | 2,830.58               | 77.01                |
| 23 09 23 53-0484        | EA    |     |     | 24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-ERF.A).....  | 3,048.12               | 77.01                |
| 23 09 23 53-0485        | EA    |     |     | 24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A).....  | 2,825.10               | 77.01                |
| 23 09 23 53-0486        | EA    |     |     | 24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A).....  | 3,046.64               | 77.01                |
| 23 09 23 53-0487        | EA    |     |     | 36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A).....   | 3,918.74               | 77.01                |
| 23 09 23 53-0488        | EA    |     |     | 36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A).....   | 7,791.01               | 77.01                |
| 23 09 23 53-0489        | EA    |     |     | License To Enable The Island Bus On PXC00-E96.A And PXC00-PE96.A (Siemens PXF-TXIO.A).....  | 1,316.84               |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 09 23 53-0490 EA Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S).....   | 539.14                    | 38.51                   |
| 23 09 23 53-0491 EA Controller Mounted Operator Display Module (Siemens PXM10T).....  | 396.95                    | 38.51                   |
| 23 09 23 53-0492 EA Provides FLN Support For The PXC Modular (Siemens PXX-485.3).....   | 900.19                    | 30.80                   |
| Note: Includes Three RS-485 P1 FLN Connections Or One MS/TTP FLN Connection, Maximum Of 96 Devices Supported  |                           |                         |
| 23 09 23 53-0493 EA Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN)..... | 310.03                    | 38.51                   |
| 23 09 23 53-0494 EA Digital Temperature Room Unit for TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC).....  | 311.85                    | 49.29                   |
| 23 09 23 53-0495 EA 4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010).....  | 158.36                    | 38.51                   |
| 23 09 23 53-0496 EA 8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....   | 121.99                    | 38.51                   |
| 23 09 23 53-0497 EA 24" Flexible Averaging Probe (Siemens QAM2012.750).....   | 345.43                    | 77.01                   |
| 23 09 23 53-0498 EA 2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....   | 224.20                    | 57.76                   |
| 23 09 23 53-0499 EA 10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....  | 3,700.33                  | 496.25                  |
| 23 09 23 53-0500 EA Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....  | 43.67                     | 15.41                   |
| 23 09 23 53-0501 EA Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....  | 0.86                      |                         |
| 23 09 23 53-0502 EA 16 Digital Input Module (Siemens TXM1.16D).....   | 660.18                    | 15.41                   |
| 23 09 23 53-0503 EA 6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....  | 995.66                    | 15.41                   |
| 23 09 23 53-0504 EA 8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....  | 1,594.36                  | 30.80                   |
| 23 09 23 53-0505 EA 1.2 A, 4A Fuse, Power Supply (Siemens TXS1.12F4).....   | 488.65                    | 9.24                    |
| <b>23 09 23 53-0506 Trane Controls (23 09 23 53)</b>  |                           |                         |
| <b>23 09 23 53-0507 Software (23 09 23 53-0506)</b>   |                           |                         |
| Note: Excludes programming, set-up and commissioning of application.  |                           |                         |
| 23 09 23 53-0508 EA Summit + Building Management Package (Trane 40201152).....  | 7,597.01                  |                         |
| 23 09 23 53-0509 EA Summit Current Version Software (Trane 40201111).....   | 4,330.95                  |                         |
| 23 09 23 53-0510 EA Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113).....   | 1,023.71                  |                         |
| 23 09 23 53-0511 EA Rover Service Software And Hardware, Complete Kit (Trane X1365150001).....  | 4,305.42                  |                         |
| 23 09 23 53-0512 EA Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000).....   | 11,733.82                 |                         |
| <b>23 09 23 53-0513 EMCS Central Equipment And Controllers (23 09 23 53-0506)</b>   |                           |                         |
| 23 09 23 53-0514 EA Summit BTMX Operator Display Upgrade (Trane 40201224).....  | 7,446.19                  | 616.08                  |
| 23 09 23 53-0515 EA Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531).....  | 15,754.49                 | 616.08                  |
| 23 09 23 53-0516 EA Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532).....   | 15,754.49                 | 616.08                  |
| 23 09 23 53-0517 EA Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00).....  | 13,950.47                 | 616.08                  |
| 23 09 23 53-0518 EA Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10).....   | 16,047.99                 | 616.08                  |
| 23 09 23 53-0519 EA Summit CCP Upgrade ROM Kit (Trane 40201095).....  | 258.45                    | 38.51                   |
| 23 09 23 53-0520 EA Summit Comm5 Repeater (Trane 49500457).....   | 2,002.02                  | 308.04                  |
| 23 09 23 53-0521 EA AHU Controller MP580/581 E Board Only (Trane 40201157).....   | 3,298.90                  | 385.05                  |
| 23 09 23 53-0522 EA AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01).....   | 4,209.07                  | 462.06                  |
| 23 09 23 53-0523 EA AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00).....   | 3,375.46                  | 462.06                  |
| 23 09 23 53-0524 EA AHU Controller MP581 Operator Door Display (Trane 40201156).....  | 2,905.14                  | 462.06                  |
| 23 09 23 53-0525 EA AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491).....  | 2,902.54                  | 462.06                  |
| 23 09 23 53-0526 EA Controller MP503 I/O Module With Metal Enclosure (Trane 49500590).....  | 1,269.13                  | 154.02                  |
| 23 09 23 53-0527 EA Controller MP503 I/O Module With Plastic Cover (Trane 49500490).....  | 1,165.50                  | 154.02                  |
| 23 09 23 53-0528 EA Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500).....  | 2,123.86                  | 308.04                  |
| 23 09 23 53-0529 EA Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499).....  | 2,037.92                  | 308.04                  |
| 23 09 23 53-0530 EA 2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569).....  | 1,127.55                  | 154.02                  |
| 23 09 23 53-0531 EA 2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469).....   | 1,002.77                  | 154.02                  |
| 23 09 23 53-0532 EA 4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596).....  | 1,434.58                  | 154.02                  |
| 23 09 23 53-0533 EA 4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496).....  | 1,310.48                  | 154.02                  |
| 23 09 23 53-0534 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500499).....   | 1,138.65                  | 154.02                  |
| 23 09 23 53-0535 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496).....   | 1,091.01                  | 154.02                  |
| 23 09 23 53-0536 EA Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570).....  | 1,237.32                  | 154.02                  |
| 23 09 23 53-0537 EA Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470).....  | 1,138.65                  | 154.02                  |
| 23 09 23 53-0538 EA DDC VAV Retrofit Kit (Trane VRTODD01).....  | 1,654.32                  | 308.04                  |
| 23 09 23 53-0539 EA DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO).....   | 1,777.04                  | 308.04                  |
| <b>23 09 23 53-0540 Network, VAV And Special Sensors (23 09 23 53-0506)</b>   |                           |                         |
| 23 09 23 53-0541 EA Digital Display Zone Sensor (Trane X13790464010).....   | 264.60                    | 49.29                   |
| 23 09 23 53-0542 EA Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010).....  | 184.22                    | 49.29                   |
| 23 09 23 53-0543 EA Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010).....   | 170.66                    | 49.29                   |
| 23 09 23 53-0544 EA Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01).....   | 323.58                    | 55.45                   |
| 23 09 23 53-0545 EA Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121).....  | 202.75                    | 49.29                   |
| 23 09 23 53-0546 EA Zone Sensor LCD O/C Setpoint (Trane 41901120).....  | 202.75                    | 49.29                   |
| 23 09 23 53-0547 EA Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010).....   | 668.22                    | 88.72                   |
| 23 09 23 53-0548 EA Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010).....   | 596.76                    | 49.29                   |
| 23 09 23 53-0549 EA Transformer 120/24 40 VA (Trane X13550284010).....  | 163.88                    | 49.29                   |
| 23 09 23 53-0550 EA Transformer 24 Volt AC Wall Plug-In (Trane 35803005).....   | 159.04                    | 49.29                   |
| 23 09 23 53-0551 EA Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022).....  | 151.29                    | 49.29                   |
| 23 09 23 53-0552 EA Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010).....   | 1,826.03                  | 308.04                  |
| 23 09 23 53-0553 EA Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010).....  | 1,759.83                  | 308.04                  |
| 23 09 23 53-0554 EA Controller UC400 XM32 Module (4 Relay) (Trane X13651563010).....  | 1,621.68                  | 308.04                  |
| 23 09 23 53-0555 EA Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010).....  | 2,826.37                  | 462.06                  |
| 23 09 23 53-0556 EA Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010).....  | 1,621.68                  | 308.04                  |
| 23 09 23 53-0557 EA Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011).....  | 1,691.75                  | 308.04                  |
| 23 09 23 53-0558 EA Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011).....  | 1,697.21                  | 308.04                  |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 23 09 23 53-0559 | EA    |     |     | Controller Optional Metal Enclosure, UC210 (Trane 501898) .....   | 647.05                 | 306.73               |
| 23 09 23 53-0560 | EA    |     |     | Controller UC400 PM014 24 Volt AC To 1.4 Amperes, 24 Volt DC (Trane X1365153801) .....                                  | 880.28                 | 306.73               |
| 23 09 23 53-0561 | EA    |     |     | Controller Tracer UC600 Controller (Trane BMUC600AAA0100011) .....  | 3,119.80               | 462.06               |
| 23 09 23 53-0562 | EA    |     |     | Controller UC600 Tracer TD7 Display (Trane X13651571010) .....  | 3,013.27               | 462.06               |
| 23 09 23 53-0563 | EA    |     |     | Controller UC600 TD7 Mounting Bracket (Trane X05010511010) .....  | 188.09                 | 61.38                |
| 23 09 23 53-0564 | EA    |     |     | Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010) .....  | 634.73                 | 61.38                |
| 23 09 23 53-0565 | EA    |     |     | SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010) .....  | 3,185.65               | 462.06               |
| 23 09 23 53-0566 | EA    |     |     | BACnet Term (2 Pack) (Trane X1365152401) .....  | 303.53                 | 110.43               |
| 23 09 23 53-0567 | EA    |     |     | Tracer ES Add License (Trane X40250125010) .....  | 3,872.37               |                      |
| 23 09 23 53-0568 | EA    |     |     | Kit - Tracer TU For Controls (Trane X4509151201) .....  | 5,663.91               | 616.08               |
| 23 09 23 53-0569 | EA    |     |     | Kit - Tracer TU Complete (Trane X4509151301) .....  | 7,286.95               | 616.08               |
| 23 09 23 53-0570 | EA    |     |     | Tracer TU Adapter Wired/Wireless (Trane X13651529010) .....   | 714.13                 | 110.43               |
| 23 09 23 53-0571 | EA    |     |     | Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010) .....  | 428.46                 | 110.43               |
| 23 09 23 53-0572 | EA    |     |     | Sensor Wireless Display Sensor ( Trane X13790822010) .....  | 478.81                 | 110.43               |
| 23 09 23 53-0573 | EA    |     |     | Sensor Wireless Receiver, 100mW (Trane X13790854010) .....  | 433.30                 | 110.43               |
| 23 09 23 53-0574 | EA    |     |     | Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010) .....   | 572.60                 | 110.43               |
| 23 09 23 53-0575 | EA    |     |     | Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010) .....  | 620.05                 | 110.43               |
| <br>             |       |     |     |   |                        |                      |
| 23 09 23 53-0576 |       |     |     | <b>Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators</b> <small>(23 09 23 53)</small>      |                        |                      |
| <br>             |       |     |     |   |                        |                      |
| 23 09 23 53-0577 |       |     |     | <b>Current Switches And Current Sensors</b> <small>(23 09 23 53-0576)</small>   |                        |                      |
| 23 09 23 53-0578 | EA    |     |     | Up To 20 Amperes, 0 To 5 Volt DC, Current Sensor (Senva C-1203) .....   | 173.57                 | 49.29                |
| 23 09 23 53-0579 | EA    |     |     | Up To 20 Amperes, 4-20mA, Current Sensor (Senva C-1205) .....   | 179.38                 | 49.29                |
| 23 09 23 53-0580 | EA    |     |     | 0.5 To 135 Amperes Range, Split Core, VFD Current Switch (Senva C-2350VFD-L) .....                                      | 264.60                 | 49.29                |
| 23 09 23 53-0581 | EA    |     |     | 0.15 To 100 Amperes Range, Split Core, Current Switch With NC Command Relay (Senva C-2300 And CR4-24) .....             | 165.82                 | 49.29                |
| 23 09 23 53-0582 | EA    |     |     | 0 To 50/100/200 Amperes (Selectable), 4-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970HCA) .....       | 462.15                 | 49.29                |
| 23 09 23 53-0583 | EA    |     |     | 0 To 20/40/80 Amperes (Selectable), 0-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970LCC) .....         | 303.08                 | 49.29                |
| 23 09 23 53-0584 | EA    |     |     | 1 To 135 Amperes, N.O. Contact, 1 Ampere At 110 Volt, Current Switch (Veris H709) .....                                 | 236.69                 | 49.29                |
| 23 09 23 53-0585 | EA    |     |     | 0 To 10/20/40 Amperes, 4-20mA Analog Output, Solid Core, Loop Powered, Current Switch (Veris H721) .....                | 236.69                 | 49.29                |
| 23 09 23 53-0586 | EA    |     |     | Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC) .....  | 5,848.10               | 246.44               |
| 23 09 23 53-0587 | EA    |     |     | 100 Amperes, Modbus RTU, Power Transducer (Veris H8035-0100-2) .....  | 1,480.33               | 49.29                |
|                  |       |     |     | Note: 3 phase networked transducer.   |                        |                      |
| 23 09 23 53-0588 | EA    |     |     | 2,400 Amperes, Three Current Switches, Pulse Output, Phase Loss Alarm Output, Energy Meter (Veris H8163-2400-4-3) ..... | 2,238.20               | 49.29                |
| 23 09 23 53-0589 | EA    |     |     | Up To 20 Amperes, 0-5 Volt DC, Current Transducer (Kele 4CTV) .....   | 252.28                 | 49.29                |
| 23 09 23 53-0590 | EA    |     |     | Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800) .....   | 403.91                 | 130.92               |
| 23 09 23 53-0591 | EA    |     |     | Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900) .....   | 404.38                 | 130.92               |
| 23 09 23 53-0592 | EA    |     |     | Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708) .....  | 427.62                 | 130.92               |
| 23 09 23 53-0593 | EA    |     |     | Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908) .....  | 433.43                 | 130.92               |
| 23 09 23 53-0594 | EA    |     |     | Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904) .....                          | 466.35                 | 130.92               |
| 23 09 23 53-0595 | EA    |     |     | Toggle Switch .....   | 168.75                 | 61.61                |
| 23 09 23 53-0596 | EA    |     |     | Maintained Pushbutton Switch .....  | 178.23                 | 61.61                |
| 23 09 23 53-0597 | EA    |     |     | Manual Time Switch .....  | 267.69                 | 61.61                |
| 23 09 23 53-0598 | EA    |     |     | Emergency Stop Switch .....   | 427.64                 | 61.61                |
| 23 09 23 53-0599 | EA    |     |     | Float Switch .....  | 442.75                 | 61.61                |
| 23 09 23 53-0600 | EA    |     |     | Break Glass Switch .....  | 1,346.16               | 61.61                |
| 23 09 23 53-0601 | EA    |     |     | Boiler E-Stop Switch .....  | 889.70                 | 61.61                |
| <br>             |       |     |     |   |                        |                      |
| 23 09 23 53-0602 |       |     |     | <b>Relays</b> <small>(23 09 23 53-0576)</small>   |                        |                      |
| 23 09 23 53-0603 | EA    |     |     | DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V) .....  | 147.42                 | 49.29                |
| 23 09 23 53-0604 | EA    |     |     | SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1) .....                                     | 159.33                 | 49.29                |
| 23 09 23 53-0605 | EA    |     |     | SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B) .....   | 221.54                 | 61.61                |
|                  |       |     |     | Note: Box type.   |                        |                      |
| 23 09 23 53-0606 | EA    |     |     | Motor Starter Interface, 300msec Pulse (Kele PIL-2) .....   | 266.18                 | 49.29                |
| 23 09 23 53-0607 | EA    |     |     | DP Relay Socket, DIN Rail Mounted (Kele SH2B-05) .....  | 138.78                 | 49.29                |
| 23 09 23 53-0608 | EA    |     |     | SP Relay Socket, DIN Rail Mounted (Kele SH1B-05) .....  | 137.04                 | 49.29                |
| 23 09 23 53-0609 | EA    |     |     | SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V) .....  | 147.42                 | 49.29                |
| 23 09 23 53-0610 | EA    |     |     | DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V) .....  | 152.86                 | 49.29                |
| 23 09 23 53-0611 | EA    |     |     | SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-ULAC24V) .....  | 154.35                 | 49.29                |
| 23 09 23 53-0612 | EA    |     |     | SPDT Pilot Relay, Universal (Kele RIBU1C) .....   | 171.35                 | 61.61                |
|                  |       |     |     | Note: Box type.   |                        |                      |
| 23 09 23 53-0613 | EA    |     |     | SPST Pilot Relay With HOA Switch (Kele RIBU1S) .....  | 219.97                 | 61.61                |
|                  |       |     |     | Note: Box type.   |                        |                      |
| 23 09 23 53-0614 | EA    |     |     | SPDT 3 Phase Line Voltage Monitor, .1-5 Minute Delay On Break Timer (ICM400) .....                                      | 369.90                 | 61.61                |
| 23 09 23 53-0615 | EA    |     |     | SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450) .....                                      | 367.75                 | 61.61                |
| <br>             |       |     |     |   |                        |                      |
| 23 09 23 53-0616 |       |     |     | <b>Transformers</b> <small>(23 09 23 53-0576)</small>   |                        |                      |
| 23 09 23 53-0617 | EA    |     |     | 50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA) .....                     | 172.29                 | 49.29                |
| 23 09 23 53-0618 | EA    |     |     | 75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB) .....                                   | 185.81                 | 49.29                |
| 23 09 23 53-0619 | EA    |     |     | 75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA) .....                     | 185.81                 | 49.29                |
| 23 09 23 53-0620 | EA    |     |     | 100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB) .....                                  | 198.05                 | 49.29                |
| 23 09 23 53-0621 | EA    |     |     | 100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA) .....                    | 205.58                 | 49.29                |
| <br>             |       |     |     |   |                        |                      |
| 23 09 23 53-0622 |       |     |     | <b>Power Supplies</b> <small>(23 09 23 53-0576)</small>   |                        |                      |
| 23 09 23 53-0623 | EA    |     |     | Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA) .....                     | 248.35                 | 49.29                |
| 23 09 23 53-0624 | EA    |     |     | AC/DC Power Supply, 1.2 Amperes At 24 Volt Output (Kele DCPA-1.2) .....   | 285.86                 | 49.29                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 09 23 53-0625 EA DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524).....   | 268.95                    | 49.29                   |
| 23 09 23 53-0626 EA DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D).....  | 276.95                    | 49.29                   |
| 23 09 23 53-0627 EA DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H).....   | 269.83                    | 49.29                   |
| 23 09 23 53-0628 EA DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P).....   | 281.76                    | 49.29                   |
| 23 09 23 53-0629 EA DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amperes (Kele DCP-1.5-W-C).....  | 216.10                    | 49.29                   |
| <b>23 09 23 53-0630 Control Damper Actuators (23 09 23 53-0576)</b>  |                           |                         |
| 23 09 23 53-0631 EA 44 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR).....    | 614.42                    | 126.90                  |
| 23 09 23 53-0632 EA 90 IN-LB, 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR)..... | 658.88                    | 126.90                  |
| 23 09 23 53-0633 EA 90 IN-LB, 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP).....                                     | 731.72                    | 126.90                  |
| 23 09 23 53-0634 EA 175 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR).....   | 766.52                    | 126.90                  |
| 23 09 23 53-0635 EA 90 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR).....        | 787.17                    | 126.90                  |
| 23 09 23 53-0636 EA 360 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR).....   | 868.38                    | 126.90                  |
| <b>23 09 43 Pneumatic Control System For HVAC (23 09)</b>  |                           |                         |
| <b>23 09 43 00-0001 Pneumatic Tubing For HVAC Instrumentation and Control Devices (23 09 43)</b>   |                           |                         |
| <b>23 09 43 00-0002 Polyurethane Pneumatic Tubing (23 09 43 00-0001)</b>   |                           |                         |
| 23 09 43 00-0003 LF 1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing.....  | 3.09                      | 1.27                    |
| 23 09 43 00-0004 LF 5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....   | 3.78                      | 1.30                    |
| 23 09 43 00-0005 LF 3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....  | 4.78                      | 1.34                    |
| 23 09 43 00-0006 LF 1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....  | 5.92                      | 1.38                    |
| <b>23 09 43 00-0007 Fire Resistant Polyethylene Pneumatic Tubing (23 09 43 00-0001)</b>  |                           |                         |
| 23 09 43 00-0008 LF 1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....   | 2.81                      | 1.27                    |
| 23 09 43 00-0009 LF 5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....  | 3.00                      | 1.30                    |
| 23 09 43 00-0010 LF 3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....   | 3.37                      | 1.34                    |
| 23 09 43 00-0011 LF 1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....   | 4.06                      | 1.38                    |
| <b>23 09 43 00-0012 Nylon Pneumatic Tubing (23 09 43 00-0001)</b>  |                           |                         |
| 23 09 43 00-0013 LF 1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing.....   | 3.21                      | 1.23                    |
| 23 09 43 00-0014 LF 1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing.....   | 4.09                      | 1.27                    |
| 23 09 43 00-0015 LF 3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing.....   | 5.93                      | 1.34                    |
| 23 09 43 00-0016 LF 1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing.....   | 7.46                      | 1.38                    |
| <b>23 09 43 00-0017 Flexible Vinyl Pneumatic Tubing (23 09 43 00-0001)</b>   |                           |                         |
| 23 09 43 00-0018 LF 1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....   | 3.16                      | 1.27                    |
| 23 09 43 00-0019 LF 3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....   | 4.82                      | 1.34                    |
| 23 09 43 00-0020 LF 1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing.....   | 5.69                      | 1.38                    |
| 23 09 43 00-0021 LF 5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....   | 6.83                      | 1.42                    |
| 23 09 43 00-0022 LF 3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....   | 7.65                      | 1.46                    |
| 23 09 43 00-0023 LF 1" Outside Diameter Flexible Vinyl Pneumatic Tubing.....   | 10.27                     | 1.50                    |
| <b>23 09 43 00-0024 Braided Vinyl Pneumatic Tubing (23 09 43 00-0001)</b>  |                           |                         |
| 23 09 43 00-0025 LF 5/8" Outside Diameter Braided Vinyl Pneumatic Tubing.....  | 4.16                      | 1.42                    |
| 23 09 43 00-0026 LF 3/4" Outside Diameter Braided Vinyl Pneumatic Tubing.....  | 4.75                      | 1.46                    |
| 23 09 43 00-0027 LF 1" Outside Diameter Braided Vinyl Pneumatic Tubing.....  | 5.80                      | 1.50                    |
| <b>23 09 43 00-0028 Copper Pneumatic Tubing (23 09 43 00-0001)</b>   |                           |                         |
| 23 09 43 00-0029 LF 1/4" Outside Diameter Copper Pneumatic Tubing.....   | 6.78                      | 2.73                    |
| 23 09 43 00-0030 LF 3/8" Outside Diameter Copper Pneumatic Tubing.....   | 8.21                      | 3.14                    |
| 23 09 43 00-0031 LF 1/2" Outside Diameter Copper Pneumatic Tubing.....   | 9.52                      | 3.62                    |
| 23 09 43 00-0032 LF 5/8" Outside Diameter Copper Pneumatic Tubing.....   | 11.67                     | 4.16                    |
| 23 09 43 00-0033 LF 3/4" Outside Diameter Copper Pneumatic Tubing.....   | 13.29                     | 4.78                    |
| <b>23 09 43 00-0034 Brass Couplings (23 09 43 00-0001)</b>   |                           |                         |
| See CSI section 22 11 16 00-0368 for copper tubing.  |                           |                         |
| <b>23 09 43 00-0035 Straight Brass Couplings (23 09 43 00-0034)</b>  |                           |                         |
| Note: Barb x Barb  |                           |                         |
| 23 09 43 00-0036 EA 1/4" x 1/4" Straight Brass Coupling.....   | 14.57                     | 6.90                    |
| 23 09 43 00-0037 EA 3/8" x 1/4" Straight Brass Coupling.....   | 14.70                     | 6.90                    |
| 23 09 43 00-0038 EA 3/8" x 3/8" Straight Brass Coupling.....   | 14.82                     | 6.90                    |
| <b>23 09 43 00-0039 Elbow Brass Couplings (23 09 43 00-0034)</b>   |                           |                         |
| Note: Barb x Barb  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 09 43 00-0040 EA 1/4" x 1/4" Elbow Brass Coupling .....  | 15.28  | 6.90                    |
| 23 09 43 00-0041 EA 3/8" x 3/8" Elbow Brass Coupling .....  | 15.72  | 6.90                    |
| <b>23 09 43 00-0042 Tee Brass Couplings (23 09 43 00-0034)</b>  |  |                         |
| Note: Barb x Barb   |  |                         |
| 23 09 43 00-0043 EA 1/4" x 1/4" x 1/4" Tee Brass Coupling .....   | 23.43  | 10.72                   |
| 23 09 43 00-0044 EA 3/8" x 3/8" x 1/4" Tee Brass Coupling .....   | 26.51  | 11.49                   |
| 23 09 43 00-0045 EA 3/8" x 3/8" x 3/8" Tee Brass Coupling .....   | 26.05  | 11.49                   |
| <b>23 10 Facility Fuel Systems (23)</b>   |  |                         |
| <b>23 11 Facility Fuel Piping (23 10)</b>   |  |                         |
| <b>23 11 23 Facility Natural-Gas Piping (23 11)</b>   |  |                         |
| See CSI section 23 21 13 23-0001 for threaded black steel pipe, 33 52 16 00-0000 for underground MDPE and HDPE pipe.                      |  |                         |
| 23 11 23 00-0001  | <b>Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)</b>                                    |                         |
| 23 11 23 00-0002  | <b>Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)</b>                              |                         |
| Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.  |  |                         |
| 23 11 23 00-0003 LF 3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 7.15   | 2.69                    |
| 23 11 23 00-0004 LF 1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 7.83   | 2.91                    |
| 23 11 23 00-0005 LF 3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 9.26   | 3.15                    |
| 23 11 23 00-0006 LF 1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 11.44  | 3.33                    |
| 23 11 23 00-0007 LF 1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 13.31  | 3.50                    |
| 23 11 23 00-0008 LF 1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 19.57  | 3.64                    |
| 23 11 23 00-0009 LF 2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....  | 26.08  | 3.88                    |
| 23 11 23 00-0010  | <b>Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)</b> |                         |
| 23 11 23 00-0011  | <b>Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>            |                         |
| 23 11 23 00-0012 EA 3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....     | 34.55  |                         |
| 23 11 23 00-0013 EA 3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....     | 34.55  |                         |
| 23 11 23 00-0014 EA 1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....     | 37.01  |                         |
| 23 11 23 00-0015 EA 1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....     | 37.01  |                         |
| 23 11 23 00-0016 EA 3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....     | 43.66  |                         |
| 23 11 23 00-0017 EA 1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....       | 58.09  |                         |
| 23 11 23 00-0018 EA 1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....         | 58.09  |                         |
| 23 11 23 00-0019 EA 1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe ..... | 94.37  |                         |
| 23 11 23 00-0020 EA 1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe ..... | 167.21   |                         |
| 23 11 23 00-0021 EA 2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....         | 266.49   |                         |
| 23 11 23 00-0022  | <b>Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>          |                         |
| 23 11 23 00-0023 EA 3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....   | 33.63  |                         |
| 23 11 23 00-0024 EA 1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....   | 37.01  |                         |
| 23 11 23 00-0025 EA 1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....   | 37.01  |                         |
| 23 11 23 00-0026 EA 3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....   | 43.66  |                         |
| 23 11 23 00-0027 EA 3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....   | 43.66  |                         |
| 23 11 23 00-0028 EA 1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....     | 55.84  |                         |
| 23 11 23 00-0029 EA 1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....       | 55.84  |                         |
| 23 11 23 00-0030  | <b>Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>        |                         |
| 23 11 23 00-0031 EA 3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe ..... | 44.21  |                         |
| 23 11 23 00-0032 EA 1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....   | 56.66  |                         |
| 23 11 23 00-0033  | <b>Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>                |                         |
| 23 11 23 00-0034 EA 3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....                                   | 44.52  |                         |
| 23 11 23 00-0035 EA 1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....                                   | 49.16  |                         |
| 23 11 23 00-0036 EA 3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....                                   | 60.56  |                         |
| 23 11 23 00-0037 EA 1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....                                     | 84.46  |                         |
| 23 11 23 00-0038 EA 1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....                                 | 152.65   |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 11 23 00-0039 EA 1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 291.61                    |                         |
| 23 11 23 00-0040 EA 2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 479.67                    |                         |
| <b>23 11 23 00-0041 Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11</b>  |                           |                         |
| <small>23 00-0010)</small>   |                           |                         |
| 23 11 23 00-0042 EA 1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 62.01                     |                         |
| 23 11 23 00-0043 EA 3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 95.26                     |                         |
| 23 11 23 00-0044 EA 1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 146.32                    |                         |
| 23 11 23 00-0045 EA 1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 245.75                    |                         |
| 23 11 23 00-0046 EA 1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 263.91                    |                         |
| 23 11 23 00-0047 EA 2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 301.96                    |                         |
| <b>23 11 23 00-0048 Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST),</b>  |                           |                         |
| <b>Flexible Gas Pipe (23 11 23 00-0010)</b>  |                           |                         |
| 23 11 23 00-0049 EA 3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....  | 40.53                     |                         |
| 23 11 23 00-0050 EA 1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....  | 42.09                     |                         |
| 23 11 23 00-0051 EA 3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....  | 45.63                     |                         |
| 23 11 23 00-0052 EA 1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....    | 59.59                     |                         |
| 23 11 23 00-0053 EA 1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....      | 60.36                     |                         |
| <b>23 11 23 00-0054 Outdoor Termination Fittings For Corrugated Stainless Steel Tubing</b>   |                           |                         |
| <b>(CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>  |                           |                         |
| 23 11 23 00-0055 EA 3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST),<br>Flexible Gas Pipe..... | 44.11                     |                         |
| 23 11 23 00-0056 EA 1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST),<br>Flexible Gas Pipe..... | 45.52                     |                         |
| 23 11 23 00-0057 EA 3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST),<br>Flexible Gas Pipe..... | 52.90                     |                         |
| 23 11 23 00-0058 EA 1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....   | 61.62                     |                         |
| 23 11 23 00-0059 EA 1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible<br>Gas Pipe.....     | 61.62                     |                         |
| <b>23 11 23 00-0060 Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel</b>  |                           |                         |
| <b>Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>   |                           |                         |
| 23 11 23 00-0061 EA 3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                 | 75.10                     |                         |
| 23 11 23 00-0062 EA 1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                 | 77.00                     |                         |
| 23 11 23 00-0063 EA 3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                 | 80.40                     |                         |
| 23 11 23 00-0064 EA 1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                   | 119.24                    |                         |
| 23 11 23 00-0065 EA 1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....            | 123.56                    |                         |
| 23 11 23 00-0066 EA 1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....            | 171.56                    |                         |
| 23 11 23 00-0067 EA 2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                   | 209.77                    |                         |
| <b>23 11 23 00-0068 Outdoor Floor Flange Termination Assembly For Corrugated Stainless</b>   |                           |                         |
| <b>Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>   |                           |                         |
| 23 11 23 00-0069 EA 3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....             | 78.56                     |                         |
| 23 11 23 00-0070 EA 1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....             | 80.40                     |                         |
| 23 11 23 00-0071 EA 3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....             | 87.54                     |                         |
| 23 11 23 00-0072 EA 1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                  | 146.52                    |                         |
| 23 11 23 00-0073 EA 1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....           | 151.07                    |                         |
| 23 11 23 00-0074 EA 1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas<br>Pipe.....           | 202.23                    |                         |
| 23 11 23 00-0075 EA 2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                  | 251.33                    |                         |
| <b>23 11 23 00-0076 Indoor Bracket Termination Assembly For Corrugated Stainless Steel</b>   |                           |                         |
| <b>Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>   |                           |                         |
| 23 11 23 00-0077 EA 1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                      | 43.70                     |                         |
| 23 11 23 00-0078 EA 3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                      | 47.02                     |                         |
| 23 11 23 00-0079 EA 1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                        | 68.24                     |                         |
| 23 11 23 00-0080 EA 1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                    | 101.46                    |                         |
| 23 11 23 00-0081 EA 1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                    | 190.25                    |                         |
| 23 11 23 00-0082 EA 2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                        | 298.52                    |                         |



|                         | MINOR<br>CSI UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------|---|---------------------------|-------------------------|
| <b>23 11 23 00-0083</b> |                  | <b>Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>  |                           |                         |
|                         |                  | Note: Includes mounting plate.  |                           |                         |
|                         | 23 11 23 00-0084 | EA 1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 37.87                     |                         |
|                         | 23 11 23 00-0085 | EA 3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 41.12                     |                         |
|                         | 23 11 23 00-0086 | EA 1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 37.90                     |                         |
|                         | 23 11 23 00-0087 | EA 1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 38.01                     |                         |
|                         | 23 11 23 00-0088 | EA 3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 39.73                     |                         |
|                         | 23 11 23 00-0089 | EA 1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 46.45                     |                         |
|                         | 23 11 23 00-0090 | EA 1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 54.93                     |                         |
| <b>23 11 23 00-0091</b> |                  | <b>Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>                         |                           |                         |
|                         |                  | Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.  |                           |                         |
|                         | 23 11 23 00-0092 | EA 1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                            | 105.12                    | 28.20                   |
|                         | 23 11 23 00-0093 | EA 3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                            | 117.63                    | 29.60                   |
| <b>23 11 23 00-0094</b> |                  | <b>Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>                                    |                           |                         |
|                         | 23 11 23 00-0095 | EA 3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                                       | 77.63                     | 24.67                   |
|                         | 23 11 23 00-0096 | EA 1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                                       | 90.66                     | 29.32                   |
|                         | 23 11 23 00-0097 | EA 3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....                                       | 110.84                    | 35.25                   |
|                         | 23 11 23 00-0098 | EA 1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 140.12                    | 47.09                   |
| <b>23 11 23 00-0099</b> |                  | <b>Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>  |                           |                         |
|                         |                  | Note: Includes mounting hardware.   |                           |                         |
|                         | 23 11 23 00-0100 | EA 1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 94.88                     | 29.32                   |
|                         | 23 11 23 00-0101 | EA 3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 108.63                    | 35.25                   |
|                         | 23 11 23 00-0102 | EA 1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 100.59                    | 29.32                   |
|                         | 23 11 23 00-0103 | EA 3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....   | 112.33                    | 35.25                   |
|                         | 23 11 23 00-0104 | EA 2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 224.64                    | 88.11                   |
| <b>23 11 23 00-0105</b> |                  | <b>Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>                                |                           |                         |
|                         | 23 11 23 00-0106 | EA 1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 99.50                     | 29.32                   |
|                         | 23 11 23 00-0107 | EA 1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 99.50                     | 29.32                   |
|                         | 23 11 23 00-0108 | EA 1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 133.65                    | 29.32                   |
|                         | 23 11 23 00-0109 | EA 3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 145.39                    | 35.25                   |
|                         | 23 11 23 00-0110 | EA 3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 145.39                    | 35.25                   |
|                         | 23 11 23 00-0111 | EA 1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 168.89                    | 47.09                   |
|                         | 23 11 23 00-0112 | EA 1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....  | 243.90                    | 52.86                   |
|                         | 23 11 23 00-0113 | EA 1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....         | 127.61                    | 29.32                   |
|                         | 23 11 23 00-0114 | EA 3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....         | 300.03                    | 35.25                   |
|                         | 23 11 23 00-0115 | EA 1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....       | 713.25                    | 52.86                   |
| <b>23 11 23 00-0116</b> |                  | <b>Polymer Coated Stainless Steel, Flexible Gas Appliance Connectors (Brass Craft)</b> <small>(23 11 23)</small>  |                           |                         |
| <b>23 11 23 00-0117</b> |                  | <b>3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small> |                           |                         |
|                         | 23 11 23 00-0118 | EA 12" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-12).....            | 57.61                     | 21.15                   |
|                         | 23 11 23 00-0119 | EA 18" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-18).....            | 62.70                     | 22.56                   |
|                         | 23 11 23 00-0120 | EA 24" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-24).....            | 67.59                     | 22.56                   |
|                         | 23 11 23 00-0121 | EA 30" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-30).....            | 70.79                     | 23.96                   |
|                         | 23 11 23 00-0122 | EA 36" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-36).....            | 74.76                     | 23.96                   |
|                         | 23 11 23 00-0123 | EA 48" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-48).....            | 83.37                     | 25.38                   |
|                         | 23 11 23 00-0124 | EA 60" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-60).....            | 91.21                     | 25.38                   |
|                         | 23 11 23 00-0125 | EA 72" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-72).....            | 98.97                     | 26.79                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 23 11 23 00-0126 |     | <b>3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel,<br/>Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b> |                           |                         |
| 23 11 23 00-0127 | EA  | 12" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-12).....    | 57.61                     | 21.15                   |
| 23 11 23 00-0128 | EA  | 18" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-18).....    | 62.70                     | 22.56                   |
| 23 11 23 00-0129 | EA  | 24" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-24).....    | 67.59                     | 22.56                   |
| 23 11 23 00-0130 | EA  | 30" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-30).....    | 70.79                     | 23.96                   |
| 23 11 23 00-0131 | EA  | 36" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-36).....    | 74.76                     | 23.96                   |
| 23 11 23 00-0132 | EA  | 48" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-48).....    | 83.37                     | 25.38                   |
| 23 11 23 00-0133 | EA  | 60" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-60).....    | 91.21                     | 25.38                   |
| 23 11 23 00-0134 | EA  | 72" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-72).....    | 98.97                     | 26.79                   |
| 23 11 23 00-0135 |     | <b>3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel,<br/>Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b> |                           |                         |
| 23 11 23 00-0136 | EA  | 12" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-12).....    | 57.61                     | 21.15                   |
| 23 11 23 00-0137 | EA  | 18" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-18).....    | 62.70                     | 22.56                   |
| 23 11 23 00-0138 | EA  | 24" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-24).....    | 67.59                     | 22.56                   |
| 23 11 23 00-0139 | EA  | 30" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-30).....    | 70.79                     | 23.96                   |
| 23 11 23 00-0140 | EA  | 36" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-36).....    | 74.76                     | 23.96                   |
| 23 11 23 00-0141 | EA  | 48" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-48).....    | 83.37                     | 25.38                   |
| 23 11 23 00-0142 | EA  | 60" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-60).....    | 91.21                     | 25.38                   |
| 23 11 23 00-0143 | EA  | 72" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-72).....    | 98.97                     | 26.79                   |
| 23 11 23 00-0144 |     | <b>3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel,<br/>Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b> |                           |                         |
| 23 11 23 00-0145 | EA  | 12" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-12).....    | 57.61                     | 21.15                   |
| 23 11 23 00-0146 | EA  | 18" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-18).....    | 62.70                     | 22.56                   |
| 23 11 23 00-0147 | EA  | 24" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-24).....    | 79.23                     | 22.56                   |
| 23 11 23 00-0148 | EA  | 30" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-30).....    | 70.79                     | 23.96                   |
| 23 11 23 00-0149 | EA  | 36" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-36).....    | 74.76                     | 23.96                   |
| 23 11 23 00-0150 | EA  | 48" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-48).....    | 83.37                     | 25.38                   |
| 23 11 23 00-0151 | EA  | 60" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-60).....    | 91.21                     | 25.38                   |
| 23 11 23 00-0152 | EA  | 72" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-72).....    | 98.97                     | 26.79                   |
| 23 11 23 00-0153 |     | <b>3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel,<br/>Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b> |                           |                         |
| 23 11 23 00-0154 | EA  | 12" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-12).....    | 62.10                     | 21.15                   |
| 23 11 23 00-0155 | EA  | 18" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-18).....    | 68.28                     | 22.56                   |
| 23 11 23 00-0156 | EA  | 24" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-24).....    | 67.59                     | 22.56                   |
| 23 11 23 00-0157 | EA  | 30" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-30).....    | 77.90                     | 23.96                   |
| 23 11 23 00-0158 | EA  | 36" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-36).....    | 74.76                     | 23.96                   |
| 23 11 23 00-0159 | EA  | 48" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-48).....    | 83.37                     | 25.38                   |
| 23 11 23 00-0160 | EA  | 60" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-60).....    | 91.21                     | 25.38                   |
| 23 11 23 00-0161 | EA  | 72" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-72).....    | 98.97                     | 26.79                   |



|                  |    |  |  | MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|----|--|--|---|---------------------------|-------------------------|
| 23 11 23 00-0162 |    |  |  | <b>3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small> |                           |                         |
| 23 11 23 00-0163 | EA |  |  | 12" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-12).....               | 57.61                     | 21.15                   |
| 23 11 23 00-0164 | EA |  |  | 24" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-24).....               | 74.18                     | 22.56                   |
| 23 11 23 00-0165 | EA |  |  | 30" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-30).....               | 70.79                     | 23.96                   |
| 23 11 23 00-0166 | EA |  |  | 36" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-36).....               | 74.76                     | 23.96                   |
| 23 11 23 00-0167 | EA |  |  | 48" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-48).....               | 83.37                     | 25.38                   |
| 23 11 23 00-0168 | EA |  |  | 60" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-60).....               | 103.07                    | 25.38                   |
| 23 11 23 00-0169 | EA |  |  | 72" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-72).....               | 98.97                     | 26.79                   |
| 23 11 23 00-0170 |    |  |  | <b>3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>       |                           |                         |
| 23 11 23 00-0171 | EA |  |  | 12" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-12).....                     | 57.61                     | 21.15                   |
| 23 11 23 00-0172 | EA |  |  | 18" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-18).....                     | 62.70                     | 22.56                   |
| 23 11 23 00-0173 | EA |  |  | 24" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-24).....                     | 67.59                     | 22.56                   |
| 23 11 23 00-0174 | EA |  |  | 30" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-30).....                     | 70.79                     | 23.96                   |
| 23 11 23 00-0175 | EA |  |  | 36" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-36).....                     | 74.76                     | 23.96                   |
| 23 11 23 00-0176 | EA |  |  | 48" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-48).....                     | 83.37                     | 25.38                   |
| 23 11 23 00-0177 | EA |  |  | 60" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-60).....                     | 91.21                     | 25.38                   |
| 23 11 23 00-0178 | EA |  |  | 72" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-72).....                     | 98.97                     | 26.79                   |
| 23 11 23 00-0179 |    |  |  | <b>3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>       |                           |                         |
| 23 11 23 00-0180 | EA |  |  | 12" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-12).....                     | 57.61                     | 21.15                   |
| 23 11 23 00-0181 | EA |  |  | 18" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-18).....                     | 62.70                     | 22.56                   |
| 23 11 23 00-0182 | EA |  |  | 24" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-24).....                     | 67.59                     | 22.56                   |
| 23 11 23 00-0183 | EA |  |  | 30" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-30).....                     | 70.79                     | 23.96                   |
| 23 11 23 00-0184 | EA |  |  | 36" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-36).....                     | 74.76                     | 23.96                   |
| 23 11 23 00-0185 | EA |  |  | 48" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-48).....                     | 83.37                     | 25.38                   |
| 23 11 23 00-0186 | EA |  |  | 60" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-60).....                     | 91.21                     | 25.38                   |
| 23 11 23 00-0187 | EA |  |  | 72" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-72).....                     | 98.97                     | 26.79                   |
| 23 11 23 00-0188 |    |  |  | <b>3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small> |                           |                         |
| 23 11 23 00-0189 | EA |  |  | 18" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-18).....               | 68.28                     | 22.56                   |
| 23 11 23 00-0190 | EA |  |  | 24" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-24).....               | 67.59                     | 22.56                   |
| 23 11 23 00-0191 | EA |  |  | 30" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-30).....               | 77.90                     | 23.96                   |
| 23 11 23 00-0192 | EA |  |  | 36" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-36).....               | 82.63                     | 23.96                   |
| 23 11 23 00-0193 | EA |  |  | 48" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-48).....               | 93.35                     | 25.38                   |
| 23 11 23 00-0194 |    |  |  | <b>1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>       |                           |                         |
| 23 11 23 00-0195 | EA |  |  | 12" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-12).....                     | 57.61                     | 21.15                   |
| 23 11 23 00-0196 | EA |  |  | 18" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-18).....                     | 62.70                     | 22.56                   |
| 23 11 23 00-0197 | EA |  |  | 24" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-24).....                     | 62.94                     | 22.56                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 11 23 00-0198 EA 30" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-30).....            | 70.79                     | 23.96                   |
| 23 11 23 00-0199 EA 36" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-36).....            | 69.19                     | 23.96                   |
| 23 11 23 00-0200 EA 48" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-48).....            | 85.07                     | 25.38                   |
| 23 11 23 00-0201 EA 60" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-60).....            | 91.21                     | 25.38                   |
| 23 11 23 00-0202 EA 72" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-72).....            | 98.97                     | 26.79                   |
| <b>23 11 23 00-0203 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>                |                           |                         |
| 23 11 23 00-0204 EA 12" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-12).....            | 57.61                     | 21.15                   |
| 23 11 23 00-0205 EA 18" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-18).....            | 58.91                     | 22.56                   |
| 23 11 23 00-0206 EA 24" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-24).....            | 60.37                     | 22.56                   |
| 23 11 23 00-0207 EA 30" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-30).....            | 70.79                     | 23.96                   |
| 23 11 23 00-0208 EA 36" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-36).....            | 74.76                     | 23.96                   |
| 23 11 23 00-0209 EA 48" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-48).....            | 76.10                     | 25.38                   |
| 23 11 23 00-0210 EA 60" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-60).....            | 91.21                     | 25.38                   |
| 23 11 23 00-0211 EA 72" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-72).....            | 98.97                     | 26.79                   |
| <b>23 11 23 00-0212 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>                |                           |                         |
| 23 11 23 00-0213 EA 12" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-12).....            | 57.61                     | 21.15                   |
| 23 11 23 00-0214 EA 18" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-18).....            | 62.70                     | 22.56                   |
| 23 11 23 00-0215 EA 24" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-24).....            | 67.59                     | 22.56                   |
| 23 11 23 00-0216 EA 30" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-30).....            | 70.79                     | 23.96                   |
| 23 11 23 00-0217 EA 36" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-36).....            | 65.32                     | 23.96                   |
| 23 11 23 00-0218 EA 48" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-48).....            | 83.37                     | 25.38                   |
| 23 11 23 00-0219 EA 60" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-60).....            | 91.21                     | 25.38                   |
| 23 11 23 00-0220 EA 72" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-72).....            | 98.97                     | 26.79                   |
| <b>23 11 23 00-0221 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>                |                           |                         |
| 23 11 23 00-0222 EA 12" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-12).....            | 73.59                     | 21.15                   |
| 23 11 23 00-0223 EA 18" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-18).....            | 78.65                     | 22.56                   |
| 23 11 23 00-0224 EA 24" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-24).....            | 83.54                     | 22.56                   |
| 23 11 23 00-0225 EA 30" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-30).....            | 86.71                     | 23.96                   |
| 23 11 23 00-0226 EA 36" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-36).....            | 90.84                     | 23.96                   |
| 23 11 23 00-0227 EA 48" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-48).....            | 98.95                     | 25.38                   |
| 23 11 23 00-0228 EA 60" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-60).....            | 107.43                    | 25.38                   |
| 23 11 23 00-0229 EA 72" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-72).....            | 115.21                    | 26.79                   |
| <b>23 11 23 00-0230 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>     |                           |                         |
| 23 11 23 00-0231 EA 12" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-12)..... | 87.69                     | 28.20                   |
| 23 11 23 00-0232 EA 18" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-18)..... | 92.75                     | 29.60                   |
| 23 11 23 00-0233 EA 24" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-24)..... | 97.64                     | 29.60                   |
| 23 11 23 00-0234 EA 30" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-30)..... | 100.81                    | 31.01                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 11 23 00-0235 EA 36" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-36).....                  | 104.93                    | 31.01                   |
| 23 11 23 00-0236 EA 48" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-48).....                  | 113.05                    | 32.43                   |
| 23 11 23 00-0237 EA 60" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-60).....                  | 121.53                    | 32.43                   |
| 23 11 23 00-0238 EA 72" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-72).....                  | 129.31                    | 33.84                   |
| <b>23 11 23 00-0239 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>       |                           |                         |
| 23 11 23 00-0240 EA 12" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....                  | 87.69                     | 28.20                   |
| 23 11 23 00-0241 EA 18" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....                  | 92.75                     | 29.60                   |
| 23 11 23 00-0242 EA 24" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....                  | 97.64                     | 29.60                   |
| 23 11 23 00-0243 EA 30" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....                  | 100.81                    | 31.01                   |
| 23 11 23 00-0244 EA 36" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....                  | 104.93                    | 31.01                   |
| 23 11 23 00-0245 EA 48" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....                  | 113.05                    | 32.43                   |
| 23 11 23 00-0246 EA 60" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....                  | 121.53                    | 32.43                   |
| 23 11 23 00-0247 EA 72" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-72).....                  | 129.31                    | 33.84                   |
| <b>23 11 23 00-0248 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b> |                           |                         |
| 23 11 23 00-0249 EA 12" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....            | 100.68                    | 28.20                   |
| 23 11 23 00-0250 EA 18" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....            | 105.74                    | 29.60                   |
| 23 11 23 00-0251 EA 24" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....            | 110.63                    | 29.60                   |
| 23 11 23 00-0252 EA 30" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....            | 113.80                    | 31.01                   |
| 23 11 23 00-0253 EA 36" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....            | 117.94                    | 31.01                   |
| 23 11 23 00-0254 EA 48" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....            | 126.04                    | 32.43                   |
| 23 11 23 00-0255 EA 60" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....            | 134.53                    | 32.43                   |
| <b>23 11 23 00-0256 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b> |                           |                         |
| 23 11 23 00-0257 EA 12" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-12).....            | 100.68                    | 28.20                   |
| 23 11 23 00-0258 EA 18" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-18).....            | 105.74                    | 29.60                   |
| 23 11 23 00-0259 EA 24" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-24).....            | 110.63                    | 29.60                   |
| 23 11 23 00-0260 EA 36" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-36).....            | 117.94                    | 31.01                   |
| 23 11 23 00-0261 EA 48" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-48).....            | 126.04                    | 32.43                   |
| 23 11 23 00-0262 EA 60" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-60).....            | 134.53                    | 32.43                   |
| <b>23 11 23 00-0263 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b> |                           |                         |
| 23 11 23 00-0264 EA 12" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-12).....            | 100.68                    | 28.20                   |
| 23 11 23 00-0265 EA 18" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-18).....            | 105.74                    | 29.60                   |
| 23 11 23 00-0266 EA 24" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-24).....            | 110.63                    | 29.60                   |
| 23 11 23 00-0267 EA 30" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-30).....            | 113.80                    | 31.01                   |
| 23 11 23 00-0268 EA 36" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-36).....            | 117.94                    | 31.01                   |
| 23 11 23 00-0269 EA 48" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-48).....            | 126.04                    | 32.43                   |
| 23 11 23 00-0270 EA 60" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-60).....            | 134.53                    | 32.43                   |
| 23 11 23 00-0271 EA 72" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-72).....            | 142.30                    | 33.84                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 11 23 00-0272 |     |     | <b>1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small> |                        |                      |
| 23 11 23 00-0273 | EA  |     | 12" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-12).....               | 84.27                  | 28.20                |
| 23 11 23 00-0274 | EA  |     | 18" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-18).....               | 89.35                  | 29.60                |
| 23 11 23 00-0275 | EA  |     | 24" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-24).....               | 94.26                  | 29.60                |
| 23 11 23 00-0276 | EA  |     | 30" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-30).....               | 97.40                  | 31.01                |
| 23 11 23 00-0277 | EA  |     | 36" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-36).....               | 101.52                 | 31.01                |
| 23 11 23 00-0278 | EA  |     | 48" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-48).....               | 109.62                 | 32.43                |
| 23 11 23 00-0279 | EA  |     | 72" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-72).....               | 125.85                 | 33.84                |
| 23 11 23 00-0280 |     |     | <b>1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small> |                        |                      |
| 23 11 23 00-0281 | EA  |     | 18" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-18).....               | 98.59                  | 29.60                |
| 23 11 23 00-0282 | EA  |     | 24" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-24).....               | 104.52                 | 29.60                |
| 23 11 23 00-0283 |     |     | <b>Quarter-Turn, Gas Ball Valve</b> <small>(23 11 23)</small>  |                        |                      |
| 23 11 23 00-0284 | EA  |     | 3/8" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top™ T-3000 102-102).....   | 54.13                  | 15.01                |
| 23 11 23 00-0285 | EA  |     | 1/2" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-103).....  | 54.93                  | 15.31                |
| 23 11 23 00-0286 | EA  |     | 3/4" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-104).....  | 78.10                  | 16.85                |
| 23 11 23 00-0287 | EA  |     | 3/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-112).....   | 53.74                  | 15.01                |
| 23 11 23 00-0288 | EA  |     | 1/2" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-113).....   | 56.80                  | 15.31                |
| 23 11 23 00-0289 | EA  |     | 1/2" Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-118).....   | 62.30                  | 15.31                |
| 23 11 23 00-0290 | EA  |     | 5/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-121).....   | 68.50                  | 16.08                |
| 23 11 23 00-0291 | EA  |     | 5/8" (7/8" -14) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-114).....  | 71.30                  | 16.08                |
| 23 11 23 00-0292 | EA  |     | 5/8" (15/16" -16) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-115).....  | 71.30                  | 16.08                |
| 23 11 23 00-0293 | EA  |     | 3/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-312).....  | 55.83                  | 15.01                |
| 23 11 23 00-0294 | EA  |     | 1/2" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-313).....  | 58.89                  | 15.31                |
| 23 11 23 00-0295 | EA  |     | 5/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-314).....  | 72.77                  | 16.08                |
| 23 11 23 00-0296 | EA  |     | 1/2" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-413).....   | 59.17                  | 15.31                |
| 23 11 23 00-0297 | EA  |     | 3/4" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-414).....   | 79.68                  | 16.85                |
| 23 11 23 00-0298 | EA  |     | 3/8" (9/16" -24) Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-119).....   | 55.72                  | 15.01                |
| 23 11 23 00-0299 | EA  |     | 3/8" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-612).....   | 53.46                  | 15.01                |
| 23 11 23 00-0300 | EA  |     | 1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-613).....   | 54.92                  | 15.31                |
| 23 11 23 00-0301 | EA  |     | 3/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-614).....   | 75.08                  | 16.85                |
| 23 11 23 00-0302 | EA  |     | 1" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-615).....   | 100.20                 | 19.14                |
| 23 11 23 00-0303 | EA  |     | 1-1/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-616).....   | 140.79                 | 19.90                |
| 23 11 23 00-0304 | EA  |     | 1-1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-617).....   | 166.49                 | 22.97                |
| 23 11 23 00-0305 | EA  |     | 2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-618).....   | 204.25                 | 27.56                |
| 23 11 23 00-0306 | EA  |     | 1/2" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-713).....   | 56.13                  | 15.31                |
| 23 11 23 00-0307 | EA  |     | 3/4" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-714).....   | 74.71                  | 16.85                |
| 23 11 23 00-0308 |     |     | <b>Gas Stops</b> <small>(23 11 23)</small>   |                        |                      |
| 23 11 23 00-0309 |     |     | <b>Brass/Bronze Gas Stops</b> <small>(23 11 23 00-0308)</small>  |                        |                      |
|                  |     |     | Note: Flat or square head  |                        |                      |
| 23 11 23 00-0310 | EA  |     | 3/8" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 65.02                  | 15.31                |
| 23 11 23 00-0311 | EA  |     | 1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 65.59                  | 15.31                |
| 23 11 23 00-0312 | EA  |     | 3/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 86.44                  | 16.85                |
| 23 11 23 00-0313 | EA  |     | 1" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 118.86                 | 19.14                |
| 23 11 23 00-0314 | EA  |     | 1-1/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 157.07                 | 20.37                |
| 23 11 23 00-0315 | EA  |     | 1-1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 195.67                 | 23.58                |
| 23 11 23 00-0316 | EA  |     | 2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....  | 266.40                 | 27.87                |
| 23 11 23 00-0317 |     |     | <b>Iron Body Gas Stops</b> <small>(23 11 23 00-0308)</small>   |                        |                      |
| 23 11 23 00-0318 | EA  |     | 1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 84.86                  | 15.31                |
| 23 11 23 00-0319 | EA  |     | 3/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 105.41                 | 16.85                |
| 23 11 23 00-0320 | EA  |     | 1" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 130.30                 | 19.14                |
| 23 11 23 00-0321 | EA  |     | 1-1/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 168.18                 | 20.37                |
| 23 11 23 00-0322 | EA  |     | 1-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 209.62                 | 23.58                |
| 23 11 23 00-0323 | EA  |     | 2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 269.57                 | 27.87                |
| 23 11 23 00-0324 | EA  |     | 2-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....  | 506.07                 | 37.64                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 11 23 00-0325 EA 3" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....   | 671.94                    | 43.70                   |
| <b>23 11 23 00-0326 Bronze Body Solenoid Valves, 150 PSI Gas (23 11 23)</b>   |                           |                         |
| 23 11 23 00-0327 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 200.45                    | 15.31                   |
| 23 11 23 00-0328 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 233.17                    | 15.31                   |
| 23 11 23 00-0329 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 297.67                    | 16.85                   |
| 23 11 23 00-0330 EA 1" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 442.57                    | 19.14                   |
| 23 11 23 00-0331 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 786.04                    | 23.58                   |
| 23 11 23 00-0332 EA 2" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 1,325.24                  | 27.87                   |
| 23 11 23 00-0333 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 1,644.97                  | 37.64                   |
| 23 11 23 00-0334 EA 3" Solenoid Valve, Bronze, 150 PSI, Gas.....  | 2,465.02                  | 43.70                   |
| <b>23 11 26 Facility Liquefied-Petroleum Gas Piping (23 11)</b>   |                           |                         |
| <b>23 11 26 00-0001 Fiberglass Reinforced Plastic Pipe And Fittings (23 11 26)</b>  |                           |                         |
| <b>23 11 26 00-0002 Fiberglass Reinforced Plastic Pipe (23 11 26 00-0001)</b>   |                           |                         |
| Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (add modifier for use as inner pipe). |                           |                         |
| 23 11 26 00-0003 LF 2" Fiberglass Reinforced Plastic Pipe.....  | 24.88                     | 10.15                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -11.37                    |                         |
| 23 11 26 00-0004 LF 3" Fiberglass Reinforced Plastic Pipe.....  | 29.81                     | 12.13                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -13.64                    |                         |
| 23 11 26 00-0005 LF 4" Fiberglass Reinforced Plastic Pipe.....  | 40.15                     | 17.91                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -20.09                    |                         |
| 23 11 26 00-0006 LF 5" Fiberglass Reinforced Plastic Pipe.....  | 46.83                     | 20.58                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -22.63                    |                         |
| 23 11 26 00-0007 LF 6" Fiberglass Reinforced Plastic Pipe.....  | 54.47                     | 22.98                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -25.89                    |                         |
| 23 11 26 00-0008 LF 8" Fiberglass Reinforced Plastic Pipe.....  | 69.53                     | 25.11                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -28.21                    |                         |
| 23 11 26 00-0009 LF 10" Fiberglass Reinforced Plastic Pipe.....   | 91.42                     | 29.85                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -33.63                    |                         |
| 23 11 26 00-0010 LF 12" Fiberglass Reinforced Plastic Pipe.....   | 251.64                    | 37.60                   |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -42.31                    |                         |
| <b>23 11 26 00-0011 Fiberglass Reinforced Plastic Fittings (23 11 26 00-0001)</b>   |                           |                         |
| <b>23 11 26 00-0012 Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 26 00-0011)</b>   |                           |                         |
| 23 11 26 00-0013 EA 2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....   | 199.91                    | 101.08                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -113.69                   |                         |
| 23 11 26 00-0014 EA 3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....   | 236.67                    | 121.38                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -136.43                   |                         |
| 23 11 26 00-0015 EA 4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....   | 281.76                    | 140.98                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -158.50                   |                         |
| 23 11 26 00-0016 EA 5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....   | 320.87                    | 148.52                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -163.84                   |                         |
| 23 11 26 00-0017 EA 6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....   | 384.21                    | 166.63                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -187.37                   |                         |
| 23 11 26 00-0018 EA 8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....   | 542.20                    | 208.23                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -234.21                   |                         |
| 23 11 26 00-0019 EA 10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....  | 692.17                    | 250.83                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -282.06                   |                         |
| 23 11 26 00-0020 EA 12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....  | 1,858.86                  | 311.04                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -349.76                   |                         |
| <b>23 11 26 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 26 00-0011)</b>   |                           |                         |
| 23 11 26 00-0022 EA 2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....   | 200.28                    | 101.08                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -113.69                   |                         |
| 23 11 26 00-0023 EA 3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....   | 236.78                    | 121.38                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -136.43                   |                         |
| 23 11 26 00-0024 EA 4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....   | 282.14                    | 141.12                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -158.61                   |                         |
| 23 11 26 00-0025 EA 5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....   | 349.16                    | 167.63                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -185.03                   |                         |
| 23 11 26 00-0026 EA 6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....   | 384.08                    | 166.63                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -187.37                   |                         |
| 23 11 26 00-0027 EA 8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....   | 542.20                    | 208.23                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -234.21                   |                         |
| 23 11 26 00-0028 EA 10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....  | 1,407.06                  | 250.83                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -282.06                   |                         |
| 23 11 26 00-0029 EA 12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....  | 1,858.86                  | 311.04                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -349.76                   |                         |
| <b>23 11 26 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 26 00-0011)</b>   |                           |                         |
| 23 11 26 00-0031 EA 2" Fiberglass Reinforced Plastic Flanged Tee.....   | 441.71                    | 151.69                  |
| For Use As Inner Pipe In Double Wall Pipe System, Deduct  | -170.54                   |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 11 26 00-0032 EA 3" Fiberglass Reinforced Plastic Flanged Tee .....                                  | 546.56                    | 182.71                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -205.40                   |                         |
| 23 11 26 00-0033 EA 4" Fiberglass Reinforced Plastic Flanged Tee .....                                  | 621.94                    | 211.61                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -237.93                   |                         |
| 23 11 26 00-0034 EA 5" Fiberglass Reinforced Plastic Flanged Tee .....                                  | 789.89                    | 251.37                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -277.67                   |                         |
| 23 11 26 00-0035 EA 6" Fiberglass Reinforced Plastic Flanged Tee .....                                  | 910.61                    | 250.83                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -282.06                   |                         |
| 23 11 26 00-0036 EA 8" Fiberglass Reinforced Plastic Flanged Tee .....                                  | 1,146.19                  | 311.04                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -349.76                   |                         |
| 23 11 26 00-0037 EA 10" Fiberglass Reinforced Plastic Flanged Tee .....                                 | 1,853.27                  | 376.25                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -423.10                   |                         |
| 23 11 26 00-0038 EA 12" Fiberglass Reinforced Plastic Flanged Tee .....                                 | 2,484.41                  | 457.44                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -514.36                   |                         |
| <b>23 11 26 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 26 00-0011)</b>                   |                           |                         |
| 23 11 26 00-0040 EA 2" Fiberglass Reinforced Plastic Flanged Wye .....                                  | 586.77                    | 151.69                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -170.54                   |                         |
| 23 11 26 00-0041 EA 3" Fiberglass Reinforced Plastic Flanged Wye .....                                  | 753.85                    | 182.43                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -205.14                   |                         |
| 23 11 26 00-0042 EA 4" Fiberglass Reinforced Plastic Flanged Wye .....                                  | 885.65                    | 211.61                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -237.91                   |                         |
| 23 11 26 00-0043 EA 5" Fiberglass Reinforced Plastic Flanged Wye .....                                  | 1,014.44                  | 251.37                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -277.67                   |                         |
| 23 11 26 00-0044 EA 6" Fiberglass Reinforced Plastic Flanged Wye .....                                  | 1,096.04                  | 250.83                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -282.06                   |                         |
| 23 11 26 00-0045 EA 8" Fiberglass Reinforced Plastic Flanged Wye .....                                  | 1,439.43                  | 311.04                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -349.76                   |                         |
| 23 11 26 00-0046 EA 10" Fiberglass Reinforced Plastic Flanged Wye .....                                 | 2,223.13                  | 376.25                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -423.10                   |                         |
| 23 11 26 00-0047 EA 12" Fiberglass Reinforced Plastic Flanged Wye .....                                 | 2,887.59                  | 457.44                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -514.36                   |                         |
| <b>23 11 26 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 26 00-0011)</b>    |                           |                         |
| 23 11 26 00-0049 EA 2" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                   | 333.19                    | 101.08                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -113.69                   |                         |
| 23 11 26 00-0050 EA 3" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                   | 432.28                    | 121.38                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -136.43                   |                         |
| 23 11 26 00-0051 EA 4" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                   | 473.67                    | 141.12                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -158.61                   |                         |
| 23 11 26 00-0052 EA 5" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                   | 549.71                    | 167.63                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -185.03                   |                         |
| 23 11 26 00-0053 EA 6" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                   | 593.57                    | 166.63                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -187.37                   |                         |
| 23 11 26 00-0054 EA 8" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                   | 791.42                    | 208.23                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -234.21                   |                         |
| 23 11 26 00-0055 EA 10" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                  | 1,013.89                  | 250.83                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -282.06                   |                         |
| 23 11 26 00-0056 EA 12" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....                  | 1,390.35                  | 311.04                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -349.76                   |                         |
| <b>23 11 26 00-0057 Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 26 00-0011)</b> |                           |                         |
| 23 11 26 00-0058 EA 2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....                | 268.36                    | 101.08                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -113.69                   |                         |
| 23 11 26 00-0059 EA 3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....                | 308.47                    | 121.38                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -136.43                   |                         |
| 23 11 26 00-0060 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....                | 349.98                    | 141.12                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -158.61                   |                         |
| 23 11 26 00-0061 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....                | 428.55                    | 167.63                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -185.03                   |                         |
| 23 11 26 00-0062 EA 6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....                | 475.01                    | 166.63                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -187.37                   |                         |
| 23 11 26 00-0063 EA 8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....                | 464.75                    | 208.23                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -234.21                   |                         |
| 23 11 26 00-0064 EA 10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....               | 595.17                    | 250.83                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -282.06                   |                         |
| 23 11 26 00-0065 EA 12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....               | 942.74                    | 311.04                  |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -349.76                   |                         |
| <b>23 11 26 00-0066 Fiberglass Reinforced Plastic Nipples (23 11 26 00-0011)</b>                        |                           |                         |
| 23 11 26 00-0067 EA 2" x 6" Fiberglass Reinforced Plastic Nipple .....                                  | 50.43                     | 12.13                   |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -13.64                    |                         |
| 23 11 26 00-0068 EA 2" x 12" Fiberglass Reinforced Plastic Nipple .....                                 | 100.76                    | 24.24                   |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -27.22                    |                         |
| 23 11 26 00-0069 EA 3" x 8" Fiberglass Reinforced Plastic Nipple .....                                  | 168.80                    | 18.61                   |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -20.93                    |                         |
| 23 11 26 00-0070 EA 3" x 12" Fiberglass Reinforced Plastic Nipple .....                                 | 192.62                    | 23.36                   |
| <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>   | -26.27                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 11 26 00-0071 EA 4" x 8" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>             | 180.19<br>-18.74          | 16.61                   |
| 23 11 26 00-0072 EA 4" x 12" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>            | 216.56<br>-28.10          | 24.98                   |
| 23 11 26 00-0073 EA 6" x 12" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>            | 269.30<br>-30.92          | 27.98                   |
| 23 11 26 00-0074 EA 6" x 12" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>            | 322.01<br>-33.76          | 29.98                   |
| 23 11 26 00-0075 EA 8" x 18" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>            | 168.51<br>-39.35          | 34.98                   |
| 23 11 26 00-0076 EA 8" x 24" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>            | 229.63<br>-56.17          | 49.97                   |
| 23 11 26 00-0077 EA 10" x 18" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>           | 285.07<br>-39.99          | 35.60                   |
| 23 11 26 00-0078 EA 10" x 24" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>           | 427.90<br>-59.90          | 53.22                   |
| 23 11 26 00-0079 EA 12" x 18" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>           | 333.30<br>-41.24          | 36.73                   |
| 23 11 26 00-0080 EA 12" x 24" Fiberglass Reinforced Plastic Nipple .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>           | 435.55<br>-61.88          | 54.96                   |
| <b>23 11 26 00-0081 Fiberglass Reinforced Plastic Sleeve Couplings</b> (23 11 26 00-0011)   |                           |                         |
| 23 11 26 00-0082 EA 2" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>         | 181.20<br>-113.69         | 101.08                  |
| 23 11 26 00-0083 EA 3" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>         | 217.97<br>-136.43         | 121.38                  |
| 23 11 26 00-0084 EA 4" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>         | 252.07<br>-158.61         | 141.12                  |
| 23 11 26 00-0085 EA 5" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>         | 302.83<br>-185.03         | 167.63                  |
| 23 11 26 00-0086 EA 6" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>         | 321.47<br>-187.37         | 166.63                  |
| 23 11 26 00-0087 EA 8" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>         | 417.35<br>-234.21         | 208.23                  |
| 23 11 26 00-0088 EA 10" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>        | 536.07<br>-282.06         | 250.83                  |
| 23 11 26 00-0089 EA 12" Fiberglass Reinforced Plastic Sleeve Coupling .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>        | 654.99<br>-349.76         | 311.04                  |
| <b>23 11 26 00-0090 Fiberglass Reinforced Plastic Flanges</b> (23 11 26 00-0011)  |                           |                         |
| 23 11 26 00-0091 EA 2" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                  | 184.90<br>-113.69         | 101.08                  |
| 23 11 26 00-0092 EA 3" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                  | 222.86<br>-136.43         | 121.38                  |
| 23 11 26 00-0093 EA 4" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                  | 242.44<br>-140.28         | 124.79                  |
| 23 11 26 00-0094 EA 5" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                  | 292.87<br>-163.95         | 148.52                  |
| 23 11 26 00-0095 EA 6" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                  | 342.96<br>-187.37         | 166.63                  |
| 23 11 26 00-0096 EA 8" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                  | 425.50<br>-224.21         | 199.36                  |
| 23 11 26 00-0097 EA 10" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                 | 569.50<br>-282.06         | 250.83                  |
| 23 11 26 00-0098 EA 12" Fiberglass Reinforced Plastic Flange .....<br><i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>                 | 788.72<br>-349.76         | 311.04                  |
| <b>23 11 26 00-0099 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings</b> (23 11 26)                     |                           |                         |
| <b>23 11 26 00-0100 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing</b> (23 11 26 00-0099)                          |                           |                         |
| 23 11 26 00-0101 LF 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....  | 158.01                    | 43.56                   |
| 23 11 26 00-0102 LF 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....  | 188.32                    | 51.60                   |
| 23 11 26 00-0103 LF 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....  | 241.73                    | 76.13                   |
| 23 11 26 00-0104 LF 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....  | 338.54                    | 98.69                   |
| 23 11 26 00-0105 LF 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....  | 465.95                    | 107.42                  |
| 23 11 26 00-0106 LF 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....                                       | 635.88                    | 127.41                  |
| 23 11 26 00-0107 LF 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....                                       | 812.52                    | 160.76                  |
| <b>23 11 26 00-0108 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings</b> (23 11 26 00-0099)                 |                           |                         |
| <b>23 11 26 00-0109 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows</b> (23 11 26 00-0108) |                           |                         |
| 23 11 26 00-0110 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                 | 2,775.63                  | 539.11                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 11 26 00-0111 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                       | 3,199.91                  | 647.10                  |
| 23 11 26 00-0112 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                       | 3,995.18                  | 751.99                  |
| 23 11 26 00-0113 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                       | 6,803.69                  | 888.52                  |
| 23 11 26 00-0114 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                       | 11,027.28                 | 1,110.86                |
| 23 11 26 00-0115 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                      | 14,874.01                 | 1,336.46                |
| 23 11 26 00-0116 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....                      | 19,864.82                 | 1,654.99                |
| <b>23 11 26 00-0117 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows (23 11 26 00-0108)</b>       |                           |                         |
| 23 11 26 00-0118 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                       | 2,779.91                  | 539.11                  |
| 23 11 26 00-0119 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                       | 3,192.40                  | 647.10                  |
| 23 11 26 00-0120 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                       | 3,989.28                  | 751.99                  |
| 23 11 26 00-0121 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                       | 6,769.02                  | 888.52                  |
| 23 11 26 00-0122 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                       | 10,977.07                 | 1,110.86                |
| 23 11 26 00-0123 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                      | 14,805.92                 | 1,337.09                |
| 23 11 26 00-0124 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....                      | 19,777.25                 | 1,658.75                |
| <b>23 11 26 00-0125 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees (23 11 26 00-0108)</b>                   |                           |                         |
| 23 11 26 00-0126 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                   | 3,873.49                  | 808.66                  |
| 23 11 26 00-0127 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                   | 4,847.25                  | 974.60                  |
| 23 11 26 00-0128 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                   | 5,475.36                  | 1,128.55                |
| 23 11 26 00-0129 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                   | 8,642.63                  | 1,337.71                |
| 23 11 26 00-0130 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                   | 10,928.25                 | 1,658.75                |
| 23 11 26 00-0131 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                  | 19,011.60                 | 2,004.25                |
| 23 11 26 00-0132 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....                                  | 25,975.94                 | 2,430.09                |
| <b>23 11 26 00-0133 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes (23 11 26 00-0108)</b>                   |                           |                         |
| 23 11 26 00-0134 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                   | 5,674.73                  | 808.66                  |
| 23 11 26 00-0135 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                   | 7,423.50                  | 973.47                  |
| 23 11 26 00-0136 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                   | 8,750.19                  | 1,128.55                |
| 23 11 26 00-0137 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                   | 10,944.95                 | 1,337.71                |
| 23 11 26 00-0138 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                   | 14,569.25                 | 1,658.75                |
| 23 11 26 00-0139 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                  | 23,604.08                 | 2,004.25                |
| 23 11 26 00-0140 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....                                  | 30,982.00                 | 2,430.09                |
| <b>23 11 26 00-0141 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers (23 11 26 00-0108)</b>    |                           |                         |
| 23 11 26 00-0142 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                    | 3,063.06                  | 539.11                  |
| 23 11 26 00-0143 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                    | 4,078.93                  | 647.10                  |
| 23 11 26 00-0144 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                    | 4,383.04                  | 751.99                  |
| 23 11 26 00-0145 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                    | 5,600.22                  | 888.52                  |
| 23 11 26 00-0146 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                    | 7,614.78                  | 1,110.86                |
| 23 11 26 00-0147 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                   | 9,923.16                  | 1,336.46                |
| 23 11 26 00-0148 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....                   | 13,954.28                 | 1,654.99                |
| <b>23 11 26 00-0149 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 26 00-0108)</b> |                           |                         |
| 23 11 26 00-0150 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....                 | 2,258.07                  | 539.11                  |
| 23 11 26 00-0151 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....                 | 2,541.58                  | 647.10                  |
| 23 11 26 00-0152 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....                 | 2,847.17                  | 751.99                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 11 26 00-0153 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....       | 4,128.10                  | 888.52                  |
| 23 11 26 00-0154 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....       | 3,558.68                  | 1,110.86                |
| 23 11 26 00-0155 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....      | 4,724.04                  | 1,336.46                |
| 23 11 26 00-0156 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....      | 8,396.42                  | 1,654.99                |
| <b>23 11 26 00-0157 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 26 00-0108)</b>              |                           |                         |
| 23 11 26 00-0158 EA 2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                         | 497.29                    | 64.71                   |
| 23 11 26 00-0159 EA 2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                        | 994.08                    | 129.14                  |
| 23 11 26 00-0160 EA 3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                         | 1,898.23                  | 99.25                   |
| 23 11 26 00-0161 EA 3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                        | 2,143.61                  | 124.54                  |
| 23 11 26 00-0162 EA 4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                         | 2,060.49                  | 88.82                   |
| 23 11 26 00-0163 EA 4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                        | 2,423.57                  | 133.29                  |
| 23 11 26 00-0164 EA 6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                        | 3,679.46                  | 160.14                  |
| 23 11 26 00-0165 EA 8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                        | 1,720.81                  | 186.63                  |
| 23 11 26 00-0166 EA 8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                        | 2,320.76                  | 266.45                  |
| 23 11 26 00-0167 EA 10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                       | 3,161.89                  | 189.62                  |
| 23 11 26 00-0168 EA 10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                       | 4,747.25                  | 284.05                  |
| 23 11 26 00-0169 EA 12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                       | 3,748.92                  | 195.62                  |
| 23 11 26 00-0170 EA 12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....                       | 4,823.72                  | 293.43                  |
| <b>23 11 26 00-0171 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges (23 11 26 00-0108)</b>              |                           |                         |
| 23 11 26 00-0172 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....                              | 1,685.37                  | 665.29                  |
| 23 11 26 00-0173 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....                              | 2,488.46                  | 888.52                  |
| 23 11 26 00-0174 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....                              | 3,165.90                  | 1,063.53                |
| 23 11 26 00-0175 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....                             | 4,405.33                  | 1,336.46                |
| 23 11 26 00-0176 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....                             | 6,484.03                  | 1,654.99                |
| <b>23 12 Facility Fuel Pumps (23 10)</b>  |                           |                         |
| <b>23 12 13 Facility Fuel-Oil Pumps (23 12)</b>   |                           |                         |
| <b>23 12 13 00-0001 Cast Iron Internal Gear Rotary Pump (23 12 13)</b>  |                           |                         |
| Note: Heavy duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise; diesel oil, and light oil. |                           |                         |
| <b>23 12 13 00-0002 10 GPM 1" Discharge (23 12 13 00-0001)</b>  |                           |                         |
| 23 12 13 00-0003 EA 10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge.....  | 1,765.92                  | 409.02                  |
| 23 12 13 00-0004 EA 10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge.....  | 1,865.89                  | 495.05                  |
| 23 12 13 00-0005 EA 10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge.....  | 2,052.34                  | 588.13                  |
| <b>23 12 13 00-0006 25 GPM 1-1/4" Discharge (23 12 13 00-0001)</b>  |                           |                         |
| 23 12 13 00-0007 EA 25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge.....  | 1,937.59                  | 409.02                  |
| 23 12 13 00-0008 EA 25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge.....  | 2,045.82                  | 495.05                  |
| 23 12 13 00-0009 EA 25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge.....  | 2,153.80                  | 588.13                  |
| <b>23 12 13 00-0010 Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI (23 12 13)</b>   |                           |                         |
| 23 12 13 00-0011 EA 1/4 HP Pump Fuel Oil/Diesel.....  | 1,341.90                  | 229.18                  |
| 23 12 13 00-0012 EA 1/3 HP Pump Fuel Oil/Diesel.....  | 1,572.27                  | 256.69                  |
| 23 12 13 00-0013 EA 1/2 HP Pump Fuel Oil/Diesel.....  | 1,722.05                  | 287.72                  |
| 23 12 13 00-0014 EA 3/4 HP Pump Fuel Oil/Diesel.....  | 1,883.13                  | 324.39                  |
| 23 12 13 00-0015 EA 1 HP Pump Fuel Oil/Diesel.....  | 2,608.37                  | 361.06                  |
| 23 12 13 00-0016 EA 1-1/2 HP Pump Fuel Oil/Diesel.....  | 3,174.28                  | 404.08                  |
| 23 12 13 00-0017 EA 2 HP Pump Fuel Oil/Diesel.....  | 3,519.84                  | 452.74                  |
| 23 12 13 00-0018 EA 3 HP Pump Fuel Oil/Diesel.....  | 4,272.29                  | 506.33                  |
| 23 12 13 00-0019 EA 5 HP Pump Fuel Oil/Diesel.....  | 5,023.66                  | 567.68                  |
| 23 12 13 00-0020 EA 7.5 HP Pump Fuel Oil/Diesel.....  | 5,625.18                  | 636.79                  |
| 23 12 13 00-0021 EA 10 HP Pump Fuel Oil/Diesel.....   | 6,306.68                  | 713.80                  |
| <b>23 12 23 Facility Natural-Gas Pumps (23 12)</b>  |                           |                         |
| <b>23 12 23 00-0001 Natural Gas Booster Pump (23 12 23)</b>   |                           |                         |
| 23 12 23 00-0002 EA Natural Gas Booster Pump, 3/4" Outlet Size.....   | 1,304.76                  | 211.56                  |
| 23 12 23 00-0003 EA Natural Gas Booster Pump, 1" Outlet Size.....   | 1,542.04                  | 236.24                  |
| 23 12 23 00-0004 EA Natural Gas Booster Pump, 1-1/4" Outlet Size.....   | 1,722.13                  | 246.82                  |
| 23 12 23 00-0005 EA Natural Gas Booster Pump, 1-1/2" Outlet Size.....   | 1,945.60                  | 257.39                  |
| 23 12 23 00-0006 EA Natural Gas Booster Pump, 2" Outlet Size.....   | 2,190.97                  | 264.45                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 10 Facility Fuel Systems**

**23 13 Facility Fuel-Storage Tanks**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**23 13 Facility Fuel-Storage Tanks (23 10)**

**23 13 13 Facility Underground Fuel-Oil, Storage Tanks (23 13)**

**23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks (23 13 13)**

**23 13 13 13-0001 Coated Underground Double Wall Storage Tanks (23 13 13 13)**

Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.

|                  |    |  |            |           |
|------------------|----|--|------------|-----------|
| 23 13 13 13-0002 | EA | 250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars    | 16,256.70  | 875.32    |
| 23 13 13 13-0003 | EA | 550 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars    | 17,551.41  | 875.32    |
| 23 13 13 13-0004 | EA | 1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 25,332.65  | 1,094.08  |
| 23 13 13 13-0005 | EA | 2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 34,805.30  | 2,136.99  |
| 23 13 13 13-0006 | EA | 3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 55,304.33  | 2,747.40  |
| 23 13 13 13-0007 | EA | 4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 61,627.38  | 3,155.48  |
| 23 13 13 13-0008 | EA | 5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 66,660.54  | 4,172.21  |
| 23 13 13 13-0009 | EA | 6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 68,961.55  | 4,479.59  |
| 23 13 13 13-0010 | EA | 8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars  | 84,135.01  | 5,292.07  |
| 23 13 13 13-0011 | EA | 10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 97,435.74  | 6,104.01  |
| 23 13 13 13-0012 | EA | 12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 124,449.91 | 6,712.52  |
| 23 13 13 13-0013 | EA | 14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 147,566.38 | 8,150.08  |
| 23 13 13 13-0014 | EA | 15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 152,466.49 | 8,649.34  |
| 23 13 13 13-0015 | EA | 20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 187,620.87 | 13,719.66 |
| 23 13 13 13-0016 | EA | 25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 230,741.10 | 17,791.04 |
| 23 13 13 13-0017 | EA | 30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 271,759.82 | 20,356.18 |
| 23 13 13 13-0018 | EA | 40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 348,768.86 | 21,882.90 |
| 23 13 13 13-0019 | EA | 48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars | 471,229.70 | 22,444.05 |

**23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks (23 13 13)**

**23 13 13 23-0001 Underground Fiberglass Storage Tanks (23 13 13 23)**

**23 13 13 23-0002 Single Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)**

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

|                  |    |  |            |           |
|------------------|----|--|------------|-----------|
| 23 13 13 23-0003 | EA | 550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps    | 4,304.23   | 875.32    |
| 23 13 13 23-0004 | EA | 1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 5,405.23   | 1,094.08  |
| 23 13 13 23-0005 | EA | 2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 7,026.39   | 1,353.69  |
| 23 13 13 23-0006 | EA | 3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 8,004.37   | 1,648.85  |
| 23 13 13 23-0007 | EA | 4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 8,975.29   | 1,933.83  |
| 23 13 13 23-0008 | EA | 5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 10,959.29  | 2,544.53  |
| 23 13 13 23-0009 | EA | 6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 13,245.72  | 3,867.68  |
| 23 13 13 23-0010 | EA | 8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps  | 15,089.74  | 4,885.49  |
| 23 13 13 23-0011 | EA | 10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 18,016.69  | 5,496.17  |
| 23 13 13 23-0012 | EA | 12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 20,363.09  | 6,513.98  |
| 23 13 13 23-0013 | EA | 15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 26,072.14  | 7,735.35  |
| 23 13 13 23-0014 | EA | 20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 32,119.80  | 9,669.19  |
| 23 13 13 23-0015 | EA | 25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 40,674.42  | 12,926.18 |
| 23 13 13 23-0016 | EA | 30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 60,090.48  | 16,081.39 |
| 23 13 13 23-0017 | EA | 40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 73,491.91  | 19,338.37 |
| 23 13 13 23-0018 | EA | 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 105,122.59 | 27,989.75 |
| 23 13 13 23-0019 | EA | 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps | 148,721.50 | 35,623.32 |

**23 13 13 23-0020 Double Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)**

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

|                  |    |  |            |           |
|------------------|----|--|------------|-----------|
| 23 13 13 23-0021 | EA | 550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps    | 8,143.45   | 875.32    |
| 23 13 13 23-0022 | EA | 1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 10,720.10  | 1,094.08  |
| 23 13 13 23-0023 | EA | 2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 12,855.40  | 1,323.15  |
| 23 13 13 23-0024 | EA | 3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 16,762.63  | 1,933.97  |
| 23 13 13 23-0025 | EA | 4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 18,908.86  | 2,544.53  |
| 23 13 13 23-0026 | EA | 5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 21,984.84  | 3,867.68  |
| 23 13 13 23-0027 | EA | 6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 24,607.60  | 4,885.49  |
| 23 13 13 23-0028 | EA | 8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps  | 30,130.33  | 5,496.17  |
| 23 13 13 23-0029 | EA | 10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps | 32,476.73  | 6,513.98  |
| 23 13 13 23-0030 | EA | 12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps | 39,267.36  | 7,735.35  |
| 23 13 13 23-0031 | EA | 15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps | 53,805.38  | 9,669.19  |
| 23 13 13 23-0032 | EA | 20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps | 66,848.53  | 12,926.18 |
| 23 13 13 23-0033 | EA | 30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps | 103,127.06 | 19,338.37 |

**23 13 13 23-0034 Underground Storage Tank Pump Enclosures (23 13 13 23)**

|                  |    |   |          |  |
|------------------|----|---|----------|--|
| 23 13 13 23-0035 | EA | Secondary Containment Collar                      | 3,936.38 |  |
| 23 13 13 23-0036 | EA | Turbine Enclosure With Lid 4' Long x 42" Diameter | 3,936.38 |  |
| 23 13 13 23-0037 | EA | Fitting Kit For Turbine Enclosure                 | 787.28   |  |
| 23 13 13 23-0038 | EA | Grommet Kits For Plumbing And Electrical          | 1,574.55 |  |
| 23 13 13 23-0039 | EA | Turbine Electrical Coupling Kit                   | 1,968.19 |  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks</b> <sup>(23 13)</sup>  |                           |                         |
| <b>23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks</b> <sup>(23 13 23)</sup>  |                           |                         |
| <b>23 13 23 13-0001 Vertical Rectangular Double Wall Steel Fuel Day Tank</b> <sup>(23 13 23 13)</sup>                                  |                           |                         |
| Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs. |                           |                         |
| 23 13 23 13-0002 EA 10 Gallon Double Wall Steel Day Tank (Tramont TRX).....  | 1,254.38                  | 183.82                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0003 EA 15 Gallon Double Wall Steel Day Tank (Tramont TRX).....  | 1,345.12                  | 193.01                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0004 EA 25 Gallon Double Wall Steel Day Tank (Tramont TRX).....  | 1,458.96                  | 206.79                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0005 EA 50 Gallon Double Wall Steel Day Tank (Tramont TRX).....  | 1,668.80                  | 220.58                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0006 EA 60 Gallon Double Wall Steel Day Tank (Tramont TRX).....  | 1,853.84                  | 229.77                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0007 EA 75 Gallon Double Wall Steel Day Tank (Tramont TRX).....  | 2,187.56                  | 275.72                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0008 EA 100 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 2,922.45                  | 321.67                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0009 EA 150 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 3,681.34                  | 367.63                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0010 EA 200 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 4,697.38                  | 413.58                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0011 EA 275 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 5,235.12                  | 459.53                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0012 EA 300 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 6,002.03                  | 551.44                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0013 EA 350 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 6,734.65                  | 643.35                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0014 EA 400 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 7,487.83                  | 735.25                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0015 EA 450 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 8,294.72                  | 781.20                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0016 EA 500 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 9,106.75                  | 827.17                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0017 EA 550 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 10,026.79                 | 873.12                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0018 EA 600 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 10,833.68                 | 919.07                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0019 EA 700 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 12,100.06                 | 1,102.88                |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0020 EA 800 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 13,053.83                 | 1,194.79                |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0021 EA 900 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 14,356.20                 | 1,378.60                |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0022 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont TRX).....   | 15,663.72                 | 1,562.42                |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0023 EA 10 Gallon Double Wall Steel Day Tank (Tramont UTRX).....   | 1,504.67                  | 183.82                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0024 EA 15 Gallon Double Wall Steel Day Tank (Tramont UTRX).....   | 1,597.12                  | 193.01                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0025 EA 25 Gallon Double Wall Steel Day Tank (Tramont UTRX).....   | 1,710.96                  | 206.79                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0026 EA 50 Gallon Double Wall Steel Day Tank (Tramont UTRX).....   | 1,919.09                  | 220.58                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0027 EA 60 Gallon Double Wall Steel Day Tank (Tramont UTRX).....   | 2,104.13                  | 229.77                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0028 EA 75 Gallon Double Wall Steel Day Tank (Tramont UTRX).....   | 2,439.57                  | 275.72                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0029 EA 100 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 3,198.46                  | 321.67                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0030 EA 150 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 3,957.35                  | 367.63                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0031 EA 200 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 4,973.39                  | 413.58                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0032 EA 275 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 5,511.13                  | 459.53                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0033 EA 300 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 6,278.03                  | 551.44                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0034 EA 350 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 7,010.65                  | 643.35                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0035 EA 400 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 7,763.84                  | 735.25                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0036 EA 450 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 8,570.73                  | 781.20                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0037 EA 500 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 9,382.76                  | 827.17                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0038 EA 550 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 10,304.51                 | 873.12                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |
| 23 13 23 13-0039 EA 600 Gallon Double Wall Steel Day Tank (Tramont UTRX).....  | 11,111.40                 | 919.07                  |
| Note: Includes rust-inhibitor coated interior and gray painted exterior.   |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 13 23 13-0040 EA 700 Gallon Double Wall Steel Day Tank (Tramont UTRX) .....<br>Note: Includes rust-inhibitor coated interior and gray painted exterior.  | 12,376.06                 | 1,102.88                |
| 23 13 23 13-0041 EA 800 Gallon Double Wall Steel Day Tank (Tramont UTRX) .....<br>Note: Includes rust-inhibitor coated interior and gray painted exterior.  | 13,329.83                 | 1,194.79                |
| 23 13 23 13-0042 EA 900 Gallon Double Wall Steel Day Tank (Tramont UTRX) .....<br>Note: Includes rust-inhibitor coated interior and gray painted exterior.  | 14,632.20                 | 1,378.60                |
| 23 13 23 13-0043 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont UTRX) .....<br>Note: Includes rust-inhibitor coated interior and gray painted exterior.  | 15,939.73                 | 1,562.42                |
| 23 13 23 13-0044 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.    | 2,452.69                  | 183.82                  |
| 23 13 23 13-0045 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.    | 2,534.86                  | 193.01                  |
| 23 13 23 13-0046 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.    | 2,610.98                  | 206.79                  |
| 23 13 23 13-0047 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.    | 2,887.68                  | 220.58                  |
| 23 13 23 13-0048 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.    | 2,993.86                  | 229.77                  |
| 23 13 23 13-0049 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.    | 3,317.30                  | 275.72                  |
| 23 13 23 13-0050 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 3,988.76                  | 321.67                  |
| 23 13 23 13-0051 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 5,018.51                  | 367.63                  |
| 23 13 23 13-0052 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 5,643.68                  | 413.58                  |
| 23 13 23 13-0053 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 7,343.74                  | 459.53                  |
| 23 13 23 13-0054 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 8,312.93                  | 551.44                  |
| 23 13 23 13-0055 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 8,911.84                  | 643.35                  |
| 23 13 23 13-0056 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 9,713.02                  | 735.25                  |
| 23 13 23 13-0057 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 10,483.91                 | 781.20                  |
| 23 13 23 13-0058 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 11,494.80                 | 827.17                  |
| 23 13 23 13-0059 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 11,926.26                 | 873.12                  |
| 23 13 23 13-0060 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 12,314.85                 | 919.07                  |
| 23 13 23 13-0061 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 14,107.53                 | 1,102.88                |
| 23 13 23 13-0062 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 15,810.45                 | 1,194.79                |
| 23 13 23 13-0063 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 17,705.98                 | 1,378.60                |
| 23 13 23 13-0064 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior. | 19,630.66                 | 1,562.42                |
| 23 13 23 13-0065 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 3,584.14                  | 183.82                  |
| 23 13 23 13-0066 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 3,666.31                  | 193.01                  |
| 23 13 23 13-0067 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 3,742.43                  | 206.79                  |
| 23 13 23 13-0068 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 4,019.13                  | 220.58                  |
| 23 13 23 13-0069 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 4,125.31                  | 229.77                  |
| 23 13 23 13-0070 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.   | 4,448.75                  | 275.72                  |
| 23 13 23 13-0071 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 5,120.21                  | 321.67                  |
| 23 13 23 13-0072 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 6,149.96                  | 367.63                  |
| 23 13 23 13-0073 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 6,850.57                  | 413.58                  |
| 23 13 23 13-0074 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 8,080.89                  | 459.53                  |
| 23 13 23 13-0075 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 9,050.09                  | 551.44                  |
| 23 13 23 13-0076 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 9,650.71                  | 643.35                  |
| 23 13 23 13-0077 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 10,450.18                 | 735.25                  |
| 23 13 23 13-0078 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 11,222.78                 | 781.20                  |
| 23 13 23 13-0079 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 12,231.96                 | 827.17                  |
| 23 13 23 13-0080 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 12,663.41                 | 873.12                  |
| 23 13 23 13-0081 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) .....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 13,052.01                 | 919.07                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 13 23 13-0082 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 14,844.69                 | 1,102.88                |
| 23 13 23 13-0083 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 16,549.33                 | 1,194.79                |
| 23 13 23 13-0084 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 18,443.14                 | 1,378.60                |
| 23 13 23 13-0085 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....<br>Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.  | 20,367.81                 | 1,562.42                |
| 23 13 23 13-0086 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 4,216.72                  | 183.82                  |
| 23 13 23 13-0087 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 4,307.46                  | 193.01                  |
| 23 13 23 13-0088 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 4,385.30                  | 206.79                  |
| 23 13 23 13-0089 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 4,670.57                  | 220.58                  |
| 23 13 23 13-0090 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 4,824.75                  | 229.77                  |
| 23 13 23 13-0091 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 5,120.77                  | 275.72                  |
| 23 13 23 13-0092 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 5,817.94                  | 321.67                  |
| 23 13 23 13-0093 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 6,895.69                  | 367.63                  |
| 23 13 23 13-0094 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 7,543.15                  | 413.58                  |
| 23 13 23 13-0095 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 9,308.35                  | 459.53                  |
| 23 13 23 13-0096 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 10,325.54                 | 551.44                  |
| 23 13 23 13-0097 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 10,871.30                 | 643.35                  |
| 23 13 23 13-0098 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 11,775.35                 | 735.25                  |
| 23 13 23 13-0099 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 12,703.95                 | 781.20                  |
| 23 13 23 13-0100 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 13,637.70                 | 827.17                  |
| 23 13 23 13-0101 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 14,118.87                 | 873.12                  |
| 23 13 23 13-0102 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 14,481.75                 | 919.07                  |
| 23 13 23 13-0103 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 16,351.57                 | 1,102.88                |
| 23 13 23 13-0104 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 18,135.07                 | 1,194.79                |
| 23 13 23 13-0105 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 20,111.17                 | 1,378.60                |
| 23 13 23 13-0106 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior. | 22,112.99                 | 1,562.42                |
| 23 13 23 13-0107 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 5,348.18                  | 183.82                  |
| 23 13 23 13-0108 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 5,438.92                  | 193.01                  |
| 23 13 23 13-0109 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 5,516.75                  | 206.79                  |
| 23 13 23 13-0110 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 5,802.02                  | 220.58                  |
| 23 13 23 13-0111 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS).....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 5,956.20                  | 229.77                  |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 10 Facility Fuel Systems**

**23 13 Facility Fuel-Storage Tanks**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 13 23 13-0112 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.    | 6,248.79                  | 275.72                  |
| 23 13 23 13-0113 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 6,949.39                  | 321.67                  |
| 23 13 23 13-0114 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 8,027.14                  | 367.63                  |
| 23 13 23 13-0115 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 8,674.60                  | 413.58                  |
| 23 13 23 13-0116 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 10,045.50                 | 459.53                  |
| 23 13 23 13-0117 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 11,062.70                 | 551.44                  |
| 23 13 23 13-0118 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 11,779.89                 | 643.35                  |
| 23 13 23 13-0119 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 12,512.50                 | 735.25                  |
| 23 13 23 13-0120 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 13,441.11                 | 781.20                  |
| 23 13 23 13-0121 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 14,374.86                 | 827.17                  |
| 23 13 23 13-0122 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 14,856.03                 | 873.12                  |
| 23 13 23 13-0123 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 15,220.63                 | 919.07                  |
| 23 13 23 13-0124 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 17,088.73                 | 1,102.88                |
| 23 13 23 13-0125 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 18,872.23                 | 1,194.79                |
| 23 13 23 13-0126 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.   | 20,848.33                 | 1,378.60                |
| 23 13 23 13-0127 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) .....<br>Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior. | 22,850.15                 | 1,562.42                |
| 23 13 23 13-0128 EA 150% Containment Double Wall Open Top Basin For 10 Gallon Tank.....  | 1,243.20                  | 183.82                  |
| 23 13 23 13-0129 EA 150% Containment Double Wall Open Top Basin For 15 Gallon Tank.....  | 1,344.50                  | 193.01                  |
| 23 13 23 13-0130 EA 150% Containment Double Wall Open Top Basin For 25 Gallon Tank.....  | 1,458.00                  | 206.79                  |
| 23 13 23 13-0131 EA 150% Containment Double Wall Open Top Basin For 50 Gallon Tank.....  | 1,659.75                  | 220.58                  |
| 23 13 23 13-0132 EA 150% Containment Double Wall Open Top Basin For 60 Gallon Tank.....  | 2,179.69                  | 229.77                  |
| 23 13 23 13-0133 EA 150% Containment Double Wall Open Top Basin For 75 Gallon Tank.....  | 2,256.27                  | 275.72                  |
| 23 13 23 13-0134 EA 150% Containment Double Wall Open Top Basin For 100 Gallon Tank.....   | 2,826.18                  | 321.67                  |
| 23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank.....   | 3,484.33                  | 367.63                  |
| 23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank.....   | 4,547.55                  | 413.58                  |
| 23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank.....   | 5,687.70                  | 459.53                  |
| 23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank.....   | 6,827.51                  | 551.44                  |
| 23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank.....   | 7,358.59                  | 643.35                  |
| 23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank.....   | 7,891.93                  | 735.25                  |
| 23 13 23 13-0141 EA 150% Containment Double Wall Open Top Basin For 450 Gallon Tank.....   | 8,654.18                  | 781.20                  |
| 23 13 23 13-0142 EA 150% Containment Double Wall Open Top Basin For 500 Gallon Tank.....   | 9,418.69                  | 827.17                  |
| 23 13 23 13-0143 EA 150% Containment Double Wall Open Top Basin For 550 Gallon Tank.....   | 10,085.92                 | 873.12                  |
| 23 13 23 13-0144 EA 150% Containment Double Wall Open Top Basin For 600 Gallon Tank.....   | 10,759.90                 | 919.07                  |
| 23 13 23 13-0145 EA 150% Containment Double Wall Open Top Basin For 700 Gallon Tank.....   | 12,202.23                 | 1,102.88                |
| 23 13 23 13-0146 EA 150% Containment Double Wall Open Top Basin For 800 Gallon Tank.....   | 13,532.12                 | 1,194.79                |
| 23 13 23 13-0147 EA 150% Containment Double Wall Open Top Basin For 900 Gallon Tank.....   | 15,051.39                 | 1,378.60                |
| 23 13 23 13-0148 EA 150% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....   | 16,520.88                 | 1,562.42                |
| 23 13 23 13-0149 EA 200% Containment Double Wall Open Top Basin For 10 Gallon Tank.....  | 1,310.56                  | 193.01                  |
| 23 13 23 13-0150 EA 200% Containment Double Wall Open Top Basin For 15 Gallon Tank.....  | 1,424.31                  | 206.79                  |
| 23 13 23 13-0151 EA 200% Containment Double Wall Open Top Basin For 25 Gallon Tank.....  | 1,542.83                  | 220.58                  |
| 23 13 23 13-0152 EA 200% Containment Double Wall Open Top Basin For 50 Gallon Tank.....  | 1,746.85                  | 229.77                  |
| 23 13 23 13-0153 EA 200% Containment Double Wall Open Top Basin For 60 Gallon Tank.....  | 2,356.09                  | 275.72                  |
| 23 13 23 13-0154 EA 200% Containment Double Wall Open Top Basin For 75 Gallon Tank.....  | 2,432.68                  | 321.67                  |
| 23 13 23 13-0155 EA 200% Containment Double Wall Open Top Basin For 100 Gallon Tank.....   | 3,029.99                  | 367.63                  |
| 23 13 23 13-0156 EA 200% Containment Double Wall Open Top Basin For 150 Gallon Tank.....   | 3,720.46                  | 413.58                  |
| 23 13 23 13-0157 EA 200% Containment Double Wall Open Top Basin For 200 Gallon Tank.....   | 4,838.49                  | 459.53                  |
| 23 13 23 13-0158 EA 200% Containment Double Wall Open Top Basin For 275 Gallon Tank.....   | 6,037.73                  | 505.49                  |
| 23 13 23 13-0159 EA 200% Containment Double Wall Open Top Basin For 300 Gallon Tank.....   | 7,232.34                  | 597.40                  |
| 23 13 23 13-0160 EA 200% Containment Double Wall Open Top Basin For 350 Gallon Tank.....   | 7,784.42                  | 689.30                  |
| 23 13 23 13-0161 EA 200% Containment Double Wall Open Top Basin For 400 Gallon Tank.....   | 8,338.88                  | 781.20                  |
| 23 13 23 13-0162 EA 200% Containment Double Wall Open Top Basin For 450 Gallon Tank.....   | 9,139.22                  | 827.17                  |
| 23 13 23 13-0163 EA 200% Containment Double Wall Open Top Basin For 500 Gallon Tank.....   | 9,941.95                  | 873.12                  |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 23 13 23 13-0164 | EA    |     |     | 200% Containment Double Wall Open Top Basin For 550 Gallon Tank.....     | 10,641.99              | 919.07               |
| 23 13 23 13-0165 | EA    |     |     | 200% Containment Double Wall Open Top Basin For 600 Gallon Tank.....     | 11,425.75              | 1,010.97             |
| 23 13 23 13-0166 | EA    |     |     | 200% Containment Double Wall Open Top Basin For 700 Gallon Tank.....     | 12,931.20              | 1,194.79             |
| 23 13 23 13-0167 | EA    |     |     | 200% Containment Double Wall Open Top Basin For 800 Gallon Tank.....     | 14,479.63              | 1,378.60             |
| 23 13 23 13-0168 | EA    |     |     | 200% Containment Double Wall Open Top Basin For 900 Gallon Tank.....     | 16,066.29              | 1,562.42             |
| 23 13 23 13-0169 | EA    |     |     | 200% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....   | 17,600.39              | 1,746.23             |
| 23 13 23 13-0170 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....    | 1,421.97               | 183.82               |
| 23 13 23 13-0171 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....    | 1,545.90               | 193.01               |
| 23 13 23 13-0172 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....    | 1,672.97               | 206.79               |
| 23 13 23 13-0173 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....    | 1,919.98               | 220.58               |
| 23 13 23 13-0174 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....    | 2,537.23               | 229.77               |
| 23 13 23 13-0175 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....    | 2,613.81               | 275.72               |
| 23 13 23 13-0176 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....   | 3,265.18               | 321.67               |
| 23 13 23 13-0177 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....   | 4,029.69               | 367.63               |
| 23 13 23 13-0178 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....   | 5,277.85               | 413.58               |
| 23 13 23 13-0179 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....   | 6,674.33               | 459.53               |
| 23 13 23 13-0180 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....   | 8,015.53               | 551.44               |
| 23 13 23 13-0181 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....   | 8,616.77               | 643.35               |
| 23 13 23 13-0182 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....   | 9,222.52               | 735.25               |
| 23 13 23 13-0183 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....   | 10,127.33              | 781.20               |
| 23 13 23 13-0184 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....   | 11,034.40              | 827.17               |
| 23 13 23 13-0185 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....   | 11,807.97              | 873.12               |
| 23 13 23 13-0186 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....   | 12,599.64              | 919.07               |
| 23 13 23 13-0187 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....   | 14,279.58              | 1,102.88             |
| 23 13 23 13-0188 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....   | 15,849.33              | 1,194.79             |
| 23 13 23 13-0189 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....   | 17,606.20              | 1,378.60             |
| 23 13 23 13-0190 | EA    |     |     | 150% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank..... | 19,313.30              | 1,562.42             |
| 23 13 23 13-0191 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....    | 1,499.26               | 193.01               |
| 23 13 23 13-0192 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....    | 1,636.89               | 206.79               |
| 23 13 23 13-0193 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....    | 1,769.75               | 220.58               |
| 23 13 23 13-0194 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....    | 2,021.54               | 229.77               |
| 23 13 23 13-0195 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....    | 2,733.50               | 275.72               |
| 23 13 23 13-0196 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....    | 2,810.09               | 321.67               |
| 23 13 23 13-0197 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....   | 3,493.38               | 367.63               |
| 23 13 23 13-0198 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....   | 4,296.12               | 413.58               |
| 23 13 23 13-0199 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....   | 5,609.36               | 459.53               |
| 23 13 23 13-0200 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....   | 7,079.16               | 505.49               |
| 23 13 23 13-0201 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....   | 8,486.37               | 597.40               |
| 23 13 23 13-0202 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....   | 9,112.50               | 689.30               |
| 23 13 23 13-0203 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....   | 9,743.39               | 781.20               |
| 23 13 23 13-0204 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....   | 10,694.21              | 827.17               |
| 23 13 23 13-0205 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....   | 11,647.43              | 873.12               |
| 23 13 23 13-0206 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....   | 12,459.71              | 919.07               |
| 23 13 23 13-0207 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....   | 13,367.70              | 1,010.97             |
| 23 13 23 13-0208 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....   | 15,123.95              | 1,194.79             |
| 23 13 23 13-0209 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....   | 16,925.57              | 1,378.60             |
| 23 13 23 13-0210 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....   | 18,763.04              | 1,562.42             |
| 23 13 23 13-0211 | EA    |     |     | 200% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank..... | 20,547.94              | 1,746.23             |

**23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)**

|                         |  |  |  |                    |
|-------------------------|--|--|--|--------------------|
| <b>23 13 23 16-0001</b> | <b>Single Wall Aboveground Storage Tanks (23 13 23 16)</b>   |  |  |                    |
|                         | Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes pumps, piping, pad, foundation excavation and backfill. |  |  |                    |
| 23 13 23 16-0002        | EA   |  | 300 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....   | 5,231.91 999.03    |
| 23 13 23 16-0003        | EA   |  | 550 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....   | 6,292.32 1,209.34  |
| 23 13 23 16-0004        | EA   |  | 1,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 8,340.21 1,545.98  |
| 23 13 23 16-0005        | EA   |  | 1,500 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 10,766.50 1,932.48 |
| 23 13 23 16-0006        | EA   |  | 2,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 12,888.47 2,500.96 |
| 23 13 23 16-0007        | EA   |  | 3,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 19,198.94 2,574.52 |
| 23 13 23 16-0008        | EA   |  | 5,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 27,801.95 3,183.03 |
| 23 13 23 16-0009        | EA   |  | 8,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....  | 38,036.46 3,647.15 |
| 23 13 23 16-0010        | EA   |  | 10,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings..... | 45,262.00 3,978.69 |
| 23 13 23 16-0011        | EA   |  | 12,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings..... | 52,493.35 4,376.58 |
| 23 13 23 16-0012        | EA   |  | 15,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings..... | 58,114.00 4,862.82 |
| 23 13 23 16-0013        | EA   |  | 20,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings..... | 72,624.73 6,252.19 |
| 23 13 23 16-0014        | EA   |  | 30,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings..... | 98,962.70 7,294.30 |

|                         |  |  |   |                    |
|-------------------------|--|--|---|--------------------|
| <b>23 13 23 16-0015</b> | <b>Double Wall Aboveground Storage Tanks (23 13 23 16)</b>   |  |   |                    |
|                         | Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes pumps, piping, pad, foundation excavation and backfill. |  |   |                    |
| 23 13 23 16-0016        | EA   |  | 300 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....   | 8,192.85 1,246.57  |
| 23 13 23 16-0017        | EA   |  | 550 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....   | 9,848.19 1,508.50  |
| 23 13 23 16-0018        | EA   |  | 1,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 12,934.11 1,932.48 |
| 23 13 23 16-0019        | EA   |  | 1,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 16,935.41 2,415.60 |
| 23 13 23 16-0020        | EA   |  | 2,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings..... | 21,675.10 3,126.17 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 10 Facility Fuel Systems**

**23 13 Facility Fuel-Storage Tanks**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 13 23 16-0021 EA 3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....   | 30,625.03                 | 3,218.04                |
| 23 13 23 16-0022 EA 5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....   | 44,650.88                 | 3,964.30                |
| 23 13 23 16-0023 EA 8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....  | 61,534.56                 | 4,558.97                |
| 23 13 23 16-0024 EA 10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....   | 73,437.89                 | 4,973.43                |
| 23 13 23 16-0025 EA 12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....   | 85,311.69                 | 5,470.66                |
| 23 13 23 16-0026 EA 15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....   | 94,435.86                 | 6,078.63                |
| 23 13 23 16-0027 EA 20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....   | 117,912.16                | 7,815.28                |
| 23 13 23 16-0028 EA 30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....   | 161,399.99                | 9,117.80                |
| <b>23 13 23 16-0029 Horizontal Rectangular Double Wall Aboveground Fuel Day Tanks (23 13 23 16)</b>   |                           |                         |
| Note: Includes solenoid valve. Excludes piping and concrete pad.  |                           |                         |
| 23 13 23 16-0030 EA 550 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....  | 15,645.69                 | 1,508.50                |
| 23 13 23 16-0031 EA 750 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....  | 16,408.76                 | 1,594.30                |
| 23 13 23 16-0032 EA 1,000 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....  | 18,473.67                 | 1,932.48                |
| 23 13 23 16-0033 EA 1,500 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....  | 22,129.30                 | 2,415.60                |
| 23 13 23 16-0034 EA 2,000 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....  | 28,236.73                 | 3,126.17                |
| Note: Includes 2" solenoid valve.   |                           |                         |
| <b>23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)</b>  |                           |                         |
| <b>23 13 23 19-0001 Secondary Containment For Above Ground Tanks (23 13 23 19)</b>  |                           |                         |
| 23 13 23 19-0002 EA Steel Dike For 550 Gallon Tank, Uncoated.....   | 6,120.25                  |                         |
| 23 13 23 19-0003 EA Steel Dike For 1,000 Gallon Tank, Uncoated.....   | 7,395.96                  |                         |
| 23 13 23 19-0004 EA Steel Dike For 2,000 Gallon Tank, Uncoated.....   | 16,133.13                 |                         |
| 23 13 23 19-0005 EA Steel Dike For 3,000 Gallon Tank, Uncoated.....   | 17,667.02                 |                         |
| 23 13 23 19-0006 EA Steel Dike For 5,000 Gallon Tank, Uncoated.....   | 25,096.02                 |                         |
| 23 13 23 19-0007 EA Steel Dike For 6,000 Gallon Tank, Uncoated.....   | 28,115.96                 |                         |
| 23 13 23 19-0008 EA Steel Dike For 8,000 Gallon Tank, Uncoated.....   | 37,111.32                 |                         |
| 23 13 23 19-0009 EA Steel Dike For 10,000 Gallon Tank, Uncoated.....  | 43,554.86                 |                         |
| 23 13 23 19-0010 EA Steel Dike For 12,000 Gallon Tank, Uncoated.....  | 49,481.80                 |                         |
| 23 13 23 19-0011 EA Steel Dike For 15,000 Gallon Tank, Uncoated.....  | 60,253.36                 |                         |
| 23 13 23 19-0012 EA Steel Dike For 20,000 Gallon Tank, Uncoated.....  | 77,129.92                 |                         |
| <b>23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)</b>  |                           |                         |
| <b>23 13 23 26-0001 Aboveground Concrete Vaulted Storage Tanks (23 13 23 26)</b>  |                           |                         |
| Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overflow containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping. |                           |                         |
| 23 13 23 26-0002 EA 500 Gallon Concrete Vaulted Storage Tank.....   | 33,975.42                 | 1,892.99                |
| <i>For Low Profile Tanks, Add</i>   |                           |                         |
|   | 12,533.62                 |                         |
| 23 13 23 26-0003 EA 1,000 Gallon Concrete Vaulted Storage Tank.....   | 42,787.03                 | 2,136.99                |
| <i>For Low Profile Tanks, Add</i>   |                           |                         |
|   | 15,922.07                 |                         |
| 23 13 23 26-0004 EA 2,000 Gallon Concrete Vaulted Storage Tank.....   | 75,897.23                 | 2,544.53                |
| <i>For Low Profile Tanks, Add</i>   |                           |                         |
|   | 28,938.69                 |                         |
| 23 13 23 26-0005 EA 4,000 Gallon Concrete Vaulted Storage Tank.....   | 120,273.39                | 5,596.73                |
| 23 13 23 26-0006 EA 5,000 Gallon Concrete Vaulted Storage Tank.....   | 137,400.95                | 6,112.56                |
| 23 13 23 26-0007 EA 6,000 Gallon Concrete Vaulted Storage Tank.....   | 154,637.01                | 6,601.11                |
| 23 13 23 26-0008 EA 8,000 Gallon Concrete Vaulted Storage Tank.....   | 171,844.94                | 7,163.07                |
| 23 13 23 26-0009 EA 10,000 Gallon Concrete Vaulted Storage Tank.....  | 189,043.99                | 7,624.75                |
| <b>23 13 33 Facility Fuel-Oil, Storage Tank Accessories (23 13)</b>   |                           |                         |
| <b>23 13 33 00-0001 EPA Requirements (23 13 33)</b>   |                           |                         |
| 23 13 33 00-0002 EA Fill Pipe Spill Containment Manhole (5 Gallon).....   | 2,341.36                  |                         |
| 23 13 33 00-0003 EA Over-Fill Prevention Valve.....   | 1,420.20                  |                         |
| 23 13 33 00-0004 EA Tank Manway With Cover, Fiberglass.....   | 4,630.53                  |                         |
| 23 13 33 00-0005 EA Tank Manway With Cover, Steel.....  | 6,256.98                  |                         |
| 23 13 33 00-0006 EA Vent Fill Alarm (Whistle Vent).....   | 246.17                    |                         |
| 23 13 33 00-0007 EA Reservoir Sensor, Liquid Level.....   | 756.75                    |                         |
| 23 13 33 00-0008 EA Manhole Spill Containment.....  | 2,802.55                  | 356.57                  |
| 23 13 33 00-0009 EA Fill Adapter, 4".....   | 533.51                    | 237.75                  |
| 23 13 33 00-0010 EA Fill Cap, 4".....   | 370.94                    | 89.14                   |
| 23 13 33 00-0011 EA 2" Vent Cap.....  | 216.66                    | 59.47                   |
| 23 13 33 00-0012 EA 4" x 2" Extractor Fitting.....  | 851.77                    | 89.14                   |
| 23 13 33 00-0013 EA Float Vent Valve.....   | 496.81                    | 178.28                  |
| 23 13 33 00-0014 EA Vapor Hose Adapter.....   | 780.31                    | 118.81                  |
| 23 13 33 00-0015 EA Dust Cap.....   | 322.32                    | 64.89                   |
| 23 13 33 00-0016 EA 1" Double Poppet Foot Valve.....  | 517.14                    | 101.83                  |
| 23 13 33 00-0017 EA 10' Wood Gage Stick.....  | 44.83                     |                         |
| 23 13 33 00-0018 EA 1-1/4" Tank Filled Breather, NPT.....   | 307.03                    |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
|                  |       |     |     | 23 13 33 00-0019 EA 1-1/2" Tank Filled Breather, Bayonet.....  | 425.83                 |                      |
|                  |       |     |     | 23 13 33 00-0020 EA 2" Cast Iron Combination Fill Cap And Vent.....  | 104.79                 |                      |
|                  |       |     |     | 23 13 33 00-0021 EA 3" Cast Iron Combination Fill Cap And Vent.....  | 140.18                 |                      |
|                  |       |     |     | 23 13 33 00-0022 EA 4" Cast Iron Combination Fill Cap And Vent.....  | 217.91                 |                      |
|                  |       |     |     | 23 13 33 00-0023 EA Pressure And Vacuum Control Vent.....  | 1,996.62               |                      |
|                  |       |     |     | 23 13 33 00-0024 EA 1/4 HP Fuel/Diesel Pump Set.....   | 1,985.69               |                      |
|                  |       |     |     | 23 13 33 00-0025 EA 1/3 HP Fuel/Diesel Pump Set.....   | 2,344.86               |                      |
|                  |       |     |     | 23 13 33 00-0026 EA 1/2 HP Fuel/Diesel Pump Set.....   | 2,557.98               |                      |
|                  |       |     |     | 23 13 33 00-0027 EA 3/4 HP Fuel/Diesel Pump Set.....   | 2,805.72               |                      |
|                  |       |     |     | 23 13 33 00-0028 EA 1 HP Fuel/Diesel Pump Set.....   | 3,985.62               |                      |
|                  |       |     |     | 23 13 33 00-0029 EA 1-1/2 HP Fuel/Diesel Pump Set.....   | 4,910.89               |                      |
|                  |       |     |     | 23 13 33 00-0030 EA 2 HP Fuel/Diesel Pump Set.....   | 5,438.51               |                      |
|                  |       |     |     | 23 13 33 00-0031 EA 3 HP Fuel/Diesel Pump Set.....   | 6,670.03               |                      |
|                  |       |     |     | 23 13 33 00-0032 EA 5 HP Fuel/Diesel Pump Set.....   | 7,887.00               |                      |
|                  |       |     |     | 23 13 33 00-0033 EA 7.5 HP Fuel/Diesel Pump Set.....   | 8,828.85               |                      |
|                  |       |     |     | 23 13 33 00-0034 EA 10 HP Fuel/Diesel Pump Set.....  | 10,191.18              |                      |
| 23 13 33 00-0035 |       |     |     | <b>Tank Bulkhead Fittings</b> (23 13 33)   |                        |                      |
| 23 13 33 00-0036 |       |     |     | <b>Tank Bulkhead Fittings</b> (23 13 33 00-0035)   |                        |                      |
| 23 13 33 00-0037 |       |     |     | <b>Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection</b> (23 13 33 00-0036)              |                        |                      |
|                  |       |     |     | 23 13 33 00-0038 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                             | 79.83                  |                      |
|                  |       |     |     | 23 13 33 00-0039 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                             | 89.40                  |                      |
|                  |       |     |     | 23 13 33 00-0040 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                               | 98.35                  |                      |
|                  |       |     |     | 23 13 33 00-0041 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                           | 120.92                 |                      |
|                  |       |     |     | 23 13 33 00-0042 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                           | 123.98                 |                      |
|                  |       |     |     | 23 13 33 00-0043 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                               | 167.78                 |                      |
|                  |       |     |     | 23 13 33 00-0044 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                               | 276.23                 |                      |
|                  |       |     |     | 23 13 33 00-0045 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....                               | 499.23                 |                      |
| 23 13 33 00-0046 |       |     |     | <b>Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection</b> (23 13 33 00-0036)              |                        |                      |
|                  |       |     |     | 23 13 33 00-0047 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                             | 95.22                  |                      |
|                  |       |     |     | 23 13 33 00-0048 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                             | 104.73                 |                      |
|                  |       |     |     | 23 13 33 00-0049 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                               | 114.30                 |                      |
|                  |       |     |     | 23 13 33 00-0050 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                           | 145.71                 |                      |
|                  |       |     |     | 23 13 33 00-0051 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                           | 155.27                 |                      |
|                  |       |     |     | 23 13 33 00-0052 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                               | 196.12                 |                      |
|                  |       |     |     | 23 13 33 00-0053 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                               | 314.01                 |                      |
|                  |       |     |     | 23 13 33 00-0054 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....                               | 552.91                 |                      |
| 23 13 33 00-0055 |       |     |     | <b>Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection</b> (23 13 33 00-0036) |                        |                      |
|                  |       |     |     | 23 13 33 00-0056 EA 1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....                | 98.72                  |                      |
|                  |       |     |     | 23 13 33 00-0057 EA 3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....                | 114.80                 |                      |
|                  |       |     |     | 23 13 33 00-0058 EA 1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....                  | 130.25                 |                      |
|                  |       |     |     | 23 13 33 00-0059 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....              | 170.59                 |                      |
|                  |       |     |     | 23 13 33 00-0060 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....                  | 227.97                 |                      |
|                  |       |     |     | 23 13 33 00-0061 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....                  | 365.38                 |                      |
|                  |       |     |     | 23 13 33 00-0062 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....                  | 584.81                 |                      |
| 23 13 33 00-0063 |       |     |     | <b>Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection</b> (23 13 33 00-0036)                           |                        |                      |
|                  |       |     |     | 23 13 33 00-0064 EA 1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....  | 118.24                 |                      |
|                  |       |     |     | 23 13 33 00-0065 EA 3/4" Polypropylene Bulkhead Fitting, Thread x Thread.....  | 140.77                 |                      |
|                  |       |     |     | 23 13 33 00-0066 EA 1" Polypropylene Bulkhead Fitting, Thread x Thread.....  | 175.67                 |                      |
|                  |       |     |     | 23 13 33 00-0067 EA 1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread.....                                      | 216.53                 |                      |
|                  |       |     |     | 23 13 33 00-0068 EA 1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....                                      | 219.58                 |                      |
|                  |       |     |     | 23 13 33 00-0069 EA 2" Polypropylene Bulkhead Fitting, Thread x Thread.....  | 321.81                 |                      |
|                  |       |     |     | 23 13 33 00-0070 EA 3" Polypropylene Bulkhead Fitting, Thread x Thread.....  | 591.98                 |                      |
|                  |       |     |     | 23 13 33 00-0071 EA 4" Polypropylene Bulkhead Fitting, Thread x Thread.....  | 1,074.67               |                      |
| 23 13 33 00-0072 |       |     |     | <b>Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection</b> (23 13 33 00-0036)                           |                        |                      |
|                  |       |     |     | 23 13 33 00-0073 EA 3/4" Polyethylene Bulkhead Fitting, Thread x Thread.....   | 100.60                 |                      |
|                  |       |     |     | 23 13 33 00-0074 EA 1" Polyethylene Bulkhead Fitting, Thread x Thread.....   | 133.00                 |                      |
|                  |       |     |     | 23 13 33 00-0075 EA 1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread.....                                       | 136.07                 |                      |
|                  |       |     |     | 23 13 33 00-0076 EA 1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread.....                                       | 139.12                 |                      |
|                  |       |     |     | 23 13 33 00-0077 EA 2" Polyethylene Bulkhead Fitting, Thread x Thread.....   | 200.81                 |                      |
|                  |       |     |     | 23 13 33 00-0078 EA 3" Polyethylene Bulkhead Fitting, Thread x Thread.....   | 257.52                 |                      |
| 23 13 33 00-0079 |       |     |     | <b>TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection</b> (23 13 33 00-0036)                            |                        |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 10 Facility Fuel Systems**

**23 13 Facility Fuel-Storage Tanks**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 13 33 00-0080 | EA  |     | 1/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....   | 491.68                 |                      |
| 23 13 33 00-0081 | EA  |     | 1/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....   | 562.19                 |                      |
| 23 13 33 00-0082 | EA  |     | 3/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....   | 693.47                 |                      |
| 23 13 33 00-0083 | EA  |     | 1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....   | 801.04                 |                      |
| 23 13 33 00-0084 | EA  |     | 3/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....   | 923.67                 |                      |
| 23 13 33 00-0085 | EA  |     | 1" TFE Teflon Bulkhead Fitting, Thread x Thread.....     | 1,166.22               |                      |
| 23 13 33 00-0086 | EA  |     | 1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread..... | 1,517.18               |                      |
| 23 13 33 00-0087 | EA  |     | 2" TFE Teflon Bulkhead Fitting, Thread x Thread.....     | 1,676.90               |                      |

**23 13 33 00-0088 Self-Aligning Bulkhead Fittings** (23 13 33 00-0035)

|                  |    |  |   |          |  |
|------------------|----|--|---|----------|--|
| 23 13 33 00-0089 | EA |  | 3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....   | 499.12   |  |
| 23 13 33 00-0090 | EA |  | 1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....     | 498.24   |  |
| 23 13 33 00-0091 | EA |  | 1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting..... | 732.27   |  |
| 23 13 33 00-0092 | EA |  | 2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....     | 746.42   |  |
| 23 13 33 00-0093 | EA |  | 3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....     | 1,013.31 |  |

**23 20 HVAC Piping and Pumps** (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**23 21 Hydronic Piping and Pumps** (23 20)

**23 21 13 Hydronic Piping** (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**23 21 13 23 Aboveground Hydronic Piping** (23 21 13)

**23 21 13 23-0001 Threaded Black Steel Pipe** (23 21 13 23)

**23 21 13 23-0002 Threaded Black Steel Pipe Assemblies** (23 21 13 23-0001)

Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. Includes cutting and threading to length where necessary.

|                  |    |  |   |        |       |
|------------------|----|--|---|--------|-------|
| 23 21 13 23-0003 | LF |  | 1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 27.25  | 5.64  |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 6.70   |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 5.83   |       |
| 23 21 13 23-0004 | LF |  | 3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 30.01  | 6.06  |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 7.56   |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 6.09   |       |
| 23 21 13 23-0005 | LF |  | 1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 33.56  | 6.63  |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 8.65   |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 6.43   |       |
| 23 21 13 23-0006 | LF |  | 1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 40.39  | 6.91  |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 10.84  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 6.93   |       |
| 23 21 13 23-0007 | LF |  | 1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 43.30  | 8.18  |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 11.84  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 7.03   |       |
| 23 21 13 23-0008 | LF |  | 2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 52.23  | 9.86  |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 14.58  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 7.92   |       |
| 23 21 13 23-0009 | LF |  | 2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 77.07  | 11.70 |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 22.51  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 9.82   |       |
| 23 21 13 23-0010 | LF |  | 3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 98.11  | 15.65 |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 28.90  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 12.03  |       |
| 23 21 13 23-0011 | LF |  | 4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....   | 137.08 | 16.61 |
|                  |    |  | Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |        |       |
|                  |    |  | <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>  | 42.95  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>  | 12.00  |       |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0012 LF 5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... 221.57   |                           | 21.23                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   | 72.14                     |                         |
| For Work In Restricted Working Space, Add   | 14.30                     |                         |
| 23 21 13 23-0013 LF 6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... 266.47   |                           | 25.11                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add   | 87.29                     |                         |
| For Work In Restricted Working Space, Add   | 16.20                     |                         |
| <b>23 21 13 23-0014 Threaded Black Steel Pipe And Fittings</b> <small>(23 21 13 23-0001)</small>  |                           |                         |
| Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.  |                           |                         |
| <b>23 21 13 23-0015 Threaded And Coupled, Black Steel Piping</b> <small>(23 21 13 23-0014)</small>  |                           |                         |
| Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.   |                           |                         |
| 23 21 13 23-0016 LF 3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 10.25   |                           | 3.52                    |
| For Schedule 80 Pipe, Add   | 2.12                      |                         |
| For Work In Restricted Working Space, Add   | 2.14                      |                         |
| 23 21 13 23-0017 LF 1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 13.78   |                           | 5.64                    |
| For Schedule 80 Pipe, Add   | 3.21                      |                         |
| For Work In Restricted Working Space, Add   | 2.57                      |                         |
| 23 21 13 23-0018 LF 3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 15.88   |                           | 6.06                    |
| For Schedule 80 Pipe, Add   | 3.96                      |                         |
| For Work In Restricted Working Space, Add   | 2.73                      |                         |
| 23 21 13 23-0019 LF 1" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 18.89   |                           | 6.63                    |
| For Schedule 80 Pipe, Add   | 5.05                      |                         |
| For Work In Restricted Working Space, Add   | 2.96                      |                         |
| 23 21 13 23-0020 LF 1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 22.54  |                           | 6.91                    |
| For Schedule 80 Pipe, Add   | 6.49                      |                         |
| For Work In Restricted Working Space, Add   | 3.14                      |                         |
| 23 21 13 23-0021 LF 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 26.72  |                           | 8.18                    |
| For Schedule 80 Pipe, Add   | 7.73                      |                         |
| For Work In Restricted Working Space, Add   | 3.68                      |                         |
| 23 21 13 23-0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 33.78   |                           | 9.86                    |
| For Schedule 80 Pipe, Add   | 10.01                     |                         |
| For Work In Restricted Working Space, Add   | 4.45                      |                         |
| 23 21 13 23-0023 LF 2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 47.54  |                           | 11.70                   |
| For Schedule 80 Pipe, Add   | 15.23                     |                         |
| For Work In Restricted Working Space, Add   | 5.29                      |                         |
| 23 21 13 23-0024 LF 3" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 62.69   |                           | 15.65                   |
| For Schedule 80 Pipe, Add   | 19.99                     |                         |
| For Work In Restricted Working Space, Add   | 7.05                      |                         |
| 23 21 13 23-0025 LF 4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 83.55   |                           | 16.61                   |
| For Schedule 80 Pipe, Add   | 28.85                     |                         |
| For Work In Restricted Working Space, Add   | 7.49                      |                         |
| 23 21 13 23-0026 LF 5" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 109.62  |                           | 21.23                   |
| For Schedule 80 Pipe, Add   | 38.20                     |                         |
| For Work In Restricted Working Space, Add   | 9.54                      |                         |
| 23 21 13 23-0027 LF 6" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 140.25  |                           | 25.11                   |
| For Schedule 80 Pipe, Add   | 49.95                     |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 23 21 13 23-0028 LF 8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 197.68  |                           | 30.35                   |
| For Schedule 80 Pipe, Add   | 73.06                     |                         |
| For Work In Restricted Working Space, Add   | 13.63                     |                         |
| 23 21 13 23-0029 LF 10" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 271.00   |                           | 36.98                   |
| For Schedule 80 Pipe, Add   | 102.52                    |                         |
| For Work In Restricted Working Space, Add   | 16.65                     |                         |
| 23 21 13 23-0030 LF 12" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 362.60   |                           | 48.59                   |
| For Schedule 80 Pipe, Add   | 137.67                    |                         |
| For Work In Restricted Working Space, Add   | 21.86                     |                         |
| <b>23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows</b> <small>(23 21 13 23-0014)</small>   |                           |                         |
| 23 21 13 23-0032 EA 3/8", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 40.87  |                           | 20.87                   |
| For 300 LB Rating, Add  | 24.78                     |                         |
| For Standard Weight Cast Iron Fittings, Add   | 0.15                      |                         |
| For Work In Restricted Working Space, Add   | 9.40                      |                         |
| 23 21 13 23-0033 EA 1/2", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 44.22  |                           | 25.10                   |
| For 300 LB Rating, Add  | 18.14                     |                         |
| For Standard Weight Cast Iron Fittings, Add   | 0.11                      |                         |
| For Work In Restricted Working Space, Add   | 11.28                     |                         |
| 23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 50.06  |                           | 28.06                   |
| For 300 LB Rating, Add  | 21.68                     |                         |
| For Standard Weight Cast Iron Fittings, Add   | 0.13                      |                         |
| For Work In Restricted Working Space, Add   | 12.62                     |                         |
| 23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 60.84  |                           | 31.29                   |
| For 300 LB Rating, Add  | 36.06                     |                         |
| For Standard Weight Cast Iron Fittings, Add   | 0.22                      |                         |
| For Work In Restricted Working Space, Add   | 14.10                     |                         |
| 23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 76.05  |                           | 35.53                   |
| For 300 LB Rating, Add  | 58.01                     |                         |
| For Standard Weight Cast Iron Fittings, Add   | 0.37                      |                         |
| For Work In Restricted Working Space, Add   | 15.96                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 90.04<br>75.72<br>0.48<br>18.00        | 40.04                   |
| 23 21 13 23-0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 128.03<br>128.96<br>0.83<br>22.86      | 50.89                   |
| 23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                   | 228.24<br>283.85<br>1.85<br>33.84      | 75.29                   |
| 23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 317.34<br>414.36<br>2.70<br>44.52      | 98.97                   |
| 23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 508.61<br>879.66<br>5.81<br>43.72      | 97.18                   |
| 23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 1,212.45<br>2,554.04<br>16.97<br>45.62 | 101.43                  |
| 23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                        | 1,383.87<br>2,949.27<br>19.60<br>47.69 | 106.05                  |
| <b>23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows</b> (23 21 13 23-0014)   |  |                         |
| 23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 47.04<br>32.28<br>0.20<br>10.34        | 22.98                   |
| 23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 52.80<br>33.49<br>0.21<br>11.95        | 26.51                   |
| 23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 54.82<br>45.67<br>0.29<br>11.01        | 24.53                   |
| 23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>       | 61.19<br>42.63<br>0.27<br>13.36        | 29.74                   |
| 23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>       | 60.25<br>45.64<br>0.29<br>12.69        | 28.20                   |
| 23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>       | 74.52<br>87.19<br>0.57<br>11.75        | 26.08                   |
| 23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 78.06<br>70.13<br>0.45<br>15.03        | 33.42                   |
| 23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 78.85<br>77.79<br>0.50<br>14.29        | 31.72                   |
| 23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 81.86<br>90.25<br>0.58<br>13.62        | 30.31                   |
| 23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 96.06<br>98.12<br>0.63<br>16.98        | 37.78                   |
| 23 21 13 23-0055 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 92.96<br>97.94<br>0.63<br>16.05        | 35.67                   |
| 23 21 13 23-0056 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 96.20<br>111.47<br>0.72<br>15.31       | 33.98                   |
| 23 21 13 23-0057 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 125.28<br>141.32<br>0.91<br>20.43      | 45.39                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....     | 129.69                    | 43.14                   |
| <i>For 300 LB Rating, Add</i>  | 159.86                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 1.04                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 19.41                     |                         |
| 23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....         | 126.58                    | 41.03                   |
| <i>For 300 LB Rating, Add</i>  | 159.67                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 1.04                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.48                     |                         |
| 23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....       | 128.04                    | 39.48                   |
| <i>For 300 LB Rating, Add</i>  | 168.91                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 1.10                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 17.74                     |                         |
| 23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....     | 251.43                    | 63.02                   |
| <i>For 300 LB Rating, Add</i>  | 382.30                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 2.51                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 28.35                     |                         |
| 23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... | 252.56                    | 57.66                   |
| <i>For 300 LB Rating, Add</i>  | 403.99                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 2.66                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 25.92                     |                         |
| 23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....     | 424.28                    | 87.12                   |
| <i>For 300 LB Rating, Add</i>  | 712.69                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 4.70                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 39.18                     |                         |
| 23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....         | 366.00                    | 74.87                   |
| <i>For 300 LB Rating, Add</i>  | 615.62                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 4.06                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 33.69                     |                         |
| 23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....         | 640.53                    | 92.43                   |
| <i>For 300 LB Rating, Add</i>  | 1,212.92                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 8.03                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 41.58                     |                         |
| <b>23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)</b>                 |                           |                         |
| 23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow .....                     | 45.70                     | 20.87                   |
| <i>For 300 LB Rating, Add</i>  | 36.37                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.23                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 9.40                      |                         |
| 23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....                     | 48.53                     | 25.10                   |
| <i>For 300 LB Rating, Add</i>  | 28.49                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.17                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 11.28                     |                         |
| 23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow .....                     | 55.58                     | 28.06                   |
| <i>For 300 LB Rating, Add</i>  | 34.92                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.22                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.62                     |                         |
| 23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow .....                       | 63.99                     | 31.29                   |
| <i>For 300 LB Rating, Add</i>  | 43.62                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.27                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.10                     |                         |
| 23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow .....                   | 83.29                     | 35.53                   |
| <i>For 300 LB Rating, Add</i>  | 75.38                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.48                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 15.96                     |                         |
| 23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....                   | 97.20                     | 40.04                   |
| <i>For 300 LB Rating, Add</i>  | 92.90                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.60                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.00                     |                         |
| 23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow .....                       | 132.46                    | 50.89                   |
| <i>For 300 LB Rating, Add</i>  | 139.60                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 0.90                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 22.86                     |                         |
| 23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....                   | 275.59                    | 75.29                   |
| <i>For 300 LB Rating, Add</i>  | 397.49                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 2.60                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 33.84                     |                         |
| 23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow .....                       | 359.86                    | 98.97                   |
| <i>For 300 LB Rating, Add</i>  | 516.41                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 3.38                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 44.52                     |                         |
| 23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow .....                       | 560.39                    | 97.18                   |
| <i>For 300 LB Rating, Add</i>  | 1,003.93                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 6.63                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 43.72                     |                         |
| 23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow .....                       | 1,790.01                  | 101.43                  |
| <i>For 300 LB Rating, Add</i>  | 3,940.18                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 26.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 45.62                     |                         |
| 23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow .....                       | 1,834.77                  | 106.05                  |
| <i>For 300 LB Rating, Add</i>  | 4,031.43                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>   | 26.81                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 47.69                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 21 13 23-0079 Black Malleable Iron Tees</b> <small>(23 21 13 23-0014)</small>          |                           |                         |
| 23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee.....                              | 53.01                     | 25.80                   |
| For 300 LB Rating, Add   | 35.59                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.22                      |                         |
| For Work In Restricted Working Space, Add  | 11.75                     |                         |
| 23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee.....                              | 55.83                     | 31.29                   |
| For 300 LB Rating, Add   | 24.04                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.14                      |                         |
| For Work In Restricted Working Space, Add  | 14.10                     |                         |
| 23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....                              | 66.90                     | 36.23                   |
| For 300 LB Rating, Add   | 33.69                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.20                      |                         |
| For Work In Restricted Working Space, Add  | 16.27                     |                         |
| 23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....                                | 85.82                     | 42.72                   |
| For 300 LB Rating, Add   | 56.00                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.35                      |                         |
| For Work In Restricted Working Space, Add  | 19.23                     |                         |
| 23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....                            | 111.38                    | 50.89                   |
| For 300 LB Rating, Add   | 89.00                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.56                      |                         |
| For Work In Restricted Working Space, Add  | 22.86                     |                         |
| 23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....                            | 134.70                    | 60.63                   |
| For 300 LB Rating, Add   | 110.46                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.70                      |                         |
| For Work In Restricted Working Space, Add  | 27.29                     |                         |
| 23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....                                | 187.36                    | 75.29                   |
| For 300 LB Rating, Add   | 185.74                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 1.19                      |                         |
| For Work In Restricted Working Space, Add  | 33.84                     |                         |
| 23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....                            | 309.17                    | 98.97                   |
| For 300 LB Rating, Add   | 394.75                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 2.57                      |                         |
| For Work In Restricted Working Space, Add  | 44.52                     |                         |
| 23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....                                | 413.03                    | 117.58                  |
| For 300 LB Rating, Add   | 578.89                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 3.79                      |                         |
| For Work In Restricted Working Space, Add  | 52.87                     |                         |
| 23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....                                | 756.44                    | 122.79                  |
| For 300 LB Rating, Add   | 1,384.71                  |                         |
| For Standard Weight Cast Iron Fittings, Add  | 9.16                      |                         |
| For Work In Restricted Working Space, Add  | 55.22                     |                         |
| 23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....                                | 1,953.04                  | 145.77                  |
| For 300 LB Rating, Add   | 4,175.77                  |                         |
| For Standard Weight Cast Iron Fittings, Add  | 27.75                     |                         |
| For Work In Restricted Working Space, Add  | 65.58                     |                         |
| 23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....                                | 2,111.19                  | 166.63                  |
| For 300 LB Rating, Add   | 4,482.25                  |                         |
| For Standard Weight Cast Iron Fittings, Add  | 29.78                     |                         |
| For Work In Restricted Working Space, Add  | 74.95                     |                         |
| <b>23 21 13 23-0092 Black Malleable Iron Reducing Tees</b> <small>(23 21 13 23-0014)</small> |                           |                         |
| 23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....                     | 62.03                     | 31.29                   |
| For 300 LB Rating, Add   | 38.92                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.24                      |                         |
| For Work In Restricted Working Space, Add  | 14.10                     |                         |
| 23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....                     | 73.84                     | 36.23                   |
| For 300 LB Rating, Add   | 50.34                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.31                      |                         |
| For Work In Restricted Working Space, Add  | 16.27                     |                         |
| 23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....                       | 88.84                     | 42.72                   |
| For 300 LB Rating, Add   | 63.25                     |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.40                      |                         |
| For Work In Restricted Working Space, Add  | 19.23                     |                         |
| 23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....                   | 124.86                    | 50.89                   |
| For 300 LB Rating, Add   | 121.36                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.78                      |                         |
| For Work In Restricted Working Space, Add  | 22.86                     |                         |
| 23 21 13 23-0097 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Tee.....                   | 144.86                    | 60.63                   |
| For 300 LB Rating, Add   | 134.84                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 0.86                      |                         |
| For Work In Restricted Working Space, Add  | 27.29                     |                         |
| 23 21 13 23-0098 EA 2", 150 LB, Black Malleable Iron Reducing Tee.....                       | 191.05                    | 75.29                   |
| For 300 LB Rating, Add   | 194.59                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 1.25                      |                         |
| For Work In Restricted Working Space, Add  | 33.84                     |                         |
| 23 21 13 23-0099 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Tee.....                   | 392.26                    | 98.97                   |
| For 300 LB Rating, Add   | 594.17                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 3.90                      |                         |
| For Work In Restricted Working Space, Add  | 44.52                     |                         |
| 23 21 13 23-0100 EA 3", 150 LB, Black Malleable Iron Reducing Tee.....                       | 455.55                    | 117.58                  |
| For 300 LB Rating, Add   | 680.94                    |                         |
| For Standard Weight Cast Iron Fittings, Add  | 4.47                      |                         |
| For Work In Restricted Working Space, Add  | 52.87                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee.....                            | 861.48                    | 122.79                  |
| <i>For 300 LB Rating, Add</i>   | 1,636.80                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 10.84                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 55.22                     |                         |
| 23 21 13 23-0102 EA 5", 150 LB, Black Malleable Iron Reducing Tee.....                            | 1,789.82                  | 145.77                  |
| <i>For 300 LB Rating, Add</i>   | 3,784.04                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 25.14                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 65.58                     |                         |
| 23 21 13 23-0103 EA 6", 150 LB, Black Malleable Iron Reducing Tee.....                            | 2,031.96                  | 166.63                  |
| <i>For 300 LB Rating, Add</i>   | 4,292.10                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 28.51                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 74.95                     |                         |
| <b>23 21 13 23-0104 Black Malleable Iron Couplings</b> <small>(23 21 13 23-0014)</small>          |                           |                         |
| 23 21 13 23-0105 EA 3/8", 150 LB, Black Malleable Iron Coupling.....                              | 43.20                     | 20.87                   |
| <i>For 300 LB Rating, Add</i>   | 30.37                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.19                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 9.40                      |                         |
| 23 21 13 23-0106 EA 1/2", 150 LB, Black Malleable Iron Coupling.....                              | 46.74                     | 25.10                   |
| <i>For 300 LB Rating, Add</i>   | 24.19                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.15                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 11.28                     |                         |
| 23 21 13 23-0107 EA 3/4", 150 LB, Black Malleable Iron Coupling.....                              | 52.78                     | 28.06                   |
| <i>For 300 LB Rating, Add</i>   | 28.20                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.17                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 12.62                     |                         |
| 23 21 13 23-0108 EA 1", 150 LB, Black Malleable Iron Coupling.....                                | 63.02                     | 31.29                   |
| <i>For 300 LB Rating, Add</i>   | 41.29                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.26                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.10                     |                         |
| 23 21 13 23-0109 EA 1-1/4", 150 LB, Black Malleable Iron Coupling.....                            | 73.97                     | 35.53                   |
| <i>For 300 LB Rating, Add</i>   | 53.02                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.33                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 15.96                     |                         |
| 23 21 13 23-0110 EA 1-1/2", 150 LB, Black Malleable Iron Coupling.....                            | 88.04                     | 40.04                   |
| <i>For 300 LB Rating, Add</i>   | 70.92                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.45                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 18.00                     |                         |
| 23 21 13 23-0111 EA 2", 150 LB, Black Malleable Iron Coupling.....                                | 117.77                    | 50.89                   |
| <i>For 300 LB Rating, Add</i>   | 104.34                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.67                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 22.86                     |                         |
| 23 21 13 23-0112 EA 2-1/2", 150 LB, Black Malleable Iron Coupling.....                            | 227.50                    | 75.29                   |
| <i>For 300 LB Rating, Add</i>   | 282.07                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 1.84                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 33.84                     |                         |
| 23 21 13 23-0113 EA 3", 150 LB, Black Malleable Iron Coupling.....                                | 303.49                    | 98.97                   |
| <i>For 300 LB Rating, Add</i>   | 381.12                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 2.48                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 44.52                     |                         |
| 23 21 13 23-0114 EA 4", 150 LB, Black Malleable Iron Coupling.....                                | 458.07                    | 97.18                   |
| <i>For 300 LB Rating, Add</i>   | 758.36                    |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 5.00                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 43.72                     |                         |
| 23 21 13 23-0115 EA 5", 150 LB, Black Malleable Iron Coupling.....                                | 1,031.56                  | 101.43                  |
| <i>For 300 LB Rating, Add</i>   | 2,119.90                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 14.07                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 45.62                     |                         |
| 23 21 13 23-0116 EA 6", 150 LB, Black Malleable Iron Coupling.....                                | 1,160.94                  | 106.05                  |
| <i>For 300 LB Rating, Add</i>   | 2,414.24                  |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 16.03                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 47.69                     |                         |
| <b>23 21 13 23-0117 Black Malleable Iron Reducing Couplings</b> <small>(23 21 13 23-0014)</small> |                           |                         |
| 23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....                     | 48.95                     | 25.10                   |
| <i>For 300 LB Rating, Add</i>   | 29.50                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.18                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 11.28                     |                         |
| 23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....                     | 54.10                     | 28.06                   |
| <i>For 300 LB Rating, Add</i>   | 31.37                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.19                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 12.62                     |                         |
| 23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....                       | 65.70                     | 31.29                   |
| <i>For 300 LB Rating, Add</i>   | 47.72                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.30                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.10                     |                         |
| 23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....                   | 77.27                     | 35.53                   |
| <i>For 300 LB Rating, Add</i>   | 60.94                     |                         |
| <i>For Standard Weight Cast Iron Fittings, Add</i>  | 0.38                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 15.96                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 23 21 13 23-0122 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 90.39<br>76.56<br>0.49<br>18.00        | 40.04                   |
| 23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 120.25<br>110.29<br>0.70<br>22.86      | 50.89                   |
| 23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 242.98<br>319.22<br>2.08<br>33.84      | 75.29                   |
| 23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 306.66<br>388.73<br>2.53<br>44.52      | 98.97                   |
| 23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 462.95<br>770.07<br>5.08<br>43.72      | 97.18                   |
| 23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 865.08<br>1,720.35<br>11.41<br>45.62   | 101.43                  |
| 23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling.....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 1,074.77<br>2,207.43<br>14.65<br>47.69 | 106.05                  |
| <b>23 21 13 23-0129 Black Malleable Iron Caps</b> <small>(23 21 13 23-0014)</small>  |  |                         |
| 23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                | 23.60<br>17.07<br>0.11<br>5.07         | 11.14                   |
| 23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                | 27.97<br>22.83<br>0.14<br>5.68         | 12.55                   |
| 23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 32.10<br>27.55<br>0.18<br>6.35         | 13.96                   |
| 23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 38.36<br>36.04<br>0.23<br>7.18         | 15.79                   |
| 23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 46.82<br>49.19<br>0.32<br>8.10         | 17.77                   |
| 23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 63.23<br>71.51<br>0.46<br>10.29        | 22.70                   |
| 23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 117.15<br>162.41<br>1.06<br>15.23      | 33.56                   |
| 23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 164.69<br>238.99<br>1.57<br>20.03      | 44.12                   |
| 23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 233.48<br>406.89<br>2.69<br>19.67      | 43.34                   |
| 23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 468.60<br>964.51<br>6.40<br>20.53      | 45.21                   |
| 23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap .....<br><i>For 300 LB Rating, Add</i><br><i>For Standard Weight Cast Iron Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                  | 805.08<br>1,764.79<br>11.74<br>21.46   | 47.22                   |
| <b>23 21 13 23-0141 Black Malleable Iron Unions</b> <small>(23 21 13 23-0014)</small>  |  |                         |
| 23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union.....<br><i>For Work In Restricted Working Space, Add</i>  | 63.39<br>9.40                          | 20.87                   |
| 23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union.....<br><i>For Work In Restricted Working Space, Add</i>  | 76.00<br>14.10                         | 31.29                   |
| 23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union.....<br><i>For Work In Restricted Working Space, Add</i>  | 87.57<br>16.27                         | 36.23                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union.....               | 107.57                    | 42.72                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 19.23                     |                         |
| 23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union .....          | 138.56                    | 50.89                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 22.86                     |                         |
| 23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union .....          | 168.69                    | 60.63                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 27.29                     |                         |
| 23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union.....               | 203.19                    | 75.29                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 33.84                     |                         |
| 23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union .....          | 435.82                    | 110.96                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 49.95                     |                         |
| 23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union.....               | 543.30                    | 145.92                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 65.72                     |                         |
| 23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union.....             | 73.69                     | 20.87                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 9.40                      |                         |
| 23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union.....             | 95.60                     | 31.29                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 14.10                     |                         |
| 23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union.....             | 102.04                    | 36.23                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 16.27                     |                         |
| 23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union.....               | 122.75                    | 42.72                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 19.22                     |                         |
| 23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union .....          | 174.63                    | 50.89                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 22.86                     |                         |
| 23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union .....          | 204.28                    | 60.63                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 27.29                     |                         |
| 23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union.....               | 258.17                    | 75.29                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 33.84                     |                         |
| 23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union .....          | 622.19                    | 110.96                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 49.95                     |                         |
| 23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union.....               | 752.38                    | 145.92                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 65.72                     |                         |
| 23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union.....               | 1,160.43                  | 143.41                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 64.54                     |                         |
| 23 21 13 23-0161 EA 3/8", 300 LB, Black Malleable Iron Union.....             | 100.07                    | 20.87                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 9.40                      |                         |
| 23 21 13 23-0162 EA 1/2", 300 LB, Black Malleable Iron Union.....             | 102.61                    | 31.29                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 14.10                     |                         |
| 23 21 13 23-0163 EA 3/4", 300 LB, Black Malleable Iron Union.....             | 115.81                    | 36.23                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 16.27                     |                         |
| 23 21 13 23-0164 EA 1", 300 LB, Black Malleable Iron Union.....               | 144.50                    | 42.72                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 19.22                     |                         |
| 23 21 13 23-0165 EA 1-1/4", 300 LB, Black Malleable Iron Union .....          | 207.36                    | 50.89                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 22.86                     |                         |
| 23 21 13 23-0166 EA 1-1/2", 300 LB, Black Malleable Iron Union .....          | 228.31                    | 60.63                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 27.29                     |                         |
| 23 21 13 23-0167 EA 2", 300 LB, Black Malleable Iron Union.....               | 282.92                    | 75.29                   |
| <i>For Work In Restricted Working Space, Add</i>                              | 33.84                     |                         |
| 23 21 13 23-0168 EA 2-1/2", 300 LB, Black Malleable Iron Union .....          | 715.02                    | 110.96                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 49.95                     |                         |
| 23 21 13 23-0169 EA 3", 300 LB, Black Malleable Iron Union.....               | 928.68                    | 145.92                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 65.72                     |                         |
| 23 21 13 23-0170 EA 4", 300 LB, Black Malleable Iron Union.....               | 2,467.37                  | 143.41                  |
| <i>For Work In Restricted Working Space, Add</i>                              | 64.54                     |                         |
| <b>23 21 13 23-0171 Black Steel Nipples</b> <small>(23 21 13 23-0014)</small> |                           |                         |
| 23 21 13 23-0172 EA 3/8" x Close, Schedule 40 Black Steel Nipple.....         | 25.04                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>   | 2.45                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 6.04                      |                         |
| 23 21 13 23-0173 EA 1/2" x Close, Schedule 40 Black Steel Nipple.....         | 24.27                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>   | 2.07                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 6.04                      |                         |
| 23 21 13 23-0174 EA 3/4" x Close, Schedule 40 Black Steel Nipple.....         | 24.89                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>   | 2.38                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 6.04                      |                         |
| 23 21 13 23-0175 EA 1" x Close, Schedule 40 Black Steel Nipple.....           | 28.58                     | 14.52                   |
| <i>For Schedule 80 Nipples, Add</i>   | 3.45                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 6.51                      |                         |
| 23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple .....      | 32.23                     | 15.65                   |
| <i>For Schedule 80 Nipples, Add</i>   | 4.37                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 7.05                      |                         |
| 23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple .....      | 34.37                     | 15.65                   |
| <i>For Schedule 80 Nipples, Add</i>   | 5.44                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 7.05                      |                         |
| 23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....           | 45.12                     | 20.16                   |
| <i>For Schedule 80 Nipples, Add</i>   | 7.40                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 9.10                      |                         |
| 23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple .....      | 83.94                     | 25.10                   |
| <i>For Schedule 80 Nipples, Add</i>   | 23.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 11.28                     |                         |
| 23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....           | 100.54                    | 30.31                   |
| <i>For Schedule 80 Nipples, Add</i>   | 27.53                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 13.64                     |                         |
| 23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....           | 132.89                    | 33.35                   |
| <i>For Schedule 80 Nipples, Add</i>   | 41.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                              | 14.99                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------|------------|-----|--|---------------------------|-------------------------|
| 23 21 | 13 23-0182 | EA  | 3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple .....   | 25.70                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.78                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0183 | EA  | 1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....    | 24.27                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.07                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0184 | EA  | 3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....    | 25.24                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.55                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0185 | EA  | 3/8" x 2" Long, Schedule 40 Black Steel Nipple.....        | 25.70                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.78                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0186 | EA  | 1/2" x 2" Long, Schedule 40 Black Steel Nipple.....        | 24.27                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.07                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0187 | EA  | 3/4" x 2" Long, Schedule 40 Black Steel Nipple.....        | 25.24                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.55                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0188 | EA  | 1" x 2" Long, Schedule 40 Black Steel Nipple.....          | 29.24                     | 14.52                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 3.78                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.51                      |                         |
| 23 21 | 13 23-0189 | EA  | 1-1/4" x 2" Long, Schedule 40 Black Steel Nipple .....     | 33.40                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 4.95                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 7.05                      |                         |
| 23 21 | 13 23-0190 | EA  | 1-1/2" x 2" Long, Schedule 40 Black Steel Nipple .....     | 35.24                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 5.87                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 7.05                      |                         |
| 23 21 | 13 23-0191 | EA  | 3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....   | 27.28                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 3.57                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0192 | EA  | 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....    | 25.04                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.45                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0193 | EA  | 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....    | 25.91                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.89                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0194 | EA  | 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....     | 29.70                     | 14.52                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 4.01                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.51                      |                         |
| 23 21 | 13 23-0195 | EA  | 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple ..... | 34.01                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 5.26                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 7.05                      |                         |
| 23 21 | 13 23-0196 | EA  | 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple ..... | 36.61                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 6.56                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 7.05                      |                         |
| 23 21 | 13 23-0197 | EA  | 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....     | 47.31                     | 20.16                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 8.50                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 9.10                      |                         |
| 23 21 | 13 23-0198 | EA  | 3/8" x 3" Long, Schedule 40 Black Steel Nipple.....        | 27.28                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 3.57                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0199 | EA  | 1/2" x 3" Long, Schedule 40 Black Steel Nipple.....        | 25.04                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.45                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0200 | EA  | 3/4" x 3" Long, Schedule 40 Black Steel Nipple.....        | 25.91                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.89                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0201 | EA  | 1" x 3" Long, Schedule 40 Black Steel Nipple.....          | 29.70                     | 14.52                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 4.01                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.51                      |                         |
| 23 21 | 13 23-0202 | EA  | 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple .....     | 34.01                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 5.26                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 7.05                      |                         |
| 23 21 | 13 23-0203 | EA  | 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple .....     | 36.61                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 6.56                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 7.05                      |                         |
| 23 21 | 13 23-0204 | EA  | 2" x 3" Long, Schedule 40 Black Steel Nipple.....          | 47.31                     | 20.16                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 8.50                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 9.10                      |                         |
| 23 21 | 13 23-0205 | EA  | 2-1/2" x 3" Long, Schedule 40 Black Steel Nipple .....     | 85.16                     | 25.10                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 23.78                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 11.28                     |                         |
| 23 21 | 13 23-0206 | EA  | 3" x 3" Long, Schedule 40 Black Steel Nipple.....          | 105.34                    | 30.31                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 29.93                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 13.64                     |                         |
| 23 21 | 13 23-0207 | EA  | 3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....   | 28.56                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 4.21                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0208 | EA  | 1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....    | 26.01                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 2.94                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |
| 23 21 | 13 23-0209 | EA  | 3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....    | 27.28                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                        | 3.57                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>           | 6.04                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....     | 31.59                     | 14.52                   |
| For Schedule 80 Nipples, Add   | 4.95                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.51                      |                         |
| 23 21 13 23-0211 EA 1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple ..... | 35.95                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 6.23                      |                         |
| For Work In Restricted Working Space, Add                                      | 7.05                      |                         |
| 23 21 13 23-0212 EA 1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple ..... | 38.20                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 7.35                      |                         |
| For Work In Restricted Working Space, Add                                      | 7.05                      |                         |
| 23 21 13 23-0213 EA 2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....     | 50.89                     | 20.16                   |
| For Schedule 80 Nipples, Add   | 10.29                     |                         |
| For Work In Restricted Working Space, Add                                      | 9.10                      |                         |
| 23 21 13 23-0214 EA 2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple ..... | 93.53                     | 25.10                   |
| For Schedule 80 Nipples, Add   | 27.97                     |                         |
| For Work In Restricted Working Space, Add                                      | 11.28                     |                         |
| 23 21 13 23-0215 EA 3" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....     | 116.36                    | 30.31                   |
| For Schedule 80 Nipples, Add   | 35.44                     |                         |
| For Work In Restricted Working Space, Add                                      | 13.64                     |                         |
| 23 21 13 23-0216 EA 3/8" x 4" Long, Schedule 40 Black Steel Nipple.....        | 28.56                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 4.21                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0217 EA 1/2" x 4" Long, Schedule 40 Black Steel Nipple.....        | 26.01                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 2.94                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0218 EA 3/4" x 4" Long, Schedule 40 Black Steel Nipple.....        | 27.28                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 3.57                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0219 EA 1" x 4" Long, Schedule 40 Black Steel Nipple.....          | 31.59                     | 14.52                   |
| For Schedule 80 Nipples, Add   | 4.95                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.51                      |                         |
| 23 21 13 23-0220 EA 1-1/4" x 4" Long, Schedule 40 Black Steel Nipple .....     | 35.95                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 6.23                      |                         |
| For Work In Restricted Working Space, Add                                      | 7.05                      |                         |
| 23 21 13 23-0221 EA 1-1/2" x 4" Long, Schedule 40 Black Steel Nipple .....     | 38.20                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 7.35                      |                         |
| For Work In Restricted Working Space, Add                                      | 7.05                      |                         |
| 23 21 13 23-0222 EA 2" x 4" Long, Schedule 40 Black Steel Nipple.....          | 50.89                     | 20.16                   |
| For Schedule 80 Nipples, Add   | 10.29                     |                         |
| For Work In Restricted Working Space, Add                                      | 9.10                      |                         |
| 23 21 13 23-0223 EA 2-1/2" x 4" Long, Schedule 40 Black Steel Nipple .....     | 93.53                     | 25.10                   |
| For Schedule 80 Nipples, Add   | 27.97                     |                         |
| For Work In Restricted Working Space, Add                                      | 11.28                     |                         |
| 23 21 13 23-0224 EA 3" x 4" Long, Schedule 40 Black Steel Nipple.....          | 116.36                    | 30.31                   |
| For Schedule 80 Nipples, Add   | 35.44                     |                         |
| For Work In Restricted Working Space, Add                                      | 13.64                     |                         |
| 23 21 13 23-0225 EA 4" x 4" Long, Schedule 40 Black Steel Nipple.....          | 145.91                    | 33.35                   |
| For Schedule 80 Nipples, Add   | 47.97                     |                         |
| For Work In Restricted Working Space, Add                                      | 14.99                     |                         |
| 23 21 13 23-0226 EA 3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....   | 32.29                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 6.08                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0227 EA 1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....   | 27.03                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 3.45                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0228 EA 3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....   | 29.12                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 4.49                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0229 EA 1" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....     | 33.43                     | 14.52                   |
| For Schedule 80 Nipples, Add   | 5.87                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.51                      |                         |
| 23 21 13 23-0230 EA 1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple ..... | 38.40                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 7.45                      |                         |
| For Work In Restricted Working Space, Add                                      | 7.05                      |                         |
| 23 21 13 23-0231 EA 1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple ..... | 41.46                     | 15.65                   |
| For Schedule 80 Nipples, Add   | 8.98                      |                         |
| For Work In Restricted Working Space, Add                                      | 7.05                      |                         |
| 23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....     | 54.00                     | 20.16                   |
| For Schedule 80 Nipples, Add   | 11.84                     |                         |
| For Work In Restricted Working Space, Add                                      | 9.10                      |                         |
| 23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple ..... | 99.04                     | 25.10                   |
| For Schedule 80 Nipples, Add   | 30.72                     |                         |
| For Work In Restricted Working Space, Add                                      | 11.28                     |                         |
| 23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....     | 123.66                    | 30.31                   |
| For Schedule 80 Nipples, Add   | 39.09                     |                         |
| For Work In Restricted Working Space, Add                                      | 13.64                     |                         |
| 23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....     | 159.58                    | 33.35                   |
| For Schedule 80 Nipples, Add   | 54.81                     |                         |
| For Work In Restricted Working Space, Add                                      | 14.99                     |                         |
| 23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....        | 32.29                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 6.08                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |
| 23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....        | 27.03                     | 13.39                   |
| For Schedule 80 Nipples, Add   | 3.45                      |                         |
| For Work In Restricted Working Space, Add                                      | 6.04                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------|------------|-----|---|---------------------------|-------------------------|
| 23 21 | 13 23-0238 | EA  | 3/4" x 5" Long, Schedule 40 Black Steel Nipple.....   | 29.12                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 4.49                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0239 | EA  | 1" x 5" Long, Schedule 40 Black Steel Nipple.....     | 33.43                     | 14.52                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 5.87                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.51                      |                         |
| 23 21 | 13 23-0240 | EA  | 1-1/4" x 5" Long, Schedule 40 Black Steel Nipple..... | 38.40                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 7.45                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 7.05                      |                         |
| 23 21 | 13 23-0241 | EA  | 1-1/2" x 5" Long, Schedule 40 Black Steel Nipple..... | 41.46                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 8.98                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 7.05                      |                         |
| 23 21 | 13 23-0242 | EA  | 2" x 5" Long, Schedule 40 Black Steel Nipple.....     | 54.00                     | 20.16                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 11.84                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 9.10                      |                         |
| 23 21 | 13 23-0243 | EA  | 2-1/2" x 5" Long, Schedule 40 Black Steel Nipple..... | 99.04                     | 25.10                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 30.72                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 11.28                     |                         |
| 23 21 | 13 23-0244 | EA  | 3" x 5" Long, Schedule 40 Black Steel Nipple.....     | 123.66                    | 30.31                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 39.09                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 13.64                     |                         |
| 23 21 | 13 23-0245 | EA  | 4" x 5" Long, Schedule 40 Black Steel Nipple.....     | 159.58                    | 33.35                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 54.81                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 14.99                     |                         |
| 23 21 | 13 23-0246 | EA  | 3/8" x 6" Long, Schedule 40 Black Steel Nipple.....   | 33.66                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 6.76                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0247 | EA  | 1/2" x 6" Long, Schedule 40 Black Steel Nipple.....   | 27.85                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 3.86                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0248 | EA  | 3/4" x 6" Long, Schedule 40 Black Steel Nipple.....   | 30.35                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 5.11                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0249 | EA  | 1" x 6" Long, Schedule 40 Black Steel Nipple.....     | 35.57                     | 14.52                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 6.94                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.51                      |                         |
| 23 21 | 13 23-0250 | EA  | 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple..... | 41.16                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 8.83                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 7.05                      |                         |
| 23 21 | 13 23-0251 | EA  | 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple..... | 44.12                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 10.31                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 7.05                      |                         |
| 23 21 | 13 23-0252 | EA  | 2" x 6" Long, Schedule 40 Black Steel Nipple.....     | 58.08                     | 20.16                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 13.88                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 9.10                      |                         |
| 23 21 | 13 23-0253 | EA  | 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple..... | 101.64                    | 25.10                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 32.02                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 11.28                     |                         |
| 23 21 | 13 23-0254 | EA  | 3" x 6" Long, Schedule 40 Black Steel Nipple.....     | 130.45                    | 30.31                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 42.49                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 13.64                     |                         |
| 23 21 | 13 23-0255 | EA  | 4" x 6" Long, Schedule 40 Black Steel Nipple.....     | 167.14                    | 33.35                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 58.59                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 14.99                     |                         |
| 23 21 | 13 23-0256 | EA  | 3/8" x 8" Long, Schedule 40 Black Steel Nipple.....   | 43.87                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 11.87                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0257 | EA  | 1/2" x 8" Long, Schedule 40 Black Steel Nipple.....   | 34.02                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 6.94                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0258 | EA  | 3/4" x 8" Long, Schedule 40 Black Steel Nipple.....   | 37.13                     | 13.39                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 8.50                      |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.04                      |                         |
| 23 21 | 13 23-0259 | EA  | 1" x 8" Long, Schedule 40 Black Steel Nipple.....     | 44.40                     | 14.52                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 11.36                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 6.51                      |                         |
| 23 21 | 13 23-0260 | EA  | 1-1/4" x 8" Long, Schedule 40 Black Steel Nipple..... | 52.03                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 14.27                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 7.05                      |                         |
| 23 21 | 13 23-0261 | EA  | 1-1/2" x 8" Long, Schedule 40 Black Steel Nipple..... | 56.21                     | 15.65                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 16.36                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 7.05                      |                         |
| 23 21 | 13 23-0262 | EA  | 2" x 8" Long, Schedule 40 Black Steel Nipple.....     | 76.86                     | 20.16                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 23.27                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 9.10                      |                         |
| 23 21 | 13 23-0263 | EA  | 2-1/2" x 8" Long, Schedule 40 Black Steel Nipple..... | 119.10                    | 25.10                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 40.75                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 11.28                     |                         |
| 23 21 | 13 23-0264 | EA  | 3" x 8" Long, Schedule 40 Black Steel Nipple.....     | 160.09                    | 30.31                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 57.31                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 13.64                     |                         |
| 23 21 | 13 23-0265 | EA  | 4" x 8" Long, Schedule 40 Black Steel Nipple.....     | 185.20                    | 33.35                   |
|       |            |     | <i>For Schedule 80 Nipples, Add</i>                   | 67.62                     |                         |
|       |            |     | <i>For Work In Restricted Working Space, Add</i>      | 14.99                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple.....     | 46.78                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>  | 13.32                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.04                      |                         |
| 23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple.....     | 36.83                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>  | 8.35                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.04                      |                         |
| 23 21 13 23-0268 EA 3/4" x 10" Long, Schedule 40 Black Steel Nipple.....     | 39.89                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>  | 9.88                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.04                      |                         |
| 23 21 13 23-0269 EA 1" x 10" Long, Schedule 40 Black Steel Nipple.....       | 48.23                     | 14.52                   |
| <i>For Schedule 80 Nipples, Add</i>  | 13.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.51                      |                         |
| 23 21 13 23-0270 EA 1-1/4" x 10" Long, Schedule 40 Black Steel Nipple.....   | 57.69                     | 15.65                   |
| <i>For Schedule 80 Nipples, Add</i>  | 17.10                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 7.05                      |                         |
| 23 21 13 23-0271 EA 1-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....   | 61.77                     | 15.65                   |
| <i>For Schedule 80 Nipples, Add</i>  | 19.14                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 7.05                      |                         |
| 23 21 13 23-0272 EA 2" x 10" Long, Schedule 40 Black Steel Nipple.....       | 85.02                     | 20.16                   |
| <i>For Schedule 80 Nipples, Add</i>  | 27.35                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 9.10                      |                         |
| 23 21 13 23-0273 EA 2-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....   | 129.15                    | 25.10                   |
| <i>For Schedule 80 Nipples, Add</i>  | 45.78                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 11.28                     |                         |
| 23 21 13 23-0274 EA 3" x 10" Long, Schedule 40 Black Steel Nipple.....       | 174.23                    | 30.31                   |
| <i>For Schedule 80 Nipples, Add</i>  | 64.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.64                     |                         |
| 23 21 13 23-0275 EA 4" x 10" Long, Schedule 40 Black Steel Nipple.....       | 203.98                    | 33.35                   |
| <i>For Schedule 80 Nipples, Add</i>  | 77.01                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 14.99                     |                         |
| 23 21 13 23-0276 EA 3/8" x 12" Long, Schedule 40 Black Steel Nipple.....     | 50.45                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>  | 15.16                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.04                      |                         |
| 23 21 13 23-0277 EA 1/2" x 12" Long, Schedule 40 Black Steel Nipple.....     | 39.94                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>  | 9.90                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.04                      |                         |
| 23 21 13 23-0278 EA 3/4" x 12" Long, Schedule 40 Black Steel Nipple.....     | 42.08                     | 13.39                   |
| <i>For Schedule 80 Nipples, Add</i>  | 10.97                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.04                      |                         |
| 23 21 13 23-0279 EA 1" x 12" Long, Schedule 40 Black Steel Nipple.....       | 52.16                     | 14.52                   |
| <i>For Schedule 80 Nipples, Add</i>  | 15.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.51                      |                         |
| 23 21 13 23-0280 EA 1-1/4" x 12" Long, Schedule 40 Black Steel Nipple.....   | 62.28                     | 15.65                   |
| <i>For Schedule 80 Nipples, Add</i>  | 19.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 7.05                      |                         |
| 23 21 13 23-0281 EA 1-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....   | 67.59                     | 15.65                   |
| <i>For Schedule 80 Nipples, Add</i>  | 22.05                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 7.05                      |                         |
| 23 21 13 23-0282 EA 2" x 12" Long, Schedule 40 Black Steel Nipple.....       | 93.29                     | 20.16                   |
| <i>For Schedule 80 Nipples, Add</i>  | 31.49                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 9.10                      |                         |
| 23 21 13 23-0283 EA 2-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....   | 139.46                    | 25.10                   |
| <i>For Schedule 80 Nipples, Add</i>  | 50.93                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 11.28                     |                         |
| 23 21 13 23-0284 EA 3" x 12" Long, Schedule 40 Black Steel Nipple.....       | 188.37                    | 30.31                   |
| <i>For Schedule 80 Nipples, Add</i>  | 71.45                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.64                     |                         |
| 23 21 13 23-0285 EA 4" x 12" Long, Schedule 40 Black Steel Nipple.....       | 230.52                    | 33.35                   |
| <i>For Schedule 80 Nipples, Add</i>  | 90.28                     |                         |
| <i>For Work In Restricted Working Space, Add</i>                             | 14.99                     |                         |
| <b>23 21 13 23-0286 Black Malleable Iron Bushing (23 21 13 23-0014)</b>      |                           |                         |
| 23 21 13 23-0287 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....   | 44.61                     | 22.98                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 10.34                     |                         |
| 23 21 13 23-0288 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....   | 51.67                     | 24.67                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 11.11                     |                         |
| 23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....   | 54.48                     | 26.51                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 11.95                     |                         |
| 23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing.....     | 59.67                     | 26.37                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 11.84                     |                         |
| 23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing.....     | 57.38                     | 28.20                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 12.69                     |                         |
| 23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing.....     | 59.63                     | 29.74                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.36                     |                         |
| 23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... | 65.22                     | 28.34                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 12.77                     |                         |
| 23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... | 67.02                     | 30.31                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.62                     |                         |
| 23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing..... | 67.10                     | 31.72                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 14.29                     |                         |
| 23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing.....   | 69.56                     | 33.42                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 15.03                     |                         |
| 23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... | 75.85                     | 30.73                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.79                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....                     | 73.42                     | 32.57                   |
| <i>For Work In Restricted Working Space, Add</i>   | 14.64                     |                         |
| 23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....                     | 75.66                     | 33.98                   |
| <i>For Work In Restricted Working Space, Add</i>   | 15.31                     |                         |
| 23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....                       | 75.12                     | 35.67                   |
| <i>For Work In Restricted Working Space, Add</i>   | 16.05                     |                         |
| 23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....                   | 81.29                     | 37.78                   |
| <i>For Work In Restricted Working Space, Add</i>   | 16.98                     |                         |
| 23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing.....                         | 96.27                     | 36.09                   |
| <i>For Work In Restricted Working Space, Add</i>   | 16.22                     |                         |
| 23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing.....                         | 94.09                     | 37.92                   |
| <i>For Work In Restricted Working Space, Add</i>   | 17.07                     |                         |
| 23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing.....                         | 90.60                     | 39.48                   |
| <i>For Work In Restricted Working Space, Add</i>   | 17.74                     |                         |
| 23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing.....                           | 91.07                     | 41.03                   |
| <i>For Work In Restricted Working Space, Add</i>   | 18.48                     |                         |
| 23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....                       | 94.18                     | 43.14                   |
| <i>For Work In Restricted Working Space, Add</i>   | 19.41                     |                         |
| 23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....                       | 100.90                    | 45.39                   |
| <i>For Work In Restricted Working Space, Add</i>   | 20.43                     |                         |
| 23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....                     | 131.00                    | 51.60                   |
| <i>For Work In Restricted Working Space, Add</i>   | 23.23                     |                         |
| 23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....                       | 133.45                    | 53.30                   |
| <i>For Work In Restricted Working Space, Add</i>   | 23.97                     |                         |
| 23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....                   | 136.56                    | 55.27                   |
| <i>For Work In Restricted Working Space, Add</i>   | 24.90                     |                         |
| 23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....                   | 136.29                    | 57.66                   |
| <i>For Work In Restricted Working Space, Add</i>   | 25.92                     |                         |
| 23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing.....                       | 144.00                    | 63.02                   |
| <i>For Work In Restricted Working Space, Add</i>   | 28.35                     |                         |
| 23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing.....                         | 169.33                    | 63.44                   |
| <i>For Work In Restricted Working Space, Add</i>   | 28.58                     |                         |
| 23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing.....                           | 171.78                    | 65.13                   |
| <i>For Work In Restricted Working Space, Add</i>   | 29.31                     |                         |
| 23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....                       | 174.88                    | 67.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 30.24                     |                         |
| 23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....                       | 176.84                    | 69.51                   |
| <i>For Work In Restricted Working Space, Add</i>   | 31.26                     |                         |
| 23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing.....                           | 180.18                    | 74.87                   |
| <i>For Work In Restricted Working Space, Add</i>   | 33.69                     |                         |
| 23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....                       | 199.49                    | 87.12                   |
| <i>For Work In Restricted Working Space, Add</i>   | 39.18                     |                         |
| 23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing.....                         | 233.61                    | 60.96                   |
| <i>For Work In Restricted Working Space, Add</i>   | 27.46                     |                         |
| 23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing.....                           | 235.77                    | 62.46                   |
| <i>For Work In Restricted Working Space, Add</i>   | 28.10                     |                         |
| 23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....                       | 238.52                    | 64.33                   |
| <i>For Work In Restricted Working Space, Add</i>   | 28.93                     |                         |
| 23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....                       | 241.53                    | 66.33                   |
| <i>For Work In Restricted Working Space, Add</i>   | 29.83                     |                         |
| 23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing.....                           | 241.09                    | 71.08                   |
| <i>For Work In Restricted Working Space, Add</i>   | 31.99                     |                         |
| 23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....                       | 257.29                    | 81.94                   |
| <i>For Work In Restricted Working Space, Add</i>   | 36.85                     |                         |
| 23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing.....                           | 273.07                    | 92.43                   |
| <i>For Work In Restricted Working Space, Add</i>   | 41.58                     |                         |
| <b>23 21 13 23-0326 Black Malleable Iron Square Head Plugs</b> <small>(23 21 13 23-0014)</small> |                           |                         |
| 23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug.....                     | 20.28                     | 8.32                    |
| <i>For Work In Restricted Working Space, Add</i>   | 3.76                      |                         |
| 23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug.....                     | 23.31                     | 10.01                   |
| <i>For Work In Restricted Working Space, Add</i>   | 4.51                      |                         |
| 23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug.....                     | 25.10                     | 11.28                   |
| <i>For Work In Restricted Working Space, Add</i>   | 5.05                      |                         |
| 23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug.....                       | 29.20                     | 12.55                   |
| <i>For Work In Restricted Working Space, Add</i>   | 5.64                      |                         |
| 23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug.....                   | 34.39                     | 14.24                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.38                      |                         |
| 23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug.....                   | 42.27                     | 15.93                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.20                      |                         |
| 23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug.....                       | 56.47                     | 20.30                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.14                      |                         |
| 23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug.....                   | 92.41                     | 30.03                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.53                     |                         |
| 23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug.....                       | 124.31                    | 39.62                   |
| <i>For Work In Restricted Working Space, Add</i>   | 17.81                     |                         |
| 23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug.....                       | 194.50                    | 38.85                   |
| <i>For Work In Restricted Working Space, Add</i>   | 17.49                     |                         |
| 23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug.....                       | 353.40                    | 40.59                   |
| <i>For Work In Restricted Working Space, Add</i>   | 18.25                     |                         |
| 23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug.....                       | 425.99                    | 42.35                   |
| <i>For Work In Restricted Working Space, Add</i>   | 19.08                     |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 23 21 13 23-0339 |       |     |     | <b>125 LB Black Cast Iron Screwed Flanges</b> <small>(23 21 13 23-0014)</small><br>Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.  |                        |                      |
| 23 21 13 23-0340 | EA    |     |     | 3/4", 125 LB, Black Cast Iron Flange.....   | 232.89                 | 56.93                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 25.38                  |                      |
| 23 21 13 23-0341 | EA    |     |     | 1", 125 LB, Black Cast Iron Flange.....   | 189.90                 | 63.72                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 28.67                  |                      |
| 23 21 13 23-0342 | EA    |     |     | 1-1/4", 125 LB, Black Cast Iron Flange.....   | 211.77                 | 65.98                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 29.68                  |                      |
| 23 21 13 23-0343 | EA    |     |     | 1-1/2", 125 LB, Black Cast Iron Flange.....   | 211.90                 | 71.76                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 32.29                  |                      |
| 23 21 13 23-0344 | EA    |     |     | 2", 125 LB, Black Cast Iron Flange.....   | 216.39                 | 74.87                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 33.70                  |                      |
| 23 21 13 23-0345 | EA    |     |     | 2-1/2", 125 LB, Black Cast Iron Flange.....   | 251.66                 | 86.70                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 38.97                  |                      |
| 23 21 13 23-0346 | EA    |     |     | 3", 125 LB, Black Cast Iron Flange.....   | 321.72                 | 109.97               |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 49.47                  |                      |
| 23 21 13 23-0347 | EA    |     |     | 4", 125 LB, Black Cast Iron Flange.....   | 411.23                 | 133.29               |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 59.96                  |                      |
| 23 21 13 23-0348 | EA    |     |     | 5", 125 LB, Black Cast Iron Flange.....   | 536.50                 | 158.77               |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 71.38                  |                      |
| 23 21 13 23-0349 | EA    |     |     | 6", 125 LB, Black Cast Iron Flange.....   | 611.06                 | 182.25               |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 81.98                  |                      |
| 23 21 13 23-0350 |       |     |     | <b>150 LB, Black Malleable Iron Flanges</b> <small>(23 21 13 23-0014)</small><br>Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.  |                        |                      |
| 23 21 13 23-0351 | EA    |     |     | 1/2", 150 LB, Black Malleable Iron Flange.....  | 110.05                 | 51.46                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 23.18                  |                      |
| 23 21 13 23-0352 | EA    |     |     | 3/4", 150 LB, Black Malleable Iron Flange.....  | 119.94                 | 56.39                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 25.38                  |                      |
| 23 21 13 23-0353 | EA    |     |     | 1", 150 LB, Black Malleable Iron Flange.....  | 141.50                 | 63.72                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 28.67                  |                      |
| 23 21 13 23-0354 | EA    |     |     | 1-1/4", 150 LB, Black Malleable Iron Flange.....  | 148.02                 | 65.98                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 29.68                  |                      |
| 23 21 13 23-0355 | EA    |     |     | 1-1/2", 150 LB, Black Malleable Iron Flange.....  | 161.18                 | 71.76                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 32.29                  |                      |
| 23 21 13 23-0356 | EA    |     |     | 2", 150 LB, Black Malleable Iron Flange.....  | 182.18                 | 74.87                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 33.69                  |                      |
| 23 21 13 23-0357 | EA    |     |     | 2-1/2", 150 LB, Black Malleable Iron Flange.....  | 239.47                 | 86.70                |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 38.97                  |                      |
| 23 21 13 23-0358 | EA    |     |     | 3", 150 LB, Black Malleable Iron Flange.....  | 303.32                 | 109.97               |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 49.46                  |                      |
| 23 21 13 23-0359 | EA    |     |     | 4", 150 LB, Black Malleable Iron Flange.....  | 435.02                 | 133.29               |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 59.95                  |                      |
| 23 21 13 23-0360 |       |     |     | <b>Cut And Thread Existing In-Place Black Steel Pipe</b> <small>(23 21 13 23-0014)</small><br>Note: For use when connecting pipe to an existing in-place system.  |                        |                      |
| 23 21 13 23-0361 | EA    |     |     | 1/2", Cut And Thread Existing In Place Black Steel Pipe.....  | 45.94                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 13.78                  |                      |
| 23 21 13 23-0362 | EA    |     |     | 3/4", Cut And Thread Existing In Place Black Steel Pipe.....  | 50.53                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 15.16                  |                      |
| 23 21 13 23-0363 | EA    |     |     | 1", Cut And Thread Existing In Place Black Steel Pipe.....  | 55.13                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.54                  |                      |
| 23 21 13 23-0364 | EA    |     |     | 1-1/4", Cut And Thread Existing In Place Black Steel Pipe.....  | 59.72                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 17.92                  |                      |
| 23 21 13 23-0365 | EA    |     |     | 1-1/2", Cut And Thread Existing In Place Black Steel Pipe.....  | 62.79                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 18.84                  |                      |
| 23 21 13 23-0366 | EA    |     |     | 2", Cut And Thread Existing In Place Black Steel Pipe.....  | 65.84                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 19.75                  |                      |
| 23 21 13 23-0367 | EA    |     |     | 2-1/2", Cut And Thread Existing In Place Black Steel Pipe.....  | 68.91                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 20.67                  |                      |
| 23 21 13 23-0368 | EA    |     |     | 3", Cut And Thread Existing In Place Black Steel Pipe.....  | 71.97                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 21.59                  |                      |
| 23 21 13 23-0369 | EA    |     |     | 4", Cut And Thread Existing In Place Black Steel Pipe.....  | 75.03                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 22.51                  |                      |
| 23 21 13 23-0370 | EA    |     |     | 6", Cut And Thread Existing In Place Black Steel Pipe.....  | 81.16                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 24.35                  |                      |
| 23 21 13 23-0371 | EA    |     |     | 8", Cut And Thread Existing In Place Black Steel Pipe.....  | 87.28                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.18                  |                      |
| 23 21 13 23-0372 | EA    |     |     | 10", Cut And Thread Existing In Place Black Steel Pipe.....   | 94.94                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 28.48                  |                      |
| 23 21 13 23-0373 | EA    |     |     | 12", Cut And Thread Existing In Place Black Steel Pipe.....   | 101.06                 |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 30.32                  |                      |
| 23 21 13 23-0374 |       |     |     | <b>Welded Black Steel Pipe</b> <small>(23 21 13 23)</small>   |                        |                      |
| 23 21 13 23-0375 |       |     |     | <b>Welded Plain End Black Steel Pipe Assemblies</b> <small>(23 21 13 23-0374)</small><br>Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                        |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 35.81                     | 10.70                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.82                      |                         |
| 23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 40.64                     | 11.42                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.76                      |                         |
| 23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 49.85                     | 12.13                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 10.05                     |                         |
| 23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 54.88                     | 12.13                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 10.52                     |                         |
| 23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 63.28                     | 12.13                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 12.17                     |                         |
| 23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 73.31                     | 12.13                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.11                     |                         |
| 23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 89.62                     | 11.85                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 14.88                     |                         |
| 23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 118.13                    | 13.61                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 16.88                     |                         |
| 23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 168.07                    | 20.28                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 19.43                     |                         |
| 23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....  | 253.69                    | 25.18                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 28.83                     |                         |
| 23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 342.02                    | 31.49                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 34.39                     |                         |
| 23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 435.10                    | 38.04                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 39.73                     |                         |
| 23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 450.64                    | 49.62                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 44.33                     |                         |
| 23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 516.34                    | 62.97                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 49.54                     |                         |
| 23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 666.63                    | 77.96                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 54.35                     |                         |
| 23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 821.35                    | 96.34                   |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 62.22                     |                         |
| 23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....   | 1,021.10                  | 109.19                  |
| Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. |                           |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 68.41                     |                         |
| <b>23 21 13 23-0393 Welded Black Steel Pipe And Fittings</b> <small>(23 21 13 23-0374)</small>  |                           |                         |
| Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.  |                           |                         |
| <b>23 21 13 23-0394 Welded Plain End (A-53) Black Steel Piping</b> <small>(23 21 13 23-0393)</small>  |                           |                         |
| 23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe .....   | 17.34                     | 5.71                    |
| <i>For Schedule 80 Pipe, Add</i>  | 2.90                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 3.43                      |                         |
| 23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe .....   | 22.13                     | 7.13                    |
| <i>For Schedule 80 Pipe, Add</i>  | 3.71                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 4.28                      |                         |
| 23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe .....   | 28.66                     | 8.56                    |
| <i>For Schedule 80 Pipe, Add</i>  | 4.88                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 5.14                      |                         |
| 23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe .....   | 35.30                     | 9.98                    |
| <i>For Schedule 80 Pipe, Add</i>  | 6.06                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 5.99                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe .....                        | 42.01                     | 11.85                   |
| <i>For Schedule 80 Pipe, Add</i>   | 7.22                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 7.10                      |                         |
| 23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe .....                    | 48.21                     | 13.41                   |
| <i>For Schedule 80 Pipe, Add</i>   | 12.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.05                      |                         |
| 23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe .....                        | 62.77                     | 14.41                   |
| <i>For Schedule 80 Pipe, Add</i>   | 16.93                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.65                      |                         |
| 23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe .....                        | 90.08                     | 17.83                   |
| <i>For Schedule 80 Pipe, Add</i>   | 25.29                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.70                     |                         |
| 23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe .....                        | 135.43                    | 28.89                   |
| <i>For Schedule 80 Pipe, Add</i>   | 39.66                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.27                     |                         |
| 23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe .....                        | 191.66                    | 27.08                   |
| <i>For Schedule 80 Pipe, Add</i>   | 57.60                     |                         |
| <i>For Schedule 30 Pipe, Deduct</i>  | -32.92                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.25                     |                         |
| 23 21 13 23-0405 LF 10" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 259.86                    | 32.61                   |
| <i>For Schedule 80 Pipe, Add</i>   | 79.53                     |                         |
| <i>For Schedule 30 Pipe, Deduct</i>  | -45.45                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 19.57                     |                         |
| 23 21 13 23-0406 LF 12" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 336.21                    | 39.42                   |
| <i>For Schedule 80 Pipe, Add</i>   | 103.88                    |                         |
| <i>For Schedule 30 Pipe, Deduct</i>  | -59.36                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 23.65                     |                         |
| 23 21 13 23-0407 LF 14" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 317.81                    | 41.56                   |
| <i>For Schedule 80 Pipe, Add</i>   | 96.69                     |                         |
| <i>For Schedule 30 Pipe, Deduct</i>  | -55.25                    |                         |
| <i>For Schedule 20 Pipe, Deduct</i>  | -98.77                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.94                     |                         |
| 23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 351.75                    | 44.71                   |
| <i>For Schedule 80 Pipe, Add</i>   | 107.46                    |                         |
| <i>For Schedule 30 Pipe, Deduct</i>  | -61.41                    |                         |
| <i>For Schedule 20 Pipe, Deduct</i>  | -109.70                   |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.83                     |                         |
| 23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 460.29                    | 48.36                   |
| <i>For Schedule 80 Pipe, Add</i>   | 144.18                    |                         |
| <i>For Schedule 30 Pipe, Deduct</i>  | -82.39                    |                         |
| <i>For Schedule 20 Pipe, Deduct</i>  | -146.59                   |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 29.02                     |                         |
| 23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 542.76                    | 57.93                   |
| <i>For Schedule 80 Pipe, Add</i>   | 169.69                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.76                     |                         |
| 23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe .....                       | 684.72                    | 66.63                   |
| <i>For Schedule 80 Pipe, Add</i>   | 216.34                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 39.97                     |                         |
| <b>23 21 13 23-0412 Welded Plain End (A-106) Seamless Carbon Steel Piping (23 21 13 23-0393)</b>   |                           |                         |
| 23 21 13 23-0413 LF 1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....   | 12.94                     | 4.00                    |
| <i>For Work In Restricted Working Space, Add</i>   | 2.40                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 3.03                      |                         |
| 23 21 13 23-0414 LF 1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....   | 13.24                     | 4.43                    |
| <i>For Work In Restricted Working Space, Add</i>   | 2.61                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 2.98                      |                         |
| 23 21 13 23-0415 LF 3/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....   | 16.83                     | 5.71                    |
| <i>For Work In Restricted Working Space, Add</i>   | 3.43                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 3.71                      |                         |
| 23 21 13 23-0416 LF 1" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....     | 20.70                     | 7.13                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.28                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 4.52                      |                         |
| 23 21 13 23-0417 LF 1-1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe ..... | 25.93                     | 8.56                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.14                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 5.83                      |                         |
| 23 21 13 23-0418 LF 1-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe ..... | 30.28                     | 9.98                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.99                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 6.81                      |                         |
| 23 21 13 23-0419 LF 2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....     | 35.96                     | 11.85                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.10                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 8.10                      |                         |
| 23 21 13 23-0420 LF 2-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe ..... | 46.47                     | 13.41                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.05                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 15.02                     |                         |
| 23 21 13 23-0421 LF 3" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....     | 52.86                     | 14.41                   |
| <i>For Work In Restricted Working Space, Add</i>   | 8.65                      |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 17.79                     |                         |
| 23 21 13 23-0422 LF 4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....     | 65.67                     | 17.83                   |
| <i>For Work In Restricted Working Space, Add</i>   | 10.70                     |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 22.15                     |                         |
| 23 21 13 23-0423 LF 6" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....     | 100.11                    | 28.96                   |
| <i>For Work In Restricted Working Space, Add</i>   | 13.27                     |                         |
| <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>  | 37.93                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0424 LF 8" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....               | 138.26                    | 27.08                   |
| For Work In Restricted Working Space, Add   | 16.25                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 55.22                     |                         |
| 23 21 13 23-0425 LF 10" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 185.18                    | 32.61                   |
| For Work In Restricted Working Space, Add   | 19.57                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 76.95                     |                         |
| 23 21 13 23-0426 LF 12" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 225.68                    | 39.42                   |
| For Work In Restricted Working Space, Add   | 23.65                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 94.06                     |                         |
| 23 21 13 23-0427 LF 14" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 263.72                    | 41.56                   |
| For Work In Restricted Working Space, Add   | 24.94                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 113.60                    |                         |
| 23 21 13 23-0428 LF 16" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 303.75                    | 44.71                   |
| For Work In Restricted Working Space, Add   | 26.83                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 133.44                    |                         |
| 23 21 13 23-0429 LF 18" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 367.12                    | 48.36                   |
| For Work In Restricted Working Space, Add   | 29.02                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 165.93                    |                         |
| 23 21 13 23-0430 LF 20" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 442.33                    | 57.93                   |
| For Work In Restricted Working Space, Add   | 34.76                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 200.20                    |                         |
| 23 21 13 23-0431 LF 24" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe.....              | 556.19                    | 66.63                   |
| For Work In Restricted Working Space, Add   | 39.97                     |                         |
| For Schedule 80 (A-106) Carbon Steel Pipe, Add  | 256.84                    |                         |
| <b>23 21 13 23-0432 Welded Plain End Black Steel 90 Degree Elbows (23 21 13 23-0393)</b>                    |                           |                         |
| 23 21 13 23-0433 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                | 140.57                    | 79.85                   |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 29.61                     |                         |
| For Work In Restricted Working Space, Add   | 35.89                     |                         |
| 23 21 13 23-0434 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                  | 146.85                    | 84.00                   |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 30.83                     |                         |
| For Work In Restricted Working Space, Add   | 37.78                     |                         |
| 23 21 13 23-0435 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....              | 164.48                    | 95.71                   |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 34.27                     |                         |
| For Work In Restricted Working Space, Add   | 43.07                     |                         |
| 23 21 13 23-0436 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....              | 175.81                    | 103.27                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 36.48                     |                         |
| For Work In Restricted Working Space, Add   | 46.46                     |                         |
| 23 21 13 23-0437 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                  | 222.40                    | 134.38                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 45.57                     |                         |
| For Work In Restricted Working Space, Add   | 60.44                     |                         |
| 23 21 13 23-0438 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....              | 279.74                    | 168.01                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 57.48                     |                         |
| For Work In Restricted Working Space, Add   | 75.55                     |                         |
| 23 21 13 23-0439 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                  | 322.46                    | 192.91                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 66.38                     |                         |
| For Work In Restricted Working Space, Add   | 86.73                     |                         |
| 23 21 13 23-0440 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                  | 554.88                    | 333.31                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 113.99                    |                         |
| For Work In Restricted Working Space, Add   | 149.92                    |                         |
| 23 21 13 23-0441 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                  | 960.37                    | 550.05                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 201.51                    |                         |
| For Work In Restricted Working Space, Add   | 247.43                    |                         |
| 23 21 13 23-0442 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                  | 1,274.95                  | 682.47                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 275.04                    |                         |
| For Work In Restricted Working Space, Add   | 306.98                    |                         |
| 23 21 13 23-0443 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 1,631.55                  | 780.07                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 366.67                    |                         |
| For Work In Restricted Working Space, Add   | 350.83                    |                         |
| 23 21 13 23-0444 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 2,200.19                  | 1,020.61                |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 499.40                    |                         |
| For Work In Restricted Working Space, Add   | 459.03                    |                         |
| 23 21 13 23-0445 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 2,715.63                  | 1,206.37                |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 624.78                    |                         |
| For Work In Restricted Working Space, Add   | 542.60                    |                         |
| 23 21 13 23-0446 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 3,353.43                  | 1,408.75                |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 784.27                    |                         |
| For Work In Restricted Working Space, Add   | 633.60                    |                         |
| 23 21 13 23-0447 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 3,952.81                  | 1,570.84                |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 938.57                    |                         |
| For Work In Restricted Working Space, Add   | 706.51                    |                         |
| 23 21 13 23-0448 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 4,989.07                  | 1,761.26                |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 1,219.45                  |                         |
| For Work In Restricted Working Space, Add   | 792.20                    |                         |
| 23 21 13 23-0449 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....                 | 5,797.81                  | 1,820.07                |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 1,452.83                  |                         |
| For Work In Restricted Working Space, Add   | 818.60                    |                         |
| <b>23 21 13 23-0450 Welded Plain End Black Steel Reducing 90 Degree Elbows (23 21 13 23-0393)</b>           |                           |                         |
| 23 21 13 23-0451 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow ..... | 727.54                    | 333.88                  |
| For Schedule 80 Or Extra Heavy Fittings, Add  | 165.69                    |                         |
| For Work In Restricted Working Space, Add   | 150.20                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|--|--------------------------------|-------------------------|
| 23 21 13 23-0452 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 1,259.15<br>292.13<br>244.60   | 543.77                  |
| 23 21 13 23-0453 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 1,335.24<br>314.96<br>244.60   | 543.77                  |
| 23 21 13 23-0454 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 1,959.45<br>480.39<br>306.98   | 682.47                  |
| 23 21 13 23-0455 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 2,140.88<br>534.82<br>306.98   | 682.47                  |
| 23 21 13 23-0456 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 2,665.86<br>676.97<br>350.83   | 780.07                  |
| 23 21 13 23-0457 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 2,665.86<br>676.97<br>350.83   | 780.07                  |
| 23 21 13 23-0458 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 4,337.59<br>1,137.56<br>467.78 | 1,040.01                |
| 23 21 13 23-0459 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 4,337.59<br>1,137.56<br>467.78 | 1,040.01                |
| 23 21 13 23-0460 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 4,831.10<br>1,285.61<br>467.78 | 1,040.01                |
| <b>23 21 13 23-0461 Welded Plain End Black Steel 45 Degree Elbows</b> <small>(23 21 13 23-0393)</small>  |                                |                         |
| 23 21 13 23-0462 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>      | 137.89<br>28.63<br>36.38       | 80.90                   |
| 23 21 13 23-0463 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>        | 142.18<br>29.47<br>37.67       | 83.76                   |
| 23 21 13 23-0464 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>    | 160.72<br>33.08<br>43.23       | 96.16                   |
| 23 21 13 23-0465 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>    | 172.14<br>35.31<br>46.66       | 103.73                  |
| 23 21 13 23-0466 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>        | 217.80<br>44.22<br>60.36       | 134.13                  |
| 23 21 13 23-0467 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>    | 271.90<br>55.05<br>75.77       | 168.51                  |
| 23 21 13 23-0468 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>        | 313.42<br>63.67<br>86.72       | 192.77                  |
| 23 21 13 23-0469 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>        | 539.86<br>109.50<br>149.88     | 333.16                  |
| 23 21 13 23-0470 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>        | 922.82<br>190.35<br>247.14     | 549.48                  |
| 23 21 13 23-0471 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>        | 1,207.03<br>254.67<br>306.98   | 682.47                  |
| 23 21 13 23-0472 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 1,506.85<br>329.26<br>350.83   | 780.07                  |
| 23 21 13 23-0473 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 2,016.52<br>444.59<br>458.18   | 1,018.73                |
| 23 21 13 23-0474 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 2,473.29<br>551.82<br>543.32   | 1,208.01                |
| 23 21 13 23-0475 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 3,016.25<br>683.34<br>632.94   | 1,407.24                |
| 23 21 13 23-0476 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 3,518.94<br>808.69<br>705.70   | 1,568.95                |
| 23 21 13 23-0477 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 4,355.35<br>1,029.34<br>792.20 | 1,761.26                |
| 23 21 13 23-0478 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 4,969.60<br>1,204.37<br>818.60 | 1,820.07                |

23 21 13 23-0479 Welded Plain End Black Steel Tee (23 21 13 23-0393)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST        | DEMOLITION<br>UNIT COST |
|--|----------------------------------|-------------------------|
| 23 21 13 23-0480 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>            | 278.47<br>59.57<br>68.49         | 152.24                  |
| 23 21 13 23-0481 EA 1" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 278.39<br>59.55<br>68.47         | 152.24                  |
| 23 21 13 23-0482 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 314.35<br>67.65<br>76.16         | 169.37                  |
| 23 21 13 23-0483 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 345.84<br>73.79<br>85.61         | 190.34                  |
| 23 21 13 23-0484 EA 2" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 434.46<br>90.34<br>114.29        | 254.11                  |
| 23 21 13 23-0485 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 494.51<br>103.41<br>128.42       | 285.51                  |
| 23 21 13 23-0486 EA 3" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 592.92<br>123.34<br>155.81       | 346.72                  |
| 23 21 13 23-0487 EA 4" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 853.31<br>177.14<br>225.29       | 500.96                  |
| 23 21 13 23-0488 EA 6" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 1,426.99<br>297.82<br>372.22     | 827.56                  |
| 23 21 13 23-0489 EA 8" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>              | 1,904.14<br>407.52<br>467.78     | 1,040.01                |
| 23 21 13 23-0490 EA 10" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 2,397.39<br>528.21<br>545.74     | 1,213.29                |
| 23 21 13 23-0491 EA 12" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 3,218.38<br>719.93<br>701.66     | 1,560.01                |
| 23 21 13 23-0492 EA 14" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 4,142.72<br>956.30<br>818.60     | 1,820.07                |
| 23 21 13 23-0493 EA 16" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 4,983.91<br>1,151.36<br>982.33   | 2,184.04                |
| 23 21 13 23-0494 EA 18" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 6,430.65<br>1,547.18<br>1,091.48 | 2,426.72                |
| 23 21 13 23-0495 EA 20" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 8,404.13<br>2,091.47<br>1,227.91 | 2,730.11                |
| 23 21 13 23-0496 EA 24" Standard Weight, Welded Plain End Black Steel Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>             | 9,666.26<br>2,437.05<br>1,322.36 | 2,940.12                |
| <b>23 21 13 23-0497 Welded Plain End Black Steel Reducing Tees (23 21 13 23-0393)</b>  |                                  |                         |
| 23 21 13 23-0498 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 271.33<br>58.18<br>66.35         | 147.54                  |
| 23 21 13 23-0499 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 278.39<br>59.55<br>68.47         | 152.24                  |
| 23 21 13 23-0500 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 311.15<br>66.69<br>76.16         | 169.37                  |
| 23 21 13 23-0501 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 342.64<br>72.83<br>85.61         | 190.34                  |
| 23 21 13 23-0502 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 441.71<br>92.50<br>114.33        | 254.11                  |
| 23 21 13 23-0503 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 494.69<br>103.44<br>128.47       | 285.65                  |
| 23 21 13 23-0504 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 593.26<br>123.45<br>155.81       | 346.72                  |
| 23 21 13 23-0505 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 853.78<br>177.28<br>225.29       | 500.96                  |
| 23 21 13 23-0506 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 1,427.80<br>298.06<br>372.22     | 827.56                  |
| 23 21 13 23-0507 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 1,905.69<br>407.99<br>467.78     | 1,040.01                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST         | DEMOLITION<br>UNIT COST |
|---|-----------------------------------|-------------------------|
| 23 21 13 23-0508 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 2,400.03<br>529.00<br>545.74      | 1,213.29                |
| 23 21 13 23-0509 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 3,222.37<br>721.13<br>701.66      | 1,560.01                |
| 23 21 13 23-0510 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 4,149.15<br>958.23<br>818.60      | 1,820.07                |
| 23 21 13 23-0511 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 4,991.69<br>1,153.69<br>982.33    | 2,184.04                |
| 23 21 13 23-0512 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 6,443.37<br>1,550.99<br>1,091.48  | 2,426.72                |
| 23 21 13 23-0513 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 8,527.71<br>2,128.54<br>1,227.91  | 2,730.11                |
| 23 21 13 23-0514 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>                   | 10,218.24<br>2,602.64<br>1,322.36 | 2,940.12                |
| <br><b>23 21 13 23-0515 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)</b>  |                                   |                         |
| 23 21 13 23-0516 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>       | 227.07<br>53.52<br>41.73          | 92.79                   |
| 23 21 13 23-0517 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 240.61<br>56.16<br>45.79          | 101.82                  |
| 23 21 13 23-0518 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 237.06<br>55.46<br>44.73          | 99.45                   |
| 23 21 13 23-0519 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 257.02<br>59.36<br>50.72          | 112.76                  |
| 23 21 13 23-0520 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 247.03<br>57.41<br>47.72          | 106.10                  |
| 23 21 13 23-0521 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 243.48<br>56.72<br>46.65          | 103.73                  |
| 23 21 13 23-0522 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 255.16<br>55.35<br>60.56          | 134.63                  |
| 23 21 13 23-0523 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 281.75<br>64.00<br>58.63          | 130.36                  |
| 23 21 13 23-0524 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>         | 271.77<br>62.06<br>55.64          | 123.70                  |
| 23 21 13 23-0525 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 318.61<br>68.62<br>77.04          | 171.28                  |
| 23 21 13 23-0526 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 302.85<br>66.66<br>69.12          | 153.67                  |
| 23 21 13 23-0527 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 355.05<br>83.00<br>67.19          | 149.39                  |
| 23 21 13 23-0528 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 355.93<br>76.51<br>86.48          | 192.20                  |
| 23 21 13 23-0529 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>         | 360.71<br>77.95<br>86.48          | 192.20                  |
| 23 21 13 23-0530 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 370.84<br>80.99<br>86.48          | 192.20                  |
| 23 21 13 23-0531 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>         | 589.10<br>124.16<br>150.20        | 333.88                  |
| 23 21 13 23-0532 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>     | 593.89<br>125.60<br>150.20        | 333.88                  |
| 23 21 13 23-0533 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>         | 608.29<br>129.92<br>150.20        | 333.88                  |
| 23 21 13 23-0534 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>         | 997.57<br>213.66<br>244.60        | 543.77                  |
| 23 21 13 23-0535 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>         | 1,100.94<br>244.67<br>244.60      | 543.77                  |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 23 21 13 23-0536 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 1,473.06<br>311.64<br>372.22                | 827.56                  |
| 23 21 13 23-0537 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 1,665.40<br>369.34<br>372.22                | 827.56                  |
| 23 21 13 23-0538 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 1,731.09<br>369.51<br>428.05                | 951.70                  |
| 23 21 13 23-0539 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 1,962.35<br>438.89<br>428.05                | 951.70                  |
| 23 21 13 23-0540 EA 10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 2,266.60<br>530.16<br>-268.72<br>428.05     | 951.70                  |
| 23 21 13 23-0541 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 2,031.04<br>445.90<br>466.88                | 1,037.99                |
| 23 21 13 23-0542 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 2,301.19<br>526.95<br>466.88                | 1,037.99                |
| 23 21 13 23-0543 EA 12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 2,757.84<br>663.94<br>-384.50<br>466.88     | 1,037.99                |
| 23 21 13 23-0544 EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i>  | 2,023.38<br>443.60<br>-149.47<br>466.88     | 1,037.99                |
| 23 21 13 23-0545 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 2,652.49<br>604.74<br>545.74                | 1,213.29                |
| 23 21 13 23-0546 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 2,794.75<br>647.42<br>545.74                | 1,213.29                |
| 23 21 13 23-0547 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 4,213.11<br>1,072.93<br>545.74              | 1,213.29                |
| 23 21 13 23-0548 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 3,321.06<br>781.43<br>613.96                | 1,365.06                |
| 23 21 13 23-0549 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 3,739.89<br>907.08<br>613.96                | 1,365.06                |
| 23 21 13 23-0550 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 3,902.93<br>955.99<br>-594.05<br>613.96     | 1,365.06                |
| 23 21 13 23-0551 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 5,739.64<br>1,507.01<br>613.96              | 1,365.06                |
| 23 21 13 23-0552 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 6,653.60<br>1,781.20<br>613.96              | 1,365.06                |
| 23 21 13 23-0553 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 4,634.87<br>1,144.88<br>701.66              | 1,560.01                |
| 23 21 13 23-0554 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 2,750.58<br>579.59<br>-131.74<br>701.66     | 1,560.01                |
| 23 21 13 23-0555 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 4,854.95<br>1,210.90<br>-805.14<br>701.66   | 1,560.01                |
| 23 21 13 23-0556 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 5,179.43<br>1,308.25<br>701.66              | 1,560.01                |
| 23 21 13 23-0557 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 7,922.74<br>2,131.24<br>701.66              | 1,560.01                |
| 23 21 13 23-0558 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 5,524.39<br>1,380.05<br>-922.79<br>792.20   | 1,761.26                |
| 23 21 13 23-0559 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 5,516.94<br>1,377.81<br>-920.41<br>792.20   | 1,761.26                |
| 23 21 13 23-0560 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 9,146.12<br>2,466.57<br>-2,081.75<br>792.20 | 1,761.26                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 23 21 13 23-0561 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 10,601.82<br>2,903.28<br>792.20             | 1,761.26                |
| 23 21 13 23-0562 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 12,785.44<br>3,558.36<br>792.20             | 1,761.26                |
| 23 21 13 23-0563 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 6,509.72<br>1,666.40<br>-1,209.93<br>818.60 | 1,820.07                |
| 23 21 13 23-0564 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 6,949.68<br>1,798.39<br>-1,350.72<br>818.60 | 1,820.07                |
| 23 21 13 23-0565 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Concentric Reducers, Deduct</i><br><i>For Work In Restricted Working Space, Add</i> | 8,993.81<br>2,411.63<br>-2,004.84<br>818.60 | 1,820.07                |
| 23 21 13 23-0566 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 12,797.75<br>3,552.81<br>818.60             | 1,820.07                |
| 23 21 13 23-0567 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 15,650.01<br>4,408.49<br>818.60             | 1,820.07                |
| <b>23 21 13 23-0568 Welded Plain End Black Steel Concentric Reducers</b> (23 21 13 23-0393)  |   |                         |
| 23 21 13 23-0569 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 204.04<br>46.61<br>41.73                    | 92.79                   |
| 23 21 13 23-0570 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 217.58<br>49.25<br>45.79                    | 101.82                  |
| 23 21 13 23-0571 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                     | 214.03<br>48.55<br>44.73                    | 99.45                   |
| 23 21 13 23-0572 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                   | 233.99<br>52.45<br>50.72                    | 112.76                  |
| 23 21 13 23-0573 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 224.00<br>50.50<br>47.72                    | 106.10                  |
| 23 21 13 23-0574 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                     | 220.45<br>49.81<br>46.65                    | 103.73                  |
| 23 21 13 23-0575 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 243.43<br>51.83<br>60.56                    | 134.63                  |
| 23 21 13 23-0576 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 237.00<br>50.58<br>58.63                    | 130.36                  |
| 23 21 13 23-0577 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 243.01<br>53.43<br>55.64                    | 123.70                  |
| 23 21 13 23-0578 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 310.08<br>66.06<br>77.04                    | 171.28                  |
| 23 21 13 23-0579 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                   | 298.07<br>65.23<br>69.12                    | 153.67                  |
| 23 21 13 23-0580 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                   | 314.55<br>70.85<br>67.19                    | 149.39                  |
| 23 21 13 23-0581 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 331.41<br>69.16<br>86.48                    | 192.20                  |
| 23 21 13 23-0582 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 334.61<br>70.12<br>86.48                    | 192.20                  |
| 23 21 13 23-0583 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 341.54<br>72.20<br>86.48                    | 192.20                  |
| 23 21 13 23-0584 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 556.07<br>114.25<br>150.20                  | 333.88                  |
| 23 21 13 23-0585 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 568.33<br>117.93<br>150.20                  | 333.88                  |
| 23 21 13 23-0586 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 568.33<br>117.93<br>150.20                  | 333.88                  |
| 23 21 13 23-0587 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer .....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 931.52<br>193.85<br>244.60                  | 543.77                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|--|--------------------------------|-------------------------|
| 23 21 13 23-0588 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 956.01<br>201.19<br>244.60     | 543.77                  |
| 23 21 13 23-0589 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 1,393.12<br>287.66<br>372.22   | 827.56                  |
| 23 21 13 23-0590 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>   | 1,436.82<br>300.77<br>372.22   | 827.56                  |
| 23 21 13 23-0591 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 1,722.57<br>366.95<br>428.05   | 951.70                  |
| 23 21 13 23-0592 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 1,704.46<br>361.52<br>428.05   | 951.70                  |
| 23 21 13 23-0593 EA 10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 1,932.51<br>429.93<br>428.05   | 951.70                  |
| 23 21 13 23-0594 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 1,921.81<br>413.13<br>466.88   | 1,037.99                |
| 23 21 13 23-0595 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 1,976.57<br>429.56<br>466.88   | 1,037.99                |
| 23 21 13 23-0596 EA 12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 1,996.40<br>435.51<br>466.88   | 1,037.99                |
| 23 21 13 23-0597 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 2,577.74<br>609.91<br>466.88   | 1,037.99                |
| 23 21 13 23-0598 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 2,369.01<br>519.70<br>545.74   | 1,213.29                |
| 23 21 13 23-0599 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 2,572.02<br>580.60<br>545.74   | 1,213.29                |
| 23 21 13 23-0600 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 2,748.39<br>633.51<br>545.74   | 1,213.29                |
| 23 21 13 23-0601 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 3,430.02<br>838.00<br>545.74   | 1,213.29                |
| 23 21 13 23-0602 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 3,008.82<br>687.76<br>613.96   | 1,365.06                |
| 23 21 13 23-0603 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 3,008.82<br>687.76<br>613.96   | 1,365.06                |
| 23 21 13 23-0604 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 3,110.07<br>718.14<br>613.96   | 1,365.06                |
| 23 21 13 23-0605 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 3,446.28<br>819.00<br>613.96   | 1,365.06                |
| 23 21 13 23-0606 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 4,838.72<br>1,236.73<br>613.96 | 1,365.06                |
| 23 21 13 23-0607 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 3,390.16<br>771.47<br>701.66   | 1,560.01                |
| 23 21 13 23-0608 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 3,649.66<br>849.32<br>701.66   | 1,560.01                |
| 23 21 13 23-0609 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 3,758.36<br>881.93<br>701.66   | 1,560.01                |
| 23 21 13 23-0610 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 4,054.07<br>970.64<br>701.66   | 1,560.01                |
| 23 21 13 23-0611 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i>  | 7,452.42<br>1,990.14<br>701.66 | 1,560.01                |
| 23 21 13 23-0612 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 4,444.85<br>1,056.19<br>792.20 | 1,761.26                |
| 23 21 13 23-0613 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 4,444.85<br>1,056.19<br>792.20 | 1,761.26                |
| 23 21 13 23-0614 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 4,518.92<br>1,078.41<br>792.20 | 1,761.26                |
| 23 21 13 23-0615 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer<br><i>For Schedule 80 Or Extra Heavy Fittings, Add<br/>For Work In Restricted Working Space, Add</i> | 4,957.45<br>1,209.97<br>792.20 | 1,761.26                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|---|--------------------------------|-------------------------|
| 23 21 13 23-0616 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer.....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 5,720.47<br>1,438.87<br>792.20 | 1,761.26                |
| 23 21 13 23-0617 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer.....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 4,769.47<br>1,144.33<br>818.60 | 1,820.07                |
| 23 21 13 23-0618 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer.....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 4,815.81<br>1,158.23<br>818.60 | 1,820.07                |
| 23 21 13 23-0619 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer.....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 4,906.39<br>1,185.41<br>818.60 | 1,820.07                |
| 23 21 13 23-0620 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer.....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 7,003.65<br>1,814.58<br>818.60 | 1,820.07                |
| 23 21 13 23-0621 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer.....<br><i>For Schedule 80 Or Extra Heavy Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 7,417.67<br>1,938.79<br>818.60 | 1,820.07                |
| <br><b>23 21 13 23-0622 Welded Plain End Black Steel Caps</b> <small>(23 21 13 23-0393)</small>   |                                |                         |
| 23 21 13 23-0623 EA 1" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 81.97<br>15.67<br>21.40        | 47.66                   |
| 23 21 13 23-0624 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                   | 89.78<br>17.12<br>23.54        | 52.36                   |
| 23 21 13 23-0625 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                   | 93.29<br>17.82<br>24.40        | 54.22                   |
| 23 21 13 23-0626 EA 2" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 116.73<br>22.00<br>31.25       | 69.49                   |
| 23 21 13 23-0627 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                   | 138.73<br>25.92<br>37.67       | 83.76                   |
| 23 21 13 23-0628 EA 3" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 162.13<br>30.53<br>43.46       | 96.59                   |
| 23 21 13 23-0629 EA 4" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 273.31<br>50.70<br>75.10       | 166.94                  |
| 23 21 13 23-0630 EA 6" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 457.23<br>85.47<br>124.07      | 275.80                  |
| 23 21 13 23-0631 EA 8" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                       | 645.18<br>121.10<br>173.90     | 386.67                  |
| 23 21 13 23-0632 EA 10" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                      | 846.68<br>162.54<br>219.51     | 488.12                  |
| 23 21 13 23-0633 EA 12" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                      | 905.25<br>176.39<br>228.45     | 507.91                  |
| 23 21 13 23-0634 EA 14" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                      | 1,179.78<br>240.24<br>272.87   | 606.65                  |
| 23 21 13 23-0635 EA 16" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                      | 1,370.15<br>279.01<br>316.88   | 704.51                  |
| 23 21 13 23-0636 EA 18" Standard Weight, Welded Plain End Black Steel Cap.....<br><i>For Schedule 80 Fittings, Add</i><br><i>For Work In Restricted Working Space, Add</i>                                      | 1,530.43<br>312.95<br>350.83   | 780.07                  |
| <br><b>23 21 13 23-0637 150 LB, Welded Plain End Black Steel Neck Flanges</b> <small>(23 21 13 23-0393)</small>   |                                |                         |
| Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.   |                                |                         |
| 23 21 13 23-0638 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 197.30<br>42.14<br>48.39       | 107.58                  |
| 23 21 13 23-0639 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 237.26<br>46.33<br>60.38       | 134.27                  |
| 23 21 13 23-0640 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 266.19<br>49.40<br>69.04       | 153.52                  |
| 23 21 13 23-0641 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 349.51<br>64.02<br>91.08       | 202.47                  |
| 23 21 13 23-0642 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 530.93<br>97.79<br>138.08      | 307.06                  |
| 23 21 13 23-0643 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 553.15<br>123.92<br>132.75     | 295.20                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0644 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 716.68                    | 370.14                  |
| For 300 LB Rating, Add  | 171.46                    |                         |
| For Work In Restricted Working Space, Add   | 166.50                    |                         |
| 23 21 13 23-0645 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 865.45                    | 420.01                  |
| For 300 LB Rating, Add  | 231.14                    |                         |
| For Work In Restricted Working Space, Add   | 188.91                    |                         |
| 23 21 13 23-0646 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 1,119.39                  | 507.91                  |
| For 300 LB Rating, Add  | 330.48                    |                         |
| For Work In Restricted Working Space, Add   | 228.45                    |                         |
| 23 21 13 23-0647 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 1,444.14                  | 590.27                  |
| For 300 LB Rating, Add  | 484.33                    |                         |
| For Work In Restricted Working Space, Add   | 265.49                    |                         |
| 23 21 13 23-0648 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 1,768.51                  | 661.81                  |
| For 300 LB Rating, Add  | 647.57                    |                         |
| For Work In Restricted Working Space, Add   | 297.68                    |                         |
| 23 21 13 23-0649 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 2,242.57                  | 840.01                  |
| For 300 LB Rating, Add  | 820.46                    |                         |
| For Work In Restricted Working Space, Add   | 377.82                    |                         |
| 23 21 13 23-0650 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange.....                                | 2,531.84                  | 910.04                  |
| For 300 LB Rating, Add  | 960.51                    |                         |
| For Work In Restricted Working Space, Add   | 409.30                    |                         |
| <b>23 21 13 23-0651 150 LB, Welded Black Steel Slip-On Flanges</b> (23 21 13 23-0393)                         |                           |                         |
| Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set. |                           |                         |
| 23 21 13 23-0652 EA 2", 150 LB, Welded Black Steel Slip-On Flanges.....                                       | 150.39                    | 107.58                  |
| For 300 LB Rating, Add  | 33.26                     |                         |
| For Work In Restricted Working Space, Add   | 38.53                     |                         |
| 23 21 13 23-0653 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange.....                                    | 185.16                    | 134.27                  |
| For 300 LB Rating, Add  | 41.87                     |                         |
| For Work In Restricted Working Space, Add   | 47.09                     |                         |
| 23 21 13 23-0654 EA 3", 150 LB, Welded Black Steel Slip-On Flange.....  | 218.69                    | 153.52                  |
| For 300 LB Rating, Add  | 49.36                     |                         |
| For Work In Restricted Working Space, Add   | 55.65                     |                         |
| 23 21 13 23-0655 EA 4", 150 LB, Welded Black Steel Slip-On Flange.....  | 287.86                    | 202.47                  |
| For 300 LB Rating, Add  | 66.24                     |                         |
| For Work In Restricted Working Space, Add   | 72.77                     |                         |
| 23 21 13 23-0656 EA 6", 150 LB, Welded Black Steel Slip-On Flange.....  | 426.42                    | 307.06                  |
| For 300 LB Rating, Add  | 100.19                    |                         |
| For Work In Restricted Working Space, Add   | 107.01                    |                         |
| 23 21 13 23-0657 EA 8", 150 LB, Welded Black Steel Slip-On Flange.....  | 509.06                    | 295.20                  |
| For 300 LB Rating, Add  | 137.76                    |                         |
| For Work In Restricted Working Space, Add   | 120.90                    |                         |
| 23 21 13 23-0658 EA 10", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 686.84                    | 370.14                  |
| For 300 LB Rating, Add  | 217.67                    |                         |
| For Work In Restricted Working Space, Add   | 151.13                    |                         |
| 23 21 13 23-0659 EA 12", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 893.38                    | 420.01                  |
| For 300 LB Rating, Add  | 323.46                    |                         |
| For Work In Restricted Working Space, Add   | 181.35                    |                         |
| 23 21 13 23-0660 EA 14", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 1,127.30                  | 507.91                  |
| For 300 LB Rating, Add  | 453.89                    |                         |
| For Work In Restricted Working Space, Add   | 211.58                    |                         |
| 23 21 13 23-0661 EA 16", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 1,349.07                  | 590.27                  |
| For 300 LB Rating, Add  | 593.40                    |                         |
| For Work In Restricted Working Space, Add   | 234.25                    |                         |
| 23 21 13 23-0662 EA 18", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 1,493.52                  | 661.81                  |
| For 300 LB Rating, Add  | 663.34                    |                         |
| For Work In Restricted Working Space, Add   | 256.92                    |                         |
| 23 21 13 23-0663 EA 20", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 1,656.16                  | 840.01                  |
| For 300 LB Rating, Add  | 749.64                    |                         |
| For Work In Restricted Working Space, Add   | 279.59                    |                         |
| 23 21 13 23-0664 EA 24", 150 LB, Welded Black Steel Slip-On Flange.....                                       | 1,896.78                  | 910.04                  |
| For 300 LB Rating, Add  | 846.05                    |                         |
| For Work In Restricted Working Space, Add   | 324.92                    |                         |
| <b>23 21 13 23-0665 150 LB, Forged Steel Blind Flanges</b> (23 21 13 23-0393)                                 |                           |                         |
| 23 21 13 23-0666 EA 2", 150 LB, Forged Steel Blind Flange.....  | 96.91                     | 38.29                   |
| For 300 LB Rating, Add  | 24.30                     |                         |
| For 600 LB Rating, Add  | 60.26                     |                         |
| For Work In Restricted Working Space, Add   | 22.98                     |                         |
| 23 21 13 23-0667 EA 2-1/2", 150 LB, Forged Steel Blind Flange.....  | 124.85                    | 45.95                   |
| For 300 LB Rating, Add  | 36.01                     |                         |
| For 600 LB Rating, Add  | 92.87                     |                         |
| For Work In Restricted Working Space, Add   | 27.57                     |                         |
| 23 21 13 23-0668 EA 3", 150 LB, Forged Steel Blind Flange.....  | 156.62                    | 61.28                   |
| For 300 LB Rating, Add  | 40.13                     |                         |
| For 600 LB Rating, Add  | 100.17                    |                         |
| For Work In Restricted Working Space, Add   | 36.76                     |                         |
| 23 21 13 23-0669 EA 4", 150 LB, Forged Steel Blind Flange.....  | 200.16                    | 76.59                   |
| For 300 LB Rating, Add  | 53.67                     |                         |
| For 600 LB Rating, Add  | 135.73                    |                         |
| For Work In Restricted Working Space, Add   | 45.95                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0670 EA 6", 150 LB, Forged Steel Blind Flange.....                 | 270.31                    | 99.57                   |
| For 300 LB Rating, Add   | 77.85                     |                         |
| For 600 LB Rating, Add   | 200.70                    |                         |
| For Work In Restricted Working Space, Add                                      | 59.74                     |                         |
| 23 21 13 23-0671 EA 8", 150 LB, Forged Steel Blind Flange.....                 | 342.69                    | 114.88                  |
| For 300 LB Rating, Add   | 114.46                    |                         |
| For 600 LB Rating, Add   | 305.47                    |                         |
| For Work In Restricted Working Space, Add                                      | 68.93                     |                         |
| 23 21 13 23-0672 EA 10", 150 LB, Forged Steel Blind Flange.....                | 496.22                    | 137.86                  |
| For 300 LB Rating, Add   | 205.35                    |                         |
| For 600 LB Rating, Add   | 570.56                    |                         |
| For Work In Restricted Working Space, Add                                      | 82.72                     |                         |
| 23 21 13 23-0673 EA 12", 150 LB, Forged Steel Blind Flange.....                | 633.76                    | 160.84                  |
| For 300 LB Rating, Add   | 283.45                    |                         |
| For 600 LB Rating, Add   | 797.27                    |                         |
| For Work In Restricted Working Space, Add                                      | 96.50                     |                         |
| 23 21 13 23-0674 EA 14", 150 LB, Forged Steel Blind Flange.....                | 1,010.21                  | 183.82                  |
| For 300 LB Rating, Add   | 552.67                    |                         |
| For Work In Restricted Working Space, Add                                      | 110.29                    |                         |
| 23 21 13 23-0675 EA 16", 150 LB, Forged Steel Blind Flange.....                | 1,090.90                  | 206.79                  |
| For 300 LB Rating, Add   | 585.28                    |                         |
| For Work In Restricted Working Space, Add                                      | 124.07                    |                         |
| 23 21 13 23-0676 EA 18", 150 LB, Forged Steel Blind Flange.....                | 1,241.15                  | 252.75                  |
| For 300 LB Rating, Add   | 641.60                    |                         |
| For Work In Restricted Working Space, Add                                      | 151.65                    |                         |
| 23 21 13 23-0677 EA 20", 150 LB, Forged Steel Blind Flange.....                | 1,558.68                  | 275.72                  |
| For 300 LB Rating, Add   | 863.69                    |                         |
| For Work In Restricted Working Space, Add                                      | 165.43                    |                         |
| 23 21 13 23-0678 EA 24", 150 LB, Forged Steel Blind Flange.....                | 2,085.38                  | 321.67                  |
| For 300 LB Rating, Add   | 1,221.18                  |                         |
| For Work In Restricted Working Space, Add                                      | 193.01                    |                         |
| <br>   |                           |                         |
| <b>23 21 13 23-0679 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)</b> |                           |                         |
| 23 21 13 23-0680 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let.....              | 96.34                     |                         |
| For Work In Restricted Working Space, Add                                      | 26.97                     |                         |
| 23 21 13 23-0681 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let.....              | 101.73                    |                         |
| For Work In Restricted Working Space, Add                                      | 28.25                     |                         |
| 23 21 13 23-0682 EA 1", 3,000 LB, Forge Steel Thread-O-Let.....                | 108.36                    |                         |
| For Work In Restricted Working Space, Add                                      | 29.96                     |                         |
| 23 21 13 23-0683 EA 1-1/4", 3,000 LB, Forge Steel Thread-O-Let.....            | 119.04                    |                         |
| For Work In Restricted Working Space, Add                                      | 32.10                     |                         |
| 23 21 13 23-0684 EA 1-1/2", 3,000 LB, Forge Steel Thread-O-Let.....            | 133.91                    |                         |
| For Work In Restricted Working Space, Add                                      | 36.38                     |                         |
| 23 21 13 23-0685 EA 2", 3,000 LB, Forge Steel Thread-O-Let.....                | 173.58                    |                         |
| For Work In Restricted Working Space, Add                                      | 47.56                     |                         |
| 23 21 13 23-0686 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let.....            | 258.41                    |                         |
| For Work In Restricted Working Space, Add                                      | 61.15                     |                         |
| 23 21 13 23-0687 EA 3", 3,000 LB, Forge Steel Thread-O-Let.....                | 357.58                    |                         |
| For Work In Restricted Working Space, Add                                      | 85.61                     |                         |
| 23 21 13 23-0688 EA 4", 3,000 LB, Forge Steel Thread-O-Let.....                | 469.56                    |                         |
| For Work In Restricted Working Space, Add                                      | 107.01                    |                         |
| <br>   |                           |                         |
| <b>23 21 13 23-0689 3,000 LB, Forge Steel Weld-O-Lets (23 21 13 23-0393)</b>   |                           |                         |
| 23 21 13 23-0690 EA 1/2", 3,000 LB, Forge Steel Weld-O-Let.....                | 118.01                    |                         |
| For Work In Restricted Working Space, Add                                      | 31.12                     |                         |
| 23 21 13 23-0691 EA 3/4", 3,000 LB, Forge Steel Weld-O-Let.....                | 125.48                    |                         |
| For Work In Restricted Working Space, Add                                      | 32.62                     |                         |
| 23 21 13 23-0692 EA 1", 3,000 LB, Forge Steel Weld-O-Let.....                  | 132.95                    |                         |
| For Work In Restricted Working Space, Add                                      | 34.25                     |                         |
| 23 21 13 23-0693 EA 1-1/4", 3,000 LB, Forge Steel Weld-O-Let.....              | 153.51                    |                         |
| For Work In Restricted Working Space, Add                                      | 38.06                     |                         |
| 23 21 13 23-0694 EA 1-1/2", 3,000 LB, Forge Steel Weld-O-Let.....              | 170.67                    |                         |
| For Work In Restricted Working Space, Add                                      | 42.80                     |                         |
| 23 21 13 23-0695 EA 2", 3,000 LB, Forge Steel Weld-O-Let.....                  | 227.97                    |                         |
| For Work In Restricted Working Space, Add                                      | 57.06                     |                         |
| 23 21 13 23-0696 EA 2-1/2", 3,000 LB, Forge Steel Weld-O-Let.....              | 349.27                    |                         |
| For Work In Restricted Working Space, Add                                      | 68.49                     |                         |
| 23 21 13 23-0697 EA 3", 3,000 LB, Forge Steel Weld-O-Let.....                  | 459.67                    |                         |
| For Work In Restricted Working Space, Add                                      | 89.89                     |                         |
| 23 21 13 23-0698 EA 4", 3,000 LB, Forge Steel Weld-O-Let.....                  | 630.65                    |                         |
| For Work In Restricted Working Space, Add                                      | 114.16                    |                         |
| 23 21 13 23-0699 EA 6", 3,000 LB, Forge Steel Weld-O-Let.....                  | 902.48                    |                         |
| For Work In Restricted Working Space, Add                                      | 171.22                    |                         |
| 23 21 13 23-0700 EA 8", 3,000 LB, Forge Steel Weld-O-Let.....                  | 1,388.64                  |                         |
| For Work In Restricted Working Space, Add                                      | 228.28                    |                         |
| 23 21 13 23-0701 EA 10", 3,000 LB, Forge Steel Weld-O-Let.....                 | 1,770.54                  |                         |
| For Work In Restricted Working Space, Add                                      | 263.42                    |                         |
| 23 21 13 23-0702 EA 12", 3,000 LB, Forge Steel Weld-O-Let.....                 | 2,732.89                  |                         |
| For Work In Restricted Working Space, Add                                      | 311.32                    |                         |
| <br>   |                           |                         |
| <b>23 21 13 23-0703 3,000 LB, Forge Steel Sock-O-Lets (23 21 13 23-0393)</b>   |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 23 21 13 23-0704        | EA  | 1/2", 3,000 LB, Forge Steel Sock-O-Let.....<br><i>For Work In Restricted Working Space, Add</i>  | 137.61<br>37.20           |                         |
| 23 21 13 23-0705        | EA  | 3/4", 3,000 LB, Forge Steel Sock-O-Let.....<br><i>For Work In Restricted Working Space, Add</i>  | 145.97<br>38.99           |                         |
| 23 21 13 23-0706        | EA  | 1", 3,000 LB, Forge Steel Sock-O-Let.....<br><i>For Work In Restricted Working Space, Add</i>  | 155.75<br>41.35           |                         |
| 23 21 13 23-0707        | EA  | 1-1/4", 3,000 LB, Forge Steel Sock-O-Let .....<br><i>For Work In Restricted Working Space, Add</i>   | 173.10<br>44.30           |                         |
| 23 21 13 23-0708        | EA  | 1-1/2", 3,000 LB, Forge Steel Sock-O-Let .....<br><i>For Work In Restricted Working Space, Add</i>   | 194.04<br>50.21           |                         |
| 23 21 13 23-0709        | EA  | 2", 3,000 LB, Forge Steel Sock-O-Let.....<br><i>For Work In Restricted Working Space, Add</i>  | 252.06<br>65.62           |                         |
| 23 21 13 23-0710        | EA  | 2-1/2", 3,000 LB, Forge Steel Sock-O-Let .....<br><i>For Work In Restricted Working Space, Add</i>   | 396.56<br>84.37           |                         |
| 23 21 13 23-0711        | EA  | 3", 3,000 LB, Forge Steel Sock-O-Let.....<br><i>For Work In Restricted Working Space, Add</i>  | 546.39<br>118.14          |                         |
| 23 21 13 23-0712        | EA  | 4", 3,000 LB, Forge Steel Sock-O-Let.....<br><i>For Work In Restricted Working Space, Add</i>  | 730.72<br>147.68          |                         |
| <b>23 21 13 23-0713</b> |     | <b>Class 150 Flange, Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small>  |                           |                         |
|                         |     | Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. |                           |                         |
| 23 21 13 23-0714        | EA  | 3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.   | 16.01                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 4.48                      |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 6.40                      |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 11.21                     |                         |
| 23 21 13 23-0715        | EA  | 2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   | 20.32                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 5.69                      |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 8.13                      |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 14.22                     |                         |
| 23 21 13 23-0716        | EA  | 2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   | 20.54                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 5.75                      |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 8.22                      |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 14.38                     |                         |
| 23 21 13 23-0717        | EA  | 3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   | 20.64                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 5.78                      |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 8.26                      |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 14.45                     |                         |
| 23 21 13 23-0718        | EA  | 4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.  | 46.14                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 12.92                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 18.46                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 32.30                     |                         |
| 23 21 13 23-0719        | EA  | 5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  | 65.88                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 18.45                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 26.35                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 46.12                     |                         |
| 23 21 13 23-0720        | EA  | 6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  | 71.24                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 19.95                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 28.50                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 49.87                     |                         |
| 23 21 13 23-0721        | EA  | 8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  | 78.10                     |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 21.87                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 31.24                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 54.67                     |                         |
| 23 21 13 23-0722        | EA  | 10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.   | 172.64                    |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 48.34                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 69.06                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 120.85                    |                         |
| 23 21 13 23-0723        | EA  | 12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.   | 175.98                    |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 49.27                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 70.39                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 123.19                    |                         |
| 23 21 13 23-0724        | EA  | 14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.   | 197.37                    |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 55.26                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 78.95                     |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 138.16                    |                         |
| 23 21 13 23-0725        | EA  | 16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....<br>Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.  | 327.81                    |                         |
|                         |     | <i>For Zinc Plated, Add</i>  | 91.79                     |                         |
|                         |     | <i>For Hot Dip Galvanized, Add</i>   | 131.12                    |                         |
|                         |     | <i>For Advanced Fluoropolymer (Blue Coating), Add</i>  | 229.47                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0726 EA 18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....  | 472.61                    |                         |
| Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.   |                           |                         |
| For Zinc Plated, Add   | 132.33                    |                         |
| For Hot Dip Galvanized, Add  | 189.04                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 330.83                    |                         |
| 23 21 13 23-0727 EA 20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....  | 597.10                    |                         |
| Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 167.19                    |                         |
| For Hot Dip Galvanized, Add  | 238.84                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 417.97                    |                         |
| 23 21 13 23-0728 EA 24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....  | 850.95                    |                         |
| Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 238.27                    |                         |
| For Hot Dip Galvanized, Add  | 340.38                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 595.67                    |                         |
| 23 21 13 23-0729 EA 30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....  | 1,343.35                  |                         |
| Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 376.14                    |                         |
| For Hot Dip Galvanized, Add  | 537.34                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 940.35                    |                         |
| 23 21 13 23-0730 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....  | 1,911.60                  |                         |
| Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 535.25                    |                         |
| For Hot Dip Galvanized, Add  | 764.64                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 1,338.12                  |                         |
| <b>23 21 13 23-0731 Class 300 Flange, Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small>   |                           |                         |
| Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. |                           |                         |
| 23 21 13 23-0732 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 25.69                     |                         |
| Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   |                           |                         |
| For Zinc Plated, Add   | 7.19                      |                         |
| For Hot Dip Galvanized, Add  | 10.28                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 17.98                     |                         |
| 23 21 13 23-0733 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 47.10                     |                         |
| Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 13.19                     |                         |
| For Hot Dip Galvanized, Add  | 18.84                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 32.97                     |                         |
| 23 21 13 23-0734 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 73.28                     |                         |
| Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 20.52                     |                         |
| For Hot Dip Galvanized, Add  | 29.31                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 51.30                     |                         |
| 23 21 13 23-0735 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 79.62                     |                         |
| Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 22.29                     |                         |
| For Hot Dip Galvanized, Add  | 31.85                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 55.73                     |                         |
| 23 21 13 23-0736 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 81.28                     |                         |
| Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 22.76                     |                         |
| For Hot Dip Galvanized, Add  | 32.51                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 56.90                     |                         |
| 23 21 13 23-0737 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 87.54                     |                         |
| Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 24.51                     |                         |
| For Hot Dip Galvanized, Add  | 35.02                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 61.28                     |                         |
| 23 21 13 23-0738 EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 125.89                    |                         |
| Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 35.25                     |                         |
| For Hot Dip Galvanized, Add  | 50.36                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 88.12                     |                         |
| 23 21 13 23-0739 EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....   | 195.26                    |                         |
| Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 54.67                     |                         |
| For Hot Dip Galvanized, Add  | 78.10                     |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 136.68                    |                         |
| 23 21 13 23-0740 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 356.94                    |                         |
| Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.   |                           |                         |
| For Zinc Plated, Add   | 99.94                     |                         |
| For Hot Dip Galvanized, Add  | 142.78                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 249.86                    |                         |
| 23 21 13 23-0741 EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 514.80                    |                         |
| Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.   |                           |                         |
| For Zinc Plated, Add   | 144.14                    |                         |
| For Hot Dip Galvanized, Add  | 205.92                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 360.36                    |                         |
| 23 21 13 23-0742 EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 704.38                    |                         |
| Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.  |                           |                         |
| For Zinc Plated, Add   | 197.23                    |                         |
| For Hot Dip Galvanized, Add  | 281.75                    |                         |
| For Advanced Fluoropolymer (Blue Coating), Add   | 493.07                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 23 21 | 13 23-0743 | EA  | 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 972.13                 |                      |
|       |            |     | Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.  |                        |                      |
|       |            |     | For Zinc Plated, Add   | 272.20                 |                      |
|       |            |     | For Hot Dip Galvanized, Add  | 388.85                 |                      |
|       |            |     | For Advanced Fluoropolymer (Blue Coating), Add   | 680.49                 |                      |
| 23 21 | 13 23-0744 | EA  | 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 1,248.64               |                      |
|       |            |     | Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.   |                        |                      |
|       |            |     | For Zinc Plated, Add   | 349.62                 |                      |
|       |            |     | For Hot Dip Galvanized, Add  | 499.46                 |                      |
|       |            |     | For Advanced Fluoropolymer (Blue Coating), Add   | 874.05                 |                      |
| 23 21 | 13 23-0745 | EA  | 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 1,325.34               |                      |
|       |            |     | Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.   |                        |                      |
|       |            |     | For Zinc Plated, Add   | 371.10                 |                      |
|       |            |     | For Hot Dip Galvanized, Add  | 530.14                 |                      |
|       |            |     | For Advanced Fluoropolymer (Blue Coating), Add   | 927.74                 |                      |
| 23 21 | 13 23-0746 | EA  | 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 1,680.55               |                      |
|       |            |     | Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.   |                        |                      |
|       |            |     | For Zinc Plated, Add   | 470.55                 |                      |
|       |            |     | For Hot Dip Galvanized, Add  | 672.22                 |                      |
|       |            |     | For Advanced Fluoropolymer (Blue Coating), Add   | 1,176.39               |                      |
| 23 21 | 13 23-0747 | EA  | 30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 2,639.97               |                      |
|       |            |     | Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.  |                        |                      |
|       |            |     | For Zinc Plated, Add   | 739.19                 |                      |
|       |            |     | For Hot Dip Galvanized, Add  | 1,055.99               |                      |
|       |            |     | For Advanced Fluoropolymer (Blue Coating), Add   | 1,847.98               |                      |
| 23 21 | 13 23-0748 | EA  | 36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....  | 4,001.40               |                      |
|       |            |     | Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.  |                        |                      |
|       |            |     | For Zinc Plated, Add   | 1,120.39               |                      |
|       |            |     | For Hot Dip Galvanized, Add  | 1,600.56               |                      |
|       |            |     | For Advanced Fluoropolymer (Blue Coating), Add   | 2,800.98               |                      |
| 23 21 | 13 23-0749 |     | <b>Class 150 Flange, Stainless Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small>  |                        |                      |
|       |            |     | Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. |                        |                      |
| 23 21 | 13 23-0750 | EA  | 3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....   | 16.01                  |                      |
|       |            |     | Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.   |                        |                      |
| 23 21 | 13 23-0751 | EA  | 2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 60.73                  |                      |
|       |            |     | Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   |                        |                      |
| 23 21 | 13 23-0752 | EA  | 2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 60.83                  |                      |
|       |            |     | Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   |                        |                      |
| 23 21 | 13 23-0753 | EA  | 3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 60.93                  |                      |
|       |            |     | Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.   |                        |                      |
| 23 21 | 13 23-0754 | EA  | 4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 128.89                 |                      |
|       |            |     | Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0755 | EA  | 5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 163.57                 |                      |
|       |            |     | Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0756 | EA  | 6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 184.53                 |                      |
|       |            |     | Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0757 | EA  | 8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....  | 185.53                 |                      |
|       |            |     | Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0758 | EA  | 10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 478.79                 |                      |
|       |            |     | Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0759 | EA  | 12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 480.66                 |                      |
|       |            |     | Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0760 | EA  | 14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 727.64                 |                      |
|       |            |     | Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0761 | EA  | 16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 969.38                 |                      |
|       |            |     | Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.   |                        |                      |
| 23 21 | 13 23-0762 | EA  | 18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 2,519.72               |                      |
|       |            |     | Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.   |                        |                      |
| 23 21 | 13 23-0763 | EA  | 20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 2,919.24               |                      |
|       |            |     | Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0764 | EA  | 24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....   | 3,370.42               |                      |
|       |            |     | Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.  |                        |                      |
| 23 21 | 13 23-0765 |     | <b>150 LB, Rubber Flange Gasket Replacement</b> <small>(23 21 13 23-0393)</small>  |                        |                      |
|       |            |     | Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.  |                        |                      |
| 23 21 | 13 23-0766 | EA  | 1/2", 150 LB, Rubber Flange Gasket Replacement .....   | 42.92                  |                      |
|       |            |     | For 300 LB Rating Gasket Set, Add  | 0.21                   |                      |
|       |            |     | For 150 LB Rating Teflon Gasket Set, Add   | 4.72                   |                      |
|       |            |     | For 300 LB Rating Teflon Gasket Set, Add   | 5.43                   |                      |
|       |            |     | For Work In Restricted Working Space, Add  | 12.69                  |                      |
| 23 21 | 13 23-0767 | EA  | 3/4", 150 LB, Rubber Flange Gasket Replacement .....   | 45.94                  |                      |
|       |            |     | For 300 LB Rating Gasket Set, Add  | 0.28                   |                      |
|       |            |     | For 150 LB Rating Teflon Gasket Set, Add   | 6.26                   |                      |
|       |            |     | For 300 LB Rating Teflon Gasket Set, Add   | 7.21                   |                      |
|       |            |     | For Work In Restricted Working Space, Add  | 13.54                  |                      |
| 23 21 | 13 23-0768 | EA  | 1", 150 LB, Rubber Flange Gasket Replacement .....   | 50.78                  |                      |
|       |            |     | For 300 LB Rating Gasket Set, Add  | 0.50                   |                      |
|       |            |     | For 150 LB Rating Teflon Gasket Set, Add   | 10.98                  |                      |
|       |            |     | For 300 LB Rating Teflon Gasket Set, Add   | 12.64                  |                      |
|       |            |     | For Work In Restricted Working Space, Add  | 14.81                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0769 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement.....                                 | 55.22                     |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 0.57                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 12.52                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 14.42                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 16.08                     |                         |
| 23 21 13 23-0770 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement.....                                 | 61.26                     |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 0.71                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 15.69                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 18.07                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 17.77                     |                         |
| 23 21 13 23-0771 EA 2", 150 LB, Rubber Flange Gasket Replacement.....                                     | 67.72                     |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 0.99                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 21.95                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 25.28                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 19.46                     |                         |
| 23 21 13 23-0772 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement.....                                 | 80.01                     |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 1.35                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 29.76                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 34.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 22.85                     |                         |
| 23 21 13 23-0773 EA 3", 150 LB, Rubber Flange Gasket Replacement.....                                     | 84.85                     |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 1.56                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 34.48                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 39.69                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.12                     |                         |
| 23 21 13 23-0774 EA 4", 150 LB, Rubber Flange Gasket Replacement.....                                     | 113.08                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 2.56                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 56.43                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 64.97                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 31.73                     |                         |
| 23 21 13 23-0775 EA 5", 150 LB, Rubber Flange Gasket Replacement.....                                     | 130.82                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 2.84                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 62.69                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 72.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 36.81                     |                         |
| 23 21 13 23-0776 EA 6", 150 LB, Rubber Flange Gasket Replacement.....                                     | 150.17                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 3.69                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 81.47                     |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 93.81                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 41.89                     |                         |
| 23 21 13 23-0777 EA 8", 150 LB, Rubber Flange Gasket Replacement.....                                     | 184.65                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 5.39                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 119.04                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 137.06                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 50.78                     |                         |
| 23 21 13 23-0778 EA 10", 150 LB, Rubber Flange Gasket Replacement.....                                    | 202.43                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 7.66                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 169.21                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 194.82                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 54.16                     |                         |
| 23 21 13 23-0779 EA 12", 150 LB, Rubber Flange Gasket Replacement.....                                    | 232.47                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 9.79                      |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 216.13                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 248.84                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 61.35                     |                         |
| 23 21 13 23-0780 EA 14", 150 LB, Rubber Flange Gasket Replacement.....                                    | 245.01                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 11.70                     |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 258.49                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 297.62                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 63.47                     |                         |
| 23 21 13 23-0781 EA 16", 150 LB, Rubber Flange Gasket Replacement.....                                    | 319.37                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 13.05                     |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 288.25                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 331.88                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 84.62                     |                         |
| 23 21 13 23-0782 EA 18", 150 LB, Rubber Flange Gasket Replacement.....                                    | 347.77                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 13.62                     |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 300.77                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 346.30                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 92.66                     |                         |
| 23 21 13 23-0783 EA 20", 150 LB, Rubber Flange Gasket Replacement.....                                    | 418.28                    |                         |
| <i>For 300 LB Rating Gasket Set, Add</i>  | 14.61                     |                         |
| <i>For 150 LB Rating Teflon Gasket Set, Add</i>   | 322.65                    |                         |
| <i>For 300 LB Rating Teflon Gasket Set, Add</i>   | 371.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 112.96                    |                         |
| <b>23 21 13 23-0784 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393)</b> |                           |                         |
| Note: For use when connecting pipe to an existing in-place system.  |                           |                         |
| 23 21 13 23-0785 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....             | 30.63                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 9.19                      |                         |
| 23 21 13 23-0786 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....             | 33.08                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 9.92                      |                         |
| 23 21 13 23-0787 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....               | 37.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 11.16                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|---|--------------------------------|-------------------------|
| 23 21 13 23-0788 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 39.05<br>11.72                 |                         |
| 23 21 13 23-0789 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 41.34<br>12.40                 |                         |
| 23 21 13 23-0790 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 44.40<br>13.32                 |                         |
| 23 21 13 23-0791 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 47.48<br>14.24                 |                         |
| 23 21 13 23-0792 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 52.06<br>15.62                 |                         |
| 23 21 13 23-0793 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 56.65<br>17.00                 |                         |
| 23 21 13 23-0794 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 61.25<br>18.38                 |                         |
| 23 21 13 23-0795 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 65.84<br>19.75                 |                         |
| 23 21 13 23-0796 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 71.97<br>21.59                 |                         |
| 23 21 13 23-0797 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 78.10<br>23.43                 |                         |
| 23 21 13 23-0798 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 84.22<br>25.27                 |                         |
| 23 21 13 23-0799 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 90.35<br>27.11                 |                         |
| 23 21 13 23-0800 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 94.94<br>28.48                 |                         |
| 23 21 13 23-0801 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 99.54<br>29.86                 |                         |
| 23 21 13 23-0802 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 105.66<br>31.70                |                         |
| <b>23 21 13 23-0803 Welded Plain End Electric Resistance Black Steel Pipe</b> (23 21 13 23-0393)<br>Note: ASTM A-135.   |                                |                         |
| 23 21 13 23-0804 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 38.15<br>7.71                  | 15.69                   |
| 23 21 13 23-0805 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or<br>Fittings .....<br><i>For Work In Restricted Working Space, Add</i>  | 44.82<br>7.71                  | 17.12                   |
| 23 21 13 23-0806 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 48.76<br>7.55                  | 16.83                   |
| 23 21 13 23-0807 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 60.56<br>9.62                  | 21.40                   |
| 23 21 13 23-0808 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 102.65<br>14.24                | 31.67                   |
| 23 21 13 23-0809 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or<br>Fittings .....<br><i>For Work In Restricted Working Space, Add</i>  | 129.50<br>15.49                | 34.38                   |
| 23 21 13 23-0810 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or<br>Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 179.91<br>19.27                | 42.82                   |
| 23 21 13 23-0811 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or<br>Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 218.90<br>23.22                | 51.63                   |
| 23 21 13 23-0812 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or<br>Fittings .....<br><i>For Work In Restricted Working Space, Add</i>   | 278.02<br>30.14                | 67.00                   |
| <b>23 21 13 23-0813 Flanged Steel Fittings</b> (23 21 13 23)<br>See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0637 for welded neck flange ends.  |                                |                         |
| <b>23 21 13 23-0814 Flanged Steel Fittings, Standard Weight</b> (23 21 13 23-0813)<br>Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23<br>21 13 23-0713 for Class 150 steel bolt and gasket set. |                                |                         |
| <b>23 21 13 23-0815 Flanged Steel, 90 Degree Elbows</b> (23 21 13 23-0814)  |                                |                         |
| 23 21 13 23-0816 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>  | 574.18<br>380.39<br>570.59     | 65.83                   |
| 23 21 13 23-0817 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>  | 640.41<br>424.35<br>636.53     | 73.31                   |
| 23 21 13 23-0818 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>  | 637.35<br>412.89<br>619.33     | 80.92                   |
| 23 21 13 23-0819 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>  | 807.62<br>533.31<br>799.97     | 94.03                   |
| 23 21 13 23-0820 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>  | 1,125.61<br>774.16<br>1,161.24 | 105.31                  |
| 23 21 13 23-0821 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>  | 1,191.60<br>806.66<br>1,209.98 | 122.23                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-0822 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow .....                   | 1,509.28                  | 135.34                  |
| <i>For Galvanized Fittings, Add</i>  | 1,045.01                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,567.51                  |                         |
| <b>23 21 13 23-0823 Flanged Steel, Reducing 90 Degree Elbows (23 21 13 23-0814)</b>            |                           |                         |
| 23 21 13 23-0824 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow ..... | 1,064.86                  | 69.65                   |
| <i>For Galvanized Fittings, Add</i>  | 768.42                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,152.64                  |                         |
| 23 21 13 23-0825 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow ..... | 1,109.58                  | 77.12                   |
| <i>For Galvanized Fittings, Add</i>  | 795.18                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,192.78                  |                         |
| 23 21 13 23-0826 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....     | 1,380.76                  | 87.40                   |
| <i>For Galvanized Fittings, Add</i>  | 999.72                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,499.58                  |                         |
| 23 21 13 23-0827 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....     | 1,707.00                  | 93.05                   |
| <i>For Galvanized Fittings, Add</i>  | 1,253.95                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,880.93                  |                         |
| 23 21 13 23-0828 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....     | 1,944.61                  | 108.13                  |
| <i>For Galvanized Fittings, Add</i>  | 1,425.98                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 2,138.98                  |                         |
| 23 21 13 23-0829 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....     | 2,709.16                  | 128.85                  |
| <i>For Galvanized Fittings, Add</i>  | 2,012.82                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 3,019.22                  |                         |
| <b>23 21 13 23-0830 Flanged Steel, 45 Degree Elbows (23 21 13 23-0814)</b>                     |                           |                         |
| 23 21 13 23-0831 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow .....                   | 746.21                    | 65.83                   |
| <i>For Galvanized Fittings, Add</i>  | 518.02                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 777.02                    |                         |
| 23 21 13 23-0832 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow .....               | 779.00                    | 73.31                   |
| <i>For Galvanized Fittings, Add</i>  | 535.22                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 802.84                    |                         |
| 23 21 13 23-0833 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow .....                   | 809.38                    | 80.92                   |
| <i>For Galvanized Fittings, Add</i>  | 550.51                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 825.77                    |                         |
| 23 21 13 23-0834 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow .....                   | 1,008.33                  | 94.03                   |
| <i>For Galvanized Fittings, Add</i>  | 693.88                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,040.82                  |                         |
| 23 21 13 23-0835 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow .....                   | 1,450.57                  | 105.31                  |
| <i>For Galvanized Fittings, Add</i>  | 1,034.13                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,551.19                  |                         |
| 23 21 13 23-0836 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow .....                   | 1,416.20                  | 122.23                  |
| <i>For Galvanized Fittings, Add</i>  | 986.34                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,479.50                  |                         |
| 23 21 13 23-0837 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow .....                   | 1,669.23                  | 135.34                  |
| <i>For Galvanized Fittings, Add</i>  | 1,172.97                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,759.45                  |                         |
| <b>23 21 13 23-0838 Flanged Steel, Tees (23 21 13 23-0814)</b>                                 |                           |                         |
| 23 21 13 23-0839 EA 2" Standard Weight, Flanged Steel, Tee.....                                | 738.21                    | 98.69                   |
| <i>For Galvanized Fittings, Add</i>  | 472.14                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 708.22                    |                         |
| 23 21 13 23-0840 EA 2-1/2" Standard Weight, Flanged Steel, Tee .....                           | 951.05                    | 109.97                  |
| <i>For Galvanized Fittings, Add</i>  | 628.89                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 943.33                    |                         |
| 23 21 13 23-0841 EA 3" Standard Weight, Flanged Steel, Tee.....                                | 870.03                    | 121.24                  |
| <i>For Galvanized Fittings, Add</i>  | 550.53                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 825.79                    |                         |
| 23 21 13 23-0842 EA 4" Standard Weight, Flanged Steel, Tee.....                                | 1,238.87                  | 141.12                  |
| <i>For Galvanized Fittings, Add</i>  | 821.93                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,232.89                  |                         |
| 23 21 13 23-0843 EA 5" Standard Weight, Flanged Steel, Tee.....                                | 1,833.83                  | 158.04                  |
| <i>For Galvanized Fittings, Add</i>  | 1,277.59                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,916.39                  |                         |
| 23 21 13 23-0844 EA 6" Standard Weight, Flanged Steel, Tee.....                                | 2,236.90                  | 183.42                  |
| <i>For Galvanized Fittings, Add</i>  | 1,569.60                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 2,354.40                  |                         |
| 23 21 13 23-0845 EA 8" Standard Weight, Flanged Steel, Tee.....                                | 2,477.94                  | 212.46                  |
| <i>For Galvanized Fittings, Add</i>  | 1,727.46                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 2,591.18                  |                         |
| <b>23 21 13 23-0846 Flanged Steel, Reducing Tees (23 21 13 23-0814)</b>                        |                           |                         |
| 23 21 13 23-0847 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee .....                  | 1,160.45                  | 106.30                  |
| <i>For Galvanized Fittings, Add</i>  | 800.92                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,201.38                  |                         |
| 23 21 13 23-0848 EA 3" Standard Weight, Flanged Steel, Reducing Tee .....                      | 1,339.86                  | 117.58                  |
| <i>For Galvanized Fittings, Add</i>  | 930.90                    |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 1,396.36                  |                         |
| 23 21 13 23-0849 EA 4" Standard Weight, Flanged Steel, Reducing Tee .....                      | 2,296.94                  | 134.50                  |
| <i>For Galvanized Fittings, Add</i>  | 1,676.27                  |                         |
| <i>For Extra Heavy Weight Fittings, Add</i>  | 2,514.41                  |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST        | DEMOLITION<br>UNIT COST |
|---|----------------------------------|-------------------------|
| 23 21 13 23-0850 EA 5" Standard Weight, Flanged Steel, Reducing Tee.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>                | 2,483.68<br>1,804.23<br>2,706.35 | 152.40                  |
| 23 21 13 23-0851 EA 6" Standard Weight, Flanged Steel, Reducing Tee.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>                | 3,119.99<br>2,286.22<br>3,429.32 | 174.96                  |
| 23 21 13 23-0852 EA 8" Standard Weight, Flanged Steel, Reducing Tee.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>                | 3,893.06<br>2,878.74<br>4,318.10 | 196.53                  |
| <b>23 21 13 23-0853 Flanged Steel, Concentric Reducers (23 21 13 23-0814)</b>   |                                  |                         |
| 23 21 13 23-0854 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i> | 1,095.25<br>783.72<br>1,175.58   | 77.12                   |
| 23 21 13 23-0855 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>     | 1,244.56<br>890.76<br>1,336.14   | 87.40                   |
| 23 21 13 23-0856 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>     | 1,843.52<br>1,355.26<br>2,032.90 | 99.67                   |
| 23 21 13 23-0857 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>     | 2,033.02<br>1,496.71<br>2,245.07 | 108.13                  |
| 23 21 13 23-0858 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>     | 2,381.82<br>1,750.94<br>2,626.42 | 128.85                  |
| <b>23 21 13 23-0859 Flanged Steel, Eccentric Reducers (23 21 13 23-0814)</b>  |                                  |                         |
| 23 21 13 23-0860 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>      | 1,184.35<br>842.59<br>1,263.89   | 87.40                   |
| 23 21 13 23-0861 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer.....<br><i>For Galvanized Fittings, Add</i><br><i>For Extra Heavy Weight Fittings, Add</i>      | 1,607.92<br>1,166.78<br>1,750.18 | 99.67                   |
| <b>23 21 13 23-0862 Plain End Couplings And Fittings (23 21 13 23)</b>  |                                  |                         |
| Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.                     |                                  |                         |
| <b>23 21 13 23-0863 Plain End Piping System Couplings (23 21 13 23-0862)</b>  |                                  |                         |
| <b>23 21 13 23-0864 Plainlock Plain End Piping System Couplings (23 21 13 23-0863)</b>  |                                  |                         |
| Note: Ductile iron body with gasket, bolts and nuts.  |                                  |                         |
| 23 21 13 23-0865 EA 1" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 175.31<br>32.52                  | 8.46                    |
| 23 21 13 23-0866 EA 1-1/2" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 180.23<br>32.52                  | 11.70                   |
| 23 21 13 23-0867 EA 2" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 185.95<br>32.52                  | 15.51                   |
| 23 21 13 23-0868 EA 2-1/2" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 190.82<br>32.52                  | 18.75                   |
| 23 21 13 23-0869 EA 3" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 225.75<br>38.38                  | 22.56                   |
| 23 21 13 23-0870 EA 4" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 311.01<br>53.18                  | 30.03                   |
| 23 21 13 23-0871 EA 6" Plainlock Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 522.31<br>89.80                  | 48.92                   |
| <b>23 21 13 23-0872 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0863)</b>   |                                  |                         |
| Note: Ductile iron body with gasket, bolts and nuts.  |                                  |                         |
| 23 21 13 23-0873 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 211.82<br>48.55                  | 11.70                   |
| 23 21 13 23-0874 EA 2" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 217.54<br>48.55                  | 15.51                   |
| 23 21 13 23-0875 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 222.42<br>48.55                  | 18.89                   |
| 23 21 13 23-0876 EA 3" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 321.49<br>71.92                  | 22.56                   |
| 23 21 13 23-0877 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 372.42<br>83.23                  | 26.37                   |
| 23 21 13 23-0878 EA 4" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 378.00<br>83.23                  | 30.03                   |
| 23 21 13 23-0879 EA 5" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 532.05<br>118.90                 | 37.64                   |
| 23 21 13 23-0880 EA 6" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 654.22<br>145.22                 | 48.92                   |
| 23 21 13 23-0881 EA 8" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>  | 1,117.51<br>257.51               | 58.36                   |
| 23 21 13 23-0882 EA 10" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>   | 1,443.70<br>335.01               | 69.08                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0883 EA 12" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>             | 1,804.15<br>420.37        | 81.77                   |
| 23 21 13 23-0884 EA 14" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>             | 2,523.28<br>596.93        | 90.37                   |
| 23 21 13 23-0885 EA 16" Roust-A-Bout Plain End Piping System Coupling.....<br><i>For Galvanized Fittings, Add</i>             | 3,423.03<br>817.45        | 102.21                  |
| <b>23 21 13 23-0886 Plain End Piping System Fittings</b> <small>(23 21 13 23-0862)</small><br>Note: Cast ductile iron bodies. |                           |                         |
| <b>23 21 13 23-0887 Plain End Piping System, 90 Degree Elbows</b> <small>(23 21 13 23-0886)</small>                           |                           |                         |
| 23 21 13 23-0888 EA 1" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 176.55<br>30.70           | 15.37                   |
| 23 21 13 23-0889 EA 1-1/2" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>               | 188.40<br>30.70           | 23.26                   |
| 23 21 13 23-0890 EA 2" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 199.59<br>30.70           | 30.73                   |
| 23 21 13 23-0891 EA 2-1/2" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>               | 209.63<br>30.70           | 37.50                   |
| 23 21 13 23-0892 EA 3" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 252.42<br>36.88           | 45.39                   |
| 23 21 13 23-0893 EA 4" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 358.58<br>53.78           | 59.77                   |
| 23 21 13 23-0894 EA 5" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 1,042.97<br>186.15        | 74.87                   |
| 23 21 13 23-0895 EA 6" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 886.94<br>148.02          | 97.98                   |
| 23 21 13 23-0896 EA 8" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 1,737.60<br>312.62        | 116.30                  |
| 23 21 13 23-0897 EA 10" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                  | 2,168.34<br>392.92        | 135.90                  |
| 23 21 13 23-0898 EA 12" Plain End Piping System, 90 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                  | 2,746.15<br>500.28        | 163.26                  |
| <b>23 21 13 23-0899 Plain End Piping System, 45 Degree Elbows</b> <small>(23 21 13 23-0886)</small>                           |                           |                         |
| 23 21 13 23-0900 EA 1" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 176.55<br>30.70           | 15.37                   |
| 23 21 13 23-0901 EA 1-1/2" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>               | 188.40<br>30.70           | 23.26                   |
| 23 21 13 23-0902 EA 2" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 199.59<br>30.70           | 30.73                   |
| 23 21 13 23-0903 EA 2-1/2" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>               | 209.63<br>30.70           | 37.50                   |
| 23 21 13 23-0904 EA 3" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 252.42<br>36.88           | 45.39                   |
| 23 21 13 23-0905 EA 4" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 358.58<br>53.78           | 59.77                   |
| 23 21 13 23-0906 EA 5" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 1,042.97<br>186.15        | 74.87                   |
| 23 21 13 23-0907 EA 6" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 889.78<br>148.59          | 97.98                   |
| 23 21 13 23-0908 EA 8" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                   | 1,033.36<br>171.78        | 116.30                  |
| 23 21 13 23-0909 EA 10" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                  | 1,402.35<br>239.72        | 135.90                  |
| 23 21 13 23-0910 EA 12" Plain End Piping System, 45 Degree Elbow.....<br><i>For Galvanized Fittings, Add</i>                  | 1,793.23<br>309.69        | 163.26                  |
| <b>23 21 13 23-0911 Plain End Piping System, Tees</b> <small>(23 21 13 23-0886)</small>                                       |                           |                         |
| 23 21 13 23-0912 EA 1" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 241.61<br>41.34           | 23.26                   |
| 23 21 13 23-0913 EA 1-1/2" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                           | 259.09<br>41.34           | 34.96                   |
| 23 21 13 23-0914 EA 2" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 274.50<br>41.34           | 45.25                   |
| 23 21 13 23-0915 EA 2-1/2" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                           | 289.84<br>41.34           | 55.41                   |
| 23 21 13 23-0916 EA 3" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 399.65<br>59.50           | 68.10                   |
| 23 21 13 23-0917 EA 4" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 545.72<br>82.74           | 88.11                   |
| 23 21 13 23-0918 EA 5" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 1,081.59<br>181.76        | 115.18                  |
| 23 21 13 23-0919 EA 6" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 1,337.89<br>224.33        | 144.22                  |
| 23 21 13 23-0920 EA 8" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                               | 1,817.19<br>310.83        | 175.38                  |
| 23 21 13 23-0921 EA 10" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                              | 2,679.83<br>474.67        | 204.42                  |
| 23 21 13 23-0922 EA 12" Plain End Piping System, Tee.....<br><i>For Galvanized Fittings, Add</i>                              | 3,577.75<br>642.12        | 244.89                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 21 13 23-0923 |     |     | <b>Plain End Piping System, Reducing Tees</b> <small>(23 21 13 23-0886)</small> |                        |                      |
| 23 21 13 23-0924 | EA  |     | 1-1/2" Plain End Piping System, Reducing Tee.....                               | 464.78                 | 37.50                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 81.72                  |                      |
| 23 21 13 23-0925 | EA  |     | 2" Plain End Piping System, Reducing Tee.....                                   | 476.38                 | 45.25                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 81.72                  |                      |
| 23 21 13 23-0926 | EA  |     | 2-1/2" Plain End Piping System, Reducing Tee.....                               | 491.72                 | 55.41                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 81.72                  |                      |
| 23 21 13 23-0927 | EA  |     | 3" Plain End Piping System, Reducing Tee.....                                   | 510.76                 | 68.10                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 81.72                  |                      |
| 23 21 13 23-0928 | EA  |     | 4" Plain End Piping System, Reducing Tee.....                                   | 735.22                 | 88.11                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 120.64                 |                      |
| 23 21 13 23-0929 | EA  |     | 6" Plain End Piping System, Reducing Tee.....                                   | 1,240.57               | 144.22               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 204.87                 |                      |
| 23 21 13 23-0930 | EA  |     | 8" Plain End Piping System, Reducing Tee.....                                   | 1,612.03               | 175.38               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 269.80                 |                      |
| 23 21 13 23-0931 | EA  |     | 10" Plain End Piping System, Reducing Tee.....                                  | 2,386.18               | 204.42               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 415.94                 |                      |
| 23 21 13 23-0932 | EA  |     | 12" Plain End Piping System, Reducing Tee.....                                  | 3,493.72               | 244.89               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 625.32                 |                      |
| 23 21 13 23-0933 |     |     | <b>Plain End Piping System, Wyes</b> <small>(23 21 13 23-0886)</small>          |                        |                      |
| 23 21 13 23-0934 | EA  |     | 2" Plain End Piping System, Wye.....  | 673.28                 | 45.25                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 121.10                 |                      |
| 23 21 13 23-0935 | EA  |     | 2-1/2" Plain End Piping System, Wye.....  | 688.62                 | 55.41                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 121.10                 |                      |
| 23 21 13 23-0936 | EA  |     | 3" Plain End Piping System, Wye.....  | 782.78                 | 68.10                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 136.12                 |                      |
| 23 21 13 23-0937 | EA  |     | 4" Plain End Piping System, Wye.....  | 1,142.26               | 88.11                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 202.05                 |                      |
| 23 21 13 23-0938 | EA  |     | 5" Plain End Piping System, Wye.....  | 1,402.13               | 115.18               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 245.87                 |                      |
| 23 21 13 23-0939 | EA  |     | 6" Plain End Piping System, Wye.....  | 1,909.10               | 144.22               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 338.57                 |                      |
| 23 21 13 23-0940 | EA  |     | 8" Plain End Piping System, Wye.....  | 2,455.41               | 175.38               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 438.48                 |                      |
| 23 21 13 23-0941 | EA  |     | 10" Plain End Piping System, Wye.....   | 3,539.42               | 204.42               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 646.59                 |                      |
| 23 21 13 23-0942 | EA  |     | 12" Plain End Piping System, Wye.....   | 5,351.00               | 244.89               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 996.77                 |                      |
| 23 21 13 23-0943 |     |     | <b>Plain End Piping System, Laterals</b> <small>(23 21 13 23-0886)</small>      |                        |                      |
| 23 21 13 23-0944 | EA  |     | 2" Plain End Piping System, Lateral.....  | 716.10                 | 45.25                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 129.66                 |                      |
| 23 21 13 23-0945 | EA  |     | 2-1/2" Plain End Piping System, Lateral.....                                    | 731.44                 | 55.41                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 129.66                 |                      |
| 23 21 13 23-0946 | EA  |     | 3" Plain End Piping System, Lateral.....  | 825.32                 | 68.10                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 144.63                 |                      |
| 23 21 13 23-0947 | EA  |     | 4" Plain End Piping System, Lateral.....  | 1,223.50               | 88.11                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 218.30                 |                      |
| 23 21 13 23-0948 | EA  |     | 5" Plain End Piping System, Lateral.....  | 1,595.61               | 115.18               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 284.57                 |                      |
| 23 21 13 23-0949 | EA  |     | 6" Plain End Piping System, Lateral.....  | 2,033.59               | 144.22               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 363.47                 |                      |
| 23 21 13 23-0950 | EA  |     | 8" Plain End Piping System, Lateral.....  | 2,912.67               | 175.38               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 529.93                 |                      |
| 23 21 13 23-0951 | EA  |     | 10" Plain End Piping System, Lateral.....                                       | 4,046.76               | 204.42               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 748.06                 |                      |
| 23 21 13 23-0952 | EA  |     | 12" Plain End Piping System, Lateral.....                                       | 5,426.40               | 244.89               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 1,011.85               |                      |
| 23 21 13 23-0953 |     |     | <b>Plain End Piping System, Crosses</b> <small>(23 21 13 23-0886)</small>       |                        |                      |
| 23 21 13 23-0954 | EA  |     | 2" Plain End Piping System, Cross.....  | 805.52                 | 67.82                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 87.99                  |                      |
| 23 21 13 23-0955 | EA  |     | 2-1/2" Plain End Piping System, Cross.....                                      | 828.49                 | 83.04                |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 87.99                  |                      |
| 23 21 13 23-0956 | EA  |     | 3" Plain End Piping System, Cross.....  | 969.73                 | 102.21               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 102.06                 |                      |
| 23 21 13 23-0957 | EA  |     | 4" Plain End Piping System, Cross.....  | 1,319.67               | 132.10               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 140.21                 |                      |
| 23 21 13 23-0958 | EA  |     | 5" Plain End Piping System, Cross.....  | 1,852.30               | 172.84               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 199.14                 |                      |
| 23 21 13 23-0959 | EA  |     | 6" Plain End Piping System, Cross.....  | 2,426.95               | 215.70               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 262.95                 |                      |
| 23 21 13 23-0960 | EA  |     | 8" Plain End Piping System, Cross.....  | 3,090.33               | 261.24               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 337.34                 |                      |
| 23 21 13 23-0961 | EA  |     | 10" Plain End Piping System, Cross.....   | 4,395.34               | 305.36               |
|                  |     |     | <i>For Galvanized Fittings, Add</i>   | 492.20                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-0962 EA 12" Plain End Piping System, Cross.....<br><i>For Galvanized Fittings, Add</i>  | 6,228.41<br>709.71        | 367.40                  |
| <b>23 21 13 23-0963 Plain End Piping System, Adapter Nipples (23 21 13 23-0886)</b><br>Note: Plain to threaded, plain to beveled or plain to grooved. |                           |                         |
| 23 21 13 23-0964 EA 1" Plain End Piping System, Adapter Nipple.....<br><i>For Galvanized Fittings, Add</i>  | 77.30<br>16.15            | 8.46                    |
| 23 21 13 23-0965 EA 1-1/2" Plain End Piping System, Adapter Nipple .....<br><i>For Galvanized Fittings, Add</i>                                       | 84.01<br>16.60            | 11.70                   |
| 23 21 13 23-0966 EA 2" Plain End Piping System, Adapter Nipple.....<br><i>For Galvanized Fittings, Add</i>  | 89.58<br>16.60            | 15.51                   |
| 23 21 13 23-0967 EA 2-1/2" Plain End Piping System, Adapter Nipple .....<br><i>For Galvanized Fittings, Add</i>                                       | 105.98<br>19.45           | 18.75                   |
| 23 21 13 23-0968 EA 3" Plain End Piping System, Adapter Nipple.....<br><i>For Galvanized Fittings, Add</i>  | 129.95<br>24.03           | 22.56                   |
| 23 21 13 23-0969 EA 4" Plain End Piping System, Adapter Nipple.....<br><i>For Galvanized Fittings, Add</i>  | 205.83<br>40.18           | 30.03                   |
| 23 21 13 23-0970 EA 6" Plain End Piping System, Adapter Nipple.....<br><i>For Galvanized Fittings, Add</i>  | 491.04<br>108.66          | 37.64                   |
| <b>23 21 13 23-0971 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0886)</b>   |                           |                         |
| 23 21 13 23-0972 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 247.46<br>54.29           | 20.16                   |
| 23 21 13 23-0973 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 253.12<br>54.29           | 23.96                   |
| 23 21 13 23-0974 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 258.81<br>54.29           | 27.77                   |
| 23 21 13 23-0975 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 257.43<br>54.29           | 26.93                   |
| 23 21 13 23-0976 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple .....<br><i>For Galvanized Fittings, Add</i>                    | 262.98<br>54.29           | 30.59                   |
| 23 21 13 23-0977 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 268.61<br>54.29           | 34.26                   |
| 23 21 13 23-0978 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 310.90<br>66.12           | 31.01                   |
| 23 21 13 23-0979 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 315.92<br>66.12           | 34.26                   |
| 23 21 13 23-0980 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 260.53<br>50.85           | 38.06                   |
| 23 21 13 23-0981 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 271.44<br>50.85           | 45.39                   |
| 23 21 13 23-0982 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 316.50<br>60.81           | 48.92                   |
| 23 21 13 23-0983 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 429.67<br>92.97           | 38.48                   |
| 23 21 13 23-0984 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 434.61<br>92.97           | 41.87                   |
| 23 21 13 23-0985 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 350.05<br>70.40           | 45.67                   |
| 23 21 13 23-0986 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 354.89<br>70.40           | 48.92                   |
| 23 21 13 23-0987 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 360.64<br>70.40           | 52.72                   |
| 23 21 13 23-0988 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 366.13<br>70.40           | 56.39                   |
| 23 21 13 23-0989 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 1,115.32<br>258.90        | 53.15                   |
| 23 21 13 23-0990 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 889.46<br>199.83          | 60.05                   |
| 23 21 13 23-0991 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 759.34<br>164.44          | 67.82                   |
| 23 21 13 23-0992 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 2,059.19<br>493.31        | 57.38                   |
| 23 21 13 23-0993 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 2,064.05<br>493.31        | 60.63                   |
| 23 21 13 23-0994 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 1,556.03<br>364.87        | 64.43                   |
| 23 21 13 23-0995 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 1,561.03<br>364.87        | 67.82                   |
| 23 21 13 23-0996 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 1,052.97<br>236.46        | 71.48                   |
| 23 21 13 23-0997 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                         | 1,058.09<br>236.46        | 74.87                   |
| 23 21 13 23-0998 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 835.61<br>179.33          | 78.95                   |
| 23 21 13 23-0999 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 952.04<br>205.62          | 86.42                   |
| 23 21 13 23-1000 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 1,261.81<br>285.17        | 80.78                   |
| 23 21 13 23-1001 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....<br><i>For Galvanized Fittings, Add</i>                             | 1,273.19<br>285.17        | 88.39                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1002 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....             | 1,441.54                  | 96.01                   |
| For Galvanized Fittings, Add   | 324.42                    |                         |
| 23 21 13 23-1003 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple.....             | 1,615.54                  | 107.28                  |
| For Galvanized Fittings, Add   | 363.65                    |                         |
| <b>23 21 13 23-1004 Plain End Piping System, Bull Plugs (23 21 13 23-0886)</b>                 |                           |                         |
| 23 21 13 23-1005 EA 1" Plain End Piping System, Bull Plug.....                                 | 346.46                    | 8.46                    |
| For Galvanized Fittings, Add   | 100.13                    |                         |
| 23 21 13 23-1006 EA 1-1/2" Plain End Piping System, Bull Plug.....                             | 351.39                    | 11.70                   |
| For Galvanized Fittings, Add   | 100.13                    |                         |
| 23 21 13 23-1007 EA 2" Plain End Piping System, Bull Plug.....                                 | 356.96                    | 15.51                   |
| For Galvanized Fittings, Add   | 100.13                    |                         |
| 23 21 13 23-1008 EA 2-1/2" Plain End Piping System, Bull Plug.....                             | 361.97                    | 18.75                   |
| For Galvanized Fittings, Add   | 100.13                    |                         |
| 23 21 13 23-1009 EA 3" Plain End Piping System, Bull Plug.....                                 | 523.10                    | 22.56                   |
| For Galvanized Fittings, Add   | 146.78                    |                         |
| 23 21 13 23-1010 EA 4" Plain End Piping System, Bull Plug.....                                 | 677.07                    | 30.03                   |
| For Galvanized Fittings, Add   | 189.59                    |                         |
| 23 21 13 23-1011 EA 5" Plain End Piping System, Bull Plug.....                                 | 1,173.20                  | 37.64                   |
| For Galvanized Fittings, Add   | 335.05                    |                         |
| 23 21 13 23-1012 EA 6" Plain End Piping System, Bull Plug.....                                 | 1,562.87                  | 48.92                   |
| For Galvanized Fittings, Add   | 446.87                    |                         |
| 23 21 13 23-1013 EA 8" Plain End Piping System, Bull Plug.....                                 | 2,887.83                  | 58.22                   |
| For Galvanized Fittings, Add   | 840.13                    |                         |
| 23 21 13 23-1014 EA 10" Plain End Piping System, Bull Plug.....                                | 5,185.89                  | 68.10                   |
| For Galvanized Fittings, Add   | 1,525.12                  |                         |
| 23 21 13 23-1015 EA 12" Plain End Piping System, Bull Plug.....                                | 7,940.51                  | 81.77                   |
| For Galvanized Fittings, Add   | 2,345.36                  |                         |
| <b>23 21 13 23-1016 Carbon Steel Piping Systems (23 21 13 23)</b>                              |                           |                         |
| <b>23 21 13 23-1017 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-1016)</b>    |                           |                         |
| Note: ASTM A105  |                           |                         |
| <b>23 21 13 23-1018 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b> |                           |                         |
| 23 21 13 23-1019 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....             | 56.70                     | 27.91                   |
| 23 21 13 23-1020 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....             | 63.82                     | 31.15                   |
| 23 21 13 23-1021 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 83.68                     | 34.82                   |
| 23 21 13 23-1022 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....           | 117.76                    | 39.48                   |
| 23 21 13 23-1023 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....           | 134.91                    | 44.41                   |
| 23 21 13 23-1024 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 184.91                    | 56.53                   |
| 23 21 13 23-1025 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....           | 379.64                    | 83.60                   |
| 23 21 13 23-1026 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 544.52                    | 109.97                  |
| 23 21 13 23-1027 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 968.11                    | 108.05                  |
| <b>23 21 13 23-1028 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b> |                           |                         |
| 23 21 13 23-1029 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....             | 63.28                     | 27.91                   |
| 23 21 13 23-1030 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....             | 73.77                     | 31.15                   |
| 23 21 13 23-1031 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 86.74                     | 34.82                   |
| 23 21 13 23-1032 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....           | 121.64                    | 39.48                   |
| 23 21 13 23-1033 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....           | 144.20                    | 44.41                   |
| 23 21 13 23-1034 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 184.72                    | 56.53                   |
| 23 21 13 23-1035 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....           | 436.46                    | 83.60                   |
| 23 21 13 23-1036 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 592.59                    | 109.97                  |
| 23 21 13 23-1037 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....               | 947.31                    | 108.05                  |
| <b>23 21 13 23-1038 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>    |                           |                         |
| 23 21 13 23-1039 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....               | 69.19                     | 34.82                   |
| 23 21 13 23-1040 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....               | 84.74                     | 40.18                   |
| 23 21 13 23-1041 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....                 | 114.55                    | 47.51                   |
| 23 21 13 23-1042 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....             | 155.35                    | 56.53                   |
| 23 21 13 23-1043 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....             | 188.70                    | 67.39                   |
| 23 21 13 23-1044 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....                 | 252.53                    | 83.60                   |
| 23 21 13 23-1045 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....             | 471.16                    | 109.97                  |
| 23 21 13 23-1046 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....                 | 655.69                    | 130.54                  |
| 23 21 13 23-1047 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....                 | 1,284.96                  | 136.41                  |
| <b>23 21 13 23-1048 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>    |                           |                         |
| 23 21 13 23-1049 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....               | 70.99                     | 34.82                   |
| 23 21 13 23-1050 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....               | 86.60                     | 40.18                   |
| 23 21 13 23-1051 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....                 | 116.78                    | 47.51                   |
| 23 21 13 23-1052 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....             | 160.63                    | 56.53                   |
| 23 21 13 23-1053 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....             | 194.89                    | 67.39                   |
| 23 21 13 23-1054 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....                 | 262.04                    | 83.60                   |
| 23 21 13 23-1055 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....             | 493.75                    | 109.97                  |
| 23 21 13 23-1056 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....                 | 688.21                    | 130.54                  |
| 23 21 13 23-1057 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....                 | 1,169.23                  | 136.41                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| <b>23 21 13 23-1058</b>  | <b>Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b> |                         |
| 23 21 13 23-1059 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....    | 48.59   | 27.91                   |
| 23 21 13 23-1060 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....    | 54.84   | 31.15                   |
| 23 21 13 23-1061 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....      | 64.61   | 34.82                   |
| 23 21 13 23-1062 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....  | 74.73   | 39.48                   |
| 23 21 13 23-1063 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....  | 87.66   | 44.41                   |
| 23 21 13 23-1064 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....      | 115.37  | 56.53                   |
| 23 21 13 23-1065 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB..... | 202.49  | 83.60                   |
| 23 21 13 23-1066 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....      | 271.33  | 109.97                  |
| 23 21 13 23-1067 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....      | 374.28  | 108.05                  |
| <b>23 21 13 23-1068</b>  | <b>Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b> |                         |
| 23 21 13 23-1069 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....    | 52.26   | 27.91                   |
| 23 21 13 23-1070 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....    | 58.87   | 31.15                   |
| 23 21 13 23-1071 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....      | 71.05   | 34.82                   |
| 23 21 13 23-1072 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....  | 82.51   | 39.48                   |
| 23 21 13 23-1073 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....  | 99.21   | 44.41                   |
| 23 21 13 23-1074 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....      | 127.71  | 56.53                   |
| 23 21 13 23-1075 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....  | 229.68  | 83.60                   |
| 23 21 13 23-1076 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....      | 326.02  | 109.97                  |
| 23 21 13 23-1077 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....      | 487.96  | 108.05                  |
| <b>23 21 13 23-1078</b>  | <b>Caps, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>               |                         |
| 23 21 13 23-1079 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                   | 30.36   | 13.11                   |
| 23 21 13 23-1080 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                   | 35.02   | 13.96                   |
| 23 21 13 23-1081 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                     | 41.20   | 16.07                   |
| 23 21 13 23-1082 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                 | 48.41   | 17.48                   |
| 23 21 13 23-1083 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                 | 56.59   | 17.48                   |
| 23 21 13 23-1084 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                     | 73.47   | 22.41                   |
| 23 21 13 23-1085 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                 | 135.45  | 27.91                   |
| 23 21 13 23-1086 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                     | 198.12  | 33.70                   |
| 23 21 13 23-1087 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....                     | 285.63  | 36.98                   |
| <b>23 21 13 23-1088</b>  | <b>Black Cast Iron Square Head Plug (23 21 13 23-1017)</b>                      |                         |
| 23 21 13 23-1089 EA 1/2" Square Head Plug, Black, Cast Iron.....                         | 18.96   | 11.14                   |
| 23 21 13 23-1090 EA 3/4" Square Head Plug, Black, Cast Iron.....                         | 22.45   | 11.14                   |
| 23 21 13 23-1091 EA 1" Square Head Plug, Black, Cast Iron.....                           | 31.76   | 16.91                   |
| 23 21 13 23-1092 EA 1-1/4" Square Head Plug, Black, Cast Iron.....                       | 32.46   | 16.91                   |
| 23 21 13 23-1093 EA 1-1/2" Square Head Plug, Black, Cast Iron.....                       | 35.36   | 16.91                   |
| 23 21 13 23-1094 EA 2" Square Head Plug, Black, Cast Iron.....                           | 46.78   | 22.41                   |
| 23 21 13 23-1095 EA 2-1/2" Square Head Plug, Black, Cast Iron.....                       | 60.75   | 27.91                   |
| 23 21 13 23-1096 EA 3" Square Head Plug, Black, Cast Iron.....                           | 81.00   | 33.70                   |
| 23 21 13 23-1097 EA 4" Square Head Plug, Black, Cast Iron.....                           | 91.28   | 36.98                   |
| <b>23 21 13 23-1098</b>  | <b>Unions, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>             |                         |
| 23 21 13 23-1099 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....                 | 90.44   | 34.82                   |
| 23 21 13 23-1100 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....                 | 99.46   | 40.18                   |
| 23 21 13 23-1101 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....                   | 128.52  | 47.51                   |
| 23 21 13 23-1102 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....               | 163.79  | 56.53                   |
| 23 21 13 23-1103 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....               | 197.61  | 67.39                   |
| 23 21 13 23-1104 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....                   | 247.33  | 83.60                   |
| 23 21 13 23-1105 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....               | 448.66  | 90.79                   |
| 23 21 13 23-1106 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....                   | 607.73  | 109.97                  |
| <b>23 21 13 23-1107</b>  | <b>Class 6,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-1016)</b>      |                         |
| Note: ASTM A105  |   |                         |
| <b>23 21 13 23-1108</b>  | <b>90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>    |                         |
| 23 21 13 23-1109 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....       | 64.63   | 27.91                   |
| 23 21 13 23-1110 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....       | 72.88   | 31.15                   |
| 23 21 13 23-1111 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....         | 100.39  | 34.82                   |
| 23 21 13 23-1112 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....     | 148.91  | 39.48                   |
| 23 21 13 23-1113 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....     | 171.16  | 44.41                   |
| 23 21 13 23-1114 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....         | 238.15  | 56.53                   |
| 23 21 13 23-1115 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....     | 514.72  | 83.60                   |
| 23 21 13 23-1116 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....         | 746.14  | 109.97                  |
| 23 21 13 23-1117 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....         | 1,396.28  | 108.05                  |
| <b>23 21 13 23-1118</b>  | <b>45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>    |                         |
| 23 21 13 23-1119 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....       | 75.46   | 27.91                   |
| 23 21 13 23-1120 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....       | 89.07   | 31.15                   |
| 23 21 13 23-1121 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....         | 106.28  | 34.82                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1122 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....             | 157.05                    | 39.48                   |
| 23 21 13 23-1123 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....             | 188.10                    | 44.41                   |
| 23 21 13 23-1124 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....                 | 241.37                    | 56.53                   |
| 23 21 13 23-1125 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....             | 612.64                    | 83.60                   |
| 23 21 13 23-1126 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....                 | 834.76                    | 109.97                  |
| 23 21 13 23-1127 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....                 | 1,392.00                  | 108.05                  |
| <b>23 21 13 23-1128 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>      |                           |                         |
| 23 21 13 23-1129 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....                 | 84.90                     | 34.82                   |
| 23 21 13 23-1130 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....                 | 107.43                    | 40.18                   |
| 23 21 13 23-1131 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....                   | 154.70                    | 47.51                   |
| 23 21 13 23-1132 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....               | 220.81                    | 56.53                   |
| 23 21 13 23-1133 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....               | 269.87                    | 67.39                   |
| 23 21 13 23-1134 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....                   | 370.36                    | 83.60                   |
| 23 21 13 23-1135 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....               | 754.83                    | 109.97                  |
| 23 21 13 23-1136 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....                   | 1,081.62                  | 130.54                  |
| 23 21 13 23-1137 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....                   | 2,285.65                  | 136.41                  |
| <b>23 21 13 23-1138 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>      |                           |                         |
| 23 21 13 23-1139 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....                 | 70.99                     | 34.82                   |
| 23 21 13 23-1140 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....                 | 86.60                     | 40.18                   |
| 23 21 13 23-1141 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....                   | 116.78                    | 47.51                   |
| 23 21 13 23-1142 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....               | 160.63                    | 56.53                   |
| 23 21 13 23-1143 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....               | 194.89                    | 67.39                   |
| 23 21 13 23-1144 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....                   | 262.04                    | 83.60                   |
| 23 21 13 23-1145 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....               | 493.75                    | 109.97                  |
| 23 21 13 23-1146 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....                   | 688.21                    | 130.54                  |
| 23 21 13 23-1147 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....                   | 1,169.23                  | 136.41                  |
| <b>23 21 13 23-1148 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b> |                           |                         |
| 23 21 13 23-1149 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....            | 51.89                     | 27.91                   |
| 23 21 13 23-1150 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....            | 58.74                     | 31.15                   |
| 23 21 13 23-1151 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....              | 70.59                     | 34.82                   |
| 23 21 13 23-1152 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....          | 82.28                     | 39.48                   |
| 23 21 13 23-1153 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....          | 97.82                     | 44.41                   |
| 23 21 13 23-1154 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....              | 130.21                    | 56.53                   |
| 23 21 13 23-1155 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....          | 239.82                    | 83.60                   |
| 23 21 13 23-1156 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....              | 322.81                    | 109.97                  |
| 23 21 13 23-1157 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....              | 476.97                    | 108.05                  |
| <b>23 21 13 23-1158 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b> |                           |                         |
| 23 21 13 23-1159 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....            | 57.30                     | 27.91                   |
| 23 21 13 23-1160 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....            | 64.68                     | 31.15                   |
| 23 21 13 23-1161 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....              | 80.09                     | 34.82                   |
| 23 21 13 23-1162 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....          | 93.74                     | 39.48                   |
| 23 21 13 23-1163 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....          | 114.83                    | 44.41                   |
| 23 21 13 23-1164 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....              | 148.37                    | 56.53                   |
| 23 21 13 23-1165 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....          | 279.78                    | 83.60                   |
| 23 21 13 23-1166 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....              | 403.37                    | 109.97                  |
| 23 21 13 23-1167 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....              | 644.45                    | 108.05                  |
| <b>23 21 13 23-1168 Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>               |                           |                         |
| 23 21 13 23-1169 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                           | 37.59                     | 13.11                   |
| 23 21 13 23-1170 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                           | 44.50                     | 13.96                   |
| 23 21 13 23-1171 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                             | 52.68                     | 16.07                   |
| 23 21 13 23-1172 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                         | 63.37                     | 17.48                   |
| 23 21 13 23-1173 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                         | 77.04                     | 17.48                   |
| 23 21 13 23-1174 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                             | 100.16                    | 22.41                   |
| 23 21 13 23-1175 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                         | 198.32                    | 27.91                   |
| 23 21 13 23-1176 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                             | 297.17                    | 33.70                   |
| 23 21 13 23-1177 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....                             | 440.06                    | 36.98                   |
| <b>23 21 13 23-1178 Black Cast Iron Square Head Plug (23 21 13 23-1107)</b>                      |                           |                         |
| 23 21 13 23-1179 EA 1/2" Square Head Plug, Black Cast Iron.....                                  | 18.97                     | 11.14                   |
| 23 21 13 23-1180 EA 3/4" Square Head Plug, Black Cast Iron.....                                  | 22.48                     | 11.14                   |
| 23 21 13 23-1181 EA 1" Square Head Plug, Black Cast Iron.....                                    | 31.80                     | 16.91                   |
| 23 21 13 23-1182 EA 1-1/4" Square Head Plug, Black Cast Iron.....                                | 32.50                     | 16.91                   |
| 23 21 13 23-1183 EA 1-1/2" Square Head Plug, Black Cast Iron.....                                | 35.41                     | 16.91                   |
| 23 21 13 23-1184 EA 2" Square Head Plug, Black Cast Iron.....                                    | 46.84                     | 22.41                   |
| 23 21 13 23-1185 EA 2-1/2" Square Head Plug, Black Cast Iron.....                                | 60.85                     | 27.91                   |
| 23 21 13 23-1186 EA 3" Square Head Plug, Black Cast Iron.....                                    | 81.15                     | 33.70                   |
| 23 21 13 23-1187 EA 4" Square Head Plug, Black Cast Iron.....                                    | 91.45                     | 36.98                   |



|   | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-------|-----|-----|---|------------------------|----------------------|
| 23 21 13 23-1188  |       |     |     | <b>Unions, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1107)</small>  |                        |                      |
| 23 21 13 23-1189  | EA    |     |     | 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....                                | 113.81                 | 34.82                |
| 23 21 13 23-1190  | EA    |     |     | 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....                                | 123.45                 | 40.18                |
| 23 21 13 23-1191  | EA    |     |     | 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....                                  | 163.58                 | 47.51                |
| 23 21 13 23-1192  | EA    |     |     | 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....                              | 212.17                 | 56.53                |
| 23 21 13 23-1193  | EA    |     |     | 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....                              | 256.65                 | 67.39                |
| 23 21 13 23-1194  | EA    |     |     | 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....                                  | 321.95                 | 83.60                |
| 23 21 13 23-1195  | EA    |     |     | 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....                              | 639.71                 | 90.79                |
| 23 21 13 23-1196  | EA    |     |     | 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....                                  | 878.53                 | 109.97               |
| 23 21 13 23-1197  |       |     |     | <b>Carbon Steel, Seamless Piping System</b> <small>(23 21 13 23-1016)</small>       |                        |                      |
| Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition. |       |     |     |   |                        |                      |
| 23 21 13 23-1198  |       |     |     | <b>Schedule 40, Carbon Steel, Seamless Piping</b> <small>(23 21 13 23-1197)</small> |                        |                      |
| Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.                            |       |     |     |   |                        |                      |
| 23 21 13 23-1199  | LF    |     |     | 1/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....                 | 13.39                  | 5.22                 |
|   |       |     |     | <i>For Schedule 80, Add</i>   | 2.00                   |                      |
| 23 21 13 23-1200  | LF    |     |     | 1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....                 | 13.64                  | 5.64                 |
|   |       |     |     | <i>For Schedule 80, Add</i>   | 1.83                   |                      |
|   |       |     |     | <i>For Schedule 160, Add</i>  | 7.64                   |                      |
| 23 21 13 23-1201  | LF    |     |     | 3/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....                 | 15.33                  | 6.06                 |
|   |       |     |     | <i>For Schedule 80, Add</i>   | 2.24                   |                      |
|   |       |     |     | <i>For Schedule 160, Add</i>  | 9.35                   |                      |
| 23 21 13 23-1202  | LF    |     |     | 1" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....                   | 16.27                  | 6.63                 |
|   |       |     |     | <i>For Schedule 80, Add</i>   | 2.31                   |                      |
|   |       |     |     | <i>For Schedule 160, Add</i>  | 9.63                   |                      |
| 23 21 13 23-1203  | LF    |     |     | 1-1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....               | 22.66                  | 8.18                 |
|   |       |     |     | <i>For Schedule 80, Add</i>   | 3.74                   |                      |
|   |       |     |     | <i>For Schedule 160, Add</i>  | 15.60                  |                      |
| 23 21 13 23-1204  | LF    |     |     | 2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....                   | 27.29                  | 9.86                 |
|   |       |     |     | <i>For Schedule 80, Add</i>   | 4.48                   |                      |
|   |       |     |     | <i>For Schedule 160, Add</i>  | 18.68                  |                      |
| 23 21 13 23-1205  |       |     |     | <b>90 Degree Elbows, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>     |                        |                      |
| 23 21 13 23-1206  | EA    |     |     | 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                           | 41.57                  | 21.43                |
| 23 21 13 23-1207  | EA    |     |     | 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                           | 50.52                  | 25.10                |
| 23 21 13 23-1208  | EA    |     |     | 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                           | 56.42                  | 28.06                |
| 23 21 13 23-1209  | EA    |     |     | 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                             | 65.06                  | 31.29                |
| 23 21 13 23-1210  | EA    |     |     | 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                         | 106.65                 | 40.04                |
| 23 21 13 23-1211  | EA    |     |     | 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                             | 135.09                 | 50.89                |
| 23 21 13 23-1212  | EA    |     |     | 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                           | 44.57                  | 21.43                |
| 23 21 13 23-1213  | EA    |     |     | 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                           | 51.64                  | 25.10                |
| 23 21 13 23-1214  | EA    |     |     | 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                           | 60.13                  | 28.06                |
| 23 21 13 23-1215  | EA    |     |     | 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                             | 73.13                  | 31.29                |
| 23 21 13 23-1216  | EA    |     |     | 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                         | 125.92                 | 40.04                |
| 23 21 13 23-1217  | EA    |     |     | 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                             | 156.38                 | 50.89                |
| 23 21 13 23-1218  | EA    |     |     | 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                           | 62.13                  | 25.10                |
| 23 21 13 23-1219  | EA    |     |     | 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                           | 73.33                  | 28.06                |
| 23 21 13 23-1220  | EA    |     |     | 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                             | 87.00                  | 31.29                |
| 23 21 13 23-1221  | EA    |     |     | 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                         | 164.90                 | 40.04                |
| 23 21 13 23-1222  | EA    |     |     | 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                             | 259.77                 | 50.89                |
| 23 21 13 23-1223  |       |     |     | <b>45 Degree Elbows, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>     |                        |                      |
| 23 21 13 23-1224  | EA    |     |     | 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                           | 47.76                  | 21.43                |
| 23 21 13 23-1225  | EA    |     |     | 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                           | 52.94                  | 25.10                |
| 23 21 13 23-1226  | EA    |     |     | 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                           | 59.55                  | 28.06                |
| 23 21 13 23-1227  | EA    |     |     | 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                             | 67.44                  | 31.29                |
| 23 21 13 23-1228  | EA    |     |     | 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                         | 98.96                  | 40.04                |
| 23 21 13 23-1229  | EA    |     |     | 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....                             | 146.96                 | 50.89                |
| 23 21 13 23-1230  | EA    |     |     | 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                           | 48.24                  | 21.43                |
| 23 21 13 23-1231  | EA    |     |     | 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                           | 55.69                  | 25.10                |
| 23 21 13 23-1232  | EA    |     |     | 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                           | 62.71                  | 28.06                |
| 23 21 13 23-1233  | EA    |     |     | 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                             | 75.68                  | 31.29                |
| 23 21 13 23-1234  | EA    |     |     | 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                         | 122.94                 | 40.04                |
| 23 21 13 23-1235  | EA    |     |     | 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                             | 163.02                 | 50.89                |
| 23 21 13 23-1236  | EA    |     |     | 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                           | 69.37                  | 25.10                |
| 23 21 13 23-1237  | EA    |     |     | 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                           | 86.40                  | 28.06                |
| 23 21 13 23-1238  | EA    |     |     | 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                             | 91.91                  | 31.29                |
| 23 21 13 23-1239  | EA    |     |     | 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                         | 192.71                 | 40.04                |
| 23 21 13 23-1240  | EA    |     |     | 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                             | 261.61                 | 50.89                |
| 23 21 13 23-1241  |       |     |     | <b>Straight Tees, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>        |                        |                      |
| 23 21 13 23-1242  | EA    |     |     | 1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....                             | 55.55                  | 29.74                |
| 23 21 13 23-1243  | EA    |     |     | 1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....                             | 63.73                  | 31.29                |
| 23 21 13 23-1244  | EA    |     |     | 3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....                             | 77.05                  | 36.23                |
| 23 21 13 23-1245  | EA    |     |     | 1" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....                               | 95.30                  | 42.72                |
| 23 21 13 23-1246  | EA    |     |     | 1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....                           | 156.60                 | 60.63                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-1247 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....           | 194.17                    | 75.29                   |
| 23 21 13 23-1248 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....         | 58.11                     | 29.74                   |
| 23 21 13 23-1249 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....         | 65.40                     | 31.29                   |
| 23 21 13 23-1250 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....         | 82.62                     | 36.23                   |
| 23 21 13 23-1251 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....           | 100.08                    | 42.72                   |
| 23 21 13 23-1252 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....       | 173.13                    | 60.63                   |
| 23 21 13 23-1253 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....           | 221.52                    | 75.29                   |
| 23 21 13 23-1254 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....         | 77.98                     | 31.29                   |
| 23 21 13 23-1255 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....         | 96.14                     | 36.23                   |
| 23 21 13 23-1256 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....           | 133.50                    | 42.72                   |
| 23 21 13 23-1257 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....       | 211.10                    | 60.63                   |
| 23 21 13 23-1258 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....           | 342.57                    | 75.29                   |
| <b>23 21 13 23-1259 Crosses, Screwed Carbon Steel (23 21 13 23-1197)</b>            |                           |                         |
| 23 21 13 23-1260 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel.....                 | 85.62                     | 37.64                   |
| 23 21 13 23-1261 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel.....                 | 102.24                    | 42.29                   |
| 23 21 13 23-1262 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel.....                 | 110.09                    | 45.11                   |
| 23 21 13 23-1263 EA 1" Cross, 2,000 LB, Screwed Carbon Steel.....                   | 136.84                    | 54.42                   |
| 23 21 13 23-1264 EA 1-1/2" Cross, 2,000 LB, Screwed Carbon Steel.....               | 247.22                    | 76.13                   |
| 23 21 13 23-1265 EA 2" Cross, 2,000 LB, Screwed Carbon Steel.....                   | 321.28                    | 94.03                   |
| 23 21 13 23-1266 EA 1/2" Cross, 3,000 LB, Screwed Carbon Steel.....                 | 105.39                    | 42.29                   |
| 23 21 13 23-1267 EA 3/4" Cross, 3,000 LB, Screwed Carbon Steel.....                 | 128.16                    | 45.11                   |
| 23 21 13 23-1268 EA 1" Cross, 3,000 LB, Screwed Carbon Steel.....                   | 152.66                    | 54.42                   |
| 23 21 13 23-1269 EA 1-1/2" Cross, 3,000 LB, Screwed Carbon Steel.....               | 270.03                    | 76.13                   |
| 23 21 13 23-1270 EA 2" Cross, 3,000 LB, Screwed Carbon Steel.....                   | 362.94                    | 94.03                   |
| 23 21 13 23-1271 EA 1/2" Cross, 6,000 LB, Screwed Carbon Steel.....                 | 164.27                    | 42.29                   |
| 23 21 13 23-1272 EA 3/4" Cross, 6,000 LB, Screwed Carbon Steel.....                 | 288.89                    | 45.11                   |
| 23 21 13 23-1273 EA 1" Cross, 6,000 LB, Screwed Carbon Steel.....                   | 400.33                    | 54.42                   |
| 23 21 13 23-1274 EA 1-1/2" Cross, 6,000 LB, Screwed Carbon Steel.....               | 638.32                    | 76.13                   |
| 23 21 13 23-1275 EA 2" Cross, 6,000 LB, Screwed Carbon Steel.....                   | 694.10                    | 94.03                   |
| <b>23 21 13 23-1276 Straight Couplings, Screwed Carbon Steel (23 21 13 23-1197)</b> |                           |                         |
| 23 21 13 23-1277 EA 1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....    | 37.64                     | 21.43                   |
| 23 21 13 23-1278 EA 1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....    | 42.82                     | 25.10                   |
| 23 21 13 23-1279 EA 3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....    | 49.27                     | 28.06                   |
| 23 21 13 23-1280 EA 1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....      | 57.81                     | 31.29                   |
| 23 21 13 23-1281 EA 1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....  | 87.22                     | 40.04                   |
| 23 21 13 23-1282 EA 2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....      | 110.67                    | 50.89                   |
| 23 21 13 23-1283 EA 1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....    | 45.19                     | 21.43                   |
| 23 21 13 23-1284 EA 1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....    | 47.60                     | 25.10                   |
| 23 21 13 23-1285 EA 3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....    | 52.94                     | 28.06                   |
| 23 21 13 23-1286 EA 1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....      | 62.70                     | 31.29                   |
| 23 21 13 23-1287 EA 1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....  | 94.69                     | 40.04                   |
| 23 21 13 23-1288 EA 2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....      | 137.95                    | 50.89                   |
| <b>23 21 13 23-1289 Reducing Couplings, Screwed Carbon Steel (23 21 13 23-1197)</b> |                           |                         |
| 23 21 13 23-1290 EA 1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....    | 38.69                     | 22.84                   |
| 23 21 13 23-1291 EA 1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....    | 45.30                     | 25.10                   |
| 23 21 13 23-1292 EA 3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....    | 53.05                     | 28.06                   |
| 23 21 13 23-1293 EA 1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....      | 63.06                     | 31.29                   |
| 23 21 13 23-1294 EA 1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....  | 88.58                     | 40.04                   |
| 23 21 13 23-1295 EA 2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....      | 118.03                    | 50.89                   |
| 23 21 13 23-1296 EA 1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....    | 141.95                    | 25.10                   |
| 23 21 13 23-1297 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....    | 146.43                    | 28.06                   |
| 23 21 13 23-1298 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....      | 171.90                    | 31.29                   |
| 23 21 13 23-1299 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....  | 249.57                    | 40.04                   |
| 23 21 13 23-1300 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....      | 361.71                    | 50.89                   |
| <b>23 21 13 23-1301 Caps, Screwed Carbon Steel (23 21 13 23-1197)</b>               |                           |                         |
| 23 21 13 23-1302 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel.....                   | 18.86                     | 9.58                    |
| 23 21 13 23-1303 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel.....                   | 21.72                     | 11.14                   |
| 23 21 13 23-1304 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel.....                   | 25.67                     | 12.55                   |
| 23 21 13 23-1305 EA 1" Cap, 3,000 LB, Screwed Carbon Steel.....                     | 31.49                     | 13.96                   |
| 23 21 13 23-1306 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel.....                 | 43.51                     | 17.77                   |
| 23 21 13 23-1307 EA 2" Cap, 3,000 LB, Screwed Carbon Steel.....                     | 59.98                     | 22.70                   |
| 23 21 13 23-1308 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel.....                   | 27.92                     | 9.58                    |
| 23 21 13 23-1309 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel.....                   | 27.53                     | 11.14                   |
| 23 21 13 23-1310 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel.....                   | 35.13                     | 12.55                   |
| 23 21 13 23-1311 EA 1" Cap, 6,000 LB, Screwed Carbon Steel.....                     | 38.40                     | 13.96                   |
| 23 21 13 23-1312 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel.....                 | 71.66                     | 17.77                   |
| 23 21 13 23-1313 EA 2" Cap, 6,000 LB, Screwed Carbon Steel.....                     | 87.39                     | 22.70                   |
| <b>23 21 13 23-1314 Nipples, Screwed Carbon Steel (23 21 13 23-1197)</b>            |                           |                         |
| 23 21 13 23-1315 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel.....                 | 23.24                     | 12.83                   |
| 23 21 13 23-1316 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel.....                 | 23.58                     | 13.39                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-1317 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel .....                              | 23.35                     | 13.39                   |
| 23 21 13 23-1318 EA 1" Nipple, 2" Long, Screwed Carbon Steel .....                                | 26.27                     | 14.52                   |
| 23 21 13 23-1319 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel .....                            | 30.42                     | 15.65                   |
| 23 21 13 23-1320 EA 2" Nipple, 2" Long, Screwed Carbon Steel .....                                | 35.53                     | 20.16                   |
| 23 21 13 23-1321 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel .....                              | 24.97                     | 12.83                   |
| 23 21 13 23-1322 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel .....                              | 24.95                     | 13.39                   |
| 23 21 13 23-1323 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel .....                              | 24.90                     | 13.39                   |
| 23 21 13 23-1324 EA 1" Nipple, 4" Long, Screwed Carbon Steel .....                                | 28.36                     | 14.52                   |
| 23 21 13 23-1325 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel .....                            | 34.15                     | 15.65                   |
| 23 21 13 23-1326 EA 2" Nipple, 4" Long, Screwed Carbon Steel .....                                | 40.99                     | 20.16                   |
| 23 21 13 23-1327 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel .....                              | 29.11                     | 12.83                   |
| 23 21 13 23-1328 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel .....                              | 27.13                     | 13.39                   |
| 23 21 13 23-1329 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel .....                              | 27.33                     | 13.39                   |
| 23 21 13 23-1330 EA 1" Nipple, 6" Long, Screwed Carbon Steel .....                                | 31.37                     | 14.52                   |
| 23 21 13 23-1331 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel .....                            | 39.25                     | 15.65                   |
| 23 21 13 23-1332 EA 2" Nipple, 6" Long, Screwed Carbon Steel .....                                | 45.51                     | 20.16                   |
| <br>  |                           |                         |
| <b>23 21 13 23-1333 Unions, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>            |                           |                         |
| 23 21 13 23-1334 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel .....                              | 48.41                     | 31.15                   |
| 23 21 13 23-1335 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel .....                              | 49.95                     | 31.29                   |
| 23 21 13 23-1336 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel .....                              | 57.26                     | 36.23                   |
| 23 21 13 23-1337 EA 1" Union, 3,000 LB, Screwed Carbon Steel .....                                | 68.53                     | 42.72                   |
| 23 21 13 23-1338 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel .....                            | 98.42                     | 60.63                   |
| 23 21 13 23-1339 EA 2" Union, 3,000 LB, Screwed Carbon Steel .....                                | 122.24                    | 75.29                   |
| 23 21 13 23-1340 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel .....                              | 88.50                     | 31.15                   |
| 23 21 13 23-1341 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel .....                              | 98.41                     | 31.29                   |
| 23 21 13 23-1342 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel .....                              | 115.95                    | 36.23                   |
| 23 21 13 23-1343 EA 1" Union, 6,000 LB, Screwed Carbon Steel .....                                | 140.86                    | 42.72                   |
| 23 21 13 23-1344 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel .....                            | 246.32                    | 60.63                   |
| 23 21 13 23-1345 EA 2" Union, 6,000 LB, Screwed Carbon Steel .....                                | 304.27                    | 75.29                   |
| <br>  |                           |                         |
| <b>23 21 13 23-1346 Weld Neck Flanges, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small> |                           |                         |
| 23 21 13 23-1347 EA 1/2" Flange, 150 LB, Screwed Carbon Steel .....                               | 108.68                    | 58.22                   |
| 23 21 13 23-1348 EA 3/4" Flange, 150 LB, Screwed Carbon Steel .....                               | 113.60                    | 61.05                   |
| 23 21 13 23-1349 EA 1" Flange, 150 LB, Screwed Carbon Steel .....                                 | 117.57                    | 63.72                   |
| 23 21 13 23-1350 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel .....                             | 130.38                    | 71.76                   |
| 23 21 13 23-1351 EA 2" Flange, 150 LB, Screwed Carbon Steel .....                                 | 135.07                    | 74.87                   |
| 23 21 13 23-1352 EA 1/2" Flange, 300 LB, Screwed Carbon Steel .....                               | 110.04                    | 58.22                   |
| For Ring Type Joint, Add  | 22.67                     |                         |
| For Blind Flange, Deduct  | -39.48                    |                         |
| 23 21 13 23-1353 EA 3/4" Flange, 300 LB, Screwed Carbon Steel .....                               | 115.04                    | 61.05                   |
| For Ring Type Joint, Add  | 23.44                     |                         |
| For Blind Flange, Deduct  | -41.33                    |                         |
| 23 21 13 23-1354 EA 1" Flange, 300 LB, Screwed Carbon Steel .....                                 | 119.75                    | 63.72                   |
| For Ring Type Joint, Add  | 24.18                     |                         |
| For Blind Flange, Deduct  | -43.06                    |                         |
| 23 21 13 23-1355 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel .....                             | 135.59                    | 71.76                   |
| For Ring Type Joint, Add  | 27.97                     |                         |
| For Blind Flange, Deduct  | -48.64                    |                         |
| 23 21 13 23-1356 EA 2" Flange, 300 LB, Screwed Carbon Steel .....                                 | 140.28                    | 74.87                   |
| For Ring Type Joint, Add  | 27.97                     |                         |
| For Blind Flange, Deduct  | -50.52                    |                         |
| 23 21 13 23-1357 EA 1/2" Flange, 600 LB, Screwed Carbon Steel .....                               | 118.96                    | 58.22                   |
| For Ring Type Joint, Add  | 31.59                     |                         |
| For Blind Flange, Deduct  | -41.27                    |                         |
| 23 21 13 23-1358 EA 3/4" Flange, 600 LB, Screwed Carbon Steel .....                               | 123.19                    | 61.05                   |
| For Ring Type Joint, Add  | 31.59                     |                         |
| For Blind Flange, Deduct  | -42.96                    |                         |
| 23 21 13 23-1359 EA 1" Flange, 600 LB, Screwed Carbon Steel .....                                 | 128.60                    | 63.72                   |
| For Ring Type Joint, Add  | 33.03                     |                         |
| For Blind Flange, Deduct  | -44.83                    |                         |
| 23 21 13 23-1360 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel .....                             | 146.56                    | 71.76                   |
| For Ring Type Joint, Add  | 38.94                     |                         |
| For Blind Flange, Deduct  | -50.84                    |                         |
| 23 21 13 23-1361 EA 2" Flange, 600 LB, Screwed Carbon Steel .....                                 | 148.55                    | 74.87                   |
| For Ring Type Joint, Add  | 36.24                     |                         |
| For Blind Flange, Deduct  | -52.17                    |                         |
| <br>  |                           |                         |
| <b>23 21 13 23-1362 Square Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small> |                           |                         |
| 23 21 13 23-1363 EA 1/4" Square Head Plug, Screwed Carbon Steel .....                             | 7.91                      | 3.95                    |
| 23 21 13 23-1364 EA 1/2" Square Head Plug, Screwed Carbon Steel .....                             | 9.47                      | 4.66                    |
| 23 21 13 23-1365 EA 3/4" Square Head Plug, Screwed Carbon Steel .....                             | 11.04                     | 5.36                    |
| 23 21 13 23-1366 EA 1" Square Head Plug, Screwed Carbon Steel .....                               | 16.08                     | 7.89                    |
| 23 21 13 23-1367 EA 1-1/2" Square Head Plug, Screwed Carbon Steel .....                           | 21.34                     | 7.89                    |
| 23 21 13 23-1368 EA 2" Square Head Plug, Screwed Carbon Steel .....                               | 31.25                     | 10.29                   |
| <br>  |                           |                         |
| <b>23 21 13 23-1369 Hex Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>    |                           |                         |
| 23 21 13 23-1370 EA 1/4" Hex Head Plug, Screwed Carbon Steel .....                                | 7.39                      | 3.95                    |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1371 EA 1/2" Hex Head Plug, Screwed Carbon Steel.....                            | 8.98                      | 4.66                    |
| 23 21 13 23-1372 EA 3/4" Hex Head Plug, Screwed Carbon Steel.....                            | 10.73                     | 5.36                    |
| 23 21 13 23-1373 EA 1" Hex Head Plug, Screwed Carbon Steel.....                              | 15.79                     | 7.89                    |
| 23 21 13 23-1374 EA 1-1/2" Hex Head Plug, Screwed Carbon Steel.....                          | 20.18                     | 7.89                    |
| 23 21 13 23-1375 EA 2" Hex Head Plug, Screwed Carbon Steel.....                              | 32.08                     | 10.29                   |
| <b>23 21 13 23-1376 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1197)</b>            |                           |                         |
| 23 21 13 23-1377 EA 1/4" Round Head Plug, Screwed Carbon Steel.....                          | 9.09                      | 3.95                    |
| 23 21 13 23-1378 EA 1/2" Round Head Plug, Screwed Carbon Steel.....                          | 9.54                      | 4.66                    |
| 23 21 13 23-1379 EA 3/4" Round Head Plug, Screwed Carbon Steel.....                          | 10.82                     | 5.36                    |
| 23 21 13 23-1380 EA 1" Round Head Plug, Screwed Carbon Steel.....                            | 16.26                     | 7.89                    |
| 23 21 13 23-1381 EA 1-1/2" Round Head Plug, Screwed Carbon Steel.....                        | 22.80                     | 7.89                    |
| 23 21 13 23-1382 EA 2" Round Head Plug, Screwed Carbon Steel.....                            | 31.76                     | 10.29                   |
| <b>23 21 13 23-1383 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1197)</b>            |                           |                         |
| 23 21 13 23-1384 EA 1/4" Hex Bushing, Screwed Carbon Steel.....                              | 7.78                      | 3.95                    |
| 23 21 13 23-1385 EA 1/2" Hex Bushing, Screwed Carbon Steel.....                              | 8.96                      | 4.66                    |
| 23 21 13 23-1386 EA 3/4" Hex Bushing, Screwed Carbon Steel.....                              | 10.59                     | 5.36                    |
| 23 21 13 23-1387 EA 1" Hex Bushing, Screwed Carbon Steel.....                                | 16.17                     | 7.89                    |
| 23 21 13 23-1388 EA 1-1/2" Hex Bushing, Screwed Carbon Steel.....                            | 20.08                     | 7.89                    |
| 23 21 13 23-1389 EA 2" Hex Bushing, Screwed Carbon Steel.....                                | 30.86                     | 10.29                   |
| <b>23 21 13 23-1390 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1197)</b>     |                           |                         |
| 23 21 13 23-1391 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                | 51.16                     | 21.43                   |
| 23 21 13 23-1392 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                | 58.05                     | 25.10                   |
| 23 21 13 23-1393 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                | 68.37                     | 28.06                   |
| 23 21 13 23-1394 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                  | 80.62                     | 31.29                   |
| 23 21 13 23-1395 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....              | 131.97                    | 40.04                   |
| 23 21 13 23-1396 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....                  | 179.00                    | 50.89                   |
| 23 21 13 23-1397 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                | 85.44                     | 25.10                   |
| 23 21 13 23-1398 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                | 124.07                    | 28.06                   |
| 23 21 13 23-1399 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....                  | 173.83                    | 31.29                   |
| 23 21 13 23-1400 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....              | 388.38                    | 40.04                   |
| <b>23 21 13 23-1401 Screwed Carbon Steel Laterals (23 21 13 23-1197)</b>                     |                           |                         |
| 23 21 13 23-1402 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....              | 235.69                    | 31.29                   |
| 23 21 13 23-1403 EA 3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....              | 283.95                    | 36.23                   |
| 23 21 13 23-1404 EA 1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....                | 347.97                    | 42.72                   |
| 23 21 13 23-1405 EA 1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....            | 445.40                    | 60.63                   |
| 23 21 13 23-1406 EA 2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....                | 555.86                    | 75.29                   |
| 23 21 13 23-1407 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....              | 299.69                    | 31.29                   |
| 23 21 13 23-1408 EA 3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....              | 379.12                    | 36.23                   |
| 23 21 13 23-1409 EA 1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....                | 449.73                    | 42.72                   |
| 23 21 13 23-1410 EA 1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....            | 632.49                    | 60.63                   |
| <b>23 21 13 23-1411 Grooved-Joint Pipe (23 21 13 23)</b>                                     |                           |                         |
| Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings. |                           |                         |
| <b>23 21 13 23-1412 Schedule 10 Black Grooved Pipe (23 21 13 23-1411)</b>                    |                           |                         |
| 23 21 13 23-1413 LF 2" Black Schedule 10 Grooved Pipe.....                                   | 43.23                     | 17.91                   |
| 23 21 13 23-1414 LF 2-1/2" Black Schedule 10 Grooved Pipe.....                               | 58.14                     | 24.53                   |
| 23 21 13 23-1415 LF 3" Black Schedule 10 Grooved Pipe.....                                   | 65.43                     | 27.21                   |
| 23 21 13 23-1416 LF 3-1/2" Black Schedule 10 Grooved Pipe.....                               | 73.88                     | 28.20                   |
| 23 21 13 23-1417 LF 4" Black Schedule 10 Grooved Pipe.....                                   | 78.19                     | 30.59                   |
| 23 21 13 23-1418 LF 5" Black Schedule 10 Grooved Pipe.....                                   | 112.99                    | 37.50                   |
| 23 21 13 23-1419 LF 6" Black Schedule 10 Grooved Pipe.....                                   | 143.44                    | 53.30                   |
| 23 21 13 23-1420 LF 8" Black Schedule 10 Grooved Pipe.....                                   | 201.88                    | 59.77                   |
| 23 21 13 23-1421 LF 10" Black Schedule 10 Grooved Pipe.....                                  | 254.38                    | 72.04                   |
| 23 21 13 23-1422 LF 12" Black Schedule 10 Grooved Pipe.....                                  | 294.12                    | 81.63                   |
| <b>23 21 13 23-1423 Schedule 40 Black Grooved Pipe (23 21 13 23-1411)</b>                    |                           |                         |
| 23 21 13 23-1424 LF 3/4" Black Schedule 40 Grooved Pipe.....                                 | 25.88                     | 10.86                   |
| 23 21 13 23-1425 LF 1" Black Schedule 40 Grooved Pipe.....                                   | 29.24                     | 12.27                   |
| 23 21 13 23-1426 LF 1-1/4" Black Schedule 40 Grooved Pipe.....                               | 33.53                     | 13.25                   |
| 23 21 13 23-1427 LF 1-1/2" Black Schedule 40 Grooved Pipe.....                               | 38.16                     | 15.08                   |
| 23 21 13 23-1428 LF 2" Black Schedule 40 Grooved Pipe.....                                   | 48.01                     | 19.18                   |
| 23 21 13 23-1429 LF 2-1/2" Black Schedule 40 Grooved Pipe.....                               | 67.06                     | 26.23                   |
| 23 21 13 23-1430 LF 3" Black Schedule 40 Grooved Pipe.....                                   | 79.62                     | 29.89                   |
| 23 21 13 23-1431 LF 4" Black Schedule 40 Grooved Pipe.....                                   | 99.26                     | 33.27                   |
| 23 21 13 23-1432 LF 5" Black Schedule 40 Grooved Pipe.....                                   | 139.08                    | 40.46                   |
| 23 21 13 23-1433 LF 6" Black Schedule 40 Grooved Pipe.....                                   | 185.34                    | 58.36                   |
| 23 21 13 23-1434 LF 8" Black Schedule 40 Grooved Pipe.....                                   | 251.14                    | 66.12                   |
| 23 21 13 23-1435 LF 10" Black Schedule 40 Grooved Pipe.....                                  | 351.72                    | 78.95                   |
| 23 21 13 23-1436 LF 12" Black Schedule 40 Grooved Pipe.....                                  | 415.37                    | 90.65                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1437 LF 14" Black Schedule 40 Grooved Pipe .....                   | 547.06                    | 122.51                  |
| 23 21 13 23-1438 LF 16" Black Schedule 40 Grooved Pipe .....                   | 633.72                    | 144.08                  |
| 23 21 13 23-1439 LF 18" Black Schedule 40 Grooved Pipe .....                   | 788.49                    | 174.96                  |
| 23 21 13 23-1440 LF 20" Black Schedule 40 Grooved Pipe .....                   | 908.16                    | 204.00                  |
| 23 21 13 23-1441 LF 24" Black Schedule 40 Grooved Pipe .....                   | 1,197.21                  | 244.89                  |
| <b>23 21 13 23-1442 Schedule 80 Black Grooved Pipe (23 21 13 23-1411)</b>      |                           |                         |
| 23 21 13 23-1443 LF 3/4" Black Schedule 80 Grooved Pipe .....                  | 28.37                     | 11.85                   |
| 23 21 13 23-1444 LF 1" Black Schedule 80 Grooved Pipe .....                    | 31.74                     | 12.55                   |
| 23 21 13 23-1445 LF 1-1/4" Black Schedule 80 Grooved Pipe .....                | 37.64                     | 13.96                   |
| 23 21 13 23-1446 LF 1-1/2" Black Schedule 80 Grooved Pipe .....                | 42.95                     | 15.65                   |
| 23 21 13 23-1447 LF 2" Black Schedule 80 Grooved Pipe .....                    | 55.59                     | 20.16                   |
| 23 21 13 23-1448 LF 2-1/2" Black Schedule 80 Grooved Pipe .....                | 78.63                     | 27.77                   |
| 23 21 13 23-1449 LF 3" Black Schedule 80 Grooved Pipe .....                    | 94.63                     | 31.15                   |
| 23 21 13 23-1450 LF 4" Black Schedule 80 Grooved Pipe .....                    | 121.21                    | 33.98                   |
| 23 21 13 23-1451 LF 5" Black Schedule 80 Grooved Pipe .....                    | 189.30                    | 42.72                   |
| 23 21 13 23-1452 LF 6" Black Schedule 80 Grooved Pipe .....                    | 243.95                    | 61.19                   |
| 23 21 13 23-1453 LF 8" Black Schedule 80 Grooved Pipe .....                    | 374.85                    | 69.93                   |
| 23 21 13 23-1454 LF 10" Black Schedule 80 Grooved Pipe .....                   | 467.73                    | 84.45                   |
| 23 21 13 23-1455 LF 12" Black Schedule 80 Grooved Pipe .....                   | 486.75                    | 102.07                  |
| <b>23 21 13 23-1456 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1411)</b> |                           |                         |
| 23 21 13 23-1457 LF 3/4" Galvanized Schedule 40 Grooved Pipe .....             | 23.36                     | 10.86                   |
| 23 21 13 23-1458 LF 1" Galvanized Schedule 40 Grooved Pipe .....               | 27.02                     | 12.27                   |
| 23 21 13 23-1459 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe .....           | 30.07                     | 13.25                   |
| 23 21 13 23-1460 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe .....           | 34.23                     | 15.08                   |
| 23 21 13 23-1461 LF 2" Galvanized Schedule 40 Grooved Pipe .....               | 43.31                     | 19.18                   |
| 23 21 13 23-1462 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe .....           | 60.56                     | 26.23                   |
| 23 21 13 23-1463 LF 3" Galvanized Schedule 40 Grooved Pipe .....               | 71.70                     | 29.89                   |
| 23 21 13 23-1464 LF 4" Galvanized Schedule 40 Grooved Pipe .....               | 87.96                     | 33.27                   |
| 23 21 13 23-1465 LF 5" Galvanized Schedule 40 Grooved Pipe .....               | 122.65                    | 40.46                   |
| 23 21 13 23-1466 LF 6" Galvanized Schedule 40 Grooved Pipe .....               | 165.94                    | 58.36                   |
| 23 21 13 23-1467 LF 8" Galvanized Schedule 40 Grooved Pipe .....               | 218.73                    | 66.12                   |
| 23 21 13 23-1468 LF 10" Galvanized Schedule 40 Grooved Pipe .....              | 306.21                    | 78.95                   |
| 23 21 13 23-1469 LF 12" Galvanized Schedule 40 Grooved Pipe .....              | 361.31                    | 90.65                   |
| <b>23 21 13 23-1470 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1411)</b> |                           |                         |
| 23 21 13 23-1471 LF 3/4" Galvanized Schedule 80 Grooved Pipe .....             | 25.12                     | 11.85                   |
| 23 21 13 23-1472 LF 1" Galvanized Schedule 80 Grooved Pipe .....               | 32.32                     | 12.55                   |
| 23 21 13 23-1473 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe .....           | 32.87                     | 13.96                   |
| 23 21 13 23-1474 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe .....           | 42.74                     | 16.63                   |
| 23 21 13 23-1475 LF 2" Galvanized Schedule 80 Grooved Pipe .....               | 48.54                     | 20.16                   |
| 23 21 13 23-1476 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe .....           | 68.58                     | 27.77                   |
| 23 21 13 23-1477 LF 3" Galvanized Schedule 80 Grooved Pipe .....               | 82.17                     | 31.15                   |
| 23 21 13 23-1478 LF 4" Galvanized Schedule 80 Grooved Pipe .....               | 102.65                    | 33.98                   |
| 23 21 13 23-1479 LF 5" Galvanized Schedule 80 Grooved Pipe .....               | 153.30                    | 42.72                   |
| 23 21 13 23-1480 LF 6" Galvanized Schedule 80 Grooved Pipe .....               | 199.58                    | 61.19                   |
| 23 21 13 23-1481 LF 8" Galvanized Schedule 80 Grooved Pipe .....               | 295.19                    | 69.93                   |
| 23 21 13 23-1482 LF 10" Galvanized Schedule 80 Grooved Pipe .....              | 351.50                    | 84.45                   |
| 23 21 13 23-1483 LF 12" Galvanized Schedule 80 Grooved Pipe .....              | 387.20                    | 102.07                  |
| <b>23 21 13 23-1484 Painted Grooved-Joint Pipe Fittings (23 21 13 23)</b>      |                           |                         |
| Note: Couplings are not included with fittings.                                |                           |                         |
| <b>23 21 13 23-1485 Grooved Elbows (23 21 13 23-1484)</b>                      |                           |                         |
| <b>23 21 13 23-1486 90 Degree Grooved Elbows (23 21 13 23-1485)</b>            |                           |                         |
| Note: Victaulic No. 10   |                           |                         |
| 23 21 13 23-1487 EA 3/4", Ductile Iron, Grooved 90 Degree Elbow .....          | 97.37                     | 15.37                   |
| For Galvanized Fittings, Add   | 24.53                     |                         |
| 23 21 13 23-1488 EA 1", Ductile Iron, Grooved 90 Degree Elbow .....            | 97.37                     | 15.37                   |
| For Galvanized Fittings, Add   | 24.53                     |                         |
| 23 21 13 23-1489 EA 1-1/4", Ductile Iron, Grooved 90 Degree Elbow .....        | 103.13                    | 19.18                   |
| For Galvanized Fittings, Add   | 24.53                     |                         |
| 23 21 13 23-1490 EA 1-1/2", Ductile Iron, Grooved 90 Degree Elbow .....        | 109.23                    | 23.26                   |
| For Galvanized Fittings, Add   | 24.53                     |                         |
| 23 21 13 23-1491 EA 2", Ductile Iron, Grooved 90 Degree Elbow .....            | 120.41                    | 30.73                   |
| For Galvanized Fittings, Add   | 24.53                     |                         |
| 23 21 13 23-1492 EA 2-1/2", Ductile Iron, Grooved 90 Degree Elbow .....        | 130.45                    | 37.50                   |
| For Galvanized Fittings, Add   | 24.53                     |                         |
| 23 21 13 23-1493 EA 3", Ductile Iron, Grooved 90 Degree Elbow .....            | 200.07                    | 45.39                   |
| For Galvanized Fittings, Add   | 43.57                     |                         |
| 23 21 13 23-1494 EA 4", Ductile Iron, Grooved 90 Degree Elbow .....            | 233.62                    | 59.91                   |
| For Galvanized Fittings, Add   | 47.46                     |                         |
| 23 21 13 23-1495 EA 5", Ductile Iron, Grooved 90 Degree Elbow .....            | 462.32                    | 74.87                   |
| For Galvanized Fittings, Add   | 115.53                    |                         |
| 23 21 13 23-1496 EA 6", Ductile Iron, Grooved 90 Degree Elbow .....            | 553.70                    | 97.98                   |
| For Galvanized Fittings, Add   | 134.26                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-1497 EA 8", Ductile Iron, Grooved 90 Degree Elbow .....         | 1,031.11                  | 116.59                  |
| <i>For Galvanized Fittings, Add</i>   | 282.57                    |                         |
| 23 21 13 23-1498 EA 10", Ductile Iron, Grooved 90 Degree Elbow .....        | 1,538.06                  | 136.04                  |
| <i>For Galvanized Fittings, Add</i>   | 440.25                    |                         |
| 23 21 13 23-1499 EA 12", Ductile Iron, Grooved 90 Degree Elbow .....        | 2,383.10                  | 163.26                  |
| <i>For Galvanized Fittings, Add</i>   | 705.65                    |                         |
| 23 21 13 23-1500 EA 14", Steel, Grooved 90 Degree Elbow .....               | 4,723.31                  | 184.26                  |
| <i>For Galvanized Fittings, Add</i>   | 1,467.51                  |                         |
| 23 21 13 23-1501 EA 16", Steel, Grooved 90 Degree Elbow .....               | 6,124.86                  | 204.00                  |
| <i>For Galvanized Fittings, Add</i>   | 1,920.25                  |                         |
| 23 21 13 23-1502 EA 18", Steel, Grooved 90 Degree Elbow .....               | 7,714.22                  | 222.89                  |
| <i>For Galvanized Fittings, Add</i>   | 2,435.44                  |                         |
| 23 21 13 23-1503 EA 20", Steel, Grooved 90 Degree Elbow .....               | 10,045.81                 | 231.77                  |
| <i>For Galvanized Fittings, Add</i>   | 3,200.41                  |                         |
| 23 21 13 23-1504 EA 24", Steel, Grooved 90 Degree Elbow .....               | 14,366.77                 | 274.07                  |
| <i>For Galvanized Fittings, Add</i>   | 4,605.47                  |                         |
| <b>23 21 13 23-1505 45 Degree Grooved Elbows</b> (23 21 13 23-1485)         |                           |                         |
| Note: Victaulic No. 11  |                           |                         |
| 23 21 13 23-1506 EA 3/4", Ductile Iron, Grooved 45 Degree Elbow .....       | 97.32                     | 15.37                   |
| <i>For Galvanized Fittings, Add</i>   | 17.83                     |                         |
| 23 21 13 23-1507 EA 1", Ductile Iron, Grooved 45 Degree Elbow .....         | 97.32                     | 15.37                   |
| <i>For Galvanized Fittings, Add</i>   | 17.83                     |                         |
| 23 21 13 23-1508 EA 1-1/4", Ductile Iron, Grooved 45 Degree Elbow .....     | 103.08                    | 19.18                   |
| <i>For Galvanized Fittings, Add</i>   | 17.83                     |                         |
| 23 21 13 23-1509 EA 1-1/2", Ductile Iron, Grooved 45 Degree Elbow .....     | 109.18                    | 23.26                   |
| <i>For Galvanized Fittings, Add</i>   | 17.83                     |                         |
| 23 21 13 23-1510 EA 2", Ductile Iron, Grooved 45 Degree Elbow .....         | 120.36                    | 30.73                   |
| <i>For Galvanized Fittings, Add</i>   | 17.83                     |                         |
| 23 21 13 23-1511 EA 2-1/2", Ductile Iron, Grooved 45 Degree Elbow .....     | 130.40                    | 37.50                   |
| <i>For Galvanized Fittings, Add</i>   | 17.83                     |                         |
| 23 21 13 23-1512 EA 3", Ductile Iron, Grooved 45 Degree Elbow .....         | 200.02                    | 45.39                   |
| <i>For Galvanized Fittings, Add</i>   | 31.68                     |                         |
| 23 21 13 23-1513 EA 4", Ductile Iron, Grooved 45 Degree Elbow .....         | 233.62                    | 59.91                   |
| <i>For Galvanized Fittings, Add</i>   | 34.52                     |                         |
| 23 21 13 23-1514 EA 5", Ductile Iron, Grooved 45 Degree Elbow .....         | 462.32                    | 74.87                   |
| <i>For Galvanized Fittings, Add</i>   | 84.02                     |                         |
| 23 21 13 23-1515 EA 6", Ductile Iron, Grooved 45 Degree Elbow .....         | 553.70                    | 97.98                   |
| <i>For Galvanized Fittings, Add</i>   | 97.64                     |                         |
| 23 21 13 23-1516 EA 8", Ductile Iron, Grooved 45 Degree Elbow .....         | 1,031.11                  | 116.59                  |
| <i>For Galvanized Fittings, Add</i>   | 205.51                    |                         |
| 23 21 13 23-1517 EA 10", Ductile Iron, Grooved 45 Degree Elbow .....        | 1,538.06                  | 136.04                  |
| <i>For Galvanized Fittings, Add</i>   | 320.18                    |                         |
| 23 21 13 23-1518 EA 12", Ductile Iron, Grooved 45 Degree Elbow .....        | 2,383.10                  | 163.26                  |
| <i>For Galvanized Fittings, Add</i>   | 513.20                    |                         |
| 23 21 13 23-1519 EA 14", Steel, Grooved 45 Degree Elbow .....               | 4,723.31                  | 184.26                  |
| <i>For Galvanized Fittings, Add</i>   | 1,067.28                  |                         |
| 23 21 13 23-1520 EA 16", Steel, Grooved 45 Degree Elbow .....               | 6,124.86                  | 204.00                  |
| <i>For Galvanized Fittings, Add</i>   | 1,396.54                  |                         |
| 23 21 13 23-1521 EA 18", Steel, Grooved 45 Degree Elbow .....               | 7,714.22                  | 222.89                  |
| <i>For Galvanized Fittings, Add</i>   | 1,771.23                  |                         |
| 23 21 13 23-1522 EA 20", Steel, Grooved 45 Degree Elbow .....               | 10,046.42                 | 232.20                  |
| <i>For Galvanized Fittings, Add</i>   | 2,327.57                  |                         |
| 23 21 13 23-1523 EA 24", Steel, Grooved 45 Degree Elbow .....               | 14,366.77                 | 274.07                  |
| <i>For Galvanized Fittings, Add</i>   | 3,349.44                  |                         |
| <b>23 21 13 23-1524 22-1/2 Degree Grooved Elbows</b> (23 21 13 23-1485)     |                           |                         |
| Note: Victaulic No. 12  |                           |                         |
| 23 21 13 23-1525 EA 1", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 102.21                    | 15.37                   |
| <i>For Galvanized Fittings, Add</i>   | 19.00                     |                         |
| 23 21 13 23-1526 EA 1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow ..... | 107.97                    | 19.18                   |
| <i>For Galvanized Fittings, Add</i>   | 19.00                     |                         |
| 23 21 13 23-1527 EA 1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow ..... | 114.07                    | 23.26                   |
| <i>For Galvanized Fittings, Add</i>   | 19.00                     |                         |
| 23 21 13 23-1528 EA 2", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 125.25                    | 30.73                   |
| <i>For Galvanized Fittings, Add</i>   | 19.00                     |                         |
| 23 21 13 23-1529 EA 2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow ..... | 135.29                    | 37.50                   |
| <i>For Galvanized Fittings, Add</i>   | 19.00                     |                         |
| 23 21 13 23-1530 EA 3", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 183.82                    | 45.39                   |
| <i>For Galvanized Fittings, Add</i>   | 27.79                     |                         |
| 23 21 13 23-1531 EA 4", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 245.06                    | 59.91                   |
| <i>For Galvanized Fittings, Add</i>   | 37.26                     |                         |
| 23 21 13 23-1532 EA 5", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 593.71                    | 74.87                   |
| <i>For Galvanized Fittings, Add</i>   | 115.55                    |                         |
| 23 21 13 23-1533 EA 6", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 586.69                    | 97.98                   |
| <i>For Galvanized Fittings, Add</i>   | 105.56                    |                         |
| 23 21 13 23-1534 EA 8", Ductile Iron, Grooved 22-1/2 Degree Elbow .....     | 1,095.12                  | 116.59                  |
| <i>For Galvanized Fittings, Add</i>   | 220.87                    |                         |
| 23 21 13 23-1535 EA 10", Steel, Grooved 22-1/2 Degree Elbow .....           | 1,467.42                  | 136.04                  |
| <i>For Galvanized Fittings, Add</i>   | 303.23                    |                         |
| 23 21 13 23-1536 EA 12", Steel, Grooved 22-1/2 Degree Elbow .....           | 1,952.84                  | 163.26                  |
| <i>For Galvanized Fittings, Add</i>   | 409.94                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1537 EA 14", Steel, Grooved 22-1/2 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 2,249.19<br>473.49        | 184.26                  |
| 23 21 13 23-1538 EA 16", Steel, Grooved 22-1/2 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 2,672.12<br>567.89        | 204.00                  |
| 23 21 13 23-1539 EA 18", Steel, Grooved 22-1/2 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 3,199.75<br>687.75        | 222.89                  |
| 23 21 13 23-1540 EA 20", Steel, Grooved 22-1/2 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 3,735.54<br>813.11        | 231.77                  |
| 23 21 13 23-1541 EA 24", Steel, Grooved 22-1/2 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 4,963.46<br>1,092.64      | 274.07                  |
| <br>   |                           |                         |
| <b>23 21 13 23-1542 11-1/4 Degree Grooved Elbows</b> <small>(23 21 13 23-1485)</small><br>Note: Victaulic No. 13           |                           |                         |
| 23 21 13 23-1543 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 102.21<br>19.00           | 15.37                   |
| 23 21 13 23-1544 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>         | 107.97<br>19.00           | 19.18                   |
| 23 21 13 23-1545 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>         | 114.07<br>19.00           | 23.26                   |
| 23 21 13 23-1546 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 125.25<br>19.00           | 30.73                   |
| 23 21 13 23-1547 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>         | 135.29<br>19.00           | 37.50                   |
| 23 21 13 23-1548 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 183.81<br>27.79           | 45.39                   |
| 23 21 13 23-1549 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 245.05<br>37.26           | 59.91                   |
| 23 21 13 23-1550 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 593.69<br>115.55          | 74.87                   |
| 23 21 13 23-1551 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 586.67<br>105.56          | 97.98                   |
| 23 21 13 23-1552 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>             | 1,095.07<br>220.86        | 116.59                  |
| 23 21 13 23-1553 EA 10", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 1,467.34<br>303.21        | 136.04                  |
| 23 21 13 23-1554 EA 12", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 1,952.75<br>409.92        | 163.26                  |
| 23 21 13 23-1555 EA 14", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 2,249.10<br>473.46        | 184.26                  |
| 23 21 13 23-1556 EA 16", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 2,672.04<br>567.85        | 204.14                  |
| 23 21 13 23-1557 EA 18", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 3,199.56<br>687.72        | 222.89                  |
| 23 21 13 23-1558 EA 20", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 3,735.35<br>813.06        | 231.77                  |
| 23 21 13 23-1559 EA 24", Steel, Grooved 11-1/4 Degree Elbow .....<br><i>For Galvanized Fittings, Add</i>                   | 4,963.21<br>1,092.58      | 274.07                  |
| <br>   |                           |                         |
| <b>23 21 13 23-1560 90 Degree Grooved Long Radius Elbows</b> <small>(23 21 13 23-1485)</small><br>Note: Victaulic No. 100  |                           |                         |
| 23 21 13 23-1561 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>     | 216.01<br>40.78           | 30.73                   |
| 23 21 13 23-1562 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i> | 549.18<br>118.33          | 37.50                   |
| 23 21 13 23-1563 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>     | 237.96<br>40.78           | 45.39                   |
| 23 21 13 23-1564 EA 4", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>     | 344.35<br>61.09           | 59.91                   |
| 23 21 13 23-1565 EA 5", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>     | 1,416.95<br>313.13        | 74.87                   |
| 23 21 13 23-1566 EA 6", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>     | 891.51<br>178.72          | 97.98                   |
| 23 21 13 23-1567 EA 8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>    | 1,961.01<br>428.68        | 116.59                  |
| 23 21 13 23-1568 EA 10", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>    | 3,907.46<br>888.84        | 136.04                  |
| 23 21 13 23-1569 EA 12", Ductile Iron, Grooved 90 Degree Long Radius Elbow .....<br><i>For Galvanized Fittings, Add</i>    | 4,661.18<br>1,059.94      | 163.26                  |
| <br>   |                           |                         |
| <b>23 21 13 23-1570 Grooved Tees, Wyes And Crosses</b> <small>(23 21 13 23-1484)</small>                                   |                           |                         |
| <b>23 21 13 23-1571 Grooved Tees</b> <small>(23 21 13 23-1570)</small><br>Note: Victaulic No. 20                           |                           |                         |
| 23 21 13 23-1572 EA 3/4", Ductile Iron, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>                           | 143.89<br>34.07           | 20.16                   |
| 23 21 13 23-1573 EA 1", Ductile Iron, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>                             | 148.48<br>34.07           | 23.26                   |
| 23 21 13 23-1574 EA 1-1/4", Ductile Iron, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>                         | 156.24<br>34.07           | 28.48                   |
| 23 21 13 23-1575 EA 1-1/2", Ductile Iron, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>                         | 165.93<br>34.07           | 34.96                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1576 EA 2", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>          | 181.34<br>34.07           | 45.25                   |
| 23 21 13 23-1577 EA 2-1/2", Ductile Iron, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>     | 196.72<br>34.07           | 55.41                   |
| 23 21 13 23-1578 EA 3", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>          | 261.15<br>47.73           | 68.10                   |
| 23 21 13 23-1579 EA 4", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>          | 376.10<br>73.22           | 88.11                   |
| 23 21 13 23-1580 EA 5", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>          | 745.27<br>171.77          | 115.18                  |
| 23 21 13 23-1581 EA 6", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>          | 877.73<br>198.53          | 144.08                  |
| 23 21 13 23-1582 EA 8", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>          | 1,707.78<br>433.66        | 174.96                  |
| 23 21 13 23-1583 EA 10", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>         | 2,887.27<br>774.40        | 204.00                  |
| 23 21 13 23-1584 EA 12", Ductile Iron, Grooved Tee.....<br><i>For Galvanized Fittings, Add</i>         | 3,980.99<br>1,084.16      | 244.89                  |
| 23 21 13 23-1585 EA 14", Steel, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>               | 4,350.31<br>1,182.71      | 272.09                  |
| 23 21 13 23-1586 EA 16", Steel, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>               | 5,432.09<br>1,506.55      | 273.65                  |
| 23 21 13 23-1587 EA 18", Steel, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>               | 6,741.53<br>1,886.71      | 301.84                  |
| 23 21 13 23-1588 EA 20", Steel, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>               | 9,470.79<br>2,703.35      | 306.63                  |
| 23 21 13 23-1589 EA 24", Steel, Grooved Tee .....<br><i>For Galvanized Fittings, Add</i>               | 14,410.08<br>4,153.58     | 376.70                  |
| <b>23 21 13 23-1590 Grooved Wyes (90 Degree True Wye) (23 21 13 23-1570)</b><br>Note: Victaulic No. 33 |                           |                         |
| 23 21 13 23-1591 EA 1", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 514.12<br>76.68           | 23.26                   |
| 23 21 13 23-1592 EA 1-1/4", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>            | 521.88<br>76.68           | 28.48                   |
| 23 21 13 23-1593 EA 1-1/2", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>            | 531.57<br>76.68           | 34.96                   |
| 23 21 13 23-1594 EA 2", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 546.98<br>76.68           | 45.25                   |
| 23 21 13 23-1595 EA 2-1/2", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>            | 562.36<br>76.68           | 55.41                   |
| 23 21 13 23-1596 EA 3", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 674.88<br>91.65           | 68.10                   |
| 23 21 13 23-1597 EA 4", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 882.35<br>120.05          | 88.11                   |
| 23 21 13 23-1598 EA 5", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 1,248.15<br>172.07        | 115.18                  |
| 23 21 13 23-1599 EA 6", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 1,546.62<br>212.90        | 144.08                  |
| 23 21 13 23-1600 EA 8", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>                | 2,178.74<br>306.64        | 174.96                  |
| 23 21 13 23-1601 EA 10", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 3,613.79<br>529.25        | 204.00                  |
| 23 21 13 23-1602 EA 12", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 4,021.53<br>584.70        | 244.89                  |
| 23 21 13 23-1603 EA 14", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 4,580.84<br>667.67        | 272.09                  |
| 23 21 13 23-1604 EA 16", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 5,829.91<br>867.21        | 273.37                  |
| 23 21 13 23-1605 EA 18", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 6,652.94<br>991.99        | 302.13                  |
| 23 21 13 23-1606 EA 20", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 9,450.92<br>1,438.72      | 306.07                  |
| 23 21 13 23-1607 EA 24", Steel, Grooved Wye .....<br><i>For Galvanized Fittings, Add</i>               | 14,544.87<br>2,236.81     | 376.70                  |
| <b>23 21 13 23-1608 Grooved Crosses (23 21 13 23-1570)</b><br>Note: Victaulic No. 35                   |                           |                         |
| 23 21 13 23-1609 EA 3/4", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>            | 355.72<br>46.54           | 30.31                   |
| 23 21 13 23-1610 EA 1", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>              | 362.61<br>46.54           | 34.96                   |
| 23 21 13 23-1611 EA 1-1/4", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>          | 438.44<br>56.17           | 42.72                   |
| 23 21 13 23-1612 EA 1-1/2", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>          | 482.04<br>60.53           | 52.44                   |
| 23 21 13 23-1613 EA 2", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>              | 329.66<br>34.20           | 67.82                   |
| 23 21 13 23-1614 EA 2-1/2", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>          | 352.75<br>34.20           | 83.18                   |
| 23 21 13 23-1615 EA 3", Steel, Grooved Cross .....<br><i>For Galvanized Fittings, Add</i>              | 562.82<br>61.46           | 102.07                  |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------|------------|-----|--|---------------------------|-------------------------|
| 23 21 | 13 23-1616 | EA  | 4", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                      | 880.18<br>102.31          | 132.10                  |
| 23 21 | 13 23-1617 | EA  | 5", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                      | 1,652.50<br>209.02        | 172.70                  |
| 23 21 | 13 23-1618 | EA  | 6", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                      | 2,116.79<br>268.93        | 216.13                  |
| 23 21 | 13 23-1619 | EA  | 8", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                      | 2,754.53<br>354.18        | 262.36                  |
| 23 21 | 13 23-1620 | EA  | 10", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 4,486.03<br>604.07        | 306.07                  |
| 23 21 | 13 23-1621 | EA  | 12", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 6,362.14<br>871.72        | 367.40                  |
| 23 21 | 13 23-1622 | EA  | 14", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 6,632.84<br>903.14        | 408.14                  |
| 23 21 | 13 23-1623 | EA  | 16", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 8,491.79<br>1,181.46      | 410.54                  |
| 23 21 | 13 23-1624 | EA  | 18", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 10,333.27<br>1,448.19     | 452.69                  |
| 23 21 | 13 23-1625 | EA  | 20", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 14,367.12<br>2,051.67     | 459.74                  |
| 23 21 | 13 23-1626 | EA  | 24", Steel, Grooved Cross<br><i>For Galvanized Fittings, Add</i>                     | 21,962.74<br>3,167.33     | 565.05                  |
| <br>  |            |     |  |                           |                         |
| 23 21 | 13 23-1627 |     | <b>Grooved Reducing Tees</b> (23 21 13 23-1570)<br>Note: Victaulic No. 25            |                           |                         |
| 23 21 | 13 23-1628 | EA  | 1", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 254.05<br>43.83           | 23.26                   |
| 23 21 | 13 23-1629 | EA  | 1-1/4", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>           | 268.69<br>45.21           | 28.48                   |
| 23 21 | 13 23-1630 | EA  | 1-1/2", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>           | 284.01<br>46.33           | 34.96                   |
| 23 21 | 13 23-1631 | EA  | 2", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 338.97<br>54.24           | 45.25                   |
| 23 21 | 13 23-1632 | EA  | 2-1/2", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>           | 382.26<br>59.82           | 55.41                   |
| 23 21 | 13 23-1633 | EA  | 3", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 429.46<br>65.48           | 68.10                   |
| 23 21 | 13 23-1634 | EA  | 4", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 573.60<br>88.31           | 88.11                   |
| 23 21 | 13 23-1635 | EA  | 5", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 755.72<br>116.61          | 115.18                  |
| 23 21 | 13 23-1636 | EA  | 6", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 1,036.15<br>164.04        | 144.08                  |
| 23 21 | 13 23-1637 | EA  | 8", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>               | 1,615.54<br>270.66        | 174.96                  |
| 23 21 | 13 23-1638 | EA  | 10", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 2,300.99<br>399.01        | 204.00                  |
| 23 21 | 13 23-1639 | EA  | 12", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 3,310.16<br>588.60        | 244.89                  |
| 23 21 | 13 23-1640 | EA  | 14", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 3,750.56<br>668.53        | 272.09                  |
| 23 21 | 13 23-1641 | EA  | 16", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 4,752.30<br>868.40        | 273.65                  |
| 23 21 | 13 23-1642 | EA  | 18", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 5,768.14<br>1,063.14      | 301.84                  |
| 23 21 | 13 23-1643 | EA  | 20", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 8,061.93<br>1,520.48      | 306.49                  |
| 23 21 | 13 23-1644 | EA  | 24", Steel, Grooved Reducing Tee<br><i>For Galvanized Fittings, Add</i>              | 12,810.73<br>2,449.18     | 376.70                  |
| <br>  |            |     |  |                           |                         |
| 23 21 | 13 23-1645 |     | <b>Grooved 45 Degree Lateral Wyes</b> (23 21 13 23-1570)<br>Note: Victaulic No. 30   |                           |                         |
| 23 21 | 13 23-1646 | EA  | 3/4", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i>   | 484.13<br>81.69           | 20.16                   |
| 23 21 | 13 23-1647 | EA  | 1", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i>     | 488.72<br>81.69           | 23.26                   |
| 23 21 | 13 23-1648 | EA  | 1-1/4", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i> | 496.48<br>81.69           | 28.48                   |
| 23 21 | 13 23-1649 | EA  | 1-1/2", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i> | 506.17<br>81.69           | 34.96                   |
| 23 21 | 13 23-1650 | EA  | 2", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i>     | 521.58<br>81.69           | 45.25                   |
| 23 21 | 13 23-1651 | EA  | 2-1/2", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i> | 536.96<br>81.69           | 55.41                   |
| 23 21 | 13 23-1652 | EA  | 3", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i>     | 494.11<br>70.57           | 68.10                   |
| 23 21 | 13 23-1653 | EA  | 3-1/2", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i> | 781.88<br>119.56          | 78.53                   |
| 23 21 | 13 23-1654 | EA  | 4", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i>     | 905.26<br>139.18          | 88.11                   |
| 23 21 | 13 23-1655 | EA  | 5", Steel, Grooved, 45 Degree Lateral Wye<br><i>For Galvanized Fittings, Add</i>     | 1,302.70<br>203.40        | 115.18                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



| MINOR        | CSI               | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--------------|-------------------|-----|--|------------------------|----------------------|
| 23 21        | 13 23-1656        | EA  | 6", Steel, Grooved, 45 Degree Lateral Wye  | 2,036.61               | 144.08               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 327.72                 |                      |
| 23 21        | 13 23-1657        | EA  | 8", Steel, Grooved, 45 Degree Lateral Wye  | 2,884.63               | 174.96               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 472.03                 |                      |
| 23 21        | 13 23-1658        | EA  | 10", Steel, Grooved, 45 Degree Lateral Wye   | 4,007.40               | 204.00               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 666.26                 |                      |
| 23 21        | 13 23-1659        | EA  | 12", Steel, Grooved, 45 Degree Lateral Wye   | 4,842.36               | 244.89               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 805.54                 |                      |
| 23 21        | 13 23-1660        | EA  | 14", Steel, Grooved, 45 Degree Lateral Wye   | 6,939.80               | 272.09               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 1,175.74               |                      |
| 23 21        | 13 23-1661        | EA  | 16", Steel, Grooved, 45 Degree Lateral Wye   | 8,570.36               | 273.65               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 1,468.81               |                      |
| 23 21        | 13 23-1662        | EA  | 18", Steel, Grooved, 45 Degree Lateral Wye   | 9,574.41               | 301.84               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 1,641.95               |                      |
| 23 21        | 13 23-1663        | EA  | 20", Steel, Grooved, 45 Degree Lateral Wye   | 14,296.02              | 306.49               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 2,490.57               |                      |
| 23 21        | 13 23-1664        | EA  | 24", Steel, Grooved, 45 Degree Lateral Wye   | 22,065.71              | 376.70               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 3,870.16               |                      |
| <b>23 21</b> | <b>13 23-1665</b> |     | <b>Grooved 45 Degree Lateral Reducing Wyes <small>(23 21 13 23-1570)</small></b>                       |                        |                      |
|              |                   |     | Note: Victaulic No. 30R  |                        |                      |
| 23 21        | 13 23-1666        | EA  | 3", Steel, Grooved 45 Degree Lateral Reducing Wye  | 494.11                 | 68.10                |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 50.97                  |                      |
| 23 21        | 13 23-1667        | EA  | 4", Steel, Grooved 45 Degree Lateral Reducing Wye  | 905.26                 | 88.11                |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 100.52                 |                      |
| 23 21        | 13 23-1668        | EA  | 5", Steel, Grooved 45 Degree Lateral Reducing Wye  | 1,302.70               | 115.18               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 146.90                 |                      |
| 23 21        | 13 23-1669        | EA  | 6", Steel, Grooved 45 Degree Lateral Reducing Wye  | 1,675.94               | 144.08               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 189.80                 |                      |
| 23 21        | 13 23-1670        | EA  | 8", Steel, Grooved 45 Degree Lateral Reducing Wye  | 2,369.85               | 174.96               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 273.99                 |                      |
| 23 21        | 13 23-1671        | EA  | 10", Steel, Grooved 45 Degree Lateral Reducing Wye   | 2,887.17               | 204.00               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 335.56                 |                      |
| 23 21        | 13 23-1672        | EA  | 12", Steel, Grooved 45 Degree Lateral Reducing Wye   | 3,503.96               | 244.89               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 407.79                 |                      |
| 23 21        | 13 23-1673        | EA  | 14", Steel, Grooved 45 Degree Lateral Reducing Wye   | 3,921.96               | 272.09               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 456.82                 |                      |
| 23 21        | 13 23-1674        | EA  | 16", Steel, Grooved 45 Degree Lateral Reducing Wye   | 4,952.49               | 273.65               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 590.48                 |                      |
| 23 21        | 13 23-1675        | EA  | 18", Steel, Grooved 45 Degree Lateral Reducing Wye   | 7,426.99               | 301.84               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 906.69                 |                      |
| 23 21        | 13 23-1676        | EA  | 20", Steel, Grooved 45 Degree Lateral Reducing Wye   | 10,668.43              | 306.49               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 1,327.16               |                      |
| 23 21        | 13 23-1677        | EA  | 24", Steel, Grooved 45 Degree Lateral Reducing Wye   | 17,093.44              | 376.70               |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 2,148.72               |                      |
| <b>23 21</b> | <b>13 23-1678</b> |     | <b>Mechanical-T Outlet <small>(23 21 13 23-1570)</small></b>   |                        |                      |
|              |                   |     | Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921. |                        |                      |
| 23 21        | 13 23-1679        | EA  | 2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet  | 176.97                 | 50.75                |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 18.72                  |                      |
| 23 21        | 13 23-1680        | EA  | 2" x 1" Mechanical-T Outlet With Threaded Branch Outlet  | 176.97                 | 50.75                |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 18.72                  |                      |
| 23 21        | 13 23-1681        | EA  | 2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet  | 188.75                 | 50.75                |
|              |                   |     | <i>For Galvanized Fittings, Add</i>  | 21.64                  |                      |
| 23 21        | 13 23-1682        | EA  | 2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet  | 188.75                 | 50.75                |
| 23 21        | 13 23-1683        | EA  | 2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet  | 189.66                 | 57.10                |
| 23 21        | 13 23-1684        | EA  | 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet  | 189.66                 | 57.10                |
| 23 21        | 13 23-1685        | EA  | 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet  | 220.77                 | 57.10                |
| 23 21        | 13 23-1686        | EA  | 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet  | 213.79                 | 63.44                |
| 23 21        | 13 23-1687        | EA  | 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet  | 213.79                 | 63.44                |
| 23 21        | 13 23-1688        | EA  | 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet  | 238.83                 | 63.44                |
| 23 21        | 13 23-1689        | EA  | 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet  | 238.83                 | 63.44                |
| 23 21        | 13 23-1690        | EA  | 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet  | 255.98                 | 63.44                |
| 23 21        | 13 23-1691        | EA  | 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet  | 279.99                 | 84.59                |
| 23 21        | 13 23-1692        | EA  | 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet  | 279.99                 | 84.59                |
| 23 21        | 13 23-1693        | EA  | 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet  | 299.54                 | 84.59                |
| 23 21        | 13 23-1694        | EA  | 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 305.03                 | 84.59                |
| 23 21        | 13 23-1695        | EA  | 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 305.03                 | 84.59                |
| 23 21        | 13 23-1696        | EA  | 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 310.52                 | 84.59                |
| 23 21        | 13 23-1697        | EA  | 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 321.04                 | 84.59                |
| 23 21        | 13 23-1698        | EA  | 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 399.46                 | 116.30               |
| 23 21        | 13 23-1699        | EA  | 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 399.46                 | 116.30               |
| 23 21        | 13 23-1700        | EA  | 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 408.95                 | 116.30               |
| 23 21        | 13 23-1701        | EA  | 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 420.84                 | 116.30               |
| 23 21        | 13 23-1702        | EA  | 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 466.79                 | 148.03               |
| 23 21        | 13 23-1703        | EA  | 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 466.79                 | 148.03               |
| 23 21        | 13 23-1704        | EA  | 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 480.74                 | 148.03               |
| 23 21        | 13 23-1705        | EA  | 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 492.52                 | 148.03               |
| 23 21        | 13 23-1706        | EA  | 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 513.44                 | 148.03               |
| 23 21        | 13 23-1707        | EA  | 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 694.04                 | 195.97               |
| 23 21        | 13 23-1708        | EA  | 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet  | 694.04                 | 195.97               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-1709 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....            | 710.85                    | 195.97                  |
| 23 21 13 23-1710 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....            | 720.80                    | 195.97                  |
| <b>23 21 13 23-1711 Installation-Ready™ Grooved Fittings (23 21 13 23-1484)</b>                 |                           |                         |
| <b>23 21 13 23-1712 Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1711)</b>         |                           |                         |
| Note: Victaulic No. 101   |                           |                         |
| 23 21 13 23-1713 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....      | 266.94                    | 13.96                   |
| For Galvanized Fittings, Add  | 81.11                     |                         |
| For Galvanized Fittings, Add  | 62.92                     |                         |
| 23 21 13 23-1714 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....      | 278.40                    | 16.75                   |
| For Galvanized Fittings, Add  | 83.50                     |                         |
| For Galvanized Fittings, Add  | 64.77                     |                         |
| 23 21 13 23-1715 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....          | 288.67                    | 22.33                   |
| For Galvanized Fittings, Add  | 84.09                     |                         |
| For Galvanized Fittings, Add  | 65.24                     |                         |
| 23 21 13 23-1716 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....      | 349.53                    | 27.91                   |
| For Galvanized Fittings, Add  | 101.39                    |                         |
| For Galvanized Fittings, Add  | 78.65                     |                         |
| <b>23 21 13 23-1717 Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1711)</b>         |                           |                         |
| Note: Victaulic No. 103   |                           |                         |
| 23 21 13 23-1718 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....      | 266.94                    | 13.96                   |
| For Galvanized Fittings, Add  | 58.99                     |                         |
| For Galvanized Fittings, Add  | 62.92                     |                         |
| 23 21 13 23-1719 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....      | 278.40                    | 16.75                   |
| For Galvanized Fittings, Add  | 60.72                     |                         |
| For Galvanized Fittings, Add  | 64.77                     |                         |
| 23 21 13 23-1720 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....          | 288.67                    | 22.33                   |
| For Galvanized Fittings, Add  | 61.16                     |                         |
| For Galvanized Fittings, Add  | 65.24                     |                         |
| 23 21 13 23-1721 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....      | 349.53                    | 27.91                   |
| For Galvanized Fittings, Add  | 73.74                     |                         |
| For Galvanized Fittings, Add  | 78.65                     |                         |
| <b>23 21 13 23-1722 Installation-Ready™ Grooved Tees (23 21 13 23-1711)</b>                     |                           |                         |
| Note: Victaulic No. 102   |                           |                         |
| 23 21 13 23-1723 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee.....                  | 407.73                    | 18.61                   |
| For Galvanized Fittings, Add  | 113.86                    |                         |
| For Galvanized Fittings, Add  | 97.16                     |                         |
| 23 21 13 23-1724 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....                  | 426.02                    | 22.33                   |
| For Galvanized Fittings, Add  | 117.65                    |                         |
| For Galvanized Fittings, Add  | 100.40                    |                         |
| 23 21 13 23-1725 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee.....                      | 442.71                    | 29.78                   |
| For Galvanized Fittings, Add  | 119.28                    |                         |
| For Galvanized Fittings, Add  | 101.79                    |                         |
| 23 21 13 23-1726 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....                  | 515.44                    | 37.22                   |
| For Galvanized Fittings, Add  | 137.72                    |                         |
| For Galvanized Fittings, Add  | 117.52                    |                         |
| <b>23 21 13 23-1727 Grooved Fittings (23 21 13 23-1484)</b>                                     |                           |                         |
| <b>23 21 13 23-1728 Flanged Adapter Nipple, Grooved (23 21 13 23-1727)</b>                      |                           |                         |
| Note: Victaulic No. 41 and 45   |                           |                         |
| 23 21 13 23-1729 EA 1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....     | 344.76                    | 16.91                   |
| For Galvanized Fittings, Add  | 57.49                     |                         |
| For 300 LB Rating, Add  | 47.91                     |                         |
| 23 21 13 23-1730 EA 1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 347.58                    | 18.75                   |
| For Galvanized Fittings, Add  | 57.49                     |                         |
| For 300 LB Rating, Add  | 47.91                     |                         |
| 23 21 13 23-1731 EA 1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 354.63                    | 23.54                   |
| For Galvanized Fittings, Add  | 57.49                     |                         |
| For 300 LB Rating, Add  | 47.91                     |                         |
| 23 21 13 23-1732 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....     | 369.46                    | 33.42                   |
| For Galvanized Fittings, Add  | 57.49                     |                         |
| For 300 LB Rating, Add  | 47.91                     |                         |
| 23 21 13 23-1733 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 380.06                    | 40.46                   |
| For Galvanized Fittings, Add  | 57.49                     |                         |
| For 300 LB Rating, Add  | 47.91                     |                         |
| 23 21 13 23-1734 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....     | 481.09                    | 48.36                   |
| For Galvanized Fittings, Add  | 73.56                     |                         |
| For 300 LB Rating, Add  | 61.30                     |                         |
| 23 21 13 23-1735 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....     | 584.98                    | 65.13                   |
| For Galvanized Fittings, Add  | 87.73                     |                         |
| For 300 LB Rating, Add  | 73.11                     |                         |
| 23 21 13 23-1736 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....     | 814.59                    | 78.81                   |
| For Galvanized Fittings, Add  | 125.36                    |                         |
| For 300 LB Rating, Add  | 104.46                    |                         |
| 23 21 13 23-1737 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....     | 954.21                    | 106.44                  |
| For Galvanized Fittings, Add  | 143.03                    |                         |
| For 300 LB Rating, Add  | 119.19                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1738 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....  | 1,312.77                  | 144.08                  |
| For Galvanized Fittings, Add   | 197.42                    |                         |
| For 300 LB Rating, Add   | 164.52                    |                         |
| 23 21 13 23-1739 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 2,052.06                  | 174.96                  |
| For Galvanized Fittings, Add   | 322.17                    |                         |
| For 300 LB Rating, Add   | 268.47                    |                         |
| 23 21 13 23-1740 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 2,753.18                  | 204.00                  |
| For Galvanized Fittings, Add   | 440.50                    |                         |
| For 300 LB Rating, Add   | 367.08                    |                         |
| 23 21 13 23-1741 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 3,253.09                  | 244.89                  |
| For Galvanized Fittings, Add   | 519.47                    |                         |
| For 300 LB Rating, Add   | 432.89                    |                         |
| 23 21 13 23-1742 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 4,852.35                  | 272.09                  |
| For Galvanized Fittings, Add   | 800.00                    |                         |
| For 300 LB Rating, Add   | 666.66                    |                         |
| 23 21 13 23-1743 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 5,832.22                  | 408.14                  |
| For Galvanized Fittings, Add   | 939.66                    |                         |
| For 300 LB Rating, Add   | 783.05                    |                         |
| 23 21 13 23-1744 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 6,175.56                  | 489.77                  |
| For Galvanized Fittings, Add   | 979.43                    |                         |
| For 300 LB Rating, Add   | 816.19                    |                         |
| 23 21 13 23-1745 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... | 10,202.75                 | 544.19                  |
| For Galvanized Fittings, Add   | 1,689.64                  |                         |
| For 300 LB Rating, Add   | 1,408.03                  |                         |
| <b>23 21 13 23-1746 Grooved Concentric Reducers (23 21 13 23-1727)</b>                       |                           |                         |
| Note: Victaulic No. 50   |                           |                         |
| 23 21 13 23-1747 EA 1-1/4" x 3/4", Grooved Concentric Reducer.....                           | 366.03                    | 16.91                   |
| For Galvanized Fittings, Add   | 14.99                     |                         |
| 23 21 13 23-1748 EA 1-1/4" x 1", Grooved Concentric Reducer.....                             | 382.80                    | 17.91                   |
| For Galvanized Fittings, Add   | 15.66                     |                         |
| 23 21 13 23-1749 EA 1-1/2" x 3/4", Grooved Concentric Reducer.....                           | 430.97                    | 19.32                   |
| For Galvanized Fittings, Add   | 48.33                     |                         |
| 23 21 13 23-1750 EA 1-1/2" x 1", Grooved Concentric Reducer.....                             | 116.41                    | 20.16                   |
| For Galvanized Fittings, Add   | 10.35                     |                         |
| 23 21 13 23-1751 EA 1-1/2" x 1-1/4", Grooved Concentric Reducer.....                         | 364.99                    | 21.15                   |
| For Galvanized Fittings, Add   | 40.06                     |                         |
| 23 21 13 23-1752 EA 2" x 3/4", Grooved Concentric Reducer.....                               | 120.64                    | 22.98                   |
| For Galvanized Fittings, Add   | 10.35                     |                         |
| 23 21 13 23-1753 EA 2" x 1", Grooved Concentric Reducer.....                                 | 122.05                    | 23.96                   |
| For Galvanized Fittings, Add   | 10.35                     |                         |
| 23 21 13 23-1754 EA 2" x 1-1/4", Grooved Concentric Reducer.....                             | 132.11                    | 24.96                   |
| For Galvanized Fittings, Add   | 11.39                     |                         |
| 23 21 13 23-1755 EA 2" x 1-1/2", Grooved Concentric Reducer.....                             | 127.77                    | 27.77                   |
| For Galvanized Fittings, Add   | 10.35                     |                         |
| 23 21 13 23-1756 EA 2-1/2" x 3/4", Grooved Concentric Reducer.....                           | 739.65                    | 25.94                   |
| For Galvanized Fittings, Add   | 84.23                     |                         |
| 23 21 13 23-1757 EA 2-1/2" x 1", Grooved Concentric Reducer.....                             | 589.99                    | 26.93                   |
| For Galvanized Fittings, Add   | 66.08                     |                         |
| 23 21 13 23-1758 EA 2-1/2" x 1-1/4", Grooved Concentric Reducer.....                         | 539.28                    | 27.77                   |
| For Galvanized Fittings, Add   | 59.81                     |                         |
| 23 21 13 23-1759 EA 2-1/2" x 1-1/2", Grooved Concentric Reducer.....                         | 131.91                    | 30.59                   |
| For Galvanized Fittings, Add   | 10.35                     |                         |
| 23 21 13 23-1760 EA 2-1/2" x 2", Grooved Concentric Reducer.....                             | 137.56                    | 34.26                   |
| For Galvanized Fittings, Add   | 10.35                     |                         |
| 23 21 13 23-1761 EA 3" x 3/4", Grooved Concentric Reducer.....                               | 750.47                    | 30.17                   |
| For Galvanized Fittings, Add   | 107.21                    |                         |
| 23 21 13 23-1762 EA 3" x 1", Grooved Concentric Reducer.....                                 | 141.55                    | 31.01                   |
| For Galvanized Fittings, Add   | 14.45                     |                         |
| 23 21 13 23-1763 EA 3" x 1-1/4", Grooved Concentric Reducer.....                             | 594.18                    | 32.01                   |
| For Galvanized Fittings, Add   | 83.04                     |                         |
| 23 21 13 23-1764 EA 3" x 1-1/2", Grooved Concentric Reducer.....                             | 559.08                    | 34.26                   |
| For Galvanized Fittings, Add   | 77.16                     |                         |
| 23 21 13 23-1765 EA 3" x 2", Grooved Concentric Reducer.....                                 | 132.62                    | 38.06                   |
| For Galvanized Fittings, Add   | 11.48                     |                         |
| 23 21 13 23-1766 EA 3" x 2-1/2", Grooved Concentric Reducer.....                             | 172.10                    | 45.39                   |
| For Galvanized Fittings, Add   | 15.82                     |                         |
| 23 21 13 23-1767 EA 3-1/2" x 3", Grooved Concentric Reducer.....                             | 184.21                    | 48.92                   |
| For Galvanized Fittings, Add   | 16.86                     |                         |
| 23 21 13 23-1768 EA 4" x 1", Grooved Concentric Reducer.....                                 | 172.12                    | 38.48                   |
| For Galvanized Fittings, Add   | 19.60                     |                         |
| 23 21 13 23-1769 EA 4" x 1-1/4", Grooved Concentric Reducer.....                             | 962.89                    | 39.48                   |
| For Galvanized Fittings, Add   | 154.98                    |                         |
| 23 21 13 23-1770 EA 4" x 1-1/2", Grooved Concentric Reducer.....                             | 753.61                    | 41.87                   |
| For Galvanized Fittings, Add   | 118.48                    |                         |
| 23 21 13 23-1771 EA 4" x 2", Grooved Concentric Reducer.....                                 | 168.93                    | 45.67                   |
| For Galvanized Fittings, Add   | 17.24                     |                         |
| 23 21 13 23-1772 EA 4" x 2-1/2", Grooved Concentric Reducer.....                             | 199.34                    | 48.92                   |
| For Galvanized Fittings, Add   | 21.61                     |                         |
| 23 21 13 23-1773 EA 4" x 3", Grooved Concentric Reducer.....                                 | 204.98                    | 52.72                   |
| For Galvanized Fittings, Add   | 21.61                     |                         |
| 23 21 13 23-1774 EA 4" x 3-1/2", Grooved Concentric Reducer.....                             | 210.62                    | 56.39                   |
| For Galvanized Fittings, Add   | 21.61                     |                         |



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 23 21 | 13 23-1775 | EA  | 5" x 2", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 1,351.40<br>218.10     | 53.15                |
| 23 21 | 13 23-1776 | EA  | 5" x 2-1/2", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i> | 1,071.30<br>169.22     | 56.39                |
| 23 21 | 13 23-1777 | EA  | 5" x 3", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 237.75<br>25.30        | 60.19                |
| 23 21 | 13 23-1778 | EA  | 5" x 4", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 277.69<br>30.21        | 67.68                |
| 23 21 | 13 23-1779 | EA  | 6" x 1", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 320.31<br>43.72        | 57.38                |
| 23 21 | 13 23-1780 | EA  | 6" x 1-1/2", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i> | 1,428.06<br>249.51     | 60.63                |
| 23 21 | 13 23-1781 | EA  | 6" x 2", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 330.87<br>43.72        | 64.43                |
| 23 21 | 13 23-1782 | EA  | 6" x 2-1/2", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i> | 1,446.26<br>250.93     | 67.68                |
| 23 21 | 13 23-1783 | EA  | 6" x 3", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 341.46<br>43.72        | 71.48                |
| 23 21 | 13 23-1784 | EA  | 6" x 4", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 322.48<br>38.08        | 78.95                |
| 23 21 | 13 23-1785 | EA  | 6" x 5", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 431.59<br>56.33        | 86.56                |
| 23 21 | 13 23-1786 | EA  | 8" x 3", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 539.92<br>78.13        | 80.92                |
| 23 21 | 13 23-1787 | EA  | 8" x 4", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 551.18<br>78.13        | 88.39                |
| 23 21 | 13 23-1788 | EA  | 8" x 5", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 562.48<br>78.13        | 95.87                |
| 23 21 | 13 23-1789 | EA  | 8" x 6", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 694.62<br>99.63        | 107.14               |
| 23 21 | 13 23-1790 | EA  | 10" x 4", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 1,144.17<br>186.01     | 98.26                |
| 23 21 | 13 23-1791 | EA  | 10" x 5", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 2,355.97<br>410.03     | 105.74               |
| 23 21 | 13 23-1792 | EA  | 10" x 6", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 1,265.61<br>203.41     | 117.02               |
| 23 21 | 13 23-1793 | EA  | 10" x 8", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 1,279.68<br>203.41     | 126.46               |
| 23 21 | 13 23-1794 | EA  | 12" x 4", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 3,467.58<br>494.97     | 111.94               |
| 23 21 | 13 23-1795 | EA  | 12" x 6", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 1,496.08<br>195.02     | 130.68               |
| 23 21 | 13 23-1796 | EA  | 12" x 8", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 2,163.07<br>292.95     | 140.14               |
| 23 21 | 13 23-1797 | EA  | 12" x 10", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 2,177.95<br>292.95     | 150.00               |
| 23 21 | 13 23-1798 | EA  | 14" x 6", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 6,837.79<br>203.44     | 140.84               |
| 23 21 | 13 23-1799 | EA  | 14" x 8", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 4,114.92<br>119.41     | 150.28               |
| 23 21 | 13 23-1800 | EA  | 14" x 10", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 3,524.23<br>100.82     | 160.16               |
| 23 21 | 13 23-1801 | EA  | 14" x 12", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 3,544.63<br>100.82     | 173.69               |
| 23 21 | 13 23-1802 | EA  | 16" x 8", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>    | 6,233.27<br>183.98     | 160.30               |
| 23 21 | 13 23-1803 | EA  | 16" x 10", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 5,795.96<br>170.10     | 170.16               |
| 23 21 | 13 23-1804 | EA  | 16" x 12", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 5,373.18<br>156.50     | 183.84               |
| 23 21 | 13 23-1805 | EA  | 16" x 14", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 5,388.41<br>156.50     | 193.99               |
| 23 21 | 13 23-1806 | EA  | 18" x 10", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 8,093.21<br>240.20     | 179.61               |
| 23 21 | 13 23-1807 | EA  | 18" x 12", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 7,344.12<br>216.57     | 193.14               |
| 23 21 | 13 23-1808 | EA  | 18" x 14", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 6,691.29<br>196.06     | 203.30               |
| 23 21 | 13 23-1809 | EA  | 18" x 16", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 6,706.51<br>196.06     | 213.58               |
| 23 21 | 13 23-1810 | EA  | 20" x 10", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 8,900.79<br>264.77     | 184.26               |
| 23 21 | 13 23-1811 | EA  | 20" x 12", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 7,649.75<br>225.74     | 197.94               |
| 23 21 | 13 23-1812 | EA  | 20" x 14", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 7,664.99<br>225.74     | 208.08               |
| 23 21 | 13 23-1813 | EA  | 20" x 16", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 6,850.41<br>200.27     | 218.10               |
| 23 21 | 13 23-1814 | EA  | 20" x 18", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 7,297.66<br>213.56     | 227.54               |
| 23 21 | 13 23-1815 | EA  | 24" x 10", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 19,525.96<br>590.01    | 204.99               |
| 23 21 | 13 23-1816 | EA  | 24" x 12", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 19,082.37<br>575.76    | 218.66               |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



| MINOR   | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|------------|-----|---|------------------------|----------------------|
| 23 21   | 13 23-1817 | EA  | 24" x 14", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>      | 16,648.53<br>500.58    | 228.67               |
| 23 21   | 13 23-1818 | EA  | 24" x 16", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>      | 16,663.87<br>500.58    | 238.96               |
| 23 21   | 13 23-1819 | EA  | 24" x 18", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>      | 14,289.99<br>427.28    | 248.27               |
| 23 21   | 13 23-1820 | EA  | 24" x 20", Grooved Concentric Reducer<br><i>For Galvanized Fittings, Add</i>      | 13,064.37<br>389.43    | 253.06               |
| <b>23 21 13 23-1821 Grooved Eccentric Reducers (23 21 13 23-1727)</b> |            |     |   |                        |                      |
| Note: Victaulic No. 51  |            |     |   |                        |                      |
| 23 21   | 13 23-1822 | EA  | 1-1/2" x 3/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 444.85<br>50.00        | 19.32                |
| 23 21   | 13 23-1823 | EA  | 1-1/2" x 1", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 405.77<br>45.13        | 20.16                |
| 23 21   | 13 23-1824 | EA  | 1-1/2" x 1-1/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i> | 399.00<br>44.15        | 21.15                |
| 23 21   | 13 23-1825 | EA  | 2" x 3/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>       | 842.78<br>97.15        | 22.98                |
| 23 21   | 13 23-1826 | EA  | 2" x 1", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 450.53<br>49.83        | 23.96                |
| 23 21   | 13 23-1827 | EA  | 2" x 1-1/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 491.87<br>54.63        | 24.96                |
| 23 21   | 13 23-1828 | EA  | 2" x 1-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 422.13<br>45.73        | 27.77                |
| 23 21   | 13 23-1829 | EA  | 2-1/2" x 3/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>   | 1,093.95<br>126.82     | 25.94                |
| 23 21   | 13 23-1830 | EA  | 2-1/2" x 1", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 1,023.22<br>118.15     | 26.93                |
| 23 21   | 13 23-1831 | EA  | 2-1/2" x 1-1/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i> | 612.53<br>68.62        | 27.77                |
| 23 21   | 13 23-1832 | EA  | 2-1/2" x 1-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i> | 498.16<br>54.37        | 30.59                |
| 23 21   | 13 23-1833 | EA  | 2-1/2" x 2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 233.67<br>21.90        | 34.26                |
| 23 21   | 13 23-1834 | EA  | 3" x 1", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 1,100.83<br>126.74     | 31.01                |
| 23 21   | 13 23-1835 | EA  | 3" x 1-1/4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 1,002.40<br>114.73     | 32.01                |
| 23 21   | 13 23-1836 | EA  | 3" x 1-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 574.66<br>62.89        | 34.26                |
| 23 21   | 13 23-1837 | EA  | 3" x 2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 266.50<br>25.17        | 38.06                |
| 23 21   | 13 23-1838 | EA  | 3" x 2-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 277.43<br>25.17        | 45.39                |
| 23 21   | 13 23-1839 | EA  | 3-1/2" x 3", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 1,231.75<br>139.24     | 48.92                |
| 23 21   | 13 23-1840 | EA  | 4" x 1", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 2,194.99<br>366.53     | 38.48                |
| 23 21   | 13 23-1841 | EA  | 4" x 1-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 1,355.29<br>221.67     | 41.87                |
| 23 21   | 13 23-1842 | EA  | 4" x 2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 324.41<br>43.91        | 45.67                |
| 23 21   | 13 23-1843 | EA  | 4" x 2-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 329.35<br>43.91        | 48.92                |
| 23 21   | 13 23-1844 | EA  | 4" x 3", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 334.99<br>43.91        | 52.72                |
| 23 21   | 13 23-1845 | EA  | 5" x 2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 1,504.95<br>244.44     | 53.15                |
| 23 21   | 13 23-1846 | EA  | 5" x 2-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 1,298.89<br>208.25     | 56.39                |
| 23 21   | 13 23-1847 | EA  | 5" x 3", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 1,263.12<br>201.15     | 60.19                |
| 23 21   | 13 23-1848 | EA  | 5" x 4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 450.24<br>59.81        | 67.68                |
| 23 21   | 13 23-1849 | EA  | 6" x 1", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 2,301.67<br>413.44     | 57.38                |
| 23 21   | 13 23-1850 | EA  | 6" x 2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 2,117.16<br>377.04     | 64.43                |
| 23 21   | 13 23-1851 | EA  | 6" x 2-1/2", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>     | 2,507.57<br>448.97     | 67.68                |
| 23 21   | 13 23-1852 | EA  | 6" x 3", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 571.45<br>86.64        | 71.48                |
| 23 21   | 13 23-1853 | EA  | 6" x 4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 524.82<br>75.83        | 78.95                |
| 23 21   | 13 23-1854 | EA  | 6" x 5", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 617.21<br>90.97        | 86.56                |
| 23 21   | 13 23-1855 | EA  | 8" x 3", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 2,468.95<br>438.08     | 80.92                |
| 23 21   | 13 23-1856 | EA  | 8" x 4", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 2,184.26<br>382.86     | 88.39                |
| 23 21   | 13 23-1857 | EA  | 8" x 5", Grooved Eccentric Reducer<br><i>For Galvanized Fittings, Add</i>         | 2,054.07<br>356.46     | 95.87                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1858 EA 8" x 6", Grooved Eccentric Reducer .....                 | 984.77                    | 107.14                  |
| For Galvanized Fittings, Add   | 153.77                    |                         |
| 23 21 13 23-1859 EA 10" x 4", Grooved Eccentric Reducer .....                | 3,912.38                  | 98.26                   |
| For Galvanized Fittings, Add   | 702.55                    |                         |
| 23 21 13 23-1860 EA 10" x 5", Grooved Eccentric Reducer .....                | 3,705.84                  | 105.74                  |
| For Galvanized Fittings, Add   | 661.91                    |                         |
| 23 21 13 23-1861 EA 10" x 6", Grooved Eccentric Reducer .....                | 2,850.46                  | 117.02                  |
| For Galvanized Fittings, Add   | 499.14                    |                         |
| 23 21 13 23-1862 EA 10" x 8", Grooved Eccentric Reducer .....                | 2,453.59                  | 126.46                  |
| For Galvanized Fittings, Add   | 422.46                    |                         |
| 23 21 13 23-1863 EA 12" x 4", Grooved Eccentric Reducer .....                | 3,996.13                  | 111.94                  |
| For Galvanized Fittings, Add   | 577.70                    |                         |
| 23 21 13 23-1864 EA 12" x 6", Grooved Eccentric Reducer .....                | 3,769.41                  | 130.68                  |
| For Galvanized Fittings, Add   | 539.24                    |                         |
| 23 21 13 23-1865 EA 12" x 8", Grooved Eccentric Reducer .....                | 3,692.08                  | 140.14                  |
| For Galvanized Fittings, Add   | 525.44                    |                         |
| 23 21 13 23-1866 EA 12" x 10", Grooved Eccentric Reducer .....               | 3,343.79                  | 150.00                  |
| For Galvanized Fittings, Add   | 470.64                    |                         |
| 23 21 13 23-1867 EA 14" x 6", Grooved Eccentric Reducer .....                | 9,227.70                  | 140.84                  |
| For Galvanized Fittings, Add   | 276.81                    |                         |
| 23 21 13 23-1868 EA 14" x 8", Grooved Eccentric Reducer .....                | 5,989.82                  | 150.28                  |
| For Galvanized Fittings, Add   | 176.97                    |                         |
| 23 21 13 23-1869 EA 14" x 10", Grooved Eccentric Reducer .....               | 5,727.49                  | 160.16                  |
| For Galvanized Fittings, Add   | 168.46                    |                         |
| 23 21 13 23-1870 EA 14" x 12", Grooved Eccentric Reducer .....               | 5,747.89                  | 173.69                  |
| For Galvanized Fittings, Add   | 168.46                    |                         |
| 23 21 13 23-1871 EA 16" x 8", Grooved Eccentric Reducer .....                | 10,198.02                 | 160.30                  |
| For Galvanized Fittings, Add   | 305.70                    |                         |
| 23 21 13 23-1872 EA 16" x 10", Grooved Eccentric Reducer .....               | 9,456.80                  | 170.16                  |
| For Galvanized Fittings, Add   | 282.49                    |                         |
| 23 21 13 23-1873 EA 16" x 12", Grooved Eccentric Reducer .....               | 8,921.76                  | 183.84                  |
| For Galvanized Fittings, Add   | 265.44                    |                         |
| 23 21 13 23-1874 EA 16" x 14", Grooved Eccentric Reducer .....               | 8,936.99                  | 193.99                  |
| For Galvanized Fittings, Add   | 265.44                    |                         |
| 23 21 13 23-1875 EA 18" x 10", Grooved Eccentric Reducer .....               | 12,784.31                 | 179.61                  |
| For Galvanized Fittings, Add   | 384.21                    |                         |
| 23 21 13 23-1876 EA 18" x 12", Grooved Eccentric Reducer .....               | 12,041.25                 | 193.14                  |
| For Galvanized Fittings, Add   | 360.78                    |                         |
| 23 21 13 23-1877 EA 18" x 14", Grooved Eccentric Reducer .....               | 10,981.80                 | 203.30                  |
| For Galvanized Fittings, Add   | 327.78                    |                         |
| 23 21 13 23-1878 EA 18" x 16", Grooved Eccentric Reducer .....               | 10,997.02                 | 213.58                  |
| For Galvanized Fittings, Add   | 327.78                    |                         |
| 23 21 13 23-1879 EA 20" x 10", Grooved Eccentric Reducer .....               | 16,768.09                 | 184.26                  |
| For Galvanized Fittings, Add   | 506.30                    |                         |
| 23 21 13 23-1880 EA 20" x 12", Grooved Eccentric Reducer .....               | 12,495.54                 | 197.94                  |
| For Galvanized Fittings, Add   | 374.51                    |                         |
| 23 21 13 23-1881 EA 20" x 14", Grooved Eccentric Reducer .....               | 11,748.15                 | 208.08                  |
| For Galvanized Fittings, Add   | 351.09                    |                         |
| 23 21 13 23-1882 EA 20" x 16", Grooved Eccentric Reducer .....               | 11,578.13                 | 218.10                  |
| For Galvanized Fittings, Add   | 345.41                    |                         |
| 23 21 13 23-1883 EA 20" x 18", Grooved Eccentric Reducer .....               | 11,161.30                 | 227.54                  |
| For Galvanized Fittings, Add   | 332.18                    |                         |
| 23 21 13 23-1884 EA 24" x 12", Grooved Eccentric Reducer .....               | 24,201.93                 | 218.66                  |
| For Galvanized Fittings, Add   | 732.93                    |                         |
| 23 21 13 23-1885 EA 24" x 14", Grooved Eccentric Reducer .....               | 20,690.41                 | 228.67                  |
| For Galvanized Fittings, Add   | 624.67                    |                         |
| 23 21 13 23-1886 EA 24" x 16", Grooved Eccentric Reducer .....               | 20,705.75                 | 238.96                  |
| For Galvanized Fittings, Add   | 624.67                    |                         |
| 23 21 13 23-1887 EA 24" x 18", Grooved Eccentric Reducer .....               | 19,564.69                 | 248.27                  |
| For Galvanized Fittings, Add   | 589.21                    |                         |
| 23 21 13 23-1888 EA 24" x 20", Grooved Eccentric Reducer .....               | 17,893.55                 | 253.06                  |
| For Galvanized Fittings, Add   | 537.69                    |                         |
| <br>23 21 13 23-1889 Grooved, Close Nipple <small>(23 21 13 23-1727)</small> |                           |                         |
| Note: Victaulic No. 143  |                           |                         |
| 23 21 13 23-1890 EA 1-1/4" Ductile Iron, Grooved, Close Nipple .....         | 68.56                     | 18.61                   |
| For Galvanized Fittings, Add   | 7.26                      |                         |
| For 300 LB Rating, Add   | 6.05                      |                         |
| For Galvanized Fittings, Add   | 10.33                     |                         |
| 23 21 13 23-1891 EA 1-1/2" Ductile Iron, Grooved, Close Nipple .....         | 79.23                     | 23.26                   |
| For Galvanized Fittings, Add   | 7.92                      |                         |
| For 300 LB Rating, Add   | 6.60                      |                         |
| For Galvanized Fittings, Add   | 11.26                     |                         |
| 23 21 13 23-1892 EA 2" Ductile Iron, Grooved, Close Nipple .....             | 99.54                     | 30.71                   |
| For Galvanized Fittings, Add   | 9.54                      |                         |
| For 300 LB Rating, Add   | 7.95                      |                         |
| For Galvanized Fittings, Add   | 13.57                     |                         |
| 23 21 13 23-1893 EA 2-1/2" Ductile Iron, Grooved, Close Nipple .....         | 119.04                    | 37.22                   |
| For Galvanized Fittings, Add   | 11.28                     |                         |
| For 300 LB Rating, Add   | 9.40                      |                         |
| For Galvanized Fittings, Add   | 16.04                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 21 13 23-1894 Grooved Caps</b> <small>(23 21 13 23-1727)</small>              |                           |                         |
| Note: Victaulic No. 60  |                           |                         |
| 23 21 13 23-1895 EA 1" Carbon Steel Grooved Cap .....                               | 147.12                    | 5.78                    |
| 23 21 13 23-1896 EA 1-1/4" Carbon Steel Grooved Cap .....                           | 149.94                    | 7.19                    |
| 23 21 13 23-1897 EA 1-1/2" Carbon Steel Grooved Cap .....                           | 153.04                    | 8.74                    |
| 23 21 13 23-1898 EA 2" Carbon Steel Grooved Cap .....                               | 158.54                    | 11.56                   |
| 23 21 13 23-1899 EA 2-1/2" Carbon Steel Grooved Cap .....                           | 163.62                    | 14.10                   |
| 23 21 13 23-1900 EA 3" Carbon Steel Grooved Cap .....                               | 169.54                    | 17.05                   |
| 23 21 13 23-1901 EA 4" Carbon Steel Grooved Cap .....                               | 189.40                    | 22.56                   |
| 23 21 13 23-1902 EA 5" Carbon Steel Grooved Cap .....                               | 388.02                    | 28.06                   |
| 23 21 13 23-1903 EA 6" Carbon Steel Grooved Cap .....                               | 404.90                    | 36.79                   |
| 23 21 13 23-1904 EA 8" Carbon Steel Grooved Cap .....                               | 717.65                    | 43.70                   |
| 23 21 13 23-1905 EA 10" Carbon Steel Grooved Cap .....                              | 1,201.08                  | 51.03                   |
| 23 21 13 23-1906 EA 12" Carbon Steel Grooved Cap .....                              | 2,044.17                  | 61.19                   |
| <b>23 21 13 23-1907 Grooved Couplings</b> <small>(23 21 13 23-1484)</small>         |                           |                         |
| <b>23 21 13 23-1908 Flexible Grooved Coupling</b> <small>(23 21 13 23-1907)</small> |                           |                         |
| Note: Victaulic Style 77  |                           |                         |
| 23 21 13 23-1909 EA 3/4" Grooved Standard Coupling .....                            | 32.48                     | 7.61                    |
| For Galvanized Fittings, Add  | 5.87                      |                         |
| 23 21 13 23-1910 EA 1" Grooved Standard Coupling .....                              | 32.48                     | 7.61                    |
| For Galvanized Fittings, Add  | 5.87                      |                         |
| 23 21 13 23-1911 EA 1-1/4" Grooved Standard Coupling .....                          | 42.30                     | 9.58                    |
| For Galvanized Fittings, Add  | 7.81                      |                         |
| 23 21 13 23-1912 EA 1-1/2" Grooved Standard Coupling .....                          | 47.69                     | 11.42                   |
| For Galvanized Fittings, Add  | 8.54                      |                         |
| 23 21 13 23-1913 EA 2" Grooved Standard Coupling .....                              | 55.26                     | 15.37                   |
| For Galvanized Fittings, Add  | 9.02                      |                         |
| 23 21 13 23-1914 EA 2-1/2" Grooved Standard Coupling .....                          | 66.64                     | 18.75                   |
| For Galvanized Fittings, Add  | 10.80                     |                         |
| 23 21 13 23-1915 EA 3" Grooved Standard Coupling .....                              | 72.08                     | 22.41                   |
| For Galvanized Fittings, Add  | 10.80                     |                         |
| 23 21 13 23-1916 EA 3-1/2" Grooved Standard Coupling .....                          | 101.53                    | 26.23                   |
| For Galvanized Fittings, Add  | 17.40                     |                         |
| 23 21 13 23-1917 EA 4" Grooved Standard Coupling .....                              | 107.04                    | 29.89                   |
| For Galvanized Fittings, Add  | 17.40                     |                         |
| 23 21 13 23-1918 EA 5" Grooved Standard Coupling .....                              | 151.39                    | 37.50                   |
| For Galvanized Fittings, Add  | 26.68                     |                         |
| 23 21 13 23-1919 EA 6" Grooved Standard Coupling .....                              | 186.05                    | 48.92                   |
| For Galvanized Fittings, Add  | 31.53                     |                         |
| 23 21 13 23-1920 EA 8" Grooved Standard Coupling .....                              | 270.98                    | 58.36                   |
| For Galvanized Fittings, Add  | 51.40                     |                         |
| 23 21 13 23-1921 EA 10" Grooved Standard Coupling .....                             | 409.98                    | 69.93                   |
| For Galvanized Fittings, Add  | 85.43                     |                         |
| 23 21 13 23-1922 EA 12" Grooved Standard Coupling .....                             | 462.10                    | 76.55                   |
| For Galvanized Fittings, Add  | 97.26                     |                         |
| 23 21 13 23-1923 EA 14" Grooved Standard Coupling .....                             | 574.97                    | 102.07                  |
| For Galvanized Fittings, Add  | 118.16                    |                         |
| 23 21 13 23-1924 EA 16" Grooved Standard Coupling .....                             | 737.09                    | 122.51                  |
| For Galvanized Fittings, Add  | 154.99                    |                         |
| 23 21 13 23-1925 EA 18" Grooved Standard Coupling .....                             | 852.22                    | 136.04                  |
| For Galvanized Fittings, Add  | 181.51                    |                         |
| 23 21 13 23-1926 EA 20" Grooved Standard Coupling .....                             | 1,249.27                  | 153.11                  |
| For Galvanized Fittings, Add  | 285.55                    |                         |
| 23 21 13 23-1927 EA 24" Grooved Standard Coupling .....                             | 1,400.80                  | 188.35                  |
| For Galvanized Fittings, Add  | 313.15                    |                         |
| <b>23 21 13 23-1928 Zero-Flex® Rigid Coupling</b> <small>(23 21 13 23-1907)</small> |                           |                         |
| Note: Victaulic Style 07  |                           |                         |
| 23 21 13 23-1929 EA 1" Grooved Rigid Coupling .....                                 | 40.68                     | 7.61                    |
| For Galvanized Fittings, Add  | 7.15                      |                         |
| 23 21 13 23-1930 EA 1-1/4" Grooved Rigid Coupling .....                             | 43.57                     | 9.58                    |
| For Galvanized Fittings, Add  | 7.15                      |                         |
| 23 21 13 23-1931 EA 1-1/2" Grooved Rigid Coupling .....                             | 46.37                     | 11.42                   |
| For Galvanized Fittings, Add  | 7.15                      |                         |
| 23 21 13 23-1932 EA 2" Grooved Rigid Coupling .....                                 | 52.96                     | 15.37                   |
| For Galvanized Fittings, Add  | 7.33                      |                         |
| 23 21 13 23-1933 EA 2-1/2" Grooved Rigid Coupling .....                             | 62.56                     | 18.75                   |
| For Galvanized Fittings, Add  | 8.45                      |                         |
| 23 21 13 23-1934 EA 3" Grooved Rigid Coupling .....                                 | 68.00                     | 22.41                   |
| For Galvanized Fittings, Add  | 8.45                      |                         |
| 23 21 13 23-1935 EA 3-1/2" Grooved Rigid Coupling .....                             | 79.69                     | 26.23                   |
| For Galvanized Fittings, Add  | 9.87                      |                         |
| 23 21 13 23-1936 EA 4" Grooved Rigid Coupling .....                                 | 102.01                    | 29.89                   |
| For Galvanized Fittings, Add  | 13.99                     |                         |
| 23 21 13 23-1937 EA 5" Grooved Rigid Coupling .....                                 | 130.29                    | 37.50                   |
| For Galvanized Fittings, Add  | 18.17                     |                         |
| 23 21 13 23-1938 EA 6" Grooved Rigid Coupling .....                                 | 172.57                    | 48.92                   |
| For Galvanized Fittings, Add  | 24.29                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-1939 EA 8" Grooved Rigid Coupling .....                                | 243.60                    | 58.36                   |
| For Galvanized Fittings, Add   | 38.27                     |                         |
| 23 21 13 23-1940 EA 10" Grooved Rigid Coupling .....                               | 384.76                    | 69.93                   |
| For Galvanized Fittings, Add   | 68.57                     |                         |
| 23 21 13 23-1941 EA 12" Grooved Rigid Coupling .....                               | 427.92                    | 76.55                   |
| For Galvanized Fittings, Add   | 76.73                     |                         |
| 23 21 13 23-1942 EA 14" Grooved Rigid Coupling .....                               | 562.16                    | 102.07                  |
| For Galvanized Fittings, Add   | 100.25                    |                         |
| 23 21 13 23-1943 EA 16" Grooved Rigid Coupling .....                               | 717.23                    | 122.51                  |
| For Galvanized Fittings, Add   | 130.75                    |                         |
| 23 21 13 23-1944 EA 18" Grooved Rigid Coupling .....                               | 820.88                    | 136.04                  |
| For Galvanized Fittings, Add   | 151.15                    |                         |
| 23 21 13 23-1945 EA 20" Grooved Rigid Coupling .....                               | 963.94                    | 153.11                  |
| For Galvanized Fittings, Add   | 179.95                    |                         |
| 23 21 13 23-1946 EA 24" Grooved Rigid Coupling .....                               | 1,364.27                  | 188.35                  |
| For Galvanized Fittings, Add   | 265.05                    |                         |
| <b>23 21 13 23-1947 Large Diameter Grooved Coupling</b> (23 21 13 23-1907)         |                           |                         |
| Note: Victaulic Style 770  |                           |                         |
| 23 21 13 23-1948 EA 28" Grooved Coupling.....                                      | 1,354.30                  | 37.50                   |
| For Galvanized Fittings, Add   | 181.75                    |                         |
| 23 21 13 23-1949 EA 30" Grooved Coupling.....                                      | 1,568.04                  | 48.92                   |
| For Galvanized Fittings, Add   | 209.25                    |                         |
| 23 21 13 23-1950 EA 32" Grooved Coupling.....                                      | 2,325.69                  | 58.36                   |
| For Galvanized Fittings, Add   | 313.36                    |                         |
| 23 21 13 23-1951 EA 36" Grooved Coupling.....                                      | 3,086.82                  | 69.93                   |
| For Galvanized Fittings, Add   | 417.47                    |                         |
| 23 21 13 23-1952 EA 42" Grooved Coupling.....                                      | 6,145.41                  | 76.55                   |
| For Galvanized Fittings, Add   | 844.30                    |                         |
| <b>23 21 13 23-1953 Flexible Coupling</b> (23 21 13 23-1907)                       |                           |                         |
| Note: Victaulic Style 75   |                           |                         |
| 23 21 13 23-1954 EA 1-1/2" Grooved Flexible Coupling .....                         | 43.72                     | 11.42                   |
| For Galvanized Fittings, Add   | 6.79                      |                         |
| 23 21 13 23-1955 EA 2" Grooved Flexible Coupling .....                             | 50.24                     | 15.37                   |
| For Galvanized Fittings, Add   | 6.96                      |                         |
| 23 21 13 23-1956 EA 2-1/2" Grooved Flexible Coupling .....                         | 59.59                     | 18.75                   |
| For Galvanized Fittings, Add   | 8.07                      |                         |
| 23 21 13 23-1957 EA 3" Grooved Flexible Coupling .....                             | 70.16                     | 22.41                   |
| For Galvanized Fittings, Add   | 9.38                      |                         |
| 23 21 13 23-1958 EA 3-1/2" Grooved Flexible Coupling .....                         | 91.31                     | 26.23                   |
| For Galvanized Fittings, Add   | 13.29                     |                         |
| 23 21 13 23-1959 EA 4" Grooved Flexible Coupling .....                             | 96.82                     | 29.89                   |
| For Galvanized Fittings, Add   | 13.29                     |                         |
| 23 21 13 23-1960 EA 5" Grooved Flexible Coupling .....                             | 131.03                    | 37.50                   |
| For Galvanized Fittings, Add   | 19.18                     |                         |
| 23 21 13 23-1961 EA 6" Grooved Flexible Coupling .....                             | 163.67                    | 48.92                   |
| For Galvanized Fittings, Add   | 23.10                     |                         |
| 23 21 13 23-1962 EA 8" Grooved Flexible Coupling .....                             | 229.26                    | 58.36                   |
| For Galvanized Fittings, Add   | 36.31                     |                         |
| <b>23 21 13 23-1963 Installation-Ready™ Coupling</b> (23 21 13 23-1907)            |                           |                         |
| Note: Victaulic Style 009N   |                           |                         |
| 23 21 13 23-1964 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling .....        | 81.90                     | 7.12                    |
| For Galvanized Fittings, Add   | 18.20                     |                         |
| 23 21 13 23-1965 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling .....        | 85.47                     | 8.52                    |
| For Galvanized Fittings, Add   | 18.88                     |                         |
| 23 21 13 23-1966 EA 2" Ductile Iron, Installation-Ready™ Coupling .....            | 99.43                     | 11.44                   |
| For Galvanized Fittings, Add   | 21.02                     |                         |
| 23 21 13 23-1967 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling .....        | 115.57                    | 13.87                   |
| For Galvanized Fittings, Add   | 24.21                     |                         |
| 23 21 13 23-1968 EA 3" Ductile Iron, Installation-Ready™ Coupling .....            | 132.25                    | 16.65                   |
| For Galvanized Fittings, Add   | 27.39                     |                         |
| 23 21 13 23-1969 EA 4" Ductile Iron, Installation-Ready™ Coupling .....            | 183.97                    | 22.24                   |
| For Galvanized Fittings, Add   | 38.47                     |                         |
| 23 21 13 23-1970 EA 5" Ductile Iron, Installation-Ready™ Coupling .....            | 287.94                    | 27.82                   |
| For Galvanized Fittings, Add   | 62.92                     |                         |
| 23 21 13 23-1971 EA 6" Ductile Iron, Installation-Ready™ Coupling .....            | 348.81                    | 36.38                   |
| For Galvanized Fittings, Add   | 75.18                     |                         |
| 23 21 13 23-1972 EA 8" Ductile Iron, Installation-Ready™ Coupling .....            | 556.23                    | 43.27                   |
| For Galvanized Fittings, Add   | 125.61                    |                         |
| <b>23 21 13 23-1973 Grooved Strainers And Suction Diffusers</b> (23 21 13 23-1484) |                           |                         |
| <b>23 21 13 23-1974 Grooved Wye Strainers</b> (23 21 13 23-1973)                   |                           |                         |
| Note: Victaulic Style 732  |                           |                         |
| 23 21 13 23-1975 EA 2" Grooved Wye Strainer.....                                   | 2,531.02                  | 31.01                   |
| 23 21 13 23-1976 EA 2-1/2" Grooved Wye Strainer.....                               | 2,666.32                  | 37.64                   |
| 23 21 13 23-1977 EA 3" Grooved Wye Strainer.....                                   | 2,999.72                  | 45.11                   |
| 23 21 13 23-1978 EA 4" Grooved Wye Strainer.....                                   | 3,408.28                  | 60.19                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR   |     | TOTAL DIRECT   |           | DEMOLITION |           |
|---|-----|--|-----------|------------|-----------|
| CSI   | UOM | DESCRIPTION  | UNIT COST | UNIT COST  | UNIT COST |
| 23 21 13 23-1979  | EA  | 5" Grooved Wye Strainer .....                                    | 4,919.31  |            | 75.29     |
| 23 21 13 23-1980  | EA  | 6" Grooved Wye Strainer .....                                    | 5,365.52  |            | 97.84     |
| 23 21 13 23-1981  | EA  | 8" Grooved Wye Strainer .....                                    | 8,175.30  |            | 116.59    |
| 23 21 13 23-1982  | EA  | 10" Grooved Wye Strainer .....                                   | 13,065.08 |            | 136.33    |
| 23 21 13 23-1983  | EA  | 12" Grooved Wye Strainer .....                                   | 22,712.08 |            | 163.68    |
| <b>23 21 13 23-1984 Grooved Tee Type Strainers (23 21 13 23-1973)</b>                         |     |  |           |            |           |
| Note: Victaulic Style 730   |     |  |           |            |           |
| 23 21 13 23-1985  | EA  | 1-1/2" Grooved Tee Type Strainer .....                           | 1,952.49  |            | 23.54     |
| 23 21 13 23-1986  | EA  | 2" Grooved Tee Type Strainer .....                               | 2,500.35  |            | 31.01     |
| 23 21 13 23-1987  | EA  | 2-1/2" Grooved Tee Type Strainer .....                           | 2,634.44  |            | 37.64     |
| 23 21 13 23-1988  | EA  | 3" Grooved Tee Type Strainer .....                               | 2,963.71  |            | 45.11     |
| 23 21 13 23-1989  | EA  | 4" Grooved Tee Type Strainer .....                               | 3,367.45  |            | 60.19     |
| 23 21 13 23-1990  | EA  | 5" Grooved Tee Type Strainer .....                               | 4,859.87  |            | 75.29     |
| 23 21 13 23-1991  | EA  | 6" Grooved Tee Type Strainer .....                               | 5,301.43  |            | 97.84     |
| 23 21 13 23-1992  | EA  | 8" Grooved Tee Type Strainer .....                               | 8,076.06  |            | 116.59    |
| 23 21 13 23-1993  | EA  | 10" Grooved Tee Type Strainer .....                              | 11,809.08 |            | 136.33    |
| 23 21 13 23-1994  | EA  | 12" Grooved Tee Type Strainer .....                              | 15,183.69 |            | 163.68    |
| 23 21 13 23-1995  | EA  | 14" Grooved Tee Type Strainer .....                              | 53,523.91 |            | 184.26    |
| 23 21 13 23-1996  | EA  | 16" Grooved Tee Type Strainer .....                              | 66,484.84 |            | 204.00    |
| 23 21 13 23-1997  | EA  | 18" Grooved Tee Type Strainer .....                              | 87,378.68 |            | 222.89    |
| <b>23 21 13 23-1998 Grooved Suction Diffuser (23 21 13 23-1973)</b>                           |     |  |           |            |           |
| Note: Victaulic Style 731   |     |  |           |            |           |
| 23 21 13 23-1999  | EA  | 2-1/2" Grooved x 2" Flanged Suction Diffuser .....               | 5,147.46  |            | 34.82     |
| 23 21 13 23-2000  | EA  | 3" Grooved x 2" Flanged Suction Diffuser .....                   | 5,464.94  |            | 38.48     |
| 23 21 13 23-2001  | EA  | 3" Grooved x 2-1/2" Flanged Suction Diffuser .....               | 3,954.90  |            | 45.11     |
| 23 21 13 23-2002  | EA  | 3" Grooved x 3" Flanged Suction Diffuser .....                   | 4,011.86  |            | 48.92     |
| 23 21 13 23-2003  | EA  | 4" Grooved x 2-1/2" Flanged Suction Diffuser .....               | 4,344.22  |            | 48.92     |
| 23 21 13 23-2004  | EA  | 4" Grooved x 3" Flanged Suction Diffuser .....                   | 4,686.86  |            | 52.72     |
| 23 21 13 23-2005  | EA  | 4" Grooved x 4" Flanged Suction Diffuser .....                   | 5,415.84  |            | 52.72     |
| 23 21 13 23-2006  | EA  | 5" Grooved x 4" Flanged Suction Diffuser .....                   | 6,050.00  |            | 67.68     |
| 23 21 13 23-2007  | EA  | 5" Grooved x 5" Flanged Suction Diffuser .....                   | 6,357.50  |            | 71.48     |
| 23 21 13 23-2008  | EA  | 6" Grooved x 4" Flanged Suction Diffuser .....                   | 6,460.77  |            | 78.95     |
| 23 21 13 23-2009  | EA  | 6" Grooved x 5" Flanged Suction Diffuser .....                   | 7,716.69  |            | 86.56     |
| 23 21 13 23-2010  | EA  | 6" Grooved x 6" Flanged Suction Diffuser .....                   | 8,015.79  |            | 92.20     |
| 23 21 13 23-2011  | EA  | 8" Grooved x 5" Flanged Suction Diffuser .....                   | 8,225.24  |            | 95.87     |
| 23 21 13 23-2012  | EA  | 8" Grooved x 6" Flanged Suction Diffuser .....                   | 8,682.54  |            | 107.14    |
| 23 21 13 23-2013  | EA  | 8" Grooved x 8" Flanged Suction Diffuser .....                   | 14,839.81 |            | 116.59    |
| 23 21 13 23-2014  | EA  | 10" Grooved x 8" Flanged Suction Diffuser .....                  | 16,737.20 |            | 126.04    |
| 23 21 13 23-2015  | EA  | 10" Grooved x 10" Flanged Suction Diffuser .....                 | 20,135.92 |            | 130.68    |
| 23 21 13 23-2016  | EA  | 12" Grooved x 10" Flanged Suction Diffuser .....                 | 23,827.64 |            | 150.42    |
| 23 21 13 23-2017  | EA  | 12" Grooved x 12" Flanged Suction Diffuser .....                 | 33,069.66 |            | 159.88    |
| 23 21 13 23-2018  | EA  | 14" Grooved x 10" Flanged Suction Diffuser .....                 | 30,793.85 |            | 159.88    |
| 23 21 13 23-2019  | EA  | 14" Grooved x 12" Flanged Suction Diffuser .....                 | 34,391.17 |            | 173.97    |
| 23 21 13 23-2020  | EA  | 14" Grooved x 14" Flanged Suction Diffuser .....                 | 41,722.90 |            | 184.26    |
| 23 21 13 23-2021  | EA  | 16" Grooved x 14" Flanged Suction Diffuser .....                 | 42,955.01 |            | 193.70    |
| <b>23 21 13 23-2022 Grooved Steel Valves (23 21 13 23-1484)</b>                               |     |  |           |            |           |
| <b>23 21 13 23-2023 Grooved Butterfly Valves With Standard Trim (23 21 13 23-2022)</b>        |     |  |           |            |           |
| 23 21 13 23-2024  | EA  | 1-1/2" Butterfly Valve, Grooved, With Standard Trim .....        | 295.25    |            | 15.37     |
| 23 21 13 23-2025  | EA  | 2" Butterfly Valve, Grooved, With Standard Trim .....            | 302.52    |            | 20.16     |
| 23 21 13 23-2026  | EA  | 3" Butterfly Valve, Grooved, With Standard Trim .....            | 495.34    |            | 29.89     |
| 23 21 13 23-2027  | EA  | 4" Butterfly Valve, Grooved, With Standard Trim .....            | 665.07    |            | 39.34     |
| 23 21 13 23-2028  | EA  | 6" Butterfly Valve, Grooved, With Standard Trim .....            | 1,444.70  |            | 64.43     |
| 23 21 13 23-2029  | EA  | 8" Butterfly Valve, Grooved, With Standard Trim .....            | 2,002.54  |            | 90.65     |
| 23 21 13 23-2030  | EA  | 10" Butterfly Valve, Grooved, With Standard Trim .....           | 3,002.87  |            | 122.51    |
| <b>23 21 13 23-2031 Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-2022)</b> |     |  |           |            |           |
| 23 21 13 23-2032  | EA  | 1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim ..... | 441.07    |            | 15.37     |
| 23 21 13 23-2033  | EA  | 2" Butterfly Valve, Grooved, With Stainless Steel Trim .....     | 448.34    |            | 20.16     |
| 23 21 13 23-2034  | EA  | 3" Butterfly Valve, Grooved, With Stainless Steel Trim .....     | 693.01    |            | 29.89     |
| 23 21 13 23-2035  | EA  | 4" Butterfly Valve, Grooved, With Stainless Steel Trim .....     | 882.19    |            | 39.34     |
| 23 21 13 23-2036  | EA  | 6" Butterfly Valve, Grooved, With Stainless Steel Trim .....     | 1,684.50  |            | 64.43     |
| 23 21 13 23-2037  | EA  | 8" Butterfly Valve, Grooved, With Stainless Steel Trim .....     | 2,793.24  |            | 90.65     |
| 23 21 13 23-2038  | EA  | 10" Butterfly Valve, Grooved, With Stainless Steel Trim .....    | 4,396.31  |            | 122.51    |
| <b>23 21 13 23-2039 Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-2022)</b>  |     |  |           |            |           |
| Note: Victaulic No. 721   |     |  |           |            |           |
| 23 21 13 23-2040  | EA  | 1-1/2" Ball Valve, Grooved, With Standard Trim .....             | 249.92    |            | 15.08     |
| 23 21 13 23-2041  | EA  | 2" Ball Valve, Grooved, With Standard Trim .....                 | 287.16    |            | 20.72     |
| 23 21 13 23-2042  | EA  | 2-1/2" Ball Valve, Grooved, With Standard Trim .....             | 648.67    |            | 25.38     |
| 23 21 13 23-2043  | EA  | 3" Ball Valve, Grooved, With Standard Trim .....                 | 1,059.89  |            | 30.03     |
| 23 21 13 23-2044  | EA  | 4" Ball Valve, Grooved, With Standard Trim .....                 | 1,648.13  |            | 39.48     |
| 23 21 13 23-2045  | EA  | 6" Ball Valve, Grooved, With Standard Trim .....                 | 5,105.33  |            | 64.85     |



| MINOR | CSI    | UOM  | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|--------|------|--|------------------------|----------------------|
| 23 21 | 13 23- | 2046 | <b>Grooved Ball Valves With Stainless Steel Trim And Handle</b> <small>(23 21 13 23-2022)</small>  |                        |                      |
|       |        |      | Note: Victaulic No. 721  |                        |                      |
|       |        |      | 23 21 13 23-2047 EA 1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....   | 265.89                 | 15.08                |
|       |        |      | 23 21 13 23-2048 EA 2" Ball Valve, Grooved, With Stainless Steel Trim.....   | 452.95                 | 20.72                |
|       |        |      | 23 21 13 23-2049 EA 2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....   | 1,171.44               | 25.38                |
|       |        |      | 23 21 13 23-2050 EA 3" Ball Valve, Grooved, With Stainless Steel Trim.....   | 1,513.94               | 30.03                |
|       |        |      | 23 21 13 23-2051 EA 4" Ball Valve, Grooved, With Stainless Steel Trim.....   | 2,067.72               | 39.48                |
|       |        |      | 23 21 13 23-2052 EA 6" Ball Valve, Grooved, With Stainless Steel Trim.....   | 5,625.26               | 64.85                |
| 23 21 | 13 23- | 2053 | <b>Grooved Check Valves</b> <small>(23 21 13 23-2022)</small>  |                        |                      |
|       |        |      | Note: Victaulic No. 712  |                        |                      |
|       |        |      | 23 21 13 23-2054 EA 2" Check Valve, Grooved.....   | 378.43                 | 20.72                |
|       |        |      | 23 21 13 23-2055 EA 2-1/2" Check Valve, Grooved.....   | 611.81                 | 25.38                |
|       |        |      | 23 21 13 23-2056 EA 3" Check Valve, Grooved.....   | 713.00                 | 30.03                |
|       |        |      | 23 21 13 23-2057 EA 4" Check Valve, Grooved.....   | 1,009.64               | 39.48                |
| 23 21 | 13 23- | 2058 | <b>Grooved Vic-Check Check Valves</b> <small>(23 21 13 23-2022)</small>  |                        |                      |
|       |        |      | Note: Victaulic No. 716  |                        |                      |
|       |        |      | 23 21 13 23-2059 EA 2-1/2" "Vic-Check" Check Valve, Grooved.....   | 490.57                 | 25.38                |
|       |        |      | 23 21 13 23-2060 EA 3" "Vic-Check" Check Valve, Grooved.....   | 497.43                 | 30.03                |
|       |        |      | 23 21 13 23-2061 EA 4" "Vic-Check" Check Valve, Grooved.....   | 624.00                 | 39.48                |
|       |        |      | 23 21 13 23-2062 EA 6" "Vic-Check" Check Valve, Grooved.....   | 1,212.39               | 64.85                |
|       |        |      | 23 21 13 23-2063 EA 8" "Vic-Check" Check Valve, Grooved.....   | 1,659.42               | 90.23                |
|       |        |      | 23 21 13 23-2064 EA 10" "Vic-Check" Check Valve, Grooved.....  | 4,595.19               | 122.23               |
|       |        |      | 23 21 13 23-2065 EA 12" "Vic-Check" Check Valve, Grooved.....  | 5,440.32               | 141.12               |
| 23 21 | 13 23- | 2066 | <b>Grooved Plug Valves With Lever Operator</b> <small>(23 21 13 23-2022)</small>   |                        |                      |
|       |        |      | Note: Victaulic No. 377  |                        |                      |
|       |        |      | 23 21 13 23-2067 EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....   | 743.25                 | 30.03                |
|       |        |      | 23 21 13 23-2068 EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....   | 827.54                 | 39.48                |
|       |        |      | 23 21 13 23-2069 EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....   | 1,474.88               | 64.85                |
| 23 21 | 13 23- | 2070 | <b>Grooved Plug Valve With Gear Operator</b> <small>(23 21 13 23-2022)</small>   |                        |                      |
|       |        |      | Note: Victaulic No. 377  |                        |                      |
|       |        |      | 23 21 13 23-2071 EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....  | 1,306.46               | 30.03                |
|       |        |      | 23 21 13 23-2072 EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....  | 1,390.80               | 39.48                |
|       |        |      | 23 21 13 23-2073 EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....  | 2,038.14               | 64.85                |
|       |        |      | 23 21 13 23-2074 EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....  | 2,727.88               | 90.23                |
|       |        |      | 23 21 13 23-2075 EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....   | 4,271.91               | 122.23               |
|       |        |      | 23 21 13 23-2076 EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....   | 6,167.24               | 141.12               |
| 23 21 | 13 23- | 2077 | <b>Prepare Pipe For Groove</b> <small>(23 21 13 23-1484)</small>   |                        |                      |
| 23 21 | 13 23- | 2078 | <b>Cut Grooved Pipe</b> <small>(23 21 13 23-2077)</small>  |                        |                      |
|       |        |      | Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe. |                        |                      |
|       |        |      | 23 21 13 23-2079 EA Cut 3/4" Groove Pipe.....  | 14.77                  |                      |
|       |        |      | 23 21 13 23-2080 EA Cut 1" Groove Pipe.....  | 16.04                  |                      |
|       |        |      | 23 21 13 23-2081 EA Cut 1-1/4" Groove Pipe.....  | 18.10                  |                      |
|       |        |      | 23 21 13 23-2082 EA Cut 1-1/2" Groove Pipe.....  | 19.69                  |                      |
|       |        |      | 23 21 13 23-2083 EA Cut 2" Groove Pipe.....  | 21.59                  |                      |
|       |        |      | 23 21 13 23-2084 EA Cut 2-1/2" Groove Pipe.....  | 23.38                  |                      |
|       |        |      | 23 21 13 23-2085 EA Cut 3" Groove Pipe.....  | 25.51                  |                      |
|       |        |      | 23 21 13 23-2086 EA Cut 3-1/2" Groove Pipe.....  | 27.05                  |                      |
|       |        |      | 23 21 13 23-2087 EA Cut 4" Groove Pipe.....  | 28.78                  |                      |
|       |        |      | 23 21 13 23-2088 EA Cut 5" Groove Pipe.....  | 31.18                  |                      |
|       |        |      | 23 21 13 23-2089 EA Cut 6" Groove Pipe.....  | 32.07                  |                      |
|       |        |      | 23 21 13 23-2090 EA Cut 8" Groove Pipe.....  | 41.57                  |                      |
|       |        |      | 23 21 13 23-2091 EA Cut 10" Groove Pipe.....   | 59.08                  |                      |
|       |        |      | 23 21 13 23-2092 EA Cut 12" Groove Pipe.....   | 74.83                  |                      |
|       |        |      | 23 21 13 23-2093 EA Cut 14" Groove Pipe.....   | 112.24                 |                      |
|       |        |      | 23 21 13 23-2094 EA Cut 16" Groove Pipe.....   | 118.16                 |                      |
|       |        |      | 23 21 13 23-2095 EA Cut 18" Groove Pipe.....   | 124.72                 |                      |
|       |        |      | 23 21 13 23-2096 EA Cut 20" Groove Pipe.....   | 132.05                 |                      |
|       |        |      | 23 21 13 23-2097 EA Cut 24" Groove Pipe.....   | 149.66                 |                      |
| 23 21 | 13 23- | 2098 | <b>Roll Grooved Pipe</b> <small>(23 21 13 23-2077)</small>   |                        |                      |
|       |        |      | Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe. |                        |                      |
|       |        |      | 23 21 13 23-2099 EA Roll 3/4" Groove.....  | 8.44                   |                      |
|       |        |      | 23 21 13 23-2100 EA Roll 1" Groove.....  | 9.84                   |                      |
|       |        |      | 23 21 13 23-2101 EA Roll 1-1/4" Groove.....  | 11.22                  |                      |
|       |        |      | 23 21 13 23-2102 EA Roll 1-1/2" Groove.....  | 12.61                  |                      |
|       |        |      | 23 21 13 23-2103 EA Roll 2" Groove.....  | 19.36                  |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-2104 EA Roll 2-1/2" Groove .....   | 20.41                     |                         |
| 23 21 13 23-2105 EA Roll 3" Groove.....  | 22.44                     |                         |
| 23 21 13 23-2106 EA Roll 3-1/2" Groove .....   | 23.88                     |                         |
| 23 21 13 23-2107 EA Roll 4" Groove.....  | 26.10                     |                         |
| 23 21 13 23-2108 EA Roll 5" Groove.....  | 26.73                     |                         |
| 23 21 13 23-2109 EA Roll 6" Groove.....  | 28.07                     |                         |
| 23 21 13 23-2110 EA Roll 8" Groove.....  | 34.02                     |                         |
| 23 21 13 23-2111 EA Roll 10" Groove.....   | 38.70                     |                         |
| 23 21 13 23-2112 EA Roll 12" Groove.....   | 48.80                     |                         |
| 23 21 13 23-2113 EA Roll 14" Groove.....   | 74.83                     |                         |
| 23 21 13 23-2114 EA Roll 16" Groove.....   | 80.17                     |                         |
| 23 21 13 23-2115 EA Roll 18" Groove.....   | 83.14                     |                         |
| 23 21 13 23-2116 EA Roll 20" Groove.....   | 89.80                     |                         |
| 23 21 13 23-2117 EA Roll 24" Groove.....   | 97.60                     |                         |
| <b>23 21 13 23-2118 Standard Gaskets</b> (23 21 13 23-2077)  |                           |                         |
| Note: For use on replacement of existing gaskets.  |                           |                         |
| 23 21 13 23-2119 EA 3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....   | 21.00                     |                         |
| 23 21 13 23-2120 EA 1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 22.18                     |                         |
| 23 21 13 23-2121 EA 1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" ..... | 23.39                     |                         |
| 23 21 13 23-2122 EA 1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" ..... | 25.73                     |                         |
| 23 21 13 23-2123 EA 2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 26.57                     |                         |
| 23 21 13 23-2124 EA 2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" ..... | 30.65                     |                         |
| 23 21 13 23-2125 EA 3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 33.74                     |                         |
| 23 21 13 23-2126 EA 3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" ..... | 40.91                     |                         |
| 23 21 13 23-2127 EA 4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 41.59                     |                         |
| 23 21 13 23-2128 EA 5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 50.71                     |                         |
| 23 21 13 23-2129 EA 6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 54.40                     |                         |
| 23 21 13 23-2130 EA 8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....     | 73.26                     |                         |
| 23 21 13 23-2131 EA 10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 90.93                     |                         |
| 23 21 13 23-2132 EA 12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 108.07                    |                         |
| 23 21 13 23-2133 EA 14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 151.68                    |                         |
| 23 21 13 23-2134 EA 16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 198.80                    |                         |
| 23 21 13 23-2135 EA 18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 233.21                    |                         |
| 23 21 13 23-2136 EA 20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 339.04                    |                         |
| 23 21 13 23-2137 EA 24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....    | 460.36                    |                         |
| <b>23 21 13 23-2138 Copper Grooved-Joint Pipe Fittings</b> (23 21 13 23)   |                           |                         |
| Note: Couplings are not included with fittings.  |                           |                         |
| <b>23 21 13 23-2139 Grooved Fittings</b> (23 21 13 23-2138)  |                           |                         |
| <b>23 21 13 23-2140 Grooved 90 Degree Elbows</b> (23 21 13 23-2139)  |                           |                         |
| 23 21 13 23-2141 EA 2" Copper 90 Degree Elbow, Grooved.....  | 125.86                    | 22.98                   |
| 23 21 13 23-2142 EA 2-1/2" Copper 90 Degree Elbow, Grooved .....   | 142.46                    | 28.06                   |
| 23 21 13 23-2143 EA 3" Copper 90 Degree Elbow, Grooved.....  | 188.98                    | 33.98                   |
| 23 21 13 23-2144 EA 4" Copper 90 Degree Elbow, Grooved.....  | 367.41                    | 44.83                   |
| 23 21 13 23-2145 EA 5" Copper 90 Degree Elbow, Grooved.....  | 899.14                    | 56.11                   |
| 23 21 13 23-2146 EA 6" Copper 90 Degree Elbow, Grooved.....  | 1,402.62                  | 73.45                   |
| 23 21 13 23-2147 EA 8" Copper 90 Degree Elbow, Grooved.....  | 2,532.28                  | 87.40                   |
| <b>23 21 13 23-2148 Grooved 45 Degree Elbows</b> (23 21 13 23-2139)  |                           |                         |
| 23 21 13 23-2149 EA 2" Copper 45 Degree Elbow, Grooved.....  | 125.86                    | 22.98                   |
| 23 21 13 23-2150 EA 2-1/2" Copper 45 Degree Elbow, Grooved .....   | 142.46                    | 28.06                   |
| 23 21 13 23-2151 EA 3" Copper 45 Degree Elbow, Grooved.....  | 188.98                    | 33.98                   |
| 23 21 13 23-2152 EA 4" Copper 45 Degree Elbow, Grooved.....  | 367.41                    | 44.83                   |
| 23 21 13 23-2153 EA 5" Copper 45 Degree Elbow, Grooved.....  | 899.14                    | 56.11                   |
| 23 21 13 23-2154 EA 6" Copper 45 Degree Elbow, Grooved.....  | 1,402.62                  | 73.45                   |
| 23 21 13 23-2155 EA 8" Copper 45 Degree Elbow, Grooved.....  | 2,532.28                  | 87.40                   |
| <b>23 21 13 23-2156 Grooved Tees</b> (23 21 13 23-2139)  |                           |                         |
| 23 21 13 23-2157 EA 2" Copper Tee, Grooved.....  | 198.55                    | 33.84                   |
| 23 21 13 23-2158 EA 2-1/2" Copper Tee, Grooved.....  | 221.94                    | 41.59                   |
| 23 21 13 23-2159 EA 3" Copper Tee, Grooved.....  | 308.61                    | 51.03                   |
| 23 21 13 23-2160 EA 4" Copper Tee, Grooved.....  | 584.89                    | 65.98                   |
| 23 21 13 23-2161 EA 5" Copper Tee, Grooved.....  | 2,165.38                  | 86.28                   |
| 23 21 13 23-2162 EA 6" Copper Tee, Grooved.....  | 1,781.41                  | 107.99                  |
| 23 21 13 23-2163 EA 8" Copper Tee, Grooved.....  | 3,057.58                  | 131.12                  |
| <b>23 21 13 23-2164 Grooved Reducing Tees</b> (23 21 13 23-2139)   |                           |                         |
| 23 21 13 23-2165 EA 2-1/2" Copper Tee, Reducing, Grooved.....  | 290.06                    | 41.59                   |
| 23 21 13 23-2166 EA 3" Copper Tee, Reducing, Grooved.....  | 453.25                    | 51.03                   |
| 23 21 13 23-2167 EA 4" Copper Tee, Reducing, Grooved.....  | 726.97                    | 66.12                   |
| 23 21 13 23-2168 EA 5" Copper Tee, Reducing, Grooved.....  | 1,988.41                  | 86.42                   |
| 23 21 13 23-2169 EA 6" Copper Tee, Reducing, Grooved.....  | 2,432.79                  | 107.99                  |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
| <b>23 21 13 23-2170</b> |       |     |     | <b>Grooved X Cup Reducing Tees</b> (23 21 13 23-2139)                               |                        |                      |
|                         |       |     | EA  | 2" Copper Tee, Reducing, Grooved X Cup.....   | 234.98                 | 33.84                |
|                         |       |     | EA  | 2-1/2" Copper Tee, Reducing, Grooved X Cup.....                                     | 290.80                 | 41.59                |
|                         |       |     | EA  | 3" Copper Tee, Reducing, Grooved X Cup.....   | 486.03                 | 51.03                |
|                         |       |     | EA  | 4" Copper Tee, Reducing, Grooved X Cup.....   | 726.97                 | 65.98                |
| <b>23 21 13 23-2175</b> |       |     |     | <b>Grooved Flanged Adapter Nipples</b> (23 21 13 23-2139)                           |                        |                      |
|                         |       |     | EA  | 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....      | 394.28                 | 24.96                |
|                         |       |     | EA  | 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....  | 419.11                 | 30.31                |
|                         |       |     | EA  | 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....      | 447.92                 | 36.23                |
|                         |       |     | EA  | 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....      | 509.25                 | 48.78                |
|                         |       |     | EA  | 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....      | 671.51                 | 59.07                |
|                         |       |     | EA  | 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....      | 761.75                 | 79.79                |
| <b>23 21 13 23-2182</b> |       |     |     | <b>Grooved Concentric Reducers</b> (23 21 13 23-2139)                               |                        |                      |
|                         |       |     | EA  | 2-1/2" x 2" Copper Concentric Reducer, Grooved.....                                 | 165.85                 | 25.66                |
|                         |       |     | EA  | 3" x 2" Copper Concentric Reducer, Grooved.....                                     | 171.49                 | 28.62                |
|                         |       |     | EA  | 3" x 2-1/2" Copper Concentric Reducer, Grooved.....                                 | 182.42                 | 33.98                |
|                         |       |     | EA  | 4" x 2" Copper Concentric Reducer, Grooved.....                                     | 302.28                 | 34.26                |
|                         |       |     | EA  | 4" x 2-1/2" Copper Concentric Reducer, Grooved.....                                 | 307.22                 | 36.65                |
|                         |       |     | EA  | 4" x 3" Copper Concentric Reducer, Grooved.....                                     | 312.86                 | 39.48                |
|                         |       |     | EA  | 5" x 3" Copper Concentric Reducer, Grooved.....                                     | 748.17                 | 45.11                |
|                         |       |     | EA  | 5" x 4" Copper Concentric Reducer, Grooved.....                                     | 759.45                 | 50.75                |
|                         |       |     | EA  | 6" x 3" Copper Concentric Reducer, Grooved.....                                     | 819.38                 | 53.58                |
|                         |       |     | EA  | 6" x 4" Copper Concentric Reducer, Grooved.....                                     | 830.65                 | 59.21                |
|                         |       |     | EA  | 6" x 5" Copper Concentric Reducer, Grooved.....                                     | 841.94                 | 64.85                |
|                         |       |     | EA  | 8" x 6" Copper Concentric Reducer, Grooved.....                                     | 1,410.67               | 80.36                |
| <b>23 21 13 23-2195</b> |       |     |     | <b>Grooved X Cup Concentric Reducers</b> (23 21 13 23-2139)                         |                        |                      |
|                         |       |     | EA  | 2" x 1" Copper Concentric Reducer, Grooved X Cup.....                               | 130.68                 | 18.05                |
|                         |       |     | EA  | 2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....                           | 132.09                 | 18.75                |
|                         |       |     | EA  | 2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....                           | 136.40                 | 20.87                |
|                         |       |     | EA  | 2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup.....                           | 156.14                 | 20.16                |
|                         |       |     | EA  | 2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....                       | 157.53                 | 20.87                |
|                         |       |     | EA  | 2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....                       | 161.67                 | 22.98                |
|                         |       |     | EA  | 2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup.....                           | 167.32                 | 25.66                |
|                         |       |     | EA  | 3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....                           | 195.35                 | 25.66                |
|                         |       |     | EA  | 3" x 2" Copper Concentric Reducer, Grooved X Cup.....                               | 200.99                 | 28.62                |
|                         |       |     | EA  | 4" x 2" Copper Concentric Reducer, Grooved X Cup.....                               | 335.43                 | 34.12                |
| <b>23 21 13 23-2206</b> |       |     |     | <b>Grooved Standard Couplings</b> (23 21 13 23-2139)                                |                        |                      |
|                         |       |     | EA  | 2" Copper Standard Coupling, Grooved.....   | 50.55                  | 11.56                |
|                         |       |     | EA  | 2-1/2" Copper Standard Coupling, Grooved.....                                       | 59.60                  | 14.10                |
|                         |       |     | EA  | 3" Copper Standard Coupling, Grooved.....   | 68.21                  | 16.77                |
|                         |       |     | EA  | 4" Copper Standard Coupling, Grooved.....   | 98.01                  | 22.56                |
|                         |       |     | EA  | 5" Copper Standard Coupling, Grooved.....   | 146.48                 | 28.06                |
|                         |       |     | EA  | 6" Copper Standard Coupling, Grooved.....   | 192.78                 | 36.65                |
|                         |       |     | EA  | 8" Copper Standard Coupling, Grooved.....   | 273.20                 | 43.70                |
| <b>23 21 13 23-2214</b> |       |     |     | <b>Grooved Caps</b> (23 21 13 23-2139)  |                        |                      |
|                         |       |     | EA  | 2" Copper Cap, Grooved.....   | 78.04                  | 11.56                |
|                         |       |     | EA  | 2-1/2" Copper Cap, Grooved.....   | 109.68                 | 14.10                |
|                         |       |     | EA  | 3" Copper Cap, Grooved.....   | 134.78                 | 16.77                |
|                         |       |     | EA  | 4" Copper Cap, Grooved.....   | 196.82                 | 22.41                |
|                         |       |     | EA  | 5" Copper Cap, Grooved.....   | 325.48                 | 28.06                |
|                         |       |     | EA  | 6" Copper Cap, Grooved.....   | 383.45                 | 36.65                |
| <b>23 21 13 23-2221</b> |       |     |     | <b>Grooved Valves</b> (23 21 13 23-2138)  |                        |                      |
| <b>23 21 13 23-2222</b> |       |     |     | <b>Grooved Butterfly Valves, Standard Trim, Without Operator</b> (23 21 13 23-2221) |                        |                      |
|                         |       |     |     | Note: Copper body.  |                        |                      |
|                         |       |     | EA  | 2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body..... | 485.81                 | 15.08                |
|                         |       |     |     | For Chain Wheel, Add  | 43.45                  |                      |
|                         |       |     |     | For Valve Bracket Insulation, Add   | 38.20                  |                      |
|                         |       |     | EA  | 3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body..... | 555.09                 | 22.41                |
|                         |       |     |     | For Chain Wheel, Add  | 43.45                  |                      |
|                         |       |     |     | For Valve Bracket Insulation, Add   | 38.20                  |                      |
|                         |       |     | EA  | 4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body..... | 733.70                 | 29.46                |
|                         |       |     |     | For Chain Wheel, Add  | 43.45                  |                      |
|                         |       |     |     | For Valve Bracket Insulation, Add   | 38.20                  |                      |
|                         |       |     | EA  | 6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body..... | 983.35                 | 48.36                |
|                         |       |     |     | For Chain Wheel, Add  | 43.45                  |                      |
|                         |       |     |     | For Valve Bracket Insulation, Add   | 38.20                  |                      |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-2227 EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....   | 1,091.19                  | 67.96                   |
| For Chain Wheel, Add   | 43.45                     |                         |
| For Valve Bracket Insulation, Add  | 38.20                     |                         |
| <b>23 21 13 23-2228 Grooved Butterfly Valves, Standard Trim, With Operator (23 21 13 23-2221)</b>          |                           |                         |
| Note: Copper body.   |                           |                         |
| 23 21 13 23-2229 EA 2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....      | 591.87                    | 15.08                   |
| For Chain Wheel, Add   | 43.45                     |                         |
| For Valve Bracket Insulation, Add  | 38.20                     |                         |
| 23 21 13 23-2230 EA 3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....      | 661.22                    | 22.41                   |
| For Chain Wheel, Add   | 43.45                     |                         |
| For Valve Bracket Insulation, Add  | 38.20                     |                         |
| 23 21 13 23-2231 EA 4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....      | 839.83                    | 29.46                   |
| For Chain Wheel, Add   | 43.45                     |                         |
| For Valve Bracket Insulation, Add  | 38.20                     |                         |
| 23 21 13 23-2232 EA 6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....      | 1,089.55                  | 48.36                   |
| For Chain Wheel, Add   | 43.45                     |                         |
| For Valve Bracket Insulation, Add  | 38.20                     |                         |
| 23 21 13 23-2233 EA 8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....      | 1,197.32                  | 67.96                   |
| For Chain Wheel, Add   | 43.45                     |                         |
| For Valve Bracket Insulation, Add  | 38.20                     |                         |
| <b>23 21 13 23-2234 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23)</b>                  |                           |                         |
| Note: Socket or back weld.   |                           |                         |
| <b>23 21 13 23-2235 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2234)</b> |                           |                         |
| Note: ASTM D1785 with D2466 fittings.  |                           |                         |
| <b>23 21 13 23-2236 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2235)</b>              |                           |                         |
| 23 21 13 23-2237 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                          | 6.93                      | 4.03                    |
| For Work In Restricted Working Space, Add  | 1.82                      |                         |
| 23 21 13 23-2238 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                          | 8.69                      | 5.04                    |
| For Work In Restricted Working Space, Add  | 2.27                      |                         |
| 23 21 13 23-2239 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                            | 9.68                      | 5.37                    |
| For Work In Restricted Working Space, Add  | 2.42                      |                         |
| 23 21 13 23-2240 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                        | 10.81                     | 5.78                    |
| For Work In Restricted Working Space, Add  | 2.60                      |                         |
| 23 21 13 23-2241 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                        | 11.25                     | 5.88                    |
| For Work In Restricted Working Space, Add  | 2.64                      |                         |
| 23 21 13 23-2242 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                            | 13.88                     | 7.04                    |
| For Work In Restricted Working Space, Add  | 3.17                      |                         |
| 23 21 13 23-2243 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                        | 17.79                     | 8.36                    |
| For Work In Restricted Working Space, Add  | 3.76                      |                         |
| 23 21 13 23-2244 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                            | 21.98                     | 10.11                   |
| For Work In Restricted Working Space, Add  | 4.55                      |                         |
| 23 21 13 23-2245 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                            | 32.56                     | 15.15                   |
| For Work In Restricted Working Space, Add  | 6.82                      |                         |
| 23 21 13 23-2246 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                            | 47.46                     | 20.21                   |
| For Work In Restricted Working Space, Add  | 9.10                      |                         |
| 23 21 13 23-2247 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                            | 62.18                     | 24.09                   |
| For Work In Restricted Working Space, Add  | 10.85                     |                         |
| 23 21 13 23-2248 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....                           | 120.02                    | 26.91                   |
| For Work In Restricted Working Space, Add  | 12.10                     |                         |
| <b>23 21 13 23-2249 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2235)</b>           |                           |                         |
| 23 21 13 23-2250 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                       | 23.57                     | 15.22                   |
| For Work In Restricted Working Space, Add  | 6.82                      |                         |
| 23 21 13 23-2251 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                       | 31.49                     | 20.16                   |
| For Work In Restricted Working Space, Add  | 9.10                      |                         |
| 23 21 13 23-2252 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                         | 39.68                     | 25.10                   |
| For Work In Restricted Working Space, Add  | 11.28                     |                         |
| 23 21 13 23-2253 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                     | 57.04                     | 35.53                   |
| For Work In Restricted Working Space, Add  | 15.96                     |                         |
| 23 21 13 23-2254 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                     | 64.07                     | 40.04                   |
| For Work In Restricted Working Space, Add  | 18.00                     |                         |
| 23 21 13 23-2255 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                         | 82.61                     | 50.89                   |
| For Work In Restricted Working Space, Add  | 22.86                     |                         |
| 23 21 13 23-2256 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                     | 132.27                    | 75.29                   |
| For Work In Restricted Working Space, Add  | 33.84                     |                         |
| 23 21 13 23-2257 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                         | 171.79                    | 98.97                   |
| For Work In Restricted Working Space, Add  | 44.52                     |                         |
| 23 21 13 23-2258 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                         | 218.02                    | 117.58                  |
| For Work In Restricted Working Space, Add  | 52.87                     |                         |
| 23 21 13 23-2259 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                         | 301.47                    | 134.35                  |
| For Work In Restricted Working Space, Add  | 60.42                     |                         |
| 23 21 13 23-2260 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                         | 492.63                    | 156.77                  |
| For Work In Restricted Working Space, Add  | 70.49                     |                         |
| 23 21 13 23-2261 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....                        | 736.47                    | 233.75                  |
| For Work In Restricted Working Space, Add  | 105.11                    |                         |



|                         | MINOR<br>CSI UOM DESCRIPTION   |       | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|--|-------|---------------------------|-------------------------|
| <b>23 21 13 23-2262</b> | <b>Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> <small>(23 21 13 23-2235)</small> |       |                           |                         |
|                         | EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                  | ..... | 23.99                     | 15.22                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 6.82                      |                         |
|                         | EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                  | ..... | 32.32                     | 20.16                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 9.10                      |                         |
|                         | EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                    | ..... | 40.85                     | 25.10                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 11.28                     |                         |
|                         | EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                | ..... | 57.79                     | 35.53                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 15.96                     |                         |
|                         | EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                | ..... | 65.73                     | 40.04                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 18.00                     |                         |
|                         | EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                    | ..... | 83.69                     | 50.89                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 22.86                     |                         |
|                         | EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                | ..... | 132.27                    | 75.29                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 33.84                     |                         |
|                         | EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                    | ..... | 178.79                    | 98.97                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 44.52                     |                         |
|                         | EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                    | ..... | 230.76                    | 117.58                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 52.87                     |                         |
|                         | EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                    | ..... | 302.63                    | 134.35                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 60.42                     |                         |
|                         | EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                    | ..... | 478.56                    | 156.77                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 70.49                     |                         |
|                         | EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows                                   | ..... | 736.47                    | 233.75                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 105.11                    |                         |
| <b>23 21 13 23-2275</b> | <b>Schedule 40 Polyvinyl Chloride (PVC) Tees</b> <small>(23 21 13 23-2235)</small>             |       |                           |                         |
|                         | EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 38.60                     | 25.10                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 11.28                     |                         |
|                         | EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 46.56                     | 30.31                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 13.64                     |                         |
|                         | EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 62.07                     | 40.04                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 18.00                     |                         |
|                         | EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 79.53                     | 50.89                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 22.86                     |                         |
|                         | EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 95.03                     | 60.63                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 27.29                     |                         |
|                         | EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 118.70                    | 75.29                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 33.84                     |                         |
|                         | EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 168.05                    | 98.97                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 44.52                     |                         |
|                         | EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 201.95                    | 117.58                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 52.87                     |                         |
|                         | EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 281.59                    | 156.77                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 70.49                     |                         |
|                         | EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 460.36                    | 202.17                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 90.95                     |                         |
|                         | EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees  | ..... | 740.58                    | 250.80                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 112.78                    |                         |
|                         | EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees   | ..... | 1,988.69                  | 374.73                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 168.56                    |                         |
| <b>23 21 13 23-2288</b> | <b>Schedule 40 Polyvinyl Chloride (PVC) Crosses</b> <small>(23 21 13 23-2235)</small>          |       |                           |                         |
|                         | EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 48.56                     | 31.29                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 14.10                     |                         |
|                         | EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 58.55                     | 37.92                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 17.06                     |                         |
|                         | EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 78.26                     | 50.05                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 22.50                     |                         |
|                         | EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 100.48                    | 63.58                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 28.58                     |                         |
|                         | EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 120.08                    | 75.85                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 34.11                     |                         |
|                         | EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 150.25                    | 94.03                   |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 42.29                     |                         |
|                         | EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 216.30                    | 123.78                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 55.65                     |                         |
|                         | EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 260.60                    | 146.90                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 66.08                     |                         |
|                         | EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 366.80                    | 195.97                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 88.11                     |                         |
|                         | EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 625.21                    | 252.64                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 113.65                    |                         |
|                         | EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses   | ..... | 1,041.29                  | 313.26                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 140.90                    |                         |
|                         | EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses  | ..... | 2,939.37                  | 468.62                  |
|                         | <i>For Work In Restricted Working Space, Add</i>   |       | 210.80                    |                         |
| <b>23 21 13 23-2301</b> | <b>Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts</b> <small>(23 21 13 23-2235)</small> |       |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-2302 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                          | 24.34<br>7.08             | 15.51                   |
| 23 21 13 23-2303 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                            | 31.77<br>9.06             | 19.88                   |
| 23 21 13 23-2304 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                        | 42.42<br>12.10            | 26.65                   |
| 23 21 13 23-2305 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                        | 52.46<br>15.09            | 33.13                   |
| 23 21 13 23-2306 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                            | 64.20<br>18.16            | 39.90                   |
| 23 21 13 23-2307 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                        | 89.83<br>25.20            | 55.41                   |
| 23 21 13 23-2308 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                            | 124.82<br>34.82           | 76.55                   |
| 23 21 13 23-2309 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                            | 164.01<br>43.28           | 95.16                   |
| 23 21 13 23-2310 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                            | 216.87<br>50.35           | 110.81                  |
| 23 21 13 23-2311 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                            | 475.88<br>58.19           | 128.01                  |
| 23 21 13 23-2312 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                           | 573.12<br>78.04           | 171.71                  |
| <b>23 21 13 23-2313 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2235)</b>  |                           |                         |
| 23 21 13 23-2314 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                | 24.49<br>6.82             | 15.22                   |
| 23 21 13 23-2315 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                | 32.07<br>9.10             | 20.16                   |
| 23 21 13 23-2316 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                  | 39.76<br>11.28            | 25.10                   |
| 23 21 13 23-2317 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>              | 56.54<br>15.96            | 35.53                   |
| 23 21 13 23-2318 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>              | 63.82<br>18.00            | 40.04                   |
| 23 21 13 23-2319 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                  | 81.44<br>22.86            | 50.89                   |
| 23 21 13 23-2320 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>              | 120.37<br>33.84           | 75.29                   |
| 23 21 13 23-2321 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                  | 157.14<br>44.52           | 98.97                   |
| 23 21 13 23-2322 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                  | 195.96<br>52.87           | 117.58                  |
| <b>23 21 13 23-2323 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2235)</b>   |                           |                         |
| 23 21 13 23-2324 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>      | 25.07<br>6.82             | 15.22                   |
| 23 21 13 23-2325 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>      | 32.65<br>9.10             | 20.16                   |
| 23 21 13 23-2326 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>        | 40.93<br>11.28            | 25.10                   |
| 23 21 13 23-2327 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>    | 57.21<br>15.96            | 35.53                   |
| 23 21 13 23-2328 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>    | 65.32<br>18.00            | 40.04                   |
| 23 21 13 23-2329 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>        | 82.78<br>22.86            | 50.89                   |
| 23 21 13 23-2330 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>    | 121.86<br>33.84           | 75.29                   |
| 23 21 13 23-2331 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>        | 161.72<br>44.52           | 98.97                   |
| 23 21 13 23-2332 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>        | 193.30<br>52.87           | 117.58                  |
| <b>23 21 13 23-2333 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2235)</b>   |                           |                         |
| 23 21 13 23-2334 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>    | 23.57<br>6.82             | 15.22                   |
| 23 21 13 23-2335 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>    | 31.40<br>9.10             | 20.16                   |
| 23 21 13 23-2336 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>      | 38.85<br>11.28            | 25.10                   |
| 23 21 13 23-2337 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i> | 55.21<br>15.96            | 35.53                   |
| 23 21 13 23-2338 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i> | 62.32<br>18.00            | 40.04                   |
| 23 21 13 23-2339 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>      | 79.36<br>22.86            | 50.89                   |
| 23 21 13 23-2340 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i> | 126.52<br>33.84           | 75.29                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-2341 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i> | 166.88<br>44.52           | 98.97                   |
| 23 21 13 23-2342 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i> | 206.78<br>52.87           | 117.58                  |
| <b>23 21 13 23-2343 Schedule 40 Polyvinyl Chloride (PVC) P-Traps</b> (23 21 13 23-2235)   |                           |                         |
| 23 21 13 23-2344 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps.....<br><i>For Work In Restricted Working Space, Add</i>                              | 37.09<br>9.30             | 20.72                   |
| <b>23 21 13 23-2345 Schedule 40 Polyvinyl Chloride (PVC) Couplings</b> (23 21 13 23-2235)   |                           |                         |
| 23 21 13 23-2346 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 23.24<br>6.82             | 15.22                   |
| 23 21 13 23-2347 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                            | 30.99<br>9.10             | 20.16                   |
| 23 21 13 23-2348 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                              | 38.85<br>11.28            | 25.10                   |
| 23 21 13 23-2349 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                          | 54.88<br>15.96            | 35.53                   |
| 23 21 13 23-2350 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                          | 61.82<br>18.00            | 40.04                   |
| 23 21 13 23-2351 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                              | 79.03<br>22.86            | 50.89                   |
| 23 21 13 23-2352 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                          | 119.12<br>33.84           | 75.29                   |
| 23 21 13 23-2353 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                              | 158.31<br>44.52           | 98.97                   |
| 23 21 13 23-2354 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                              | 190.63<br>52.87           | 117.58                  |
| 23 21 13 23-2355 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                              | 247.02<br>60.42           | 134.35                  |
| 23 21 13 23-2356 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                              | 320.22<br>70.49           | 156.77                  |
| 23 21 13 23-2357 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i>                             | 643.13<br>75.56           | 168.05                  |
| <b>23 21 13 23-2358 Schedule 40 Polyvinyl Chloride (PVC) Unions</b> (23 21 13 23-2235)  |                           |                         |
| 23 21 13 23-2359 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                               | 46.03<br>11.28            | 25.10                   |
| 23 21 13 23-2360 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                               | 59.55<br>13.64            | 30.31                   |
| 23 21 13 23-2361 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 75.72<br>18.00            | 40.04                   |
| 23 21 13 23-2362 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                             | 114.50<br>22.86           | 50.89                   |
| 23 21 13 23-2363 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                             | 130.91<br>27.29           | 60.63                   |
| 23 21 13 23-2364 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 166.65<br>33.84           | 75.29                   |
| 23 21 13 23-2365 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                             | 246.14<br>44.52           | 98.97                   |
| 23 21 13 23-2366 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 279.79<br>52.87           | 117.58                  |
| 23 21 13 23-2367 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 440.34<br>70.49           | 156.77                  |
| 23 21 13 23-2368 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 578.35<br>90.92           | 202.17                  |
| 23 21 13 23-2369 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 829.94<br>112.72          | 250.66                  |
| 23 21 13 23-2370 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions.....<br><i>For Work In Restricted Working Space, Add</i>                                | 1,215.23<br>139.97        | 311.15                  |
| <b>23 21 13 23-2371 Schedule 40 Polyvinyl Chloride (PVC) Caps</b> (23 21 13 23-2235)  |                           |                         |
| 23 21 13 23-2372 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 11.03<br>3.11             | 6.85                    |
| 23 21 13 23-2373 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 14.48<br>4.10             | 9.02                    |
| 23 21 13 23-2374 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 18.24<br>5.07             | 11.14                   |
| 23 21 13 23-2375 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                               | 26.05<br>7.27             | 15.97                   |
| 23 21 13 23-2376 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                               | 29.00<br>8.10             | 17.77                   |
| 23 21 13 23-2377 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 36.70<br>10.29            | 22.70                   |
| 23 21 13 23-2378 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                               | 58.66<br>15.23            | 33.56                   |
| 23 21 13 23-2379 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 75.35<br>20.03            | 44.12                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-2380 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i>  | 98.95<br>23.79            | 52.30                   |
| 23 21 13 23-2381 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i>  | 137.67<br>27.19           | 59.77                   |
| 23 21 13 23-2382 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i>  | 263.08<br>31.72           | 69.79                   |
| 23 21 13 23-2383 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i>   | 739.83<br>47.30           | 104.05                  |
| <b>23 21 13 23-2384 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges</b> <small>(23 21 13 23-2385)</small>   |                           |                         |
| 23 21 13 23-2385 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges .....<br><i>For Work In Restricted Working Space, Add</i>                              | 54.33<br>11.28            | 25.10                   |
| 23 21 13 23-2386 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 152.75<br>13.64           | 30.31                   |
| 23 21 13 23-2387 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 88.54<br>18.00            | 40.04                   |
| 23 21 13 23-2388 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 105.59<br>22.86           | 50.89                   |
| 23 21 13 23-2389 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 121.00<br>27.29           | 60.63                   |
| 23 21 13 23-2390 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 152.75<br>33.84           | 75.29                   |
| 23 21 13 23-2391 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 210.09<br>44.52           | 98.97                   |
| 23 21 13 23-2392 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 244.33<br>52.87           | 117.58                  |
| 23 21 13 23-2393 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 321.22<br>70.49           | 156.77                  |
| 23 21 13 23-2394 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 438.66<br>90.92           | 202.17                  |
| 23 21 13 23-2395 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>  | 681.68<br>112.72          | 250.66                  |
| 23 21 13 23-2396 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,155.38<br>139.75        | 310.72                  |
| <b>23 21 13 23-2397 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings</b> <small>(23 21 13 23-2394)</small><br>Note: ASTM D1785 with D2467 fittings.              |                           |                         |
| <b>23 21 13 23-2398 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(23 21 13 23-2397)</small>  |                           |                         |
| 23 21 13 23-2399 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 7.18<br>1.82              | 4.09                    |
| 23 21 13 23-2400 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 9.00<br>2.27              | 5.08                    |
| 23 21 13 23-2401 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 11.20<br>2.72             | 6.06                    |
| 23 21 13 23-2402 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 13.48<br>3.18             | 7.05                    |
| 23 21 13 23-2403 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 15.54<br>3.63             | 8.03                    |
| 23 21 13 23-2404 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 20.16<br>4.55             | 10.15                   |
| 23 21 13 23-2405 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 24.12<br>5.00             | 11.14                   |
| 23 21 13 23-2406 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 28.07<br>5.46             | 12.13                   |
| 23 21 13 23-2407 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 37.25<br>6.82             | 15.22                   |
| 23 21 13 23-2408 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 57.91<br>9.10             | 20.16                   |
| 23 21 13 23-2409 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>   | 78.19<br>10.85            | 24.10                   |
| 23 21 13 23-2410 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>  | 168.43<br>11.68           | 25.94                   |
| <b>23 21 13 23-2411 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> <small>(23 21 13 23-2397)</small>   |                           |                         |
| 23 21 13 23-2412 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 25.74<br>6.82<br>3.41     | 15.22                   |
| 23 21 13 23-2413 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 34.23<br>9.10<br>4.55     | 20.16                   |
| 23 21 13 23-2414 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 43.93<br>11.28<br>5.64    | 25.10                   |
| 23 21 13 23-2415 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 61.62<br>15.96<br>7.98    | 35.53                   |
| 23 21 13 23-2416 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 68.98<br>18.00<br>9.00    | 40.04                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 21 13 23-2417 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 87.11<br>22.86<br>11.43   | 50.89                   |
| 23 21 13 23-2418 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 138.35<br>33.84<br>16.92  | 75.29                   |
| 23 21 13 23-2419 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 177.12<br>44.52<br>22.26  | 98.97                   |
| 23 21 13 23-2420 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 219.85<br>52.87<br>26.43  | 117.58                  |
| 23 21 13 23-2421 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 358.99<br>60.42<br>30.21  | 134.35                  |
| 23 21 13 23-2422 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 577.55<br>70.49<br>35.25  | 156.77                  |
| 23 21 13 23-2423 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>    | 736.47<br>105.11<br>52.55 | 233.75                  |
| <b>23 21 13 23-2424 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2397)</b>  |                           |                         |
| 23 21 13 23-2425 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 28.48<br>6.82<br>3.41     | 15.22                   |
| 23 21 13 23-2426 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 39.06<br>9.10<br>4.55     | 20.16                   |
| 23 21 13 23-2427 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 50.75<br>11.28<br>5.64    | 25.10                   |
| 23 21 13 23-2428 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 70.03<br>15.96<br>7.98    | 35.53                   |
| 23 21 13 23-2429 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 79.80<br>18.00<br>9.00    | 40.04                   |
| 23 21 13 23-2430 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 101.93<br>22.86<br>11.43  | 50.89                   |
| 23 21 13 23-2431 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 166.91<br>33.84<br>16.92  | 75.29                   |
| 23 21 13 23-2432 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 214.26<br>44.52<br>22.26  | 98.97                   |
| 23 21 13 23-2433 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 294.87<br>52.87<br>26.43  | 117.58                  |
| 23 21 13 23-2434 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 350.76<br>60.42<br>30.21  | 134.35                  |
| 23 21 13 23-2435 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 558.84<br>70.49<br>35.25  | 156.77                  |
| 23 21 13 23-2436 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>    | 715.43<br>105.11<br>52.55 | 233.75                  |
| <b>23 21 13 23-2437 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2397)</b>  |                           |                         |
| 23 21 13 23-2438 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>               | 44.27<br>10.71<br>5.35    | 23.82                   |
| 23 21 13 23-2439 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>               | 54.47<br>13.64<br>6.82    | 30.31                   |
| 23 21 13 23-2440 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>                 | 71.23<br>18.00<br>9.00    | 40.04                   |
| 23 21 13 23-2441 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>             | 107.26<br>22.86<br>11.43  | 50.89                   |
| 23 21 13 23-2442 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>             | 122.01<br>27.29<br>13.64  | 60.63                   |
| 23 21 13 23-2443 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>                 | 151.67<br>33.84<br>16.92  | 75.29                   |
| 23 21 13 23-2444 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>             | 190.69<br>44.52<br>22.26  | 98.97                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|---|------------------------------|-------------------------|
| 23 21 13 23-2445 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>        | 229.01<br>52.87<br>26.43     | 117.58                  |
| 23 21 13 23-2446 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>        | 296.16<br>70.49<br>35.25     | 156.77                  |
| 23 21 13 23-2447 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>        | 512.24<br>90.95<br>45.48     | 202.17                  |
| 23 21 13 23-2448 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>        | 860.83<br>112.78<br>56.39    | 250.80                  |
| 23 21 13 23-2449 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>       | 1,988.79<br>168.56<br>84.28  | 374.73                  |
| <b>23 21 13 23-2450 Schedule 80 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2397)</b>   |                              |                         |
| 23 21 13 23-2451 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 58.06<br>13.39<br>6.69       | 29.74                   |
| 23 21 13 23-2452 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 70.94<br>17.06<br>8.53       | 37.92                   |
| 23 21 13 23-2453 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 92.61<br>22.50<br>11.25      | 50.05                   |
| 23 21 13 23-2454 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 143.94<br>28.58<br>14.29     | 63.58                   |
| 23 21 13 23-2455 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 162.37<br>34.11<br>17.05     | 75.85                   |
| 23 21 13 23-2456 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 201.93<br>42.29<br>21.15     | 94.03                   |
| 23 21 13 23-2457 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 251.81<br>55.65<br>27.83     | 123.78                  |
| 23 21 13 23-2458 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 303.03<br>66.08<br>33.04     | 146.90                  |
| 23 21 13 23-2459 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 389.64<br>88.11<br>44.06     | 195.97                  |
| 23 21 13 23-2460 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 706.54<br>113.65<br>56.82    | 252.64                  |
| 23 21 13 23-2461 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 1,229.79<br>140.90<br>70.45  | 313.26                  |
| 23 21 13 23-2462 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>    | 2,939.52<br>210.80<br>105.40 | 468.62                  |
| <b>23 21 13 23-2463 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2397)</b>  |                              |                         |
| 23 21 13 23-2464 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                               | 32.07<br>9.10                | 20.16                   |
| 23 21 13 23-2465 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 42.68<br>11.28               | 25.10                   |
| 23 21 13 23-2466 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                             | 61.20<br>15.96               | 35.53                   |
| 23 21 13 23-2467 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                             | 70.89<br>18.00               | 40.04                   |
| 23 21 13 23-2468 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 91.77<br>22.86               | 50.89                   |
| 23 21 13 23-2469 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                             | 139.76<br>33.84              | 75.29                   |
| 23 21 13 23-2470 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 191.27<br>44.52              | 98.97                   |
| 23 21 13 23-2471 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 235.67<br>52.87              | 117.58                  |
| 23 21 13 23-2472 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 267.33<br>60.42              | 134.35                  |
| 23 21 13 23-2473 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 381.32<br>70.49              | 156.77                  |
| 23 21 13 23-2474 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                                | 585.97<br>81.89              | 182.01                  |
| <b>23 21 13 23-2475 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2397)</b>   |                              |                         |
| 23 21 13 23-2476 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....<br><i>For Work In Restricted Working Space, Add</i>                      | 23.32<br>6.82                | 15.22                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-2477 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                        | 33.57<br>9.10             | 20.16                   |
| 23 21 13 23-2478 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                          | 42.68<br>11.28            | 25.10                   |
| 23 21 13 23-2479 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                      | 63.53<br>15.96            | 35.53                   |
| 23 21 13 23-2480 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                      | 72.98<br>18.00            | 40.04                   |
| 23 21 13 23-2481 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                          | 92.10<br>22.86            | 50.89                   |
| 23 21 13 23-2482 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                      | 146.42<br>33.84           | 75.29                   |
| 23 21 13 23-2483 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                          | 210.67<br>44.52           | 98.97                   |
| 23 21 13 23-2484 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....<br><i>For Work In Restricted Working Space, Add</i>                          | 271.97<br>52.87           | 117.58                  |
| <br>   |                           |                         |
| <b>23 21 13 23-2485 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters</b> <small>(23 21 13 23-2397)</small>                                      |                           |                         |
| 23 21 13 23-2486 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>              | 29.82<br>6.82             | 15.22                   |
| 23 21 13 23-2487 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>              | 38.14<br>9.10             | 20.16                   |
| 23 21 13 23-2488 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>                | 51.25<br>11.28            | 25.10                   |
| 23 21 13 23-2489 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>            | 69.19<br>15.96            | 35.53                   |
| 23 21 13 23-2490 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>            | 82.97<br>18.00            | 40.04                   |
| 23 21 13 23-2491 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>                | 106.17<br>22.86           | 50.89                   |
| 23 21 13 23-2492 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>            | 146.92<br>33.84           | 75.29                   |
| 23 21 13 23-2493 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>                | 186.28<br>44.52           | 98.97                   |
| 23 21 13 23-2494 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....<br><i>For Work In Restricted Working Space, Add</i>                | 243.58<br>52.87           | 117.58                  |
| <br>   |                           |                         |
| <b>23 21 13 23-2495 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters</b> <small>(23 21 13 23-2397)</small>                                    |                           |                         |
| 23 21 13 23-2496 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>           | 27.90<br>6.82             | 15.22                   |
| 23 21 13 23-2497 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>           | 37.98<br>9.10             | 20.16                   |
| 23 21 13 23-2498 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>              | 48.92<br>11.28            | 25.10                   |
| 23 21 13 23-2499 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>         | 71.61<br>15.96            | 35.53                   |
| 23 21 13 23-2500 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>         | 82.55<br>18.00            | 40.04                   |
| 23 21 13 23-2501 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>              | 115.49<br>22.86           | 50.89                   |
| 23 21 13 23-2502 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters .....<br><i>For Work In Restricted Working Space, Add</i>         | 174.89<br>33.84           | 75.29                   |
| 23 21 13 23-2503 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>              | 218.33<br>44.52           | 98.97                   |
| 23 21 13 23-2504 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....<br><i>For Work In Restricted Working Space, Add</i>              | 296.44<br>52.87           | 117.58                  |
| <br>   |                           |                         |
| <b>23 21 13 23-2505 Schedule 80 Polyvinyl Chloride (PVC) Couplings</b> <small>(23 21 13 23-2397)</small>   |                           |                         |
| 23 21 13 23-2506 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>    | 28.23<br>6.82<br>3.41     | 15.22                   |
| 23 21 13 23-2507 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>    | 37.73<br>9.10<br>4.55     | 20.16                   |
| 23 21 13 23-2508 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 45.26<br>11.28<br>5.64    | 25.10                   |
| 23 21 13 23-2509 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 64.95<br>15.96<br>7.98    | 35.53                   |
| 23 21 13 23-2510 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 72.64<br>18.00<br>9.00    | 40.04                   |
| 23 21 13 23-2511 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Couplings .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 89.69<br>22.86<br>11.43   | 50.89                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-2512 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings .....                                | 146.17                    | 75.29                   |
| For Work In Restricted Working Space, Add  | 33.84                     |                         |
| For Threaded Fittings, Add   | 16.92                     |                         |
| 23 21 13 23-2513 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....                                     | 186.78                    | 98.97                   |
| For Work In Restricted Working Space, Add  | 44.52                     |                         |
| For Threaded Fittings, Add   | 22.26                     |                         |
| 23 21 13 23-2514 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....                                     | 224.35                    | 117.58                  |
| For Work In Restricted Working Space, Add  | 52.87                     |                         |
| For Threaded Fittings, Add   | 26.43                     |                         |
| 23 21 13 23-2515 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....                                     | 304.88                    | 134.35                  |
| For Work In Restricted Working Space, Add  | 60.42                     |                         |
| For Threaded Fittings, Add   | 30.21                     |                         |
| 23 21 13 23-2516 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....                                     | 375.83                    | 156.77                  |
| For Work In Restricted Working Space, Add  | 70.49                     |                         |
| For Threaded Fittings, Add   | 35.25                     |                         |
| 23 21 13 23-2517 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....                                    | 668.10                    | 168.05                  |
| For Work In Restricted Working Space, Add  | 75.56                     |                         |
| For Threaded Fittings, Add   | 37.78                     |                         |
| <b>23 21 13 23-2518 Schedule 80 Polyvinyl Chloride (PVC) Unions</b> <small>(23 21 13 23-2397)</small>          |                           |                         |
| 23 21 13 23-2519 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                     | 49.92                     | 25.10                   |
| For Work In Restricted Working Space, Add  | 11.28                     |                         |
| 23 21 13 23-2520 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                     | 59.72                     | 30.31                   |
| For Work In Restricted Working Space, Add  | 13.64                     |                         |
| 23 21 13 23-2521 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                       | 76.22                     | 40.04                   |
| For Work In Restricted Working Space, Add  | 18.00                     |                         |
| 23 21 13 23-2522 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                   | 116.83                    | 50.89                   |
| For Work In Restricted Working Space, Add  | 22.86                     |                         |
| 23 21 13 23-2523 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                   | 143.23                    | 60.63                   |
| For Work In Restricted Working Space, Add  | 27.29                     |                         |
| 23 21 13 23-2524 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                       | 183.64                    | 75.29                   |
| For Work In Restricted Working Space, Add  | 33.84                     |                         |
| 23 21 13 23-2525 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                   | 280.31                    | 98.97                   |
| For Work In Restricted Working Space, Add  | 44.52                     |                         |
| 23 21 13 23-2526 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                       | 346.26                    | 117.58                  |
| For Work In Restricted Working Space, Add  | 52.87                     |                         |
| 23 21 13 23-2527 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                       | 440.84                    | 156.77                  |
| For Work In Restricted Working Space, Add  | 70.49                     |                         |
| 23 21 13 23-2528 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                       | 578.35                    | 202.17                  |
| For Work In Restricted Working Space, Add  | 90.92                     |                         |
| 23 21 13 23-2529 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                       | 829.94                    | 250.66                  |
| For Work In Restricted Working Space, Add  | 112.72                    |                         |
| 23 21 13 23-2530 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Unions .....                                      | 1,214.48                  | 310.72                  |
| For Work In Restricted Working Space, Add  | 139.75                    |                         |
| <b>23 21 13 23-2531 Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions</b> <small>(23 21 13 23-2397)</small> |                           |                         |
| 23 21 13 23-2532 EA 1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                           | 54.41                     | 31.32                   |
| 23 21 13 23-2533 EA 3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                           | 64.65                     | 36.23                   |
| 23 21 13 23-2534 EA 1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                             | 78.03                     | 42.72                   |
| 23 21 13 23-2535 EA 1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                         | 102.72                    | 50.89                   |
| 23 21 13 23-2536 EA 1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                         | 123.64                    | 60.63                   |
| 23 21 13 23-2537 EA 2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                             | 162.70                    | 75.29                   |
| 23 21 13 23-2538 EA 3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                             | 345.26                    | 145.92                  |
| 23 21 13 23-2539 EA 4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....                             | 375.29                    | 161.85                  |
| <b>23 21 13 23-2540 Schedule 80 Polyvinyl Chloride (PVC) Caps</b> <small>(23 21 13 23-2397)</small>            |                           |                         |
| 23 21 13 23-2541 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....                                       | 17.98                     | 6.77                    |
| For Work In Restricted Working Space, Add  | 3.07                      |                         |
| For Threaded Fittings, Add   | 1.54                      |                         |
| 23 21 13 23-2542 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps .....                                       | 21.81                     | 9.02                    |
| For Work In Restricted Working Space, Add  | 4.10                      |                         |
| For Threaded Fittings, Add   | 2.05                      |                         |
| 23 21 13 23-2543 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Caps .....   | 31.39                     | 11.14                   |
| For Work In Restricted Working Space, Add  | 5.07                      |                         |
| For Threaded Fittings, Add   | 2.54                      |                         |
| 23 21 13 23-2544 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps .....                                     | 41.42                     | 15.79                   |
| For Work In Restricted Working Space, Add  | 7.18                      |                         |
| For Threaded Fittings, Add   | 3.59                      |                         |
| 23 21 13 23-2545 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....                                     | 44.48                     | 17.77                   |
| For Work In Restricted Working Space, Add  | 8.10                      |                         |
| For Threaded Fittings, Add   | 4.05                      |                         |
| 23 21 13 23-2546 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....   | 60.51                     | 22.70                   |
| For Work In Restricted Working Space, Add  | 10.29                     |                         |
| For Threaded Fittings, Add   | 5.14                      |                         |
| 23 21 13 23-2547 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....                                     | 104.61                    | 33.56                   |
| For Work In Restricted Working Space, Add  | 15.23                     |                         |
| For Threaded Fittings, Add   | 7.61                      |                         |
| 23 21 13 23-2548 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps .....   | 132.63                    | 44.12                   |
| For Work In Restricted Working Space, Add  | 20.03                     |                         |
| For Threaded Fittings, Add   | 10.02                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 23 21 13 23-2549 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>               | 185.20<br>23.79<br>11.90    | 52.30                   |
| 23 21 13 23-2550 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>               | 353.70<br>27.19<br>13.59    | 59.77                   |
| 23 21 13 23-2551 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>               | 467.13<br>31.72<br>15.86    | 69.79                   |
| 23 21 13 23-2552 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>              | 823.08<br>47.30<br>23.65    | 104.05                  |
| <b>23 21 13 23-2553 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges</b> <small>(23 21 13 23-2397)</small>   |                             |                         |
| 23 21 13 23-2554 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 61.49<br>11.28<br>5.64      | 25.10                   |
| 23 21 13 23-2555 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>   | 71.12<br>13.64<br>6.82      | 30.31                   |
| 23 21 13 23-2556 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 88.55<br>18.00<br>9.00      | 40.04                   |
| 23 21 13 23-2557 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 105.59<br>22.86<br>11.43    | 50.89                   |
| 23 21 13 23-2558 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 121.00<br>27.29<br>13.64    | 60.63                   |
| 23 21 13 23-2559 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 152.75<br>33.84<br>16.92    | 75.29                   |
| 23 21 13 23-2560 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i> | 210.09<br>44.52<br>22.26    | 98.97                   |
| 23 21 13 23-2561 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 244.33<br>52.87<br>26.43    | 117.58                  |
| 23 21 13 23-2562 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 321.22<br>70.49<br>35.25    | 156.77                  |
| 23 21 13 23-2563 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 438.67<br>90.92<br>45.46    | 202.17                  |
| 23 21 13 23-2564 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>     | 681.68<br>112.72<br>56.36   | 250.66                  |
| 23 21 13 23-2565 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Threaded Fittings, Add</i>    | 1,155.38<br>139.75<br>69.87 | 310.72                  |
| <b>23 21 13 23-2566 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(23 21 13 23-2234)</small><br>Note: In place pipe.                             |                             |                         |
| 23 21 13 23-2567 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                           | 7.66<br>2.30                |                         |
| 23 21 13 23-2568 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                           | 8.27<br>2.48                |                         |
| 23 21 13 23-2569 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                             | 9.30<br>2.79                |                         |
| 23 21 13 23-2570 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                         | 9.76<br>2.93                |                         |
| 23 21 13 23-2571 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                         | 10.33<br>3.10               |                         |
| 23 21 13 23-2572 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                             | 11.37<br>3.41               |                         |
| 23 21 13 23-2573 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                         | 12.25<br>3.68               |                         |
| 23 21 13 23-2574 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                             | 14.48<br>4.34               |                         |
| 23 21 13 23-2575 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                             | 19.52<br>5.86               |                         |
| 23 21 13 23-2576 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                             | 27.90<br>8.37               |                         |
| 23 21 13 23-2577 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                             | 37.21<br>11.16              |                         |
| 23 21 13 23-2578 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For Work In Restricted Working Space, Add</i>                            | 45.49<br>13.65              |                         |
| <b>23 21 13 23-2579 Polyethylene Pipe And Fittings</b> <small>(23 21 13 23)</small>   |                             |                         |
| <b>23 21 13 23-2580 Small Diameter Tubing</b> <small>(23 21 13 23-2579)</small>   |                             |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                         |  |        |       |
|-------------------------|--|--------|-------|
| <b>23 21 13 23-2581</b> | <b>Tubing</b> (23 21 13 23-2580)                             |        |       |
| 23 21 13 23-2582        | LF 1/4" Polyethylene Tubing.....                             | 4.53   |       |
|                         | <i>For Work In Restricted Working Space, Add</i>             | 1.28   |       |
| 23 21 13 23-2583        | LF 5/16" Polyethylene Tubing.....                            | 4.86   |       |
|                         | <i>For Work In Restricted Working Space, Add</i>             | 1.30   |       |
| 23 21 13 23-2584        | LF 3/8" Polyethylene Tubing.....                             | 5.10   |       |
|                         | <i>For Work In Restricted Working Space, Add</i>             | 1.33   |       |
| 23 21 13 23-2585        | LF 1/2" Polyethylene Tubing.....                             | 5.29   |       |
|                         | <i>For Work In Restricted Working Space, Add</i>             | 1.44   |       |
| <b>23 21 13 23-2586</b> | <b>Chrome Plated Pipe</b> (23 21 13 23)                      |        |       |
| <b>23 21 13 23-2587</b> | <b>Chrome Plated Nipples</b> (23 21 13 23-2586)              |        |       |
| <b>23 21 13 23-2588</b> | <b>Close</b> (23 21 13 23-2587)                              |        |       |
| 23 21 13 23-2589        | EA 1/4" Diameter Chrome Plated Nipple, Close.....            | 25.29  | 12.25 |
| 23 21 13 23-2590        | EA 3/8" Diameter Chrome Plated Nipple, Close.....            | 24.84  | 13.32 |
| 23 21 13 23-2591        | EA 1/2" Diameter Chrome Plated Nipple, Close.....            | 30.38  | 15.31 |
| 23 21 13 23-2592        | EA 3/4" Diameter Chrome Plated Nipple, Close.....            | 39.57  | 19.45 |
| 23 21 13 23-2593        | EA 1" Diameter Chrome Plated Nipple, Close.....              | 52.80  | 25.57 |
| 23 21 13 23-2594        | EA 1-1/4" Diameter Chrome Plated Nipple, Close.....          | 74.61  | 35.67 |
| 23 21 13 23-2595        | EA 1-1/2" Diameter Chrome Plated Nipple, Close.....          | 90.31  | 41.81 |
| 23 21 13 23-2596        | EA 2" Diameter Chrome Plated Nipple, Close.....              | 115.60 | 52.06 |
| <b>23 21 13 23-2597</b> | <b>1-1/2" Nipples</b> (23 21 13 23-2587)                     |        |       |
| 23 21 13 23-2598        | EA 1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....   | 26.87  | 12.71 |
| 23 21 13 23-2599        | EA 3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....   | 26.13  | 13.78 |
| 23 21 13 23-2600        | EA 1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....   | 31.19  | 15.77 |
| 23 21 13 23-2601        | EA 3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....   | 40.90  | 19.90 |
| <b>23 21 13 23-2602</b> | <b>2" Nipples</b> (23 21 13 23-2587)                         |        |       |
| 23 21 13 23-2603        | EA 1/4" Diameter, 2" Length, Chrome Plated Nipple.....       | 27.96  | 13.32 |
| 23 21 13 23-2604        | EA 3/8" Diameter, 2" Length, Chrome Plated Nipple.....       | 27.05  | 14.24 |
| 23 21 13 23-2605        | EA 1/2" Diameter, 2" Length, Chrome Plated Nipple.....       | 33.30  | 16.38 |
| 23 21 13 23-2606        | EA 3/4" Diameter, 2" Length, Chrome Plated Nipple.....       | 42.73  | 20.37 |
| 23 21 13 23-2607        | EA 1" Diameter, 2" Length, Chrome Plated Nipple.....         | 55.65  | 26.49 |
| 23 21 13 23-2608        | EA 1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....     | 79.00  | 36.75 |
| 23 21 13 23-2609        | EA 1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....     | 95.33  | 42.87 |
| <b>23 21 13 23-2610</b> | <b>2-1/2" Nipples</b> (23 21 13 23-2587)                     |        |       |
| 23 21 13 23-2611        | EA 1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....   | 29.45  | 13.78 |
| 23 21 13 23-2612        | EA 3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....   | 28.03  | 14.86 |
| 23 21 13 23-2613        | EA 1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....   | 34.65  | 16.85 |
| 23 21 13 23-2614        | EA 3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....   | 43.76  | 20.98 |
| 23 21 13 23-2615        | EA 1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....     | 57.13  | 27.10 |
| 23 21 13 23-2616        | EA 1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple..... | 83.05  | 37.21 |
| 23 21 13 23-2617        | EA 1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple..... | 100.65 | 43.33 |
| 23 21 13 23-2618        | EA 2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....     | 127.37 | 53.60 |
| <b>23 21 13 23-2619</b> | <b>3" Nipples</b> (23 21 13 23-2587)                         |        |       |
| 23 21 13 23-2620        | EA 1/4" Diameter, 3" Length, Chrome Plated Nipple.....       | 30.66  | 14.24 |
| 23 21 13 23-2621        | EA 3/8" Diameter, 3" Length, Chrome Plated Nipple.....       | 29.55  | 15.31 |
| 23 21 13 23-2622        | EA 1/2" Diameter, 3" Length, Chrome Plated Nipple.....       | 34.09  | 16.38 |
| 23 21 13 23-2623        | EA 3/4" Diameter, 3" Length, Chrome Plated Nipple.....       | 46.76  | 21.44 |
| 23 21 13 23-2624        | EA 1" Diameter, 3" Length, Chrome Plated Nipple.....         | 63.04  | 27.56 |
| 23 21 13 23-2625        | EA 1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....     | 87.44  | 37.83 |
| 23 21 13 23-2626        | EA 1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....     | 112.91 | 43.95 |
| 23 21 13 23-2627        | EA 2" Diameter, 3" Length, Chrome Plated Nipple.....         | 137.01 | 54.21 |
| <b>23 21 13 23-2628</b> | <b>3-1/2" Nipples</b> (23 21 13 23-2587)                     |        |       |
| 23 21 13 23-2629        | EA 1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....   | 32.00  | 14.86 |
| 23 21 13 23-2630        | EA 3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....   | 31.97  | 15.77 |
| 23 21 13 23-2631        | EA 1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....   | 37.50  | 17.91 |
| 23 21 13 23-2632        | EA 3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....   | 51.11  | 21.89 |
| 23 21 13 23-2633        | EA 1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....     | 65.45  | 28.03 |
| 23 21 13 23-2634        | EA 1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple..... | 95.85  | 38.28 |
| 23 21 13 23-2635        | EA 1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple..... | 116.71 | 44.41 |
| 23 21 13 23-2636        | EA 2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....     | 144.73 | 54.66 |
| <b>23 21 13 23-2637</b> | <b>4" Nipples</b> (23 21 13 23-2587)                         |        |       |
| 23 21 13 23-2638        | EA 1/4" Diameter, 4" Length, Chrome Plated Nipple.....       | 33.33  | 15.31 |
| 23 21 13 23-2639        | EA 3/8" Diameter, 4" Length, Chrome Plated Nipple.....       | 32.83  | 16.38 |
| 23 21 13 23-2640        | EA 1/2" Diameter, 4" Length, Chrome Plated Nipple.....       | 37.57  | 17.30 |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 3/4" Diameter, 4" Length, Chrome Plated Nipple, 4-1/2" Nipples, 5" Nipples, 5-1/2" Nipples, 6" Nipples, 8" Nipples, 10" Nipples, and 12" Nipples.

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



| MINOR            |     | DESCRIPTION   |        | TOTAL DIRECT | DEMOLITION |
|------------------|-----|---|--------|--------------|------------|
| CSI              | UOM |   |        | UNIT COST    | UNIT COST  |
| 23 21 13 23-2705 |     | 18" Nipples <small>(23 21 13 23-2587)</small>                           |        |              |            |
| 23 21 13 23-2706 | EA  | 3/8" Diameter, 18" Length, Chrome Plated Nipple.....                    | 71.58  | 22.51        |            |
| 23 21 13 23-2707 |     | 24" Nipples <small>(23 21 13 23-2587)</small>                           |        |              |            |
| 23 21 13 23-2708 | EA  | 3/8" Diameter, 24" Length, Chrome Plated Nipple.....                    | 85.11  | 23.43        |            |
| 23 21 13 23-2709 |     | 30" Nipples <small>(23 21 13 23-2587)</small>                           |        |              |            |
| 23 21 13 23-2710 | EA  | 3/8" Diameter, 30" Length, Chrome Plated Nipple.....                    | 93.87  | 24.50        |            |
| 23 21 13 23-2711 |     | 36" Nipples <small>(23 21 13 23-2587)</small>                           |        |              |            |
| 23 21 13 23-2712 | EA  | 3/8" Diameter, 36" Length, Chrome Plated Nipple.....                    | 102.64 | 25.57        |            |
| 23 21 13 23-2713 |     | Chrome Plated Fittings <small>(23 21 13 23-2586)</small>                |        |              |            |
| 23 21 13 23-2714 |     | Chrome Plated 90 Degree Elbows <small>(23 21 13 23-2713)</small>        |        |              |            |
| 23 21 13 23-2715 | EA  | 1/4" 90 Degree Elbow, Chrome Plated.....                                | 31.47  | 14.24        |            |
| 23 21 13 23-2716 | EA  | 3/8" 90 Degree Elbow, Chrome Plated.....                                | 32.36  | 15.31        |            |
| 23 21 13 23-2717 | EA  | 1/2" 90 Degree Elbow, Chrome Plated.....                                | 36.10  | 16.38        |            |
| 23 21 13 23-2718 | EA  | 3/4" 90 Degree Elbow, Chrome Plated.....                                | 46.28  | 21.44        |            |
| 23 21 13 23-2719 | EA  | 1" 90 Degree Elbow, Chrome Plated.....                                  | 62.30  | 27.56        |            |
| 23 21 13 23-2720 | EA  | 1-1/4" 90 Degree Elbow, Chrome Plated.....                              | 94.23  | 37.83        |            |
| 23 21 13 23-2721 | EA  | 1-1/2" 90 Degree Elbow, Chrome Plated.....                              | 112.69 | 43.95        |            |
| 23 21 13 23-2722 | EA  | 2" 90 Degree Elbow, Chrome Plated.....                                  | 152.21 | 54.21        |            |
| 23 21 13 23-2723 |     | Chrome Plated Street 90 Degree Elbows <small>(23 21 13 23-2713)</small> |        |              |            |
| 23 21 13 23-2724 | EA  | 1/4" Street 90 Degree Elbow, Chrome Plated.....                         | 35.68  | 14.24        |            |
| 23 21 13 23-2725 | EA  | 3/8" Street 90 Degree Elbow, Chrome Plated.....                         | 36.97  | 15.31        |            |
| 23 21 13 23-2726 | EA  | 1/2" Street 90 Degree Elbow, Chrome Plated.....                         | 39.31  | 16.38        |            |
| 23 21 13 23-2727 | EA  | 3/4" Street 90 Degree Elbow, Chrome Plated.....                         | 51.01  | 21.44        |            |
| 23 21 13 23-2728 | EA  | 1" Street 90 Degree Elbow, Chrome Plated.....                           | 71.03  | 27.56        |            |
| 23 21 13 23-2729 | EA  | 1-1/4" Street 90 Degree Elbow, Chrome Plated.....                       | 103.18 | 37.83        |            |
| 23 21 13 23-2730 | EA  | 1-1/2" Street 90 Degree Elbow, Chrome Plated.....                       | 125.22 | 43.95        |            |
| 23 21 13 23-2731 | EA  | 2" Street 90 Degree Elbow, Chrome Plated.....                           | 181.68 | 54.21        |            |
| 23 21 13 23-2732 |     | Chrome Plated 45 Degree Elbows <small>(23 21 13 23-2713)</small>        |        |              |            |
| 23 21 13 23-2733 | EA  | 1/4" 45 Degree Elbow, Chrome Plated.....                                | 32.40  | 14.24        |            |
| 23 21 13 23-2734 | EA  | 3/8" 45 Degree Elbow, Chrome Plated.....                                | 33.69  | 15.31        |            |
| 23 21 13 23-2735 | EA  | 1/2" 45 Degree Elbow, Chrome Plated.....                                | 37.05  | 16.38        |            |
| 23 21 13 23-2736 | EA  | 3/4" 45 Degree Elbow, Chrome Plated.....                                | 49.89  | 21.44        |            |
| 23 21 13 23-2737 | EA  | 1" 45 Degree Elbow, Chrome Plated.....                                  | 66.34  | 27.56        |            |
| 23 21 13 23-2738 | EA  | 1-1/4" 45 Degree Elbow, Chrome Plated.....                              | 99.09  | 37.83        |            |
| 23 21 13 23-2739 | EA  | 1-1/2" 45 Degree Elbow, Chrome Plated.....                              | 119.18 | 43.95        |            |
| 23 21 13 23-2740 | EA  | 2" 45 Degree Elbow, Chrome Plated.....                                  | 170.04 | 54.21        |            |
| 23 21 13 23-2741 |     | Chrome Plated Street 45 Degree Elbows <small>(23 21 13 23-2713)</small> |        |              |            |
| 23 21 13 23-2742 | EA  | 1/2" Street 45 Degree Elbow, Chrome Plated.....                         | 42.83  | 16.38        |            |
| 23 21 13 23-2743 |     | Chrome Plated Couplings <small>(23 21 13 23-2713)</small>               |        |              |            |
| 23 21 13 23-2744 | EA  | 1/4" Coupling, Chrome Plated.....                                       | 30.90  | 14.24        |            |
| 23 21 13 23-2745 | EA  | 3/8" Coupling, Chrome Plated.....                                       | 32.43  | 15.31        |            |
| 23 21 13 23-2746 | EA  | 1/2" Coupling, Chrome Plated.....                                       | 36.34  | 16.38        |            |
| 23 21 13 23-2747 | EA  | 3/4" Coupling, Chrome Plated.....                                       | 46.37  | 21.44        |            |
| 23 21 13 23-2748 | EA  | 1" Coupling, Chrome Plated.....   | 60.31  | 27.56        |            |
| 23 21 13 23-2749 | EA  | 1-1/4" Coupling, Chrome Plated.....                                     | 86.97  | 37.83        |            |
| 23 21 13 23-2750 | EA  | 1-1/2" Coupling, Chrome Plated.....                                     | 106.60 | 43.95        |            |
| 23 21 13 23-2751 | EA  | 2" Coupling, Chrome Plated.....   | 144.77 | 54.21        |            |
| 23 21 13 23-2752 |     | Chrome Plated Unions <small>(23 21 13 23-2713)</small>                  |        |              |            |
| 23 21 13 23-2753 | EA  | 1/4" Union, Chrome Plated.....  | 47.34  | 16.38        |            |
| 23 21 13 23-2754 | EA  | 3/8" Union, Chrome Plated.....  | 48.90  | 17.30        |            |
| 23 21 13 23-2755 | EA  | 1/2" Union, Chrome Plated.....  | 58.56  | 19.45        |            |
| 23 21 13 23-2756 | EA  | 3/4" Union, Chrome Plated.....  | 73.13  | 25.57        |            |
| 23 21 13 23-2757 | EA  | 1" Union, Chrome Plated.....  | 92.61  | 32.62        |            |
| 23 21 13 23-2758 | EA  | 1-1/4" Union, Chrome Plated.....  | 147.07 | 43.95        |            |
| 23 21 13 23-2759 | EA  | 1-1/2" Union, Chrome Plated.....  | 182.22 | 52.06        |            |
| 23 21 13 23-2760 | EA  | 2" Union, Chrome Plated.....  | 236.20 | 63.40        |            |
| 23 21 13 23-2761 |     | Chrome Plated Caps <small>(23 21 13 23-2713)</small>                    |        |              |            |
| 23 21 13 23-2762 | EA  | 1/4" Cap, Chrome Plated.....  | 19.94  | 7.20         |            |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 23 21 13 23-2763        | EA  |     | 3/8" Cap, Chrome Plated.....   | 20.70                  | 7.66                 |
| 23 21 13 23-2764        | EA  |     | 1/2" Cap, Chrome Plated.....   | 23.45                  | 8.11                 |
| 23 21 13 23-2765        | EA  |     | 3/4" Cap, Chrome Plated.....   | 29.43                  | 10.72                |
| 23 21 13 23-2766        | EA  |     | 1" Cap, Chrome Plated.....   | 35.33                  | 13.78                |
| 23 21 13 23-2767        | EA  |     | 1-1/4" Cap, Chrome Plated.....   | 51.66                  | 18.84                |
| 23 21 13 23-2768        | EA  |     | 1-1/2" Cap, Chrome Plated.....   | 67.05                  | 21.89                |
| 23 21 13 23-2769        | EA  |     | 2" Cap, Chrome Plated.....   | 96.86                  | 28.64                |
| <b>23 21 13 23-2770</b> |     |     | <b>Chrome Plated Plugs (23 21 13 23-2713)</b>  |                        |                      |
| 23 21 13 23-2771        | EA  |     | 1/4" Plug, Chrome Plated.....  | 16.73                  | 7.20                 |
| 23 21 13 23-2772        | EA  |     | 3/8" Plug, Chrome Plated.....  | 17.49                  | 7.66                 |
| 23 21 13 23-2773        | EA  |     | 1/2" Plug, Chrome Plated.....  | 20.07                  | 8.11                 |
| 23 21 13 23-2774        | EA  |     | 3/4" Plug, Chrome Plated.....  | 27.03                  | 10.72                |
| 23 21 13 23-2775        | EA  |     | 1" Plug, Chrome Plated.....  | 33.51                  | 13.78                |
| 23 21 13 23-2776        | EA  |     | 1-1/4" Plug, Chrome Plated.....  | 45.33                  | 18.84                |
| 23 21 13 23-2777        | EA  |     | 1-1/2" Plug, Chrome Plated.....  | 55.48                  | 21.89                |
| 23 21 13 23-2778        | EA  |     | 2" Plug, Chrome Plated.....  | 76.72                  | 28.64                |
| <b>23 21 13 23-2779</b> |     |     | <b>Chrome Plated Tees (23 21 13 23-2713)</b>   |                        |                      |
| 23 21 13 23-2780        | EA  |     | 1/4" Chrome Plated Tee.....  | 44.26                  | 21.44                |
| 23 21 13 23-2781        | EA  |     | 3/8" Chrome Plated Tee.....  | 47.32                  | 23.43                |
| 23 21 13 23-2782        | EA  |     | 1/2" Chrome Plated Tee.....  | 52.52                  | 25.57                |
| 23 21 13 23-2783        | EA  |     | 3/4" Chrome Plated Tee.....  | 65.37                  | 31.69                |
| 23 21 13 23-2784        | EA  |     | 1" Chrome Plated Tee.....  | 91.53                  | 40.88                |
| 23 21 13 23-2785        | EA  |     | 1-1/4" Chrome Plated Tee.....  | 126.13                 | 56.20                |
| 23 21 13 23-2786        | EA  |     | 1-1/2" Chrome Plated Tee.....  | 159.26                 | 65.39                |
| 23 21 13 23-2787        | EA  |     | 2" Chrome Plated Tee.....  | 215.43                 | 80.70                |
| <b>23 21 13 23-2788</b> |     |     | <b>Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2713)</b>  |                        |                      |
| 23 21 13 23-2789        | EA  |     | 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated.....   | 50.38                  | 25.57                |
| 23 21 13 23-2790        | EA  |     | 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated.....   | 59.57                  | 31.69                |
| <b>23 21 13 23-2791</b> |     |     | <b>Chrome Plated Bell Reducers (23 21 13 23-2713)</b>  |                        |                      |
| 23 21 13 23-2792        | EA  |     | 1/2" x 3/8" Bell Reducer, Chrome Plated.....   | 54.25                  | 25.57                |
| 23 21 13 23-2793        | EA  |     | 3/4" x 1/2" Bell Reducer, Chrome Plated.....   | 66.25                  | 31.69                |
| 23 21 13 23-2794        | EA  |     | 1" x 1/2" Bell Reducer, Chrome Plated.....   | 84.39                  | 40.88                |
| <b>23 21 13 23-2795</b> |     |     | <b>Chrome Plated Reducing Tees (23 21 13 23-2713)</b>  |                        |                      |
| 23 21 13 23-2796        | EA  |     | 3/4" x 1/2" Reducing Tee, Chrome Plated.....   | 71.17                  | 31.69                |
| <b>23 21 13 23-2797</b> |     |     | <b>Chrome Plated Bushings (23 21 13 23-2713)</b>   |                        |                      |
| 23 21 13 23-2798        | EA  |     | 3/8" x 1/4" Bushing, Chrome Plated.....  | 16.64                  | 7.20                 |
| 23 21 13 23-2799        | EA  |     | 1/2" x 1/4" Bushing, Chrome Plated.....  | 17.90                  | 7.66                 |
| 23 21 13 23-2800        | EA  |     | 1/2" x 3/8" Bushing, Chrome Plated.....  | 18.67                  | 8.11                 |
| 23 21 13 23-2801        | EA  |     | 3/4" x 1/2" Bushing, Chrome Plated.....  | 23.84                  | 10.72                |
| 23 21 13 23-2802        | EA  |     | 1" x 3/4" Bushing, Chrome Plated.....  | 34.12                  | 13.78                |
| 23 21 13 23-2803        | EA  |     | 1-1/4" x 1" Bushing, Chrome Plated.....  | 49.49                  | 18.84                |
| <b>23 21 13 23-2804</b> |     |     | <b>Aluminum Tubing Assemblies (23 21 13 23)</b>  |                        |                      |
|                         |     |     | Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. |                        |                      |
| 23 21 13 23-2805        | LF  |     | 1/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 13.33                  | 5.36                 |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |
| 23 21 13 23-2806        | LF  |     | 3/16" Inside Diameter Aluminum Pipe/Tubing Assembly.....   | 15.19                  | 6.12                 |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |
| 23 21 13 23-2807        | LF  |     | 1/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 16.92                  | 6.90                 |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |
| 23 21 13 23-2808        | LF  |     | 5/16" Inside Diameter Aluminum Pipe/Tubing Assembly.....   | 18.52                  | 7.66                 |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |
| 23 21 13 23-2809        | LF  |     | 3/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 20.52                  | 8.42                 |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |
| 23 21 13 23-2810        | LF  |     | 1/2" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 23.50                  | 9.19                 |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |
| 23 21 13 23-2811        | LF  |     | 5/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 27.47                  | 10.57                |
|                         |     |     | Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.  |                        |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 13 23-2812 LF 3/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 33.66                     | 11.99                   |
| Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.    |                           |                         |
| 23 21 13 23-2813 LF 7/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 38.95                     | 13.39                   |
| Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.    |                           |                         |
| 23 21 13 23-2814 LF 1" Inside Diameter Aluminum Pipe/Tubing Assembly.....  | 46.40                     | 14.10                   |
| <b>23 21 16 Hydronic Piping Specialties (23 21)</b>  |                           |                         |
| <b>23 21 16 00-0001 Vent Valves (23 21 16)</b>   |                           |                         |
| 23 21 16 00-0002 EA 1/8", 1.5 PSIG Operating Pressure, Non-Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A).....           | 92.46                     | 22.98                   |
| 23 21 16 00-0003 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74).....                 | 210.17                    | 24.71                   |
| 23 21 16 00-0004 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non-Vacuum Main Steam Air Vent Valve (Hoffman 75).....                       | 200.84                    | 24.71                   |
| 23 21 16 00-0005 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H)..... | 207.37                    | 24.71                   |
| 23 21 16 00-0006 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78).....                                  | 264.49                    | 24.71                   |
| 23 21 16 00-0007 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79).....                            | 198.28                    | 24.71                   |
| <b>23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)</b>  |                           |                         |
| <b>23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)</b>   |                           |                         |
| 23 21 16 00-0010 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 321.59                    | 38.52                   |
| For Flanged Inlet, Add   | 114.91                    |                         |
| 23 21 16 00-0011 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 365.51                    | 45.66                   |
| For Flanged Inlet, Add   | 123.35                    |                         |
| 23 21 16 00-0012 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 457.69                    | 52.79                   |
| For Flanged Inlet, Add   | 166.42                    |                         |
| 23 21 16 00-0013 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 672.43                    | 59.92                   |
| For Flanged Inlet, Add   | 292.80                    |                         |
| 23 21 16 00-0014 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 761.36                    | 71.34                   |
| For Flanged Inlet, Add   | 323.67                    |                         |
| 23 21 16 00-0015 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 1,052.31                  | 89.90                   |
| For Flanged Inlet, Add   | 473.01                    |                         |
| 23 21 16 00-0016 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....  | 2,326.59                  | 118.43                  |
| For Flanged Inlet, Add   | 1,258.67                  |                         |
| <b>23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)</b>  |                           |                         |
| 23 21 16 00-0018 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 1,296.20                  | 38.52                   |
| For Flanged Inlet, Add   | 777.64                    |                         |
| 23 21 16 00-0019 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 1,569.83                  | 45.66                   |
| For Flanged Inlet, Add   | 942.29                    |                         |
| 23 21 16 00-0020 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 2,278.15                  | 52.79                   |
| For Flanged Inlet, Add   | 1,404.33                  |                         |
| 23 21 16 00-0021 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 2,307.03                  | 59.92                   |
| For Flanged Inlet, Add   | 1,404.33                  |                         |
| 23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 3,366.66                  | 71.34                   |
| For Flanged Inlet, Add   | 2,095.28                  |                         |
| 23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 3,438.00                  | 89.90                   |
| For Flanged Inlet, Add   | 2,095.28                  |                         |
| 23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....   | 5,766.94                  | 118.43                  |
| For Flanged Inlet, Add   | 3,598.10                  |                         |
| <b>23 21 16 00-0025 Y-Type Strainers (23 21 16)</b>  |                           |                         |
| <b>23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)</b>   |                           |                         |
| 23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 92.55                     | 17.15                   |
| For Galvanized Body, Add   | 21.77                     |                         |
| For Work In Restricted Working Space, Add  | 14.71                     |                         |
| 23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 93.31                     | 17.47                   |
| For Galvanized Body, Add   | 21.77                     |                         |
| For Work In Restricted Working Space, Add  | 14.93                     |                         |
| 23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 119.36                    | 23.59                   |
| For Galvanized Body, Add   | 25.98                     |                         |
| For Work In Restricted Working Space, Add  | 20.22                     |                         |
| 23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 150.63                    | 28.18                   |
| For Galvanized Body, Add   | 35.11                     |                         |
| For Work In Restricted Working Space, Add  | 24.13                     |                         |
| 23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 195.76                    | 34.85                   |
| For Galvanized Body, Add   | 48.10                     |                         |
| For Work In Restricted Working Space, Add  | 29.87                     |                         |
| 23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 223.08                    | 37.53                   |
| For Galvanized Body, Add   | 57.93                     |                         |
| For Work In Restricted Working Space, Add  | 32.17                     |                         |
| 23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 300.88                    | 42.89                   |
| For Galvanized Body, Add   | 89.17                     |                         |
| For Work In Restricted Working Space, Add  | 36.76                     |                         |
| 23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....   | 554.10                    | 53.61                   |
| For Galvanized Body, Add   | 200.46                    |                         |
| For Work In Restricted Working Space, Add  | 45.95                     |                         |



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST         | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|--------------------------------|----------------------|
| 23 21 16 00-0035        | EA  |     | 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 715.27<br>261.90<br>57.44      | 67.09                |
| <b>23 21 16 00-0036</b> |     |     | <b>Flanged, 125 LB, Iron Body , Y-Type Strainers</b> (23 21 16 00-0025)   |                                |                      |
| 23 21 16 00-0037        | EA  |     | 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 382.28<br>90.37<br>60.47       | 160.84               |
| 23 21 16 00-0038        | EA  |     | 2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 450.88<br>97.79<br>76.59       | 204.19               |
| 23 21 16 00-0039        | EA  |     | 3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 792.15<br>233.12<br>97.77      | 260.40               |
| 23 21 16 00-0040        | EA  |     | 4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 1,076.15<br>264.55<br>164.12   | 436.55               |
| 23 21 16 00-0041        | EA  |     | 5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 1,140.70<br>295.97<br>164.63   | 439.69               |
| 23 21 16 00-0042        | EA  |     | 6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 1,348.03<br>367.58<br>183.86   | 488.55               |
| 23 21 16 00-0043        | EA  |     | 8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 2,223.36<br>723.94<br>232.64   | 624.26               |
| 23 21 16 00-0044        | EA  |     | 10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>         | 4,177.02<br>1,613.53<br>284.99 | 759.97               |
| 23 21 16 00-0045        | EA  |     | 12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....<br><i>For Galvanized Body, Add</i><br><i>For Work In Restricted Working Space, Add</i>         | 4,712.51<br>1,677.72<br>407.12 | 678.55               |
| <b>23 21 16 00-0046</b> |     |     | <b>Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers</b> (23 21 16 00-0025)<br>Note: With screwed cap (4" size has bolted cap).                   |                                |                      |
| 23 21 16 00-0047        | EA  |     | 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 82.52<br>55.66<br>14.93        | 17.47                |
| 23 21 16 00-0048        | EA  |     | 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 109.96<br>72.35<br>20.22       | 23.59                |
| 23 21 16 00-0049        | EA  |     | 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 134.03<br>91.14<br>24.13       | 28.18                |
| 23 21 16 00-0050        | EA  |     | 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 166.69<br>114.10<br>29.87      | 34.85                |
| 23 21 16 00-0051        | EA  |     | 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 194.40<br>148.19<br>32.17      | 37.53                |
| 23 21 16 00-0052        | EA  |     | 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 264.14<br>240.72<br>36.76      | 42.89                |
| 23 21 16 00-0053        | EA  |     | 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 386.86<br>397.26<br>45.95      | 53.61                |
| 23 21 16 00-0054        | EA  |     | 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 675.97<br>823.65<br>57.44      | 67.09                |
| 23 21 16 00-0055        | EA  |     | 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 1,149.27<br>1,563.15<br>68.93  | 80.42                |
| <b>23 21 16 00-0056</b> |     |     | <b>Flanged, 150 LB, Bronze Body, Y-Type Strainers</b> (23 21 16 00-0025)<br>Note: With bolted cap.  |                                |                      |
| 23 21 16 00-0057        | EA  |     | 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 662.00<br>244.02<br>76.59      | 204.19               |
| 23 21 16 00-0058        | EA  |     | 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 692.88<br>248.62<br>83.55      | 222.11               |
| 23 21 16 00-0059        | EA  |     | 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 800.40<br>284.69<br>97.77      | 260.40               |
| 23 21 16 00-0060        | EA  |     | 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 1,699.99<br>691.76<br>164.12   | 436.55               |
| 23 21 16 00-0061        | EA  |     | 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>          | 2,360.53<br>1,048.59<br>183.86 | 488.55               |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST       | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|---|---------------------------------|-------------------------|
| 23 21 16 00-0062        | EA  |     | 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                          | 3,757.98<br>1,789.50<br>232.64  | 624.26                  |
| 23 21 16 00-0063        | EA  |     | 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....<br><i>For 300 LB Rating, Add</i><br><i>For Work In Restricted Working Space, Add</i>                         | 11,654.57<br>6,422.77<br>284.99 | 759.97                  |
| <b>23 21 16 00-0064</b> |     |     | <b>Cast Iron Body, Suction Diffusers</b> <small>(23 21 16)</small><br>Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer. |                                 |                         |
| 23 21 16 00-0065        | EA  |     | 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>   | 562.39<br>29.55                 | 60.35                   |
| 23 21 16 00-0066        | EA  |     | 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>   | 591.86<br>32.82                 | 66.94                   |
| 23 21 16 00-0067        | EA  |     | 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>   | 602.02<br>34.48                 | 70.31                   |
| 23 21 16 00-0068        | EA  |     | 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,150.63<br>83.55               | 222.11                  |
| 23 21 16 00-0069        | EA  |     | 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>   | 625.20<br>40.04                 | 81.80                   |
| 23 21 16 00-0070        | EA  |     | 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>   | 704.06<br>40.04                 | 81.80                   |
| 23 21 16 00-0071        | EA  |     | 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,206.81<br>90.66               | 241.77                  |
| 23 21 16 00-0072        | EA  |     | 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,235.15<br>97.77               | 260.40                  |
| 23 21 16 00-0073        | EA  |     | 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,508.09<br>130.95              | 349.19                  |
| 23 21 16 00-0074        | EA  |     | 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,781.02<br>164.12              | 436.55                  |
| 23 21 16 00-0075        | EA  |     | 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 2,023.96<br>164.63              | 439.02                  |
| 23 21 16 00-0076        | EA  |     | 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 2,435.99<br>183.86              | 488.55                  |
| 23 21 16 00-0077        | EA  |     | 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 2,770.23<br>232.64              | 624.26                  |
| 23 21 16 00-0078        | EA  |     | 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 4,203.67<br>232.64              | 624.26                  |
| 23 21 16 00-0079        | EA  |     | 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>   | 4,814.21<br>284.99              | 759.97                  |
| 23 21 16 00-0080        | EA  |     | 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....<br><i>For Work In Restricted Working Space, Add</i>  | 5,598.20<br>284.99              | 759.97                  |
| <b>23 21 16 00-0081</b> |     |     | <b>Duplex Strainers</b> <small>(23 21 16)</small>   |                                 |                         |
| <b>23 21 16 00-0082</b> |     |     | <b>Iron Body, Duplex Strainers</b> <small>(23 21 16 00-0081)</small>  |                                 |                         |
| <b>23 21 16 00-0083</b> |     |     | <b>Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers</b> <small>(23 21 16 00-0082)</small><br>Note: With brass or stainless steel basket.          |                                 |                         |
| 23 21 16 00-0084        | EA  |     | 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                     | 911.18<br>22.90                 | 38.14                   |
| 23 21 16 00-0085        | EA  |     | 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                       | 1,017.89<br>26.21               | 43.66                   |
| 23 21 16 00-0086        | EA  |     | 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 1,376.59<br>30.77               | 51.31                   |
| 23 21 16 00-0087        | EA  |     | 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 1,729.34<br>33.55               | 55.91                   |
| 23 21 16 00-0088        | EA  |     | 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                       | 2,315.21<br>41.03               | 68.16                   |
| 23 21 16 00-0089        | EA  |     | 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                   | 2,913.93<br>52.37               | 87.31                   |
| <b>23 21 16 00-0090</b> |     |     | <b>Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers</b> <small>(23 21 16 00-0082)</small><br>Note: With brass or stainless steel basket.               |                                 |                         |
| 23 21 16 00-0091        | EA  |     | 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>  | 3,168.58<br>76.59               | 204.19                  |
| 23 21 16 00-0092        | EA  |     | 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>  | 3,278.75<br>83.55               | 222.11                  |
| 23 21 16 00-0093        | EA  |     | 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>  | 4,195.79<br>97.77               | 260.40                  |
| 23 21 16 00-0094        | EA  |     | 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>  | 6,572.11<br>145.40              | 386.77                  |
| 23 21 16 00-0095        | EA  |     | 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>  | 12,787.77<br>183.86             | 488.55                  |
| 23 21 16 00-0096        | EA  |     | 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>  | 24,255.62<br>232.64             | 624.26                  |
| 23 21 16 00-0097        | EA  |     | 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>   | 33,474.31<br>284.99             | 759.97                  |
| 23 21 16 00-0098        | EA  |     | 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>   | 38,093.61<br>575.04             | 958.11                  |
| 23 21 16 00-0099        | EA  |     | 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>   | 45,186.68<br>407.12             | 1,085.67                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>   | 56,453.73<br>447.84       | 1,194.23                |
| <b>23 21 16 00-0101 Bronze Body, Duplex Strainers (23 21 16 00-0081)</b>   |                           |                         |
| <b>23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0101)</b><br><small>Note: With brass or stainless steel basket.</small>           |                           |                         |
| 23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                  | 1,685.15<br>22.90         | 38.29                   |
| 23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 1,870.13<br>26.21         | 43.66                   |
| 23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                | 2,733.22<br>30.77         | 51.31                   |
| 23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                | 3,590.36<br>33.55         | 55.91                   |
| 23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 4,637.13<br>41.03         | 68.16                   |
| 23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                     | 5,696.76<br>52.37         | 87.31                   |
| <b>23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0101)</b><br><small>Note: With brass or stainless steel basket.</small>               |                           |                         |
| 23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>  | 6,516.67<br>76.59         | 204.19                  |
| 23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 6,713.81<br>83.55         | 222.11                  |
| 23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>  | 9,196.19<br>97.77         | 260.40                  |
| 23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>  | 14,485.79<br>145.40       | 386.77                  |
| 23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>  | 31,397.96<br>183.86       | 488.55                  |
| <b>23 21 16 00-0115 Cast Steel Body, Duplex Strainers (23 21 16 00-0081)</b>   |                           |                         |
| <b>23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115)</b><br><small>Note: With brass or stainless steel basket.</small>      |                           |                         |
| 23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                               | 2,619.56<br>26.22         | 43.66                   |
| 23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                           | 3,225.56<br>30.77         | 51.31                   |
| 23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                           | 3,825.69<br>33.55         | 55.91                   |
| 23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                               | 6,467.20<br>41.03         | 68.16                   |
| <b>23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115)</b><br><small>Note: With brass or stainless steel basket.</small>           |                           |                         |
| 23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 6,627.93<br>76.59         | 204.19                  |
| 23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                | 7,284.19<br>83.55         | 222.11                  |
| 23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 9,568.34<br>97.77         | 260.40                  |
| 23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 14,031.79<br>145.40       | 386.77                  |
| 23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 23,908.87<br>183.86       | 488.55                  |
| 23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 46,523.40<br>232.64       | 624.26                  |
| <b>23 21 16 00-0128 Stainless Steel Body, Duplex Strainers (23 21 16 00-0081)</b>  |                           |                         |
| <b>23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0128)</b><br><small>Note: With stainless steel basket.</small> |                           |                         |
| 23 21 16 00-0130 EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                 | 6,511.28<br>26.22         | 43.66                   |
| 23 21 16 00-0131 EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>             | 8,227.58<br>30.77         | 51.31                   |
| 23 21 16 00-0132 EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>             | 9,926.11<br>33.55         | 55.91                   |
| 23 21 16 00-0133 EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                 | 15,899.09<br>41.03        | 68.16                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 21 16 00-0134 |     |     | <b>Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0128)</small><br>Note: With stainless steel basket.             |                        |                      |
| 23 21 16 00-0135 | EA  |     | 2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 16,671.90<br>76.59     | 204.19               |
| 23 21 16 00-0136 | EA  |     | 2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                             | 17,527.84<br>83.55     | 222.11               |
| 23 21 16 00-0137 | EA  |     | 3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 27,448.99<br>97.77     | 260.40               |
| 23 21 16 00-0138 | EA  |     | 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 33,555.79<br>145.40    | 386.77               |
| 23 21 16 00-0139 | EA  |     | 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 58,903.71<br>183.86    | 488.55               |
| 23 21 16 00-0140 | EA  |     | 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                                 | 108,791.95<br>232.64   | 624.26               |
| 23 21 16 00-0141 |     |     | <b>Pressure Regulating Valve</b> <small>(23 21 16)</small>   |                        |                      |
| 23 21 16 00-0142 |     |     | <b>Screwed Ends, Iron Body, Water Pressure Reducing Valves</b> <small>(23 21 16 00-0141)</small><br>Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating          |                        |                      |
| 23 21 16 00-0143 | EA  |     | 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 246.49<br>22.97        | 19.14                |
| 23 21 16 00-0144 | EA  |     | 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 301.64<br>25.52        | 21.44                |
| 23 21 16 00-0145 | EA  |     | 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 392.02<br>27.02        | 22.97                |
| 23 21 16 00-0146 | EA  |     | 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 660.21<br>30.63        | 25.72                |
| 23 21 16 00-0147 | EA  |     | 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 892.41<br>36.75        | 30.63                |
| 23 21 16 00-0148 | EA  |     | 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,281.67<br>56.39      | 46.95                |
| 23 21 16 00-0149 | EA  |     | 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,395.81<br>63.44      | 52.86                |
| 23 21 16 00-0150 | EA  |     | 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,534.30<br>70.49      | 152.97               |
| 23 21 16 00-0151 |     |     | <b>Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0141)</small><br>Note: Single seated, spring loaded, direct acting diaphragm valve.          |                        |                      |
| 23 21 16 00-0152 |     |     | <b>Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0151)</small>  |                        |                      |
| 23 21 16 00-0153 | EA  |     | 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>                                       | 408.82<br>30.84        | 25.73                |
| 23 21 16 00-0154 | EA  |     | 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>                                       | 516.08<br>43.76        | 36.46                |
| 23 21 16 00-0155 | EA  |     | 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 661.10<br>53.44        | 44.42                |
| 23 21 16 00-0156 | EA  |     | 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>                                     | 877.00<br>62.10        | 53.92                |
| 23 21 16 00-0157 | EA  |     | 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>                                     | 1,167.09<br>70.70      | 61.28                |
| 23 21 16 00-0158 | EA  |     | 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,366.90<br>85.61      | 85.61                |
| 23 21 16 00-0159 |     |     | <b>Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0151)</small><br>Note: Single seated, spring loaded, direct acting diaphragm valve. |                        |                      |
| 23 21 16 00-0160 | EA  |     | 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 3,055.17<br>77.83      | 206.89               |
| 23 21 16 00-0161 | EA  |     | 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 3,794.33<br>91.08      | 242.56               |
| 23 21 16 00-0162 | EA  |     | 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 4,909.17<br>152.87     | 406.65               |
| 23 21 16 00-0163 | EA  |     | 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 12,022.56<br>169.24    | 449.69               |
| 23 21 16 00-0164 |     |     | <b>Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0141)</small>   |                        |                      |
| 23 21 16 00-0165 |     |     | <b>Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0164)</small>                                     |                        |                      |
| 23 21 16 00-0166 | EA  |     | 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>                | 2,191.43<br>28.03      | 18.69                |
| 23 21 16 00-0167 | EA  |     | 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>                | 2,236.93<br>28.03      | 18.69                |
| 23 21 16 00-0168 | EA  |     | 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>                  | 2,387.83<br>35.39      | 23.59                |
| 23 21 16 00-0169 | EA  |     | 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>              | 2,809.25<br>45.03      | 30.02                |



| MINOR  | CSI | UOM     | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|-----|---------|--|---------------------------|-------------------------|
| 23 21  | 16  | 00-0170 | EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i> | 3,216.45<br>51.93         | 34.62                   |
| 23 21  | 16  | 00-0171 | EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>     | 3,985.19<br>61.12         | 40.74                   |
| <b>23 21 16 00-0172 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small></b> |     |         |  |                           |                         |
| 23 21  | 16  | 00-0173 | EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>      | 4,925.57<br>77.83         | 206.89                  |
| 23 21  | 16  | 00-0174 | EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>          | 6,071.81<br>91.08         | 242.56                  |
| 23 21  | 16  | 00-0175 | EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>          | 9,209.94<br>152.87        | 406.65                  |
| 23 21  | 16  | 00-0176 | EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....<br><i>For Work In Restricted Working Space, Add</i>          | 20,083.06<br>169.24       | 449.69                  |
| <b>23 21 16 00-0177 Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves <small>(23 21 16 00-0141)</small></b>                                 |     |         |  |                           |                         |
| 23 21  | 16  | 00-0178 | EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 274.43                    | 19.90                   |
| 23 21  | 16  | 00-0179 | EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 337.25                    | 22.05                   |
| 23 21  | 16  | 00-0180 | EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 441.67                    | 23.43                   |
| 23 21  | 16  | 00-0181 | EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 751.98                    | 26.65                   |
| 23 21  | 16  | 00-0182 | EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 1,018.96                  | 31.85                   |
| 23 21  | 16  | 00-0183 | EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 1,461.50                  | 48.78                   |
| 23 21  | 16  | 00-0184 | EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 1,583.49                  | 53.15                   |
| 23 21  | 16  | 00-0185 | EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....  | 1,747.95                  | 61.19                   |
| <b>23 21 16 00-0186 Screwed Ends, Bronze Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small></b>                                  |     |         |  |                           |                         |
| Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).                      |     |         |  |                           |                         |
| 23 21  | 16  | 00-0187 | EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....   | 221.44                    | 19.14                   |
| 23 21  | 16  | 00-0188 | EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....   | 243.53                    | 21.44                   |
| 23 21  | 16  | 00-0189 | EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....   | 299.53                    | 23.73                   |
| 23 21  | 16  | 00-0190 | EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....   | 687.88                    | 25.72                   |
| 23 21  | 16  | 00-0191 | EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....   | 747.90                    | 30.63                   |
| 23 21  | 16  | 00-0192 | EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....   | 1,174.32                  | 46.95                   |
| <b>23 21 16 00-0193 Dual Unit Reducing And Relief Valve <small>(23 21 16)</small></b>  |     |         |  |                           |                         |
| 23 21  | 16  | 00-0194 | EA 1/2" Dual Unit Reducing And Relief Valve .....  | 251.37                    | 46.72                   |
| <b>23 21 16 00-0195 Safety Relief Valve <small>(23 21 16)</small></b>  |     |         |  |                           |                         |
| Note: Used in water heater and hot water storage tank applications.  |     |         |  |                           |                         |
| <b>23 21 16 00-0196 Threaded Inlet, Bronze Body Safety Valves <small>(23 21 16 00-0195)</small></b>  |     |         |  |                           |                         |
| Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.  |     |         |  |                           |                         |
| 23 21  | 16  | 00-0197 | EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve .....  | 101.64                    | 19.14                   |
| 23 21  | 16  | 00-0198 | EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve .....  | 137.03                    | 21.06                   |
| 23 21  | 16  | 00-0199 | EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve .....  | 194.62                    | 25.65                   |
| 23 21  | 16  | 00-0200 | EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve .....  | 247.51                    | 27.18                   |
| 23 21  | 16  | 00-0201 | EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve .....  | 340.08                    | 36.37                   |
| 23 21  | 16  | 00-0202 | EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve .....  | 452.11                    | 42.87                   |
| 23 21  | 16  | 00-0203 | EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve .....  | 516.10                    | 53.60                   |
| <b>23 21 16 00-0204 Threaded, Bronze Body, Temperature And Pressure Relief Valves <small>(23 21 16)</small></b>                                      |     |         |  |                           |                         |
| 23 21  | 16  | 00-0205 | EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....<br><i>For Cast Iron Body, Add</i>  | 110.21<br>58.01           | 39.05                   |
| 23 21  | 16  | 00-0206 | EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....<br><i>For Cast Iron Body, Add</i>  | 141.23<br>80.83           | 46.86                   |
| 23 21  | 16  | 00-0207 | EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....<br><i>For Cast Iron Body, Add</i>  | 205.07<br>128.73          | 62.47                   |
| 23 21  | 16  | 00-0208 | EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....<br><i>For Cast Iron Body, Add</i>  | 328.24<br>273.58          | 66.92                   |
| 23 21  | 16  | 00-0209 | EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....<br><i>For Cast Iron Body, Add</i>  | 541.13<br>523.34          | 75.04                   |
| 23 21  | 16  | 00-0210 | EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....<br><i>For Cast Iron Body, Add</i>  | 632.13<br>569.88          | 107.85                  |
| <b>23 21 16 00-0211 Horizontal Steel Expansion Tanks <small>(23 21 16)</small></b>   |     |         |  |                           |                         |
| Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.   |     |         |  |                           |                         |
| 23 21  | 16  | 00-0212 | EA 10 Gallon Horizontal Steel Expansion Tank .....   | 860.10                    | 153.18                  |
| 23 21  | 16  | 00-0213 | EA 15 Gallon Horizontal Steel Expansion Tank .....   | 1,213.56                  | 191.47                  |
| 23 21  | 16  | 00-0214 | EA 30 Gallon Horizontal Steel Expansion Tank .....   | 1,587.82                  | 229.77                  |
| 23 21  | 16  | 00-0215 | EA 40 Gallon Horizontal Steel Expansion Tank .....   | 1,828.18                  | 268.06                  |
| 23 21  | 16  | 00-0216 | EA 60 Gallon Horizontal Steel Expansion Tank .....   | 2,098.47                  | 271.42                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 21 16 00-0217 Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)</b>                               |                           |                         |
| Note: ASME, Precharged with working pressure 125 psi, Armstrong AX Series.   |                           |                         |
| 23 21 16 00-0218 EA 7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                               | 1,646.35                  | 114.88                  |
| 23 21 16 00-0219 EA 10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 1,725.80                  | 134.04                  |
| 23 21 16 00-0220 EA 21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 2,551.09                  | 153.18                  |
| 23 21 16 00-0221 EA 33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 2,662.03                  | 172.32                  |
| 23 21 16 00-0222 EA 44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 3,589.02                  | 191.47                  |
| 23 21 16 00-0223 EA 55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 3,789.55                  | 210.62                  |
| 23 21 16 00-0224 EA 68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 4,496.17                  | 229.77                  |
| 23 21 16 00-0225 EA 77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 4,812.94                  | 248.91                  |
| 23 21 16 00-0226 EA 90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                              | 5,301.63                  | 268.06                  |
| 23 21 16 00-0227 EA 110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                             | 5,465.40                  | 306.36                  |
| 23 21 16 00-0228 EA 132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                             | 6,837.49                  | 344.65                  |
| 23 21 16 00-0229 EA 158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                             | 7,834.25                  | 382.95                  |
| 23 21 16 00-0230 EA 211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....                             | 9,101.32                  | 459.53                  |
| <br>   |                           |                         |
| <b>23 21 16 00-0231 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX) (23 21 16)</b>                  |                           |                         |
| Note: ASME, Precharged with working pressure 125 psi   |                           |                         |
| 23 21 16 00-0232 EA 8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                 | 1,869.13                  | 114.88                  |
| 23 21 16 00-0233 EA 11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 1,936.47                  | 134.04                  |
| 23 21 16 00-0234 EA 22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 2,754.50                  | 153.18                  |
| 23 21 16 00-0235 EA 34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 2,945.34                  | 172.32                  |
| 23 21 16 00-0236 EA 44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 3,731.88                  | 191.47                  |
| 23 21 16 00-0237 EA 56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 3,929.99                  | 210.62                  |
| 23 21 16 00-0238 EA 67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 4,779.49                  | 229.77                  |
| 23 21 16 00-0239 EA 77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 5,166.48                  | 248.91                  |
| 23 21 16 00-0240 EA 91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                                | 5,710.87                  | 268.06                  |
| 23 21 16 00-0241 EA 111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                               | 5,867.37                  | 306.36                  |
| 23 21 16 00-0242 EA 132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                               | 7,203.14                  | 344.65                  |
| 23 21 16 00-0243 EA 158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                               | 8,350.03                  | 382.95                  |
| 23 21 16 00-0244 EA 211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....                               | 9,626.78                  | 459.53                  |
| <br>   |                           |                         |
| <b>23 21 16 00-0245 Diaphragm Type (Residential Style) Steel Expansion Tanks (23 21 16)</b>                                |                           |                         |
| 23 21 16 00-0246 EA 2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1).....               | 109.77                    | 14.10                   |
| 23 21 16 00-0247 EA 4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1).....              | 154.73                    | 14.10                   |
| <br>   |                           |                         |
| <b>23 21 16 00-0248 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks (23 21 16)</b> |                           |                         |
| 23 21 16 00-0249 EA 15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 1,418.44                  | 459.69                  |
| 23 21 16 00-0250 EA 20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 1,469.21                  | 459.69                  |
| 23 21 16 00-0251 EA 30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 1,519.98                  | 459.69                  |
| 23 21 16 00-0252 EA 40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 1,651.96                  | 459.69                  |
| 23 21 16 00-0253 EA 47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 2,003.45                  | 612.56                  |
| 23 21 16 00-0254 EA 60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 2,307.56                  | 612.86                  |
| 23 21 16 00-0255 EA 80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 2,367.87                  | 612.86                  |
| 23 21 16 00-0256 EA 87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....  | 2,428.17                  | 612.86                  |
| 23 21 16 00-0257 EA 120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank..... | 3,083.15                  | 765.89                  |
| 23 21 16 00-0258 EA 187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank..... | 8,195.91                  | 765.89                  |
| 23 21 16 00-0259 EA 264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank..... | 10,398.42                 | 918.76                  |
| <br>   |                           |                         |
| <b>23 21 16 00-0260 ASME Construction Compression Tanks (23 21 16)</b>   |                           |                         |
| Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height.              |                           |                         |
| See CSI section 22 12 00 00-0000 for other tanks.  |                           |                         |
| 23 21 16 00-0261 EA 15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....                                       | 1,275.52                  | 269.60                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>433.52</i>             |                         |
| 23 21 16 00-0262 EA 24 Gallon, 13" x 51" ASME Construction Compression Tank.....   | 1,301.05                  | 277.25                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>439.91</i>             |                         |
| 23 21 16 00-0263 EA 30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....                                       | 1,416.85                  | 286.44                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>490.91</i>             |                         |
| 23 21 16 00-0264 EA 40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....                                       | 1,548.43                  | 297.17                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>548.28</i>             |                         |
| 23 21 16 00-0265 EA 60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....                                   | 1,800.91                  | 314.01                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>663.03</i>             |                         |
| 23 21 16 00-0266 EA 80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....                                       | 1,871.19                  | 326.27                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>688.54</i>             |                         |
| 23 21 16 00-0267 EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....                                      | 2,309.83                  | 355.37                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>886.18</i>             |                         |
| 23 21 16 00-0268 EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....                                  | 2,516.11                  | 381.41                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>969.04</i>             |                         |
| 23 21 16 00-0269 EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....                                  | 3,124.33                  | 430.43                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>1,236.26</i>           |                         |
| 23 21 16 00-0270 EA 180 Gallon, 30" x 60" ASME Construction Compression Tank.....  | 3,960.37                  | 493.23                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>1,606.58</i>           |                         |
| 23 21 16 00-0271 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank.....  | 4,737.65                  | 546.85                  |
| <i>For Galvanized Steel Tanks, Add</i>   | <i>1,954.83</i>           |                         |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank', '23 21 16 00-0277 Compression Tank Air Fittings', '23 21 16 00-0280 Thermostatic Radiator Valves', '23 21 16 00-0291 Radiator Trap Repair Kits', '23 21 16 00-0297 Vortex Air Separators With Strainer', and '23 21 16 00-0312 Vortex Air Separators'.





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 16 00-0369 EA 1" Screwed Ends, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>         | 448.61<br>25.53           | 42.89                   |
| 23 21 16 00-0370 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>     | 555.79<br>28.46           | 47.48                   |
| 23 21 16 00-0371 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>     | 654.99<br>32.14           | 53.61                   |
| 23 21 16 00-0372 EA 2" Screwed Ends, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>         | 966.22<br>36.80           | 61.28                   |
| 23 21 16 00-0373 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>     | 1,364.41<br>49.29         | 81.95                   |
| 23 21 16 00-0374 EA 3" Screwed Ends, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>         | 1,904.85<br>52.28         | 87.31                   |
| <b>23 21 16 00-0375 Flanged, Bronze Body Basket Strainers (23 21 16 00-0365)</b>   |                           |                         |
| 23 21 16 00-0376 EA 2" Flanged, Bronze Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>               | 1,533.66<br>76.59         | 204.19                  |
| 23 21 16 00-0377 EA 2-1/2" Flanged, Bronze Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>          | 2,278.67<br>83.55         | 222.11                  |
| 23 21 16 00-0378 EA 3" Flanged, Bronze Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>               | 2,586.96<br>97.77         | 260.40                  |
| 23 21 16 00-0379 EA 4" Flanged, Bronze Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>               | 4,373.45<br>164.12        | 436.55                  |
| 23 21 16 00-0380 EA 6" Flanged, Bronze Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>               | 8,178.70<br>183.86        | 488.55                  |
| 23 21 16 00-0381 EA 8" Flanged, Bronze Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>               | 14,820.09<br>232.64       | 624.26                  |
| <b>23 21 16 00-0382 Iron Body Basket Strainers (23 21 16 00-0364)</b>  |                           |                         |
| <b>23 21 16 00-0383 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0382)</b>  |                           |                         |
| 23 21 16 00-0384 EA 1/2" Screwed Ends, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>          | 386.05<br>18.23           | 30.64                   |
| 23 21 16 00-0385 EA 3/4" Screwed Ends, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>          | 435.48<br>21.43           | 36.00                   |
| 23 21 16 00-0386 EA 1" Screwed Ends, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>            | 514.81<br>25.53           | 42.89                   |
| 23 21 16 00-0387 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>       | 670.81<br>28.46           | 47.48                   |
| 23 21 16 00-0388 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>       | 736.76<br>32.14           | 53.61                   |
| 23 21 16 00-0389 EA 2" Screwed Ends, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>            | 874.66<br>36.80           | 61.28                   |
| 23 21 16 00-0390 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>       | 1,238.58<br>49.29         | 81.95                   |
| 23 21 16 00-0391 EA 3" Screwed Ends, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>            | 1,397.76<br>52.28         | 87.31                   |
| <b>23 21 16 00-0392 Flanged, Iron Body Basket Strainers (23 21 16 00-0382)</b>   |                           |                         |
| 23 21 16 00-0393 EA 2" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,035.37<br>76.59         | 204.19                  |
| 23 21 16 00-0394 EA 2-1/2" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>             | 1,329.91<br>83.55         | 222.11                  |
| 23 21 16 00-0395 EA 3" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,445.15<br>97.77         | 260.40                  |
| 23 21 16 00-0396 EA 4" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                 | 2,231.57<br>164.12        | 436.55                  |
| 23 21 16 00-0397 EA 6" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                 | 3,891.45<br>183.86        | 488.55                  |
| 23 21 16 00-0398 EA 8" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                 | 6,823.88<br>232.64        | 624.26                  |
| 23 21 16 00-0399 EA 10" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                | 10,050.83<br>284.99       | 759.97                  |
| 23 21 16 00-0400 EA 12" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                | 12,712.69<br>574.80       | 958.11                  |
| 23 21 16 00-0401 EA 14" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                | 14,980.12<br>407.12       | 1,085.67                |
| 23 21 16 00-0402 EA 16" Flanged, Iron Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                | 15,737.64<br>447.84       | 1,194.23                |
| <b>23 21 16 00-0403 Cast Steel Body Basket Strainers (23 21 16 00-0364)</b>  |                           |                         |
| <b>23 21 16 00-0404 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0403)</b>  |                           |                         |
| 23 21 16 00-0405 EA 1" Screwed Ends, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>     | 1,870.34<br>25.53         | 42.89                   |
| 23 21 16 00-0406 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i> | 2,477.72<br>28.46         | 47.48                   |
| 23 21 16 00-0407 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i> | 2,792.51<br>32.13         | 53.61                   |
| 23 21 16 00-0408 EA 2" Screwed Ends, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>     | 3,942.77<br>36.80         | 61.28                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 23 21 16 00-0409        | EA  |     | 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                    | 5,535.13<br>49.28      | 81.95                |
| 23 21 16 00-0410        | EA  |     | 3" Screwed Ends, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 7,209.36<br>52.29      | 87.31                |
| <b>23 21 16 00-0411</b> |     |     | <b>Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0403)</b>   |                        |                      |
| 23 21 16 00-0412        | EA  |     | 2" Flanged, Cast Steel Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                              | 5,815.26<br>76.59      | 204.19               |
| 23 21 16 00-0413        | EA  |     | 2-1/2" Flanged, Cast Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                         | 8,410.43<br>83.55      | 222.11               |
| 23 21 16 00-0414        | EA  |     | 3" Flanged, Cast Steel Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                              | 9,214.29<br>97.77      | 260.40               |
| 23 21 16 00-0415        | EA  |     | 4" Flanged, Cast Steel Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                              | 13,028.61<br>164.12    | 436.55               |
| 23 21 16 00-0416        | EA  |     | 6" Flanged, Cast Steel Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                              | 23,117.49<br>183.86    | 488.55               |
| 23 21 16 00-0417        | EA  |     | 8" Flanged, Cast Steel Body Basket Strainer.....<br><i>For Work In Restricted Working Space, Add</i>                              | 37,652.78<br>232.64    | 624.26               |
| <b>23 21 16 00-0418</b> |     |     | <b>Stainless Steel Body Basket Strainers (23 21 16 00-0364)</b>   |                        |                      |
| <b>23 21 16 00-0419</b> |     |     | <b>Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0418)</b>   |                        |                      |
| 23 21 16 00-0420        | EA  |     | 1" Screwed Ends, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                   | 584.32<br>25.53        | 42.89                |
| 23 21 16 00-0421        | EA  |     | 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>               | 833.82<br>28.46        | 47.48                |
| 23 21 16 00-0422        | EA  |     | 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>               | 863.33<br>32.13        | 53.61                |
| 23 21 16 00-0423        | EA  |     | 2" Screwed Ends, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                   | 1,266.91<br>36.80      | 61.28                |
| 23 21 16 00-0424        | EA  |     | 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>               | 1,787.98<br>49.28      | 81.95                |
| 23 21 16 00-0425        | EA  |     | 3" Screwed Ends, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                   | 2,509.77<br>52.29      | 87.31                |
| <b>23 21 16 00-0426</b> |     |     | <b>Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0418)</b>  |                        |                      |
| 23 21 16 00-0427        | EA  |     | 2" Flanged, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 1,958.08<br>76.59      | 204.19               |
| 23 21 16 00-0428        | EA  |     | 2-1/2" Flanged, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                    | 2,930.31<br>83.55      | 222.11               |
| 23 21 16 00-0429        | EA  |     | 3" Flanged, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 3,321.23<br>97.77      | 260.40               |
| 23 21 16 00-0430        | EA  |     | 4" Flanged, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 5,613.40<br>164.12     | 436.55               |
| 23 21 16 00-0431        | EA  |     | 6" Flanged, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 8,521.31<br>183.86     | 488.55               |
| 23 21 16 00-0432        | EA  |     | 8" Flanged, Stainless Steel Body Basket Strainer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 14,714.09<br>232.64    | 624.26               |
| <b>23 21 16 00-0433</b> |     |     | <b>Air Vents (23 21 16)</b>   |                        |                      |
| <b>23 21 16 00-0434</b> |     |     | <b>Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0433)</b>  |                        |                      |
|                         |     |     | Note: With guided free floating lever.  |                        |                      |
| 23 21 16 00-0435        | EA  |     | 1/2" NPT, Cast Iron, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>                                 | 402.75<br>493.49       | 44.42                |
| 23 21 16 00-0436        | EA  |     | 3/4" NPT, Cast Iron, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>                                 | 493.49<br>1,116.90     | 58.97                |
| 23 21 16 00-0437        | EA  |     | 1" NPT, Cast Iron, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 1,116.90<br>1,656.57   | 61.28                |
| 23 21 16 00-0438        | EA  |     | 1-1/4" NPT, Cast Iron, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>                               | 1,656.57<br>2,755.96   | 94.66                |
| 23 21 16 00-0439        | EA  |     | 1-1/2" NPT, Cast Iron, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>                               | 2,755.96<br>3,166.41   | 101.86               |
| 23 21 16 00-0440        | EA  |     | 2" NPT, Cast Iron, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>                                   | 3,166.41<br>10,399.23  | 134.34               |
| <b>23 21 16 00-0441</b> |     |     | <b>Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0433)</b>  |                        |                      |
|                         |     |     | Note: With guided free floating lever.  |                        |                      |
| 23 21 16 00-0442        | EA  |     | 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>   | 2,498.45<br>3,130.61   | 51.31                |
| 23 21 16 00-0443        | EA  |     | 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>   | 3,130.61<br>3,734.39   | 58.97                |
| 23 21 16 00-0444        | EA  |     | 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>     | 3,734.39<br>6,126.49   | 61.28                |
| 23 21 16 00-0445        | EA  |     | 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i> | 6,126.49<br>7,074.95   | 94.97                |
| 23 21 16 00-0446        | EA  |     | 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i> | 7,074.95<br>10,399.23  | 101.86               |
| 23 21 16 00-0447        | EA  |     | 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....<br><i>For Work In Restricted Working Space, Add</i>     | 10,399.23<br>275.20    | 134.04               |
| <b>23 21 16 00-0448</b> |     |     | <b>Automatic Air Vent (23 21 16 00-0433)</b>  |                        |                      |
| 23 21 16 00-0449        | EA  |     | 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR).....<br><i>For Work In Restricted Working Space, Add</i>               | 275.20<br>299.88       | 58.97                |
| 23 21 16 00-0450        | EA  |     | 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....<br><i>For Work In Restricted Working Space, Add</i>                | 299.88<br>428.12       | 61.28                |
| 23 21 16 00-0451        | EA  |     | 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....<br><i>For Work In Restricted Working Space, Add</i>            | 428.12<br>522.53       | 94.66                |
| 23 21 16 00-0452        | EA  |     | 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....<br><i>For Work In Restricted Working Space, Add</i>            | 522.53<br>657.95       | 101.86               |
| 23 21 16 00-0453        | EA  |     | 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....<br><i>For Work In Restricted Working Space, Add</i>                | 657.95<br>109.77       | 109.77               |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 21 16 00-0454</b> Manual Air Vent <small>(23 21 16 00-0433)</small>  |                           |                         |
| 23 21 16 00-0455 EA Manual Air Vent.....   | 101.39                    | 55.29                   |
| <b>23 21 16 00-0456</b> Air Release Valves <small>(23 21 16 00-0433)</small>   |                           |                         |
| <b>23 21 16 00-0457</b> Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) <small>(23 21 16 00-0456)</small>                      |                           |                         |
| Note: Up to 175 psi. Stainless steel float.  |                           |                         |
| 23 21 16 00-0458 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50).....   | 208.95                    | 22.98                   |
| 23 21 16 00-0459 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50).....   | 215.08                    | 26.04                   |
| 23 21 16 00-0460 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50).....   | 227.33                    | 32.17                   |
| <b>23 21 16 00-0461</b> Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) <small>(23 21 16 00-0456)</small>                   |                           |                         |
| Note: Up to 175 psi. Stainless steel float.  |                           |                         |
| 23 21 16 00-0462 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A).....   | 826.03                    | 32.17                   |
| 23 21 16 00-0463 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....  | 999.26                    | 55.91                   |
| 23 21 16 00-0464 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....  | 1,314.30                  | 130.36                  |
| <b>23 21 16 00-0465</b> Cast Iron, Air/Vacuum Valves <small>(23 21 16 00-0456)</small>   |                           |                         |
| Note: Up to 150 psi. Stainless steel float.  |                           |                         |
| 23 21 16 00-0466 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141).....  | 403.00                    | 22.98                   |
| 23 21 16 00-0467 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142).....  | 499.00                    | 32.17                   |
| 23 21 16 00-0468 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144).....  | 862.14                    | 55.91                   |
| 23 21 16 00-0469 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146).....  | 1,252.20                  | 130.36                  |
| 23 21 16 00-0470 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152).....  | 1,963.04                  | 218.83                  |
| 23 21 16 00-0471 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153).....  | 2,972.00                  | 276.71                  |
| <b>23 21 16 00-0472</b> Ductile Iron, Combination Air Release And Vacuum Valves, Single Body<br>Double Orifice <small>(23 21 16 00-0456)</small> |                           |                         |
| Note: Up to 150 psi. Stainless Steel float.  |                           |                         |
| 23 21 16 00-0473 EA 1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....                 | 716.33                    | 32.17                   |
| 23 21 16 00-0474 EA 2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....                 | 1,102.76                  | 55.91                   |
| 23 21 16 00-0475 EA 3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C).....             | 2,015.46                  | 130.36                  |
| 23 21 16 00-0476 EA 4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C).....             | 2,627.97                  | 218.83                  |
| <b>23 21 23 Hydronic Pumps</b> <small>(23 21)</small>  |                           |                         |
| <b>23 21 23 13 In-Line Centrifugal Hydronic Pumps</b> <small>(23 21 23)</small>  |                           |                         |
| <b>23 21 23 13-0001</b> Cast Iron Single Stage In-Line Centrifugal Pump <small>(23 21 23 13)</small>   |                           |                         |
| Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.                            |                           |                         |
| 23 21 23 13-0002 EA 3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 6,479.41                  | 409.02                  |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0003 EA 5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 7,115.94                  | 495.05                  |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0004 EA 7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump.....   | 8,238.28                  | 588.13                  |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0005 EA 10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 9,333.05                  | 784.18                  |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0006 EA 15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 10,662.70                 | 854.70                  |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0007 EA 30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 15,654.95                 | 940.73                  |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0008 EA 40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 18,455.32                 | 1,174.86                |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0009 EA 50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 25,427.46                 | 1,342.70                |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0010 EA 75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump.....  | 32,088.22                 | 1,407.30                |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| 23 21 23 13-0011 EA 100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump.....   | 35,267.78                 | 1,808.99                |
| <i>For Mechanical Seal, Add</i>  |                           |                         |
| <i>For Cast Steel Case, Add</i>  |                           |                         |
| <b>23 21 23 13-0012</b> Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump <small>(23 21 23 13)</small>                              |                           |                         |
| Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.   |                           |                         |
| 23 21 23 13-0013 EA 1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump.....                                      | 2,219.56                  | 234.83                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 21 23 13-0014 EA 3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....   | 3,786.55                  | 268.40                  |
| 23 21 23 13-0015 EA 1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....     | 4,123.67                  | 300.55                  |
| 23 21 23 13-0016 EA 1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump ..... | 4,346.45                  | 326.79                  |
| 23 21 23 13-0017 EA 2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....     | 5,617.67                  | 357.82                  |
| 23 21 23 13-0018 EA 3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....     | 5,802.89                  | 395.48                  |
| 23 21 23 13-0019 EA 5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....     | 6,650.57                  | 469.66                  |
| 23 21 23 13-0020 EA 7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump ..... | 7,769.32                  | 578.12                  |
| 23 21 23 13-0021 EA 10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 9,884.96                  | 626.21                  |
| 23 21 23 13-0022 EA 15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 11,486.00                 | 663.03                  |
| 23 21 23 13-0023 EA 20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 14,615.09                 | 704.49                  |
| 23 21 23 13-0024 EA 25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 15,406.73                 | 728.05                  |
| 23 21 23 13-0025 EA 30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 16,198.38                 | 751.46                  |
| 23 21 23 13-0026 EA 40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 19,147.93                 | 805.20                  |
| 23 21 23 13-0027 EA 50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 20,485.13                 | 834.21                  |
| 23 21 23 13-0028 EA 60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 22,848.40                 | 1,204.91                |
| 23 21 23 13-0029 EA 75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....    | 27,716.63                 | 2,409.83                |
| 23 21 23 13-0030 EA 100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump .....   | 31,952.36                 | 2,891.79                |

**23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)****23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)**

Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.

|   |           |          |
|---|-----------|----------|
| 23 21 23 16-0002 EA 5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T) .....    | 7,575.19  | 447.09   |
| 23 21 23 16-0003 EA 7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T) ..... | 8,489.07  | 447.66   |
| 23 21 23 16-0004 EA 10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T) .....       | 11,183.93 | 588.13   |
| 23 21 23 16-0005 EA 15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T) .....       | 12,275.28 | 723.53   |
| 23 21 23 16-0006 EA 15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T) .....       | 13,718.91 | 723.53   |
| 23 21 23 16-0007 EA 20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T) .....       | 13,364.45 | 784.18   |
| 23 21 23 16-0008 EA 20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T) .....       | 14,185.22 | 784.18   |
| 23 21 23 16-0009 EA 25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T) .....       | 15,495.54 | 822.26   |
| 23 21 23 16-0010 EA 30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T) .....       | 17,275.35 | 1,045.10 |
| 23 21 23 16-0011 EA 40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T) .....     | 18,299.73 | 1,174.86 |
| 23 21 23 16-0012 EA 60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T) .....     | 27,583.34 | 2,533.30 |
| 23 21 23 16-0013 EA 75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T) .....     | 39,975.62 | 3,039.42 |
| 23 21 23 16-0014 EA 100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS) .....   | 45,344.21 | 3,799.28 |

**23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)**

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

|  |           |          |
|--|-----------|----------|
| 23 21 23 16-0016 EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....   | 5,881.73  | 328.62   |
| For 300 LB Flanges, Add  | 1,322.28  |          |
| 23 21 23 16-0017 EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....       | 7,369.93  | 352.60   |
| For 300 LB Flanges, Add  | 1,710.26  |          |
| 23 21 23 16-0018 EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....       | 9,218.26  | 376.57   |
| For 300 LB Flanges, Add  | 2,147.86  |          |
| 23 21 23 16-0019 EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....      | 10,793.03 | 447.09   |
| For 300 LB Flanges, Add  | 2,496.77  |          |
| 23 21 23 16-0020 EA 7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....  | 11,342.84 | 447.66   |
| For 300 LB Flanges, Add  | 2,624.15  |          |
| 23 21 23 16-0021 EA 10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 11,949.21 | 588.13   |
| For 300 LB Flanges, Add  | 2,722.85  |          |
| 23 21 23 16-0022 EA 10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 12,203.03 | 588.13   |
| For 300 LB Flanges, Add  | 2,786.31  |          |
| 23 21 23 16-0023 EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 12,765.26 | 588.13   |
| For 300 LB Flanges, Add  | 2,926.87  |          |
| 23 21 23 16-0024 EA 15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 14,858.90 | 723.53   |
| For 300 LB Flanges, Add  | 3,389.25  |          |
| 23 21 23 16-0025 EA 17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case ..... | 15,106.84 | 722.97   |
| For 300 LB Flanges, Add  | 3,438.11  |          |
| 23 21 23 16-0026 EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 15,914.83 | 784.18   |
| For 300 LB Flanges, Add  | 3,626.11  |          |
| 23 21 23 16-0027 EA 25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 17,450.35 | 822.26   |
| For 300 LB Flanges, Add  | 3,981.81  |          |
| 23 21 23 16-0028 EA 30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....     | 19,393.73 | 1,045.10 |
| For 300 LB Flanges, Add  | 4,378.30  |          |
| 23 21 23 16-0029 EA 40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....   | 21,990.77 | 1,174.86 |
| For 300 LB Flanges, Add  | 4,968.80  |          |
| 23 21 23 16-0030 EA 60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....   | 34,528.45 | 2,533.30 |
| For 300 LB Flanges, Add  | 7,410.92  |          |
| 23 21 23 16-0031 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....   | 41,087.95 | 3,039.42 |
| For 300 LB Flanges, Add  | 8,806.55  |          |
| 23 21 23 16-0032 EA 100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case .....  | 50,184.67 | 3,799.28 |
| For 300 LB Flanges, Add  | 10,714.37 |          |



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|  |    |  |   |           |          |
|--|----|--|---|-----------|----------|
| <b>23 21 23 16-0033</b>  |    |  | <b>Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump</b> <small>(23 21 23 16)</small> |           |          |
| <small>Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.</small> |    |  |   |           |          |
| 23 21 23 16-0034   | EA |  | 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 5,663.68  | 328.62   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 1,267.77  |          |
| 23 21 23 16-0035   | EA |  | 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 5,829.03  | 352.60   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 1,298.57  |          |
| 23 21 23 16-0036   | EA |  | 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 5,994.56  | 376.57   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 1,329.39  |          |
| 23 21 23 16-0037   | EA |  | 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....  | 6,487.91  | 385.03   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 1,448.57  |          |
| 23 21 23 16-0038   | EA |  | 7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....  | 10,399.86 | 447.09   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 2,398.48  |          |
| 23 21 23 16-0039   | EA |  | 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 12,563.61 | 588.13   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 2,912.24  |          |
| 23 21 23 16-0040   | EA |  | 15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 14,143.87 | 634.68   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 3,271.52  |          |
| 23 21 23 16-0041   | EA |  | 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 15,061.39 | 705.20   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 3,439.87  |          |
| 23 21 23 16-0042   | EA |  | 25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 16,669.72 | 704.32   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 3,850.78  |          |
| 23 21 23 16-0043   | EA |  | 40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 18,794.82 | 905.17   |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 4,291.58  |          |
| 23 21 23 16-0044   | EA |  | 50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 23,572.62 | 1,013.59 |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 5,404.68  |          |
| 23 21 23 16-0045   | EA |  | 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....   | 30,065.30 | 1,265.98 |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 6,905.73  |          |
| 23 21 23 16-0046   | EA |  | 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP.....  | 37,752.00 | 1,519.71 |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 8,705.28  |          |
| 23 21 23 16-0047   | EA |  | 150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....  | 44,651.92 | 1,687.97 |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 10,348.85 |          |
| 23 21 23 16-0048   | EA |  | 200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....  | 51,570.29 | 2,171.01 |
|  |    |  | <i>For 300 LB Flanges, Add</i>  | 11,845.83 |          |

|   |    |  |  |           |          |
|---|----|--|--|-----------|----------|
| <b>23 21 23 16-0049</b>   |    |  | <b>Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump</b> <small>(23 21 23 16)</small> |           |          |
| <small>Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.</small> |    |  |  |           |          |
| 23 21 23 16-0050  | EA |  | 40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....   | 34,619.24 | 723.53   |
|   |    |  | <i>For 300 LB Flanges, Add</i>   | 8,329.34  |          |
| 23 21 23 16-0051  | EA |  | 50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....   | 37,375.41 | 784.18   |
|   |    |  | <i>For 300 LB Flanges, Add</i>   | 8,991.26  |          |
| 23 21 23 16-0052  | EA |  | 75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....   | 49,750.22 | 999.32   |
|   |    |  | <i>For 300 LB Flanges, Add</i>   | 11,979.97 |          |
| 23 21 23 16-0053  | EA |  | 100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....  | 58,276.85 | 1,373.15 |
|   |    |  | <i>For 300 LB Flanges, Add</i>   | 13,940.04 |          |
| 23 21 23 16-0054  | EA |  | 200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....  | 80,792.88 | 1,830.86 |
|   |    |  | <i>For 300 LB Flanges, Add</i>   | 19,359.32 |          |

|                         |    |  |  |           |        |
|-------------------------|----|--|--|-----------|--------|
| <b>23 21 23 16-0055</b> |    |  | <b>Cast Iron Close Coupling Pumps</b> <small>(23 21 23 16)</small>   |           |        |
| <b>23 21 23 16-0056</b> |    |  | <b>Foot Mounted Cast Iron Close Coupled Pumps</b> <small>(23 21 23 16-0055)</small>                                    |           |        |
| 23 21 23 16-0057        | EA |  | 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....  | 6,787.61  | 423.12 |
| 23 21 23 16-0058        | EA |  | 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM)..... | 7,378.04  | 423.12 |
| 23 21 23 16-0059        | EA |  | 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM)..... | 8,197.95  | 446.63 |
| 23 21 23 16-0060        | EA |  | 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....     | 8,720.25  | 446.63 |
| 23 21 23 16-0061        | EA |  | 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....   | 10,010.57 | 469.66 |
| 23 21 23 16-0062        | EA |  | 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....     | 11,866.69 | 565.46 |
| 23 21 23 16-0063        | EA |  | 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....  | 15,566.01 | 696.59 |
| 23 21 23 16-0064        | EA |  | 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....  | 16,665.77 | 753.94 |
| 23 21 23 16-0065        | EA |  | 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....  | 19,286.25 | 814.25 |

|                         |    |  |   |          |        |
|-------------------------|----|--|---|----------|--------|
| <b>23 21 23 16-0066</b> |    |  | <b>Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt</b> <small>(23 21 23 16)</small> |          |        |
| 23 21 23 16-0067        | EA |  | 1/3 HP, Centrifugal Pump, Polypropylene Body.....   | 1,721.82 | 218.59 |
| 23 21 23 16-0068        | EA |  | 1/2 HP, Centrifugal Pump, Polypropylene Body.....   | 1,836.52 | 231.76 |
| 23 21 23 16-0069        | EA |  | 3/4 HP, Centrifugal Pump, Polypropylene Body.....   | 2,136.31 | 246.77 |

**23 21 23 23 Vertical-Turbine Hydronic Pumps** (23 21 23)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| 23 21 23 23-0001 | Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps <sup>(23 21 23 23)</sup>   |            |          |
|------------------|---|------------|----------|
|                  | Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth. |            |          |
| 23 21 23 23-0002 | EA 2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage.....   | 11,867.71  | 1,045.10 |
|                  | For Each Extra Column Assembly <60", Add  | 1,012.10   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 412.02     |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 293.35     |          |
| 23 21 23 23-0003 | EA 3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage.....   | 13,546.10  | 1,174.86 |
|                  | For Each Extra Column Assembly <60", Add  | 1,146.88   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 478.65     |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 343.19     |          |
| 23 21 23 23-0004 | EA 15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage.....  | 15,986.17  | 1,013.59 |
|                  | For Each Extra Column Assembly <60", Add  | 1,351.58   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 566.76     |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 406.89     |          |
| 23 21 23 23-0005 | EA 25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage.....  | 18,729.23  | 1,169.63 |
|                  | For Each Extra Column Assembly <60", Add  | 1,573.49   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 674.02     |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 486.73     |          |
| 23 21 23 23-0006 | EA 50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage.....  | 22,941.27  | 1,265.98 |
|                  | For Each Extra Column Assembly <60", Add  | 1,916.71   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 836.24     |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 606.82     |          |
| 23 21 23 23-0007 | EA 100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage.....  | 30,059.45  | 1,519.71 |
|                  | For Each Extra Column Assembly <60", Add  | 2,502.45   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 1,104.68   |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 804.09     |          |
| 23 21 23 23-0008 | EA 150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage.....  | 36,038.09  | 1,899.63 |
|                  | For Each Extra Column Assembly <60", Add  | 3,005.17   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 1,319.40   |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 959.02     |          |
| 23 21 23 23-0009 | EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage.....  | 57,069.57  | 2,171.01 |
|                  | For Each Extra Column Assembly <60", Add  | 4,705.13   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 2,143.22   |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 1,572.52   |          |
| 23 21 23 23-0010 | EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage.....  | 74,598.50  | 2,533.30 |
|                  | For Each Extra Column Assembly <60", Add  | 6,130.71   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 2,821.11   |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 2,075.13   |          |
| 23 21 23 23-0011 | EA 300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage.....   | 104,056.27 | 3,039.42 |
|                  | For Each Extra Column Assembly <60", Add  | 8,519.89   |          |
|                  | For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add   | 3,966.86   |          |
|                  | For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add  | 2,926.30   |          |

**23 21 29 Automatic Condensate Pump Units <sup>(23 21)</sup>**

| 23 21 29 00-0001 | Automatic Shallow Pan Condensate Pump <sup>(23 21 29)</sup>  |        |       |
|------------------|--|--------|-------|
| 23 21 29 00-0002 | EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....                   | 244.32 | 45.83 |
| 23 21 29 00-0003 | EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....                    | 263.41 | 45.83 |
| 23 21 29 00-0004 | EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....                    | 403.16 | 52.89 |
| 23 21 29 00-0005 | Automatic Condensate Pump With Tank <sup>(23 21 29)</sup>  |        |       |
| 23 21 29 00-0006 | EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL).....                                      | 138.12 | 35.26 |
| 23 21 29 00-0007 | EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20).....                                   | 146.27 | 35.26 |
| 23 21 29 00-0008 | EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS)..... | 238.07 | 45.83 |
| 23 21 29 00-0009 | EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS)..... | 258.42 | 52.89 |
| 23 21 29 00-0010 | EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS).....  | 461.69 | 59.94 |

**23 22 Steam and Condensate Piping and Pumps <sup>(23 20)</sup>****23 22 16 Steam and Condensate Heating Piping Specialties <sup>(23 22)</sup>**

| 23 22 16 00-0001 | Steam Temperature Regulator, Iron Body <sup>(23 22 16)</sup>  |          |        |
|------------------|---|----------|--------|
| 23 22 16 00-0002 | Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <sup>(23 22 16 00-0001)</sup> |          |        |
|                  | Note: Up to 150 PSI.  |          |        |
| 23 22 16 00-0003 | EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                  | 1,358.32 | 22.05  |
| 23 22 16 00-0004 | EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                  | 1,432.54 | 29.70  |
| 23 22 16 00-0005 | EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                    | 1,899.68 | 36.60  |
| 23 22 16 00-0006 | EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                | 2,100.52 | 46.25  |
| 23 22 16 00-0007 | EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                | 2,158.40 | 53.14  |
| 23 22 16 00-0008 | EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                    | 2,547.88 | 57.80  |
| 23 22 16 00-0009 | EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                | 3,260.46 | 105.88 |
| 23 22 16 00-0010 | EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                    | 3,010.13 | 115.46 |
| 23 22 16 00-0011 | EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                    | 4,515.30 | 270.26 |
| 23 22 16 00-0012 | EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....                    | 7,373.70 | 317.21 |



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Piping and Pumps

23 20



Steam and Condensate Piping and Pumps

23 22

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 'Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body' and 'Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body'.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 22 Steam and Condensate Piping and Pumps**



| MINOR                   |     |  |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|--|--|--------------|------------|
| CSI                     | UOM | DESCRIPTION  |  | UNIT COST    | UNIT COST  |
| 23 22 16 00-0074        | EA  | 2" x 2" Threaded Bronze Body Safety Relief Valve, Steam .....                      |  | 1,470.57     | 42.87      |
| 23 22 16 00-0075        | EA  | 2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....                  |  | 1,607.38     | 47.08      |
| 23 22 16 00-0076        | EA  | 2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....              |  | 1,915.52     | 53.60      |
| <b>23 22 16 00-0077</b> |     | <b>Bronze Body Safety Valve, Threaded, Water</b> <small>(23 22 16 00-0046)</small> |  |              |            |
|                         |     | Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.    |  |              |            |
| 23 22 16 00-0078        | EA  | 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water .....                  |  | 276.34       | 21.06      |
| 23 22 16 00-0079        | EA  | 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water .....                    |  | 313.97       | 22.97      |
| 23 22 16 00-0080        | EA  | 1" x 1" Threaded Bronze Body Safety Relief Valve, Water .....                      |  | 428.96       | 25.27      |
| 23 22 16 00-0081        | EA  | 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water .....                  |  | 471.73       | 27.18      |
| 23 22 16 00-0082        | EA  | 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water .....              |  | 674.45       | 30.63      |
| 23 22 16 00-0083        | EA  | 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water .....              |  | 905.33       | 36.37      |
| 23 22 16 00-0084        | EA  | 2" x 2" Threaded Bronze Body Safety Relief Valve, Water .....                      |  | 1,311.33     | 42.87      |
| <b>23 22 16 00-0085</b> |     | <b>Steam Traps</b> <small>(23 22 16)</small>                                       |  |              |            |
| <b>23 22 16 00-0086</b> |     | <b>Inverted Bucket Steam Traps</b> <small>(23 22 16 00-0085)</small>               |  |              |            |
| 23 22 16 00-0087        | EA  | 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap .....                            |  | 348.15       | 45.95      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 27.57        |            |
| 23 22 16 00-0088        | EA  | 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap .....                            |  | 351.98       | 47.87      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 28.72        |            |
| 23 22 16 00-0089        | EA  | 1" 250 PSI Inverted Bucket Cast Iron Steam Trap .....                              |  | 514.62       | 51.01      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 30.64        |            |
| 23 22 16 00-0090        | EA  | 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap .....                          |  | 826.74       | 69.62      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 41.78        |            |
| 23 22 16 00-0091        | EA  | 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap .....                          |  | 1,222.69     | 85.78      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 51.05        |            |
| 23 22 16 00-0092        | EA  | 2" 250 PSI Inverted Bucket Cast Iron Steam Trap .....                              |  | 1,568.57     | 127.65     |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 76.59        |            |
| <b>23 22 16 00-0093</b> |     | <b>Float And Thermostatic Steam Traps</b> <small>(23 22 16 00-0085)</small>        |  |              |            |
| 23 22 16 00-0094        | EA  | 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap .....               |  | 367.70       | 47.87      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 28.72        |            |
| 23 22 16 00-0095        | EA  | 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                 |  | 479.19       | 51.05      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 30.64        |            |
| 23 22 16 00-0096        | EA  | 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap .....             |  | 595.49       | 69.62      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 41.78        |            |
| 23 22 16 00-0097        | EA  | 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap .....             |  | 864.55       | 85.09      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 51.06        |            |
| 23 22 16 00-0098        | EA  | 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                 |  | 1,453.19     | 127.60     |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 76.59        |            |
| 23 22 16 00-0099        | EA  | 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap .....               |  | 462.39       | 47.87      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 28.72        |            |
| 23 22 16 00-0100        | EA  | 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                 |  | 502.11       | 51.01      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 30.64        |            |
| 23 22 16 00-0101        | EA  | 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap .....             |  | 657.98       | 69.62      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 41.78        |            |
| 23 22 16 00-0102        | EA  | 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap .....             |  | 1,015.79     | 85.02      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 51.06        |            |
| 23 22 16 00-0103        | EA  | 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                 |  | 1,592.78     | 127.64     |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 76.59        |            |
| 23 22 16 00-0104        | EA  | 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap .....               |  | 593.64       | 47.87      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 28.72        |            |
| 23 22 16 00-0105        | EA  | 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                 |  | 660.44       | 51.05      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 30.64        |            |
| 23 22 16 00-0106        | EA  | 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap .....             |  | 1,001.74     | 69.62      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 41.78        |            |
| 23 22 16 00-0107        | EA  | 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap .....             |  | 1,205.18     | 85.02      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 51.06        |            |
| 23 22 16 00-0108        | EA  | 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                 |  | 1,986.51     | 127.65     |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 76.59        |            |
| 23 22 16 00-0109        | EA  | 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap .....              |  | 601.97       | 47.87      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 28.72        |            |
| 23 22 16 00-0110        | EA  | 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                |  | 660.44       | 51.05      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 30.64        |            |
| 23 22 16 00-0111        | EA  | 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap .....                |  | 1,001.74     | 69.62      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 41.78        |            |
| 23 22 16 00-0112        | EA  | 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap .....                |  | 1,205.18     | 85.02      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 51.06        |            |
| 23 22 16 00-0113        | EA  | 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap .....                |  | 1,986.51     | 127.64     |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 76.59        |            |
| <b>23 22 16 00-0114</b> |     | <b>Thermostatic Steam Traps</b> <small>(23 22 16 00-0085)</small>                  |  |              |            |
| 23 22 16 00-0115        | EA  | 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap .....                         |  | 188.55       | 45.95      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 27.57        |            |
| 23 22 16 00-0116        | EA  | 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap .....                         |  | 301.96       | 47.87      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 28.72        |            |
| 23 22 16 00-0117        | EA  | 1" 25 PSI Maximum Pressure Thermostatic Steam Trap .....                           |  | 369.25       | 51.01      |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                   |  | 30.64        |            |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 22 16 00-0118 Thermodynamic Steam Traps</b> <small>(23 22 16 00-0085)</small>                 |                           |                         |
| 23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....                     | 390.14                    | 41.36                   |
| 23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....                     | 546.07                    | 45.95                   |
| 23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....                     | 672.79                    | 47.87                   |
| 23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....                       | 895.85                    | 51.01                   |
| <b>23 22 16 00-0123 Steam Moisture Separator</b> <small>(23 22 16 00-0085)</small>                  |                           |                         |
| 23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1).....                  | 803.27                    | 76.59                   |
| 23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1).....                  | 861.64                    | 103.40                  |
| 23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded (Spirax Sarco S1).....                    | 1,033.86                  | 116.42                  |
| 23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2).....                | 1,612.23                  | 133.26                  |
| 23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....                     | 1,993.25                  | 204.19                  |
| 23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....                 | 2,973.39                  | 222.11                  |
| 23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....                     | 3,420.08                  | 260.40                  |
| 23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....                     | 4,702.78                  | 436.55                  |
| 23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....                     | 9,070.83                  | 551.44                  |
| <b>23 22 16 00-0133 Steam/Condensate Meter</b> <small>(23 22 16)</small>                            |                           |                         |
| Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand. |                           |                         |
| 23 22 16 00-0134 EA 1" Steam/Condensate Meter.....  | 6,793.89                  | 126.88                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0135 EA 2" Steam/Condensate Meter.....  | 7,666.22                  | 149.09                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter.....  | 8,135.52                  | 185.04                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0137 EA 3" Steam/Condensate Meter.....  | 8,634.42                  | 243.19                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0138 EA 4" Steam/Condensate Meter.....  | 9,749.81                  | 377.82                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0139 EA 6" Steam/Condensate Meter.....  | 16,672.31                 | 477.92                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0140 EA 8" Steam/Condensate Meter.....  | 17,284.85                 | 603.40                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0141 EA 10" Steam/Condensate Meter.....   | 18,098.75                 | 740.15                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0142 EA 12" Steam/Condensate Meter.....   | 18,989.08                 | 898.75                  |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |
| 23 22 16 00-0143 EA 14" Steam/Condensate Meter.....   | 20,230.55                 | 1,057.35                |
| For Steam Meter Pressure-Compensated Counter, Add   | 1,220.00                  |                         |
| For Contactor Used For Dial Counter, Add  | 567.00                    |                         |
| For Wall Or Panel Mounted Remote Totalizer With Contactor, Add                                      | 905.00                    |                         |
| For Direct Reading Pressure Gauge, Add  | 79.82                     |                         |
| For Direct Reading Thermometer, Stainless Steel Case With Trim, Add                                 | 64.52                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                                   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 23 22 16 00-0144 EA 16" Steam/Condensate Meter.....<br><i>For Steam Meter Pressure-Compensated Counter, Add</i><br><i>For Contactor Used For Dial Counter, Add</i><br><i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i><br><i>For Direct Reading Pressure Gauge, Add</i><br><i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i> | 20,956.75<br>1,220.00<br>567.00<br>905.00<br>79.82<br>64.52 | 1,163.09                |
| <b>23 22 23 Steam Condensate Pumps (23 22)</b>   |   |                         |
| <b>23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)</b>   |   |                         |
| <b>23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)</b><br>Note: Cast iron receiver, float switch.   |   |                         |
| <b>23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)</b>   |   |                         |
| 23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20<br>PSI Discharge Pressure .....   | 2,188.46  | 717.89                  |
| 23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch,<br>20 PSI Discharge Pressure .....   | 2,712.26  | 737.63                  |
| 23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 2,844.89  | 787.00                  |
| 23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 3,094.64  | 795.46                  |
| 23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 3,445.28  | 865.98                  |
| 23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 4,846.55  | 865.98                  |
| 23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 4,951.58  | 925.22                  |
| 23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 5,953.31  | 967.53                  |
| 23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI<br>Discharge Pressure .....  | 6,031.24  | 1,009.84                |
| <b>23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)</b>   |   |                         |
| 23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30<br>PSI Discharge Pressure .....   | 2,481.36  | 767.25                  |
| 23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch,<br>30 PSI Discharge Pressure .....   | 3,118.69  | 787.00                  |
| 23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI<br>Discharge Pressure .....  | 3,249.68  | 839.18                  |
| 23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI<br>Discharge Pressure .....  | 3,724.67  | 906.88                  |
| 23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30<br>PSI Discharge Pressure .....  | 4,951.58  | 926.63                  |
| 23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI<br>Discharge Pressure .....  | 5,092.21  | 959.06                  |
| 23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI<br>Discharge Pressure .....  | 5,258.82  | 1,009.84                |
| 23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI<br>Discharge Pressure .....  | 6,048.72  | 1,074.72                |
| <b>23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)</b>   |   |                         |
| 23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI<br>Discharge Pressure .....   | 2,778.61  | 880.08                  |
| 23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40<br>PSI Discharge Pressure .....   | 3,399.22  | 950.60                  |
| 23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40<br>PSI Discharge Pressure .....  | 3,920.95  | 939.32                  |
| 23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float<br>Switch, 40 PSI Discharge Pressure .....  | 5,069.95  | 959.06                  |
| 23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI<br>Discharge Pressure .....  | 5,189.07  | 999.97                  |
| 23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI<br>Discharge Pressure .....  | 6,031.24  | 1,009.84                |
| 23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI<br>Discharge Pressure .....  | 6,143.33  | 1,074.72                |
| <b>23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)</b>   |   |                         |
| 23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI<br>Discharge Pressure .....   | 4,856.99  | 953.43                  |
| 23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50<br>PSI Discharge Pressure .....   | 3,670.11  | 973.17                  |
| 23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI<br>Discharge Pressure .....  | 4,143.58  | 980.22                  |
| 23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50<br>PSI Discharge Pressure .....  | 5,300.04  | 1,066.25                |
| 23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50<br>PSI Discharge Pressure .....  | 8,074.80  | 1,149.47                |



| MINOR  | TOTAL DIRECT | DEMOLITION | DESCRIPTION   |                    |
|--|--------------|------------|---|--------------------|
| CSI UOM  | UNIT COST    | UNIT COST  |   |                    |
| 23 22 23 13-0035   |              |            | <b>Duplex Condensate Pumps And Motors</b> <small>(23 22 23 13)</small>  |                    |
|  |              |            | Note: Cast iron receiver, float switch, alternator assembly.  |                    |
| 23 22 23 13-0036   |              |            | <b>20 PSI Discharge Pressure</b> <small>(23 22 23 13-0035)</small>  |                    |
| 23 22 23 13-0037   | EA           |            | 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure    | 3,490.97 963.30    |
| 23 22 23 13-0038   | EA           |            | 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure         | 3,719.13 1,057.79  |
| 23 22 23 13-0039   | EA           |            | 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure         | 4,015.64 1,066.25  |
| 23 22 23 13-0040   | EA           |            | 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure           | 4,471.43 1,162.16  |
| 23 22 23 13-0041   | EA           |            | 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure         | 5,984.00 1,162.16  |
| 23 22 23 13-0042   | EA           |            | 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure             | 6,135.27 1,252.43  |
| 23 22 23 13-0043   | EA           |            | 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure         | 7,172.63 1,307.44  |
| 23 22 23 13-0044   | EA           |            | 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure             | 7,368.18 1,372.31  |
| 23 22 23 13-0045   |              |            | <b>30 PSI Discharge Pressure</b> <small>(23 22 23 13-0035)</small>  |                    |
| 23 22 23 13-0046   | EA           |            | 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure    | 4,409.63 1,038.05  |
| 23 22 23 13-0047   | EA           |            | 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure         | 4,643.12 1,133.95  |
| 23 22 23 13-0048   | EA           |            | 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure           | 5,126.52 1,105.75  |
| 23 22 23 13-0049   | EA           |            | 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure     | 6,135.27 1,252.43  |
| 23 22 23 13-0050   | EA           |            | 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure         | 6,315.99 1,298.97  |
| 23 22 23 13-0051   | EA           |            | 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure             | 7,145.58 1,372.31  |
| 23 22 23 13-0052   | EA           |            | 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure             | 7,516.27 1,471.04  |
| 23 22 23 13-0053   |              |            | <b>40 PSI Discharge Pressure</b> <small>(23 22 23 13-0035)</small>  |                    |
| 23 22 23 13-0054   | EA           |            | 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure      | 4,838.91 1,224.22  |
| 23 22 23 13-0055   | EA           |            | 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure       | 5,305.00 1,279.23  |
| 23 22 23 13-0056   | EA           |            | 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure | 6,329.35 1,298.97  |
| 23 22 23 13-0057   | EA           |            | 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure             | 6,526.02 1,363.85  |
| 23 22 23 13-0058   | EA           |            | 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure             | 7,369.30 1,372.31  |
| 23 22 23 13-0059   | EA           |            | 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure             | 7,542.99 1,471.04  |
| 23 22 23 13-0060   |              |            | <b>50 PSI Discharge Pressure</b> <small>(23 22 23 13-0035)</small>  |                    |
| 23 22 23 13-0061   | EA           |            | 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure      | 5,023.67 1,224.22  |
| 23 22 23 13-0062   | EA           |            | 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure           | 5,434.90 1,345.51  |
| 23 22 23 13-0063   | EA           |            | 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure       | 6,700.81 1,461.16  |
| 23 22 23 13-0064   | EA           |            | 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure       | 11,130.26 1,582.45 |
| <b>23 23 Refrigerant Piping</b> <small>(23 20)</small>           |              |            |   |                    |
| <b>23 23 13 Refrigerant Piping Valves</b> <small>(23 23)</small> |              |            |   |                    |
| 23 23 13 00-0001   |              |            | <b>Ball Valves</b> <small>(23 23 13)</small>  |                    |
| 23 23 13 00-0002   |              |            | <b>Refrigeration Ball Valves, Sweat, 1400 Series</b> <small>(23 23 13 00-0001)</small>  |                    |
| 23 23 13 00-0003   | EA           |            | 3/8" Refrigeration Ball Valve, Sweated  | 58.28 15.31        |
| 23 23 13 00-0004   | EA           |            | 1/2" Refrigeration Ball Valve, Sweated  | 60.75 15.31        |
| 23 23 13 00-0005   | EA           |            | 5/8" Refrigeration Ball Valve, Sweated  | 77.35 15.31        |
| 23 23 13 00-0006   | EA           |            | 7/8" Refrigeration Ball Valve, Sweated  | 103.67 16.85       |
| 23 23 13 00-0007   | EA           |            | 1-1/8" Refrigeration Ball Valve, Sweated  | 142.10 19.14       |
| 23 23 13 00-0008   | EA           |            | 1-5/8" Refrigeration Ball Valve, Sweated  | 228.13 23.58       |
| 23 23 13 00-0009   |              |            | <b>Shut-Off Valves</b> <small>(23 23 13)</small>  |                    |
| 23 23 13 00-0010   |              |            | <b>Packless</b> <small>(23 23 13 00-0009)</small>   |                    |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless.....   | 70.15                     | 15.93                   |
| 23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless.....   | 86.44                     | 17.47                   |
| 23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless.....   | 171.44                    | 23.89                   |
| <b>23 23 13 00-0014 Packed</b> (23 23 13 00-0009)   |                           |                         |
| 23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed.....   | 300.79                    | 34.77                   |
| 23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed.....   | 400.17                    | 42.58                   |
| 23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed.....   | 485.52                    | 47.94                   |
| 23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed.....   | 686.98                    | 54.68                   |
| 23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed.....   | 1,170.60                  | 153.18                  |
| 23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed.....   | 1,531.39                  | 191.47                  |
| 23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed.....   | 2,169.29                  | 255.35                  |
| <b>23 23 13 00-0022 Check Valves</b> (23 23 13)   |                           |                         |
| 23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration.....  | 90.89                     | 15.31                   |
| 23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration.....  | 264.91                    | 16.85                   |
| 23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration.....  | 308.07                    | 19.14                   |
| 23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration.....  | 413.30                    | 20.37                   |
| 23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration.....  | 540.03                    | 23.59                   |
| 23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration.....  | 792.01                    | 27.88                   |
| 23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration.....  | 1,109.58                  | 40.89                   |
| 23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration.....  | 1,459.60                  | 53.61                   |
| <b>23 23 13 00-0031 Solenoid Valves</b> (23 23 13)  |                           |                         |
| <b>23 23 13 00-0032 Solenoid Valve, 24 Volt Coil</b> (23 23 13 00-0031)   |                           |                         |
| 23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration.....   | 231.32                    | 15.31                   |
| 23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration.....   | 236.61                    | 15.31                   |
| 23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration.....   | 293.81                    | 16.85                   |
| 23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration.....   | 293.81                    | 16.85                   |
| 23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration.....   | 408.44                    | 19.14                   |
| 23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration.....   | 649.36                    | 20.37                   |
| 23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration.....   | 1,179.25                  | 23.59                   |
| 23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration.....   | 1,200.67                  | 27.88                   |
| <b>23 23 16 Refrigerant Piping Specialties</b> (23 23)  |                           |                         |
| <b>23 23 16 00-0001 Soft Refrigeration Copper Tubing</b> (23 23 16)   |                           |                         |
| Note: Based on outside diameter. Nitrogenized. Lengths up to 100' See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only). |                           |                         |
| 23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 6.34                      | 3.65                    |
| 23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing.....  | 6.64                      | 3.74                    |
| 23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing.....   | 6.94                      | 3.84                    |
| 23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing.....  | 7.41                      | 3.90                    |
| 23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 7.63                      | 3.97                    |
| 23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing.....   | 8.56                      | 4.16                    |
| 23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 9.38                      | 4.21                    |
| 23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing.....   | 10.24                     | 4.36                    |
| 23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 13.16                     | 5.12                    |
| 23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 16.68                     | 5.86                    |
| 23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 23.97                     | 6.94                    |
| 23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing.....   | 28.84                     | 7.76                    |
| <b>23 23 16 00-0014 Type L Drawn, ACR Copper Tubing</b> (23 23 16)  |                           |                         |
| Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).                            |                           |                         |
| 23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 8.44                      | 4.29                    |
| For Medical Applications "Oxygen Clean", Add  | 0.75                      |                         |
| 23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 9.43                      | 4.29                    |
| For Medical Applications "Oxygen Clean", Add  | 0.80                      |                         |
| 23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 10.06                     | 4.29                    |
| For Medical Applications "Oxygen Clean", Add  | 0.83                      |                         |
| 23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 14.54                     | 6.44                    |
| For Medical Applications "Oxygen Clean", Add  | 1.21                      |                         |
| 23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 15.88                     | 6.90                    |
| For Medical Applications "Oxygen Clean", Add  | 1.31                      |                         |
| 23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 18.37                     | 6.90                    |
| For Medical Applications "Oxygen Clean", Add  | 1.44                      |                         |
| 23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 22.82                     | 7.96                    |
| For Medical Applications "Oxygen Clean", Add  | 1.74                      |                         |
| 23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 27.57                     | 9.19                    |
| For Medical Applications "Oxygen Clean", Add  | 2.07                      |                         |
| 23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 38.88                     | 11.49                   |
| For Medical Applications "Oxygen Clean", Add  | 2.80                      |                         |
| 23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....  | 58.33                     | 17.30                   |
| For Medical Applications "Oxygen Clean", Add  | 4.22                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....<br><i>For Medical Applications "Oxygen Clean", Add</i> | 75.37<br>5.38             | 21.45                   |
| 23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....<br><i>For Medical Applications "Oxygen Clean", Add</i> | 94.70<br>6.65             | 25.42                   |
| 23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....<br><i>For Medical Applications "Oxygen Clean", Add</i> | 116.98<br>8.15            | 30.64                   |
| <b>23 23 16 00-0028 Refrigeration Fittings (23 23 16)</b>  |                           |                         |
| <b>23 23 16 00-0029 Brass Flare Fittings (23 23 16 00-0028)</b>  |                           |                         |
| <b>23 23 16 00-0030 Brass Flare Unions (23 23 16 00-0029)</b>  |                           |                         |
| 23 23 16 00-0031 EA 3/8" Brass Flare Union.....  | 33.19                     | 16.54                   |
| 23 23 16 00-0032 EA 1/2" Brass Flare Union.....  | 33.19                     | 16.54                   |
| 23 23 16 00-0033 EA 5/8" Brass Flare Union.....  | 35.37                     | 16.54                   |
| <b>23 23 16 00-0034 90 Degree Elbow Brass Flare Unions (23 23 16 00-0029)</b>  |                           |                         |
| 23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union .....   | 34.51                     | 16.54                   |
| 23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union .....   | 34.51                     | 16.54                   |
| 23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union .....   | 41.83                     | 16.54                   |
| <b>23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)</b>  |                           |                         |
| 23 23 16 00-0039 EA 3/8" Brass Flare Tee .....   | 53.84                     | 27.56                   |
| 23 23 16 00-0040 EA 1/2" Brass Flare Tee .....   | 57.10                     | 27.56                   |
| 23 23 16 00-0041 EA 5/8" Brass Flare Tee .....   | 74.85                     | 27.56                   |
| <b>23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)</b>   |                           |                         |
| 23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union .....  | 27.19                     | 16.54                   |
| 23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union .....  | 29.37                     | 16.54                   |
| 23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union .....  | 32.48                     | 16.54                   |
| <b>23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)</b>   |                           |                         |
| 23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union .....  | 30.00                     | 16.54                   |
| 23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union .....  | 32.96                     | 16.54                   |
| 23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union .....  | 32.96                     | 16.54                   |
| <b>23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)</b>  |                           |                         |
| 23 23 16 00-0051 EA 3/8" Brass Long Forged Nut .....   | 28.52                     | 16.54                   |
| 23 23 16 00-0052 EA 1/2" Brass Long Forged Nut .....   | 29.37                     | 16.54                   |
| 23 23 16 00-0053 EA 5/8" Brass Long Forged Nut .....   | 38.86                     | 16.54                   |
| <b>23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)</b>   |                           |                         |
| 23 23 16 00-0055 EA 3/8" Brass Short Forged Nut.....   | 27.28                     | 16.54                   |
| 23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....   | 29.25                     | 16.54                   |
| 23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....   | 29.66                     | 16.54                   |
| <b>23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028)</b>   |                           |                         |
| Note: Soldered.  |                           |                         |
| <b>23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058)</b>   |                           |                         |
| Note: C x C  |                           |                         |
| 23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling .....   | 26.68                     | 16.54                   |
| 23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling .....   | 26.33                     | 16.54                   |
| 23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling .....   | 26.85                     | 16.54                   |
| 23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling .....   | 27.77                     | 17.30                   |
| 23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling .....   | 39.00                     | 22.83                   |
| 23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling .....   | 38.66                     | 23.44                   |
| 23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling .....   | 50.71                     | 29.10                   |
| 23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling .....   | 72.24                     | 39.83                   |
| 23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling .....   | 86.65                     | 46.72                   |
| 23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling .....   | 112.51                    | 56.68                   |
| 23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling .....   | 191.20                    | 86.08                   |
| 23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling .....   | 254.48                    | 113.20                  |
| 23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling .....   | 394.26                    | 134.49                  |
| <b>23 23 16 00-0073 ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)</b>  |                           |                         |
| Note: C x C  |                           |                         |
| 23 23 16 00-0074 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....  | 31.37                     | 16.54                   |
| 23 23 16 00-0075 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....  | 31.72                     | 16.54                   |
| 23 23 16 00-0076 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....  | 31.37                     | 16.54                   |
| 23 23 16 00-0077 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....  | 33.86                     | 17.30                   |
| 23 23 16 00-0078 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....  | 48.57                     | 22.83                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

| MINOR                   |            |   |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|------------|---|--|--------------|------------|
| CSI                     | UOM        | DESCRIPTION   |  | UNIT COST    | UNIT COST  |
| 23 23                   | 16 00-0079 | EA  | 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....    | 49.27        | 23.44      |
| 23 23                   | 16 00-0080 | EA  | 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 62.55        | 29.10      |
| 23 23                   | 16 00-0081 | EA  | 1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 79.07        | 39.83      |
| 23 23                   | 16 00-0082 | EA  | 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 100.27       | 46.72      |
| 23 23                   | 16 00-0083 | EA  | 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 139.85       | 56.68      |
| 23 23                   | 16 00-0084 | EA  | 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 238.97       | 86.08      |
| 23 23                   | 16 00-0085 | EA  | 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 307.92       | 113.20     |
| 23 23                   | 16 00-0086 | EA  | 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow ..... | 555.26       | 134.49     |
| <b>23 23 16 00-0087</b> |            | <b>ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)</b> |  |              |            |
| Note: C x C             |            |   |  |              |            |
| 23 23                   | 16 00-0088 | EA  | 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow .....    | 37.23        | 16.54      |
| 23 23                   | 16 00-0089 | EA  | 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....    | 34.13        | 16.54      |
| 23 23                   | 16 00-0090 | EA  | 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow .....    | 36.59        | 16.54      |
| 23 23                   | 16 00-0091 | EA  | 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....    | 36.68        | 17.30      |
| 23 23                   | 16 00-0092 | EA  | 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow .....    | 45.12        | 22.83      |
| 23 23                   | 16 00-0093 | EA  | 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....    | 48.90        | 23.44      |
| 23 23                   | 16 00-0094 | EA  | 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 65.80        | 29.10      |
| 23 23                   | 16 00-0095 | EA  | 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 95.78        | 39.83      |
| 23 23                   | 16 00-0096 | EA  | 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 118.51       | 46.72      |
| 23 23                   | 16 00-0097 | EA  | 2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 212.23       | 56.68      |
| 23 23                   | 16 00-0098 | EA  | 2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 330.59       | 86.08      |
| 23 23                   | 16 00-0099 | EA  | 3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 436.67       | 113.20     |
| 23 23                   | 16 00-0100 | EA  | 4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....  | 916.61       | 134.49     |
| <b>23 23 16 00-0101</b> |            | <b>ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0058)</b>              |  |              |            |
| Note: C x C             |            |   |  |              |            |
| 23 23                   | 16 00-0102 | EA  | 1/4" ACR Wrought Copper 45 Degree Elbow .....                | 41.49        | 16.54      |
| 23 23                   | 16 00-0103 | EA  | 3/8" ACR Wrought Copper 45 Degree Elbow .....                | 37.23        | 16.54      |
| 23 23                   | 16 00-0104 | EA  | 1/2" ACR Wrought Copper 45 Degree Elbow .....                | 35.42        | 16.54      |
| 23 23                   | 16 00-0105 | EA  | 5/8" ACR Wrought Copper 45 Degree Elbow .....                | 30.32        | 17.30      |
| 23 23                   | 16 00-0106 | EA  | 3/4" ACR Wrought Copper 45 Degree Elbow .....                | 53.10        | 22.83      |
| 23 23                   | 16 00-0107 | EA  | 7/8" ACR Wrought Copper 45 Degree Elbow .....                | 42.63        | 23.44      |
| 23 23                   | 16 00-0108 | EA  | 1-1/8" ACR Wrought Copper 45 Degree Elbow .....              | 62.51        | 29.10      |
| 23 23                   | 16 00-0109 | EA  | 1-3/8" ACR Wrought Copper 45 Degree Elbow .....              | 85.08        | 39.83      |
| 23 23                   | 16 00-0110 | EA  | 1-5/8" ACR Wrought Copper 45 Degree Elbow .....              | 100.65       | 46.72      |
| 23 23                   | 16 00-0111 | EA  | 2-1/8" ACR Wrought Copper 45 Degree Elbow .....              | 135.88       | 56.68      |
| 23 23                   | 16 00-0112 | EA  | 2-5/8" ACR Wrought Copper 45 Degree Elbow .....              | 237.64       | 86.08      |
| 23 23                   | 16 00-0113 | EA  | 3-1/8" ACR Wrought Copper 45 Degree Elbow .....              | 321.35       | 113.20     |
| 23 23                   | 16 00-0114 | EA  | 4-1/8" ACR Wrought Copper 45 Degree Elbow .....              | 524.58       | 134.49     |
| <b>23 23 16 00-0115</b> |            | <b>ACR Wrought Copper Tee (23 23 16 00-0058)</b>                          |  |              |            |
| Note: C x C x C         |            |   |  |              |            |
| 23 23                   | 16 00-0116 | EA  | 1/4" ACR Wrought Copper Tee.....                             | 54.67        | 27.56      |
| 23 23                   | 16 00-0117 | EA  | 3/8" ACR Wrought Copper Tee.....                             | 55.42        | 27.56      |
| 23 23                   | 16 00-0118 | EA  | 1/2" ACR Wrought Copper Tee.....                             | 52.64        | 27.56      |
| 23 23                   | 16 00-0119 | EA  | 5/8" ACR Wrought Copper Tee.....                             | 56.02        | 34.77      |
| 23 23                   | 16 00-0120 | EA  | 3/4" ACR Wrought Copper Tee.....                             | 77.82        | 34.77      |
| 23 23                   | 16 00-0121 | EA  | 7/8" ACR Wrought Copper Tee.....                             | 62.48        | 35.23      |
| 23 23                   | 16 00-0122 | EA  | 1-1/8" ACR Wrought Copper Tee .....                          | 99.97        | 46.72      |
| 23 23                   | 16 00-0123 | EA  | 1-3/8" ACR Wrought Copper Tee .....                          | 125.29       | 56.68      |
| 23 23                   | 16 00-0124 | EA  | 1-5/8" ACR Wrought Copper Tee .....                          | 163.08       | 67.25      |
| 23 23                   | 16 00-0125 | EA  | 2-1/8" ACR Wrought Copper Tee .....                          | 231.53       | 89.61      |
| 23 23                   | 16 00-0126 | EA  | 2-5/8" ACR Wrought Copper Tee .....                          | 489.22       | 195.61     |
| 23 23                   | 16 00-0127 | EA  | 3-1/8" ACR Wrought Copper Tee .....                          | 603.73       | 215.06     |
| 23 23                   | 16 00-0128 | EA  | 4-1/8" ACR Wrought Copper Tee .....                          | 1,039.00     | 238.96     |
| <b>23 23 16 00-0129</b> |            | <b>ACR Wrought Copper Male Adapter (23 23 16 00-0058)</b>                 |  |              |            |
| Note: C x M             |            |   |  |              |            |
| 23 23                   | 16 00-0130 | EA  | 1/4" ACR Wrought Copper Male Adapter .....                   | 45.72        | 16.54      |
| 23 23                   | 16 00-0131 | EA  | 3/8" ACR Wrought Copper Male Adapter .....                   | 52.53        | 16.54      |
| 23 23                   | 16 00-0132 | EA  | 1/2" ACR Wrought Copper Male Adapter .....                   | 41.22        | 16.54      |
| <b>23 23 16 00-0133</b> |            | <b>ACR Wrought Copper Female Adapter (23 23 16 00-0058)</b>               |  |              |            |
| Note: C x F             |            |   |  |              |            |
| 23 23                   | 16 00-0134 | EA  | 1/4" ACR Wrought Copper Female Adapter .....                 | 43.05        | 16.54      |
| 23 23                   | 16 00-0135 | EA  | 3/8" ACR Wrought Copper Female Adapter .....                 | 39.14        | 16.54      |
| 23 23                   | 16 00-0136 | EA  | 1/2" ACR Wrought Copper Female Adapter .....                 | 40.62        | 16.54      |
| <b>23 23 16 00-0137</b> |            | <b>ACR Wrought Copper Cap (23 23 16 00-0058)</b>                          |  |              |            |
| Note: C                 |            |   |  |              |            |
| 23 23                   | 16 00-0138 | EA  | 1/4" ACR Wrought Copper Cap .....                            | 19.75        | 11.03      |
| 23 23                   | 16 00-0139 | EA  | 3/8" ACR Wrought Copper Cap .....                            | 18.52        | 11.03      |
| 23 23                   | 16 00-0140 | EA  | 1/2" ACR Wrought Copper Cap .....                            | 19.72        | 11.03      |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like ACR Wrought Copper P-Trap, Sight Glass With Moisture And Liquid Indicator, Filter Driers, Solder Connections, Replaceable Core Type Filter Driers, Sealed In-Line Filter Driers, Bi-Flow Filter Driers, Refrigerant Compressor Discharge Mufflers, Expansion Valves And Vibration Absorbers, Thermostatic Expansion Valves.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 23 16 00-0204 Electric Expansion Valves</b> <small>(23 23 16 00-0197)</small>  |                           |                         |
| Note: Sporlan SEI or SEH.  |                           |                         |
| 23 23 16 00-0205 EA 1/2 To 11 Ton Electric Expansion Valve .....<br>Note: Sporlan SEI.   | 632.78                    | 17.62                   |
| 23 23 16 00-0206 EA 25 Ton Electric Expansion Valve .....<br>Note: Sporlan SEI.  | 729.36                    | 18.34                   |
| 23 23 16 00-0207 EA 50 Ton Electric Expansion Valve .....<br>Note: Sporlan SEI.  | 826.46                    | 19.04                   |
| 23 23 16 00-0208 EA 100 Ton Electric Expansion Valve .....<br>Note: Sporlan SEH.   | 977.54                    | 19.04                   |
| 23 23 16 00-0209 EA 175 Ton Electric Expansion Valve .....<br>Note: Sporlan SEH.   | 1,098.78                  | 19.75                   |
| <b>23 23 16 00-0210 Braided Stainless Steel Over Copper Vibration Absorber</b> <small>(23 23 16 00-0197)</small>   |                           |                         |
| 23 23 16 00-0211 EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 70.95                     | 18.34                   |
| 23 23 16 00-0212 EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 73.39                     | 21.16                   |
| 23 23 16 00-0213 EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 94.46                     | 26.80                   |
| 23 23 16 00-0214 EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 103.10                    | 32.44                   |
| 23 23 16 00-0215 EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 122.08                    | 39.50                   |
| 23 23 16 00-0216 EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 140.70                    | 45.13                   |
| 23 23 16 00-0217 EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 200.52                    | 16.92                   |
| 23 23 16 00-0218 EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 277.16                    | 18.34                   |
| 23 23 16 00-0219 EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 342.43                    | 18.34                   |
| 23 23 16 00-0220 EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 459.57                    | 19.75                   |
| 23 23 16 00-0221 EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 769.56                    | 21.16                   |
| 23 23 16 00-0222 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....  | 1,004.66                  | 21.16                   |
| <b>23 23 16 00-0223 Accumulator, Refrigerant Suction Line</b> <small>(23 23 16)</small>  |                           |                         |
| 23 23 16 00-0224 EA 3/4" Accumulator, Refrigeration Suction Line.....  | 229.55                    | 64.17                   |
| 23 23 16 00-0225 EA 7/8" Accumulator, Refrigeration Suction Line.....  | 311.65                    | 88.14                   |
| 23 23 16 00-0226 EA 1-1/8" Accumulator, Refrigeration Suction Line.....  | 376.74                    | 117.49                  |
| 23 23 16 00-0227 EA 1 3/8" Accumulator, Refrigeration Suction Line.....  | 520.77                    | 141.04                  |
| 23 23 16 00-0228 EA 1-5/8" Accumulator, Refrigeration Suction Line.....  | 710.34                    | 176.30                  |
| 23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line.....  | 1,066.71                  | 235.11                  |
| <b>23 23 16 00-0230 Special Chemicals/Component</b> <small>(23 23 16)</small>  |                           |                         |
| 23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100%.....   | 41.86                     |                         |
| 23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....  | 10.94                     |                         |
| 23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100%.....  | 28.72                     |                         |
| 23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush .....<br>Note: Up to 10 ton AC system.  | 379.59                    |                         |
| <b>23 23 23 Refrigerants</b> <small>(23 23)</small>  |                           |                         |
| <b>23 23 23 00-0001 Refrigerant</b> <small>(23 23 23)</small>  |                           |                         |
| 23 23 23 00-0002 LB R-113 Refrigerant.....   | 42.98                     |                         |
| 23 23 23 00-0003 LB R-123 Refrigerant.....   | 31.53                     |                         |
| 23 23 23 00-0004 LB R-134A Refrigerant.....  | 11.24                     |                         |
| 23 23 23 00-0005 LB R-404A Refrigerant.....  | 20.11                     |                         |
| 23 23 23 00-0006 LB R-407C Refrigerant.....  | 19.89                     |                         |
| 23 23 23 00-0007 LB R-408A Refrigerant.....  | 45.35                     |                         |
| 23 23 23 00-0008 LB R-410A Refrigerant.....  | 19.49                     |                         |
| 23 23 23 00-0009 LB R-500 Refrigerant.....   | 38.53                     |                         |
| 23 23 23 00-0010 LB R-507 Refrigerant.....   | 12.40                     |                         |
| <b>23 25 HVAC Water Treatment</b> <small>(23 20)</small>   |                           |                         |
| <b>23 25 13 Water Treatment for Closed-Loop Hydronic Systems</b> <small>(23 25)</small>  |                           |                         |
| <b>23 25 13 00-0001 Polyethylene Chemical Storage Tanks</b> <small>(23 25 13)</small>  |                           |                         |
| 23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene.....   | 566.45                    | 117.80                  |
| <b>23 25 13 00-0003 Gas Chlorinator</b> <small>(23 25 13)</small>  |                           |                         |
| 23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply<br>Indicator, Rate Valve, And Diffuser-Ejector Unit..... | 1,422.05                  | 535.96                  |
| <i>For Booster Pump, Add</i>   | 584.92                    |                         |
| 23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply<br>Indicator, Rate Valve, And Diffuser-Ejector Unit..... | 1,624.90                  | 612.52                  |
| <i>For Booster Pump, Add</i>   | 668.64                    |                         |
| 23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply<br>Indicator, Rate Valve, And Diffuser-Ejector Unit..... | 2,165.22                  | 463.98                  |
| <i>For Booster Pump, Add</i>   | 804.29                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 25 13 00-0007 Bypass Shot Feeders <sup>(23 25 13)</sup><br>Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves. |                           |                         |
| 23 25 13 00-0008 In Line Mount, 125 PSIG <sup>(23 25 13 00-0007)</sup>   |                           |                         |
| 23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG .....   | 1,355.47                  | 399.14                  |
| 23 25 13 00-0010 Floor Mount, 175 PSIG <sup>(23 25 13 00-0007)</sup>   |                           |                         |
| 23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....   | 2,003.76                  | 600.83                  |
| 23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....  | 2,644.86                  | 795.46                  |
| 23 25 13 00-0013 Floor Mount, 150 LB ASME Code <sup>(23 25 13 00-0007)</sup>   |                           |                         |
| 23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....   | 2,003.76                  | 600.83                  |
| 23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code .....   | 2,644.86                  | 795.46                  |
| 23 25 13 00-0016 Floor Mount, 300 LB ASME Code <sup>(23 25 13 00-0007)</sup>   |                           |                         |
| 23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code .....  | 2,388.47                  | 600.83                  |
| 23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code .....   | 3,044.33                  | 795.46                  |

**23 30 HVAC Air Distribution** <sup>(23)</sup>

**23 31 HVAC Ducts and Casings** <sup>(23 30)</sup>

Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See CSI section 23 05 29 00-0001 for threaded rod.

**23 31 13 Metal Ducts** <sup>(23 31)</sup>

**23 31 13 13 Rectangular Metal Ducts** <sup>(23 31 13)</sup>

**23 31 13 13-0001 Steel Sheet Metal Duct** <sup>(23 31 13 13)</sup>

Note: Includes all fittings, transitions, collars, straps, support straps, fabrication, installation and sealing the joints by tape, mastic, or spray on sealer. Duct Sealing: Class-C requires sealing transverse joints; Class-B requires sealing all transverse joint and longitudinal seams; Class-A requires sealing all transverse joints longitudinal seams and duct wall penetrations.

**23 31 13 13-0002 Galvanized Steel Sheet Metal Ductwork And Sealant** <sup>(23 31 13 13-0001)</sup>

Note: SMACNA weight for galvanized steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.906 LB/SF; 24 gauge - 1.156 LB/SF; 22 gauge - 1.406 LB/SF; 20 gauge - 1.656 LB/SF; 18 gauge - 2.156 LB/SF; 16 gauge - 2.656 LB/SF

|  |       |      |
|--|-------|------|
| 23 31 13 13-0003 LB Seal Class C, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork ..... | 13.86 | 3.76 |
| For Polyvinyl Chloride (PVC) Coated, Add   | 0.46  |      |
| For Up To 200, Add   | 4.85  |      |
| For >200 To 500, Add   | 3.07  |      |
| For >500 To 1,000, Add   | 2.10  |      |
| For >1,000 To 2,000, Add   | 1.18  |      |
| For >2,000 To 5,000, Add   | 0.53  |      |
| For Work In Restricted Working Space, Add  | 3.47  |      |
| For Elevated Installation >10' To 15', Add   | 0.69  |      |
| For Elevated Installation >15' To 20', Add   | 1.39  |      |
| For Elevated Installation >20' To 25', Add   | 1.74  |      |
| For Elevated Installation >25' To 30', Add   | 2.43  |      |
| For Elevated Installation >30' To 35', Add   | 2.78  |      |
| For Elevated Installation >35' To 40', Add   | 3.47  |      |
| For Elevated Installation >40', Add  | 3.82  |      |
| 23 31 13 13-0004 LB Seal Class B, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....  | 15.84 | 3.76 |
| For Polyvinyl Chloride (PVC) Coated, Add   | 0.51  |      |
| For Up To 200, Add   | 5.51  |      |
| For >200 To 500, Add   | 3.48  |      |
| For >500 To 1,000, Add   | 2.39  |      |
| For >1,000 To 2,000, Add   | 1.34  |      |
| For >2,000 To 5,000, Add   | 0.61  |      |
| For Work In Restricted Working Space, Add  | 3.99  |      |
| For Elevated Installation >10' To 15', Add   | 0.80  |      |
| For Elevated Installation >15' To 20', Add   | 1.60  |      |
| For Elevated Installation >20' To 25', Add   | 2.00  |      |
| For Elevated Installation >25' To 30', Add   | 2.80  |      |
| For Elevated Installation >30' To 35', Add   | 3.19  |      |
| For Elevated Installation >35' To 40', Add   | 3.99  |      |
| For Elevated Installation >40', Add  | 4.39  |      |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 23 31 13 | 13-0005 | LB  | Seal Class A, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....   | 18.97                  | 3.76                 |
|          |         |     | <i>For Polyvinyl Chloride (PVC) Coated, Add</i>   | 0.55                   |                      |
|          |         |     | <i>For Up To 200, Add</i>   | 6.52                   |                      |
|          |         |     | <i>For &gt;200 To 500, Add</i>  | 4.11                   |                      |
|          |         |     | <i>For &gt;500 To 1,000, Add</i>  | 2.85                   |                      |
|          |         |     | <i>For &gt;1,000 To 2,000, Add</i>  | 1.60                   |                      |
|          |         |     | <i>For &gt;2,000 To 5,000, Add</i>  | 0.73                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 4.86                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 0.97                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 1.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 3.40                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 3.89                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 4.86                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 5.35                   |                      |
| 23 31 13 | 13-0006 |     | <b>Alloy 3003-H14, Aluminum Sheet Metal Ductwork</b> <small>(23 31 13 13-0001)</small>  |                        |                      |
|          |         |     | Note: SMACNA weight for aluminum ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.224 LB/SF; 24 gauge - 0.282 LB/SF; 22 gauge - 0.352 LB/SF; 20 gauge - 0.451 LB/SF; 18 gauge - 0.563 LB/SF; 16 gauge - 0.718 LB/SF; 14 gauge - 0.901 LB/SF; 12 gauge - 0.141 LB/SF        |                        |                      |
| 23 31 13 | 13-0007 | LB  | Seal Class C, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....  | 27.00                  | 3.76                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 6.86                   |                      |
|          |         |     | <i>For Up To 200, Add</i>   | 9.34                   |                      |
|          |         |     | <i>For &gt;200 To 500, Add</i>  | 5.89                   |                      |
|          |         |     | <i>For &gt;500 To 1,000, Add</i>  | 4.07                   |                      |
|          |         |     | <i>For &gt;1,000 To 2,000, Add</i>  | 2.28                   |                      |
|          |         |     | <i>For &gt;2,000 To 5,000, Add</i>  | 1.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.37                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 3.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 4.80                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 5.49                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 6.86                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 7.55                   |                      |
| 23 31 13 | 13-0008 | LB  | Seal Class B, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....  | 30.67                  | 3.76                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 7.89                   |                      |
|          |         |     | <i>For Up To 200, Add</i>   | 10.51                  |                      |
|          |         |     | <i>For &gt;200 To 500, Add</i>  | 6.61                   |                      |
|          |         |     | <i>For &gt;500 To 1,000, Add</i>  | 4.60                   |                      |
|          |         |     | <i>For &gt;1,000 To 2,000, Add</i>  | 2.58                   |                      |
|          |         |     | <i>For &gt;2,000 To 5,000, Add</i>  | 1.18                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.58                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.16                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 3.95                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 5.52                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 6.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 7.89                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 8.68                   |                      |
| 23 31 13 | 13-0009 | LB  | Seal Class A, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....  | 36.62                  | 3.76                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.60                   |                      |
|          |         |     | <i>For Up To 200, Add</i>   | 12.37                  |                      |
|          |         |     | <i>For &gt;200 To 500, Add</i>  | 7.74                   |                      |
|          |         |     | <i>For &gt;500 To 1,000, Add</i>  | 5.45                   |                      |
|          |         |     | <i>For &gt;1,000 To 2,000, Add</i>  | 3.07                   |                      |
|          |         |     | <i>For &gt;2,000 To 5,000, Add</i>  | 1.42                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.92                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 4.80                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 6.72                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 7.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 9.60                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 10.56                  |                      |
| 23 31 13 | 13-0010 |     | <b>Type 304, Stainless Steel Sheet Metal Ductwork</b> <small>(23 31 13 13-0001)</small>   |                        |                      |
|          |         |     | Note: SMACNA weight for stainless steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.748 LB/SF; 24 gauge - 0.987 LB/SF; 22 gauge - 1.231 LB/SF; 20 gauge - 1.491 LB/SF; 18 gauge - 2.016 LB/SF; 16 gauge - 2.499 LB/SF; 14 gauge - 3.154 LB/SF; 12 gauge - 4.427 LB/SF |                        |                      |
| 23 31 13 | 13-0011 | LB  | Seal Class C, Type 304, Stainless Steel Sheet Metal Ductwork.....   | 19.54                  | 5.00                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Welded Seams, Add</i>  | 7.30                   |                      |
|          |         |     | <i>For Up To 200, Add</i>   | 7.51                   |                      |
|          |         |     | <i>For &gt;200 To 500, Add</i>  | 4.89                   |                      |
|          |         |     | <i>For &gt;500 To 1,000, Add</i>  | 3.12                   |                      |
|          |         |     | <i>For &gt;1,000 To 2,000, Add</i>  | 1.73                   |                      |
|          |         |     | <i>For &gt;2,000 To 5,000, Add</i>  | 0.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 0.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 1.69                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.11                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 2.95                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 3.37                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 4.64                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 13-0012 LB Seal Class B, Type 304, Stainless Steel Sheet Metal Ductwork.....   | 22.68                     | 5.00                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.09                      |                         |
| <i>For Welded Seams, Add</i>  | 8.76                      |                         |
| <i>For Up To 200, Add</i>   | 8.52                      |                         |
| <i>For &gt;200 To 500, Add</i>  | 5.51                      |                         |
| <i>For &gt;500 To 1,000, Add</i>  | 3.58                      |                         |
| <i>For &gt;1,000 To 2,000, Add</i>  | 1.99                      |                         |
| <i>For &gt;2,000 To 5,000, Add</i>  | 0.85                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.02                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.03                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.54                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 3.56                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 4.07                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 5.09                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 5.59                      |                         |
| 23 31 13 13-0013 LB Seal Class A, Type 304, Stainless Steel Sheet Metal Ductwork.....   | 25.64                     | 5.00                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.90                      |                         |
| <i>For Welded Seams, Add</i>  | 10.13                     |                         |
| <i>For Up To 200, Add</i>   | 9.48                      |                         |
| <i>For &gt;200 To 500, Add</i>  | 6.11                      |                         |
| <i>For &gt;500 To 1,000, Add</i>  | 4.01                      |                         |
| <i>For &gt;1,000 To 2,000, Add</i>  | 2.23                      |                         |
| <i>For &gt;2,000 To 5,000, Add</i>  | 0.97                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.18                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.36                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.95                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 4.13                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 4.72                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 5.90                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 6.49                      |                         |
| <b>23 31 13 13-0014 Galvanized Steel Sheet Metal Ductwork By LF</b> <small>(23 31 13 13-0001)</small>   |                           |                         |
| Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer. |                           |                         |
| <b>23 31 13 13-0015 30 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small>  |                           |                         |
| 23 31 13 13-0016 LF 4" x 4", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 14.74                     | 7.72                    |
| <i>For Seal Class B, Add</i>  | 1.93                      |                         |
| <i>For Seal Class A, Add</i>  | 4.12                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 3.87                      |                         |
| 23 31 13 13-0017 LF 4" x 6", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 18.40                     | 9.66                    |
| <i>For Seal Class B, Add</i>  | 2.42                      |                         |
| <i>For Seal Class A, Add</i>  | 5.15                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 4.83                      |                         |
| 23 31 13 13-0018 LF 4" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 22.10                     | 11.60                   |
| <i>For Seal Class B, Add</i>  | 2.90                      |                         |
| <i>For Seal Class A, Add</i>  | 6.18                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 5.80                      |                         |
| 23 31 13 13-0019 LF 4" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 25.77                     | 13.52                   |
| <i>For Seal Class B, Add</i>  | 3.38                      |                         |
| <i>For Seal Class A, Add</i>  | 7.21                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 6.76                      |                         |
| 23 31 13 13-0020 LF 4" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 29.46                     | 15.46                   |
| <i>For Seal Class B, Add</i>  | 3.86                      |                         |
| <i>For Seal Class A, Add</i>  | 8.24                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.73                      |                         |
| 23 31 13 13-0021 LF 4" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 33.14                     | 17.39                   |
| <i>For Seal Class B, Add</i>  | 4.35                      |                         |
| <i>For Seal Class A, Add</i>  | 9.27                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.69                      |                         |
| 23 31 13 13-0022 LF 4" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 36.82                     | 19.32                   |
| <i>For Seal Class B, Add</i>  | 4.83                      |                         |
| <i>For Seal Class A, Add</i>  | 10.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 9.66                      |                         |
| 23 31 13 13-0023 LF 6" x 6", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 22.10                     | 11.60                   |
| <i>For Seal Class B, Add</i>  | 2.90                      |                         |
| <i>For Seal Class A, Add</i>  | 6.18                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 5.80                      |                         |
| 23 31 13 13-0024 LF 6" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 25.77                     | 13.52                   |
| <i>For Seal Class B, Add</i>  | 3.38                      |                         |
| <i>For Seal Class A, Add</i>  | 7.21                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 6.76                      |                         |
| 23 31 13 13-0025 LF 6" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 29.46                     | 15.46                   |
| <i>For Seal Class B, Add</i>  | 3.86                      |                         |
| <i>For Seal Class A, Add</i>  | 8.24                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 7.73                      |                         |
| 23 31 13 13-0026 LF 6" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 33.14                     | 17.39                   |
| <i>For Seal Class B, Add</i>  | 4.35                      |                         |
| <i>For Seal Class A, Add</i>  | 9.27                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.69                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0027 LF 6" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 36.82                     | 19.32                   |
| For Seal Class B, Add  | 4.83                      |                         |
| For Seal Class A, Add  | 10.31                     |                         |
| For Work In Restricted Working Space, Add  | 9.66                      |                         |
| 23 31 13 13-0028 LF 6" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 40.50                     | 21.25                   |
| For Seal Class B, Add  | 5.31                      |                         |
| For Seal Class A, Add  | 11.33                     |                         |
| For Work In Restricted Working Space, Add  | 10.63                     |                         |
| 23 31 13 13-0029 LF 8" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 29.46                     | 15.46                   |
| For Seal Class B, Add  | 3.86                      |                         |
| For Seal Class A, Add  | 8.24                      |                         |
| For Work In Restricted Working Space, Add  | 7.73                      |                         |
| 23 31 13 13-0030 LF 8" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 33.14                     | 17.39                   |
| For Seal Class B, Add  | 4.35                      |                         |
| For Seal Class A, Add  | 9.27                      |                         |
| For Work In Restricted Working Space, Add  | 8.69                      |                         |
| 23 31 13 13-0031 LF 8" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 36.82                     | 19.32                   |
| For Seal Class B, Add  | 4.83                      |                         |
| For Seal Class A, Add  | 10.31                     |                         |
| For Work In Restricted Working Space, Add  | 9.66                      |                         |
| 23 31 13 13-0032 LF 8" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 40.50                     | 21.25                   |
| For Seal Class B, Add  | 5.31                      |                         |
| For Seal Class A, Add  | 11.33                     |                         |
| For Work In Restricted Working Space, Add  | 10.63                     |                         |
| 23 31 13 13-0033 LF 8" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 44.17                     | 23.18                   |
| For Seal Class B, Add  | 5.80                      |                         |
| For Seal Class A, Add  | 12.36                     |                         |
| For Work In Restricted Working Space, Add  | 11.59                     |                         |
| 23 31 13 13-0034 LF 8" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 47.88                     | 25.12                   |
| For Seal Class B, Add  | 6.28                      |                         |
| For Seal Class A, Add  | 13.40                     |                         |
| For Work In Restricted Working Space, Add  | 12.56                     |                         |
| 23 31 13 13-0035 LF 8" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 51.54                     | 27.05                   |
| For Seal Class B, Add  | 6.76                      |                         |
| For Seal Class A, Add  | 14.43                     |                         |
| For Work In Restricted Working Space, Add  | 13.52                     |                         |
| 23 31 13 13-0036 LF 8" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 55.23                     | 28.98                   |
| For Seal Class B, Add  | 7.25                      |                         |
| For Seal Class A, Add  | 15.46                     |                         |
| For Work In Restricted Working Space, Add  | 14.49                     |                         |
| 23 31 13 13-0037 LF 8" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 58.89                     | 30.92                   |
| For Seal Class B, Add  | 7.73                      |                         |
| For Seal Class A, Add  | 16.48                     |                         |
| For Work In Restricted Working Space, Add  | 15.45                     |                         |
| 23 31 13 13-0038 LF 10" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 36.82                     | 19.32                   |
| For Seal Class B, Add  | 4.83                      |                         |
| For Seal Class A, Add  | 10.31                     |                         |
| For Work In Restricted Working Space, Add  | 9.66                      |                         |
| 23 31 13 13-0039 LF 10" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 40.50                     | 21.25                   |
| For Seal Class B, Add  | 5.31                      |                         |
| For Seal Class A, Add  | 11.33                     |                         |
| For Work In Restricted Working Space, Add  | 10.63                     |                         |
| 23 31 13 13-0040 LF 10" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 44.17                     | 23.18                   |
| For Seal Class B, Add  | 5.80                      |                         |
| For Seal Class A, Add  | 12.36                     |                         |
| For Work In Restricted Working Space, Add  | 11.59                     |                         |
| 23 31 13 13-0041 LF 10" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 47.88                     | 25.12                   |
| For Seal Class B, Add  | 6.28                      |                         |
| For Seal Class A, Add  | 13.40                     |                         |
| For Work In Restricted Working Space, Add  | 12.56                     |                         |
| 23 31 13 13-0042 LF 10" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 51.54                     | 27.05                   |
| For Seal Class B, Add  | 6.76                      |                         |
| For Seal Class A, Add  | 14.43                     |                         |
| For Work In Restricted Working Space, Add  | 13.52                     |                         |
| 23 31 13 13-0043 LF 10" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 55.23                     | 28.98                   |
| For Seal Class B, Add  | 7.25                      |                         |
| For Seal Class A, Add  | 15.46                     |                         |
| For Work In Restricted Working Space, Add  | 14.49                     |                         |
| 23 31 13 13-0044 LF 10" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 58.89                     | 30.92                   |
| For Seal Class B, Add  | 7.73                      |                         |
| For Seal Class A, Add  | 16.48                     |                         |
| For Work In Restricted Working Space, Add  | 15.45                     |                         |
| 23 31 13 13-0045 LF 10" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 62.61                     | 32.85                   |
| For Seal Class B, Add  | 8.21                      |                         |
| For Seal Class A, Add  | 17.52                     |                         |
| For Work In Restricted Working Space, Add  | 16.43                     |                         |
| 23 31 13 13-0046 LF 12" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 44.17                     | 23.18                   |
| For Seal Class B, Add  | 5.80                      |                         |
| For Seal Class A, Add  | 12.36                     |                         |
| For Work In Restricted Working Space, Add  | 11.59                     |                         |
| 23 31 13 13-0047 LF 12" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 47.88                     | 25.12                   |
| For Seal Class B, Add  | 6.28                      |                         |
| For Seal Class A, Add  | 13.40                     |                         |
| For Work In Restricted Working Space, Add  | 12.56                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0048 LF 12" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 51.54                     | 27.05                   |
| For Seal Class B, Add  | 6.76                      |                         |
| For Seal Class A, Add  | 14.43                     |                         |
| For Work In Restricted Working Space, Add  | 13.52                     |                         |
| 23 31 13 13-0049 LF 12" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 55.23                     | 28.98                   |
| For Seal Class B, Add  | 7.25                      |                         |
| For Seal Class A, Add  | 15.46                     |                         |
| For Work In Restricted Working Space, Add  | 14.49                     |                         |
| 23 31 13 13-0050 LF 12" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 58.89                     | 30.92                   |
| For Seal Class B, Add  | 7.73                      |                         |
| For Seal Class A, Add  | 16.48                     |                         |
| For Work In Restricted Working Space, Add  | 15.45                     |                         |
| 23 31 13 13-0051 LF 12" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 62.61                     | 32.85                   |
| For Seal Class B, Add  | 8.21                      |                         |
| For Seal Class A, Add  | 17.52                     |                         |
| For Work In Restricted Working Space, Add  | 16.43                     |                         |
| 23 31 13 13-0052 LF 12" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 66.28                     | 34.78                   |
| For Seal Class B, Add  | 8.70                      |                         |
| For Seal Class A, Add  | 18.55                     |                         |
| For Work In Restricted Working Space, Add  | 17.39                     |                         |
| 23 31 13 13-0053 LF 14" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 51.54                     | 27.05                   |
| For Seal Class B, Add  | 6.76                      |                         |
| For Seal Class A, Add  | 14.43                     |                         |
| For Work In Restricted Working Space, Add  | 13.52                     |                         |
| 23 31 13 13-0054 LF 14" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 55.23                     | 28.98                   |
| For Seal Class B, Add  | 7.25                      |                         |
| For Seal Class A, Add  | 15.46                     |                         |
| For Work In Restricted Working Space, Add  | 14.49                     |                         |
| 23 31 13 13-0055 LF 14" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 58.89                     | 30.92                   |
| For Seal Class B, Add  | 7.73                      |                         |
| For Seal Class A, Add  | 16.48                     |                         |
| For Work In Restricted Working Space, Add  | 15.45                     |                         |
| 23 31 13 13-0056 LF 14" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 62.61                     | 32.85                   |
| For Seal Class B, Add  | 8.21                      |                         |
| For Seal Class A, Add  | 17.52                     |                         |
| For Work In Restricted Working Space, Add  | 16.43                     |                         |
| 23 31 13 13-0057 LF 14" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 66.28                     | 34.78                   |
| For Seal Class B, Add  | 8.70                      |                         |
| For Seal Class A, Add  | 18.55                     |                         |
| For Work In Restricted Working Space, Add  | 17.39                     |                         |
| 23 31 13 13-0058 LF 14" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 69.97                     | 36.71                   |
| For Seal Class B, Add  | 9.18                      |                         |
| For Seal Class A, Add  | 19.58                     |                         |
| For Work In Restricted Working Space, Add  | 18.36                     |                         |
| 23 31 13 13-0059 LF 16" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 58.89                     | 30.92                   |
| For Seal Class B, Add  | 7.73                      |                         |
| For Seal Class A, Add  | 16.48                     |                         |
| For Work In Restricted Working Space, Add  | 15.45                     |                         |
| 23 31 13 13-0060 LF 16" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 62.61                     | 32.85                   |
| For Seal Class B, Add  | 8.21                      |                         |
| For Seal Class A, Add  | 17.52                     |                         |
| For Work In Restricted Working Space, Add  | 16.43                     |                         |
| 23 31 13 13-0061 LF 16" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 66.28                     | 34.78                   |
| For Seal Class B, Add  | 8.70                      |                         |
| For Seal Class A, Add  | 18.55                     |                         |
| For Work In Restricted Working Space, Add  | 17.39                     |                         |
| 23 31 13 13-0062 LF 16" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 69.97                     | 36.71                   |
| For Seal Class B, Add  | 9.18                      |                         |
| For Seal Class A, Add  | 19.58                     |                         |
| For Work In Restricted Working Space, Add  | 18.36                     |                         |
| 23 31 13 13-0063 LF 16" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 73.64                     | 38.64                   |
| For Seal Class B, Add  | 9.66                      |                         |
| For Seal Class A, Add  | 20.61                     |                         |
| For Work In Restricted Working Space, Add  | 19.32                     |                         |
| 23 31 13 13-0064 LF 18" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 66.28                     | 34.78                   |
| For Seal Class B, Add  | 8.70                      |                         |
| For Seal Class A, Add  | 18.55                     |                         |
| For Work In Restricted Working Space, Add  | 17.39                     |                         |
| 23 31 13 13-0065 LF 18" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 69.97                     | 36.71                   |
| For Seal Class B, Add  | 9.18                      |                         |
| For Seal Class A, Add  | 19.58                     |                         |
| For Work In Restricted Working Space, Add  | 18.36                     |                         |
| 23 31 13 13-0066 LF 18" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 73.64                     | 38.64                   |
| For Seal Class B, Add  | 9.66                      |                         |
| For Seal Class A, Add  | 20.61                     |                         |
| For Work In Restricted Working Space, Add  | 19.32                     |                         |
| 23 31 13 13-0067 LF 18" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 77.31                     | 40.57                   |
| For Seal Class B, Add  | 10.14                     |                         |
| For Seal Class A, Add  | 21.64                     |                         |
| For Work In Restricted Working Space, Add  | 20.29                     |                         |
| 23 31 13 13-0068 LF 20" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 73.64                     | 38.64                   |
| For Seal Class B, Add  | 9.66                      |                         |
| For Seal Class A, Add  | 20.61                     |                         |
| For Work In Restricted Working Space, Add  | 19.32                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0069 LF 20" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 77.31                     | 40.57                   |
| For Seal Class B, Add  | 10.14                     |                         |
| For Seal Class A, Add  | 21.64                     |                         |
| For Work In Restricted Working Space, Add  | 20.29                     |                         |
| 23 31 13 13-0070 LF 20" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 81.00                     | 42.50                   |
| For Seal Class B, Add  | 10.63                     |                         |
| For Seal Class A, Add  | 22.67                     |                         |
| For Work In Restricted Working Space, Add  | 21.25                     |                         |
| 23 31 13 13-0071 LF 22" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 81.00                     | 42.50                   |
| For Seal Class B, Add  | 10.63                     |                         |
| For Seal Class A, Add  | 22.67                     |                         |
| For Work In Restricted Working Space, Add  | 21.25                     |                         |
| 23 31 13 13-0072 LF 22" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 84.67                     | 44.44                   |
| For Seal Class B, Add  | 11.11                     |                         |
| For Seal Class A, Add  | 23.70                     |                         |
| For Work In Restricted Working Space, Add  | 22.22                     |                         |
| 23 31 13 13-0073 LF 24" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 88.38                     | 46.37                   |
| For Seal Class B, Add  | 11.59                     |                         |
| For Seal Class A, Add  | 24.73                     |                         |
| For Work In Restricted Working Space, Add  | 23.19                     |                         |
| <b>23 31 13 13-0074 28 Gauge Galvanized Steel Metal Ductwork</b> (23 31 13 13-0014)                |                           |                         |
| 23 31 13 13-0075 LF 4" x 4", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 17.53                     | 9.20                    |
| For Seal Class B, Add  | 2.30                      |                         |
| For Seal Class A, Add  | 4.91                      |                         |
| For Work In Restricted Working Space, Add  | 4.60                      |                         |
| 23 31 13 13-0076 LF 4" x 6", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 21.93                     | 11.50                   |
| For Seal Class B, Add  | 2.88                      |                         |
| For Seal Class A, Add  | 6.13                      |                         |
| For Work In Restricted Working Space, Add  | 5.75                      |                         |
| 23 31 13 13-0077 LF 4" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 26.31                     | 13.80                   |
| For Seal Class B, Add  | 3.45                      |                         |
| For Seal Class A, Add  | 7.36                      |                         |
| For Work In Restricted Working Space, Add  | 6.90                      |                         |
| 23 31 13 13-0078 LF 4" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 30.67                     | 16.10                   |
| For Seal Class B, Add  | 4.02                      |                         |
| For Seal Class A, Add  | 8.59                      |                         |
| For Work In Restricted Working Space, Add  | 8.05                      |                         |
| 23 31 13 13-0079 LF 4" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 35.07                     | 18.41                   |
| For Seal Class B, Add  | 4.60                      |                         |
| For Seal Class A, Add  | 9.81                      |                         |
| For Work In Restricted Working Space, Add  | 9.20                      |                         |
| 23 31 13 13-0080 LF 4" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 39.45                     | 20.70                   |
| For Seal Class B, Add  | 5.18                      |                         |
| For Seal Class A, Add  | 11.04                     |                         |
| For Work In Restricted Working Space, Add  | 10.35                     |                         |
| 23 31 13 13-0081 LF 4" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 43.83                     | 23.01                   |
| For Seal Class B, Add  | 5.75                      |                         |
| For Seal Class A, Add  | 12.27                     |                         |
| For Work In Restricted Working Space, Add  | 11.50                     |                         |
| 23 31 13 13-0082 LF 6" x 6", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 26.31                     | 13.80                   |
| For Seal Class B, Add  | 3.45                      |                         |
| For Seal Class A, Add  | 7.36                      |                         |
| For Work In Restricted Working Space, Add  | 6.90                      |                         |
| 23 31 13 13-0083 LF 6" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 30.67                     | 16.10                   |
| For Seal Class B, Add  | 4.02                      |                         |
| For Seal Class A, Add  | 8.59                      |                         |
| For Work In Restricted Working Space, Add  | 8.05                      |                         |
| 23 31 13 13-0084 LF 6" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 35.07                     | 18.41                   |
| For Seal Class B, Add  | 4.60                      |                         |
| For Seal Class A, Add  | 9.81                      |                         |
| For Work In Restricted Working Space, Add  | 9.20                      |                         |
| 23 31 13 13-0085 LF 6" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 39.45                     | 20.70                   |
| For Seal Class B, Add  | 5.18                      |                         |
| For Seal Class A, Add  | 11.04                     |                         |
| For Work In Restricted Working Space, Add  | 10.35                     |                         |
| 23 31 13 13-0086 LF 6" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 43.83                     | 23.01                   |
| For Seal Class B, Add  | 5.75                      |                         |
| For Seal Class A, Add  | 12.27                     |                         |
| For Work In Restricted Working Space, Add  | 11.50                     |                         |
| 23 31 13 13-0087 LF 6" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 48.23                     | 25.30                   |
| For Seal Class B, Add  | 6.33                      |                         |
| For Seal Class A, Add  | 13.50                     |                         |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| 23 31 13 13-0088 LF 8" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 35.07                     | 18.41                   |
| For Seal Class B, Add  | 4.60                      |                         |
| For Seal Class A, Add  | 9.81                      |                         |
| For Work In Restricted Working Space, Add  | 9.20                      |                         |
| 23 31 13 13-0089 LF 8" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 39.45                     | 20.70                   |
| For Seal Class B, Add  | 5.18                      |                         |
| For Seal Class A, Add  | 11.04                     |                         |
| For Work In Restricted Working Space, Add  | 10.35                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0090 LF 8" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 43.83                     | 23.01                   |
| <i>For Seal Class B, Add</i>   | 5.75                      |                         |
| <i>For Seal Class A, Add</i>   | 12.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 11.50                     |                         |
| 23 31 13 13-0091 LF 8" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 48.23                     | 25.30                   |
| <i>For Seal Class B, Add</i>   | 6.33                      |                         |
| <i>For Seal Class A, Add</i>   | 13.50                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.65                     |                         |
| 23 31 13 13-0092 LF 8" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 52.60                     | 27.60                   |
| <i>For Seal Class B, Add</i>   | 6.90                      |                         |
| <i>For Seal Class A, Add</i>   | 14.72                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.80                     |                         |
| 23 31 13 13-0093 LF 8" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 56.98                     | 29.90                   |
| <i>For Seal Class B, Add</i>   | 7.48                      |                         |
| <i>For Seal Class A, Add</i>   | 15.95                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.95                     |                         |
| 23 31 13 13-0094 LF 8" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 61.37                     | 32.21                   |
| <i>For Seal Class B, Add</i>   | 8.05                      |                         |
| <i>For Seal Class A, Add</i>   | 17.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.10                     |                         |
| 23 31 13 13-0095 LF 8" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 65.74                     | 34.50                   |
| <i>For Seal Class B, Add</i>   | 8.63                      |                         |
| <i>For Seal Class A, Add</i>   | 18.40                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 17.25                     |                         |
| 23 31 13 13-0096 LF 8" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 70.14                     | 36.80                   |
| <i>For Seal Class B, Add</i>   | 9.20                      |                         |
| <i>For Seal Class A, Add</i>   | 19.63                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.40                     |                         |
| 23 31 13 13-0097 LF 10" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 43.83                     | 23.01                   |
| <i>For Seal Class B, Add</i>   | 5.75                      |                         |
| <i>For Seal Class A, Add</i>   | 12.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 11.50                     |                         |
| 23 31 13 13-0098 LF 10" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 48.23                     | 25.30                   |
| <i>For Seal Class B, Add</i>   | 6.33                      |                         |
| <i>For Seal Class A, Add</i>   | 13.50                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.65                     |                         |
| 23 31 13 13-0099 LF 10" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 52.60                     | 27.60                   |
| <i>For Seal Class B, Add</i>   | 6.90                      |                         |
| <i>For Seal Class A, Add</i>   | 14.72                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.80                     |                         |
| 23 31 13 13-0100 LF 10" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 56.98                     | 29.90                   |
| <i>For Seal Class B, Add</i>   | 7.48                      |                         |
| <i>For Seal Class A, Add</i>   | 15.95                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.95                     |                         |
| 23 31 13 13-0101 LF 10" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 61.37                     | 32.21                   |
| <i>For Seal Class B, Add</i>   | 8.05                      |                         |
| <i>For Seal Class A, Add</i>   | 17.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.10                     |                         |
| 23 31 13 13-0102 LF 10" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 65.74                     | 34.50                   |
| <i>For Seal Class B, Add</i>   | 8.63                      |                         |
| <i>For Seal Class A, Add</i>   | 18.40                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 17.25                     |                         |
| 23 31 13 13-0103 LF 10" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 70.14                     | 36.80                   |
| <i>For Seal Class B, Add</i>   | 9.20                      |                         |
| <i>For Seal Class A, Add</i>   | 19.63                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.40                     |                         |
| 23 31 13 13-0104 LF 10" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 74.53                     | 39.11                   |
| <i>For Seal Class B, Add</i>   | 9.78                      |                         |
| <i>For Seal Class A, Add</i>   | 20.86                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 19.55                     |                         |
| 23 31 13 13-0105 LF 12" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 52.60                     | 27.60                   |
| <i>For Seal Class B, Add</i>   | 6.90                      |                         |
| <i>For Seal Class A, Add</i>   | 14.72                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.80                     |                         |
| 23 31 13 13-0106 LF 12" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 56.98                     | 29.90                   |
| <i>For Seal Class B, Add</i>   | 7.48                      |                         |
| <i>For Seal Class A, Add</i>   | 15.95                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.95                     |                         |
| 23 31 13 13-0107 LF 12" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 61.37                     | 32.21                   |
| <i>For Seal Class B, Add</i>   | 8.05                      |                         |
| <i>For Seal Class A, Add</i>   | 17.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.10                     |                         |
| 23 31 13 13-0108 LF 12" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 65.74                     | 34.50                   |
| <i>For Seal Class B, Add</i>   | 8.63                      |                         |
| <i>For Seal Class A, Add</i>   | 18.40                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 17.25                     |                         |
| 23 31 13 13-0109 LF 12" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 70.14                     | 36.80                   |
| <i>For Seal Class B, Add</i>   | 9.20                      |                         |
| <i>For Seal Class A, Add</i>   | 19.63                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.40                     |                         |
| 23 31 13 13-0110 LF 12" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 74.53                     | 39.11                   |
| <i>For Seal Class B, Add</i>   | 9.78                      |                         |
| <i>For Seal Class A, Add</i>   | 20.86                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 19.55                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0111 LF 12" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 78.90                     | 41.40                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.08                     |                         |
| For Work In Restricted Working Space, Add  | 20.70                     |                         |
| 23 31 13 13-0112 LF 14" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 61.37                     | 32.21                   |
| For Seal Class B, Add  | 8.05                      |                         |
| For Seal Class A, Add  | 17.17                     |                         |
| For Work In Restricted Working Space, Add  | 16.10                     |                         |
| 23 31 13 13-0113 LF 14" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 65.74                     | 34.50                   |
| For Seal Class B, Add  | 8.63                      |                         |
| For Seal Class A, Add  | 18.40                     |                         |
| For Work In Restricted Working Space, Add  | 17.25                     |                         |
| 23 31 13 13-0114 LF 14" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 70.14                     | 36.80                   |
| For Seal Class B, Add  | 9.20                      |                         |
| For Seal Class A, Add  | 19.63                     |                         |
| For Work In Restricted Working Space, Add  | 18.40                     |                         |
| 23 31 13 13-0115 LF 14" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 74.53                     | 39.11                   |
| For Seal Class B, Add  | 9.78                      |                         |
| For Seal Class A, Add  | 20.86                     |                         |
| For Work In Restricted Working Space, Add  | 19.55                     |                         |
| 23 31 13 13-0116 LF 14" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 78.90                     | 41.40                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.08                     |                         |
| For Work In Restricted Working Space, Add  | 20.70                     |                         |
| 23 31 13 13-0117 LF 14" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 83.30                     | 43.70                   |
| For Seal Class B, Add  | 10.93                     |                         |
| For Seal Class A, Add  | 23.31                     |                         |
| For Work In Restricted Working Space, Add  | 21.85                     |                         |
| 23 31 13 13-0118 LF 16" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 70.14                     | 36.80                   |
| For Seal Class B, Add  | 9.20                      |                         |
| For Seal Class A, Add  | 19.63                     |                         |
| For Work In Restricted Working Space, Add  | 18.40                     |                         |
| 23 31 13 13-0119 LF 16" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 74.53                     | 39.11                   |
| For Seal Class B, Add  | 9.78                      |                         |
| For Seal Class A, Add  | 20.86                     |                         |
| For Work In Restricted Working Space, Add  | 19.55                     |                         |
| 23 31 13 13-0120 LF 16" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 78.90                     | 41.40                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.08                     |                         |
| For Work In Restricted Working Space, Add  | 20.70                     |                         |
| 23 31 13 13-0121 LF 16" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 83.30                     | 43.70                   |
| For Seal Class B, Add  | 10.93                     |                         |
| For Seal Class A, Add  | 23.31                     |                         |
| For Work In Restricted Working Space, Add  | 21.85                     |                         |
| 23 31 13 13-0122 LF 16" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 87.68                     | 46.01                   |
| For Seal Class B, Add  | 11.50                     |                         |
| For Seal Class A, Add  | 24.54                     |                         |
| For Work In Restricted Working Space, Add  | 23.00                     |                         |
| 23 31 13 13-0123 LF 18" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 78.90                     | 41.40                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.08                     |                         |
| For Work In Restricted Working Space, Add  | 20.70                     |                         |
| 23 31 13 13-0124 LF 18" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 83.30                     | 43.70                   |
| For Seal Class B, Add  | 10.93                     |                         |
| For Seal Class A, Add  | 23.31                     |                         |
| For Work In Restricted Working Space, Add  | 21.85                     |                         |
| 23 31 13 13-0125 LF 18" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 87.68                     | 46.01                   |
| For Seal Class B, Add  | 11.50                     |                         |
| For Seal Class A, Add  | 24.54                     |                         |
| For Work In Restricted Working Space, Add  | 23.00                     |                         |
| 23 31 13 13-0126 LF 18" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 92.05                     | 48.31                   |
| For Seal Class B, Add  | 12.08                     |                         |
| For Seal Class A, Add  | 25.76                     |                         |
| For Work In Restricted Working Space, Add  | 24.15                     |                         |
| 23 31 13 13-0127 LF 20" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 87.68                     | 46.01                   |
| For Seal Class B, Add  | 11.50                     |                         |
| For Seal Class A, Add  | 24.54                     |                         |
| For Work In Restricted Working Space, Add  | 23.00                     |                         |
| 23 31 13 13-0128 LF 20" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 92.05                     | 48.31                   |
| For Seal Class B, Add  | 12.08                     |                         |
| For Seal Class A, Add  | 25.76                     |                         |
| For Work In Restricted Working Space, Add  | 24.15                     |                         |
| 23 31 13 13-0129 LF 20" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 96.44                     | 50.61                   |
| For Seal Class B, Add  | 12.65                     |                         |
| For Seal Class A, Add  | 26.99                     |                         |
| For Work In Restricted Working Space, Add  | 25.30                     |                         |
| 23 31 13 13-0130 LF 22" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 96.44                     | 50.61                   |
| For Seal Class B, Add  | 12.65                     |                         |
| For Seal Class A, Add  | 26.99                     |                         |
| For Work In Restricted Working Space, Add  | 25.30                     |                         |
| 23 31 13 13-0131 LF 22" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 100.82                    | 52.90                   |
| For Seal Class B, Add  | 13.23                     |                         |
| For Seal Class A, Add  | 28.21                     |                         |
| For Work In Restricted Working Space, Add  | 26.45                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0132 LF 24" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....     | 105.20                    | 55.21                   |
| <i>For Seal Class B, Add</i>   | 13.80                     |                         |
| <i>For Seal Class A, Add</i>   | 29.44                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 27.60                     |                         |
| <br><b>23 31 13 13-0133 26 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small> |                           |                         |
| 23 31 13 13-0134 LF 4" x 4", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 20.34                     | 10.67                   |
| <i>For Seal Class B, Add</i>   | 2.67                      |                         |
| <i>For Seal Class A, Add</i>   | 5.69                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.34                      |                         |
| 23 31 13 13-0135 LF 4" x 6", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 25.43                     | 13.33                   |
| <i>For Seal Class B, Add</i>   | 3.34                      |                         |
| <i>For Seal Class A, Add</i>   | 7.12                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 6.67                      |                         |
| 23 31 13 13-0136 LF 4" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 30.51                     | 16.02                   |
| <i>For Seal Class B, Add</i>   | 4.00                      |                         |
| <i>For Seal Class A, Add</i>   | 8.54                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.00                      |                         |
| 23 31 13 13-0137 LF 4" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 35.59                     | 18.69                   |
| <i>For Seal Class B, Add</i>   | 4.67                      |                         |
| <i>For Seal Class A, Add</i>   | 9.96                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 9.34                      |                         |
| 23 31 13 13-0138 LF 4" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 40.67                     | 21.35                   |
| <i>For Seal Class B, Add</i>   | 5.34                      |                         |
| <i>For Seal Class A, Add</i>   | 11.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.67                     |                         |
| 23 31 13 13-0139 LF 4" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 45.76                     | 24.01                   |
| <i>For Seal Class B, Add</i>   | 6.00                      |                         |
| <i>For Seal Class A, Add</i>   | 12.81                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.01                     |                         |
| 23 31 13 13-0140 LF 4" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 50.84                     | 26.68                   |
| <i>For Seal Class B, Add</i>   | 6.67                      |                         |
| <i>For Seal Class A, Add</i>   | 14.23                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.34                     |                         |
| 23 31 13 13-0141 LF 6" x 6", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 30.51                     | 16.02                   |
| <i>For Seal Class B, Add</i>   | 4.00                      |                         |
| <i>For Seal Class A, Add</i>   | 8.54                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.00                      |                         |
| 23 31 13 13-0142 LF 6" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 35.59                     | 18.69                   |
| <i>For Seal Class B, Add</i>   | 4.67                      |                         |
| <i>For Seal Class A, Add</i>   | 9.96                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 9.34                      |                         |
| 23 31 13 13-0143 LF 6" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 40.67                     | 21.35                   |
| <i>For Seal Class B, Add</i>   | 5.34                      |                         |
| <i>For Seal Class A, Add</i>   | 11.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.67                     |                         |
| 23 31 13 13-0144 LF 6" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 45.76                     | 24.01                   |
| <i>For Seal Class B, Add</i>   | 6.00                      |                         |
| <i>For Seal Class A, Add</i>   | 12.81                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.01                     |                         |
| 23 31 13 13-0145 LF 6" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 50.84                     | 26.68                   |
| <i>For Seal Class B, Add</i>   | 6.67                      |                         |
| <i>For Seal Class A, Add</i>   | 14.23                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.34                     |                         |
| 23 31 13 13-0146 LF 6" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 55.95                     | 29.35                   |
| <i>For Seal Class B, Add</i>   | 7.34                      |                         |
| <i>For Seal Class A, Add</i>   | 15.66                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.68                     |                         |
| 23 31 13 13-0147 LF 8" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 40.67                     | 21.35                   |
| <i>For Seal Class B, Add</i>   | 5.34                      |                         |
| <i>For Seal Class A, Add</i>   | 11.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.67                     |                         |
| 23 31 13 13-0148 LF 8" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 45.76                     | 24.01                   |
| <i>For Seal Class B, Add</i>   | 6.00                      |                         |
| <i>For Seal Class A, Add</i>   | 12.81                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.01                     |                         |
| 23 31 13 13-0149 LF 8" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 50.85                     | 26.68                   |
| <i>For Seal Class B, Add</i>   | 6.67                      |                         |
| <i>For Seal Class A, Add</i>   | 14.23                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.34                     |                         |
| 23 31 13 13-0150 LF 8" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 55.95                     | 29.35                   |
| <i>For Seal Class B, Add</i>   | 7.34                      |                         |
| <i>For Seal Class A, Add</i>   | 15.66                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.68                     |                         |
| 23 31 13 13-0151 LF 8" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 61.03                     | 32.02                   |
| <i>For Seal Class B, Add</i>   | 8.01                      |                         |
| <i>For Seal Class A, Add</i>   | 17.08                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.01                     |                         |
| 23 31 13 13-0152 LF 8" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....      | 66.11                     | 34.69                   |
| <i>For Seal Class B, Add</i>   | 8.67                      |                         |
| <i>For Seal Class A, Add</i>   | 18.50                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 17.35                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0153 LF 8" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 71.19                     | 37.36                   |
| For Seal Class B, Add  | 9.34                      |                         |
| For Seal Class A, Add  | 19.93                     |                         |
| For Work In Restricted Working Space, Add  | 18.68                     |                         |
| 23 31 13 13-0154 LF 8" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 76.29                     | 40.02                   |
| For Seal Class B, Add  | 10.01                     |                         |
| For Seal Class A, Add  | 21.35                     |                         |
| For Work In Restricted Working Space, Add  | 20.01                     |                         |
| 23 31 13 13-0155 LF 8" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 81.36                     | 42.69                   |
| For Seal Class B, Add  | 10.67                     |                         |
| For Seal Class A, Add  | 22.77                     |                         |
| For Work In Restricted Working Space, Add  | 21.35                     |                         |
| 23 31 13 13-0156 LF 10" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 50.85                     | 26.68                   |
| For Seal Class B, Add  | 6.67                      |                         |
| For Seal Class A, Add  | 14.23                     |                         |
| For Work In Restricted Working Space, Add  | 13.34                     |                         |
| 23 31 13 13-0157 LF 10" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 55.95                     | 29.35                   |
| For Seal Class B, Add  | 7.34                      |                         |
| For Seal Class A, Add  | 15.66                     |                         |
| For Work In Restricted Working Space, Add  | 14.68                     |                         |
| 23 31 13 13-0158 LF 10" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 61.03                     | 32.02                   |
| For Seal Class B, Add  | 8.01                      |                         |
| For Seal Class A, Add  | 17.08                     |                         |
| For Work In Restricted Working Space, Add  | 16.01                     |                         |
| 23 31 13 13-0159 LF 10" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 66.11                     | 34.69                   |
| For Seal Class B, Add  | 8.67                      |                         |
| For Seal Class A, Add  | 18.50                     |                         |
| For Work In Restricted Working Space, Add  | 17.35                     |                         |
| 23 31 13 13-0160 LF 10" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 71.19                     | 37.36                   |
| For Seal Class B, Add  | 9.34                      |                         |
| For Seal Class A, Add  | 19.93                     |                         |
| For Work In Restricted Working Space, Add  | 18.68                     |                         |
| 23 31 13 13-0161 LF 10" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 76.29                     | 40.02                   |
| For Seal Class B, Add  | 10.01                     |                         |
| For Seal Class A, Add  | 21.35                     |                         |
| For Work In Restricted Working Space, Add  | 20.01                     |                         |
| 23 31 13 13-0162 LF 10" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 81.36                     | 42.69                   |
| For Seal Class B, Add  | 10.67                     |                         |
| For Seal Class A, Add  | 22.77                     |                         |
| For Work In Restricted Working Space, Add  | 21.35                     |                         |
| 23 31 13 13-0163 LF 10" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 86.45                     | 45.37                   |
| For Seal Class B, Add  | 11.34                     |                         |
| For Seal Class A, Add  | 24.20                     |                         |
| For Work In Restricted Working Space, Add  | 22.68                     |                         |
| 23 31 13 13-0164 LF 12" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 61.02                     | 32.02                   |
| For Seal Class B, Add  | 8.01                      |                         |
| For Seal Class A, Add  | 17.08                     |                         |
| For Work In Restricted Working Space, Add  | 16.01                     |                         |
| 23 31 13 13-0165 LF 12" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 66.11                     | 34.69                   |
| For Seal Class B, Add  | 8.67                      |                         |
| For Seal Class A, Add  | 18.50                     |                         |
| For Work In Restricted Working Space, Add  | 17.35                     |                         |
| 23 31 13 13-0166 LF 12" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 71.19                     | 37.36                   |
| For Seal Class B, Add  | 9.34                      |                         |
| For Seal Class A, Add  | 19.93                     |                         |
| For Work In Restricted Working Space, Add  | 18.68                     |                         |
| 23 31 13 13-0167 LF 12" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 76.29                     | 40.02                   |
| For Seal Class B, Add  | 10.01                     |                         |
| For Seal Class A, Add  | 21.35                     |                         |
| For Work In Restricted Working Space, Add  | 20.01                     |                         |
| 23 31 13 13-0168 LF 12" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 81.36                     | 42.69                   |
| For Seal Class B, Add  | 10.67                     |                         |
| For Seal Class A, Add  | 22.77                     |                         |
| For Work In Restricted Working Space, Add  | 21.35                     |                         |
| 23 31 13 13-0169 LF 12" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 86.45                     | 45.37                   |
| For Seal Class B, Add  | 11.34                     |                         |
| For Seal Class A, Add  | 24.20                     |                         |
| For Work In Restricted Working Space, Add  | 22.68                     |                         |
| 23 31 13 13-0170 LF 12" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 91.53                     | 48.04                   |
| For Seal Class B, Add  | 12.01                     |                         |
| For Seal Class A, Add  | 25.62                     |                         |
| For Work In Restricted Working Space, Add  | 24.02                     |                         |
| 23 31 13 13-0171 LF 14" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 71.19                     | 37.36                   |
| For Seal Class B, Add  | 9.34                      |                         |
| For Seal Class A, Add  | 19.93                     |                         |
| For Work In Restricted Working Space, Add  | 18.68                     |                         |
| 23 31 13 13-0172 LF 14" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 76.29                     | 40.02                   |
| For Seal Class B, Add  | 10.01                     |                         |
| For Seal Class A, Add  | 21.35                     |                         |
| For Work In Restricted Working Space, Add  | 20.01                     |                         |
| 23 31 13 13-0173 LF 14" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 81.36                     | 42.69                   |
| For Seal Class B, Add  | 10.67                     |                         |
| For Seal Class A, Add  | 22.77                     |                         |
| For Work In Restricted Working Space, Add  | 21.35                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0174 LF 14" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 86.45                     | 45.37                   |
| <i>For Seal Class B, Add</i>   | 11.34                     |                         |
| <i>For Seal Class A, Add</i>   | 24.20                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 22.68                     |                         |
| 23 31 13 13-0175 LF 14" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 91.53                     | 48.04                   |
| <i>For Seal Class B, Add</i>   | 12.01                     |                         |
| <i>For Seal Class A, Add</i>   | 25.62                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.02                     |                         |
| 23 31 13 13-0176 LF 14" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 96.63                     | 50.71                   |
| <i>For Seal Class B, Add</i>   | 12.68                     |                         |
| <i>For Seal Class A, Add</i>   | 27.04                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 25.35                     |                         |
| 23 31 13 13-0177 LF 16" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 81.36                     | 42.69                   |
| <i>For Seal Class B, Add</i>   | 10.67                     |                         |
| <i>For Seal Class A, Add</i>   | 22.77                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 21.35                     |                         |
| 23 31 13 13-0178 LF 16" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 86.45                     | 45.37                   |
| <i>For Seal Class B, Add</i>   | 11.34                     |                         |
| <i>For Seal Class A, Add</i>   | 24.20                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 22.68                     |                         |
| 23 31 13 13-0179 LF 16" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 91.53                     | 48.04                   |
| <i>For Seal Class B, Add</i>   | 12.01                     |                         |
| <i>For Seal Class A, Add</i>   | 25.62                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.02                     |                         |
| 23 31 13 13-0180 LF 16" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 96.63                     | 50.71                   |
| <i>For Seal Class B, Add</i>   | 12.68                     |                         |
| <i>For Seal Class A, Add</i>   | 27.04                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 25.35                     |                         |
| 23 31 13 13-0181 LF 16" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 101.71                    | 53.37                   |
| <i>For Seal Class B, Add</i>   | 13.34                     |                         |
| <i>For Seal Class A, Add</i>   | 28.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.69                     |                         |
| 23 31 13 13-0182 LF 18" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 91.53                     | 48.04                   |
| <i>For Seal Class B, Add</i>   | 12.01                     |                         |
| <i>For Seal Class A, Add</i>   | 25.62                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.02                     |                         |
| 23 31 13 13-0183 LF 18" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 96.63                     | 50.71                   |
| <i>For Seal Class B, Add</i>   | 12.68                     |                         |
| <i>For Seal Class A, Add</i>   | 27.04                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 25.35                     |                         |
| 23 31 13 13-0184 LF 18" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 101.71                    | 53.37                   |
| <i>For Seal Class B, Add</i>   | 13.34                     |                         |
| <i>For Seal Class A, Add</i>   | 28.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.69                     |                         |
| 23 31 13 13-0185 LF 18" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 106.78                    | 56.03                   |
| <i>For Seal Class B, Add</i>   | 14.01                     |                         |
| <i>For Seal Class A, Add</i>   | 29.88                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 28.02                     |                         |
| 23 31 13 13-0186 LF 20" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 101.71                    | 53.37                   |
| <i>For Seal Class B, Add</i>   | 13.34                     |                         |
| <i>For Seal Class A, Add</i>   | 28.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.69                     |                         |
| 23 31 13 13-0187 LF 20" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 106.78                    | 56.03                   |
| <i>For Seal Class B, Add</i>   | 14.01                     |                         |
| <i>For Seal Class A, Add</i>   | 29.88                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 28.02                     |                         |
| 23 31 13 13-0188 LF 20" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 111.86                    | 58.70                   |
| <i>For Seal Class B, Add</i>   | 14.68                     |                         |
| <i>For Seal Class A, Add</i>   | 31.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 29.35                     |                         |
| 23 31 13 13-0189 LF 22" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 111.86                    | 58.70                   |
| <i>For Seal Class B, Add</i>   | 14.68                     |                         |
| <i>For Seal Class A, Add</i>   | 31.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 29.35                     |                         |
| 23 31 13 13-0190 LF 22" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 116.96                    | 61.37                   |
| <i>For Seal Class B, Add</i>   | 15.34                     |                         |
| <i>For Seal Class A, Add</i>   | 32.73                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.68                     |                         |
| 23 31 13 13-0191 LF 24" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....       | 122.05                    | 64.04                   |
| <i>For Seal Class B, Add</i>   | 16.01                     |                         |
| <i>For Seal Class A, Add</i>   | 34.16                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 32.02                     |                         |
| <b>23 31 13 13-0192 24 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small> ..... | <b>30.86</b>              | <b>16.56</b>            |
| <i>For Seal Class B, Add</i>   | 4.14                      |                         |
| <i>For Seal Class A, Add</i>   | 8.84                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.28                      |                         |
| 23 31 13 13-0194 LF 4" x 6", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....         | 38.59                     | 20.70                   |
| <i>For Seal Class B, Add</i>   | 5.18                      |                         |
| <i>For Seal Class A, Add</i>   | 11.05                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.36                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0195 LF 4" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 46.29                     | 24.84                   |
| For Seal Class B, Add  | 6.21                      |                         |
| For Seal Class A, Add  | 13.25                     |                         |
| For Work In Restricted Working Space, Add  | 12.42                     |                         |
| 23 31 13 13-0196 LF 4" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 54.01                     | 28.99                   |
| For Seal Class B, Add  | 7.25                      |                         |
| For Seal Class A, Add  | 15.46                     |                         |
| For Work In Restricted Working Space, Add  | 14.49                     |                         |
| 23 31 13 13-0197 LF 4" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 61.72                     | 33.14                   |
| For Seal Class B, Add  | 8.28                      |                         |
| For Seal Class A, Add  | 17.67                     |                         |
| For Work In Restricted Working Space, Add  | 16.56                     |                         |
| 23 31 13 13-0198 LF 4" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 69.44                     | 37.27                   |
| For Seal Class B, Add  | 9.32                      |                         |
| For Seal Class A, Add  | 19.88                     |                         |
| For Work In Restricted Working Space, Add  | 18.64                     |                         |
| 23 31 13 13-0199 LF 4" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 77.16                     | 41.41                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.09                     |                         |
| For Work In Restricted Working Space, Add  | 20.71                     |                         |
| 23 31 13 13-0200 LF 6" x 6", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 46.29                     | 24.84                   |
| For Seal Class B, Add  | 6.21                      |                         |
| For Seal Class A, Add  | 13.25                     |                         |
| For Work In Restricted Working Space, Add  | 12.42                     |                         |
| 23 31 13 13-0201 LF 6" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 54.01                     | 28.99                   |
| For Seal Class B, Add  | 7.25                      |                         |
| For Seal Class A, Add  | 15.46                     |                         |
| For Work In Restricted Working Space, Add  | 14.49                     |                         |
| 23 31 13 13-0202 LF 6" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 61.72                     | 33.14                   |
| For Seal Class B, Add  | 8.28                      |                         |
| For Seal Class A, Add  | 17.67                     |                         |
| For Work In Restricted Working Space, Add  | 16.56                     |                         |
| 23 31 13 13-0203 LF 6" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 69.44                     | 37.27                   |
| For Seal Class B, Add  | 9.32                      |                         |
| For Seal Class A, Add  | 19.88                     |                         |
| For Work In Restricted Working Space, Add  | 18.64                     |                         |
| 23 31 13 13-0204 LF 6" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 77.16                     | 41.41                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.09                     |                         |
| For Work In Restricted Working Space, Add  | 20.71                     |                         |
| 23 31 13 13-0205 LF 6" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 84.87                     | 45.55                   |
| For Seal Class B, Add  | 11.39                     |                         |
| For Seal Class A, Add  | 24.29                     |                         |
| For Work In Restricted Working Space, Add  | 22.78                     |                         |
| 23 31 13 13-0206 LF 8" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 61.72                     | 33.14                   |
| For Seal Class B, Add  | 8.28                      |                         |
| For Seal Class A, Add  | 17.67                     |                         |
| For Work In Restricted Working Space, Add  | 16.56                     |                         |
| 23 31 13 13-0207 LF 8" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 69.44                     | 37.27                   |
| For Seal Class B, Add  | 9.32                      |                         |
| For Seal Class A, Add  | 19.88                     |                         |
| For Work In Restricted Working Space, Add  | 18.64                     |                         |
| 23 31 13 13-0208 LF 8" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 77.16                     | 41.41                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.09                     |                         |
| For Work In Restricted Working Space, Add  | 20.71                     |                         |
| 23 31 13 13-0209 LF 8" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 84.87                     | 45.55                   |
| For Seal Class B, Add  | 11.39                     |                         |
| For Seal Class A, Add  | 24.29                     |                         |
| For Work In Restricted Working Space, Add  | 22.78                     |                         |
| 23 31 13 13-0210 LF 8" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 92.59                     | 49.69                   |
| For Seal Class B, Add  | 12.42                     |                         |
| For Seal Class A, Add  | 26.51                     |                         |
| For Work In Restricted Working Space, Add  | 24.85                     |                         |
| 23 31 13 13-0211 LF 8" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 100.31                    | 53.84                   |
| For Seal Class B, Add  | 13.46                     |                         |
| For Seal Class A, Add  | 28.71                     |                         |
| For Work In Restricted Working Space, Add  | 26.92                     |                         |
| 23 31 13 13-0212 LF 8" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 108.01                    | 57.98                   |
| For Seal Class B, Add  | 14.49                     |                         |
| For Seal Class A, Add  | 30.92                     |                         |
| For Work In Restricted Working Space, Add  | 28.99                     |                         |
| 23 31 13 13-0213 LF 8" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 115.73                    | 62.12                   |
| For Seal Class B, Add  | 15.53                     |                         |
| For Seal Class A, Add  | 33.13                     |                         |
| For Work In Restricted Working Space, Add  | 31.06                     |                         |
| 23 31 13 13-0214 LF 8" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 123.45                    | 66.25                   |
| For Seal Class B, Add  | 16.56                     |                         |
| For Seal Class A, Add  | 35.34                     |                         |
| For Work In Restricted Working Space, Add  | 33.13                     |                         |
| 23 31 13 13-0215 LF 10" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 77.16                     | 41.41                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 22.09                     |                         |
| For Work In Restricted Working Space, Add  | 20.71                     |                         |



| MINOR            | TOTAL DIRECT  | DEMOLITION |       |
|------------------|---|------------|-------|
| CSI              | UNIT COST   | UNIT COST  |       |
| UOM              |   |            |       |
| DESCRIPTION      |   |            |       |
| 23 31 13 13-0216 | LF 10" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 84.87      | 45.55 |
|                  | <i>For Seal Class B, Add</i>  | 11.39      |       |
|                  | <i>For Seal Class A, Add</i>  | 24.29      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 22.78      |       |
| 23 31 13 13-0217 | LF 10" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 92.59      | 49.69 |
|                  | <i>For Seal Class B, Add</i>  | 12.42      |       |
|                  | <i>For Seal Class A, Add</i>  | 26.51      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 24.85      |       |
| 23 31 13 13-0218 | LF 10" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 100.31     | 53.84 |
|                  | <i>For Seal Class B, Add</i>  | 13.46      |       |
|                  | <i>For Seal Class A, Add</i>  | 28.71      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 26.92      |       |
| 23 31 13 13-0219 | LF 10" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 108.01     | 57.98 |
|                  | <i>For Seal Class B, Add</i>  | 14.49      |       |
|                  | <i>For Seal Class A, Add</i>  | 30.92      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 28.99      |       |
| 23 31 13 13-0220 | LF 10" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 115.73     | 62.12 |
|                  | <i>For Seal Class B, Add</i>  | 15.53      |       |
|                  | <i>For Seal Class A, Add</i>  | 33.13      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 31.06      |       |
| 23 31 13 13-0221 | LF 10" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 123.45     | 66.25 |
|                  | <i>For Seal Class B, Add</i>  | 16.56      |       |
|                  | <i>For Seal Class A, Add</i>  | 35.34      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 33.13      |       |
| 23 31 13 13-0222 | LF 10" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 131.16     | 70.40 |
|                  | <i>For Seal Class B, Add</i>  | 17.60      |       |
|                  | <i>For Seal Class A, Add</i>  | 37.55      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 35.20      |       |
| 23 31 13 13-0223 | LF 10" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 138.88     | 74.53 |
|                  | <i>For Seal Class B, Add</i>  | 18.63      |       |
|                  | <i>For Seal Class A, Add</i>  | 39.75      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 37.27      |       |
| 23 31 13 13-0224 | LF 10" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 146.60     | 78.68 |
|                  | <i>For Seal Class B, Add</i>  | 19.67      |       |
|                  | <i>For Seal Class A, Add</i>  | 41.96      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 39.34      |       |
| 23 31 13 13-0225 | LF 10" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 154.31     | 82.83 |
|                  | <i>For Seal Class B, Add</i>  | 20.71      |       |
|                  | <i>For Seal Class A, Add</i>  | 44.17      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 41.41      |       |
| 23 31 13 13-0226 | LF 12" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 92.59      | 49.69 |
|                  | <i>For Seal Class B, Add</i>  | 12.42      |       |
|                  | <i>For Seal Class A, Add</i>  | 26.51      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 24.85      |       |
| 23 31 13 13-0227 | LF 12" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 100.31     | 53.84 |
|                  | <i>For Seal Class B, Add</i>  | 13.46      |       |
|                  | <i>For Seal Class A, Add</i>  | 28.71      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 26.92      |       |
| 23 31 13 13-0228 | LF 12" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 108.01     | 57.98 |
|                  | <i>For Seal Class B, Add</i>  | 14.49      |       |
|                  | <i>For Seal Class A, Add</i>  | 30.92      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 28.99      |       |
| 23 31 13 13-0229 | LF 12" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 115.73     | 62.12 |
|                  | <i>For Seal Class B, Add</i>  | 15.53      |       |
|                  | <i>For Seal Class A, Add</i>  | 33.13      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 31.06      |       |
| 23 31 13 13-0230 | LF 12" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 123.45     | 66.25 |
|                  | <i>For Seal Class B, Add</i>  | 16.56      |       |
|                  | <i>For Seal Class A, Add</i>  | 35.34      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 33.13      |       |
| 23 31 13 13-0231 | LF 12" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 131.16     | 70.40 |
|                  | <i>For Seal Class B, Add</i>  | 17.60      |       |
|                  | <i>For Seal Class A, Add</i>  | 37.55      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 35.20      |       |
| 23 31 13 13-0232 | LF 12" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 138.88     | 74.53 |
|                  | <i>For Seal Class B, Add</i>  | 18.63      |       |
|                  | <i>For Seal Class A, Add</i>  | 39.75      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 37.27      |       |
| 23 31 13 13-0233 | LF 12" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 146.60     | 78.68 |
|                  | <i>For Seal Class B, Add</i>  | 19.67      |       |
|                  | <i>For Seal Class A, Add</i>  | 41.96      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 39.34      |       |
| 23 31 13 13-0234 | LF 12" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 154.31     | 82.83 |
|                  | <i>For Seal Class B, Add</i>  | 20.71      |       |
|                  | <i>For Seal Class A, Add</i>  | 44.17      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 41.41      |       |
| 23 31 13 13-0235 | LF 12" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 162.02     | 86.97 |
|                  | <i>For Seal Class B, Add</i>  | 21.74      |       |
|                  | <i>For Seal Class A, Add</i>  | 46.38      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 43.48      |       |
| 23 31 13 13-0236 | LF 14" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 108.01     | 57.98 |
|                  | <i>For Seal Class B, Add</i>  | 14.49      |       |
|                  | <i>For Seal Class A, Add</i>  | 30.92      |       |
|                  | <i>For Work In Restricted Working Space, Add</i>                                  | 28.99      |       |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI | UOM     | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--------------|---------|---|---------------------------|-------------------------|
| 23 31 13     | 13-0237 | LF 14" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 115.73                    | 62.12                   |
|              |         | <i>For Seal Class B, Add</i>  | 15.53                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 33.13                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 31.06                     |                         |
| 23 31 13     | 13-0238 | LF 14" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 123.45                    | 66.25                   |
|              |         | <i>For Seal Class B, Add</i>  | 16.56                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 35.34                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 33.13                     |                         |
| 23 31 13     | 13-0239 | LF 14" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 131.16                    | 70.40                   |
|              |         | <i>For Seal Class B, Add</i>  | 17.60                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 37.55                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 35.20                     |                         |
| 23 31 13     | 13-0240 | LF 14" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 138.88                    | 74.53                   |
|              |         | <i>For Seal Class B, Add</i>  | 18.63                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 39.75                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 37.27                     |                         |
| 23 31 13     | 13-0241 | LF 14" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 146.60                    | 78.68                   |
|              |         | <i>For Seal Class B, Add</i>  | 19.67                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 41.96                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 39.34                     |                         |
| 23 31 13     | 13-0242 | LF 14" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 154.31                    | 82.83                   |
|              |         | <i>For Seal Class B, Add</i>  | 20.71                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 44.17                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 41.41                     |                         |
| 23 31 13     | 13-0243 | LF 14" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 162.02                    | 86.97                   |
|              |         | <i>For Seal Class B, Add</i>  | 21.74                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 46.38                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 43.48                     |                         |
| 23 31 13     | 13-0244 | LF 14" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.73                    | 91.10                   |
|              |         | <i>For Seal Class B, Add</i>  | 22.77                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 48.59                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 45.55                     |                         |
| 23 31 13     | 13-0245 | LF 16" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 123.45                    | 66.25                   |
|              |         | <i>For Seal Class B, Add</i>  | 16.56                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 35.34                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 33.13                     |                         |
| 23 31 13     | 13-0246 | LF 16" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 131.16                    | 70.40                   |
|              |         | <i>For Seal Class B, Add</i>  | 17.60                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 37.55                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 35.20                     |                         |
| 23 31 13     | 13-0247 | LF 16" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 138.88                    | 74.53                   |
|              |         | <i>For Seal Class B, Add</i>  | 18.63                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 39.75                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 37.27                     |                         |
| 23 31 13     | 13-0248 | LF 16" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 146.60                    | 78.68                   |
|              |         | <i>For Seal Class B, Add</i>  | 19.67                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 41.96                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 39.34                     |                         |
| 23 31 13     | 13-0249 | LF 16" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 154.31                    | 82.83                   |
|              |         | <i>For Seal Class B, Add</i>  | 20.71                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 44.17                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 41.41                     |                         |
| 23 31 13     | 13-0250 | LF 16" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 162.02                    | 86.97                   |
|              |         | <i>For Seal Class B, Add</i>  | 21.74                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 46.38                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 43.48                     |                         |
| 23 31 13     | 13-0251 | LF 16" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.73                    | 91.10                   |
|              |         | <i>For Seal Class B, Add</i>  | 22.77                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 48.59                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 45.55                     |                         |
| 23 31 13     | 13-0252 | LF 16" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 177.46                    | 95.24                   |
|              |         | <i>For Seal Class B, Add</i>  | 23.81                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 50.80                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 47.62                     |                         |
| 23 31 13     | 13-0253 | LF 18" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 138.88                    | 74.53                   |
|              |         | <i>For Seal Class B, Add</i>  | 18.63                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 39.75                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 37.27                     |                         |
| 23 31 13     | 13-0254 | LF 18" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 146.60                    | 78.68                   |
|              |         | <i>For Seal Class B, Add</i>  | 19.67                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 41.96                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 39.34                     |                         |
| 23 31 13     | 13-0255 | LF 18" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 154.31                    | 82.83                   |
|              |         | <i>For Seal Class B, Add</i>  | 20.71                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 44.17                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 41.41                     |                         |
| 23 31 13     | 13-0256 | LF 18" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 162.02                    | 86.97                   |
|              |         | <i>For Seal Class B, Add</i>  | 21.74                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 46.38                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 43.48                     |                         |
| 23 31 13     | 13-0257 | LF 18" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.73                    | 91.10                   |
|              |         | <i>For Seal Class B, Add</i>  | 22.77                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 48.59                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 45.55                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0258 LF 18" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 177.46                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.62                     |                         |
| 23 31 13 13-0259 LF 18" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 185.18                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0260 LF 20" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 154.31                    | 82.83                   |
| For Seal Class B, Add  | 20.71                     |                         |
| For Seal Class A, Add  | 44.17                     |                         |
| For Work In Restricted Working Space, Add  | 41.41                     |                         |
| 23 31 13 13-0261 LF 20" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 162.02                    | 86.97                   |
| For Seal Class B, Add  | 21.74                     |                         |
| For Seal Class A, Add  | 46.38                     |                         |
| For Work In Restricted Working Space, Add  | 43.48                     |                         |
| 23 31 13 13-0262 LF 20" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.73                    | 91.10                   |
| For Seal Class B, Add  | 22.77                     |                         |
| For Seal Class A, Add  | 48.59                     |                         |
| For Work In Restricted Working Space, Add  | 45.55                     |                         |
| 23 31 13 13-0263 LF 20" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 177.46                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.62                     |                         |
| 23 31 13 13-0264 LF 20" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 185.18                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0265 LF 20" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 192.88                    | 103.52                  |
| For Seal Class B, Add  | 25.88                     |                         |
| For Seal Class A, Add  | 55.21                     |                         |
| For Work In Restricted Working Space, Add  | 51.76                     |                         |
| 23 31 13 13-0266 LF 22" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.73                    | 91.10                   |
| For Seal Class B, Add  | 22.77                     |                         |
| For Seal Class A, Add  | 48.59                     |                         |
| For Work In Restricted Working Space, Add  | 45.55                     |                         |
| 23 31 13 13-0267 LF 22" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 177.46                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.62                     |                         |
| 23 31 13 13-0268 LF 22" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 185.18                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0269 LF 22" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 192.88                    | 103.52                  |
| For Seal Class B, Add  | 25.88                     |                         |
| For Seal Class A, Add  | 55.21                     |                         |
| For Work In Restricted Working Space, Add  | 51.76                     |                         |
| 23 31 13 13-0270 LF 22" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 200.61                    | 107.67                  |
| For Seal Class B, Add  | 26.92                     |                         |
| For Seal Class A, Add  | 57.42                     |                         |
| For Work In Restricted Working Space, Add  | 53.84                     |                         |
| 23 31 13 13-0271 LF 24" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 185.18                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0272 LF 24" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 192.88                    | 103.52                  |
| For Seal Class B, Add  | 25.88                     |                         |
| For Seal Class A, Add  | 55.21                     |                         |
| For Work In Restricted Working Space, Add  | 51.76                     |                         |
| 23 31 13 13-0273 LF 24" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 200.61                    | 107.67                  |
| For Seal Class B, Add  | 26.92                     |                         |
| For Seal Class A, Add  | 57.42                     |                         |
| For Work In Restricted Working Space, Add  | 53.84                     |                         |
| 23 31 13 13-0274 LF 24" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 208.32                    | 111.82                  |
| For Seal Class B, Add  | 27.95                     |                         |
| For Seal Class A, Add  | 59.63                     |                         |
| For Work In Restricted Working Space, Add  | 55.91                     |                         |
| 23 31 13 13-0275 LF 26" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 200.61                    | 107.67                  |
| For Seal Class B, Add  | 26.92                     |                         |
| For Seal Class A, Add  | 57.42                     |                         |
| For Work In Restricted Working Space, Add  | 53.84                     |                         |
| 23 31 13 13-0276 LF 26" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 208.32                    | 111.82                  |
| For Seal Class B, Add  | 27.95                     |                         |
| For Seal Class A, Add  | 59.63                     |                         |
| For Work In Restricted Working Space, Add  | 55.91                     |                         |
| 23 31 13 13-0277 LF 26" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 216.02                    | 115.94                  |
| For Seal Class B, Add  | 28.99                     |                         |
| For Seal Class A, Add  | 61.84                     |                         |
| For Work In Restricted Working Space, Add  | 57.97                     |                         |
| 23 31 13 13-0278 LF 28" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 216.02                    | 115.94                  |
| For Seal Class B, Add  | 28.99                     |                         |
| For Seal Class A, Add  | 61.84                     |                         |
| For Work In Restricted Working Space, Add  | 57.97                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 23 31 13 13-0279        | LF  | 28" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork          | 223.74                    | 120.09                  |
|                         |     | <i>For Seal Class B, Add</i>  | 30.02                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 64.04                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 60.04                     |                         |
| 23 31 13 13-0280        | LF  | 30" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork          | 231.47                    | 124.23                  |
|                         |     | <i>For Seal Class B, Add</i>  | 31.06                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 66.26                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 62.12                     |                         |
| <b>23 31 13 13-0281</b> |     | <b>22 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small> |                           |                         |
| 23 31 13 13-0282        | LF  | 4" x 4", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork            | 31.57                     | 16.56                   |
|                         |     | <i>For Seal Class B, Add</i>  | 4.14                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 8.84                      |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 8.28                      |                         |
| 23 31 13 13-0283        | LF  | 4" x 6", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork            | 39.47                     | 20.70                   |
|                         |     | <i>For Seal Class B, Add</i>  | 5.18                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 11.05                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 10.36                     |                         |
| 23 31 13 13-0284        | LF  | 4" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork            | 47.35                     | 24.84                   |
|                         |     | <i>For Seal Class B, Add</i>  | 6.21                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 13.25                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 12.42                     |                         |
| 23 31 13 13-0285        | LF  | 4" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 55.24                     | 28.99                   |
|                         |     | <i>For Seal Class B, Add</i>  | 7.25                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 15.46                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 14.49                     |                         |
| 23 31 13 13-0286        | LF  | 4" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 63.13                     | 33.14                   |
|                         |     | <i>For Seal Class B, Add</i>  | 8.28                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 17.67                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 16.56                     |                         |
| 23 31 13 13-0287        | LF  | 4" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 71.03                     | 37.27                   |
|                         |     | <i>For Seal Class B, Add</i>  | 9.32                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 19.88                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 18.64                     |                         |
| 23 31 13 13-0288        | LF  | 4" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 78.92                     | 41.41                   |
|                         |     | <i>For Seal Class B, Add</i>  | 10.35                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 22.09                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 20.71                     |                         |
| 23 31 13 13-0289        | LF  | 6" x 6", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork            | 47.35                     | 24.84                   |
|                         |     | <i>For Seal Class B, Add</i>  | 6.21                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 13.25                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 12.42                     |                         |
| 23 31 13 13-0290        | LF  | 6" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork            | 55.24                     | 28.99                   |
|                         |     | <i>For Seal Class B, Add</i>  | 7.25                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 15.46                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 14.49                     |                         |
| 23 31 13 13-0291        | LF  | 6" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 63.13                     | 33.14                   |
|                         |     | <i>For Seal Class B, Add</i>  | 8.28                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 17.67                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 16.56                     |                         |
| 23 31 13 13-0292        | LF  | 6" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 71.03                     | 37.27                   |
|                         |     | <i>For Seal Class B, Add</i>  | 9.32                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 19.88                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 18.64                     |                         |
| 23 31 13 13-0293        | LF  | 6" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 78.92                     | 41.41                   |
|                         |     | <i>For Seal Class B, Add</i>  | 10.35                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 22.09                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 20.71                     |                         |
| 23 31 13 13-0294        | LF  | 6" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 86.81                     | 45.55                   |
|                         |     | <i>For Seal Class B, Add</i>  | 11.39                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 24.29                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 22.78                     |                         |
| 23 31 13 13-0295        | LF  | 8" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork            | 63.13                     | 33.14                   |
|                         |     | <i>For Seal Class B, Add</i>  | 8.28                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 17.67                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 16.56                     |                         |
| 23 31 13 13-0296        | LF  | 8" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 71.03                     | 37.27                   |
|                         |     | <i>For Seal Class B, Add</i>  | 9.32                      |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 19.88                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 18.64                     |                         |
| 23 31 13 13-0297        | LF  | 8" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 78.92                     | 41.41                   |
|                         |     | <i>For Seal Class B, Add</i>  | 10.35                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 22.09                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 20.71                     |                         |
| 23 31 13 13-0298        | LF  | 8" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 86.81                     | 45.55                   |
|                         |     | <i>For Seal Class B, Add</i>  | 11.39                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 24.29                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 22.78                     |                         |
| 23 31 13 13-0299        | LF  | 8" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork           | 94.71                     | 49.69                   |
|                         |     | <i>For Seal Class B, Add</i>  | 12.42                     |                         |
|                         |     | <i>For Seal Class A, Add</i>  | 26.51                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>                                  | 24.85                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0300 LF 8" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 102.60                    | 53.84                   |
| <i>For Seal Class B, Add</i>   | 13.46                     |                         |
| <i>For Seal Class A, Add</i>   | 28.71                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.92                     |                         |
| 23 31 13 13-0301 LF 8" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 110.48                    | 57.98                   |
| <i>For Seal Class B, Add</i>   | 14.49                     |                         |
| <i>For Seal Class A, Add</i>   | 30.92                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 28.99                     |                         |
| 23 31 13 13-0302 LF 8" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 118.37                    | 62.12                   |
| <i>For Seal Class B, Add</i>   | 15.53                     |                         |
| <i>For Seal Class A, Add</i>   | 33.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 31.06                     |                         |
| 23 31 13 13-0303 LF 8" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 126.27                    | 66.25                   |
| <i>For Seal Class B, Add</i>   | 16.56                     |                         |
| <i>For Seal Class A, Add</i>   | 35.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 33.13                     |                         |
| 23 31 13 13-0304 LF 10" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 78.92                     | 41.41                   |
| <i>For Seal Class B, Add</i>   | 10.35                     |                         |
| <i>For Seal Class A, Add</i>   | 22.09                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 20.71                     |                         |
| 23 31 13 13-0305 LF 10" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 86.81                     | 45.55                   |
| <i>For Seal Class B, Add</i>   | 11.39                     |                         |
| <i>For Seal Class A, Add</i>   | 24.29                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 22.78                     |                         |
| 23 31 13 13-0306 LF 10" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 94.71                     | 49.69                   |
| <i>For Seal Class B, Add</i>   | 12.42                     |                         |
| <i>For Seal Class A, Add</i>   | 26.51                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.85                     |                         |
| 23 31 13 13-0307 LF 10" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 102.60                    | 53.84                   |
| <i>For Seal Class B, Add</i>   | 13.46                     |                         |
| <i>For Seal Class A, Add</i>   | 28.71                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.92                     |                         |
| 23 31 13 13-0308 LF 10" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 110.48                    | 57.98                   |
| <i>For Seal Class B, Add</i>   | 14.49                     |                         |
| <i>For Seal Class A, Add</i>   | 30.92                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 28.99                     |                         |
| 23 31 13 13-0309 LF 10" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 118.37                    | 62.12                   |
| <i>For Seal Class B, Add</i>   | 15.53                     |                         |
| <i>For Seal Class A, Add</i>   | 33.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 31.06                     |                         |
| 23 31 13 13-0310 LF 10" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 126.27                    | 66.25                   |
| <i>For Seal Class B, Add</i>   | 16.56                     |                         |
| <i>For Seal Class A, Add</i>   | 35.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 33.13                     |                         |
| 23 31 13 13-0311 LF 10" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 134.15                    | 70.40                   |
| <i>For Seal Class B, Add</i>   | 17.60                     |                         |
| <i>For Seal Class A, Add</i>   | 37.55                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 35.20                     |                         |
| 23 31 13 13-0312 LF 10" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 142.04                    | 74.53                   |
| <i>For Seal Class B, Add</i>   | 18.63                     |                         |
| <i>For Seal Class A, Add</i>   | 39.75                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 37.27                     |                         |
| 23 31 13 13-0313 LF 10" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 149.94                    | 78.68                   |
| <i>For Seal Class B, Add</i>   | 19.67                     |                         |
| <i>For Seal Class A, Add</i>   | 41.96                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 39.34                     |                         |
| 23 31 13 13-0314 LF 10" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 157.83                    | 82.83                   |
| <i>For Seal Class B, Add</i>   | 20.71                     |                         |
| <i>For Seal Class A, Add</i>   | 44.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 41.41                     |                         |
| 23 31 13 13-0315 LF 10" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 165.71                    | 86.97                   |
| <i>For Seal Class B, Add</i>   | 21.74                     |                         |
| <i>For Seal Class A, Add</i>   | 46.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 43.48                     |                         |
| 23 31 13 13-0316 LF 12" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 94.71                     | 49.69                   |
| <i>For Seal Class B, Add</i>   | 12.42                     |                         |
| <i>For Seal Class A, Add</i>   | 26.51                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.85                     |                         |
| 23 31 13 13-0317 LF 12" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 102.60                    | 53.84                   |
| <i>For Seal Class B, Add</i>   | 13.46                     |                         |
| <i>For Seal Class A, Add</i>   | 28.71                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.92                     |                         |
| 23 31 13 13-0318 LF 12" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 110.48                    | 57.98                   |
| <i>For Seal Class B, Add</i>   | 14.49                     |                         |
| <i>For Seal Class A, Add</i>   | 30.92                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 28.99                     |                         |
| 23 31 13 13-0319 LF 12" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 118.37                    | 62.12                   |
| <i>For Seal Class B, Add</i>   | 15.53                     |                         |
| <i>For Seal Class A, Add</i>   | 33.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 31.06                     |                         |
| 23 31 13 13-0320 LF 12" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 126.27                    | 66.25                   |
| <i>For Seal Class B, Add</i>   | 16.56                     |                         |
| <i>For Seal Class A, Add</i>   | 35.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 33.13                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0321 LF 12" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 134.15                    | 70.40                   |
| For Seal Class B, Add  | 17.60                     |                         |
| For Seal Class A, Add  | 37.55                     |                         |
| For Work In Restricted Working Space, Add  | 35.20                     |                         |
| 23 31 13 13-0322 LF 12" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 142.04                    | 74.53                   |
| For Seal Class B, Add  | 18.63                     |                         |
| For Seal Class A, Add  | 39.75                     |                         |
| For Work In Restricted Working Space, Add  | 37.27                     |                         |
| 23 31 13 13-0323 LF 12" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 149.94                    | 78.68                   |
| For Seal Class B, Add  | 19.67                     |                         |
| For Seal Class A, Add  | 41.96                     |                         |
| For Work In Restricted Working Space, Add  | 39.34                     |                         |
| 23 31 13 13-0324 LF 12" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 157.83                    | 82.83                   |
| For Seal Class B, Add  | 20.71                     |                         |
| For Seal Class A, Add  | 44.17                     |                         |
| For Work In Restricted Working Space, Add  | 41.41                     |                         |
| 23 31 13 13-0325 LF 12" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 165.71                    | 86.97                   |
| For Seal Class B, Add  | 21.74                     |                         |
| For Seal Class A, Add  | 46.38                     |                         |
| For Work In Restricted Working Space, Add  | 43.48                     |                         |
| 23 31 13 13-0326 LF 12" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 173.60                    | 91.10                   |
| For Seal Class B, Add  | 22.77                     |                         |
| For Seal Class A, Add  | 48.59                     |                         |
| For Work In Restricted Working Space, Add  | 45.55                     |                         |
| 23 31 13 13-0327 LF 12" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 181.50                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.62                     |                         |
| 23 31 13 13-0328 LF 12" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 189.40                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0329 LF 14" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 110.48                    | 57.98                   |
| For Seal Class B, Add  | 14.49                     |                         |
| For Seal Class A, Add  | 30.92                     |                         |
| For Work In Restricted Working Space, Add  | 28.99                     |                         |
| 23 31 13 13-0330 LF 14" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 118.37                    | 62.12                   |
| For Seal Class B, Add  | 15.53                     |                         |
| For Seal Class A, Add  | 33.13                     |                         |
| For Work In Restricted Working Space, Add  | 31.06                     |                         |
| 23 31 13 13-0331 LF 14" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 126.27                    | 66.25                   |
| For Seal Class B, Add  | 16.56                     |                         |
| For Seal Class A, Add  | 35.34                     |                         |
| For Work In Restricted Working Space, Add  | 33.13                     |                         |
| 23 31 13 13-0332 LF 14" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 134.15                    | 70.40                   |
| For Seal Class B, Add  | 17.60                     |                         |
| For Seal Class A, Add  | 37.55                     |                         |
| For Work In Restricted Working Space, Add  | 35.20                     |                         |
| 23 31 13 13-0333 LF 14" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 142.04                    | 74.53                   |
| For Seal Class B, Add  | 18.63                     |                         |
| For Seal Class A, Add  | 39.75                     |                         |
| For Work In Restricted Working Space, Add  | 37.27                     |                         |
| 23 31 13 13-0334 LF 14" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 149.94                    | 78.68                   |
| For Seal Class B, Add  | 19.67                     |                         |
| For Seal Class A, Add  | 41.96                     |                         |
| For Work In Restricted Working Space, Add  | 39.34                     |                         |
| 23 31 13 13-0335 LF 14" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 157.83                    | 82.83                   |
| For Seal Class B, Add  | 20.71                     |                         |
| For Seal Class A, Add  | 44.17                     |                         |
| For Work In Restricted Working Space, Add  | 41.41                     |                         |
| 23 31 13 13-0336 LF 14" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 165.71                    | 86.97                   |
| For Seal Class B, Add  | 21.74                     |                         |
| For Seal Class A, Add  | 46.38                     |                         |
| For Work In Restricted Working Space, Add  | 43.48                     |                         |
| 23 31 13 13-0337 LF 14" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 173.60                    | 91.10                   |
| For Seal Class B, Add  | 22.77                     |                         |
| For Seal Class A, Add  | 48.59                     |                         |
| For Work In Restricted Working Space, Add  | 45.55                     |                         |
| 23 31 13 13-0338 LF 14" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 181.50                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.62                     |                         |
| 23 31 13 13-0339 LF 14" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 189.40                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0340 LF 14" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 197.28                    | 103.52                  |
| For Seal Class B, Add  | 25.88                     |                         |
| For Seal Class A, Add  | 55.21                     |                         |
| For Work In Restricted Working Space, Add  | 51.76                     |                         |
| 23 31 13 13-0341 LF 16" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 126.27                    | 66.25                   |
| For Seal Class B, Add  | 16.56                     |                         |
| For Seal Class A, Add  | 35.34                     |                         |
| For Work In Restricted Working Space, Add  | 33.13                     |                         |



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST         | DEMOLITION<br>UNIT COST |
|----------|---------|-----|--|-----------------------------------|-------------------------|
| 23 31 13 | 13-0342 | LF  | 16" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 134.15<br>17.60<br>37.55<br>35.20 | 70.40                   |
| 23 31 13 | 13-0343 | LF  | 16" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 142.04<br>18.63<br>39.75<br>37.27 | 74.53                   |
| 23 31 13 | 13-0344 | LF  | 16" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 149.94<br>19.67<br>41.96<br>39.34 | 78.68                   |
| 23 31 13 | 13-0345 | LF  | 16" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 157.83<br>20.71<br>44.17<br>41.41 | 82.83                   |
| 23 31 13 | 13-0346 | LF  | 16" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 165.71<br>21.74<br>46.38<br>43.48 | 86.97                   |
| 23 31 13 | 13-0347 | LF  | 16" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 173.60<br>22.77<br>48.59<br>45.55 | 91.10                   |
| 23 31 13 | 13-0348 | LF  | 16" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 181.50<br>23.81<br>50.80<br>47.62 | 95.24                   |
| 23 31 13 | 13-0349 | LF  | 16" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 189.40<br>24.85<br>53.01<br>49.70 | 99.39                   |
| 23 31 13 | 13-0350 | LF  | 16" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 197.28<br>25.88<br>55.21<br>51.76 | 103.52                  |
| 23 31 13 | 13-0351 | LF  | 16" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 205.18<br>26.92<br>57.42<br>53.84 | 107.67                  |
| 23 31 13 | 13-0352 | LF  | 16" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 213.07<br>27.95<br>59.63<br>55.91 | 111.82                  |
| 23 31 13 | 13-0353 | LF  | 16" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 220.95<br>28.99<br>61.84<br>57.97 | 115.94                  |
| 23 31 13 | 13-0354 | LF  | 16" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 228.84<br>30.02<br>64.04<br>60.04 | 120.09                  |
| 23 31 13 | 13-0355 | LF  | 16" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 236.75<br>31.06<br>66.26<br>62.12 | 124.23                  |
| 23 31 13 | 13-0356 | LF  | 18" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 142.04<br>18.63<br>39.75<br>37.27 | 74.53                   |
| 23 31 13 | 13-0357 | LF  | 18" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 149.94<br>19.67<br>41.96<br>39.34 | 78.68                   |
| 23 31 13 | 13-0358 | LF  | 18" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 157.83<br>20.71<br>44.17<br>41.41 | 82.83                   |
| 23 31 13 | 13-0359 | LF  | 18" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 165.71<br>21.74<br>46.38<br>43.48 | 86.97                   |
| 23 31 13 | 13-0360 | LF  | 18" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 173.60<br>22.77<br>48.59<br>45.55 | 91.10                   |
| 23 31 13 | 13-0361 | LF  | 18" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 181.50<br>23.81<br>50.80<br>47.62 | 95.24                   |
| 23 31 13 | 13-0362 | LF  | 18" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 189.40<br>24.85<br>53.01<br>49.70 | 99.39                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0363 LF 18" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 197.28                    | 103.52                  |
| For Seal Class B, Add  | 25.88                     |                         |
| For Seal Class A, Add  | 55.21                     |                         |
| For Work In Restricted Working Space, Add  | 51.76                     |                         |
| 23 31 13 13-0364 LF 18" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 205.18                    | 107.67                  |
| For Seal Class B, Add  | 26.92                     |                         |
| For Seal Class A, Add  | 57.42                     |                         |
| For Work In Restricted Working Space, Add  | 53.84                     |                         |
| 23 31 13 13-0365 LF 18" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 213.07                    | 111.82                  |
| For Seal Class B, Add  | 27.95                     |                         |
| For Seal Class A, Add  | 59.63                     |                         |
| For Work In Restricted Working Space, Add  | 55.91                     |                         |
| 23 31 13 13-0366 LF 18" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 220.95                    | 115.94                  |
| For Seal Class B, Add  | 28.99                     |                         |
| For Seal Class A, Add  | 61.84                     |                         |
| For Work In Restricted Working Space, Add  | 57.97                     |                         |
| 23 31 13 13-0367 LF 18" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 228.84                    | 120.09                  |
| For Seal Class B, Add  | 30.02                     |                         |
| For Seal Class A, Add  | 64.04                     |                         |
| For Work In Restricted Working Space, Add  | 60.04                     |                         |
| 23 31 13 13-0368 LF 18" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 236.75                    | 124.23                  |
| For Seal Class B, Add  | 31.06                     |                         |
| For Seal Class A, Add  | 66.26                     |                         |
| For Work In Restricted Working Space, Add  | 62.12                     |                         |
| 23 31 13 13-0369 LF 18" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 244.64                    | 128.37                  |
| For Seal Class B, Add  | 32.09                     |                         |
| For Seal Class A, Add  | 68.47                     |                         |
| For Work In Restricted Working Space, Add  | 64.19                     |                         |
| 23 31 13 13-0370 LF 18" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 252.52                    | 132.51                  |
| For Seal Class B, Add  | 33.13                     |                         |
| For Seal Class A, Add  | 70.67                     |                         |
| For Work In Restricted Working Space, Add  | 66.26                     |                         |
| 23 31 13 13-0371 LF 20" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 157.83                    | 82.83                   |
| For Seal Class B, Add  | 20.71                     |                         |
| For Seal Class A, Add  | 44.17                     |                         |
| For Work In Restricted Working Space, Add  | 41.41                     |                         |
| 23 31 13 13-0372 LF 20" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 165.71                    | 86.97                   |
| For Seal Class B, Add  | 21.74                     |                         |
| For Seal Class A, Add  | 46.38                     |                         |
| For Work In Restricted Working Space, Add  | 43.48                     |                         |
| 23 31 13 13-0373 LF 20" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 173.60                    | 91.10                   |
| For Seal Class B, Add  | 22.77                     |                         |
| For Seal Class A, Add  | 48.59                     |                         |
| For Work In Restricted Working Space, Add  | 45.55                     |                         |
| 23 31 13 13-0374 LF 20" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 181.50                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.62                     |                         |
| 23 31 13 13-0375 LF 20" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 189.40                    | 99.39                   |
| For Seal Class B, Add  | 24.85                     |                         |
| For Seal Class A, Add  | 53.01                     |                         |
| For Work In Restricted Working Space, Add  | 49.70                     |                         |
| 23 31 13 13-0376 LF 20" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 197.28                    | 103.52                  |
| For Seal Class B, Add  | 25.88                     |                         |
| For Seal Class A, Add  | 55.21                     |                         |
| For Work In Restricted Working Space, Add  | 51.76                     |                         |
| 23 31 13 13-0377 LF 20" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 205.18                    | 107.67                  |
| For Seal Class B, Add  | 26.92                     |                         |
| For Seal Class A, Add  | 57.42                     |                         |
| For Work In Restricted Working Space, Add  | 53.84                     |                         |
| 23 31 13 13-0378 LF 20" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 213.07                    | 111.82                  |
| For Seal Class B, Add  | 27.95                     |                         |
| For Seal Class A, Add  | 59.63                     |                         |
| For Work In Restricted Working Space, Add  | 55.91                     |                         |
| 23 31 13 13-0379 LF 20" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 220.95                    | 115.94                  |
| For Seal Class B, Add  | 28.99                     |                         |
| For Seal Class A, Add  | 61.84                     |                         |
| For Work In Restricted Working Space, Add  | 57.97                     |                         |
| 23 31 13 13-0380 LF 20" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 228.84                    | 120.09                  |
| For Seal Class B, Add  | 30.02                     |                         |
| For Seal Class A, Add  | 64.04                     |                         |
| For Work In Restricted Working Space, Add  | 60.04                     |                         |
| 23 31 13 13-0381 LF 20" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 236.75                    | 124.23                  |
| For Seal Class B, Add  | 31.06                     |                         |
| For Seal Class A, Add  | 66.26                     |                         |
| For Work In Restricted Working Space, Add  | 62.12                     |                         |
| 23 31 13 13-0382 LF 20" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 244.64                    | 128.37                  |
| For Seal Class B, Add  | 32.09                     |                         |
| For Seal Class A, Add  | 68.47                     |                         |
| For Work In Restricted Working Space, Add  | 64.19                     |                         |
| 23 31 13 13-0383 LF 20" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 252.52                    | 132.51                  |
| For Seal Class B, Add  | 33.13                     |                         |
| For Seal Class A, Add  | 70.67                     |                         |
| For Work In Restricted Working Space, Add  | 66.26                     |                         |



**Heating, Ventilating, and Air-Conditioning (HVAC) 23**

HVAC Air Distribution 23 30

HVAC Ducts and Casings 23 31

23

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 23 31 13 | 13-0384 | LF  | 20" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 260.42                 | 136.66               |
|          |         |     | For Seal Class B, Add  | 34.16                  |                      |
|          |         |     | For Seal Class A, Add  | 72.88                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 68.33                  |                      |
| 23 31 13 | 13-0385 | LF  | 20" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 268.31                 | 140.81               |
|          |         |     | For Seal Class B, Add  | 35.20                  |                      |
|          |         |     | For Seal Class A, Add  | 75.09                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 70.40                  |                      |
| 23 31 13 | 13-0386 | LF  | 22" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 173.60                 | 91.10                |
|          |         |     | For Seal Class B, Add  | 22.77                  |                      |
|          |         |     | For Seal Class A, Add  | 48.59                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 45.55                  |                      |
| 23 31 13 | 13-0387 | LF  | 22" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 181.50                 | 95.24                |
|          |         |     | For Seal Class B, Add  | 23.81                  |                      |
|          |         |     | For Seal Class A, Add  | 50.80                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 47.62                  |                      |
| 23 31 13 | 13-0388 | LF  | 22" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 189.40                 | 99.39                |
|          |         |     | For Seal Class B, Add  | 24.85                  |                      |
|          |         |     | For Seal Class A, Add  | 53.01                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 49.70                  |                      |
| 23 31 13 | 13-0389 | LF  | 22" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 197.28                 | 103.52               |
|          |         |     | For Seal Class B, Add  | 25.88                  |                      |
|          |         |     | For Seal Class A, Add  | 55.21                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 51.76                  |                      |
| 23 31 13 | 13-0390 | LF  | 22" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 205.18                 | 107.67               |
|          |         |     | For Seal Class B, Add  | 26.92                  |                      |
|          |         |     | For Seal Class A, Add  | 57.42                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 53.84                  |                      |
| 23 31 13 | 13-0391 | LF  | 22" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 213.07                 | 111.82               |
|          |         |     | For Seal Class B, Add  | 27.95                  |                      |
|          |         |     | For Seal Class A, Add  | 59.63                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 55.91                  |                      |
| 23 31 13 | 13-0392 | LF  | 22" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 220.95                 | 115.94               |
|          |         |     | For Seal Class B, Add  | 28.99                  |                      |
|          |         |     | For Seal Class A, Add  | 61.84                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 57.97                  |                      |
| 23 31 13 | 13-0393 | LF  | 22" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 228.84                 | 120.09               |
|          |         |     | For Seal Class B, Add  | 30.02                  |                      |
|          |         |     | For Seal Class A, Add  | 64.04                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 60.04                  |                      |
| 23 31 13 | 13-0394 | LF  | 22" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 236.75                 | 124.23               |
|          |         |     | For Seal Class B, Add  | 31.06                  |                      |
|          |         |     | For Seal Class A, Add  | 66.26                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 62.12                  |                      |
| 23 31 13 | 13-0395 | LF  | 22" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 244.64                 | 128.37               |
|          |         |     | For Seal Class B, Add  | 32.09                  |                      |
|          |         |     | For Seal Class A, Add  | 68.47                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 64.19                  |                      |
| 23 31 13 | 13-0396 | LF  | 22" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 252.52                 | 132.51               |
|          |         |     | For Seal Class B, Add  | 33.13                  |                      |
|          |         |     | For Seal Class A, Add  | 70.67                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 66.26                  |                      |
| 23 31 13 | 13-0397 | LF  | 22" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 260.42                 | 136.66               |
|          |         |     | For Seal Class B, Add  | 34.16                  |                      |
|          |         |     | For Seal Class A, Add  | 72.88                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 68.33                  |                      |
| 23 31 13 | 13-0398 | LF  | 22" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 268.31                 | 140.81               |
|          |         |     | For Seal Class B, Add  | 35.20                  |                      |
|          |         |     | For Seal Class A, Add  | 75.09                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 70.40                  |                      |
| 23 31 13 | 13-0399 | LF  | 22" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 276.20                 | 144.93               |
|          |         |     | For Seal Class B, Add  | 36.23                  |                      |
|          |         |     | For Seal Class A, Add  | 77.30                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 72.47                  |                      |
| 23 31 13 | 13-0400 | LF  | 24" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 189.40                 | 99.39                |
|          |         |     | For Seal Class B, Add  | 24.85                  |                      |
|          |         |     | For Seal Class A, Add  | 53.01                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 49.70                  |                      |
| 23 31 13 | 13-0401 | LF  | 24" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 197.28                 | 103.52               |
|          |         |     | For Seal Class B, Add  | 25.88                  |                      |
|          |         |     | For Seal Class A, Add  | 55.21                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 51.76                  |                      |
| 23 31 13 | 13-0402 | LF  | 24" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 205.18                 | 107.67               |
|          |         |     | For Seal Class B, Add  | 26.92                  |                      |
|          |         |     | For Seal Class A, Add  | 57.42                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 53.84                  |                      |
| 23 31 13 | 13-0403 | LF  | 24" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 213.07                 | 111.82               |
|          |         |     | For Seal Class B, Add  | 27.95                  |                      |
|          |         |     | For Seal Class A, Add  | 59.63                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 55.91                  |                      |
| 23 31 13 | 13-0404 | LF  | 24" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 220.95                 | 115.94               |
|          |         |     | For Seal Class B, Add  | 28.99                  |                      |
|          |         |     | For Seal Class A, Add  | 61.84                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 57.97                  |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0405 LF 24" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 228.84                    | 120.09                  |
| For Seal Class B, Add  | 30.02                     |                         |
| For Seal Class A, Add  | 64.04                     |                         |
| For Work In Restricted Working Space, Add  | 60.04                     |                         |
| 23 31 13 13-0406 LF 24" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 236.75                    | 124.23                  |
| For Seal Class B, Add  | 31.06                     |                         |
| For Seal Class A, Add  | 66.26                     |                         |
| For Work In Restricted Working Space, Add  | 62.12                     |                         |
| 23 31 13 13-0407 LF 24" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 244.64                    | 128.37                  |
| For Seal Class B, Add  | 32.09                     |                         |
| For Seal Class A, Add  | 68.47                     |                         |
| For Work In Restricted Working Space, Add  | 64.19                     |                         |
| 23 31 13 13-0408 LF 24" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 252.52                    | 132.51                  |
| For Seal Class B, Add  | 33.13                     |                         |
| For Seal Class A, Add  | 70.67                     |                         |
| For Work In Restricted Working Space, Add  | 66.26                     |                         |
| 23 31 13 13-0409 LF 24" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 260.42                    | 136.66                  |
| For Seal Class B, Add  | 34.16                     |                         |
| For Seal Class A, Add  | 72.88                     |                         |
| For Work In Restricted Working Space, Add  | 68.33                     |                         |
| 23 31 13 13-0410 LF 24" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 268.31                    | 140.81                  |
| For Seal Class B, Add  | 35.20                     |                         |
| For Seal Class A, Add  | 75.09                     |                         |
| For Work In Restricted Working Space, Add  | 70.40                     |                         |
| 23 31 13 13-0411 LF 24" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 276.20                    | 144.93                  |
| For Seal Class B, Add  | 36.23                     |                         |
| For Seal Class A, Add  | 77.30                     |                         |
| For Work In Restricted Working Space, Add  | 72.47                     |                         |
| 23 31 13 13-0412 LF 24" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 284.09                    | 149.08                  |
| For Seal Class B, Add  | 37.27                     |                         |
| For Seal Class A, Add  | 79.51                     |                         |
| For Work In Restricted Working Space, Add  | 74.54                     |                         |
| 23 31 13 13-0413 LF 26" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 205.18                    | 107.67                  |
| For Seal Class B, Add  | 26.92                     |                         |
| For Seal Class A, Add  | 57.42                     |                         |
| For Work In Restricted Working Space, Add  | 53.84                     |                         |
| 23 31 13 13-0414 LF 26" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 213.07                    | 111.82                  |
| For Seal Class B, Add  | 27.95                     |                         |
| For Seal Class A, Add  | 59.63                     |                         |
| For Work In Restricted Working Space, Add  | 55.91                     |                         |
| 23 31 13 13-0415 LF 26" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 220.95                    | 115.94                  |
| For Seal Class B, Add  | 28.99                     |                         |
| For Seal Class A, Add  | 61.84                     |                         |
| For Work In Restricted Working Space, Add  | 57.97                     |                         |
| 23 31 13 13-0416 LF 26" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 228.84                    | 120.09                  |
| For Seal Class B, Add  | 30.02                     |                         |
| For Seal Class A, Add  | 64.04                     |                         |
| For Work In Restricted Working Space, Add  | 60.04                     |                         |
| 23 31 13 13-0417 LF 26" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 236.75                    | 124.23                  |
| For Seal Class B, Add  | 31.06                     |                         |
| For Seal Class A, Add  | 66.26                     |                         |
| For Work In Restricted Working Space, Add  | 62.12                     |                         |
| 23 31 13 13-0418 LF 26" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 244.64                    | 128.37                  |
| For Seal Class B, Add  | 32.09                     |                         |
| For Seal Class A, Add  | 68.47                     |                         |
| For Work In Restricted Working Space, Add  | 64.19                     |                         |
| 23 31 13 13-0419 LF 26" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 252.52                    | 132.51                  |
| For Seal Class B, Add  | 33.13                     |                         |
| For Seal Class A, Add  | 70.67                     |                         |
| For Work In Restricted Working Space, Add  | 66.26                     |                         |
| 23 31 13 13-0420 LF 26" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 260.42                    | 136.66                  |
| For Seal Class B, Add  | 34.16                     |                         |
| For Seal Class A, Add  | 72.88                     |                         |
| For Work In Restricted Working Space, Add  | 68.33                     |                         |
| 23 31 13 13-0421 LF 26" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 268.31                    | 140.81                  |
| For Seal Class B, Add  | 35.20                     |                         |
| For Seal Class A, Add  | 75.09                     |                         |
| For Work In Restricted Working Space, Add  | 70.40                     |                         |
| 23 31 13 13-0422 LF 26" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 276.20                    | 144.93                  |
| For Seal Class B, Add  | 36.23                     |                         |
| For Seal Class A, Add  | 77.30                     |                         |
| For Work In Restricted Working Space, Add  | 72.47                     |                         |
| 23 31 13 13-0423 LF 26" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 284.09                    | 149.08                  |
| For Seal Class B, Add  | 37.27                     |                         |
| For Seal Class A, Add  | 79.51                     |                         |
| For Work In Restricted Working Space, Add  | 74.54                     |                         |
| 23 31 13 13-0424 LF 26" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 291.99                    | 153.22                  |
| For Seal Class B, Add  | 38.31                     |                         |
| For Seal Class A, Add  | 81.72                     |                         |
| For Work In Restricted Working Space, Add  | 76.61                     |                         |
| 23 31 13 13-0425 LF 28" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 220.95                    | 115.94                  |
| For Seal Class B, Add  | 28.99                     |                         |
| For Seal Class A, Add  | 61.84                     |                         |
| For Work In Restricted Working Space, Add  | 57.97                     |                         |



|  |           |
|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b> |
| HVAC Air Distribution                                    | 23 30     |
| HVAC Ducts and Casings                                   | 23 31     |

| MINOR  | TOTAL DIRECT                      | DEMOLITION |
|--|-----------------------------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST                         | UNIT COST  |
| 23 31 13 13-0426 LF 28" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 228.84<br>30.02<br>64.04<br>60.04 | 120.09     |
| 23 31 13 13-0427 LF 28" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 236.75<br>31.06<br>66.26<br>62.12 | 124.23     |
| 23 31 13 13-0428 LF 28" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 244.64<br>32.09<br>68.47<br>64.19 | 128.37     |
| 23 31 13 13-0429 LF 28" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 252.52<br>33.13<br>70.67<br>66.26 | 132.51     |
| 23 31 13 13-0430 LF 28" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 260.42<br>34.16<br>72.88<br>68.33 | 136.66     |
| 23 31 13 13-0431 LF 28" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 268.31<br>35.20<br>75.09<br>70.40 | 140.81     |
| 23 31 13 13-0432 LF 28" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 276.20<br>36.23<br>77.30<br>72.47 | 144.93     |
| 23 31 13 13-0433 LF 28" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 284.09<br>37.27<br>79.51<br>74.54 | 149.08     |
| 23 31 13 13-0434 LF 28" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 291.99<br>38.31<br>81.72<br>76.61 | 153.22     |
| 23 31 13 13-0435 LF 28" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 299.88<br>39.34<br>83.93<br>78.68 | 157.36     |
| 23 31 13 13-0436 LF 30" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 236.75<br>31.06<br>66.26<br>62.12 | 124.23     |
| 23 31 13 13-0437 LF 30" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 244.64<br>32.09<br>68.47<br>64.19 | 128.37     |
| 23 31 13 13-0438 LF 30" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 252.52<br>33.13<br>70.67<br>66.26 | 132.51     |
| 23 31 13 13-0439 LF 30" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 260.42<br>34.16<br>72.88<br>68.33 | 136.66     |
| 23 31 13 13-0440 LF 30" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 268.31<br>35.20<br>75.09<br>70.40 | 140.81     |
| 23 31 13 13-0441 LF 30" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 276.20<br>36.23<br>77.30<br>72.47 | 144.93     |
| 23 31 13 13-0442 LF 30" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 284.09<br>37.27<br>79.51<br>74.54 | 149.08     |
| 23 31 13 13-0443 LF 30" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 291.99<br>38.31<br>81.72<br>76.61 | 153.22     |
| 23 31 13 13-0444 LF 30" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 299.88<br>39.34<br>83.93<br>78.68 | 157.36     |
| 23 31 13 13-0445 LF 30" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 307.77<br>40.38<br>86.13<br>80.75 | 161.51     |
| 23 31 13 13-0446 LF 32" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 252.52<br>33.13<br>70.67<br>66.26 | 132.51     |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI | UOM     | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--------------|---------|---|---------------------------|-------------------------|
| 23 31 13     | 13-0447 | LF 32" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 260.42                    | 136.66                  |
|              |         | <i>For Seal Class B, Add</i>  | 34.16                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 72.88                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 68.33                     |                         |
| 23 31 13     | 13-0448 | LF 32" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 268.31                    | 140.81                  |
|              |         | <i>For Seal Class B, Add</i>  | 35.20                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 75.09                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 70.40                     |                         |
| 23 31 13     | 13-0449 | LF 32" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 276.20                    | 144.93                  |
|              |         | <i>For Seal Class B, Add</i>  | 36.23                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 77.30                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 72.47                     |                         |
| 23 31 13     | 13-0450 | LF 32" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 284.09                    | 149.08                  |
|              |         | <i>For Seal Class B, Add</i>  | 37.27                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 79.51                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 74.54                     |                         |
| 23 31 13     | 13-0451 | LF 32" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 291.99                    | 153.22                  |
|              |         | <i>For Seal Class B, Add</i>  | 38.31                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 81.72                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 76.61                     |                         |
| 23 31 13     | 13-0452 | LF 32" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 299.88                    | 157.36                  |
|              |         | <i>For Seal Class B, Add</i>  | 39.34                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 83.93                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 78.68                     |                         |
| 23 31 13     | 13-0453 | LF 32" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 307.77                    | 161.51                  |
|              |         | <i>For Seal Class B, Add</i>  | 40.38                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 86.13                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 80.75                     |                         |
| 23 31 13     | 13-0454 | LF 32" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 315.66                    | 165.65                  |
|              |         | <i>For Seal Class B, Add</i>  | 41.41                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 88.34                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 82.82                     |                         |
| 23 31 13     | 13-0455 | LF 34" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 268.31                    | 140.81                  |
|              |         | <i>For Seal Class B, Add</i>  | 35.20                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 75.09                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 70.40                     |                         |
| 23 31 13     | 13-0456 | LF 34" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 276.20                    | 144.93                  |
|              |         | <i>For Seal Class B, Add</i>  | 36.23                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 77.30                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 72.47                     |                         |
| 23 31 13     | 13-0457 | LF 34" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 284.09                    | 149.08                  |
|              |         | <i>For Seal Class B, Add</i>  | 37.27                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 79.51                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 74.54                     |                         |
| 23 31 13     | 13-0458 | LF 34" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 291.99                    | 153.22                  |
|              |         | <i>For Seal Class B, Add</i>  | 38.31                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 81.72                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 76.61                     |                         |
| 23 31 13     | 13-0459 | LF 34" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 299.88                    | 157.36                  |
|              |         | <i>For Seal Class B, Add</i>  | 39.34                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 83.93                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 78.68                     |                         |
| 23 31 13     | 13-0460 | LF 34" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 307.77                    | 161.51                  |
|              |         | <i>For Seal Class B, Add</i>  | 40.38                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 86.13                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 80.75                     |                         |
| 23 31 13     | 13-0461 | LF 34" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 315.66                    | 165.65                  |
|              |         | <i>For Seal Class B, Add</i>  | 41.41                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 88.34                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 82.82                     |                         |
| 23 31 13     | 13-0462 | LF 34" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 323.55                    | 169.78                  |
|              |         | <i>For Seal Class B, Add</i>  | 42.45                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 90.55                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 84.89                     |                         |
| 23 31 13     | 13-0463 | LF 36" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 284.09                    | 149.08                  |
|              |         | <i>For Seal Class B, Add</i>  | 37.27                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 79.51                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 74.54                     |                         |
| 23 31 13     | 13-0464 | LF 36" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 291.99                    | 153.22                  |
|              |         | <i>For Seal Class B, Add</i>  | 38.31                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 81.72                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 76.61                     |                         |
| 23 31 13     | 13-0465 | LF 36" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 299.88                    | 157.36                  |
|              |         | <i>For Seal Class B, Add</i>  | 39.34                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 83.93                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 78.68                     |                         |
| 23 31 13     | 13-0466 | LF 36" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 307.77                    | 161.51                  |
|              |         | <i>For Seal Class B, Add</i>  | 40.38                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 86.13                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 80.75                     |                         |
| 23 31 13     | 13-0467 | LF 36" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 315.66                    | 165.65                  |
|              |         | <i>For Seal Class B, Add</i>  | 41.41                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 88.34                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 82.82                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0468 LF 36" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 323.55                    | 169.78                  |
| <i>For Seal Class B, Add</i>   | 42.45                     |                         |
| <i>For Seal Class A, Add</i>   | 90.55                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 84.89                     |                         |
| 23 31 13 13-0469 LF 36" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 331.44                    | 173.92                  |
| <i>For Seal Class B, Add</i>   | 43.48                     |                         |
| <i>For Seal Class A, Add</i>   | 92.76                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 86.96                     |                         |
| 23 31 13 13-0470 LF 38" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 299.88                    | 157.36                  |
| <i>For Seal Class B, Add</i>   | 39.34                     |                         |
| <i>For Seal Class A, Add</i>   | 83.93                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 78.68                     |                         |
| 23 31 13 13-0471 LF 38" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 307.77                    | 161.51                  |
| <i>For Seal Class B, Add</i>   | 40.38                     |                         |
| <i>For Seal Class A, Add</i>   | 86.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 80.75                     |                         |
| 23 31 13 13-0472 LF 38" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 315.66                    | 165.65                  |
| <i>For Seal Class B, Add</i>   | 41.41                     |                         |
| <i>For Seal Class A, Add</i>   | 88.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 82.82                     |                         |
| 23 31 13 13-0473 LF 38" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 323.55                    | 169.78                  |
| <i>For Seal Class B, Add</i>   | 42.45                     |                         |
| <i>For Seal Class A, Add</i>   | 90.55                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 84.89                     |                         |
| 23 31 13 13-0474 LF 38" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 331.44                    | 173.92                  |
| <i>For Seal Class B, Add</i>   | 43.48                     |                         |
| <i>For Seal Class A, Add</i>   | 92.76                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 86.96                     |                         |
| 23 31 13 13-0475 LF 38" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 339.34                    | 178.07                  |
| <i>For Seal Class B, Add</i>   | 44.52                     |                         |
| <i>For Seal Class A, Add</i>   | 94.97                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 89.03                     |                         |
| 23 31 13 13-0476 LF 38" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 347.23                    | 182.20                  |
| <i>For Seal Class B, Add</i>   | 45.55                     |                         |
| <i>For Seal Class A, Add</i>   | 97.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 91.10                     |                         |
| 23 31 13 13-0477 LF 40" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 315.66                    | 165.65                  |
| <i>For Seal Class B, Add</i>   | 41.41                     |                         |
| <i>For Seal Class A, Add</i>   | 88.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 82.82                     |                         |
| 23 31 13 13-0478 LF 40" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 323.55                    | 169.78                  |
| <i>For Seal Class B, Add</i>   | 42.45                     |                         |
| <i>For Seal Class A, Add</i>   | 90.55                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 84.89                     |                         |
| 23 31 13 13-0479 LF 40" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 331.44                    | 173.92                  |
| <i>For Seal Class B, Add</i>   | 43.48                     |                         |
| <i>For Seal Class A, Add</i>   | 92.76                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 86.96                     |                         |
| 23 31 13 13-0480 LF 40" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 339.34                    | 178.07                  |
| <i>For Seal Class B, Add</i>   | 44.52                     |                         |
| <i>For Seal Class A, Add</i>   | 94.97                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 89.03                     |                         |
| 23 31 13 13-0481 LF 40" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 347.23                    | 182.20                  |
| <i>For Seal Class B, Add</i>   | 45.55                     |                         |
| <i>For Seal Class A, Add</i>   | 97.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 91.10                     |                         |
| 23 31 13 13-0482 LF 40" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 355.12                    | 186.35                  |
| <i>For Seal Class B, Add</i>   | 46.59                     |                         |
| <i>For Seal Class A, Add</i>   | 99.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 93.17                     |                         |
| 23 31 13 13-0483 LF 40" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.02                    | 190.50                  |
| <i>For Seal Class B, Add</i>   | 47.62                     |                         |
| <i>For Seal Class A, Add</i>   | 101.60                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 95.25                     |                         |
| 23 31 13 13-0484 LF 40" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 370.90                    | 194.62                  |
| <i>For Seal Class B, Add</i>   | 48.66                     |                         |
| <i>For Seal Class A, Add</i>   | 103.80                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 97.31                     |                         |
| 23 31 13 13-0485 LF 42" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 331.44                    | 173.92                  |
| <i>For Seal Class B, Add</i>   | 43.48                     |                         |
| <i>For Seal Class A, Add</i>   | 92.76                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 86.96                     |                         |
| 23 31 13 13-0486 LF 42" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 339.34                    | 178.07                  |
| <i>For Seal Class B, Add</i>   | 44.52                     |                         |
| <i>For Seal Class A, Add</i>   | 94.97                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 89.03                     |                         |
| 23 31 13 13-0487 LF 42" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 347.23                    | 182.20                  |
| <i>For Seal Class B, Add</i>   | 45.55                     |                         |
| <i>For Seal Class A, Add</i>   | 97.18                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 91.10                     |                         |
| 23 31 13 13-0488 LF 42" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 355.12                    | 186.35                  |
| <i>For Seal Class B, Add</i>   | 46.59                     |                         |
| <i>For Seal Class A, Add</i>   | 99.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 93.17                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0489 LF 42" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.02                    | 190.50                  |
| For Seal Class B, Add  | 47.62                     |                         |
| For Seal Class A, Add  | 101.60                    |                         |
| For Work In Restricted Working Space, Add  | 95.25                     |                         |
| 23 31 13 13-0490 LF 42" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 370.90                    | 194.62                  |
| For Seal Class B, Add  | 48.66                     |                         |
| For Seal Class A, Add  | 103.80                    |                         |
| For Work In Restricted Working Space, Add  | 97.31                     |                         |
| 23 31 13 13-0491 LF 42" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 378.79                    | 198.77                  |
| For Seal Class B, Add  | 49.69                     |                         |
| For Seal Class A, Add  | 106.01                    |                         |
| For Work In Restricted Working Space, Add  | 99.38                     |                         |
| 23 31 13 13-0492 LF 44" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 347.23                    | 182.20                  |
| For Seal Class B, Add  | 45.55                     |                         |
| For Seal Class A, Add  | 97.18                     |                         |
| For Work In Restricted Working Space, Add  | 91.10                     |                         |
| 23 31 13 13-0493 LF 44" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 355.12                    | 186.35                  |
| For Seal Class B, Add  | 46.59                     |                         |
| For Seal Class A, Add  | 99.39                     |                         |
| For Work In Restricted Working Space, Add  | 93.17                     |                         |
| 23 31 13 13-0494 LF 44" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.02                    | 190.50                  |
| For Seal Class B, Add  | 47.62                     |                         |
| For Seal Class A, Add  | 101.60                    |                         |
| For Work In Restricted Working Space, Add  | 95.25                     |                         |
| 23 31 13 13-0495 LF 44" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 370.90                    | 194.62                  |
| For Seal Class B, Add  | 48.66                     |                         |
| For Seal Class A, Add  | 103.80                    |                         |
| For Work In Restricted Working Space, Add  | 97.31                     |                         |
| 23 31 13 13-0496 LF 44" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 378.79                    | 198.77                  |
| For Seal Class B, Add  | 49.69                     |                         |
| For Seal Class A, Add  | 106.01                    |                         |
| For Work In Restricted Working Space, Add  | 99.38                     |                         |
| 23 31 13 13-0497 LF 44" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 386.68                    | 202.91                  |
| For Seal Class B, Add  | 50.73                     |                         |
| For Seal Class A, Add  | 108.22                    |                         |
| For Work In Restricted Working Space, Add  | 101.45                    |                         |
| 23 31 13 13-0498 LF 46" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.02                    | 190.50                  |
| For Seal Class B, Add  | 47.62                     |                         |
| For Seal Class A, Add  | 101.60                    |                         |
| For Work In Restricted Working Space, Add  | 95.25                     |                         |
| 23 31 13 13-0499 LF 46" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 370.90                    | 194.62                  |
| For Seal Class B, Add  | 48.66                     |                         |
| For Seal Class A, Add  | 103.80                    |                         |
| For Work In Restricted Working Space, Add  | 97.31                     |                         |
| 23 31 13 13-0500 LF 46" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 378.79                    | 198.77                  |
| For Seal Class B, Add  | 49.69                     |                         |
| For Seal Class A, Add  | 106.01                    |                         |
| For Work In Restricted Working Space, Add  | 99.38                     |                         |
| 23 31 13 13-0501 LF 46" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 386.68                    | 202.91                  |
| For Seal Class B, Add  | 50.73                     |                         |
| For Seal Class A, Add  | 108.22                    |                         |
| For Work In Restricted Working Space, Add  | 101.45                    |                         |
| 23 31 13 13-0502 LF 46" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 394.59                    | 207.06                  |
| For Seal Class B, Add  | 51.77                     |                         |
| For Seal Class A, Add  | 110.43                    |                         |
| For Work In Restricted Working Space, Add  | 103.53                    |                         |
| 23 31 13 13-0503 LF 48" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 378.79                    | 198.77                  |
| For Seal Class B, Add  | 49.69                     |                         |
| For Seal Class A, Add  | 106.01                    |                         |
| For Work In Restricted Working Space, Add  | 99.38                     |                         |
| 23 31 13 13-0504 LF 48" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 386.68                    | 202.91                  |
| For Seal Class B, Add  | 50.73                     |                         |
| For Seal Class A, Add  | 108.22                    |                         |
| For Work In Restricted Working Space, Add  | 101.45                    |                         |
| 23 31 13 13-0505 LF 48" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 394.59                    | 207.06                  |
| For Seal Class B, Add  | 51.77                     |                         |
| For Seal Class A, Add  | 110.43                    |                         |
| For Work In Restricted Working Space, Add  | 103.53                    |                         |
| 23 31 13 13-0506 LF 48" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 402.47                    | 211.19                  |
| For Seal Class B, Add  | 52.80                     |                         |
| For Seal Class A, Add  | 112.64                    |                         |
| For Work In Restricted Working Space, Add  | 105.60                    |                         |
| 23 31 13 13-0507 LF 50" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 394.59                    | 207.06                  |
| For Seal Class B, Add  | 51.77                     |                         |
| For Seal Class A, Add  | 110.43                    |                         |
| For Work In Restricted Working Space, Add  | 103.53                    |                         |
| 23 31 13 13-0508 LF 50" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 402.47                    | 211.19                  |
| For Seal Class B, Add  | 52.80                     |                         |
| For Seal Class A, Add  | 112.64                    |                         |
| For Work In Restricted Working Space, Add  | 105.60                    |                         |
| 23 31 13 13-0509 LF 50" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 410.36                    | 215.34                  |
| For Seal Class B, Add  | 53.83                     |                         |
| For Seal Class A, Add  | 114.84                    |                         |
| For Work In Restricted Working Space, Add  | 107.67                    |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>HVAC Air Distribution</b>                             | <b>23 30</b> |
| <b>HVAC Ducts and Casings</b>                            | <b>23 31</b> |

23

| MINOR           | CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST           | DEMOLITION<br>UNIT COST |
|-----------------|----------------|-----|--|-------------------------------------|-------------------------|
| 23 31 13        | 13-0510        | LF  | 52" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 410.36<br>53.83<br>114.84<br>107.67 | 215.34                  |
| 23 31 13        | 13-0511        | LF  | 52" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 418.25<br>54.87<br>117.06<br>109.74 | 219.48                  |
| 23 31 13        | 13-0512        | LF  | 54" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 426.13<br>55.90<br>119.26<br>111.81 | 223.61                  |
| <b>23 31 13</b> | <b>13-0513</b> |     | <b>20 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small>  |                                     |                         |
| 23 31 13        | 13-0514        | LF  | 4" x 4", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 37.17<br>4.88<br>10.41<br>9.76      | 19.51                   |
| 23 31 13        | 13-0515        | LF  | 4" x 6", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 46.48<br>6.10<br>13.01<br>12.20     | 24.38                   |
| 23 31 13        | 13-0516        | LF  | 4" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 55.77<br>7.32<br>15.61<br>14.63     | 29.26                   |
| 23 31 13        | 13-0517        | LF  | 4" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 65.05<br>8.54<br>18.21<br>17.07     | 34.13                   |
| 23 31 13        | 13-0518        | LF  | 4" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 74.36<br>9.75<br>20.81<br>19.51     | 39.02                   |
| 23 31 13        | 13-0519        | LF  | 4" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 83.65<br>10.97<br>23.41<br>21.95    | 43.89                   |
| 23 31 13        | 13-0520        | LF  | 4" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 92.95<br>12.20<br>26.02<br>24.39    | 48.77                   |
| 23 31 13        | 13-0521        | LF  | 6" x 6", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 55.77<br>7.32<br>15.61<br>14.63     | 29.26                   |
| 23 31 13        | 13-0522        | LF  | 6" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 65.05<br>8.54<br>18.21<br>17.07     | 34.13                   |
| 23 31 13        | 13-0523        | LF  | 6" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 74.36<br>9.75<br>20.81<br>19.51     | 39.02                   |
| 23 31 13        | 13-0524        | LF  | 6" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 83.65<br>10.97<br>23.41<br>21.95    | 43.89                   |
| 23 31 13        | 13-0525        | LF  | 6" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 92.95<br>12.20<br>26.02<br>24.39    | 48.77                   |
| 23 31 13        | 13-0526        | LF  | 6" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 102.25<br>13.41<br>28.61<br>26.83   | 53.65                   |
| 23 31 13        | 13-0527        | LF  | 8" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>   | 74.36<br>9.75<br>20.81<br>19.51     | 39.02                   |
| 23 31 13        | 13-0528        | LF  | 8" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 83.65<br>10.97<br>23.41<br>21.95    | 43.89                   |
| 23 31 13        | 13-0529        | LF  | 8" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 92.95<br>12.20<br>26.02<br>24.39    | 48.77                   |
| 23 31 13        | 13-0530        | LF  | 8" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 102.25<br>13.41<br>28.61<br>26.83   | 53.65                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0531 LF 8" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 111.53                    | 58.53                   |
| For Seal Class B, Add  | 14.63                     |                         |
| For Seal Class A, Add  | 31.22                     |                         |
| For Work In Restricted Working Space, Add  | 29.27                     |                         |
| 23 31 13 13-0532 LF 8" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 120.82                    | 63.40                   |
| For Seal Class B, Add  | 15.85                     |                         |
| For Seal Class A, Add  | 33.81                     |                         |
| For Work In Restricted Working Space, Add  | 31.70                     |                         |
| 23 31 13 13-0533 LF 8" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 130.13                    | 68.29                   |
| For Seal Class B, Add  | 17.07                     |                         |
| For Seal Class A, Add  | 36.42                     |                         |
| For Work In Restricted Working Space, Add  | 34.14                     |                         |
| 23 31 13 13-0534 LF 8" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 139.42                    | 73.15                   |
| For Seal Class B, Add  | 18.29                     |                         |
| For Seal Class A, Add  | 39.02                     |                         |
| For Work In Restricted Working Space, Add  | 36.58                     |                         |
| 23 31 13 13-0535 LF 8" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 148.71                    | 78.04                   |
| For Seal Class B, Add  | 19.51                     |                         |
| For Seal Class A, Add  | 41.62                     |                         |
| For Work In Restricted Working Space, Add  | 39.02                     |                         |
| 23 31 13 13-0536 LF 10" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 92.95                     | 48.77                   |
| For Seal Class B, Add  | 12.20                     |                         |
| For Seal Class A, Add  | 26.02                     |                         |
| For Work In Restricted Working Space, Add  | 24.39                     |                         |
| 23 31 13 13-0537 LF 10" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 102.25                    | 53.65                   |
| For Seal Class B, Add  | 13.41                     |                         |
| For Seal Class A, Add  | 28.61                     |                         |
| For Work In Restricted Working Space, Add  | 26.83                     |                         |
| 23 31 13 13-0538 LF 10" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 111.53                    | 58.53                   |
| For Seal Class B, Add  | 14.63                     |                         |
| For Seal Class A, Add  | 31.22                     |                         |
| For Work In Restricted Working Space, Add  | 29.27                     |                         |
| 23 31 13 13-0539 LF 10" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 120.82                    | 63.40                   |
| For Seal Class B, Add  | 15.85                     |                         |
| For Seal Class A, Add  | 33.81                     |                         |
| For Work In Restricted Working Space, Add  | 31.70                     |                         |
| 23 31 13 13-0540 LF 10" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 130.13                    | 68.29                   |
| For Seal Class B, Add  | 17.07                     |                         |
| For Seal Class A, Add  | 36.42                     |                         |
| For Work In Restricted Working Space, Add  | 34.14                     |                         |
| 23 31 13 13-0541 LF 10" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 139.42                    | 73.15                   |
| For Seal Class B, Add  | 18.29                     |                         |
| For Seal Class A, Add  | 39.02                     |                         |
| For Work In Restricted Working Space, Add  | 36.58                     |                         |
| 23 31 13 13-0542 LF 10" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 148.71                    | 78.04                   |
| For Seal Class B, Add  | 19.51                     |                         |
| For Seal Class A, Add  | 41.62                     |                         |
| For Work In Restricted Working Space, Add  | 39.02                     |                         |
| 23 31 13 13-0543 LF 10" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 158.03                    | 82.91                   |
| For Seal Class B, Add  | 20.73                     |                         |
| For Seal Class A, Add  | 44.22                     |                         |
| For Work In Restricted Working Space, Add  | 41.46                     |                         |
| 23 31 13 13-0544 LF 10" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 167.30                    | 87.79                   |
| For Seal Class B, Add  | 21.95                     |                         |
| For Seal Class A, Add  | 46.82                     |                         |
| For Work In Restricted Working Space, Add  | 43.90                     |                         |
| 23 31 13 13-0545 LF 10" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 176.60                    | 92.67                   |
| For Seal Class B, Add  | 23.17                     |                         |
| For Seal Class A, Add  | 49.42                     |                         |
| For Work In Restricted Working Space, Add  | 46.34                     |                         |
| 23 31 13 13-0546 LF 10" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 185.88                    | 97.55                   |
| For Seal Class B, Add  | 24.39                     |                         |
| For Seal Class A, Add  | 52.02                     |                         |
| For Work In Restricted Working Space, Add  | 48.77                     |                         |
| 23 31 13 13-0547 LF 10" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 195.19                    | 102.42                  |
| For Seal Class B, Add  | 25.61                     |                         |
| For Seal Class A, Add  | 54.63                     |                         |
| For Work In Restricted Working Space, Add  | 51.21                     |                         |
| 23 31 13 13-0548 LF 12" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 111.53                    | 58.53                   |
| For Seal Class B, Add  | 14.63                     |                         |
| For Seal Class A, Add  | 31.22                     |                         |
| For Work In Restricted Working Space, Add  | 29.27                     |                         |
| 23 31 13 13-0549 LF 12" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 120.82                    | 63.40                   |
| For Seal Class B, Add  | 15.85                     |                         |
| For Seal Class A, Add  | 33.81                     |                         |
| For Work In Restricted Working Space, Add  | 31.70                     |                         |
| 23 31 13 13-0550 LF 12" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 130.13                    | 68.29                   |
| For Seal Class B, Add  | 17.07                     |                         |
| For Seal Class A, Add  | 36.42                     |                         |
| For Work In Restricted Working Space, Add  | 34.14                     |                         |
| 23 31 13 13-0551 LF 12" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 139.42                    | 73.15                   |
| For Seal Class B, Add  | 18.29                     |                         |
| For Seal Class A, Add  | 39.02                     |                         |
| For Work In Restricted Working Space, Add  | 36.58                     |                         |

**Heating, Ventilating, and Air-Conditioning (HVAC) 23****HVAC Air Distribution 23 30****HVAC Ducts and Casings 23 31**

23

| MINOR            |     |  | TOTAL DIRECT | DEMOLITION |
|------------------|-----|--|--------------|------------|
| CSI              | UOM | DESCRIPTION  | UNIT COST    | UNIT COST  |
| 23 31 13 13-0552 | LF  | 12" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 148.71       | 78.04      |
|                  |     | <i>For Seal Class B, Add</i>   | 19.51        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 41.62        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 39.02        |            |
| 23 31 13 13-0553 | LF  | 12" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 158.03       | 82.91      |
|                  |     | <i>For Seal Class B, Add</i>   | 20.73        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 44.22        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 41.46        |            |
| 23 31 13 13-0554 | LF  | 12" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 167.30       | 87.79      |
|                  |     | <i>For Seal Class B, Add</i>   | 21.95        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 46.82        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 43.90        |            |
| 23 31 13 13-0555 | LF  | 12" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 176.60       | 92.67      |
|                  |     | <i>For Seal Class B, Add</i>   | 23.17        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 49.42        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 46.34        |            |
| 23 31 13 13-0556 | LF  | 12" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 185.88       | 97.55      |
|                  |     | <i>For Seal Class B, Add</i>   | 24.39        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 52.02        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 48.77        |            |
| 23 31 13 13-0557 | LF  | 12" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 195.19       | 102.42     |
|                  |     | <i>For Seal Class B, Add</i>   | 25.61        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 54.63        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 51.21        |            |
| 23 31 13 13-0558 | LF  | 12" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 204.49       | 107.31     |
|                  |     | <i>For Seal Class B, Add</i>   | 26.83        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 57.23        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 53.65        |            |
| 23 31 13 13-0559 | LF  | 12" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 213.77       | 112.18     |
|                  |     | <i>For Seal Class B, Add</i>   | 28.04        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 59.83        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 56.09        |            |
| 23 31 13 13-0560 | LF  | 12" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 223.08       | 117.06     |
|                  |     | <i>For Seal Class B, Add</i>   | 29.27        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 62.43        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 58.53        |            |
| 23 31 13 13-0561 | LF  | 14" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 130.13       | 68.29      |
|                  |     | <i>For Seal Class B, Add</i>   | 17.07        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 36.42        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 34.14        |            |
| 23 31 13 13-0562 | LF  | 14" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 139.42       | 73.15      |
|                  |     | <i>For Seal Class B, Add</i>   | 18.29        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 39.02        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 36.58        |            |
| 23 31 13 13-0563 | LF  | 14" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 148.71       | 78.04      |
|                  |     | <i>For Seal Class B, Add</i>   | 19.51        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 41.62        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 39.02        |            |
| 23 31 13 13-0564 | LF  | 14" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 158.03       | 82.91      |
|                  |     | <i>For Seal Class B, Add</i>   | 20.73        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 44.22        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 41.46        |            |
| 23 31 13 13-0565 | LF  | 14" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 167.30       | 87.79      |
|                  |     | <i>For Seal Class B, Add</i>   | 21.95        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 46.82        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 43.90        |            |
| 23 31 13 13-0566 | LF  | 14" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 176.60       | 92.67      |
|                  |     | <i>For Seal Class B, Add</i>   | 23.17        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 49.42        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 46.34        |            |
| 23 31 13 13-0567 | LF  | 14" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 185.88       | 97.55      |
|                  |     | <i>For Seal Class B, Add</i>   | 24.39        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 52.02        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 48.77        |            |
| 23 31 13 13-0568 | LF  | 14" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 195.19       | 102.42     |
|                  |     | <i>For Seal Class B, Add</i>   | 25.61        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 54.63        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 51.21        |            |
| 23 31 13 13-0569 | LF  | 14" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 204.49       | 107.31     |
|                  |     | <i>For Seal Class B, Add</i>   | 26.83        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 57.23        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 53.65        |            |
| 23 31 13 13-0570 | LF  | 14" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 213.77       | 112.18     |
|                  |     | <i>For Seal Class B, Add</i>   | 28.04        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 59.83        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 56.09        |            |
| 23 31 13 13-0571 | LF  | 14" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 223.08       | 117.06     |
|                  |     | <i>For Seal Class B, Add</i>   | 29.27        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 62.43        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 58.53        |            |
| 23 31 13 13-0572 | LF  | 14" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 232.35       | 121.94     |
|                  |     | <i>For Seal Class B, Add</i>   | 30.48        |            |
|                  |     | <i>For Seal Class A, Add</i>   | 65.03        |            |
|                  |     | <i>For Work In Restricted Working Space, Add</i>                         | 60.97        |            |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|----------|---------|-----|--|---------------------------|-------------------------|
| 23 31 13 | 13-0573 | LF  | 16" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 148.71                    | 78.04                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 19.51                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 41.62                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 39.02                     |                         |
| 23 31 13 | 13-0574 | LF  | 16" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 158.03                    | 82.91                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 20.73                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 44.22                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 41.46                     |                         |
| 23 31 13 | 13-0575 | LF  | 16" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 167.30                    | 87.79                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 21.95                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 46.82                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 43.90                     |                         |
| 23 31 13 | 13-0576 | LF  | 16" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 176.60                    | 92.67                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 23.17                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 49.42                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 46.34                     |                         |
| 23 31 13 | 13-0577 | LF  | 16" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 185.88                    | 97.55                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 24.39                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 52.02                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 48.77                     |                         |
| 23 31 13 | 13-0578 | LF  | 16" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 195.19                    | 102.42                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 25.61                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 54.63                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 51.21                     |                         |
| 23 31 13 | 13-0579 | LF  | 16" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 204.49                    | 107.31                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 26.83                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 57.23                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 53.65                     |                         |
| 23 31 13 | 13-0580 | LF  | 16" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 213.77                    | 112.18                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 28.04                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 59.83                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 56.09                     |                         |
| 23 31 13 | 13-0581 | LF  | 16" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 223.08                    | 117.06                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 29.27                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 62.43                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 58.53                     |                         |
| 23 31 13 | 13-0582 | LF  | 16" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 232.35                    | 121.94                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 30.48                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 65.03                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 60.97                     |                         |
| 23 31 13 | 13-0583 | LF  | 16" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 241.67                    | 126.82                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 31.70                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 67.64                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 63.41                     |                         |
| 23 31 13 | 13-0584 | LF  | 16" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 250.96                    | 131.68                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 32.92                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 70.23                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 65.84                     |                         |
| 23 31 13 | 13-0585 | LF  | 16" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 260.24                    | 136.57                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 34.14                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 72.84                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 68.28                     |                         |
| 23 31 13 | 13-0586 | LF  | 16" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 269.55                    | 141.44                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 35.36                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 75.44                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 70.72                     |                         |
| 23 31 13 | 13-0587 | LF  | 16" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 278.85                    | 146.32                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 36.58                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 78.04                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 73.16                     |                         |
| 23 31 13 | 13-0588 | LF  | 18" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 167.30                    | 87.79                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 21.95                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 46.82                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 43.90                     |                         |
| 23 31 13 | 13-0589 | LF  | 18" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 176.60                    | 92.67                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 23.17                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 49.42                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 46.34                     |                         |
| 23 31 13 | 13-0590 | LF  | 18" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 185.88                    | 97.55                   |
|          |         |     | <i>For Seal Class B, Add</i>   | 24.39                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 52.02                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 48.77                     |                         |
| 23 31 13 | 13-0591 | LF  | 18" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 195.19                    | 102.42                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 25.61                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 54.63                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 51.21                     |                         |
| 23 31 13 | 13-0592 | LF  | 18" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 204.49                    | 107.31                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 26.83                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 57.23                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 53.65                     |                         |
| 23 31 13 | 13-0593 | LF  | 18" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 213.77                    | 112.18                  |
|          |         |     | <i>For Seal Class B, Add</i>   | 28.04                     |                         |
|          |         |     | <i>For Seal Class A, Add</i>   | 59.83                     |                         |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                         | 56.09                     |                         |



**Heating, Ventilating, and Air-Conditioning (HVAC)**

**23**

**HVAC Air Distribution**

**23 30**

**HVAC Ducts and Casings**

**23 31**

**23**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0594 LF 18" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 223.08                    | 117.06                  |
| For Seal Class B, Add  | 29.27                     |                         |
| For Seal Class A, Add  | 62.43                     |                         |
| For Work In Restricted Working Space, Add  | 58.53                     |                         |
| 23 31 13 13-0595 LF 18" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 232.35                    | 121.94                  |
| For Seal Class B, Add  | 30.48                     |                         |
| For Seal Class A, Add  | 65.03                     |                         |
| For Work In Restricted Working Space, Add  | 60.97                     |                         |
| 23 31 13 13-0596 LF 18" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 241.67                    | 126.82                  |
| For Seal Class B, Add  | 31.70                     |                         |
| For Seal Class A, Add  | 67.64                     |                         |
| For Work In Restricted Working Space, Add  | 63.41                     |                         |
| 23 31 13 13-0597 LF 18" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 250.96                    | 131.68                  |
| For Seal Class B, Add  | 32.92                     |                         |
| For Seal Class A, Add  | 70.23                     |                         |
| For Work In Restricted Working Space, Add  | 65.84                     |                         |
| 23 31 13 13-0598 LF 18" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 260.24                    | 136.57                  |
| For Seal Class B, Add  | 34.14                     |                         |
| For Seal Class A, Add  | 72.84                     |                         |
| For Work In Restricted Working Space, Add  | 68.28                     |                         |
| 23 31 13 13-0599 LF 18" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 269.55                    | 141.44                  |
| For Seal Class B, Add  | 35.36                     |                         |
| For Seal Class A, Add  | 75.44                     |                         |
| For Work In Restricted Working Space, Add  | 70.72                     |                         |
| 23 31 13 13-0600 LF 18" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.85                    | 146.32                  |
| For Seal Class B, Add  | 36.58                     |                         |
| For Seal Class A, Add  | 78.04                     |                         |
| For Work In Restricted Working Space, Add  | 73.16                     |                         |
| 23 31 13 13-0601 LF 18" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 288.13                    | 151.20                  |
| For Seal Class B, Add  | 37.80                     |                         |
| For Seal Class A, Add  | 80.64                     |                         |
| For Work In Restricted Working Space, Add  | 75.60                     |                         |
| 23 31 13 13-0602 LF 18" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 297.44                    | 156.08                  |
| For Seal Class B, Add  | 39.02                     |                         |
| For Seal Class A, Add  | 83.24                     |                         |
| For Work In Restricted Working Space, Add  | 78.04                     |                         |
| 23 31 13 13-0603 LF 20" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 185.88                    | 97.55                   |
| For Seal Class B, Add  | 24.39                     |                         |
| For Seal Class A, Add  | 52.02                     |                         |
| For Work In Restricted Working Space, Add  | 48.77                     |                         |
| 23 31 13 13-0604 LF 20" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 195.19                    | 102.42                  |
| For Seal Class B, Add  | 25.61                     |                         |
| For Seal Class A, Add  | 54.63                     |                         |
| For Work In Restricted Working Space, Add  | 51.21                     |                         |
| 23 31 13 13-0605 LF 20" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 204.49                    | 107.31                  |
| For Seal Class B, Add  | 26.83                     |                         |
| For Seal Class A, Add  | 57.23                     |                         |
| For Work In Restricted Working Space, Add  | 53.65                     |                         |
| 23 31 13 13-0606 LF 20" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 213.77                    | 112.18                  |
| For Seal Class B, Add  | 28.04                     |                         |
| For Seal Class A, Add  | 59.83                     |                         |
| For Work In Restricted Working Space, Add  | 56.09                     |                         |
| 23 31 13 13-0607 LF 20" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 223.08                    | 117.06                  |
| For Seal Class B, Add  | 29.27                     |                         |
| For Seal Class A, Add  | 62.43                     |                         |
| For Work In Restricted Working Space, Add  | 58.53                     |                         |
| 23 31 13 13-0608 LF 20" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 232.35                    | 121.94                  |
| For Seal Class B, Add  | 30.48                     |                         |
| For Seal Class A, Add  | 65.03                     |                         |
| For Work In Restricted Working Space, Add  | 60.97                     |                         |
| 23 31 13 13-0609 LF 20" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 241.67                    | 126.82                  |
| For Seal Class B, Add  | 31.70                     |                         |
| For Seal Class A, Add  | 67.64                     |                         |
| For Work In Restricted Working Space, Add  | 63.41                     |                         |
| 23 31 13 13-0610 LF 20" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 250.96                    | 131.68                  |
| For Seal Class B, Add  | 32.92                     |                         |
| For Seal Class A, Add  | 70.23                     |                         |
| For Work In Restricted Working Space, Add  | 65.84                     |                         |
| 23 31 13 13-0611 LF 20" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 260.24                    | 136.57                  |
| For Seal Class B, Add  | 34.14                     |                         |
| For Seal Class A, Add  | 72.84                     |                         |
| For Work In Restricted Working Space, Add  | 68.28                     |                         |
| 23 31 13 13-0612 LF 20" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 269.55                    | 141.44                  |
| For Seal Class B, Add  | 35.36                     |                         |
| For Seal Class A, Add  | 75.44                     |                         |
| For Work In Restricted Working Space, Add  | 70.72                     |                         |
| 23 31 13 13-0613 LF 20" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.85                    | 146.32                  |
| For Seal Class B, Add  | 36.58                     |                         |
| For Seal Class A, Add  | 78.04                     |                         |
| For Work In Restricted Working Space, Add  | 73.16                     |                         |
| 23 31 13 13-0614 LF 20" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 288.13                    | 151.20                  |
| For Seal Class B, Add  | 37.80                     |                         |
| For Seal Class A, Add  | 80.64                     |                         |
| For Work In Restricted Working Space, Add  | 75.60                     |                         |

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows list HVAC ductwork items with specifications and costs.



| MINOR               | TOTAL DIRECT | DEMOLITION |  |
|---------------------|--------------|------------|--|
| CSI UOM DESCRIPTION | UNIT COST    | UNIT COST  |  |
| 23 31 13 13-0636    |              |            | LF 24" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 260.24 |
|                     | 34.14        |            | For Seal Class B, Add  |
|                     | 72.84        |            | For Seal Class A, Add  |
|                     | 68.28        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0637    |              |            | LF 24" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 269.55 |
|                     | 35.36        |            | For Seal Class B, Add  |
|                     | 75.44        |            | For Seal Class A, Add  |
|                     | 70.72        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0638    |              |            | LF 24" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 278.85 |
|                     | 36.58        |            | For Seal Class B, Add  |
|                     | 78.04        |            | For Seal Class A, Add  |
|                     | 73.16        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0639    |              |            | LF 24" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 288.13 |
|                     | 37.80        |            | For Seal Class B, Add  |
|                     | 80.64        |            | For Seal Class A, Add  |
|                     | 75.60        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0640    |              |            | LF 24" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 297.44 |
|                     | 39.02        |            | For Seal Class B, Add  |
|                     | 83.24        |            | For Seal Class A, Add  |
|                     | 78.04        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0641    |              |            | LF 24" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 306.72 |
|                     | 40.24        |            | For Seal Class B, Add  |
|                     | 85.84        |            | For Seal Class A, Add  |
|                     | 80.48        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0642    |              |            | LF 24" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 316.01 |
|                     | 41.46        |            | For Seal Class B, Add  |
|                     | 88.44        |            | For Seal Class A, Add  |
|                     | 82.91        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0643    |              |            | LF 24" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 325.32 |
|                     | 42.68        |            | For Seal Class B, Add  |
|                     | 91.04        |            | For Seal Class A, Add  |
|                     | 85.35        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0644    |              |            | LF 24" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 334.60 |
|                     | 43.90        |            | For Seal Class B, Add  |
|                     | 93.64        |            | For Seal Class A, Add  |
|                     | 87.79        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0645    |              |            | LF 26" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 241.67 |
|                     | 31.70        |            | For Seal Class B, Add  |
|                     | 67.64        |            | For Seal Class A, Add  |
|                     | 63.41        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0646    |              |            | LF 26" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 250.96 |
|                     | 32.92        |            | For Seal Class B, Add  |
|                     | 70.23        |            | For Seal Class A, Add  |
|                     | 65.84        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0647    |              |            | LF 26" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 260.24 |
|                     | 34.14        |            | For Seal Class B, Add  |
|                     | 72.84        |            | For Seal Class A, Add  |
|                     | 68.28        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0648    |              |            | LF 26" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 269.55 |
|                     | 35.36        |            | For Seal Class B, Add  |
|                     | 75.44        |            | For Seal Class A, Add  |
|                     | 70.72        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0649    |              |            | LF 26" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 278.85 |
|                     | 36.58        |            | For Seal Class B, Add  |
|                     | 78.04        |            | For Seal Class A, Add  |
|                     | 73.16        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0650    |              |            | LF 26" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 288.13 |
|                     | 37.80        |            | For Seal Class B, Add  |
|                     | 80.64        |            | For Seal Class A, Add  |
|                     | 75.60        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0651    |              |            | LF 26" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 297.44 |
|                     | 39.02        |            | For Seal Class B, Add  |
|                     | 83.24        |            | For Seal Class A, Add  |
|                     | 78.04        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0652    |              |            | LF 26" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 306.72 |
|                     | 40.24        |            | For Seal Class B, Add  |
|                     | 85.84        |            | For Seal Class A, Add  |
|                     | 80.48        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0653    |              |            | LF 26" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 316.01 |
|                     | 41.46        |            | For Seal Class B, Add  |
|                     | 88.44        |            | For Seal Class A, Add  |
|                     | 82.91        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0654    |              |            | LF 26" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 325.32 |
|                     | 42.68        |            | For Seal Class B, Add  |
|                     | 91.04        |            | For Seal Class A, Add  |
|                     | 85.35        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0655    |              |            | LF 26" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 334.60 |
|                     | 43.90        |            | For Seal Class B, Add  |
|                     | 93.64        |            | For Seal Class A, Add  |
|                     | 87.79        |            | For Work In Restricted Working Space, Add  |
| 23 31 13 13-0656    |              |            | LF 26" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... 343.91 |
|                     | 45.12        |            | For Seal Class B, Add  |
|                     | 96.25        |            | For Seal Class A, Add  |
|                     | 90.23        |            | For Work In Restricted Working Space, Add  |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI | UOM     | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--------------|---------|---|---------------------------|-------------------------|
| 23 31 13     | 13-0657 | LF 28" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 260.24                    | 136.57                  |
|              |         | <i>For Seal Class B, Add</i>  | 34.14                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 72.84                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 68.28                     |                         |
| 23 31 13     | 13-0658 | LF 28" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 269.55                    | 141.44                  |
|              |         | <i>For Seal Class B, Add</i>  | 35.36                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 75.44                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 70.72                     |                         |
| 23 31 13     | 13-0659 | LF 28" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.85                    | 146.32                  |
|              |         | <i>For Seal Class B, Add</i>  | 36.58                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 78.04                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 73.16                     |                         |
| 23 31 13     | 13-0660 | LF 28" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 288.13                    | 151.20                  |
|              |         | <i>For Seal Class B, Add</i>  | 37.80                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 80.64                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 75.60                     |                         |
| 23 31 13     | 13-0661 | LF 28" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 297.44                    | 156.08                  |
|              |         | <i>For Seal Class B, Add</i>  | 39.02                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 83.24                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 78.04                     |                         |
| 23 31 13     | 13-0662 | LF 28" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 306.72                    | 160.95                  |
|              |         | <i>For Seal Class B, Add</i>  | 40.24                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 85.84                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 80.48                     |                         |
| 23 31 13     | 13-0663 | LF 28" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 316.01                    | 165.84                  |
|              |         | <i>For Seal Class B, Add</i>  | 41.46                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 88.44                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 82.91                     |                         |
| 23 31 13     | 13-0664 | LF 28" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 325.32                    | 170.71                  |
|              |         | <i>For Seal Class B, Add</i>  | 42.68                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 91.04                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 85.35                     |                         |
| 23 31 13     | 13-0665 | LF 28" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 334.60                    | 175.59                  |
|              |         | <i>For Seal Class B, Add</i>  | 43.90                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 93.64                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 87.79                     |                         |
| 23 31 13     | 13-0666 | LF 28" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 343.91                    | 180.46                  |
|              |         | <i>For Seal Class B, Add</i>  | 45.12                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 96.25                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 90.23                     |                         |
| 23 31 13     | 13-0667 | LF 28" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 353.20                    | 185.34                  |
|              |         | <i>For Seal Class B, Add</i>  | 46.34                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 98.85                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 92.67                     |                         |
| 23 31 13     | 13-0668 | LF 30" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.85                    | 146.32                  |
|              |         | <i>For Seal Class B, Add</i>  | 36.58                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 78.04                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 73.16                     |                         |
| 23 31 13     | 13-0669 | LF 30" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 288.13                    | 151.20                  |
|              |         | <i>For Seal Class B, Add</i>  | 37.80                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 80.64                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 75.60                     |                         |
| 23 31 13     | 13-0670 | LF 30" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 297.44                    | 156.08                  |
|              |         | <i>For Seal Class B, Add</i>  | 39.02                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 83.24                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 78.04                     |                         |
| 23 31 13     | 13-0671 | LF 30" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 306.72                    | 160.95                  |
|              |         | <i>For Seal Class B, Add</i>  | 40.24                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 85.84                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 80.48                     |                         |
| 23 31 13     | 13-0672 | LF 30" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 316.01                    | 165.84                  |
|              |         | <i>For Seal Class B, Add</i>  | 41.46                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 88.44                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 82.91                     |                         |
| 23 31 13     | 13-0673 | LF 30" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 325.32                    | 170.71                  |
|              |         | <i>For Seal Class B, Add</i>  | 42.68                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 91.04                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 85.35                     |                         |
| 23 31 13     | 13-0674 | LF 30" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 334.60                    | 175.59                  |
|              |         | <i>For Seal Class B, Add</i>  | 43.90                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 93.64                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 87.79                     |                         |
| 23 31 13     | 13-0675 | LF 30" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 343.91                    | 180.46                  |
|              |         | <i>For Seal Class B, Add</i>  | 45.12                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 96.25                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 90.23                     |                         |
| 23 31 13     | 13-0676 | LF 30" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 353.20                    | 185.34                  |
|              |         | <i>For Seal Class B, Add</i>  | 46.34                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 98.85                     |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 92.67                     |                         |
| 23 31 13     | 13-0677 | LF 30" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 362.49                    | 190.21                  |
|              |         | <i>For Seal Class B, Add</i>  | 47.55                     |                         |
|              |         | <i>For Seal Class A, Add</i>  | 101.45                    |                         |
|              |         | <i>For Work In Restricted Working Space, Add</i>                                  | 95.11                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0678 LF 32" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 297.44                    | 156.08                  |
| For Seal Class B, Add  | 39.02                     |                         |
| For Seal Class A, Add  | 83.24                     |                         |
| For Work In Restricted Working Space, Add  | 78.04                     |                         |
| 23 31 13 13-0679 LF 32" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 306.72                    | 160.95                  |
| For Seal Class B, Add  | 40.24                     |                         |
| For Seal Class A, Add  | 85.84                     |                         |
| For Work In Restricted Working Space, Add  | 80.48                     |                         |
| 23 31 13 13-0680 LF 32" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 316.01                    | 165.84                  |
| For Seal Class B, Add  | 41.46                     |                         |
| For Seal Class A, Add  | 88.44                     |                         |
| For Work In Restricted Working Space, Add  | 82.91                     |                         |
| 23 31 13 13-0681 LF 32" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 325.32                    | 170.71                  |
| For Seal Class B, Add  | 42.68                     |                         |
| For Seal Class A, Add  | 91.04                     |                         |
| For Work In Restricted Working Space, Add  | 85.35                     |                         |
| 23 31 13 13-0682 LF 32" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 334.60                    | 175.59                  |
| For Seal Class B, Add  | 43.90                     |                         |
| For Seal Class A, Add  | 93.64                     |                         |
| For Work In Restricted Working Space, Add  | 87.79                     |                         |
| 23 31 13 13-0683 LF 32" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 343.91                    | 180.46                  |
| For Seal Class B, Add  | 45.12                     |                         |
| For Seal Class A, Add  | 96.25                     |                         |
| For Work In Restricted Working Space, Add  | 90.23                     |                         |
| 23 31 13 13-0684 LF 32" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 353.20                    | 185.34                  |
| For Seal Class B, Add  | 46.34                     |                         |
| For Seal Class A, Add  | 98.85                     |                         |
| For Work In Restricted Working Space, Add  | 92.67                     |                         |
| 23 31 13 13-0685 LF 32" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 362.49                    | 190.21                  |
| For Seal Class B, Add  | 47.55                     |                         |
| For Seal Class A, Add  | 101.45                    |                         |
| For Work In Restricted Working Space, Add  | 95.11                     |                         |
| 23 31 13 13-0686 LF 32" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 371.79                    | 195.10                  |
| For Seal Class B, Add  | 48.77                     |                         |
| For Seal Class A, Add  | 104.05                    |                         |
| For Work In Restricted Working Space, Add  | 97.55                     |                         |
| 23 31 13 13-0687 LF 34" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 316.01                    | 165.84                  |
| For Seal Class B, Add  | 41.46                     |                         |
| For Seal Class A, Add  | 88.44                     |                         |
| For Work In Restricted Working Space, Add  | 82.91                     |                         |
| 23 31 13 13-0688 LF 34" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 325.32                    | 170.71                  |
| For Seal Class B, Add  | 42.68                     |                         |
| For Seal Class A, Add  | 91.04                     |                         |
| For Work In Restricted Working Space, Add  | 85.35                     |                         |
| 23 31 13 13-0689 LF 34" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 334.60                    | 175.59                  |
| For Seal Class B, Add  | 43.90                     |                         |
| For Seal Class A, Add  | 93.64                     |                         |
| For Work In Restricted Working Space, Add  | 87.79                     |                         |
| 23 31 13 13-0690 LF 34" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 343.91                    | 180.46                  |
| For Seal Class B, Add  | 45.12                     |                         |
| For Seal Class A, Add  | 96.25                     |                         |
| For Work In Restricted Working Space, Add  | 90.23                     |                         |
| 23 31 13 13-0691 LF 34" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 353.20                    | 185.34                  |
| For Seal Class B, Add  | 46.34                     |                         |
| For Seal Class A, Add  | 98.85                     |                         |
| For Work In Restricted Working Space, Add  | 92.67                     |                         |
| 23 31 13 13-0692 LF 34" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 362.49                    | 190.21                  |
| For Seal Class B, Add  | 47.55                     |                         |
| For Seal Class A, Add  | 101.45                    |                         |
| For Work In Restricted Working Space, Add  | 95.11                     |                         |
| 23 31 13 13-0693 LF 34" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 371.79                    | 195.10                  |
| For Seal Class B, Add  | 48.77                     |                         |
| For Seal Class A, Add  | 104.05                    |                         |
| For Work In Restricted Working Space, Add  | 97.55                     |                         |
| 23 31 13 13-0694 LF 34" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 381.07                    | 199.97                  |
| For Seal Class B, Add  | 49.99                     |                         |
| For Seal Class A, Add  | 106.65                    |                         |
| For Work In Restricted Working Space, Add  | 99.98                     |                         |
| 23 31 13 13-0695 LF 36" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 334.60                    | 175.59                  |
| For Seal Class B, Add  | 43.90                     |                         |
| For Seal Class A, Add  | 93.64                     |                         |
| For Work In Restricted Working Space, Add  | 87.79                     |                         |
| 23 31 13 13-0696 LF 36" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 343.91                    | 180.46                  |
| For Seal Class B, Add  | 45.12                     |                         |
| For Seal Class A, Add  | 96.25                     |                         |
| For Work In Restricted Working Space, Add  | 90.23                     |                         |
| 23 31 13 13-0697 LF 36" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 353.20                    | 185.34                  |
| For Seal Class B, Add  | 46.34                     |                         |
| For Seal Class A, Add  | 98.85                     |                         |
| For Work In Restricted Working Space, Add  | 92.67                     |                         |
| 23 31 13 13-0698 LF 36" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 362.49                    | 190.21                  |
| For Seal Class B, Add  | 47.55                     |                         |
| For Seal Class A, Add  | 101.45                    |                         |
| For Work In Restricted Working Space, Add  | 95.11                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0699 LF 36" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 371.79                    | 195.10                  |
| For Seal Class B, Add  | 48.77                     |                         |
| For Seal Class A, Add  | 104.05                    |                         |
| For Work In Restricted Working Space, Add  | 97.55                     |                         |
| 23 31 13 13-0700 LF 36" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 381.07                    | 199.97                  |
| For Seal Class B, Add  | 49.99                     |                         |
| For Seal Class A, Add  | 106.65                    |                         |
| For Work In Restricted Working Space, Add  | 99.98                     |                         |
| 23 31 13 13-0701 LF 36" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 390.37                    | 204.85                  |
| For Seal Class B, Add  | 51.21                     |                         |
| For Seal Class A, Add  | 109.25                    |                         |
| For Work In Restricted Working Space, Add  | 102.42                    |                         |
| 23 31 13 13-0702 LF 38" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 353.20                    | 185.34                  |
| For Seal Class B, Add  | 46.34                     |                         |
| For Seal Class A, Add  | 98.85                     |                         |
| For Work In Restricted Working Space, Add  | 92.67                     |                         |
| 23 31 13 13-0703 LF 38" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 362.49                    | 190.21                  |
| For Seal Class B, Add  | 47.55                     |                         |
| For Seal Class A, Add  | 101.45                    |                         |
| For Work In Restricted Working Space, Add  | 95.11                     |                         |
| 23 31 13 13-0704 LF 38" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 371.79                    | 195.10                  |
| For Seal Class B, Add  | 48.77                     |                         |
| For Seal Class A, Add  | 104.05                    |                         |
| For Work In Restricted Working Space, Add  | 97.55                     |                         |
| 23 31 13 13-0705 LF 38" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 381.07                    | 199.97                  |
| For Seal Class B, Add  | 49.99                     |                         |
| For Seal Class A, Add  | 106.65                    |                         |
| For Work In Restricted Working Space, Add  | 99.98                     |                         |
| 23 31 13 13-0706 LF 38" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 390.37                    | 204.85                  |
| For Seal Class B, Add  | 51.21                     |                         |
| For Seal Class A, Add  | 109.25                    |                         |
| For Work In Restricted Working Space, Add  | 102.42                    |                         |
| 23 31 13 13-0707 LF 38" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.69                    | 209.73                  |
| For Seal Class B, Add  | 52.43                     |                         |
| For Seal Class A, Add  | 111.86                    |                         |
| For Work In Restricted Working Space, Add  | 104.87                    |                         |
| 23 31 13 13-0708 LF 38" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 408.97                    | 214.61                  |
| For Seal Class B, Add  | 53.65                     |                         |
| For Seal Class A, Add  | 114.46                    |                         |
| For Work In Restricted Working Space, Add  | 107.30                    |                         |
| 23 31 13 13-0709 LF 40" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 371.79                    | 195.10                  |
| For Seal Class B, Add  | 48.77                     |                         |
| For Seal Class A, Add  | 104.05                    |                         |
| For Work In Restricted Working Space, Add  | 97.55                     |                         |
| 23 31 13 13-0710 LF 40" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 381.07                    | 199.97                  |
| For Seal Class B, Add  | 49.99                     |                         |
| For Seal Class A, Add  | 106.65                    |                         |
| For Work In Restricted Working Space, Add  | 99.98                     |                         |
| 23 31 13 13-0711 LF 40" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 390.37                    | 204.85                  |
| For Seal Class B, Add  | 51.21                     |                         |
| For Seal Class A, Add  | 109.25                    |                         |
| For Work In Restricted Working Space, Add  | 102.42                    |                         |
| 23 31 13 13-0712 LF 40" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.69                    | 209.73                  |
| For Seal Class B, Add  | 52.43                     |                         |
| For Seal Class A, Add  | 111.86                    |                         |
| For Work In Restricted Working Space, Add  | 104.87                    |                         |
| 23 31 13 13-0713 LF 40" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 408.97                    | 214.61                  |
| For Seal Class B, Add  | 53.65                     |                         |
| For Seal Class A, Add  | 114.46                    |                         |
| For Work In Restricted Working Space, Add  | 107.30                    |                         |
| 23 31 13 13-0714 LF 40" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 418.27                    | 219.48                  |
| For Seal Class B, Add  | 54.87                     |                         |
| For Seal Class A, Add  | 117.06                    |                         |
| For Work In Restricted Working Space, Add  | 109.74                    |                         |
| 23 31 13 13-0715 LF 40" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 427.54                    | 224.37                  |
| For Seal Class B, Add  | 56.09                     |                         |
| For Seal Class A, Add  | 119.66                    |                         |
| For Work In Restricted Working Space, Add  | 112.18                    |                         |
| 23 31 13 13-0716 LF 40" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 436.85                    | 229.24                  |
| For Seal Class B, Add  | 57.31                     |                         |
| For Seal Class A, Add  | 122.26                    |                         |
| For Work In Restricted Working Space, Add  | 114.62                    |                         |
| 23 31 13 13-0717 LF 40" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 446.14                    | 234.12                  |
| For Seal Class B, Add  | 58.53                     |                         |
| For Seal Class A, Add  | 124.86                    |                         |
| For Work In Restricted Working Space, Add  | 117.05                    |                         |
| 23 31 13 13-0718 LF 42" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 390.37                    | 204.85                  |
| For Seal Class B, Add  | 51.21                     |                         |
| For Seal Class A, Add  | 109.25                    |                         |
| For Work In Restricted Working Space, Add  | 102.42                    |                         |
| 23 31 13 13-0719 LF 42" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.69                    | 209.73                  |
| For Seal Class B, Add  | 52.43                     |                         |
| For Seal Class A, Add  | 111.86                    |                         |
| For Work In Restricted Working Space, Add  | 104.87                    |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>HVAC Air Distribution</b>                             | <b>23 30</b> |
| <b>HVAC Ducts and Casings</b>                            | <b>23 31</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST           | DEMOLITION<br>UNIT COST |
|--|-------------------------------------|-------------------------|
| 23 31 13 13-0720 LF 42" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 408.97<br>53.65<br>114.46<br>107.30 | 214.61                  |
| 23 31 13 13-0721 LF 42" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 418.27<br>54.87<br>117.06<br>109.74 | 219.48                  |
| 23 31 13 13-0722 LF 42" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 427.54<br>56.09<br>119.66<br>112.18 | 224.37                  |
| 23 31 13 13-0723 LF 42" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 436.85<br>57.31<br>122.26<br>114.62 | 229.24                  |
| 23 31 13 13-0724 LF 42" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 446.14<br>58.53<br>124.86<br>117.05 | 234.12                  |
| 23 31 13 13-0725 LF 42" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 455.42<br>59.75<br>127.46<br>119.49 | 238.99                  |
| 23 31 13 13-0726 LF 44" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 408.97<br>53.65<br>114.46<br>107.30 | 214.61                  |
| 23 31 13 13-0727 LF 44" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 418.27<br>54.87<br>117.06<br>109.74 | 219.48                  |
| 23 31 13 13-0728 LF 44" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 427.54<br>56.09<br>119.66<br>112.18 | 224.37                  |
| 23 31 13 13-0729 LF 44" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 436.85<br>57.31<br>122.26<br>114.62 | 229.24                  |
| 23 31 13 13-0730 LF 44" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 446.14<br>58.53<br>124.86<br>117.05 | 234.12                  |
| 23 31 13 13-0731 LF 44" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 455.42<br>59.75<br>127.46<br>119.49 | 238.99                  |
| 23 31 13 13-0732 LF 44" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 464.75<br>60.97<br>130.07<br>121.94 | 243.87                  |
| 23 31 13 13-0733 LF 46" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 427.54<br>56.09<br>119.66<br>112.18 | 224.37                  |
| 23 31 13 13-0734 LF 46" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 436.85<br>57.31<br>122.26<br>114.62 | 229.24                  |
| 23 31 13 13-0735 LF 46" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 446.14<br>58.53<br>124.86<br>117.05 | 234.12                  |
| 23 31 13 13-0736 LF 46" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 455.42<br>59.75<br>127.46<br>119.49 | 238.99                  |
| 23 31 13 13-0737 LF 46" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 464.75<br>60.97<br>130.07<br>121.94 | 243.87                  |
| 23 31 13 13-0738 LF 46" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 482.17<br>63.41<br>135.27<br>126.81 | 253.63                  |
| 23 31 13 13-0739 LF 46" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 491.44<br>64.62<br>137.87<br>129.25 | 258.50                  |
| 23 31 13 13-0740 LF 48" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 446.14<br>58.53<br>124.86<br>117.05 | 234.12                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0741 LF 48" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 455.42                    | 238.99                  |
| For Seal Class B, Add  | 59.75                     |                         |
| For Seal Class A, Add  | 127.46                    |                         |
| For Work In Restricted Working Space, Add  | 119.49                    |                         |
| 23 31 13 13-0742 LF 48" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 464.75                    | 243.87                  |
| For Seal Class B, Add  | 60.97                     |                         |
| For Seal Class A, Add  | 130.07                    |                         |
| For Work In Restricted Working Space, Add  | 121.94                    |                         |
| 23 31 13 13-0743 LF 48" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 474.04                    | 248.74                  |
| For Seal Class B, Add  | 62.19                     |                         |
| For Seal Class A, Add  | 132.67                    |                         |
| For Work In Restricted Working Space, Add  | 124.37                    |                         |
| 23 31 13 13-0744 LF 48" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 483.32                    | 253.63                  |
| For Seal Class B, Add  | 63.41                     |                         |
| For Seal Class A, Add  | 135.27                    |                         |
| For Work In Restricted Working Space, Add  | 126.81                    |                         |
| 23 31 13 13-0745 LF 48" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 492.62                    | 258.50                  |
| For Seal Class B, Add  | 64.62                     |                         |
| For Seal Class A, Add  | 137.87                    |                         |
| For Work In Restricted Working Space, Add  | 129.25                    |                         |
| 23 31 13 13-0746 LF 48" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 501.90                    | 263.39                  |
| For Seal Class B, Add  | 65.84                     |                         |
| For Seal Class A, Add  | 140.47                    |                         |
| For Work In Restricted Working Space, Add  | 131.69                    |                         |
| 23 31 13 13-0747 LF 50" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 464.75                    | 243.87                  |
| For Seal Class B, Add  | 60.97                     |                         |
| For Seal Class A, Add  | 130.07                    |                         |
| For Work In Restricted Working Space, Add  | 121.94                    |                         |
| 23 31 13 13-0748 LF 50" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 474.04                    | 248.74                  |
| For Seal Class B, Add  | 62.19                     |                         |
| For Seal Class A, Add  | 132.67                    |                         |
| For Work In Restricted Working Space, Add  | 124.37                    |                         |
| 23 31 13 13-0749 LF 50" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 483.32                    | 253.63                  |
| For Seal Class B, Add  | 63.41                     |                         |
| For Seal Class A, Add  | 135.27                    |                         |
| For Work In Restricted Working Space, Add  | 126.81                    |                         |
| 23 31 13 13-0750 LF 50" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 492.62                    | 258.50                  |
| For Seal Class B, Add  | 64.62                     |                         |
| For Seal Class A, Add  | 137.87                    |                         |
| For Work In Restricted Working Space, Add  | 129.25                    |                         |
| 23 31 13 13-0751 LF 50" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 501.90                    | 263.39                  |
| For Seal Class B, Add  | 65.84                     |                         |
| For Seal Class A, Add  | 140.47                    |                         |
| For Work In Restricted Working Space, Add  | 131.69                    |                         |
| 23 31 13 13-0752 LF 50" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 511.20                    | 268.26                  |
| For Seal Class B, Add  | 67.06                     |                         |
| For Seal Class A, Add  | 143.07                    |                         |
| For Work In Restricted Working Space, Add  | 134.13                    |                         |
| 23 31 13 13-0753 LF 52" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 483.32                    | 253.63                  |
| For Seal Class B, Add  | 63.41                     |                         |
| For Seal Class A, Add  | 135.27                    |                         |
| For Work In Restricted Working Space, Add  | 126.81                    |                         |
| 23 31 13 13-0754 LF 52" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 492.62                    | 258.50                  |
| For Seal Class B, Add  | 64.62                     |                         |
| For Seal Class A, Add  | 137.87                    |                         |
| For Work In Restricted Working Space, Add  | 129.25                    |                         |
| 23 31 13 13-0755 LF 52" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 501.90                    | 263.39                  |
| For Seal Class B, Add  | 65.84                     |                         |
| For Seal Class A, Add  | 140.47                    |                         |
| For Work In Restricted Working Space, Add  | 131.69                    |                         |
| 23 31 13 13-0756 LF 52" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 511.20                    | 268.26                  |
| For Seal Class B, Add  | 67.06                     |                         |
| For Seal Class A, Add  | 143.07                    |                         |
| For Work In Restricted Working Space, Add  | 134.13                    |                         |
| 23 31 13 13-0757 LF 52" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 520.52                    | 273.14                  |
| For Seal Class B, Add  | 68.28                     |                         |
| For Seal Class A, Add  | 145.67                    |                         |
| For Work In Restricted Working Space, Add  | 136.57                    |                         |
| 23 31 13 13-0758 LF 54" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 501.90                    | 263.39                  |
| For Seal Class B, Add  | 65.84                     |                         |
| For Seal Class A, Add  | 140.47                    |                         |
| For Work In Restricted Working Space, Add  | 131.69                    |                         |
| 23 31 13 13-0759 LF 54" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 511.20                    | 268.26                  |
| For Seal Class B, Add  | 67.06                     |                         |
| For Seal Class A, Add  | 143.07                    |                         |
| For Work In Restricted Working Space, Add  | 134.13                    |                         |
| 23 31 13 13-0760 LF 54" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 520.52                    | 273.14                  |
| For Seal Class B, Add  | 68.28                     |                         |
| For Seal Class A, Add  | 145.67                    |                         |
| For Work In Restricted Working Space, Add  | 136.57                    |                         |
| 23 31 13 13-0761 LF 54" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 529.80                    | 278.02                  |
| For Seal Class B, Add  | 69.50                     |                         |
| For Seal Class A, Add  | 148.28                    |                         |
| For Work In Restricted Working Space, Add  | 139.01                    |                         |



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST              | DEMOLITION UNIT COST |
|----------|---------|-----|--|-------------------------------------|----------------------|
| 23 31 13 | 13-0762 | LF  | 54" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 539.09<br>70.72<br>150.87<br>141.44 | 282.88               |
| 23 31 13 | 13-0763 | LF  | 54" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 548.38<br>71.94<br>153.48<br>143.88 | 287.76               |
| 23 31 13 | 13-0764 | LF  | 56" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 520.52<br>68.28<br>145.67<br>136.57 | 273.14               |
| 23 31 13 | 13-0765 | LF  | 56" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 529.80<br>69.50<br>148.28<br>139.01 | 278.02               |
| 23 31 13 | 13-0766 | LF  | 56" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 539.09<br>70.72<br>150.87<br>141.44 | 282.88               |
| 23 31 13 | 13-0767 | LF  | 56" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 548.38<br>71.94<br>153.48<br>143.88 | 287.76               |
| 23 31 13 | 13-0768 | LF  | 56" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 557.67<br>73.16<br>156.07<br>146.32 | 292.64               |
| 23 31 13 | 13-0769 | LF  | 58" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 539.09<br>70.72<br>150.87<br>141.44 | 282.88               |
| 23 31 13 | 13-0770 | LF  | 58" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 548.38<br>71.94<br>153.48<br>143.88 | 287.76               |
| 23 31 13 | 13-0771 | LF  | 58" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 557.67<br>73.16<br>156.07<br>146.32 | 292.64               |
| 23 31 13 | 13-0772 | LF  | 58" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 566.98<br>74.38<br>158.68<br>148.76 | 297.52               |
| 23 31 13 | 13-0773 | LF  | 58" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 576.26<br>75.60<br>161.28<br>151.20 | 302.39               |
| 23 31 13 | 13-0774 | LF  | 60" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 557.67<br>73.16<br>156.07<br>146.32 | 292.64               |
| 23 31 13 | 13-0775 | LF  | 60" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 566.98<br>74.38<br>158.68<br>148.76 | 297.52               |
| 23 31 13 | 13-0776 | LF  | 60" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 576.26<br>75.60<br>161.28<br>151.20 | 302.39               |
| 23 31 13 | 13-0777 | LF  | 60" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 585.57<br>76.82<br>163.88<br>153.64 | 307.28               |
| 23 31 13 | 13-0778 | LF  | 60" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 594.87<br>78.04<br>166.48<br>156.08 | 312.15               |
| 23 31 13 | 13-0779 | LF  | 62" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 576.26<br>75.60<br>161.28<br>151.20 | 302.39               |
| 23 31 13 | 13-0780 | LF  | 62" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 585.57<br>76.82<br>163.88<br>153.64 | 307.28               |
| 23 31 13 | 13-0781 | LF  | 62" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 594.87<br>78.04<br>166.48<br>156.08 | 312.15               |
| 23 31 13 | 13-0782 | LF  | 62" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 604.15<br>79.26<br>169.08<br>158.51 | 317.03               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0783 LF 62" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 613.46                    | 321.91                  |
| For Seal Class B, Add  | 80.48                     |                         |
| For Seal Class A, Add  | 171.69                    |                         |
| For Work In Restricted Working Space, Add  | 160.96                    |                         |
| 23 31 13 13-0784 LF 64" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 594.87                    | 312.15                  |
| For Seal Class B, Add  | 78.04                     |                         |
| For Seal Class A, Add  | 166.48                    |                         |
| For Work In Restricted Working Space, Add  | 156.08                    |                         |
| 23 31 13 13-0785 LF 64" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 604.15                    | 317.03                  |
| For Seal Class B, Add  | 79.26                     |                         |
| For Seal Class A, Add  | 169.08                    |                         |
| For Work In Restricted Working Space, Add  | 158.51                    |                         |
| 23 31 13 13-0786 LF 64" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 613.46                    | 321.91                  |
| For Seal Class B, Add  | 80.48                     |                         |
| For Seal Class A, Add  | 171.69                    |                         |
| For Work In Restricted Working Space, Add  | 160.96                    |                         |
| 23 31 13 13-0787 LF 64" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 622.73                    | 326.79                  |
| For Seal Class B, Add  | 81.70                     |                         |
| For Seal Class A, Add  | 174.28                    |                         |
| For Work In Restricted Working Space, Add  | 163.39                    |                         |
| 23 31 13 13-0788 LF 66" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 613.46                    | 321.91                  |
| For Seal Class B, Add  | 80.48                     |                         |
| For Seal Class A, Add  | 171.69                    |                         |
| For Work In Restricted Working Space, Add  | 160.96                    |                         |
| 23 31 13 13-0789 LF 66" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 622.73                    | 326.79                  |
| For Seal Class B, Add  | 81.70                     |                         |
| For Seal Class A, Add  | 174.28                    |                         |
| For Work In Restricted Working Space, Add  | 163.39                    |                         |
| 23 31 13 13-0790 LF 66" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 632.04                    | 331.65                  |
| For Seal Class B, Add  | 82.92                     |                         |
| For Seal Class A, Add  | 176.89                    |                         |
| For Work In Restricted Working Space, Add  | 165.83                    |                         |
| 23 31 13 13-0791 LF 66" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 641.33                    | 336.54                  |
| For Seal Class B, Add  | 84.13                     |                         |
| For Seal Class A, Add  | 179.48                    |                         |
| For Work In Restricted Working Space, Add  | 168.27                    |                         |
| 23 31 13 13-0792 LF 68" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 632.04                    | 331.65                  |
| For Seal Class B, Add  | 82.92                     |                         |
| For Seal Class A, Add  | 176.89                    |                         |
| For Work In Restricted Working Space, Add  | 165.83                    |                         |
| 23 31 13 13-0793 LF 68" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 641.33                    | 336.54                  |
| For Seal Class B, Add  | 84.13                     |                         |
| For Seal Class A, Add  | 179.48                    |                         |
| For Work In Restricted Working Space, Add  | 168.27                    |                         |
| 23 31 13 13-0794 LF 68" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 650.62                    | 341.41                  |
| For Seal Class B, Add  | 85.35                     |                         |
| For Seal Class A, Add  | 182.09                    |                         |
| For Work In Restricted Working Space, Add  | 170.71                    |                         |
| 23 31 13 13-0795 LF 68" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 659.93                    | 346.29                  |
| For Seal Class B, Add  | 86.57                     |                         |
| For Seal Class A, Add  | 184.69                    |                         |
| For Work In Restricted Working Space, Add  | 173.15                    |                         |
| 23 31 13 13-0796 LF 70" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 650.62                    | 341.41                  |
| For Seal Class B, Add  | 85.35                     |                         |
| For Seal Class A, Add  | 182.09                    |                         |
| For Work In Restricted Working Space, Add  | 170.71                    |                         |
| 23 31 13 13-0797 LF 70" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 659.93                    | 346.29                  |
| For Seal Class B, Add  | 86.57                     |                         |
| For Seal Class A, Add  | 184.69                    |                         |
| For Work In Restricted Working Space, Add  | 173.15                    |                         |
| 23 31 13 13-0798 LF 70" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 669.23                    | 351.17                  |
| For Seal Class B, Add  | 87.79                     |                         |
| For Seal Class A, Add  | 187.29                    |                         |
| For Work In Restricted Working Space, Add  | 175.59                    |                         |
| 23 31 13 13-0799 LF 70" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 678.51                    | 356.05                  |
| For Seal Class B, Add  | 89.01                     |                         |
| For Seal Class A, Add  | 189.89                    |                         |
| For Work In Restricted Working Space, Add  | 178.03                    |                         |
| 23 31 13 13-0800 LF 70" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 687.81                    | 360.92                  |
| For Seal Class B, Add  | 90.23                     |                         |
| For Seal Class A, Add  | 192.49                    |                         |
| For Work In Restricted Working Space, Add  | 180.46                    |                         |
| 23 31 13 13-0801 LF 70" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 697.09                    | 365.81                  |
| For Seal Class B, Add  | 91.45                     |                         |
| For Seal Class A, Add  | 195.09                    |                         |
| For Work In Restricted Working Space, Add  | 182.90                    |                         |
| 23 31 13 13-0802 LF 70" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 706.39                    | 370.68                  |
| For Seal Class B, Add  | 92.67                     |                         |
| For Seal Class A, Add  | 197.70                    |                         |
| For Work In Restricted Working Space, Add  | 185.34                    |                         |
| 23 31 13 13-0803 LF 70" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 715.71                    | 375.56                  |
| For Seal Class B, Add  | 93.89                     |                         |
| For Seal Class A, Add  | 200.30                    |                         |
| For Work In Restricted Working Space, Add  | 187.78                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0804 LF 72" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 669.23                    | 351.17                  |
| <i>For Seal Class B, Add</i>   | 87.79                     |                         |
| <i>For Seal Class A, Add</i>   | 187.29                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 175.59                    |                         |
| 23 31 13 13-0805 LF 72" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 678.51                    | 356.05                  |
| <i>For Seal Class B, Add</i>   | 89.01                     |                         |
| <i>For Seal Class A, Add</i>   | 189.89                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 178.03                    |                         |
| 23 31 13 13-0806 LF 72" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 687.81                    | 360.92                  |
| <i>For Seal Class B, Add</i>   | 90.23                     |                         |
| <i>For Seal Class A, Add</i>   | 192.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 180.46                    |                         |
| 23 31 13 13-0807 LF 72" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 697.09                    | 365.81                  |
| <i>For Seal Class B, Add</i>   | 91.45                     |                         |
| <i>For Seal Class A, Add</i>   | 195.09                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 182.90                    |                         |
| 23 31 13 13-0808 LF 72" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 706.39                    | 370.68                  |
| <i>For Seal Class B, Add</i>   | 92.67                     |                         |
| <i>For Seal Class A, Add</i>   | 197.70                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 185.34                    |                         |
| 23 31 13 13-0809 LF 72" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 715.71                    | 375.56                  |
| <i>For Seal Class B, Add</i>   | 93.89                     |                         |
| <i>For Seal Class A, Add</i>   | 200.30                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 187.78                    |                         |
| 23 31 13 13-0810 LF 72" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 724.99                    | 380.44                  |
| <i>For Seal Class B, Add</i>   | 95.11                     |                         |
| <i>For Seal Class A, Add</i>   | 202.90                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 190.22                    |                         |
| 23 31 13 13-0811 LF 74" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 687.81                    | 360.92                  |
| <i>For Seal Class B, Add</i>   | 90.23                     |                         |
| <i>For Seal Class A, Add</i>   | 192.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 180.46                    |                         |
| 23 31 13 13-0812 LF 74" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 697.09                    | 365.81                  |
| <i>For Seal Class B, Add</i>   | 91.45                     |                         |
| <i>For Seal Class A, Add</i>   | 195.09                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 182.90                    |                         |
| 23 31 13 13-0813 LF 74" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 706.39                    | 370.68                  |
| <i>For Seal Class B, Add</i>   | 92.67                     |                         |
| <i>For Seal Class A, Add</i>   | 197.70                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 185.34                    |                         |
| 23 31 13 13-0814 LF 74" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 715.71                    | 375.56                  |
| <i>For Seal Class B, Add</i>   | 93.89                     |                         |
| <i>For Seal Class A, Add</i>   | 200.30                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 187.78                    |                         |
| 23 31 13 13-0815 LF 74" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 724.99                    | 380.44                  |
| <i>For Seal Class B, Add</i>   | 95.11                     |                         |
| <i>For Seal Class A, Add</i>   | 202.90                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 190.22                    |                         |
| 23 31 13 13-0816 LF 74" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 734.28                    | 385.32                  |
| <i>For Seal Class B, Add</i>   | 96.33                     |                         |
| <i>For Seal Class A, Add</i>   | 205.50                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 192.66                    |                         |
| 23 31 13 13-0817 LF 76" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 706.39                    | 370.68                  |
| <i>For Seal Class B, Add</i>   | 92.67                     |                         |
| <i>For Seal Class A, Add</i>   | 197.70                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 185.34                    |                         |
| 23 31 13 13-0818 LF 76" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 715.71                    | 375.56                  |
| <i>For Seal Class B, Add</i>   | 93.89                     |                         |
| <i>For Seal Class A, Add</i>   | 200.30                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 187.78                    |                         |
| 23 31 13 13-0819 LF 76" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 724.99                    | 380.44                  |
| <i>For Seal Class B, Add</i>   | 95.11                     |                         |
| <i>For Seal Class A, Add</i>   | 202.90                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 190.22                    |                         |
| 23 31 13 13-0820 LF 76" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 734.28                    | 385.32                  |
| <i>For Seal Class B, Add</i>   | 96.33                     |                         |
| <i>For Seal Class A, Add</i>   | 205.50                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 192.66                    |                         |
| 23 31 13 13-0821 LF 76" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 743.57                    | 390.18                  |
| <i>For Seal Class B, Add</i>   | 97.55                     |                         |
| <i>For Seal Class A, Add</i>   | 208.10                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 195.10                    |                         |
| 23 31 13 13-0822 LF 78" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 724.99                    | 380.44                  |
| <i>For Seal Class B, Add</i>   | 95.11                     |                         |
| <i>For Seal Class A, Add</i>   | 202.90                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 190.22                    |                         |
| 23 31 13 13-0823 LF 78" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 734.28                    | 385.32                  |
| <i>For Seal Class B, Add</i>   | 96.33                     |                         |
| <i>For Seal Class A, Add</i>   | 205.50                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 192.66                    |                         |
| 23 31 13 13-0824 LF 78" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 743.57                    | 390.18                  |
| <i>For Seal Class B, Add</i>   | 97.55                     |                         |
| <i>For Seal Class A, Add</i>   | 208.10                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 195.10                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0825 LF 78" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 752.86                    | 395.07                  |
| For Seal Class B, Add  | 98.77                     |                         |
| For Seal Class A, Add  | 210.70                    |                         |
| For Work In Restricted Working Space, Add  | 197.53                    |                         |
| 23 31 13 13-0826 LF 80" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 743.57                    | 390.18                  |
| For Seal Class B, Add  | 97.55                     |                         |
| For Seal Class A, Add  | 208.10                    |                         |
| For Work In Restricted Working Space, Add  | 195.10                    |                         |
| 23 31 13 13-0827 LF 80" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 752.86                    | 395.07                  |
| For Seal Class B, Add  | 98.77                     |                         |
| For Seal Class A, Add  | 210.70                    |                         |
| For Work In Restricted Working Space, Add  | 197.53                    |                         |
| 23 31 13 13-0828 LF 80" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 762.16                    | 399.94                  |
| For Seal Class B, Add  | 99.99                     |                         |
| For Seal Class A, Add  | 213.30                    |                         |
| For Work In Restricted Working Space, Add  | 199.97                    |                         |
| 23 31 13 13-0829 LF 82" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 762.16                    | 399.94                  |
| For Seal Class B, Add  | 99.99                     |                         |
| For Seal Class A, Add  | 213.30                    |                         |
| For Work In Restricted Working Space, Add  | 199.97                    |                         |
| 23 31 13 13-0830 LF 82" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 771.46                    | 404.82                  |
| For Seal Class B, Add  | 101.21                    |                         |
| For Seal Class A, Add  | 215.91                    |                         |
| For Work In Restricted Working Space, Add  | 202.41                    |                         |
| 23 31 13 13-0831 LF 84" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 780.76                    | 409.70                  |
| For Seal Class B, Add  | 102.43                    |                         |
| For Seal Class A, Add  | 218.51                    |                         |
| For Work In Restricted Working Space, Add  | 204.85                    |                         |
| <b>23 31 13 13-0832 18 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)</b>                |                           |                         |
| 23 31 13 13-0833 LF 4" x 4", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 48.41                     | 25.39                   |
| For Seal Class B, Add  | 6.35                      |                         |
| For Seal Class A, Add  | 13.55                     |                         |
| For Work In Restricted Working Space, Add  | 12.70                     |                         |
| 23 31 13 13-0834 LF 4" x 6", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 60.51                     | 31.75                   |
| For Seal Class B, Add  | 7.94                      |                         |
| For Seal Class A, Add  | 16.93                     |                         |
| For Work In Restricted Working Space, Add  | 15.88                     |                         |
| 23 31 13 13-0835 LF 4" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 72.61                     | 38.10                   |
| For Seal Class B, Add  | 9.53                      |                         |
| For Seal Class A, Add  | 20.32                     |                         |
| For Work In Restricted Working Space, Add  | 19.05                     |                         |
| 23 31 13 13-0836 LF 4" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 84.70                     | 44.45                   |
| For Seal Class B, Add  | 11.11                     |                         |
| For Seal Class A, Add  | 23.71                     |                         |
| For Work In Restricted Working Space, Add  | 22.23                     |                         |
| 23 31 13 13-0837 LF 4" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 96.81                     | 50.81                   |
| For Seal Class B, Add  | 12.70                     |                         |
| For Seal Class A, Add  | 27.09                     |                         |
| For Work In Restricted Working Space, Add  | 25.40                     |                         |
| 23 31 13 13-0838 LF 4" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 108.90                    | 57.15                   |
| For Seal Class B, Add  | 14.29                     |                         |
| For Seal Class A, Add  | 30.48                     |                         |
| For Work In Restricted Working Space, Add  | 28.57                     |                         |
| 23 31 13 13-0839 LF 4" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 121.02                    | 63.51                   |
| For Seal Class B, Add  | 15.88                     |                         |
| For Seal Class A, Add  | 33.87                     |                         |
| For Work In Restricted Working Space, Add  | 31.75                     |                         |
| 23 31 13 13-0840 LF 6" x 6", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 72.61                     | 38.10                   |
| For Seal Class B, Add  | 9.53                      |                         |
| For Seal Class A, Add  | 20.32                     |                         |
| For Work In Restricted Working Space, Add  | 19.05                     |                         |
| 23 31 13 13-0841 LF 6" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 84.70                     | 44.45                   |
| For Seal Class B, Add  | 11.11                     |                         |
| For Seal Class A, Add  | 23.71                     |                         |
| For Work In Restricted Working Space, Add  | 22.23                     |                         |
| 23 31 13 13-0842 LF 6" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 96.81                     | 50.81                   |
| For Seal Class B, Add  | 12.70                     |                         |
| For Seal Class A, Add  | 27.09                     |                         |
| For Work In Restricted Working Space, Add  | 25.40                     |                         |
| 23 31 13 13-0843 LF 6" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 108.90                    | 57.15                   |
| For Seal Class B, Add  | 14.29                     |                         |
| For Seal Class A, Add  | 30.48                     |                         |
| For Work In Restricted Working Space, Add  | 28.57                     |                         |
| 23 31 13 13-0844 LF 6" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 121.02                    | 63.51                   |
| For Seal Class B, Add  | 15.88                     |                         |
| For Seal Class A, Add  | 33.87                     |                         |
| For Work In Restricted Working Space, Add  | 31.75                     |                         |
| 23 31 13 13-0845 LF 6" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 133.11                    | 69.85                   |
| For Seal Class B, Add  | 17.46                     |                         |
| For Seal Class A, Add  | 37.25                     |                         |
| For Work In Restricted Working Space, Add  | 34.93                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0846 LF 8" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....   | 96.81                     | 50.81                   |
| For Seal Class B, Add  | 12.70                     |                         |
| For Seal Class A, Add  | 27.09                     |                         |
| For Work In Restricted Working Space, Add  | 25.40                     |                         |
| 23 31 13 13-0847 LF 8" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 108.90                    | 57.15                   |
| For Seal Class B, Add  | 14.29                     |                         |
| For Seal Class A, Add  | 30.48                     |                         |
| For Work In Restricted Working Space, Add  | 28.57                     |                         |
| 23 31 13 13-0848 LF 8" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 121.02                    | 63.51                   |
| For Seal Class B, Add  | 15.88                     |                         |
| For Seal Class A, Add  | 33.87                     |                         |
| For Work In Restricted Working Space, Add  | 31.75                     |                         |
| 23 31 13 13-0849 LF 8" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 133.11                    | 69.85                   |
| For Seal Class B, Add  | 17.46                     |                         |
| For Seal Class A, Add  | 37.25                     |                         |
| For Work In Restricted Working Space, Add  | 34.93                     |                         |
| 23 31 13 13-0850 LF 8" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 145.20                    | 76.20                   |
| For Seal Class B, Add  | 19.05                     |                         |
| For Seal Class A, Add  | 40.64                     |                         |
| For Work In Restricted Working Space, Add  | 38.10                     |                         |
| 23 31 13 13-0851 LF 8" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 157.32                    | 82.55                   |
| For Seal Class B, Add  | 20.64                     |                         |
| For Seal Class A, Add  | 44.03                     |                         |
| For Work In Restricted Working Space, Add  | 41.27                     |                         |
| 23 31 13 13-0852 LF 8" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 169.42                    | 88.90                   |
| For Seal Class B, Add  | 22.23                     |                         |
| For Seal Class A, Add  | 47.41                     |                         |
| For Work In Restricted Working Space, Add  | 44.45                     |                         |
| 23 31 13 13-0853 LF 8" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 181.51                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.63                     |                         |
| 23 31 13 13-0854 LF 8" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....  | 193.61                    | 101.60                  |
| For Seal Class B, Add  | 25.40                     |                         |
| For Seal Class A, Add  | 54.19                     |                         |
| For Work In Restricted Working Space, Add  | 50.80                     |                         |
| 23 31 13 13-0855 LF 10" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 121.02                    | 63.51                   |
| For Seal Class B, Add  | 15.88                     |                         |
| For Seal Class A, Add  | 33.87                     |                         |
| For Work In Restricted Working Space, Add  | 31.75                     |                         |
| 23 31 13 13-0856 LF 10" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 133.11                    | 69.85                   |
| For Seal Class B, Add  | 17.46                     |                         |
| For Seal Class A, Add  | 37.25                     |                         |
| For Work In Restricted Working Space, Add  | 34.93                     |                         |
| 23 31 13 13-0857 LF 10" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 145.20                    | 76.20                   |
| For Seal Class B, Add  | 19.05                     |                         |
| For Seal Class A, Add  | 40.64                     |                         |
| For Work In Restricted Working Space, Add  | 38.10                     |                         |
| 23 31 13 13-0858 LF 10" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 157.32                    | 82.55                   |
| For Seal Class B, Add  | 20.64                     |                         |
| For Seal Class A, Add  | 44.03                     |                         |
| For Work In Restricted Working Space, Add  | 41.27                     |                         |
| 23 31 13 13-0859 LF 10" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.42                    | 88.90                   |
| For Seal Class B, Add  | 22.23                     |                         |
| For Seal Class A, Add  | 47.41                     |                         |
| For Work In Restricted Working Space, Add  | 44.45                     |                         |
| 23 31 13 13-0860 LF 10" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 181.51                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.63                     |                         |
| 23 31 13 13-0861 LF 10" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 193.61                    | 101.60                  |
| For Seal Class B, Add  | 25.40                     |                         |
| For Seal Class A, Add  | 54.19                     |                         |
| For Work In Restricted Working Space, Add  | 50.80                     |                         |
| 23 31 13 13-0862 LF 10" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 205.71                    | 107.96                  |
| For Seal Class B, Add  | 26.99                     |                         |
| For Seal Class A, Add  | 57.57                     |                         |
| For Work In Restricted Working Space, Add  | 53.98                     |                         |
| 23 31 13 13-0863 LF 10" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 217.84                    | 114.30                  |
| For Seal Class B, Add  | 28.58                     |                         |
| For Seal Class A, Add  | 60.96                     |                         |
| For Work In Restricted Working Space, Add  | 57.15                     |                         |
| 23 31 13 13-0864 LF 10" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 229.93                    | 120.66                  |
| For Seal Class B, Add  | 30.16                     |                         |
| For Seal Class A, Add  | 64.35                     |                         |
| For Work In Restricted Working Space, Add  | 60.33                     |                         |
| 23 31 13 13-0865 LF 10" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 242.02                    | 127.00                  |
| For Seal Class B, Add  | 31.75                     |                         |
| For Seal Class A, Add  | 67.73                     |                         |
| For Work In Restricted Working Space, Add  | 63.50                     |                         |
| 23 31 13 13-0866 LF 10" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 254.11                    | 133.35                  |
| For Seal Class B, Add  | 33.34                     |                         |
| For Seal Class A, Add  | 71.12                     |                         |
| For Work In Restricted Working Space, Add  | 66.68                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0867 LF 12" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 145.20                    | 76.20                   |
| For Seal Class B, Add  | 19.05                     |                         |
| For Seal Class A, Add  | 40.64                     |                         |
| For Work In Restricted Working Space, Add  | 38.10                     |                         |
| 23 31 13 13-0868 LF 12" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 157.32                    | 82.55                   |
| For Seal Class B, Add  | 20.64                     |                         |
| For Seal Class A, Add  | 44.03                     |                         |
| For Work In Restricted Working Space, Add  | 41.27                     |                         |
| 23 31 13 13-0869 LF 12" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.42                    | 88.90                   |
| For Seal Class B, Add  | 22.23                     |                         |
| For Seal Class A, Add  | 47.41                     |                         |
| For Work In Restricted Working Space, Add  | 44.45                     |                         |
| 23 31 13 13-0870 LF 12" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 181.51                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.63                     |                         |
| 23 31 13 13-0871 LF 12" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 193.61                    | 101.60                  |
| For Seal Class B, Add  | 25.40                     |                         |
| For Seal Class A, Add  | 54.19                     |                         |
| For Work In Restricted Working Space, Add  | 50.80                     |                         |
| 23 31 13 13-0872 LF 12" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 205.71                    | 107.96                  |
| For Seal Class B, Add  | 26.99                     |                         |
| For Seal Class A, Add  | 57.57                     |                         |
| For Work In Restricted Working Space, Add  | 53.98                     |                         |
| 23 31 13 13-0873 LF 12" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 217.84                    | 114.30                  |
| For Seal Class B, Add  | 28.58                     |                         |
| For Seal Class A, Add  | 60.96                     |                         |
| For Work In Restricted Working Space, Add  | 57.15                     |                         |
| 23 31 13 13-0874 LF 12" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 229.93                    | 120.66                  |
| For Seal Class B, Add  | 30.16                     |                         |
| For Seal Class A, Add  | 64.35                     |                         |
| For Work In Restricted Working Space, Add  | 60.33                     |                         |
| 23 31 13 13-0875 LF 12" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 242.02                    | 127.00                  |
| For Seal Class B, Add  | 31.75                     |                         |
| For Seal Class A, Add  | 67.73                     |                         |
| For Work In Restricted Working Space, Add  | 63.50                     |                         |
| 23 31 13 13-0876 LF 12" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 254.11                    | 133.35                  |
| For Seal Class B, Add  | 33.34                     |                         |
| For Seal Class A, Add  | 71.12                     |                         |
| For Work In Restricted Working Space, Add  | 66.68                     |                         |
| 23 31 13 13-0877 LF 12" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 266.21                    | 139.70                  |
| For Seal Class B, Add  | 34.92                     |                         |
| For Seal Class A, Add  | 74.51                     |                         |
| For Work In Restricted Working Space, Add  | 69.85                     |                         |
| 23 31 13 13-0878 LF 12" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.32                    | 146.05                  |
| For Seal Class B, Add  | 36.51                     |                         |
| For Seal Class A, Add  | 77.89                     |                         |
| For Work In Restricted Working Space, Add  | 73.02                     |                         |
| 23 31 13 13-0879 LF 12" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 290.43                    | 152.39                  |
| For Seal Class B, Add  | 38.10                     |                         |
| For Seal Class A, Add  | 81.28                     |                         |
| For Work In Restricted Working Space, Add  | 76.20                     |                         |
| 23 31 13 13-0880 LF 14" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 169.42                    | 88.90                   |
| For Seal Class B, Add  | 22.23                     |                         |
| For Seal Class A, Add  | 47.41                     |                         |
| For Work In Restricted Working Space, Add  | 44.45                     |                         |
| 23 31 13 13-0881 LF 14" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 181.51                    | 95.24                   |
| For Seal Class B, Add  | 23.81                     |                         |
| For Seal Class A, Add  | 50.80                     |                         |
| For Work In Restricted Working Space, Add  | 47.63                     |                         |
| 23 31 13 13-0882 LF 14" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 193.61                    | 101.60                  |
| For Seal Class B, Add  | 25.40                     |                         |
| For Seal Class A, Add  | 54.19                     |                         |
| For Work In Restricted Working Space, Add  | 50.80                     |                         |
| 23 31 13 13-0883 LF 14" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 205.71                    | 107.96                  |
| For Seal Class B, Add  | 26.99                     |                         |
| For Seal Class A, Add  | 57.57                     |                         |
| For Work In Restricted Working Space, Add  | 53.98                     |                         |
| 23 31 13 13-0884 LF 14" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 217.84                    | 114.30                  |
| For Seal Class B, Add  | 28.58                     |                         |
| For Seal Class A, Add  | 60.96                     |                         |
| For Work In Restricted Working Space, Add  | 57.15                     |                         |
| 23 31 13 13-0885 LF 14" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 229.93                    | 120.66                  |
| For Seal Class B, Add  | 30.16                     |                         |
| For Seal Class A, Add  | 64.35                     |                         |
| For Work In Restricted Working Space, Add  | 60.33                     |                         |
| 23 31 13 13-0886 LF 14" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 242.02                    | 127.00                  |
| For Seal Class B, Add  | 31.75                     |                         |
| For Seal Class A, Add  | 67.73                     |                         |
| For Work In Restricted Working Space, Add  | 63.50                     |                         |
| 23 31 13 13-0887 LF 14" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 254.11                    | 133.35                  |
| For Seal Class B, Add  | 33.34                     |                         |
| For Seal Class A, Add  | 71.12                     |                         |
| For Work In Restricted Working Space, Add  | 66.68                     |                         |



**Heating, Ventilating, and Air-Conditioning (HVAC)**

**23**

HVAC Air Distribution

23 30

HVAC Ducts and Casings

23 31

23

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 23 31 13 | 13-0888 | LF  | 14" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 266.21                 | 139.70               |
|          |         |     | For Seal Class B, Add  | 34.92                  |                      |
|          |         |     | For Seal Class A, Add  | 74.51                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 69.85                  |                      |
| 23 31 13 | 13-0889 | LF  | 14" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 278.32                 | 146.05               |
|          |         |     | For Seal Class B, Add  | 36.51                  |                      |
|          |         |     | For Seal Class A, Add  | 77.89                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 73.02                  |                      |
| 23 31 13 | 13-0890 | LF  | 14" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 290.43                 | 152.39               |
|          |         |     | For Seal Class B, Add  | 38.10                  |                      |
|          |         |     | For Seal Class A, Add  | 81.28                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 76.20                  |                      |
| 23 31 13 | 13-0891 | LF  | 14" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 302.52                 | 158.75               |
|          |         |     | For Seal Class B, Add  | 39.69                  |                      |
|          |         |     | For Seal Class A, Add  | 84.67                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 79.37                  |                      |
| 23 31 13 | 13-0892 | LF  | 16" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 193.61                 | 101.60               |
|          |         |     | For Seal Class B, Add  | 25.40                  |                      |
|          |         |     | For Seal Class A, Add  | 54.19                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 50.80                  |                      |
| 23 31 13 | 13-0893 | LF  | 16" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 205.71                 | 107.96               |
|          |         |     | For Seal Class B, Add  | 26.99                  |                      |
|          |         |     | For Seal Class A, Add  | 57.57                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 53.98                  |                      |
| 23 31 13 | 13-0894 | LF  | 16" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 217.84                 | 114.30               |
|          |         |     | For Seal Class B, Add  | 28.58                  |                      |
|          |         |     | For Seal Class A, Add  | 60.96                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 57.15                  |                      |
| 23 31 13 | 13-0895 | LF  | 16" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 229.93                 | 120.66               |
|          |         |     | For Seal Class B, Add  | 30.16                  |                      |
|          |         |     | For Seal Class A, Add  | 64.35                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 60.33                  |                      |
| 23 31 13 | 13-0896 | LF  | 16" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 242.02                 | 127.00               |
|          |         |     | For Seal Class B, Add  | 31.75                  |                      |
|          |         |     | For Seal Class A, Add  | 67.73                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 63.50                  |                      |
| 23 31 13 | 13-0897 | LF  | 16" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 254.11                 | 133.35               |
|          |         |     | For Seal Class B, Add  | 33.34                  |                      |
|          |         |     | For Seal Class A, Add  | 71.12                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 66.68                  |                      |
| 23 31 13 | 13-0898 | LF  | 16" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 266.21                 | 139.70               |
|          |         |     | For Seal Class B, Add  | 34.92                  |                      |
|          |         |     | For Seal Class A, Add  | 74.51                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 69.85                  |                      |
| 23 31 13 | 13-0899 | LF  | 16" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 278.32                 | 146.05               |
|          |         |     | For Seal Class B, Add  | 36.51                  |                      |
|          |         |     | For Seal Class A, Add  | 77.89                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 73.02                  |                      |
| 23 31 13 | 13-0900 | LF  | 16" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 290.43                 | 152.39               |
|          |         |     | For Seal Class B, Add  | 38.10                  |                      |
|          |         |     | For Seal Class A, Add  | 81.28                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 76.20                  |                      |
| 23 31 13 | 13-0901 | LF  | 16" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 302.52                 | 158.75               |
|          |         |     | For Seal Class B, Add  | 39.69                  |                      |
|          |         |     | For Seal Class A, Add  | 84.67                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 79.37                  |                      |
| 23 31 13 | 13-0902 | LF  | 16" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 314.62                 | 165.09               |
|          |         |     | For Seal Class B, Add  | 41.28                  |                      |
|          |         |     | For Seal Class A, Add  | 88.05                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 82.55                  |                      |
| 23 31 13 | 13-0903 | LF  | 16" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 326.72                 | 171.45               |
|          |         |     | For Seal Class B, Add  | 42.86                  |                      |
|          |         |     | For Seal Class A, Add  | 91.44                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 85.73                  |                      |
| 23 31 13 | 13-0904 | LF  | 16" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 338.83                 | 177.81               |
|          |         |     | For Seal Class B, Add  | 44.45                  |                      |
|          |         |     | For Seal Class A, Add  | 94.83                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 88.90                  |                      |
| 23 31 13 | 13-0905 | LF  | 16" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 350.92                 | 184.15               |
|          |         |     | For Seal Class B, Add  | 46.04                  |                      |
|          |         |     | For Seal Class A, Add  | 98.21                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 92.07                  |                      |
| 23 31 13 | 13-0906 | LF  | 16" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 363.04                 | 190.51               |
|          |         |     | For Seal Class B, Add  | 47.63                  |                      |
|          |         |     | For Seal Class A, Add  | 101.60                 |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 95.25                  |                      |
| 23 31 13 | 13-0907 | LF  | 18" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 217.84                 | 114.30               |
|          |         |     | For Seal Class B, Add  | 28.58                  |                      |
|          |         |     | For Seal Class A, Add  | 60.96                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 57.15                  |                      |
| 23 31 13 | 13-0908 | LF  | 18" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork | 229.93                 | 120.66               |
|          |         |     | For Seal Class B, Add  | 30.16                  |                      |
|          |         |     | For Seal Class A, Add  | 64.35                  |                      |
|          |         |     | For Work In Restricted Working Space, Add                                | 60.33                  |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0909 LF 18" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 242.02                    | 127.00                  |
| For Seal Class B, Add  | 31.75                     |                         |
| For Seal Class A, Add  | 67.73                     |                         |
| For Work In Restricted Working Space, Add  | 63.50                     |                         |
| 23 31 13 13-0910 LF 18" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 254.11                    | 133.35                  |
| For Seal Class B, Add  | 33.34                     |                         |
| For Seal Class A, Add  | 71.12                     |                         |
| For Work In Restricted Working Space, Add  | 66.68                     |                         |
| 23 31 13 13-0911 LF 18" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 266.21                    | 139.70                  |
| For Seal Class B, Add  | 34.92                     |                         |
| For Seal Class A, Add  | 74.51                     |                         |
| For Work In Restricted Working Space, Add  | 69.85                     |                         |
| 23 31 13 13-0912 LF 18" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.32                    | 146.05                  |
| For Seal Class B, Add  | 36.51                     |                         |
| For Seal Class A, Add  | 77.89                     |                         |
| For Work In Restricted Working Space, Add  | 73.02                     |                         |
| 23 31 13 13-0913 LF 18" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 290.43                    | 152.39                  |
| For Seal Class B, Add  | 38.10                     |                         |
| For Seal Class A, Add  | 81.28                     |                         |
| For Work In Restricted Working Space, Add  | 76.20                     |                         |
| 23 31 13 13-0914 LF 18" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 302.52                    | 158.75                  |
| For Seal Class B, Add  | 39.69                     |                         |
| For Seal Class A, Add  | 84.67                     |                         |
| For Work In Restricted Working Space, Add  | 79.37                     |                         |
| 23 31 13 13-0915 LF 18" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 314.62                    | 165.09                  |
| For Seal Class B, Add  | 41.28                     |                         |
| For Seal Class A, Add  | 88.05                     |                         |
| For Work In Restricted Working Space, Add  | 82.55                     |                         |
| 23 31 13 13-0916 LF 18" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 326.72                    | 171.45                  |
| For Seal Class B, Add  | 42.86                     |                         |
| For Seal Class A, Add  | 91.44                     |                         |
| For Work In Restricted Working Space, Add  | 85.73                     |                         |
| 23 31 13 13-0917 LF 18" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 338.83                    | 177.81                  |
| For Seal Class B, Add  | 44.45                     |                         |
| For Seal Class A, Add  | 94.83                     |                         |
| For Work In Restricted Working Space, Add  | 88.90                     |                         |
| 23 31 13 13-0918 LF 18" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 350.92                    | 184.15                  |
| For Seal Class B, Add  | 46.04                     |                         |
| For Seal Class A, Add  | 98.21                     |                         |
| For Work In Restricted Working Space, Add  | 92.07                     |                         |
| 23 31 13 13-0919 LF 18" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.04                    | 190.51                  |
| For Seal Class B, Add  | 47.63                     |                         |
| For Seal Class A, Add  | 101.60                    |                         |
| For Work In Restricted Working Space, Add  | 95.25                     |                         |
| 23 31 13 13-0920 LF 18" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 375.13                    | 196.85                  |
| For Seal Class B, Add  | 49.21                     |                         |
| For Seal Class A, Add  | 104.99                    |                         |
| For Work In Restricted Working Space, Add  | 98.43                     |                         |
| 23 31 13 13-0921 LF 18" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 387.25                    | 203.20                  |
| For Seal Class B, Add  | 50.80                     |                         |
| For Seal Class A, Add  | 108.37                    |                         |
| For Work In Restricted Working Space, Add  | 101.60                    |                         |
| 23 31 13 13-0922 LF 20" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 242.02                    | 127.00                  |
| For Seal Class B, Add  | 31.75                     |                         |
| For Seal Class A, Add  | 67.73                     |                         |
| For Work In Restricted Working Space, Add  | 63.50                     |                         |
| 23 31 13 13-0923 LF 20" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 254.11                    | 133.35                  |
| For Seal Class B, Add  | 33.34                     |                         |
| For Seal Class A, Add  | 71.12                     |                         |
| For Work In Restricted Working Space, Add  | 66.68                     |                         |
| 23 31 13 13-0924 LF 20" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 266.21                    | 139.70                  |
| For Seal Class B, Add  | 34.92                     |                         |
| For Seal Class A, Add  | 74.51                     |                         |
| For Work In Restricted Working Space, Add  | 69.85                     |                         |
| 23 31 13 13-0925 LF 20" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.32                    | 146.05                  |
| For Seal Class B, Add  | 36.51                     |                         |
| For Seal Class A, Add  | 77.89                     |                         |
| For Work In Restricted Working Space, Add  | 73.02                     |                         |
| 23 31 13 13-0926 LF 20" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 290.43                    | 152.39                  |
| For Seal Class B, Add  | 38.10                     |                         |
| For Seal Class A, Add  | 81.28                     |                         |
| For Work In Restricted Working Space, Add  | 76.20                     |                         |
| 23 31 13 13-0927 LF 20" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 302.52                    | 158.75                  |
| For Seal Class B, Add  | 39.69                     |                         |
| For Seal Class A, Add  | 84.67                     |                         |
| For Work In Restricted Working Space, Add  | 79.37                     |                         |
| 23 31 13 13-0928 LF 20" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 314.62                    | 165.09                  |
| For Seal Class B, Add  | 41.28                     |                         |
| For Seal Class A, Add  | 88.05                     |                         |
| For Work In Restricted Working Space, Add  | 82.55                     |                         |
| 23 31 13 13-0929 LF 20" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 326.72                    | 171.45                  |
| For Seal Class B, Add  | 42.86                     |                         |
| For Seal Class A, Add  | 91.44                     |                         |
| For Work In Restricted Working Space, Add  | 85.73                     |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>HVAC Air Distribution</b>                             | <b>23 30</b> |
| <b>HVAC Ducts and Casings</b>                            | <b>23 31</b> |

23

|          | MINOR | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|----------|-------|---------|-----|--|---------------------------|-------------------------|
| 23 31 13 | 13    | 13-0930 | LF  | 20" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 338.83                    | 177.81                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 44.45                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 94.83                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 88.90                     |                         |
| 23 31 13 | 13    | 13-0931 | LF  | 20" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 350.92                    | 184.15                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 46.04                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 98.21                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 92.07                     |                         |
| 23 31 13 | 13    | 13-0932 | LF  | 20" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.04                    | 190.51                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 47.63                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 101.60                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 95.25                     |                         |
| 23 31 13 | 13    | 13-0933 | LF  | 20" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 375.13                    | 196.85                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 49.21                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 104.99                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 98.43                     |                         |
| 23 31 13 | 13    | 13-0934 | LF  | 20" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 387.25                    | 203.20                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 50.80                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 108.37                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 101.60                    |                         |
| 23 31 13 | 13    | 13-0935 | LF  | 20" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.34                    | 209.55                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 52.39                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 111.76                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 104.78                    |                         |
| 23 31 13 | 13    | 13-0936 | LF  | 20" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 411.44                    | 215.90                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 53.98                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 115.15                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 107.95                    |                         |
| 23 31 13 | 13    | 13-0937 | LF  | 22" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 266.21                    | 139.70                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 34.92                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 74.51                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 69.85                     |                         |
| 23 31 13 | 13    | 13-0938 | LF  | 22" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 278.32                    | 146.05                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 36.51                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 77.89                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 73.02                     |                         |
| 23 31 13 | 13    | 13-0939 | LF  | 22" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 290.43                    | 152.39                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 38.10                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 81.28                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 76.20                     |                         |
| 23 31 13 | 13    | 13-0940 | LF  | 22" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 302.52                    | 158.75                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 39.69                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 84.67                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 79.37                     |                         |
| 23 31 13 | 13    | 13-0941 | LF  | 22" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 314.62                    | 165.09                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 41.28                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 88.05                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 82.55                     |                         |
| 23 31 13 | 13    | 13-0942 | LF  | 22" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 326.72                    | 171.45                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 42.86                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 91.44                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 85.73                     |                         |
| 23 31 13 | 13    | 13-0943 | LF  | 22" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 338.83                    | 177.81                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 44.45                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 94.83                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 88.90                     |                         |
| 23 31 13 | 13    | 13-0944 | LF  | 22" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 350.92                    | 184.15                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 46.04                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 98.21                     |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 92.07                     |                         |
| 23 31 13 | 13    | 13-0945 | LF  | 22" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.04                    | 190.51                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 47.63                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 101.60                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 95.25                     |                         |
| 23 31 13 | 13    | 13-0946 | LF  | 22" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 375.13                    | 196.85                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 49.21                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 104.99                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 98.43                     |                         |
| 23 31 13 | 13    | 13-0947 | LF  | 22" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 387.25                    | 203.20                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 50.80                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 108.37                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 101.60                    |                         |
| 23 31 13 | 13    | 13-0948 | LF  | 22" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.34                    | 209.55                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 52.39                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 111.76                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 104.78                    |                         |
| 23 31 13 | 13    | 13-0949 | LF  | 22" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 411.44                    | 215.90                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 53.98                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 115.15                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 107.95                    |                         |
| 23 31 13 | 13    | 13-0950 | LF  | 22" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 423.54                    | 222.25                  |
|          |       |         |     | <i>For Seal Class B, Add</i>   | 55.56                     |                         |
|          |       |         |     | <i>For Seal Class A, Add</i>   | 118.53                    |                         |
|          |       |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 111.13                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-0951 LF 24" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 290.43                    | 152.39                  |
| For Seal Class B, Add  | 38.10                     |                         |
| For Seal Class A, Add  | 81.28                     |                         |
| For Work In Restricted Working Space, Add  | 76.20                     |                         |
| 23 31 13 13-0952 LF 24" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 302.52                    | 158.75                  |
| For Seal Class B, Add  | 39.69                     |                         |
| For Seal Class A, Add  | 84.67                     |                         |
| For Work In Restricted Working Space, Add  | 79.37                     |                         |
| 23 31 13 13-0953 LF 24" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 314.62                    | 165.09                  |
| For Seal Class B, Add  | 41.28                     |                         |
| For Seal Class A, Add  | 88.05                     |                         |
| For Work In Restricted Working Space, Add  | 82.55                     |                         |
| 23 31 13 13-0954 LF 24" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 326.72                    | 171.45                  |
| For Seal Class B, Add  | 42.86                     |                         |
| For Seal Class A, Add  | 91.44                     |                         |
| For Work In Restricted Working Space, Add  | 85.73                     |                         |
| 23 31 13 13-0955 LF 24" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 338.83                    | 177.81                  |
| For Seal Class B, Add  | 44.45                     |                         |
| For Seal Class A, Add  | 94.83                     |                         |
| For Work In Restricted Working Space, Add  | 88.90                     |                         |
| 23 31 13 13-0956 LF 24" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 350.92                    | 184.15                  |
| For Seal Class B, Add  | 46.04                     |                         |
| For Seal Class A, Add  | 98.21                     |                         |
| For Work In Restricted Working Space, Add  | 92.07                     |                         |
| 23 31 13 13-0957 LF 24" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.04                    | 190.51                  |
| For Seal Class B, Add  | 47.63                     |                         |
| For Seal Class A, Add  | 101.60                    |                         |
| For Work In Restricted Working Space, Add  | 95.25                     |                         |
| 23 31 13 13-0958 LF 24" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 375.13                    | 196.85                  |
| For Seal Class B, Add  | 49.21                     |                         |
| For Seal Class A, Add  | 104.99                    |                         |
| For Work In Restricted Working Space, Add  | 98.43                     |                         |
| 23 31 13 13-0959 LF 24" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 387.25                    | 203.20                  |
| For Seal Class B, Add  | 50.80                     |                         |
| For Seal Class A, Add  | 108.37                    |                         |
| For Work In Restricted Working Space, Add  | 101.60                    |                         |
| 23 31 13 13-0960 LF 24" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.34                    | 209.55                  |
| For Seal Class B, Add  | 52.39                     |                         |
| For Seal Class A, Add  | 111.76                    |                         |
| For Work In Restricted Working Space, Add  | 104.78                    |                         |
| 23 31 13 13-0961 LF 24" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 411.44                    | 215.90                  |
| For Seal Class B, Add  | 53.98                     |                         |
| For Seal Class A, Add  | 115.15                    |                         |
| For Work In Restricted Working Space, Add  | 107.95                    |                         |
| 23 31 13 13-0962 LF 24" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 423.54                    | 222.25                  |
| For Seal Class B, Add  | 55.56                     |                         |
| For Seal Class A, Add  | 118.53                    |                         |
| For Work In Restricted Working Space, Add  | 111.13                    |                         |
| 23 31 13 13-0963 LF 24" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 435.62                    | 228.60                  |
| For Seal Class B, Add  | 57.15                     |                         |
| For Seal Class A, Add  | 121.92                    |                         |
| For Work In Restricted Working Space, Add  | 114.30                    |                         |
| 23 31 13 13-0964 LF 26" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 314.62                    | 165.09                  |
| For Seal Class B, Add  | 41.28                     |                         |
| For Seal Class A, Add  | 88.05                     |                         |
| For Work In Restricted Working Space, Add  | 82.55                     |                         |
| 23 31 13 13-0965 LF 26" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 326.72                    | 171.45                  |
| For Seal Class B, Add  | 42.86                     |                         |
| For Seal Class A, Add  | 91.44                     |                         |
| For Work In Restricted Working Space, Add  | 85.73                     |                         |
| 23 31 13 13-0966 LF 26" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 338.83                    | 177.81                  |
| For Seal Class B, Add  | 44.45                     |                         |
| For Seal Class A, Add  | 94.83                     |                         |
| For Work In Restricted Working Space, Add  | 88.90                     |                         |
| 23 31 13 13-0967 LF 26" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 350.92                    | 184.15                  |
| For Seal Class B, Add  | 46.04                     |                         |
| For Seal Class A, Add  | 98.21                     |                         |
| For Work In Restricted Working Space, Add  | 92.07                     |                         |
| 23 31 13 13-0968 LF 26" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 363.04                    | 190.51                  |
| For Seal Class B, Add  | 47.63                     |                         |
| For Seal Class A, Add  | 101.60                    |                         |
| For Work In Restricted Working Space, Add  | 95.25                     |                         |
| 23 31 13 13-0969 LF 26" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 375.13                    | 196.85                  |
| For Seal Class B, Add  | 49.21                     |                         |
| For Seal Class A, Add  | 104.99                    |                         |
| For Work In Restricted Working Space, Add  | 98.43                     |                         |
| 23 31 13 13-0970 LF 26" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 387.25                    | 203.20                  |
| For Seal Class B, Add  | 50.80                     |                         |
| For Seal Class A, Add  | 108.37                    |                         |
| For Work In Restricted Working Space, Add  | 101.60                    |                         |
| 23 31 13 13-0971 LF 26" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.34                    | 209.55                  |
| For Seal Class B, Add  | 52.39                     |                         |
| For Seal Class A, Add  | 111.76                    |                         |
| For Work In Restricted Working Space, Add  | 104.78                    |                         |



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

23

HVAC Ducts and Casings

23 31

Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like LF 26" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork.



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR    |         | DESCRIPTION   | TOTAL DIRECT | DEMOLITION |
|----------|---------|---|--------------|------------|
| CSI      | UOM     |   | UNIT COST    | UNIT COST  |
| 23 31 13 | 13-0993 | LF 30" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 435.62       | 228.60     |
|          |         | <i>For Seal Class B, Add</i>  | 57.15        |            |
|          |         | <i>For Seal Class A, Add</i>  | 121.92       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 114.30       |            |
| 23 31 13 | 13-0994 | LF 30" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 447.75       | 234.95     |
|          |         | <i>For Seal Class B, Add</i>  | 58.74        |            |
|          |         | <i>For Seal Class A, Add</i>  | 125.31       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 117.48       |            |
| 23 31 13 | 13-0995 | LF 30" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 459.86       | 241.29     |
|          |         | <i>For Seal Class B, Add</i>  | 60.33        |            |
|          |         | <i>For Seal Class A, Add</i>  | 128.70       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 120.65       |            |
| 23 31 13 | 13-0996 | LF 30" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 471.94       | 247.66     |
|          |         | <i>For Seal Class B, Add</i>  | 61.91        |            |
|          |         | <i>For Seal Class A, Add</i>  | 132.08       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 123.83       |            |
| 23 31 13 | 13-0997 | LF 32" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 387.25       | 203.20     |
|          |         | <i>For Seal Class B, Add</i>  | 50.80        |            |
|          |         | <i>For Seal Class A, Add</i>  | 108.37       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 101.60       |            |
| 23 31 13 | 13-0998 | LF 32" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 399.34       | 209.55     |
|          |         | <i>For Seal Class B, Add</i>  | 52.39        |            |
|          |         | <i>For Seal Class A, Add</i>  | 111.76       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 104.78       |            |
| 23 31 13 | 13-0999 | LF 32" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 411.44       | 215.90     |
|          |         | <i>For Seal Class B, Add</i>  | 53.98        |            |
|          |         | <i>For Seal Class A, Add</i>  | 115.15       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 107.95       |            |
| 23 31 13 | 13-1000 | LF 32" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 423.54       | 222.25     |
|          |         | <i>For Seal Class B, Add</i>  | 55.56        |            |
|          |         | <i>For Seal Class A, Add</i>  | 118.53       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 111.13       |            |
| 23 31 13 | 13-1001 | LF 32" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 435.62       | 228.60     |
|          |         | <i>For Seal Class B, Add</i>  | 57.15        |            |
|          |         | <i>For Seal Class A, Add</i>  | 121.92       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 114.30       |            |
| 23 31 13 | 13-1002 | LF 32" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 447.75       | 234.95     |
|          |         | <i>For Seal Class B, Add</i>  | 58.74        |            |
|          |         | <i>For Seal Class A, Add</i>  | 125.31       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 117.48       |            |
| 23 31 13 | 13-1003 | LF 32" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 459.86       | 241.29     |
|          |         | <i>For Seal Class B, Add</i>  | 60.33        |            |
|          |         | <i>For Seal Class A, Add</i>  | 128.70       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 120.65       |            |
| 23 31 13 | 13-1004 | LF 32" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 471.94       | 247.66     |
|          |         | <i>For Seal Class B, Add</i>  | 61.91        |            |
|          |         | <i>For Seal Class A, Add</i>  | 132.08       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 123.83       |            |
| 23 31 13 | 13-1005 | LF 32" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 484.03       | 254.00     |
|          |         | <i>For Seal Class B, Add</i>  | 63.50        |            |
|          |         | <i>For Seal Class A, Add</i>  | 135.47       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 127.00       |            |
| 23 31 13 | 13-1006 | LF 34" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 411.44       | 215.90     |
|          |         | <i>For Seal Class B, Add</i>  | 53.98        |            |
|          |         | <i>For Seal Class A, Add</i>  | 115.15       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 107.95       |            |
| 23 31 13 | 13-1007 | LF 34" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 423.54       | 222.25     |
|          |         | <i>For Seal Class B, Add</i>  | 55.56        |            |
|          |         | <i>For Seal Class A, Add</i>  | 118.53       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 111.13       |            |
| 23 31 13 | 13-1008 | LF 34" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 435.62       | 228.60     |
|          |         | <i>For Seal Class B, Add</i>  | 57.15        |            |
|          |         | <i>For Seal Class A, Add</i>  | 121.92       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 114.30       |            |
| 23 31 13 | 13-1009 | LF 34" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 447.75       | 234.95     |
|          |         | <i>For Seal Class B, Add</i>  | 58.74        |            |
|          |         | <i>For Seal Class A, Add</i>  | 125.31       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 117.48       |            |
| 23 31 13 | 13-1010 | LF 34" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 459.86       | 241.29     |
|          |         | <i>For Seal Class B, Add</i>  | 60.33        |            |
|          |         | <i>For Seal Class A, Add</i>  | 128.70       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 120.65       |            |
| 23 31 13 | 13-1011 | LF 34" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 471.94       | 247.66     |
|          |         | <i>For Seal Class B, Add</i>  | 61.91        |            |
|          |         | <i>For Seal Class A, Add</i>  | 132.08       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 123.83       |            |
| 23 31 13 | 13-1012 | LF 34" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 484.03       | 254.00     |
|          |         | <i>For Seal Class B, Add</i>  | 63.50        |            |
|          |         | <i>For Seal Class A, Add</i>  | 135.47       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 127.00       |            |
| 23 31 13 | 13-1013 | LF 34" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 496.13       | 260.35     |
|          |         | <i>For Seal Class B, Add</i>  | 65.09        |            |
|          |         | <i>For Seal Class A, Add</i>  | 138.85       |            |
|          |         | <i>For Work In Restricted Working Space, Add</i>                                  | 130.17       |            |



Heating, Ventilating, and Air-Conditioning (HVAC) 23

HVAC Air Distribution 23 30

HVAC Ducts and Casings 23 31

Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Contains multiple rows of HVAC ductwork items with sub-descriptions like 'For Seal Class B, Add' and 'For Work In Restricted Working Space, Add'.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-1035 LF 40" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 568.76                    | 298.45                  |
| For Seal Class B, Add  | 74.61                     |                         |
| For Seal Class A, Add  | 159.17                    |                         |
| For Work In Restricted Working Space, Add  | 149.23                    |                         |
| 23 31 13 13-1036 LF 40" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 580.85                    | 304.80                  |
| For Seal Class B, Add  | 76.20                     |                         |
| For Seal Class A, Add  | 162.56                    |                         |
| For Work In Restricted Working Space, Add  | 152.40                    |                         |
| 23 31 13 13-1037 LF 42" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 508.25                    | 266.71                  |
| For Seal Class B, Add  | 66.68                     |                         |
| For Seal Class A, Add  | 142.24                    |                         |
| For Work In Restricted Working Space, Add  | 133.35                    |                         |
| 23 31 13 13-1038 LF 42" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 520.35                    | 273.05                  |
| For Seal Class B, Add  | 68.26                     |                         |
| For Seal Class A, Add  | 145.63                    |                         |
| For Work In Restricted Working Space, Add  | 136.53                    |                         |
| 23 31 13 13-1039 LF 42" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 532.45                    | 279.41                  |
| For Seal Class B, Add  | 69.85                     |                         |
| For Seal Class A, Add  | 149.01                    |                         |
| For Work In Restricted Working Space, Add  | 139.70                    |                         |
| 23 31 13 13-1040 LF 42" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 544.54                    | 285.75                  |
| For Seal Class B, Add  | 71.44                     |                         |
| For Seal Class A, Add  | 152.40                    |                         |
| For Work In Restricted Working Space, Add  | 142.88                    |                         |
| 23 31 13 13-1041 LF 42" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 556.64                    | 292.10                  |
| For Seal Class B, Add  | 73.03                     |                         |
| For Seal Class A, Add  | 155.79                    |                         |
| For Work In Restricted Working Space, Add  | 146.05                    |                         |
| 23 31 13 13-1042 LF 42" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 568.76                    | 298.45                  |
| For Seal Class B, Add  | 74.61                     |                         |
| For Seal Class A, Add  | 159.17                    |                         |
| For Work In Restricted Working Space, Add  | 149.23                    |                         |
| 23 31 13 13-1043 LF 42" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 580.85                    | 304.80                  |
| For Seal Class B, Add  | 76.20                     |                         |
| For Seal Class A, Add  | 162.56                    |                         |
| For Work In Restricted Working Space, Add  | 152.40                    |                         |
| 23 31 13 13-1044 LF 42" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 592.95                    | 311.14                  |
| For Seal Class B, Add  | 77.79                     |                         |
| For Seal Class A, Add  | 165.95                    |                         |
| For Work In Restricted Working Space, Add  | 155.57                    |                         |
| 23 31 13 13-1045 LF 44" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 532.45                    | 279.41                  |
| For Seal Class B, Add  | 69.85                     |                         |
| For Seal Class A, Add  | 149.01                    |                         |
| For Work In Restricted Working Space, Add  | 139.70                    |                         |
| 23 31 13 13-1046 LF 44" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 544.54                    | 285.75                  |
| For Seal Class B, Add  | 71.44                     |                         |
| For Seal Class A, Add  | 152.40                    |                         |
| For Work In Restricted Working Space, Add  | 142.88                    |                         |
| 23 31 13 13-1047 LF 44" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 556.64                    | 292.10                  |
| For Seal Class B, Add  | 73.03                     |                         |
| For Seal Class A, Add  | 155.79                    |                         |
| For Work In Restricted Working Space, Add  | 146.05                    |                         |
| 23 31 13 13-1048 LF 44" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 568.76                    | 298.45                  |
| For Seal Class B, Add  | 74.61                     |                         |
| For Seal Class A, Add  | 159.17                    |                         |
| For Work In Restricted Working Space, Add  | 149.23                    |                         |
| 23 31 13 13-1049 LF 44" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 580.85                    | 304.80                  |
| For Seal Class B, Add  | 76.20                     |                         |
| For Seal Class A, Add  | 162.56                    |                         |
| For Work In Restricted Working Space, Add  | 152.40                    |                         |
| 23 31 13 13-1050 LF 44" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 592.95                    | 311.14                  |
| For Seal Class B, Add  | 77.79                     |                         |
| For Seal Class A, Add  | 165.95                    |                         |
| For Work In Restricted Working Space, Add  | 155.57                    |                         |
| 23 31 13 13-1051 LF 44" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 605.06                    | 317.51                  |
| For Seal Class B, Add  | 79.38                     |                         |
| For Seal Class A, Add  | 169.34                    |                         |
| For Work In Restricted Working Space, Add  | 158.75                    |                         |
| 23 31 13 13-1052 LF 46" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 556.64                    | 292.10                  |
| For Seal Class B, Add  | 73.03                     |                         |
| For Seal Class A, Add  | 155.79                    |                         |
| For Work In Restricted Working Space, Add  | 146.05                    |                         |
| 23 31 13 13-1053 LF 46" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 568.76                    | 298.45                  |
| For Seal Class B, Add  | 74.61                     |                         |
| For Seal Class A, Add  | 159.17                    |                         |
| For Work In Restricted Working Space, Add  | 149.23                    |                         |
| 23 31 13 13-1054 LF 46" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 580.85                    | 304.80                  |
| For Seal Class B, Add  | 76.20                     |                         |
| For Seal Class A, Add  | 162.56                    |                         |
| For Work In Restricted Working Space, Add  | 152.40                    |                         |
| 23 31 13 13-1055 LF 46" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 592.95                    | 311.14                  |
| For Seal Class B, Add  | 77.79                     |                         |
| For Seal Class A, Add  | 165.95                    |                         |
| For Work In Restricted Working Space, Add  | 155.57                    |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>HVAC Air Distribution</b>                             | <b>23 30</b> |
| <b>HVAC Ducts and Casings</b>                            | <b>23 31</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-1056 LF 46" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 605.06                    | 317.51                  |
| <i>For Seal Class B, Add</i>   | 79.38                     |                         |
| <i>For Seal Class A, Add</i>   | 169.34                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 158.75                    |                         |
| 23 31 13 13-1057 LF 46" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 627.73                    | 330.20                  |
| <i>For Seal Class B, Add</i>   | 82.55                     |                         |
| <i>For Seal Class A, Add</i>   | 176.11                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 165.10                    |                         |
| 23 31 13 13-1058 LF 46" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 639.84                    | 336.56                  |
| <i>For Seal Class B, Add</i>   | 84.14                     |                         |
| <i>For Seal Class A, Add</i>   | 179.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 168.27                    |                         |
| 23 31 13 13-1059 LF 48" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 580.85                    | 304.80                  |
| <i>For Seal Class B, Add</i>   | 76.20                     |                         |
| <i>For Seal Class A, Add</i>   | 162.56                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 152.40                    |                         |
| 23 31 13 13-1060 LF 48" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 592.95                    | 311.14                  |
| <i>For Seal Class B, Add</i>   | 77.79                     |                         |
| <i>For Seal Class A, Add</i>   | 165.95                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 155.57                    |                         |
| 23 31 13 13-1061 LF 48" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 605.06                    | 317.51                  |
| <i>For Seal Class B, Add</i>   | 79.38                     |                         |
| <i>For Seal Class A, Add</i>   | 169.34                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 158.75                    |                         |
| 23 31 13 13-1062 LF 48" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 617.15                    | 323.86                  |
| <i>For Seal Class B, Add</i>   | 80.96                     |                         |
| <i>For Seal Class A, Add</i>   | 172.72                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 161.93                    |                         |
| 23 31 13 13-1063 LF 48" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 629.27                    | 330.20                  |
| <i>For Seal Class B, Add</i>   | 82.55                     |                         |
| <i>For Seal Class A, Add</i>   | 176.11                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 165.10                    |                         |
| 23 31 13 13-1064 LF 48" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 641.35                    | 336.56                  |
| <i>For Seal Class B, Add</i>   | 84.14                     |                         |
| <i>For Seal Class A, Add</i>   | 179.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 168.27                    |                         |
| 23 31 13 13-1065 LF 48" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 653.45                    | 342.90                  |
| <i>For Seal Class B, Add</i>   | 85.73                     |                         |
| <i>For Seal Class A, Add</i>   | 182.88                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 171.45                    |                         |
| 23 31 13 13-1066 LF 50" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 605.06                    | 317.51                  |
| <i>For Seal Class B, Add</i>   | 79.38                     |                         |
| <i>For Seal Class A, Add</i>   | 169.34                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 158.75                    |                         |
| 23 31 13 13-1067 LF 50" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 617.15                    | 323.86                  |
| <i>For Seal Class B, Add</i>   | 80.96                     |                         |
| <i>For Seal Class A, Add</i>   | 172.72                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 161.93                    |                         |
| 23 31 13 13-1068 LF 50" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 629.27                    | 330.20                  |
| <i>For Seal Class B, Add</i>   | 82.55                     |                         |
| <i>For Seal Class A, Add</i>   | 176.11                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 165.10                    |                         |
| 23 31 13 13-1069 LF 50" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 641.35                    | 336.56                  |
| <i>For Seal Class B, Add</i>   | 84.14                     |                         |
| <i>For Seal Class A, Add</i>   | 179.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 168.27                    |                         |
| 23 31 13 13-1070 LF 50" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 653.45                    | 342.90                  |
| <i>For Seal Class B, Add</i>   | 85.73                     |                         |
| <i>For Seal Class A, Add</i>   | 182.88                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 171.45                    |                         |
| 23 31 13 13-1071 LF 50" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 665.55                    | 349.25                  |
| <i>For Seal Class B, Add</i>   | 87.31                     |                         |
| <i>For Seal Class A, Add</i>   | 186.27                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 174.62                    |                         |
| 23 31 13 13-1072 LF 52" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 629.27                    | 330.20                  |
| <i>For Seal Class B, Add</i>   | 82.55                     |                         |
| <i>For Seal Class A, Add</i>   | 176.11                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 165.10                    |                         |
| 23 31 13 13-1073 LF 52" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 641.35                    | 336.56                  |
| <i>For Seal Class B, Add</i>   | 84.14                     |                         |
| <i>For Seal Class A, Add</i>   | 179.49                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 168.27                    |                         |
| 23 31 13 13-1074 LF 52" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 653.45                    | 342.90                  |
| <i>For Seal Class B, Add</i>   | 85.73                     |                         |
| <i>For Seal Class A, Add</i>   | 182.88                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 171.45                    |                         |
| 23 31 13 13-1075 LF 52" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 665.55                    | 349.25                  |
| <i>For Seal Class B, Add</i>   | 87.31                     |                         |
| <i>For Seal Class A, Add</i>   | 186.27                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 174.62                    |                         |
| 23 31 13 13-1076 LF 52" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 677.65                    | 355.60                  |
| <i>For Seal Class B, Add</i>   | 88.90                     |                         |
| <i>For Seal Class A, Add</i>   | 189.65                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 177.80                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 23 31 13 | 13-1077 | LF  | 54" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 653.45                 | 342.90               |
|          |         |     | <i>For Seal Class B, Add</i>   | 85.73                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 182.88                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 171.45                 |                      |
| 23 31 13 | 13-1078 | LF  | 54" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 665.55                 | 349.25               |
|          |         |     | <i>For Seal Class B, Add</i>   | 87.31                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 186.27                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 174.62                 |                      |
| 23 31 13 | 13-1079 | LF  | 54" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 677.65                 | 355.60               |
|          |         |     | <i>For Seal Class B, Add</i>   | 88.90                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 189.65                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 177.80                 |                      |
| 23 31 13 | 13-1080 | LF  | 54" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 689.77                 | 361.95               |
|          |         |     | <i>For Seal Class B, Add</i>   | 90.49                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 193.04                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 180.98                 |                      |
| 23 31 13 | 13-1081 | LF  | 54" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 701.87                 | 368.29               |
|          |         |     | <i>For Seal Class B, Add</i>   | 92.08                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 196.43                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 184.15                 |                      |
| 23 31 13 | 13-1082 | LF  | 54" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 713.96                 | 374.65               |
|          |         |     | <i>For Seal Class B, Add</i>   | 93.66                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 199.81                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 187.33                 |                      |
| 23 31 13 | 13-1083 | LF  | 56" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 677.65                 | 355.60               |
|          |         |     | <i>For Seal Class B, Add</i>   | 88.90                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 189.65                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 177.80                 |                      |
| 23 31 13 | 13-1084 | LF  | 56" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 689.77                 | 361.95               |
|          |         |     | <i>For Seal Class B, Add</i>   | 90.49                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 193.04                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 180.98                 |                      |
| 23 31 13 | 13-1085 | LF  | 56" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 701.87                 | 368.29               |
|          |         |     | <i>For Seal Class B, Add</i>   | 92.08                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 196.43                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 184.15                 |                      |
| 23 31 13 | 13-1086 | LF  | 56" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 713.96                 | 374.65               |
|          |         |     | <i>For Seal Class B, Add</i>   | 93.66                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 199.81                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 187.33                 |                      |
| 23 31 13 | 13-1087 | LF  | 56" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 726.05                 | 380.99               |
|          |         |     | <i>For Seal Class B, Add</i>   | 95.25                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 203.20                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 190.50                 |                      |
| 23 31 13 | 13-1088 | LF  | 58" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 701.87                 | 368.29               |
|          |         |     | <i>For Seal Class B, Add</i>   | 92.08                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 196.43                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 184.15                 |                      |
| 23 31 13 | 13-1089 | LF  | 58" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 713.96                 | 374.65               |
|          |         |     | <i>For Seal Class B, Add</i>   | 93.66                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 199.81                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 187.33                 |                      |
| 23 31 13 | 13-1090 | LF  | 58" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 726.05                 | 380.99               |
|          |         |     | <i>For Seal Class B, Add</i>   | 95.25                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 203.20                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 190.50                 |                      |
| 23 31 13 | 13-1091 | LF  | 58" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 738.15                 | 387.36               |
|          |         |     | <i>For Seal Class B, Add</i>   | 96.84                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 206.59                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 193.67                 |                      |
| 23 31 13 | 13-1092 | LF  | 58" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 750.27                 | 393.71               |
|          |         |     | <i>For Seal Class B, Add</i>   | 98.43                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 209.97                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 196.85                 |                      |
| 23 31 13 | 13-1093 | LF  | 60" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 726.05                 | 380.99               |
|          |         |     | <i>For Seal Class B, Add</i>   | 95.25                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 203.20                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 190.50                 |                      |
| 23 31 13 | 13-1094 | LF  | 60" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 738.15                 | 387.36               |
|          |         |     | <i>For Seal Class B, Add</i>   | 96.84                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 206.59                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 193.67                 |                      |
| 23 31 13 | 13-1095 | LF  | 60" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 750.27                 | 393.71               |
|          |         |     | <i>For Seal Class B, Add</i>   | 98.43                  |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 209.97                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 196.85                 |                      |
| 23 31 13 | 13-1096 | LF  | 60" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 762.38                 | 400.05               |
|          |         |     | <i>For Seal Class B, Add</i>   | 100.01                 |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 213.36                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 200.03                 |                      |
| 23 31 13 | 13-1097 | LF  | 60" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 774.47                 | 406.41               |
|          |         |     | <i>For Seal Class B, Add</i>   | 101.60                 |                      |
|          |         |     | <i>For Seal Class A, Add</i>   | 216.75                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                               | 203.20                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-1098 LF 62" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 750.27                    | 393.71                  |
| <i>For Seal Class B, Add</i>   | 98.43                     |                         |
| <i>For Seal Class A, Add</i>   | 209.97                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 196.85                    |                         |
| 23 31 13 13-1099 LF 62" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 762.38                    | 400.05                  |
| <i>For Seal Class B, Add</i>   | 100.01                    |                         |
| <i>For Seal Class A, Add</i>   | 213.36                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 200.03                    |                         |
| 23 31 13 13-1100 LF 62" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 774.47                    | 406.41                  |
| <i>For Seal Class B, Add</i>   | 101.60                    |                         |
| <i>For Seal Class A, Add</i>   | 216.75                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 203.20                    |                         |
| 23 31 13 13-1101 LF 62" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 786.57                    | 412.75                  |
| <i>For Seal Class B, Add</i>   | 103.19                    |                         |
| <i>For Seal Class A, Add</i>   | 220.14                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 206.38                    |                         |
| 23 31 13 13-1102 LF 62" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 798.67                    | 419.10                  |
| <i>For Seal Class B, Add</i>   | 104.78                    |                         |
| <i>For Seal Class A, Add</i>   | 223.52                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 209.55                    |                         |
| 23 31 13 13-1103 LF 64" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 774.47                    | 406.41                  |
| <i>For Seal Class B, Add</i>   | 101.60                    |                         |
| <i>For Seal Class A, Add</i>   | 216.75                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 203.20                    |                         |
| 23 31 13 13-1104 LF 64" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 786.57                    | 412.75                  |
| <i>For Seal Class B, Add</i>   | 103.19                    |                         |
| <i>For Seal Class A, Add</i>   | 220.14                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 206.38                    |                         |
| 23 31 13 13-1105 LF 64" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 798.67                    | 419.10                  |
| <i>For Seal Class B, Add</i>   | 104.78                    |                         |
| <i>For Seal Class A, Add</i>   | 223.52                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 209.55                    |                         |
| 23 31 13 13-1106 LF 64" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 810.77                    | 425.45                  |
| <i>For Seal Class B, Add</i>   | 106.36                    |                         |
| <i>For Seal Class A, Add</i>   | 226.91                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 212.72                    |                         |
| 23 31 13 13-1107 LF 66" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 798.67                    | 419.10                  |
| <i>For Seal Class B, Add</i>   | 104.78                    |                         |
| <i>For Seal Class A, Add</i>   | 223.52                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 209.55                    |                         |
| 23 31 13 13-1108 LF 66" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 810.77                    | 425.45                  |
| <i>For Seal Class B, Add</i>   | 106.36                    |                         |
| <i>For Seal Class A, Add</i>   | 226.91                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 212.72                    |                         |
| 23 31 13 13-1109 LF 66" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 822.86                    | 431.80                  |
| <i>For Seal Class B, Add</i>   | 107.95                    |                         |
| <i>For Seal Class A, Add</i>   | 230.29                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 215.90                    |                         |
| 23 31 13 13-1110 LF 66" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 834.97                    | 438.15                  |
| <i>For Seal Class B, Add</i>   | 109.54                    |                         |
| <i>For Seal Class A, Add</i>   | 233.68                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 219.08                    |                         |
| 23 31 13 13-1111 LF 68" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 822.86                    | 431.80                  |
| <i>For Seal Class B, Add</i>   | 107.95                    |                         |
| <i>For Seal Class A, Add</i>   | 230.29                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 215.90                    |                         |
| 23 31 13 13-1112 LF 68" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 834.97                    | 438.15                  |
| <i>For Seal Class B, Add</i>   | 109.54                    |                         |
| <i>For Seal Class A, Add</i>   | 233.68                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 219.08                    |                         |
| 23 31 13 13-1113 LF 68" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 847.07                    | 444.50                  |
| <i>For Seal Class B, Add</i>   | 111.13                    |                         |
| <i>For Seal Class A, Add</i>   | 237.07                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 222.25                    |                         |
| 23 31 13 13-1114 LF 68" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 859.16                    | 450.85                  |
| <i>For Seal Class B, Add</i>   | 112.71                    |                         |
| <i>For Seal Class A, Add</i>   | 240.45                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| 23 31 13 13-1115 LF 70" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 847.07                    | 444.50                  |
| <i>For Seal Class B, Add</i>   | 111.13                    |                         |
| <i>For Seal Class A, Add</i>   | 237.07                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 222.25                    |                         |
| 23 31 13 13-1116 LF 70" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 859.16                    | 450.85                  |
| <i>For Seal Class B, Add</i>   | 112.71                    |                         |
| <i>For Seal Class A, Add</i>   | 240.45                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 225.43                    |                         |
| 23 31 13 13-1117 LF 70" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 871.28                    | 457.20                  |
| <i>For Seal Class B, Add</i>   | 114.30                    |                         |
| <i>For Seal Class A, Add</i>   | 243.84                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 228.60                    |                         |
| 23 31 13 13-1118 LF 70" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 883.38                    | 463.56                  |
| <i>For Seal Class B, Add</i>   | 115.89                    |                         |
| <i>For Seal Class A, Add</i>   | 247.23                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 231.78                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 13-1119 LF 70" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 895.48                    | 469.90                  |
| For Seal Class B, Add  | 117.48                    |                         |
| For Seal Class A, Add  | 250.61                    |                         |
| For Work In Restricted Working Space, Add  | 234.95                    |                         |
| 23 31 13 13-1120 LF 70" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 907.57                    | 476.25                  |
| For Seal Class B, Add  | 119.06                    |                         |
| For Seal Class A, Add  | 254.00                    |                         |
| For Work In Restricted Working Space, Add  | 238.13                    |                         |
| 23 31 13 13-1121 LF 70" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 919.67                    | 482.61                  |
| For Seal Class B, Add  | 120.65                    |                         |
| For Seal Class A, Add  | 257.39                    |                         |
| For Work In Restricted Working Space, Add  | 241.30                    |                         |
| 23 31 13 13-1122 LF 70" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 931.80                    | 488.95                  |
| For Seal Class B, Add  | 122.24                    |                         |
| For Seal Class A, Add  | 260.78                    |                         |
| For Work In Restricted Working Space, Add  | 244.48                    |                         |
| 23 31 13 13-1123 LF 70" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 943.89                    | 495.30                  |
| For Seal Class B, Add  | 123.83                    |                         |
| For Seal Class A, Add  | 264.16                    |                         |
| For Work In Restricted Working Space, Add  | 247.65                    |                         |
| 23 31 13 13-1124 LF 72" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 871.28                    | 457.20                  |
| For Seal Class B, Add  | 114.30                    |                         |
| For Seal Class A, Add  | 243.84                    |                         |
| For Work In Restricted Working Space, Add  | 228.60                    |                         |
| 23 31 13 13-1125 LF 72" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 883.38                    | 463.56                  |
| For Seal Class B, Add  | 115.89                    |                         |
| For Seal Class A, Add  | 247.23                    |                         |
| For Work In Restricted Working Space, Add  | 231.78                    |                         |
| 23 31 13 13-1126 LF 72" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 895.48                    | 469.90                  |
| For Seal Class B, Add  | 117.48                    |                         |
| For Seal Class A, Add  | 250.61                    |                         |
| For Work In Restricted Working Space, Add  | 234.95                    |                         |
| 23 31 13 13-1127 LF 72" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 907.57                    | 476.25                  |
| For Seal Class B, Add  | 119.06                    |                         |
| For Seal Class A, Add  | 254.00                    |                         |
| For Work In Restricted Working Space, Add  | 238.13                    |                         |
| 23 31 13 13-1128 LF 72" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 919.67                    | 482.61                  |
| For Seal Class B, Add  | 120.65                    |                         |
| For Seal Class A, Add  | 257.39                    |                         |
| For Work In Restricted Working Space, Add  | 241.30                    |                         |
| 23 31 13 13-1129 LF 72" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 931.80                    | 488.95                  |
| For Seal Class B, Add  | 122.24                    |                         |
| For Seal Class A, Add  | 260.78                    |                         |
| For Work In Restricted Working Space, Add  | 244.48                    |                         |
| 23 31 13 13-1130 LF 72" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 943.89                    | 495.30                  |
| For Seal Class B, Add  | 123.83                    |                         |
| For Seal Class A, Add  | 264.16                    |                         |
| For Work In Restricted Working Space, Add  | 247.65                    |                         |
| 23 31 13 13-1131 LF 72" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 955.98                    | 501.65                  |
| For Seal Class B, Add  | 125.41                    |                         |
| For Seal Class A, Add  | 267.55                    |                         |
| For Work In Restricted Working Space, Add  | 250.83                    |                         |
| 23 31 13 13-1132 LF 74" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 895.48                    | 469.90                  |
| For Seal Class B, Add  | 117.48                    |                         |
| For Seal Class A, Add  | 250.61                    |                         |
| For Work In Restricted Working Space, Add  | 234.95                    |                         |
| 23 31 13 13-1133 LF 74" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 907.57                    | 476.25                  |
| For Seal Class B, Add  | 119.06                    |                         |
| For Seal Class A, Add  | 254.00                    |                         |
| For Work In Restricted Working Space, Add  | 238.13                    |                         |
| 23 31 13 13-1134 LF 74" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 919.67                    | 482.61                  |
| For Seal Class B, Add  | 120.65                    |                         |
| For Seal Class A, Add  | 257.39                    |                         |
| For Work In Restricted Working Space, Add  | 241.30                    |                         |
| 23 31 13 13-1135 LF 74" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 931.80                    | 488.95                  |
| For Seal Class B, Add  | 122.24                    |                         |
| For Seal Class A, Add  | 260.78                    |                         |
| For Work In Restricted Working Space, Add  | 244.48                    |                         |
| 23 31 13 13-1136 LF 74" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 943.89                    | 495.30                  |
| For Seal Class B, Add  | 123.83                    |                         |
| For Seal Class A, Add  | 264.16                    |                         |
| For Work In Restricted Working Space, Add  | 247.65                    |                         |
| 23 31 13 13-1137 LF 74" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 955.98                    | 501.65                  |
| For Seal Class B, Add  | 125.41                    |                         |
| For Seal Class A, Add  | 267.55                    |                         |
| For Work In Restricted Working Space, Add  | 250.83                    |                         |
| 23 31 13 13-1138 LF 74" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 968.08                    | 508.00                  |
| For Seal Class B, Add  | 127.00                    |                         |
| For Seal Class A, Add  | 270.93                    |                         |
| For Work In Restricted Working Space, Add  | 254.00                    |                         |
| 23 31 13 13-1139 LF 76" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork ..... | 919.67                    | 482.61                  |
| For Seal Class B, Add  | 120.65                    |                         |
| For Seal Class A, Add  | 257.39                    |                         |
| For Work In Restricted Working Space, Add  | 241.30                    |                         |



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                 | DEMOLITION UNIT COST |
|----------|---------|-----|--|--|----------------------|
| 23 31 13 | 13-1140 | LF  | 76" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 931.80<br>122.24<br>260.78<br>244.48   | 488.95               |
| 23 31 13 | 13-1141 | LF  | 76" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 943.89<br>123.83<br>264.16<br>247.65   | 495.30               |
| 23 31 13 | 13-1142 | LF  | 76" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 955.98<br>125.41<br>267.55<br>250.83   | 501.65               |
| 23 31 13 | 13-1143 | LF  | 76" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 968.08<br>127.00<br>270.93<br>254.00   | 508.00               |
| 23 31 13 | 13-1144 | LF  | 76" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 980.18<br>128.59<br>274.32<br>257.18   | 514.35               |
| 23 31 13 | 13-1145 | LF  | 78" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 943.89<br>123.83<br>264.16<br>247.65   | 495.30               |
| 23 31 13 | 13-1146 | LF  | 78" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 955.98<br>125.41<br>267.55<br>250.83   | 501.65               |
| 23 31 13 | 13-1147 | LF  | 78" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 968.08<br>127.00<br>270.93<br>254.00   | 508.00               |
| 23 31 13 | 13-1148 | LF  | 78" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 980.18<br>128.59<br>274.32<br>257.18   | 514.35               |
| 23 31 13 | 13-1149 | LF  | 78" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 992.28<br>130.17<br>277.71<br>260.35   | 520.70               |
| 23 31 13 | 13-1150 | LF  | 80" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 968.08<br>127.00<br>270.93<br>254.00   | 508.00               |
| 23 31 13 | 13-1151 | LF  | 80" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 980.18<br>128.59<br>274.32<br>257.18   | 514.35               |
| 23 31 13 | 13-1152 | LF  | 80" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 992.28<br>130.17<br>277.71<br>260.35   | 520.70               |
| 23 31 13 | 13-1153 | LF  | 80" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,014.97<br>133.35<br>284.48<br>266.70 | 533.41               |
| 23 31 13 | 13-1154 | LF  | 82" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 992.28<br>130.17<br>277.71<br>260.35   | 520.70               |
| 23 31 13 | 13-1155 | LF  | 82" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,004.40<br>131.76<br>281.10<br>263.53 | 527.06               |
| 23 31 13 | 13-1156 | LF  | 82" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,016.48<br>133.35<br>284.48<br>266.70 | 533.41               |
| 23 31 13 | 13-1157 | LF  | 84" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,016.48<br>133.35<br>284.48<br>266.70 | 533.41               |
| 23 31 13 | 13-1158 | LF  | 84" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,028.58<br>134.94<br>287.87<br>269.88 | 539.76               |
| 23 31 13 | 13-1159 | LF  | 86" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork<br><i>For Seal Class B, Add</i><br><i>For Seal Class A, Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,040.68<br>136.53<br>291.25<br>273.05 | 546.10               |

**23 31 13 16 Round and Flat-Oval Spiral Ducts (23 31 13)**



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 31 13 16-0001 Low Pressure Round And Flat-Oval Duct</b> <small>(23 31 13 16)</small><br>Note: 7" diameter round = 4" x 11.85" flat oval. 8" diameter round = 4" x 15" flat oval. 10" diameter round = 4" x 25.99" or 6" x 15.42" or 8" x 11.14" flat oval. 12" diameter round = 6" x 23.28" or 8" x 15.85" flat oval. 14" diameter round = 6" x 32.70" or 8" x 22.14" or 10" x 17.85 or 12" x 15.14" flat oval. 16" diameter round = 6" x 43.70" or 8" x 29.99" or 10" x 24.14" or 12" x 19.85" or 14" x 17.14" flat oval. 18" diameter round = 6" x 59.41" or 8" x 39.42" or 10" x 30.42" or 12" x 24.57" or 14" x 21.85" or 16" x 19.14" flat oval. 20" diameter round = 8" x 51.98" or 10" x 38.27" or 12" x 30.85" or 14" x 26.57" or 16" x 23.85" or 18" x 21.14" flat oval. Includes sealing the joints by tape, mastic, or spray on sealer. |                           |                         |
| <b>23 31 13 16-0002 Galvanized Sheet Metal Round And Flat-Oval Ducts</b> <small>(23 31 13 16-0001)</small><br>Note: Includes straps and supports.  |                           |                         |
| 23 31 13 16-0003 LF 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....   | 9.03                      | 3.38                    |
| For Seal Class B, Add  | 1.04                      |                         |
| For Seal Class A, Add  | 2.76                      |                         |
| For Up To 20', Add   | 0.64                      |                         |
| For >20' To 50', Add   | 0.25                      |                         |
| For >200' To 500', Deduct  | -0.16                     |                         |
| For >500', Deduct  | -0.27                     |                         |
| For 28 Gauge, Deduct   | -0.29                     |                         |
| For 24 Gauge, Add  | 0.29                      |                         |
| For 22 Gauge, Add  | 0.58                      |                         |
| For 20 Gauge, Add  | 0.88                      |                         |
| For 18 Gauge, Add  | 1.17                      |                         |
| For 16 Gauge, Add  | 1.43                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 1.57                      |                         |
| For Work In Restricted Working Space, Add  | 2.07                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.69                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.38                      |                         |
| For Elevated Installation >20' To 25', Add   | 1.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 2.42                      |                         |
| For Elevated Installation >30' To 35', Add   | 2.76                      |                         |
| For Elevated Installation >35' To 40', Add   | 3.46                      |                         |
| For Elevated Installation >40', Add  | 3.80                      |                         |
| 23 31 13 16-0004 LF 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....   | 10.35                     | 3.83                    |
| For Seal Class B, Add  | 1.15                      |                         |
| For Seal Class A, Add  | 3.07                      |                         |
| For Up To 20', Add   | 0.80                      |                         |
| For >20' To 50', Add   | 0.32                      |                         |
| For >200' To 500', Deduct  | -0.20                     |                         |
| For >500', Deduct  | -0.34                     |                         |
| For 28 Gauge, Deduct   | -0.37                     |                         |
| For 24 Gauge, Add  | 0.37                      |                         |
| For 22 Gauge, Add  | 0.74                      |                         |
| For 20 Gauge, Add  | 1.11                      |                         |
| For 18 Gauge, Add  | 1.47                      |                         |
| For 16 Gauge, Add  | 1.81                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 1.98                      |                         |
| For Work In Restricted Working Space, Add  | 2.30                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.53                      |                         |
| For Elevated Installation >20' To 25', Add   | 1.92                      |                         |
| For Elevated Installation >25' To 30', Add   | 2.68                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.07                      |                         |
| For Elevated Installation >35' To 40', Add   | 3.84                      |                         |
| For Elevated Installation >40', Add  | 4.22                      |                         |
| 23 31 13 16-0005 LF 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....   | 11.72                     | 4.60                    |
| For Seal Class B, Add  | 1.29                      |                         |
| For Seal Class A, Add  | 3.45                      |                         |
| For Up To 20', Add   | 0.93                      |                         |
| For >20' To 50', Add   | 0.37                      |                         |
| For >200' To 500', Deduct  | -0.23                     |                         |
| For >500', Deduct  | -0.39                     |                         |
| For 28 Gauge, Deduct   | -0.43                     |                         |
| For 24 Gauge, Add  | 0.43                      |                         |
| For 22 Gauge, Add  | 0.85                      |                         |
| For 20 Gauge, Add  | 1.28                      |                         |
| For 18 Gauge, Add  | 1.70                      |                         |
| For 16 Gauge, Add  | 2.09                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 2.29                      |                         |
| For Work In Restricted Working Space, Add  | 2.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.86                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.73                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.16                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.02                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.45                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.32                      |                         |
| For Elevated Installation >40', Add  | 4.75                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 16-0006 LF 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....  | 13.20                     | 5.37                    |
| For Seal Class B, Add  | 1.48                      |                         |
| For Seal Class A, Add  | 3.94                      |                         |
| For Up To 20', Add   | 1.00                      |                         |
| For >20' To 50', Add   | 0.40                      |                         |
| For >200' To 500', Deduct  | -0.25                     |                         |
| For >500', Deduct  | -0.42                     |                         |
| For 28 Gauge, Deduct   | -0.46                     |                         |
| For 24 Gauge, Add  | 0.46                      |                         |
| For 22 Gauge, Add  | 0.92                      |                         |
| For 20 Gauge, Add  | 1.38                      |                         |
| For 18 Gauge, Add  | 1.84                      |                         |
| For 16 Gauge, Add  | 2.25                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 2.47                      |                         |
| For Work In Restricted Working Space, Add  | 2.96                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.99                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.97                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.47                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.45                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.94                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.93                      |                         |
| For Elevated Installation >40', Add  | 5.42                      |                         |
| 23 31 13 16-0007 LF 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....  | 15.08                     | 6.13                    |
| For Seal Class B, Add  | 1.73                      |                         |
| For Seal Class A, Add  | 4.60                      |                         |
| For Up To 20', Add   | 1.07                      |                         |
| For >20' To 50', Add   | 0.43                      |                         |
| For >200' To 500', Deduct  | -0.27                     |                         |
| For >500', Deduct  | -0.45                     |                         |
| For 28 Gauge, Deduct   | -0.50                     |                         |
| For 24 Gauge, Add  | 0.49                      |                         |
| For 22 Gauge, Add  | 0.99                      |                         |
| For 20 Gauge, Add  | 1.48                      |                         |
| For 18 Gauge, Add  | 1.97                      |                         |
| For 16 Gauge, Add  | 2.42                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 2.65                      |                         |
| For Work In Restricted Working Space, Add  | 3.45                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.15                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.30                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.88                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.03                      |                         |
| For Elevated Installation >30' To 35', Add   | 4.60                      |                         |
| For Elevated Installation >35' To 40', Add   | 5.75                      |                         |
| For Elevated Installation >40', Add  | 6.33                      |                         |
| 23 31 13 16-0008 LF 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct..... | 19.01                     | 7.67                    |
| For Seal Class B, Add  | 2.07                      |                         |
| For Seal Class A, Add  | 5.52                      |                         |
| For Up To 20', Add   | 1.56                      |                         |
| For >20' To 50', Add   | 0.63                      |                         |
| For >200' To 500', Deduct  | -0.39                     |                         |
| For >500', Deduct  | -0.65                     |                         |
| For 28 Gauge, Deduct   | -0.72                     |                         |
| For 24 Gauge, Add  | 0.72                      |                         |
| For 22 Gauge, Add  | 1.44                      |                         |
| For 20 Gauge, Add  | 2.16                      |                         |
| For 18 Gauge, Add  | 2.87                      |                         |
| For 16 Gauge, Add  | 3.52                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 3.86                      |                         |
| For Work In Restricted Working Space, Add  | 4.14                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.76                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.45                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.83                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.52                      |                         |
| For Elevated Installation >35' To 40', Add   | 6.90                      |                         |
| For Elevated Installation >40', Add  | 7.59                      |                         |
| 23 31 13 16-0009 LF 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct..... | 23.34                     | 10.28                   |
| For Seal Class B, Add  | 2.59                      |                         |
| For Seal Class A, Add  | 6.90                      |                         |
| For Up To 20', Add   | 1.83                      |                         |
| For >20' To 50', Add   | 0.73                      |                         |
| For >200' To 500', Deduct  | -0.46                     |                         |
| For >500', Deduct  | -0.76                     |                         |
| For 28 Gauge, Deduct   | -0.84                     |                         |
| For 24 Gauge, Add  | 0.84                      |                         |
| For 22 Gauge, Add  | 1.68                      |                         |
| For 20 Gauge, Add  | 2.52                      |                         |
| For 18 Gauge, Add  | 3.35                      |                         |
| For 16 Gauge, Add  | 4.11                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 4.51                      |                         |
| For Work In Restricted Working Space, Add  | 5.18                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.45                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.31                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.04                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.90                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.63                      |                         |
| For Elevated Installation >40', Add  | 9.49                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 31 13 16-0010 | LF  |     | 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct ..... | 28.50                  | 15.34                |
|                  |     |     | <i>For Seal Class B, Add</i>  | 3.24                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 8.63                   |                      |
|                  |     |     | <i>For Up To 20', Add</i>   | 2.08                   |                      |
|                  |     |     | <i>For &gt;20' To 50', Add</i>  | 0.83                   |                      |
|                  |     |     | <i>For &gt;200' To 500', Deduct</i>   | -0.52                  |                      |
|                  |     |     | <i>For &gt;500', Deduct</i>   | -0.87                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -0.96                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 0.95                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 1.91                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 2.86                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 3.81                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 4.67                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                         | 5.12                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.47                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.16                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.32                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.40                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.55                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.63                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.79                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 11.87                  |                      |
| 23 31 13 16-0011 | LF  |     | 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct ..... | 38.28                  | 20.55                |
|                  |     |     | <i>For Seal Class B, Add</i>  | 4.32                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 11.51                  |                      |
|                  |     |     | <i>For Up To 20', Add</i>   | 2.85                   |                      |
|                  |     |     | <i>For &gt;20' To 50', Add</i>  | 1.14                   |                      |
|                  |     |     | <i>For &gt;200' To 500', Deduct</i>   | -0.71                  |                      |
|                  |     |     | <i>For &gt;500', Deduct</i>   | -1.19                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -1.32                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 1.31                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 2.62                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 3.94                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 5.23                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 6.42                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                         | 7.04                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 8.63                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.88                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.75                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.19                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.07                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 11.51                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 14.39                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.82                  |                      |
| 23 31 13 16-0012 | LF  |     | 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct ..... | 52.89                  | 24.69                |
|                  |     |     | <i>For Up To 20', Add</i>   | 5.51                   |                      |
|                  |     |     | <i>For &gt;20' To 50', Add</i>  | 2.20                   |                      |
|                  |     |     | <i>For &gt;200' To 500', Deduct</i>   | -1.38                  |                      |
|                  |     |     | <i>For &gt;500', Deduct</i>   | -2.30                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -2.54                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 2.54                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 5.06                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 7.61                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 10.10                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 12.40                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                         | 13.59                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 10.36                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.45                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.90                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.63                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.08                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.81                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.26                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 18.99                  |                      |
| 23 31 13 16-0013 | LF  |     | 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct ..... | 60.40                  | 28.53                |
|                  |     |     | <i>For Up To 20', Add</i>   | 6.15                   |                      |
|                  |     |     | <i>For &gt;20' To 50', Add</i>  | 2.46                   |                      |
|                  |     |     | <i>For &gt;200' To 500', Deduct</i>   | -1.54                  |                      |
|                  |     |     | <i>For &gt;500', Deduct</i>   | -2.56                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -2.84                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 2.83                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 5.65                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 8.49                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 11.28                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 13.84                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                         | 15.18                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 11.97                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.99                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.98                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 9.97                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 13.96                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 15.96                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 19.95                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 21.94                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 31 13 16-0014 Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbows <small>(23 31 13 16-0001)</small></b>    |                           |                         |
| Note: Up to 90 degree.  |                           |                         |
| 23 31 13 16-0015 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow..... | 47.01                     | 20.48                   |
| For Seal Class B, Add   | 6.14                      |                         |
| For Seal Class A, Add   | 16.38                     |                         |
| For 28 Gauge, Deduct  | -0.84                     |                         |
| For 24 Gauge, Add   | 0.83                      |                         |
| For 22 Gauge, Add   | 1.67                      |                         |
| For 20 Gauge, Add   | 2.50                      |                         |
| For 18 Gauge, Add   | 3.33                      |                         |
| For 16 Gauge, Add   | 4.08                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 4.48                      |                         |
| For Work In Restricted Working Space, Add   | 12.29                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.10                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.19                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.24                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.34                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.38                     |                         |
| For Elevated Installation >35' To 40', Add  | 20.48                     |                         |
| For Elevated Installation >40', Add   | 22.53                     |                         |
| 23 31 13 16-0016 EA 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow..... | 53.84                     | 23.63                   |
| For Seal Class B, Add   | 7.09                      |                         |
| For Seal Class A, Add   | 18.90                     |                         |
| For 28 Gauge, Deduct  | -0.91                     |                         |
| For 24 Gauge, Add   | 0.91                      |                         |
| For 22 Gauge, Add   | 1.82                      |                         |
| For 20 Gauge, Add   | 2.73                      |                         |
| For 18 Gauge, Add   | 3.62                      |                         |
| For 16 Gauge, Add   | 4.45                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 4.88                      |                         |
| For Work In Restricted Working Space, Add   | 14.18                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.73                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.45                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.81                     |                         |
| For Elevated Installation >25' To 30', Add  | 16.54                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.90                     |                         |
| For Elevated Installation >35' To 40', Add  | 23.63                     |                         |
| For Elevated Installation >40', Add   | 25.99                     |                         |
| 23 31 13 16-0017 EA 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow..... | 63.25                     | 27.92                   |
| For Seal Class B, Add   | 8.38                      |                         |
| For Seal Class A, Add   | 22.34                     |                         |
| For 28 Gauge, Deduct  | -1.03                     |                         |
| For 24 Gauge, Add   | 1.02                      |                         |
| For 22 Gauge, Add   | 2.04                      |                         |
| For 20 Gauge, Add   | 3.07                      |                         |
| For 18 Gauge, Add   | 4.08                      |                         |
| For 16 Gauge, Add   | 5.00                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 5.48                      |                         |
| For Work In Restricted Working Space, Add   | 16.75                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.58                      |                         |
| For Elevated Installation >15' To 20', Add  | 11.17                     |                         |
| For Elevated Installation >20' To 25', Add  | 13.96                     |                         |
| For Elevated Installation >25' To 30', Add  | 19.54                     |                         |
| For Elevated Installation >30' To 35', Add  | 22.34                     |                         |
| For Elevated Installation >35' To 40', Add  | 27.92                     |                         |
| For Elevated Installation >40', Add   | 30.71                     |                         |
| 23 31 13 16-0018 EA 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow..... | 80.90                     | 35.89                   |
| For Seal Class B, Add   | 10.77                     |                         |
| For Seal Class A, Add   | 28.72                     |                         |
| For 28 Gauge, Deduct  | -1.26                     |                         |
| For 24 Gauge, Add   | 1.26                      |                         |
| For 22 Gauge, Add   | 2.51                      |                         |
| For 20 Gauge, Add   | 3.77                      |                         |
| For 18 Gauge, Add   | 5.01                      |                         |
| For 16 Gauge, Add   | 6.15                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 6.74                      |                         |
| For Work In Restricted Working Space, Add   | 21.54                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.18                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.36                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.95                     |                         |
| For Elevated Installation >25' To 30', Add  | 25.13                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.72                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.90                     |                         |
| For Elevated Installation >40', Add   | 39.48                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0019 EA 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....  | 97.28                     | 43.72                   |
| For Seal Class B, Add   | 13.12                     |                         |
| For Seal Class A, Add   | 34.98                     |                         |
| For 28 Gauge, Deduct  | -1.36                     |                         |
| For 24 Gauge, Add   | 1.36                      |                         |
| For 22 Gauge, Add   | 2.71                      |                         |
| For 20 Gauge, Add   | 4.07                      |                         |
| For 18 Gauge, Add   | 5.41                      |                         |
| For 16 Gauge, Add   | 6.64                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 7.28                      |                         |
| For Work In Restricted Working Space, Add   | 26.23                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.74                      |                         |
| For Elevated Installation >15' To 20', Add  | 17.49                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.86                     |                         |
| For Elevated Installation >25' To 30', Add  | 30.60                     |                         |
| For Elevated Installation >30' To 35', Add  | 34.98                     |                         |
| For Elevated Installation >35' To 40', Add  | 43.72                     |                         |
| For Elevated Installation >40', Add   | 48.09                     |                         |
| 23 31 13 16-0020 EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow ..... | 149.51                    | 68.26                   |
| For Seal Class B, Add   | 20.48                     |                         |
| For Seal Class A, Add   | 54.61                     |                         |
| For 28 Gauge, Deduct  | -1.80                     |                         |
| For 24 Gauge, Add   | 1.79                      |                         |
| For 22 Gauge, Add   | 3.58                      |                         |
| For 20 Gauge, Add   | 5.37                      |                         |
| For 18 Gauge, Add   | 7.14                      |                         |
| For 16 Gauge, Add   | 8.76                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 9.61                      |                         |
| For Work In Restricted Working Space, Add   | 40.96                     |                         |
| For Elevated Installation >10' To 15', Add  | 13.65                     |                         |
| For Elevated Installation >15' To 20', Add  | 27.31                     |                         |
| For Elevated Installation >20' To 25', Add  | 34.13                     |                         |
| For Elevated Installation >25' To 30', Add  | 47.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 54.61                     |                         |
| For Elevated Installation >35' To 40', Add  | 68.27                     |                         |
| For Elevated Installation >40', Add   | 75.09                     |                         |
| 23 31 13 16-0021 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow ..... | 206.27                    | 94.34                   |
| For Seal Class B, Add   | 28.30                     |                         |
| For Seal Class A, Add   | 75.47                     |                         |
| For 28 Gauge, Deduct  | -2.44                     |                         |
| For 24 Gauge, Add   | 2.43                      |                         |
| For 22 Gauge, Add   | 4.85                      |                         |
| For 20 Gauge, Add   | 7.28                      |                         |
| For 18 Gauge, Add   | 9.67                      |                         |
| For 16 Gauge, Add   | 11.87                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 13.02                     |                         |
| For Work In Restricted Working Space, Add   | 56.60                     |                         |
| For Elevated Installation >10' To 15', Add  | 18.87                     |                         |
| For Elevated Installation >15' To 20', Add  | 37.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 47.17                     |                         |
| For Elevated Installation >25' To 30', Add  | 66.04                     |                         |
| For Elevated Installation >30' To 35', Add  | 75.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 94.34                     |                         |
| For Elevated Installation >40', Add   | 103.77                    |                         |
| 23 31 13 16-0022 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow ..... | 250.16                    | 111.60                  |
| For Seal Class B, Add   | 33.48                     |                         |
| For Seal Class A, Add   | 89.28                     |                         |
| For 28 Gauge, Deduct  | -3.73                     |                         |
| For 24 Gauge, Add   | 3.72                      |                         |
| For 22 Gauge, Add   | 7.43                      |                         |
| For 20 Gauge, Add   | 11.16                     |                         |
| For 18 Gauge, Add   | 14.83                     |                         |
| For 16 Gauge, Add   | 18.20                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 19.95                     |                         |
| For Work In Restricted Working Space, Add   | 66.96                     |                         |
| For Elevated Installation >10' To 15', Add  | 22.32                     |                         |
| For Elevated Installation >15' To 20', Add  | 44.64                     |                         |
| For Elevated Installation >20' To 25', Add  | 55.80                     |                         |
| For Elevated Installation >25' To 30', Add  | 78.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 89.28                     |                         |
| For Elevated Installation >35' To 40', Add  | 111.60                    |                         |
| For Elevated Installation >40', Add   | 122.76                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0023 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow ..... | 284.08                    | 122.72                  |
| For Seal Class B, Add   | 36.82                     |                         |
| For Seal Class A, Add   | 98.18                     |                         |
| For 28 Gauge, Deduct  | -5.35                     |                         |
| For 24 Gauge, Add   | 5.33                      |                         |
| For 22 Gauge, Add   | 10.65                     |                         |
| For 20 Gauge, Add   | 16.00                     |                         |
| For 18 Gauge, Add   | 21.25                     |                         |
| For 16 Gauge, Add   | 26.08                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 28.59                     |                         |
| For Work In Restricted Working Space, Add   | 73.63                     |                         |
| For Elevated Installation >10' To 15', Add  | 24.54                     |                         |
| For Elevated Installation >15' To 20', Add  | 49.09                     |                         |
| For Elevated Installation >20' To 25', Add  | 61.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 85.90                     |                         |
| For Elevated Installation >30' To 35', Add  | 98.18                     |                         |
| For Elevated Installation >35' To 40', Add  | 122.72                    |                         |
| For Elevated Installation >40', Add   | 134.99                    |                         |
| 23 31 13 16-0024 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow ..... | 313.26                    | 127.71                  |
| For Seal Class B, Add   | 38.31                     |                         |
| For Seal Class A, Add   | 102.16                    |                         |
| For 28 Gauge, Deduct  | -8.01                     |                         |
| For 24 Gauge, Add   | 7.98                      |                         |
| For 22 Gauge, Add   | 15.94                     |                         |
| For 20 Gauge, Add   | 23.95                     |                         |
| For 18 Gauge, Add   | 31.82                     |                         |
| For 16 Gauge, Add   | 39.05                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 42.81                     |                         |
| For Work In Restricted Working Space, Add   | 76.62                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.54                     |                         |
| For Elevated Installation >15' To 20', Add  | 51.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.85                     |                         |
| For Elevated Installation >25' To 30', Add  | 89.39                     |                         |
| For Elevated Installation >30' To 35', Add  | 102.16                    |                         |
| For Elevated Installation >35' To 40', Add  | 127.71                    |                         |
| For Elevated Installation >40', Add   | 140.48                    |                         |
| 23 31 13 16-0025 EA 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow ..... | 340.98                    | 131.92                  |
| For Seal Class B, Add   | 39.58                     |                         |
| For Seal Class A, Add   | 105.54                    |                         |
| For 28 Gauge, Deduct  | -10.68                    |                         |
| For 24 Gauge, Add   | 10.64                     |                         |
| For 22 Gauge, Add   | 21.25                     |                         |
| For 20 Gauge, Add   | 31.93                     |                         |
| For 18 Gauge, Add   | 42.42                     |                         |
| For 16 Gauge, Add   | 52.06                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 57.08                     |                         |
| For Work In Restricted Working Space, Add   | 79.16                     |                         |
| For Elevated Installation >10' To 15', Add  | 26.39                     |                         |
| For Elevated Installation >15' To 20', Add  | 52.77                     |                         |
| For Elevated Installation >20' To 25', Add  | 65.96                     |                         |
| For Elevated Installation >25' To 30', Add  | 92.35                     |                         |
| For Elevated Installation >30' To 35', Add  | 105.54                    |                         |
| For Elevated Installation >35' To 40', Add  | 131.93                    |                         |
| For Elevated Installation >40', Add   | 145.12                    |                         |
| <b>23 31 13 16-0026 Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbows (23 31 13 16-0001)</b>                      |                           |                         |
| 23 31 13 16-0027 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....   | 39.61                     | 13.80                   |
| For Seal Class B, Add   | 5.18                      |                         |
| For Seal Class A, Add   | 13.81                     |                         |
| For 28 Gauge, Deduct  | -0.70                     |                         |
| For 24 Gauge, Add   | 0.70                      |                         |
| For 22 Gauge, Add   | 1.40                      |                         |
| For 20 Gauge, Add   | 2.11                      |                         |
| For 18 Gauge, Add   | 2.80                      |                         |
| For 16 Gauge, Add   | 3.44                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 3.77                      |                         |
| For Work In Restricted Working Space, Add   | 10.36                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.45                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.90                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.63                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.08                     |                         |
| For Elevated Installation >30' To 35', Add  | 13.81                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.26                     |                         |
| For Elevated Installation >40', Add   | 18.99                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 31 13 16-0028 | EA  |     | 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 45.24                  | 15.80                |
|                  |     |     | <i>For Seal Class B, Add</i>  | 5.92                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 15.78                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -0.80                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 0.80                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 1.60                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 2.40                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 3.19                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 3.92                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                   | 4.29                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 11.83                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.94                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.89                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 9.86                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 13.80                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 15.78                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 19.72                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 21.69                  |                      |
| 23 31 13 16-0029 | EA  |     | 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 52.63                  | 18.41                |
|                  |     |     | <i>For Seal Class B, Add</i>  | 6.90                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 18.41                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -0.92                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 0.91                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 1.82                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 2.74                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 3.64                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 4.46                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                   | 4.89                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 13.81                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.60                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.20                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.51                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 16.11                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.41                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 23.01                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 25.31                  |                      |
| 23 31 13 16-0030 | EA  |     | 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 62.23                  | 22.09                |
|                  |     |     | <i>For Seal Class B, Add</i>  | 8.28                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 22.09                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -0.97                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 0.97                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 1.93                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 2.90                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 3.85                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 4.73                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                   | 5.18                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.57                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.52                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.05                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.81                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.33                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.09                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 27.62                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 30.38                  |                      |
| 23 31 13 16-0031 | EA  |     | 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 77.15                  | 27.61                |
|                  |     |     | <i>For Seal Class B, Add</i>  | 10.35                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 27.61                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>   | -1.12                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>  | 1.12                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>  | 2.24                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>  | 3.36                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>  | 4.47                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>  | 5.48                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                   | 6.01                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 20.71                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.90                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.81                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.26                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.16                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 27.61                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 34.52                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 37.97                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 16-0032 EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 103.65                    | 36.82                   |
| For Seal Class B, Add  | 13.81                     |                         |
| For Seal Class A, Add  | 36.82                     |                         |
| For 28 Gauge, Deduct   | -1.61                     |                         |
| For 24 Gauge, Add  | 1.60                      |                         |
| For 22 Gauge, Add  | 3.20                      |                         |
| For 20 Gauge, Add  | 4.81                      |                         |
| For 18 Gauge, Add  | 6.39                      |                         |
| For 16 Gauge, Add  | 7.84                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 8.59                      |                         |
| For Work In Restricted Working Space, Add  | 27.61                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.20                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.41                     |                         |
| For Elevated Installation >20' To 25', Add   | 23.01                     |                         |
| For Elevated Installation >25' To 30', Add   | 32.21                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.82                     |                         |
| For Elevated Installation >35' To 40', Add   | 46.02                     |                         |
| For Elevated Installation >40', Add  | 50.62                     |                         |
| 23 31 13 16-0033 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 153.42                    | 55.23                   |
| For Seal Class B, Add  | 20.71                     |                         |
| For Seal Class A, Add  | 55.22                     |                         |
| For 28 Gauge, Deduct   | -2.13                     |                         |
| For 24 Gauge, Add  | 2.12                      |                         |
| For 22 Gauge, Add  | 4.23                      |                         |
| For 20 Gauge, Add  | 6.36                      |                         |
| For 18 Gauge, Add  | 8.45                      |                         |
| For 16 Gauge, Add  | 10.37                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 11.37                     |                         |
| For Work In Restricted Working Space, Add  | 41.42                     |                         |
| For Elevated Installation >10' To 15', Add   | 13.81                     |                         |
| For Elevated Installation >15' To 20', Add   | 27.61                     |                         |
| For Elevated Installation >20' To 25', Add   | 34.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 48.32                     |                         |
| For Elevated Installation >30' To 35', Add   | 55.22                     |                         |
| For Elevated Installation >35' To 40', Add   | 69.03                     |                         |
| For Elevated Installation >40', Add  | 75.93                     |                         |
| 23 31 13 16-0034 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 205.16                    | 70.56                   |
| For Seal Class B, Add  | 26.46                     |                         |
| For Seal Class A, Add  | 70.56                     |                         |
| For 28 Gauge, Deduct   | -3.98                     |                         |
| For 24 Gauge, Add  | 3.97                      |                         |
| For 22 Gauge, Add  | 7.92                      |                         |
| For 20 Gauge, Add  | 11.90                     |                         |
| For 18 Gauge, Add  | 15.81                     |                         |
| For 16 Gauge, Add  | 19.41                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 21.28                     |                         |
| For Work In Restricted Working Space, Add  | 52.92                     |                         |
| For Elevated Installation >10' To 15', Add   | 17.64                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.28                     |                         |
| For Elevated Installation >20' To 25', Add   | 44.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.56                     |                         |
| For Elevated Installation >35' To 40', Add   | 88.21                     |                         |
| For Elevated Installation >40', Add  | 97.03                     |                         |
| 23 31 13 16-0035 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 257.60                    | 88.97                   |
| For Seal Class B, Add  | 33.36                     |                         |
| For Seal Class A, Add  | 88.97                     |                         |
| For 28 Gauge, Deduct   | -4.87                     |                         |
| For 24 Gauge, Add  | 4.85                      |                         |
| For 22 Gauge, Add  | 9.69                      |                         |
| For 20 Gauge, Add  | 14.56                     |                         |
| For 18 Gauge, Add  | 19.34                     |                         |
| For 16 Gauge, Add  | 23.74                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 26.03                     |                         |
| For Work In Restricted Working Space, Add  | 66.73                     |                         |
| For Elevated Installation >10' To 15', Add   | 22.24                     |                         |
| For Elevated Installation >15' To 20', Add   | 44.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 55.61                     |                         |
| For Elevated Installation >25' To 30', Add   | 77.85                     |                         |
| For Elevated Installation >30' To 35', Add   | 88.97                     |                         |
| For Elevated Installation >35' To 40', Add   | 111.22                    |                         |
| For Elevated Installation >40', Add  | 122.34                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 23 31 13 16-0036        | EA  |     | 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 286.27                 | 92.81                |
|                         |     |     | <i>For Seal Class B, Add</i>   | 34.74                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>   | 92.65                  |                      |
|                         |     |     | <i>For 28 Gauge, Deduct</i>  | -7.57                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>   | 7.54                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>   | 15.05                  |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>   | 22.62                  |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>   | 30.05                  |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>   | 36.88                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                    | 40.43                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>   | 69.49                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 23.16                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 46.33                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 57.91                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 81.07                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 92.65                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 115.82                 |                      |
|                         |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 127.40                 |                      |
| 23 31 13 16-0037        | EA  |     | 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow ..... | 310.63                 | 95.10                |
|                         |     |     | <i>For Seal Class B, Add</i>   | 35.67                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>   | 95.11                  |                      |
|                         |     |     | <i>For 28 Gauge, Deduct</i>  | -10.09                 |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>   | 10.05                  |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>   | 20.07                  |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>   | 30.16                  |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>   | 40.07                  |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>   | 49.17                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                    | 53.91                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>   | 71.33                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 23.78                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 47.56                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 59.45                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 83.22                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 95.11                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 118.89                 |                      |
|                         |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 130.78                 |                      |
| <b>23 31 13 16-0038</b> |     |     | <b>Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbows</b> <small>(23 31 13 16-0001)</small>   |                        |                      |
| 23 31 13 16-0039        | EA  |     | 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....  | 37.72                  | 13.80                |
|                         |     |     | <i>For Seal Class B, Add</i>   | 5.18                   |                      |
|                         |     |     | <i>For Seal Class A, Add</i>   | 13.81                  |                      |
|                         |     |     | <i>For 28 Gauge, Deduct</i>  | -0.44                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>   | 0.44                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>   | 0.88                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>   | 1.32                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>   | 1.76                   |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>   | 2.16                   |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                    | 2.37                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>   | 10.36                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.45                   |                      |
|                         |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 6.90                   |                      |
|                         |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 8.63                   |                      |
|                         |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 12.08                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 13.81                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 17.26                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 18.99                  |                      |
| 23 31 13 16-0040        | EA  |     | 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....  | 43.55                  | 15.80                |
|                         |     |     | <i>For Seal Class B, Add</i>   | 5.92                   |                      |
|                         |     |     | <i>For Seal Class A, Add</i>   | 15.78                  |                      |
|                         |     |     | <i>For 28 Gauge, Deduct</i>  | -0.57                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>   | 0.57                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>   | 1.13                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>   | 1.70                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>   | 2.26                   |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>   | 2.77                   |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                                    | 3.04                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>   | 11.83                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.94                   |                      |
|                         |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 7.89                   |                      |
|                         |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 9.86                   |                      |
|                         |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 13.80                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 15.78                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 19.72                  |                      |
|                         |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 21.69                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0041 EA 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....  | 50.50                     | 18.41                   |
| For Seal Class B, Add   | 6.90                      |                         |
| For Seal Class A, Add   | 18.41                     |                         |
| For 28 Gauge, Deduct  | -0.62                     |                         |
| For 24 Gauge, Add   | 0.62                      |                         |
| For 22 Gauge, Add   | 1.23                      |                         |
| For 20 Gauge, Add   | 1.85                      |                         |
| For 18 Gauge, Add   | 2.46                      |                         |
| For 16 Gauge, Add   | 3.02                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 3.32                      |                         |
| For Work In Restricted Working Space, Add   | 13.81                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.60                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.20                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.51                     |                         |
| For Elevated Installation >25' To 30', Add  | 16.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.41                     |                         |
| For Elevated Installation >35' To 40', Add  | 23.01                     |                         |
| For Elevated Installation >40', Add   | 25.31                     |                         |
| 23 31 13 16-0042 EA 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....  | 60.43                     | 22.09                   |
| For Seal Class B, Add   | 8.28                      |                         |
| For Seal Class A, Add   | 22.09                     |                         |
| For 28 Gauge, Deduct  | -0.72                     |                         |
| For 24 Gauge, Add   | 0.72                      |                         |
| For 22 Gauge, Add   | 1.43                      |                         |
| For 20 Gauge, Add   | 2.15                      |                         |
| For 18 Gauge, Add   | 2.86                      |                         |
| For 16 Gauge, Add   | 3.51                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 3.85                      |                         |
| For Work In Restricted Working Space, Add   | 16.57                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.52                      |                         |
| For Elevated Installation >15' To 20', Add  | 11.05                     |                         |
| For Elevated Installation >20' To 25', Add  | 13.81                     |                         |
| For Elevated Installation >25' To 30', Add  | 19.33                     |                         |
| For Elevated Installation >30' To 35', Add  | 22.09                     |                         |
| For Elevated Installation >35' To 40', Add  | 27.62                     |                         |
| For Elevated Installation >40', Add   | 30.38                     |                         |
| 23 31 13 16-0043 EA 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....  | 74.94                     | 27.61                   |
| For Seal Class B, Add   | 10.35                     |                         |
| For Seal Class A, Add   | 27.61                     |                         |
| For 28 Gauge, Deduct  | -0.82                     |                         |
| For 24 Gauge, Add   | 0.82                      |                         |
| For 22 Gauge, Add   | 1.63                      |                         |
| For 20 Gauge, Add   | 2.45                      |                         |
| For 18 Gauge, Add   | 3.25                      |                         |
| For 16 Gauge, Add   | 3.99                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 4.37                      |                         |
| For Work In Restricted Working Space, Add   | 20.71                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.90                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.81                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.26                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.16                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.61                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.52                     |                         |
| For Elevated Installation >40', Add   | 37.97                     |                         |
| 23 31 13 16-0044 EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow..... | 101.06                    | 36.82                   |
| For Seal Class B, Add   | 13.81                     |                         |
| For Seal Class A, Add   | 36.82                     |                         |
| For 28 Gauge, Deduct  | -1.25                     |                         |
| For 24 Gauge, Add   | 1.24                      |                         |
| For 22 Gauge, Add   | 2.49                      |                         |
| For 20 Gauge, Add   | 3.73                      |                         |
| For 18 Gauge, Add   | 4.96                      |                         |
| For 16 Gauge, Add   | 6.09                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 6.67                      |                         |
| For Work In Restricted Working Space, Add   | 27.61                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.20                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.41                     |                         |
| For Elevated Installation >20' To 25', Add  | 23.01                     |                         |
| For Elevated Installation >25' To 30', Add  | 32.21                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.82                     |                         |
| For Elevated Installation >35' To 40', Add  | 46.02                     |                         |
| For Elevated Installation >40', Add   | 50.62                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 16-0045 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow ..... | 149.67                    | 55.23                   |
| For Seal Class B, Add  | 20.71                     |                         |
| For Seal Class A, Add  | 55.22                     |                         |
| For 28 Gauge, Deduct   | -1.61                     |                         |
| For 24 Gauge, Add  | 1.60                      |                         |
| For 22 Gauge, Add  | 3.20                      |                         |
| For 20 Gauge, Add  | 4.81                      |                         |
| For 18 Gauge, Add  | 6.39                      |                         |
| For 16 Gauge, Add  | 7.84                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 8.59                      |                         |
| For Work In Restricted Working Space, Add  | 41.42                     |                         |
| For Elevated Installation >10' To 15', Add   | 13.81                     |                         |
| For Elevated Installation >15' To 20', Add   | 27.61                     |                         |
| For Elevated Installation >20' To 25', Add   | 34.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 48.32                     |                         |
| For Elevated Installation >30' To 35', Add   | 55.22                     |                         |
| For Elevated Installation >35' To 40', Add   | 69.03                     |                         |
| For Elevated Installation >40', Add  | 75.93                     |                         |
| 23 31 13 16-0046 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow ..... | 196.50                    | 70.56                   |
| For Seal Class B, Add  | 26.46                     |                         |
| For Seal Class A, Add  | 70.56                     |                         |
| For 28 Gauge, Deduct   | -2.78                     |                         |
| For 24 Gauge, Add  | 2.77                      |                         |
| For 22 Gauge, Add  | 5.53                      |                         |
| For 20 Gauge, Add  | 8.32                      |                         |
| For 18 Gauge, Add  | 11.05                     |                         |
| For 16 Gauge, Add  | 13.56                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 14.87                     |                         |
| For Work In Restricted Working Space, Add  | 52.92                     |                         |
| For Elevated Installation >10' To 15', Add   | 17.64                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.28                     |                         |
| For Elevated Installation >20' To 25', Add   | 44.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.56                     |                         |
| For Elevated Installation >35' To 40', Add   | 88.21                     |                         |
| For Elevated Installation >40', Add  | 97.03                     |                         |
| 23 31 13 16-0047 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow ..... | 255.37                    | 88.97                   |
| For Seal Class B, Add  | 33.36                     |                         |
| For Seal Class A, Add  | 88.97                     |                         |
| For 28 Gauge, Deduct   | -4.56                     |                         |
| For 24 Gauge, Add  | 4.55                      |                         |
| For 22 Gauge, Add  | 9.07                      |                         |
| For 20 Gauge, Add  | 13.64                     |                         |
| For 18 Gauge, Add  | 18.12                     |                         |
| For 16 Gauge, Add  | 22.23                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 24.38                     |                         |
| For Work In Restricted Working Space, Add  | 66.73                     |                         |
| For Elevated Installation >10' To 15', Add   | 22.24                     |                         |
| For Elevated Installation >15' To 20', Add   | 44.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 55.61                     |                         |
| For Elevated Installation >25' To 30', Add   | 77.85                     |                         |
| For Elevated Installation >30' To 35', Add   | 88.97                     |                         |
| For Elevated Installation >35' To 40', Add   | 111.22                    |                         |
| For Elevated Installation >40', Add  | 122.34                    |                         |
| 23 31 13 16-0048 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow ..... | 271.45                    | 92.81                   |
| For Seal Class B, Add  | 34.74                     |                         |
| For Seal Class A, Add  | 92.65                     |                         |
| For 28 Gauge, Deduct   | -5.52                     |                         |
| For 24 Gauge, Add  | 5.50                      |                         |
| For 22 Gauge, Add  | 10.97                     |                         |
| For 20 Gauge, Add  | 16.49                     |                         |
| For 18 Gauge, Add  | 21.90                     |                         |
| For 16 Gauge, Add  | 26.88                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 29.47                     |                         |
| For Work In Restricted Working Space, Add  | 69.49                     |                         |
| For Elevated Installation >10' To 15', Add   | 23.16                     |                         |
| For Elevated Installation >15' To 20', Add   | 46.33                     |                         |
| For Elevated Installation >20' To 25', Add   | 57.91                     |                         |
| For Elevated Installation >25' To 30', Add   | 81.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 92.65                     |                         |
| For Elevated Installation >35' To 40', Add   | 115.82                    |                         |
| For Elevated Installation >40', Add  | 127.40                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 16-0049 EA 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow ..... | 288.79                    | 95.10                   |
| For Seal Class B, Add  | 35.67                     |                         |
| For Seal Class A, Add  | 95.11                     |                         |
| For 28 Gauge, Deduct   | -7.06                     |                         |
| For 24 Gauge, Add  | 7.04                      |                         |
| For 22 Gauge, Add  | 14.05                     |                         |
| For 20 Gauge, Add  | 21.12                     |                         |
| For 18 Gauge, Add  | 28.06                     |                         |
| For 16 Gauge, Add  | 34.43                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 37.75                     |                         |
| For Work In Restricted Working Space, Add  | 71.33                     |                         |
| For Elevated Installation >10' To 15', Add   | 23.78                     |                         |
| For Elevated Installation >15' To 20', Add   | 47.56                     |                         |
| For Elevated Installation >20' To 25', Add   | 59.45                     |                         |
| For Elevated Installation >25' To 30', Add   | 83.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 95.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 118.89                    |                         |
| For Elevated Installation >40', Add  | 130.78                    |                         |
| <b>23 31 13 16-0050 Galvanized Sheet Metal Round And Flat-Oval Tees (23 31 13 16-0001)</b>                                 |                           |                         |
| 23 31 13 16-0051 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....              | 58.89                     | 20.71                   |
| For Seal Class B, Add  | 7.77                      |                         |
| For Seal Class A, Add  | 20.71                     |                         |
| For 28 Gauge, Deduct   | -0.99                     |                         |
| For 24 Gauge, Add  | 0.98                      |                         |
| For 22 Gauge, Add  | 1.96                      |                         |
| For 20 Gauge, Add  | 2.95                      |                         |
| For 18 Gauge, Add  | 3.92                      |                         |
| For 16 Gauge, Add  | 4.81                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 5.27                      |                         |
| For Work In Restricted Working Space, Add  | 15.53                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.18                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 12.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.71                     |                         |
| For Elevated Installation >35' To 40', Add   | 25.89                     |                         |
| For Elevated Installation >40', Add  | 28.47                     |                         |
| 23 31 13 16-0052 EA 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....              | 68.63                     | 23.63                   |
| For Seal Class B, Add  | 8.88                      |                         |
| For Seal Class A, Add  | 23.67                     |                         |
| For 28 Gauge, Deduct   | -1.31                     |                         |
| For 24 Gauge, Add  | 1.31                      |                         |
| For 22 Gauge, Add  | 2.61                      |                         |
| For 20 Gauge, Add  | 3.92                      |                         |
| For 18 Gauge, Add  | 5.20                      |                         |
| For 16 Gauge, Add  | 6.39                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 7.00                      |                         |
| For Work In Restricted Working Space, Add  | 17.75                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.92                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.83                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 20.71                     |                         |
| For Elevated Installation >30' To 35', Add   | 23.67                     |                         |
| For Elevated Installation >35' To 40', Add   | 29.59                     |                         |
| For Elevated Installation >40', Add  | 32.54                     |                         |
| 23 31 13 16-0053 EA 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....              | 79.30                     | 27.61                   |
| For Seal Class B, Add  | 10.35                     |                         |
| For Seal Class A, Add  | 27.61                     |                         |
| For 28 Gauge, Deduct   | -1.42                     |                         |
| For 24 Gauge, Add  | 1.42                      |                         |
| For 22 Gauge, Add  | 2.83                      |                         |
| For 20 Gauge, Add  | 4.25                      |                         |
| For 18 Gauge, Add  | 5.65                      |                         |
| For 16 Gauge, Add  | 6.93                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 7.60                      |                         |
| For Work In Restricted Working Space, Add  | 20.71                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.90                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.81                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.26                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.16                     |                         |
| For Elevated Installation >30' To 35', Add   | 27.61                     |                         |
| For Elevated Installation >35' To 40', Add   | 34.52                     |                         |
| For Elevated Installation >40', Add  | 37.97                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 31 13 16-0054 | EA  |     | 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....  | 94.65                  | 33.14                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 12.42                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 33.13                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>  | -1.64                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 1.63                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 3.26                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 4.89                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 6.50                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 7.98                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                        | 8.75                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 24.85                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                                       | 8.28                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                                       | 16.57                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                                       | 20.71                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                                       | 28.99                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                                       | 33.13                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                                       | 41.42                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 45.56                  |                      |
| 23 31 13 16-0055 | EA  |     | 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....  | 122.66                 | 41.41                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 15.53                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 41.42                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>  | -2.65                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 2.64                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 5.26                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 7.91                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 10.51                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 12.89                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                        | 14.13                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 31.07                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                                       | 10.36                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                                       | 20.71                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                                       | 25.89                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                                       | 36.25                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                                       | 41.42                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                                       | 51.78                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 56.96                  |                      |
| 23 31 13 16-0056 | EA  |     | 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee ..... | 162.43                 | 55.23                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 20.71                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 55.22                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>  | -3.38                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 3.36                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 6.71                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 10.09                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 13.40                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 16.45                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                        | 18.03                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 41.42                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                                       | 13.81                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                                       | 27.61                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                                       | 34.52                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                                       | 48.32                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                                       | 55.22                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                                       | 69.03                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 75.93                  |                      |
| 23 31 13 16-0057 | EA  |     | 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee ..... | 231.42                 | 82.84                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 31.06                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 82.82                  |                      |
|                  |     |     | <i>For 28 Gauge, Deduct</i>  | -3.38                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 3.36                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 6.71                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 10.09                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 13.40                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 16.45                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                        | 18.03                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 62.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                                       | 20.71                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                                       | 41.41                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                                       | 51.76                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                                       | 72.47                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                                       | 82.82                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                                       | 103.53                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 113.88                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0058 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....      | 310.90                    | 105.54                  |
| For Seal Class B, Add   | 39.67                     |                         |
| For Seal Class A, Add   | 105.79                    |                         |
| For 28 Gauge, Deduct  | -6.43                     |                         |
| For 24 Gauge, Add   | 6.41                      |                         |
| For 22 Gauge, Add   | 12.79                     |                         |
| For 20 Gauge, Add   | 19.22                     |                         |
| For 18 Gauge, Add   | 25.53                     |                         |
| For 16 Gauge, Add   | 31.33                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 34.35                     |                         |
| For Work In Restricted Working Space, Add   | 79.34                     |                         |
| For Elevated Installation >10' To 15', Add  | 26.45                     |                         |
| For Elevated Installation >15' To 20', Add  | 52.90                     |                         |
| For Elevated Installation >20' To 25', Add  | 66.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 92.57                     |                         |
| For Elevated Installation >30' To 35', Add  | 105.79                    |                         |
| For Elevated Installation >35' To 40', Add  | 132.24                    |                         |
| For Elevated Installation >40', Add   | 145.46                    |                         |
| 23 31 13 16-0059 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....      | 398.65                    | 133.76                  |
| For Seal Class B, Add   | 50.02                     |                         |
| For Seal Class A, Add   | 133.39                    |                         |
| For 28 Gauge, Deduct  | -9.03                     |                         |
| For 24 Gauge, Add   | 8.99                      |                         |
| For 22 Gauge, Add   | 17.95                     |                         |
| For 20 Gauge, Add   | 26.98                     |                         |
| For 18 Gauge, Add   | 35.84                     |                         |
| For 16 Gauge, Add   | 43.99                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 48.23                     |                         |
| For Work In Restricted Working Space, Add   | 100.04                    |                         |
| For Elevated Installation >10' To 15', Add  | 33.35                     |                         |
| For Elevated Installation >15' To 20', Add  | 66.70                     |                         |
| For Elevated Installation >20' To 25', Add  | 83.37                     |                         |
| For Elevated Installation >25' To 30', Add  | 116.72                    |                         |
| For Elevated Installation >30' To 35', Add  | 133.39                    |                         |
| For Elevated Installation >35' To 40', Add  | 166.74                    |                         |
| For Elevated Installation >40', Add   | 183.41                    |                         |
| 23 31 13 16-0060 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....      | 455.80                    | 148.79                  |
| For Seal Class B, Add   | 55.92                     |                         |
| For Seal Class A, Add   | 149.11                    |                         |
| For 28 Gauge, Deduct  | -11.50                    |                         |
| For 24 Gauge, Add   | 11.46                     |                         |
| For 22 Gauge, Add   | 22.87                     |                         |
| For 20 Gauge, Add   | 34.37                     |                         |
| For 18 Gauge, Add   | 45.67                     |                         |
| For 16 Gauge, Add   | 56.05                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 61.44                     |                         |
| For Work In Restricted Working Space, Add   | 111.83                    |                         |
| For Elevated Installation >10' To 15', Add  | 37.28                     |                         |
| For Elevated Installation >15' To 20', Add  | 74.55                     |                         |
| For Elevated Installation >20' To 25', Add  | 93.19                     |                         |
| For Elevated Installation >25' To 30', Add  | 130.47                    |                         |
| For Elevated Installation >30' To 35', Add  | 149.11                    |                         |
| For Elevated Installation >35' To 40', Add  | 186.39                    |                         |
| For Elevated Installation >40', Add   | 205.02                    |                         |
| 23 31 13 16-0061 EA 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....      | 477.16                    | 154.16                  |
| For Seal Class B, Add   | 57.75                     |                         |
| For Seal Class A, Add   | 154.01                    |                         |
| For 28 Gauge, Deduct  | -12.76                    |                         |
| For 24 Gauge, Add   | 12.71                     |                         |
| For 22 Gauge, Add   | 25.38                     |                         |
| For 20 Gauge, Add   | 38.14                     |                         |
| For 18 Gauge, Add   | 50.67                     |                         |
| For 16 Gauge, Add   | 62.19                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 68.18                     |                         |
| For Work In Restricted Working Space, Add   | 115.51                    |                         |
| For Elevated Installation >10' To 15', Add  | 38.50                     |                         |
| For Elevated Installation >15' To 20', Add  | 77.01                     |                         |
| For Elevated Installation >20' To 25', Add  | 96.26                     |                         |
| For Elevated Installation >25' To 30', Add  | 134.76                    |                         |
| For Elevated Installation >30' To 35', Add  | 154.01                    |                         |
| For Elevated Installation >35' To 40', Add  | 192.52                    |                         |
| For Elevated Installation >40', Add   | 211.77                    |                         |
| <b>23 31 13 16-0062 Galvanized Sheet Metal Round And Flat-Oval Connectors</b> <small>(23 31 13 16-0001)</small>     |                           |                         |
| 23 31 13 16-0063 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector ..... | 26.93                     |                         |
| For Seal Class B, Add   | 3.68                      |                         |
| For Seal Class A, Add   | 9.82                      |                         |
| For Work In Restricted Working Space, Add   | 7.36                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.45                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.91                      |                         |
| For Elevated Installation >20' To 25', Add  | 6.14                      |                         |
| For Elevated Installation >25' To 30', Add  | 8.59                      |                         |
| For Elevated Installation >30' To 35', Add  | 9.82                      |                         |
| For Elevated Installation >35' To 40', Add  | 12.27                     |                         |
| For Elevated Installation >40', Add   | 13.50                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 31 13 16-0064 | EA  |     | 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....  | 28.36                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 3.87                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 10.32                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 7.74                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.58                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.16                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.45                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.03                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.32                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 12.90                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 14.18                  |                      |
| 23 31 13 16-0065 | EA  |     | 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....  | 30.38                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 4.14                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 11.04                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 8.28                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.76                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.52                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.90                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.66                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 11.04                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.81                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.19                  |                      |
| 23 31 13 16-0066 | EA  |     | 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....  | 32.31                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 4.37                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 11.66                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 8.75                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.92                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.83                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.29                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.20                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 11.66                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 14.58                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 16.03                  |                      |
| 23 31 13 16-0067 | EA  |     | 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....  | 35.02                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 4.72                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 12.58                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 9.44                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.15                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.29                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.86                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 11.01                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.58                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 15.73                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 17.30                  |                      |
| 23 31 13 16-0068 | EA  |     | 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector..... | 40.75                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 5.27                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 14.05                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 10.54                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.78                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.05                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.32                  |                      |
| 23 31 13 16-0069 | EA  |     | 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector..... | 55.87                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 7.36                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 19.64                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 14.73                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.91                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.82                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 12.27                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 17.18                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 19.64                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 24.55                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 27.00                  |                      |
| 23 31 13 16-0070 | EA  |     | 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector..... | 63.75                  |                      |
|                  |     |     | <i>For Seal Class B, Add</i>  | 8.38                   |                      |
|                  |     |     | <i>For Seal Class A, Add</i>  | 22.34                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.76                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.59                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.17                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.97                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.55                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.34                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 27.93                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 30.72                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0071 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector..... | 70.06                     |                         |
| For Seal Class B, Add   | 9.18                      |                         |
| For Seal Class A, Add   | 24.49                     |                         |
| For Work In Restricted Working Space, Add   | 18.37                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.12                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.24                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.31                     |                         |
| For Elevated Installation >25' To 30', Add  | 21.43                     |                         |
| For Elevated Installation >30' To 35', Add  | 24.49                     |                         |
| For Elevated Installation >35' To 40', Add  | 30.61                     |                         |
| For Elevated Installation >40', Add   | 33.67                     |                         |
| 23 31 13 16-0072 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector..... | 76.14                     |                         |
| For Seal Class B, Add   | 9.94                      |                         |
| For Seal Class A, Add   | 26.51                     |                         |
| For Work In Restricted Working Space, Add   | 19.88                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.63                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.25                     |                         |
| For Elevated Installation >20' To 25', Add  | 16.57                     |                         |
| For Elevated Installation >25' To 30', Add  | 23.19                     |                         |
| For Elevated Installation >30' To 35', Add  | 26.51                     |                         |
| For Elevated Installation >35' To 40', Add  | 33.14                     |                         |
| For Elevated Installation >40', Add   | 36.45                     |                         |
| 23 31 13 16-0073 EA 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector..... | 82.96                     |                         |
| For Seal Class B, Add   | 10.84                     |                         |
| For Seal Class A, Add   | 28.90                     |                         |
| For Work In Restricted Working Space, Add   | 21.68                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.23                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.45                     |                         |
| For Elevated Installation >20' To 25', Add  | 18.06                     |                         |
| For Elevated Installation >25' To 30', Add  | 25.29                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.90                     |                         |
| For Elevated Installation >35' To 40', Add  | 36.13                     |                         |
| For Elevated Installation >40', Add   | 39.74                     |                         |
| <b>23 31 13 16-0074 Slip Joint, Galvanized, Spiral Duct And Fittings (23 31 13 16)</b>                              |                           |                         |
| <b>23 31 13 16-0075 Slip Joint, Galvanized, Spiral Duct (23 31 13 16-0074)</b>                                      |                           |                         |
| 23 31 13 16-0076 LF 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....                   | 12.46                     | 1.42                    |
| For Seal Class B, Add   | 1.14                      |                         |
| For Seal Class A, Add   | 3.03                      |                         |
| For Up To 20', Add  | 1.46                      |                         |
| For >20' To 50', Add  | 0.59                      |                         |
| For >200' To 500', Deduct   | -0.37                     |                         |
| For >500', Deduct   | -0.61                     |                         |
| For 24 Gauge, Add   | 0.98                      |                         |
| For 22 Gauge, Add   | 2.24                      |                         |
| For 20 Gauge, Add   | 3.66                      |                         |
| For 18 Gauge, Add   | 5.61                      |                         |
| For 16 Gauge, Add   | 6.83                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 3.61                      |                         |
| For Work In Restricted Working Space, Add   | 2.27                      |                         |
| 23 31 13 16-0077 LF 6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....                   | 16.15                     | 2.83                    |
| For Seal Class B, Add   | 1.36                      |                         |
| For Seal Class A, Add   | 3.64                      |                         |
| For Up To 20', Add  | 2.12                      |                         |
| For >20' To 50', Add  | 0.85                      |                         |
| For >200' To 500', Deduct   | -0.53                     |                         |
| For >500', Deduct   | -0.88                     |                         |
| For 24 Gauge, Add   | 1.41                      |                         |
| For 22 Gauge, Add   | 3.25                      |                         |
| For 20 Gauge, Add   | 5.30                      |                         |
| For 18 Gauge, Add   | 8.12                      |                         |
| For 16 Gauge, Add   | 9.88                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 5.22                      |                         |
| For Work In Restricted Working Space, Add   | 2.73                      |                         |
| 23 31 13 16-0078 LF 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....                   | 20.57                     | 2.83                    |
| For Seal Class B, Add   | 1.69                      |                         |
| For Seal Class A, Add   | 4.51                      |                         |
| For Up To 20', Add  | 2.79                      |                         |
| For >20' To 50', Add  | 1.11                      |                         |
| For >200' To 500', Deduct   | -0.70                     |                         |
| For >500', Deduct   | -1.16                     |                         |
| For 24 Gauge, Add   | 1.86                      |                         |
| For 22 Gauge, Add   | 4.27                      |                         |
| For 20 Gauge, Add   | 6.97                      |                         |
| For 18 Gauge, Add   | 10.68                     |                         |
| For 16 Gauge, Add   | 13.01                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 6.87                      |                         |
| For Work In Restricted Working Space, Add   | 3.38                      |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR            |   | TOTAL DIRECT | DEMOLITION |
|------------------|---|--------------|------------|
| CSI              | UOM DESCRIPTION   | UNIT COST    | UNIT COST  |
| 23 31 13 16-0079 | LF 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct..... | 25.02        | 2.83       |
|                  | For Seal Class B, Add   | 2.03         |            |
|                  | For Seal Class A, Add   | 5.42         |            |
|                  | For Up To 20', Add  | 3.44         |            |
|                  | For >20' To 50', Add  | 1.38         |            |
|                  | For >200' To 500', Deduct   | -0.86        |            |
|                  | For >500', Deduct   | -1.43        |            |
|                  | For 24 Gauge, Add   | 2.29         |            |
|                  | For 22 Gauge, Add   | 5.28         |            |
|                  | For 20 Gauge, Add   | 8.60         |            |
|                  | For 18 Gauge, Add   | 13.19        |            |
|                  | For 16 Gauge, Add   | 16.06        |            |
|                  | For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add                      | 8.49         |            |
|                  | For Work In Restricted Working Space, Add   | 4.07         |            |
| 23 31 13 16-0080 | LF 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct..... | 31.08        | 4.24       |
|                  | For Seal Class B, Add   | 2.55         |            |
|                  | For Seal Class A, Add   | 6.79         |            |
|                  | For Up To 20', Add  | 4.23         |            |
|                  | For >20' To 50', Add  | 1.69         |            |
|                  | For >200' To 500', Deduct   | -1.06        |            |
|                  | For >500', Deduct   | -1.76        |            |
|                  | For 24 Gauge, Add   | 2.82         |            |
|                  | For 22 Gauge, Add   | 6.49         |            |
|                  | For 20 Gauge, Add   | 10.58        |            |
|                  | For 18 Gauge, Add   | 16.23        |            |
|                  | For 16 Gauge, Add   | 19.75        |            |
|                  | For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add                      | 10.44        |            |
|                  | For Work In Restricted Working Space, Add   | 5.09         |            |
| 23 31 13 16-0081 | LF 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct..... | 37.56        | 4.24       |
|                  | For Seal Class B, Add   | 3.18         |            |
|                  | For Seal Class A, Add   | 8.48         |            |
|                  | For Up To 20', Add  | 4.91         |            |
|                  | For >20' To 50', Add  | 1.96         |            |
|                  | For >200' To 500', Deduct   | -1.23        |            |
|                  | For >500', Deduct   | -2.04        |            |
|                  | For 24 Gauge, Add   | 3.27         |            |
|                  | For 22 Gauge, Add   | 7.52         |            |
|                  | For 20 Gauge, Add   | 12.26        |            |
|                  | For 18 Gauge, Add   | 18.80        |            |
|                  | For 16 Gauge, Add   | 22.89        |            |
|                  | For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add                      | 12.10        |            |
|                  | For Work In Restricted Working Space, Add   | 6.36         |            |
| 23 31 13 16-0082 | LF 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct..... | 52.00        | 4.24       |
|                  | For Seal Class B, Add   | 4.24         |            |
|                  | For Seal Class A, Add   | 11.30        |            |
|                  | For Up To 20', Add  | 7.13         |            |
|                  | For >20' To 50', Add  | 2.85         |            |
|                  | For >200' To 500', Deduct   | -1.78        |            |
|                  | For >500', Deduct   | -2.97        |            |
|                  | For 24 Gauge, Add   | 4.75         |            |
|                  | For 22 Gauge, Add   | 10.93        |            |
|                  | For 20 Gauge, Add   | 17.81        |            |
|                  | For 18 Gauge, Add   | 27.31        |            |
|                  | For 16 Gauge, Add   | 33.25        |            |
|                  | For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add                      | 17.58        |            |
|                  | For Work In Restricted Working Space, Add   | 8.48         |            |
| 23 31 13 16-0083 | LF 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct..... | 59.26        | 5.65       |
|                  | For Seal Class B, Add   | 4.94         |            |
|                  | For Seal Class A, Add   | 13.17        |            |
|                  | For Up To 20', Add  | 7.90         |            |
|                  | For >20' To 50', Add  | 3.16         |            |
|                  | For >200' To 500', Deduct   | -1.97        |            |
|                  | For >500', Deduct   | -3.29        |            |
|                  | For 24 Gauge, Add   | 5.27         |            |
|                  | For 22 Gauge, Add   | 12.11        |            |
|                  | For 20 Gauge, Add   | 19.75        |            |
|                  | For 18 Gauge, Add   | 30.28        |            |
|                  | For 16 Gauge, Add   | 36.86        |            |
|                  | For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add                      | 19.48        |            |
|                  | For Work In Restricted Working Space, Add   | 9.88         |            |
| 23 31 13 16-0084 | LF 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct..... | 66.76        | 5.65       |
|                  | For Seal Class B, Add   | 5.61         |            |
|                  | For Seal Class A, Add   | 14.96        |            |
|                  | For Up To 20', Add  | 8.81         |            |
|                  | For >20' To 50', Add  | 3.52         |            |
|                  | For >200' To 500', Deduct   | -2.20        |            |
|                  | For >500', Deduct   | -3.67        |            |
|                  | For 24 Gauge, Add   | 5.87         |            |
|                  | For 22 Gauge, Add   | 13.51        |            |
|                  | For 20 Gauge, Add   | 22.03        |            |
|                  | For 18 Gauge, Add   | 33.78        |            |
|                  | For 16 Gauge, Add   | 41.12        |            |
|                  | For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add                      | 21.73        |            |
|                  | For Work In Restricted Working Space, Add   | 11.22        |            |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0085 LF 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....                  | 74.58                     | 7.07                    |
| For Seal Class B, Add   | 6.32                      |                         |
| For Seal Class A, Add   | 16.84                     |                         |
| For Up To 20', Add  | 9.74                      |                         |
| For >20' To 50', Add  | 3.90                      |                         |
| For >200' To 500', Deduct   | -2.44                     |                         |
| For >500', Deduct   | -4.06                     |                         |
| For 24 Gauge, Add   | 6.49                      |                         |
| For 22 Gauge, Add   | 14.94                     |                         |
| For 20 Gauge, Add   | 24.35                     |                         |
| For 18 Gauge, Add   | 37.34                     |                         |
| For 16 Gauge, Add   | 45.46                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 24.03                     |                         |
| For Work In Restricted Working Space, Add   | 12.63                     |                         |
| 23 31 13 16-0086 LF 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....                  | 82.41                     | 8.49                    |
| For Seal Class B, Add   | 7.07                      |                         |
| For Seal Class A, Add   | 18.85                     |                         |
| For Up To 20', Add  | 10.58                     |                         |
| For >20' To 50', Add  | 4.23                      |                         |
| For >200' To 500', Deduct   | -2.65                     |                         |
| For >500', Deduct   | -4.41                     |                         |
| For 24 Gauge, Add   | 7.06                      |                         |
| For 22 Gauge, Add   | 16.23                     |                         |
| For 20 Gauge, Add   | 26.46                     |                         |
| For 18 Gauge, Add   | 40.57                     |                         |
| For 16 Gauge, Add   | 49.39                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 26.11                     |                         |
| For Work In Restricted Working Space, Add   | 14.14                     |                         |
| <b>23 31 13 16-0087 Slip Joint, Galvanized, Spiral 90 Degree Elbows (23 31 13 16-0074)</b>                          |                           |                         |
| 23 31 13 16-0088 EA 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow .....  | 89.47                     | 19.80                   |
| For Seal Class B, Add   | 11.47                     |                         |
| For Seal Class A, Add   | 30.58                     |                         |
| For 24 Gauge, Add   | 2.60                      |                         |
| For 22 Gauge, Add   | 5.99                      |                         |
| For 20 Gauge, Add   | 9.77                      |                         |
| For 18 Gauge, Add   | 14.97                     |                         |
| For 16 Gauge, Add   | 18.23                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 9.63                      |                         |
| For Work In Restricted Working Space, Add   | 22.94                     |                         |
| 23 31 13 16-0089 EA 6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow .....  | 131.62                    | 28.28                   |
| For Seal Class B, Add   | 16.97                     |                         |
| For Seal Class A, Add   | 45.25                     |                         |
| For 24 Gauge, Add   | 3.70                      |                         |
| For 22 Gauge, Add   | 8.51                      |                         |
| For 20 Gauge, Add   | 13.87                     |                         |
| For 18 Gauge, Add   | 21.26                     |                         |
| For 16 Gauge, Add   | 25.89                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 13.68                     |                         |
| For Work In Restricted Working Space, Add   | 33.94                     |                         |
| 23 31 13 16-0090 EA 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow .....  | 184.12                    | 36.77                   |
| For Seal Class B, Add   | 22.33                     |                         |
| For Seal Class A, Add   | 59.54                     |                         |
| For 24 Gauge, Add   | 7.05                      |                         |
| For 22 Gauge, Add   | 16.22                     |                         |
| For 20 Gauge, Add   | 26.45                     |                         |
| For 18 Gauge, Add   | 40.55                     |                         |
| For 16 Gauge, Add   | 49.36                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 26.09                     |                         |
| For Work In Restricted Working Space, Add   | 44.66                     |                         |
| 23 31 13 16-0091 EA 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow ..... | 230.06                    | 46.67                   |
| For Seal Class B, Add   | 28.28                     |                         |
| For Seal Class A, Add   | 75.42                     |                         |
| For 24 Gauge, Add   | 8.30                      |                         |
| For 22 Gauge, Add   | 19.09                     |                         |
| For 20 Gauge, Add   | 31.13                     |                         |
| For 18 Gauge, Add   | 47.74                     |                         |
| For 16 Gauge, Add   | 58.11                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 30.72                     |                         |
| For Work In Restricted Working Space, Add   | 56.57                     |                         |
| 23 31 13 16-0092 EA 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow ..... | 284.43                    | 59.40                   |
| For Seal Class B, Add   | 35.35                     |                         |
| For Seal Class A, Add   | 94.28                     |                         |
| For 24 Gauge, Add   | 9.75                      |                         |
| For 22 Gauge, Add   | 22.42                     |                         |
| For 20 Gauge, Add   | 36.56                     |                         |
| For 18 Gauge, Add   | 56.05                     |                         |
| For 16 Gauge, Add   | 68.24                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 36.07                     |                         |
| For Work In Restricted Working Space, Add   | 70.71                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 13 16-0093 EA 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow..... | 311.37                    | 65.05                   |
| For Seal Class B, Add  | 38.57                     |                         |
| For Seal Class A, Add  | 102.84                    |                         |
| For 24 Gauge, Add  | 10.85                     |                         |
| For 22 Gauge, Add  | 24.96                     |                         |
| For 20 Gauge, Add  | 40.70                     |                         |
| For 18 Gauge, Add  | 62.40                     |                         |
| For 16 Gauge, Add  | 75.96                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 40.15                     |                         |
| For Work In Restricted Working Space, Add  | 77.13                     |                         |
| 23 31 13 16-0094 EA 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow..... | 367.62                    | 76.36                   |
| For Seal Class B, Add  | 45.62                     |                         |
| For Seal Class A, Add  | 121.65                    |                         |
| For 24 Gauge, Add  | 12.70                     |                         |
| For 22 Gauge, Add  | 29.21                     |                         |
| For 20 Gauge, Add  | 47.63                     |                         |
| For 18 Gauge, Add  | 73.03                     |                         |
| For 16 Gauge, Add  | 88.90                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 46.99                     |                         |
| For Work In Restricted Working Space, Add  | 91.24                     |                         |
| 23 31 13 16-0095 EA 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow..... | 450.18                    | 94.75                   |
| For Seal Class B, Add  | 56.57                     |                         |
| For Seal Class A, Add  | 150.84                    |                         |
| For 24 Gauge, Add  | 14.61                     |                         |
| For 22 Gauge, Add  | 33.61                     |                         |
| For 20 Gauge, Add  | 54.80                     |                         |
| For 18 Gauge, Add  | 84.03                     |                         |
| For 16 Gauge, Add  | 102.30                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 54.07                     |                         |
| For Work In Restricted Working Space, Add  | 113.13                    |                         |
| 23 31 13 16-0096 EA 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow..... | 542.43                    | 114.54                  |
| For Seal Class B, Add  | 68.43                     |                         |
| For Seal Class A, Add  | 182.47                    |                         |
| For 24 Gauge, Add  | 17.25                     |                         |
| For 22 Gauge, Add  | 39.68                     |                         |
| For 20 Gauge, Add  | 64.69                     |                         |
| For 18 Gauge, Add  | 99.19                     |                         |
| For 16 Gauge, Add  | 120.75                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 63.83                     |                         |
| For Work In Restricted Working Space, Add  | 136.85                    |                         |
| 23 31 13 16-0097 EA 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow..... | 631.53                    | 132.93                  |
| For Seal Class B, Add  | 80.05                     |                         |
| For Seal Class A, Add  | 213.46                    |                         |
| For 24 Gauge, Add  | 19.58                     |                         |
| For 22 Gauge, Add  | 45.03                     |                         |
| For 20 Gauge, Add  | 73.42                     |                         |
| For 18 Gauge, Add  | 112.57                    |                         |
| For 16 Gauge, Add  | 137.05                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 72.44                     |                         |
| For Work In Restricted Working Space, Add  | 160.09                    |                         |
| 23 31 13 16-0098 EA 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow..... | 722.58                    | 151.31                  |
| For Seal Class B, Add  | 90.27                     |                         |
| For Seal Class A, Add  | 240.71                    |                         |
| For 24 Gauge, Add  | 24.16                     |                         |
| For 22 Gauge, Add  | 55.57                     |                         |
| For 20 Gauge, Add  | 90.61                     |                         |
| For 18 Gauge, Add  | 138.93                    |                         |
| For 16 Gauge, Add  | 169.13                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 89.40                     |                         |
| For Work In Restricted Working Space, Add  | 180.53                    |                         |
| <b>23 31 13 16-0099 Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows</b> (23 31 13 16-0074)                    |                           |                         |
| 23 31 13 16-0100 EA 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....  | 90.08                     | 19.80                   |
| For Seal Class B, Add  | 11.47                     |                         |
| For Seal Class A, Add  | 30.58                     |                         |
| For 24 Gauge, Add  | 2.73                      |                         |
| For 22 Gauge, Add  | 6.27                      |                         |
| For 20 Gauge, Add  | 10.22                     |                         |
| For 18 Gauge, Add  | 15.67                     |                         |
| For 16 Gauge, Add  | 19.08                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 10.09                     |                         |
| For Work In Restricted Working Space, Add  | 22.94                     |                         |
| 23 31 13 16-0101 EA 6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....  | 128.45                    | 28.28                   |
| For Seal Class B, Add  | 16.97                     |                         |
| For Seal Class A, Add  | 45.25                     |                         |
| For 24 Gauge, Add  | 3.06                      |                         |
| For 22 Gauge, Add  | 7.05                      |                         |
| For 20 Gauge, Add  | 11.49                     |                         |
| For 18 Gauge, Add  | 17.62                     |                         |
| For 16 Gauge, Add  | 21.45                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add   | 11.34                     |                         |
| For Work In Restricted Working Space, Add  | 33.94                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0102 EA 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....  | 169.40                    | 36.77                   |
| For Seal Class B, Add   | 22.33                     |                         |
| For Seal Class A, Add   | 59.54                     |                         |
| For 24 Gauge, Add   | 4.11                      |                         |
| For 22 Gauge, Add   | 9.45                      |                         |
| For 20 Gauge, Add   | 15.41                     |                         |
| For 18 Gauge, Add   | 23.62                     |                         |
| For 16 Gauge, Add   | 28.76                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 15.20                     |                         |
| For Work In Restricted Working Space, Add   | 44.66                     |                         |
| 23 31 13 16-0103 EA 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 214.22                    | 46.67                   |
| For Seal Class B, Add   | 28.28                     |                         |
| For Seal Class A, Add   | 75.42                     |                         |
| For 24 Gauge, Add   | 5.13                      |                         |
| For 22 Gauge, Add   | 11.81                     |                         |
| For 20 Gauge, Add   | 19.25                     |                         |
| For 18 Gauge, Add   | 29.52                     |                         |
| For 16 Gauge, Add   | 35.94                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 19.00                     |                         |
| For Work In Restricted Working Space, Add   | 56.57                     |                         |
| 23 31 13 16-0104 EA 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 265.52                    | 59.40                   |
| For Seal Class B, Add   | 35.35                     |                         |
| For Seal Class A, Add   | 94.28                     |                         |
| For 24 Gauge, Add   | 5.97                      |                         |
| For 22 Gauge, Add   | 13.72                     |                         |
| For 20 Gauge, Add   | 22.37                     |                         |
| For 18 Gauge, Add   | 34.30                     |                         |
| For 16 Gauge, Add   | 41.76                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 22.07                     |                         |
| For Work In Restricted Working Space, Add   | 70.71                     |                         |
| 23 31 13 16-0105 EA 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 290.27                    | 65.05                   |
| For Seal Class B, Add   | 38.57                     |                         |
| For Seal Class A, Add   | 102.84                    |                         |
| For 24 Gauge, Add   | 6.63                      |                         |
| For 22 Gauge, Add   | 15.25                     |                         |
| For 20 Gauge, Add   | 24.87                     |                         |
| For 18 Gauge, Add   | 38.13                     |                         |
| For 16 Gauge, Add   | 46.42                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 24.54                     |                         |
| For Work In Restricted Working Space, Add   | 77.13                     |                         |
| 23 31 13 16-0106 EA 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 358.49                    | 76.36                   |
| For Seal Class B, Add   | 45.62                     |                         |
| For Seal Class A, Add   | 121.65                    |                         |
| For 24 Gauge, Add   | 10.87                     |                         |
| For 22 Gauge, Add   | 25.01                     |                         |
| For 20 Gauge, Add   | 40.78                     |                         |
| For 18 Gauge, Add   | 62.53                     |                         |
| For 16 Gauge, Add   | 76.12                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 40.23                     |                         |
| For Work In Restricted Working Space, Add   | 91.24                     |                         |
| 23 31 13 16-0107 EA 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 443.71                    | 94.75                   |
| For Seal Class B, Add   | 56.57                     |                         |
| For Seal Class A, Add   | 150.84                    |                         |
| For 24 Gauge, Add   | 13.32                     |                         |
| For 22 Gauge, Add   | 30.64                     |                         |
| For 20 Gauge, Add   | 49.95                     |                         |
| For 18 Gauge, Add   | 76.59                     |                         |
| For 16 Gauge, Add   | 93.24                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 49.28                     |                         |
| For Work In Restricted Working Space, Add   | 113.13                    |                         |
| 23 31 13 16-0108 EA 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 540.45                    | 114.54                  |
| For Seal Class B, Add   | 68.43                     |                         |
| For Seal Class A, Add   | 182.47                    |                         |
| For 24 Gauge, Add   | 16.85                     |                         |
| For 22 Gauge, Add   | 38.76                     |                         |
| For 20 Gauge, Add   | 63.20                     |                         |
| For 18 Gauge, Add   | 96.91                     |                         |
| For 16 Gauge, Add   | 117.98                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 62.36                     |                         |
| For Work In Restricted Working Space, Add   | 136.85                    |                         |
| 23 31 13 16-0109 EA 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow ..... | 609.08                    | 132.93                  |
| For Seal Class B, Add   | 80.05                     |                         |
| For Seal Class A, Add   | 213.46                    |                         |
| For 24 Gauge, Add   | 15.09                     |                         |
| For 22 Gauge, Add   | 34.70                     |                         |
| For 20 Gauge, Add   | 56.58                     |                         |
| For 18 Gauge, Add   | 86.76                     |                         |
| For 16 Gauge, Add   | 105.62                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 55.83                     |                         |
| For Work In Restricted Working Space, Add   | 160.09                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0110 EA 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....              | 714.58                    | 151.31                  |
| For Seal Class B, Add   | 90.27                     |                         |
| For Seal Class A, Add   | 240.71                    |                         |
| For 24 Gauge, Add   | 22.56                     |                         |
| For 22 Gauge, Add   | 51.89                     |                         |
| For 20 Gauge, Add   | 84.61                     |                         |
| For 18 Gauge, Add   | 129.73                    |                         |
| For 16 Gauge, Add   | 157.93                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 83.48                     |                         |
| For Work In Restricted Working Space, Add   | 180.53                    |                         |
| <b>23 31 13 16-0111 Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals (23 31 13 16-0074)</b>                      |                           |                         |
| 23 31 13 16-0112 EA 6" x 6" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....   | 178.16                    | 36.77                   |
| For Seal Class B, Add   | 22.33                     |                         |
| For Seal Class A, Add   | 59.54                     |                         |
| For 24 Gauge, Add   | 5.86                      |                         |
| For 22 Gauge, Add   | 13.48                     |                         |
| For 20 Gauge, Add   | 21.98                     |                         |
| For 18 Gauge, Add   | 33.70                     |                         |
| For 16 Gauge, Add   | 41.02                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 21.68                     |                         |
| For Work In Restricted Working Space, Add   | 44.66                     |                         |
| 23 31 13 16-0113 EA 8" x 8" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....   | 266.41                    | 59.40                   |
| For Seal Class B, Add   | 35.35                     |                         |
| For Seal Class A, Add   | 94.28                     |                         |
| For 24 Gauge, Add   | 6.14                      |                         |
| For 22 Gauge, Add   | 14.13                     |                         |
| For 20 Gauge, Add   | 23.04                     |                         |
| For 18 Gauge, Add   | 35.33                     |                         |
| For 16 Gauge, Add   | 43.01                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 22.73                     |                         |
| For Work In Restricted Working Space, Add   | 70.71                     |                         |
| 23 31 13 16-0114 EA 10" x 10" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 337.85                    | 76.36                   |
| For Seal Class B, Add   | 45.62                     |                         |
| For Seal Class A, Add   | 121.65                    |                         |
| For 24 Gauge, Add   | 6.75                      |                         |
| For 22 Gauge, Add   | 15.52                     |                         |
| For 20 Gauge, Add   | 25.30                     |                         |
| For 18 Gauge, Add   | 38.79                     |                         |
| For 16 Gauge, Add   | 47.22                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 24.96                     |                         |
| For Work In Restricted Working Space, Add   | 91.24                     |                         |
| 23 31 13 16-0115 EA 12" x 12" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 412.34                    | 94.75                   |
| For Seal Class B, Add   | 56.57                     |                         |
| For Seal Class A, Add   | 150.84                    |                         |
| For 24 Gauge, Add   | 7.05                      |                         |
| For 22 Gauge, Add   | 16.21                     |                         |
| For 20 Gauge, Add   | 26.42                     |                         |
| For 18 Gauge, Add   | 40.51                     |                         |
| For 16 Gauge, Add   | 49.32                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 26.07                     |                         |
| For Work In Restricted Working Space, Add   | 113.13                    |                         |
| 23 31 13 16-0116 EA 14" x 14" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 492.57                    | 114.54                  |
| For Seal Class B, Add   | 68.43                     |                         |
| For Seal Class A, Add   | 182.47                    |                         |
| For 24 Gauge, Add   | 7.28                      |                         |
| For 22 Gauge, Add   | 16.74                     |                         |
| For 20 Gauge, Add   | 27.29                     |                         |
| For 18 Gauge, Add   | 41.85                     |                         |
| For 16 Gauge, Add   | 50.95                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 26.93                     |                         |
| For Work In Restricted Working Space, Add   | 136.85                    |                         |
| 23 31 13 16-0117 EA 16" x 16" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 573.21                    | 132.93                  |
| For Seal Class B, Add   | 80.05                     |                         |
| For Seal Class A, Add   | 213.46                    |                         |
| For 24 Gauge, Add   | 7.91                      |                         |
| For 22 Gauge, Add   | 18.20                     |                         |
| For 20 Gauge, Add   | 29.68                     |                         |
| For 18 Gauge, Add   | 45.51                     |                         |
| For 16 Gauge, Add   | 55.40                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 29.28                     |                         |
| For Work In Restricted Working Space, Add   | 160.09                    |                         |
| 23 31 13 16-0118 EA 18" x 18" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 642.94                    | 151.31                  |
| For Seal Class B, Add   | 90.27                     |                         |
| For Seal Class A, Add   | 240.71                    |                         |
| For 24 Gauge, Add   | 8.23                      |                         |
| For 22 Gauge, Add   | 18.94                     |                         |
| For 20 Gauge, Add   | 30.88                     |                         |
| For 18 Gauge, Add   | 47.35                     |                         |
| For 16 Gauge, Add   | 57.64                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 30.47                     |                         |
| For Work In Restricted Working Space, Add   | 180.53                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0119 EA 20" x 20" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 732.50                    | 172.52                  |
| For Seal Class B, Add   | 103.47                    |                         |
| For Seal Class A, Add   | 275.93                    |                         |
| For 24 Gauge, Add   | 8.53                      |                         |
| For 22 Gauge, Add   | 19.63                     |                         |
| For 20 Gauge, Add   | 32.00                     |                         |
| For 18 Gauge, Add   | 49.07                     |                         |
| For 16 Gauge, Add   | 59.74                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 31.58                     |                         |
| For Work In Restricted Working Space, Add   | 206.95                    |                         |
| 23 31 13 16-0120 EA 22" x 22" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 815.75                    | 190.91                  |
| For Seal Class B, Add   | 114.66                    |                         |
| For Seal Class A, Add   | 305.76                    |                         |
| For 24 Gauge, Add   | 10.27                     |                         |
| For 22 Gauge, Add   | 23.62                     |                         |
| For 20 Gauge, Add   | 38.51                     |                         |
| For 18 Gauge, Add   | 59.05                     |                         |
| For 16 Gauge, Add   | 71.89                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 38.00                     |                         |
| For Work In Restricted Working Space, Add   | 229.32                    |                         |
| 23 31 13 16-0121 EA 24" x 24" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 884.89                    | 207.88                  |
| For Seal Class B, Add   | 124.78                    |                         |
| For Seal Class A, Add   | 332.74                    |                         |
| For 24 Gauge, Add   | 10.61                     |                         |
| For 22 Gauge, Add   | 24.39                     |                         |
| For 20 Gauge, Add   | 39.77                     |                         |
| For 18 Gauge, Add   | 60.98                     |                         |
| For 16 Gauge, Add   | 74.24                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 39.24                     |                         |
| For Work In Restricted Working Space, Add   | 249.56                    |                         |
| 23 31 13 16-0122 EA 8" x 8" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....   | 282.18                    | 64.06                   |
| For Seal Class B, Add   | 38.46                     |                         |
| For Seal Class A, Add   | 102.55                    |                         |
| For 24 Gauge, Add   | 5.16                      |                         |
| For 22 Gauge, Add   | 11.87                     |                         |
| For 20 Gauge, Add   | 19.36                     |                         |
| For 18 Gauge, Add   | 29.68                     |                         |
| For 16 Gauge, Add   | 36.13                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 19.10                     |                         |
| For Work In Restricted Working Space, Add   | 76.91                     |                         |
| 23 31 13 16-0123 EA 10" x 10" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 340.81                    | 77.07                   |
| For Seal Class B, Add   | 46.23                     |                         |
| For Seal Class A, Add   | 123.29                    |                         |
| For 24 Gauge, Add   | 6.52                      |                         |
| For 22 Gauge, Add   | 14.99                     |                         |
| For 20 Gauge, Add   | 24.44                     |                         |
| For 18 Gauge, Add   | 37.48                     |                         |
| For 16 Gauge, Add   | 45.63                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 24.12                     |                         |
| For Work In Restricted Working Space, Add   | 92.47                     |                         |
| 23 31 13 16-0124 EA 12" x 12" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 414.07                    | 93.61                   |
| For Seal Class B, Add   | 56.18                     |                         |
| For Seal Class A, Add   | 149.80                    |                         |
| For 24 Gauge, Add   | 7.91                      |                         |
| For 22 Gauge, Add   | 18.20                     |                         |
| For 20 Gauge, Add   | 29.67                     |                         |
| For 18 Gauge, Add   | 45.49                     |                         |
| For 16 Gauge, Add   | 55.38                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 29.27                     |                         |
| For Work In Restricted Working Space, Add   | 112.35                    |                         |
| 23 31 13 16-0125 EA 14" x 14" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 492.92                    | 111.29                  |
| For Seal Class B, Add   | 66.87                     |                         |
| For Seal Class A, Add   | 178.33                    |                         |
| For 24 Gauge, Add   | 9.42                      |                         |
| For 22 Gauge, Add   | 21.67                     |                         |
| For 20 Gauge, Add   | 35.33                     |                         |
| For 18 Gauge, Add   | 54.17                     |                         |
| For 16 Gauge, Add   | 65.94                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 34.85                     |                         |
| For Work In Restricted Working Space, Add   | 133.75                    |                         |
| 23 31 13 16-0126 EA 16" x 16" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 626.67                    | 143.11                  |
| For Seal Class B, Add   | 85.81                     |                         |
| For Seal Class A, Add   | 228.83                    |                         |
| For 24 Gauge, Add   | 10.92                     |                         |
| For 22 Gauge, Add   | 25.12                     |                         |
| For 20 Gauge, Add   | 40.95                     |                         |
| For 18 Gauge, Add   | 62.79                     |                         |
| For 16 Gauge, Add   | 76.44                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 40.40                     |                         |
| For Work In Restricted Working Space, Add   | 171.62                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0127 EA 18" x 18" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 695.89                    | 158.80                  |
| For Seal Class B, Add   | 95.21                     |                         |
| For Seal Class A, Add   | 253.88                    |                         |
| For 24 Gauge, Add   | 12.24                     |                         |
| For 22 Gauge, Add   | 28.14                     |                         |
| For 20 Gauge, Add   | 45.89                     |                         |
| For 18 Gauge, Add   | 70.36                     |                         |
| For 16 Gauge, Add   | 85.65                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 45.27                     |                         |
| For Work In Restricted Working Space, Add   | 190.41                    |                         |
| 23 31 13 16-0128 EA 20" x 20" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 791.15                    | 180.73                  |
| For Seal Class B, Add   | 108.23                    |                         |
| For Seal Class A, Add   | 288.60                    |                         |
| For 24 Gauge, Add   | 13.93                     |                         |
| For 22 Gauge, Add   | 32.03                     |                         |
| For 20 Gauge, Add   | 52.23                     |                         |
| For 18 Gauge, Add   | 80.09                     |                         |
| For 16 Gauge, Add   | 97.50                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 51.53                     |                         |
| For Work In Restricted Working Space, Add   | 216.45                    |                         |
| 23 31 13 16-0129 EA 22" x 22" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 847.85                    | 192.75                  |
| For Seal Class B, Add   | 115.53                    |                         |
| For Seal Class A, Add   | 308.09                    |                         |
| For 24 Gauge, Add   | 15.52                     |                         |
| For 22 Gauge, Add   | 35.71                     |                         |
| For 20 Gauge, Add   | 58.22                     |                         |
| For 18 Gauge, Add   | 89.26                     |                         |
| For 16 Gauge, Add   | 108.67                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 57.44                     |                         |
| For Work In Restricted Working Space, Add   | 231.07                    |                         |
| 23 31 13 16-0130 EA 24" x 24" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 919.90                    | 209.01                  |
| For Seal Class B, Add   | 125.37                    |                         |
| For Seal Class A, Add   | 334.32                    |                         |
| For 24 Gauge, Add   | 16.82                     |                         |
| For 22 Gauge, Add   | 38.69                     |                         |
| For 20 Gauge, Add   | 63.08                     |                         |
| For 18 Gauge, Add   | 96.73                     |                         |
| For 16 Gauge, Add   | 117.75                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 62.24                     |                         |
| For Work In Restricted Working Space, Add   | 250.74                    |                         |
| 23 31 13 16-0131 EA 10" x 10" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 373.28                    | 84.85                   |
| For Seal Class B, Add   | 50.84                     |                         |
| For Seal Class A, Add   | 135.58                    |                         |
| For 24 Gauge, Add   | 6.86                      |                         |
| For 22 Gauge, Add   | 15.79                     |                         |
| For 20 Gauge, Add   | 25.74                     |                         |
| For 18 Gauge, Add   | 39.47                     |                         |
| For 16 Gauge, Add   | 48.05                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 25.40                     |                         |
| For Work In Restricted Working Space, Add   | 101.69                    |                         |
| 23 31 13 16-0132 EA 12" x 12" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 453.67                    | 103.24                  |
| For Seal Class B, Add   | 61.81                     |                         |
| For Seal Class A, Add   | 164.82                    |                         |
| For 24 Gauge, Add   | 8.32                      |                         |
| For 22 Gauge, Add   | 19.15                     |                         |
| For 20 Gauge, Add   | 31.22                     |                         |
| For 18 Gauge, Add   | 47.86                     |                         |
| For 16 Gauge, Add   | 58.27                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 30.80                     |                         |
| For Work In Restricted Working Space, Add   | 123.62                    |                         |
| 23 31 13 16-0133 EA 14" x 14" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 539.94                    | 122.33                  |
| For Seal Class B, Add   | 73.55                     |                         |
| For Seal Class A, Add   | 196.14                    |                         |
| For 24 Gauge, Add   | 9.92                      |                         |
| For 22 Gauge, Add   | 22.82                     |                         |
| For 20 Gauge, Add   | 37.20                     |                         |
| For 18 Gauge, Add   | 57.04                     |                         |
| For 16 Gauge, Add   | 69.44                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 36.70                     |                         |
| For Work In Restricted Working Space, Add   | 147.10                    |                         |
| 23 31 13 16-0134 EA 16" x 16" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 626.78                    | 142.54                  |
| For Seal Class B, Add   | 85.40                     |                         |
| For Seal Class A, Add   | 227.72                    |                         |
| For 24 Gauge, Add   | 11.50                     |                         |
| For 22 Gauge, Add   | 26.44                     |                         |
| For 20 Gauge, Add   | 43.11                     |                         |
| For 18 Gauge, Add   | 66.10                     |                         |
| For 16 Gauge, Add   | 80.47                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 42.54                     |                         |
| For Work In Restricted Working Space, Add   | 170.79                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0135 EA 18" x 18" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 701.42                    | 159.38                  |
| For Seal Class B, Add   | 95.55                     |                         |
| For Seal Class A, Add   | 254.80                    |                         |
| For 24 Gauge, Add   | 12.88                     |                         |
| For 22 Gauge, Add   | 29.63                     |                         |
| For 20 Gauge, Add   | 48.31                     |                         |
| For 18 Gauge, Add   | 74.07                     |                         |
| For 16 Gauge, Add   | 90.17                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 47.66                     |                         |
| For Work In Restricted Working Space, Add   | 191.10                    |                         |
| 23 31 13 16-0136 EA 20" x 20" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 797.76                    | 181.29                  |
| For Seal Class B, Add   | 108.67                    |                         |
| For Seal Class A, Add   | 289.78                    |                         |
| For 24 Gauge, Add   | 14.66                     |                         |
| For 22 Gauge, Add   | 33.72                     |                         |
| For 20 Gauge, Add   | 54.98                     |                         |
| For 18 Gauge, Add   | 84.30                     |                         |
| For 16 Gauge, Add   | 102.62                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 54.24                     |                         |
| For Work In Restricted Working Space, Add   | 217.34                    |                         |
| 23 31 13 16-0137 EA 22" x 22" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 890.72                    | 202.22                  |
| For Seal Class B, Add   | 121.35                    |                         |
| For Seal Class A, Add   | 323.60                    |                         |
| For 24 Gauge, Add   | 16.34                     |                         |
| For 22 Gauge, Add   | 37.59                     |                         |
| For 20 Gauge, Add   | 61.28                     |                         |
| For 18 Gauge, Add   | 93.97                     |                         |
| For 16 Gauge, Add   | 114.39                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 60.47                     |                         |
| For Work In Restricted Working Space, Add   | 242.70                    |                         |
| 23 31 13 16-0138 EA 24" x 24" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral..... | 965.79                    | 219.48                  |
| For Seal Class B, Add   | 131.59                    |                         |
| For Seal Class A, Add   | 350.90                    |                         |
| For 24 Gauge, Add   | 17.71                     |                         |
| For 22 Gauge, Add   | 40.72                     |                         |
| For 20 Gauge, Add   | 66.40                     |                         |
| For 18 Gauge, Add   | 101.81                    |                         |
| For 16 Gauge, Add   | 123.94                    |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 65.51                     |                         |
| For Work In Restricted Working Space, Add   | 263.18                    |                         |
| <b>23 31 13 16-0139 Slip Joint, Galvanized, Spiral Duct Reducers (23 31 13 16-0074)</b>   |                           |                         |
| 23 31 13 16-0140 EA 6" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....                           | 123.66                    | 28.28                   |
| For Seal Class B, Add   | 16.97                     |                         |
| For Seal Class A, Add   | 45.25                     |                         |
| For 24 Gauge, Add   | 2.11                      |                         |
| For 22 Gauge, Add   | 4.84                      |                         |
| For 20 Gauge, Add   | 7.90                      |                         |
| For 18 Gauge, Add   | 12.11                     |                         |
| For 16 Gauge, Add   | 14.74                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 7.79                      |                         |
| For Work In Restricted Working Space, Add   | 33.94                     |                         |
| 23 31 13 16-0141 EA 8" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....                           | 160.46                    | 36.77                   |
| For Seal Class B, Add   | 22.33                     |                         |
| For Seal Class A, Add   | 59.54                     |                         |
| For 24 Gauge, Add   | 2.32                      |                         |
| For 22 Gauge, Add   | 5.34                      |                         |
| For 20 Gauge, Add   | 8.70                      |                         |
| For 18 Gauge, Add   | 13.34                     |                         |
| For 16 Gauge, Add   | 16.24                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 8.58                      |                         |
| For Work In Restricted Working Space, Add   | 44.66                     |                         |
| 23 31 13 16-0142 EA 10" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....                          | 201.39                    | 46.67                   |
| For Seal Class B, Add   | 28.28                     |                         |
| For Seal Class A, Add   | 75.42                     |                         |
| For 24 Gauge, Add   | 2.57                      |                         |
| For 22 Gauge, Add   | 5.91                      |                         |
| For 20 Gauge, Add   | 9.63                      |                         |
| For 18 Gauge, Add   | 14.77                     |                         |
| For 16 Gauge, Add   | 17.98                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 9.50                      |                         |
| For Work In Restricted Working Space, Add   | 56.57                     |                         |
| 23 31 13 16-0143 EA 12" x 10", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....                         | 249.77                    | 59.40                   |
| For Seal Class B, Add   | 35.35                     |                         |
| For Seal Class A, Add   | 94.28                     |                         |
| For 24 Gauge, Add   | 2.82                      |                         |
| For 22 Gauge, Add   | 6.48                      |                         |
| For 20 Gauge, Add   | 10.56                     |                         |
| For 18 Gauge, Add   | 16.19                     |                         |
| For 16 Gauge, Add   | 19.71                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 10.42                     |                         |
| For Work In Restricted Working Space, Add   | 70.71                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 31 13 16-0144 | EA  |     | 14" x 12", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....    | 272.78                 | 65.05                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 38.57                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 102.84                 |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 3.13                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 7.21                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 11.75                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 18.02                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 21.94                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 11.60                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 77.13                  |                      |
| 23 31 13 16-0145 | EA  |     | 16" x 14", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....    | 331.21                 | 76.36                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 45.62                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 121.65                 |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 5.42                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 12.46                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 20.32                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 31.15                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 37.93                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 20.05                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 91.24                  |                      |
| 23 31 13 16-0146 | EA  |     | 18" x 16", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....    | 406.06                 | 94.75                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 56.57                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 150.84                 |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 5.79                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 13.32                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 21.71                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 33.29                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 40.53                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 21.42                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 113.13                 |                      |
| 23 31 13 16-0147 | EA  |     | 20" x 18", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....    | 487.08                 | 114.54               |
|                  |     |     | <i>For Seal Class B, Add</i>   | 68.43                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 182.47                 |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 6.18                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 14.21                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 23.18                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 35.54                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 43.26                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 22.87                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 136.85                 |                      |
| 23 31 13 16-0148 | EA  |     | 22" x 20", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....    | 566.48                 | 132.93               |
|                  |     |     | <i>For Seal Class B, Add</i>   | 80.05                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 213.46                 |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 6.57                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 15.11                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 24.63                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 37.77                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 45.98                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 24.30                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 160.09                 |                      |
| 23 31 13 16-0149 | EA  |     | 24" x 22", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....    | 636.38                 | 151.31               |
|                  |     |     | <i>For Seal Class B, Add</i>   | 90.27                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 240.71                 |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 6.92                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 15.92                  |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 25.96                  |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 39.80                  |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 48.45                  |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 25.61                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 180.53                 |                      |
| 23 31 13 16-0150 |     |     | <b>Slip Joint, Galvanized, Spiral Duct Couplings (23 31 13 16-0074)</b>                |                        |                      |
| 23 31 13 16-0151 | EA  |     | 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 81.43                  | 19.80                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 11.47                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 30.58                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 1.00                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 2.29                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 3.74                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 5.73                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 6.97                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 3.69                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 22.94                  |                      |
| 23 31 13 16-0152 | EA  |     | 6 Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....  | 118.80                 | 28.28                |
|                  |     |     | <i>For Seal Class B, Add</i>   | 16.97                  |                      |
|                  |     |     | <i>For Seal Class A, Add</i>   | 45.25                  |                      |
|                  |     |     | <i>For 24 Gauge, Add</i>   | 1.13                   |                      |
|                  |     |     | <i>For 22 Gauge, Add</i>   | 2.61                   |                      |
|                  |     |     | <i>For 20 Gauge, Add</i>   | 4.25                   |                      |
|                  |     |     | <i>For 18 Gauge, Add</i>   | 6.52                   |                      |
|                  |     |     | <i>For 16 Gauge, Add</i>   | 7.94                   |                      |
|                  |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                    | 4.20                   |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>                                       | 33.94                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0153 EA 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....  | 154.97                    | 36.77                   |
| For Seal Class B, Add   | 22.33                     |                         |
| For Seal Class A, Add   | 59.54                     |                         |
| For 24 Gauge, Add   | 1.22                      |                         |
| For 22 Gauge, Add   | 2.81                      |                         |
| For 20 Gauge, Add   | 4.58                      |                         |
| For 18 Gauge, Add   | 7.03                      |                         |
| For 16 Gauge, Add   | 8.55                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 4.52                      |                         |
| For Work In Restricted Working Space, Add   | 44.66                     |                         |
| 23 31 13 16-0154 EA 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 195.10                    | 46.67                   |
| For Seal Class B, Add   | 28.28                     |                         |
| For Seal Class A, Add   | 75.42                     |                         |
| For 24 Gauge, Add   | 1.31                      |                         |
| For 22 Gauge, Add   | 3.01                      |                         |
| For 20 Gauge, Add   | 4.91                      |                         |
| For 18 Gauge, Add   | 7.53                      |                         |
| For 16 Gauge, Add   | 9.17                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 4.85                      |                         |
| For Work In Restricted Working Space, Add   | 56.57                     |                         |
| 23 31 13 16-0155 EA 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 242.68                    | 59.40                   |
| For Seal Class B, Add   | 35.35                     |                         |
| For Seal Class A, Add   | 94.28                     |                         |
| For 24 Gauge, Add   | 1.40                      |                         |
| For 22 Gauge, Add   | 3.22                      |                         |
| For 20 Gauge, Add   | 5.24                      |                         |
| For 18 Gauge, Add   | 8.04                      |                         |
| For 16 Gauge, Add   | 9.79                      |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 5.17                      |                         |
| For Work In Restricted Working Space, Add   | 70.71                     |                         |
| 23 31 13 16-0156 EA 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 264.55                    | 65.05                   |
| For Seal Class B, Add   | 38.57                     |                         |
| For Seal Class A, Add   | 102.84                    |                         |
| For 24 Gauge, Add   | 1.49                      |                         |
| For 22 Gauge, Add   | 3.42                      |                         |
| For 20 Gauge, Add   | 5.58                      |                         |
| For 18 Gauge, Add   | 8.56                      |                         |
| For 16 Gauge, Add   | 10.42                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 5.51                      |                         |
| For Work In Restricted Working Space, Add   | 77.13                     |                         |
| 23 31 13 16-0157 EA 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 312.35                    | 76.36                   |
| For Seal Class B, Add   | 45.62                     |                         |
| For Seal Class A, Add   | 121.65                    |                         |
| For 24 Gauge, Add   | 1.65                      |                         |
| For 22 Gauge, Add   | 3.79                      |                         |
| For 20 Gauge, Add   | 6.17                      |                         |
| For 18 Gauge, Add   | 9.46                      |                         |
| For 16 Gauge, Add   | 11.52                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 6.09                      |                         |
| For Work In Restricted Working Space, Add   | 91.24                     |                         |
| 23 31 13 16-0158 EA 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 385.79                    | 94.75                   |
| For Seal Class B, Add   | 56.57                     |                         |
| For Seal Class A, Add   | 150.84                    |                         |
| For 24 Gauge, Add   | 1.74                      |                         |
| For 22 Gauge, Add   | 3.99                      |                         |
| For 20 Gauge, Add   | 6.51                      |                         |
| For 18 Gauge, Add   | 9.98                      |                         |
| For 16 Gauge, Add   | 12.15                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 6.42                      |                         |
| For Work In Restricted Working Space, Add   | 113.13                    |                         |
| 23 31 13 16-0159 EA 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 465.39                    | 114.54                  |
| For Seal Class B, Add   | 68.43                     |                         |
| For Seal Class A, Add   | 182.47                    |                         |
| For 24 Gauge, Add   | 1.84                      |                         |
| For 22 Gauge, Add   | 4.24                      |                         |
| For 20 Gauge, Add   | 6.91                      |                         |
| For 18 Gauge, Add   | 10.59                     |                         |
| For 16 Gauge, Add   | 12.89                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 6.82                      |                         |
| For Work In Restricted Working Space, Add   | 136.85                    |                         |
| 23 31 13 16-0160 EA 22 Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....  | 543.20                    | 267.27                  |
| For Seal Class B, Add   | 80.05                     |                         |
| For Seal Class A, Add   | 213.46                    |                         |
| For 24 Gauge, Add   | 1.91                      |                         |
| For 22 Gauge, Add   | 4.40                      |                         |
| For 20 Gauge, Add   | 7.17                      |                         |
| For 18 Gauge, Add   | 10.99                     |                         |
| For 16 Gauge, Add   | 13.38                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 7.07                      |                         |
| For Work In Restricted Working Space, Add   | 160.09                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 23 31 13 16-0161        | EA  |     | 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling..... | 611.86                 | 301.21               |
|                         |     |     | <i>For Seal Class B, Add</i>  | 90.27                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 240.71                 |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 2.02                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 4.64                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 7.57                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 11.60                  |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 14.13                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 7.47                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 180.53                 |                      |
| <b>23 31 13 16-0162</b> |     |     | <b>Slip Joint, Galvanized, Spiral Duct Caps <small>(23 31 13 16-0074)</small></b>       |                        |                      |
| 23 31 13 16-0163        | EA  |     | 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....      | 44.06                  | 19.80                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 5.73                   |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 15.29                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 1.17                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 2.69                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 4.38                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 6.72                   |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 8.18                   |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 4.32                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 11.47                  |                      |
| 23 31 13 16-0164        | EA  |     | 6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....      | 63.11                  | 28.28                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 8.48                   |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 22.62                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 1.31                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 3.01                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 4.91                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 7.53                   |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 9.17                   |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 4.85                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 16.97                  |                      |
| 23 31 13 16-0165        | EA  |     | 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....      | 81.60                  | 38.18                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 11.16                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 29.77                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 1.43                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 3.30                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 5.38                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 8.25                   |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 10.04                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 5.31                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 22.33                  |                      |
| 23 31 13 16-0166        | EA  |     | 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....     | 102.25                 | 48.08                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 14.14                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 37.71                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 1.59                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 3.67                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 5.98                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 9.17                   |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 11.16                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 5.90                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 28.28                  |                      |
| 23 31 13 16-0167        | EA  |     | 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....     | 126.69                 | 59.40                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 17.68                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 47.14                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 1.77                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 4.07                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 6.64                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 10.18                  |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 12.39                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 6.55                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 35.35                  |                      |
| 23 31 13 16-0168        | EA  |     | 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....     | 138.30                 | 65.05                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 19.28                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 51.42                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 1.95                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 4.48                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 7.31                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 11.20                  |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 13.64                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 7.21                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 38.57                  |                      |
| 23 31 13 16-0169        | EA  |     | 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....     | 160.10                 | 74.95                |
|                         |     |     | <i>For Seal Class B, Add</i>  | 22.33                  |                      |
|                         |     |     | <i>For Seal Class A, Add</i>  | 59.54                  |                      |
|                         |     |     | <i>For 24 Gauge, Add</i>  | 2.25                   |                      |
|                         |     |     | <i>For 22 Gauge, Add</i>  | 5.17                   |                      |
|                         |     |     | <i>For 20 Gauge, Add</i>  | 8.43                   |                      |
|                         |     |     | <i>For 18 Gauge, Add</i>  | 12.93                  |                      |
|                         |     |     | <i>For 16 Gauge, Add</i>  | 15.74                  |                      |
|                         |     |     | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>                     | 8.32                   |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 44.66                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 13 16-0170 EA 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap ..... | 226.44                    | 94.75                   |
| For Seal Class B, Add   | 28.28                     |                         |
| For Seal Class A, Add   | 75.42                     |                         |
| For 24 Gauge, Add   | 7.58                      |                         |
| For 22 Gauge, Add   | 17.43                     |                         |
| For 20 Gauge, Add   | 28.42                     |                         |
| For 18 Gauge, Add   | 43.57                     |                         |
| For 16 Gauge, Add   | 53.05                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 28.04                     |                         |
| For Work In Restricted Working Space, Add   | 56.57                     |                         |
| 23 31 13 16-0171 EA 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap ..... | 276.77                    | 117.38                  |
| For Seal Class B, Add   | 35.35                     |                         |
| For Seal Class A, Add   | 94.28                     |                         |
| For 24 Gauge, Add   | 8.22                      |                         |
| For 22 Gauge, Add   | 18.90                     |                         |
| For 20 Gauge, Add   | 30.81                     |                         |
| For 18 Gauge, Add   | 47.24                     |                         |
| For 16 Gauge, Add   | 57.51                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 30.40                     |                         |
| For Work In Restricted Working Space, Add   | 70.71                     |                         |
| 23 31 13 16-0172 EA 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap ..... | 301.37                    | 128.68                  |
| For Seal Class B, Add   | 38.57                     |                         |
| For Seal Class A, Add   | 102.84                    |                         |
| For 24 Gauge, Add   | 8.85                      |                         |
| For 22 Gauge, Add   | 20.36                     |                         |
| For 20 Gauge, Add   | 33.20                     |                         |
| For 18 Gauge, Add   | 50.90                     |                         |
| For 16 Gauge, Add   | 61.96                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 32.75                     |                         |
| For Work In Restricted Working Space, Add   | 77.13                     |                         |
| 23 31 13 16-0173 EA 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap ..... | 348.42                    | 149.90                  |
| For Seal Class B, Add   | 45.13                     |                         |
| For Seal Class A, Add   | 120.35                    |                         |
| For 24 Gauge, Add   | 9.51                      |                         |
| For 22 Gauge, Add   | 21.87                     |                         |
| For 20 Gauge, Add   | 35.66                     |                         |
| For 18 Gauge, Add   | 54.67                     |                         |
| For 16 Gauge, Add   | 66.56                     |                         |
| For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add  | 35.18                     |                         |
| For Work In Restricted Working Space, Add   | 90.26                     |                         |
| <br><b>23 31 13 19 Metal Duct Fittings (23 31 13)</b>   |                           |                         |
| <b>23 31 13 19-0001 Sheet Metal Baffles (23 31 13 19)</b>   |                           |                         |
| 23 31 13 19-0002 LF Sheet Metal Baffles Under Raised Floor.....   | 49.71                     | 40.07                   |
| For Work In Restricted Working Space, Add   | 14.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.88                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.77                      |                         |
| For Elevated Installation >20' To 25', Add  | 12.21                     |                         |
| For Elevated Installation >25' To 30', Add  | 17.09                     |                         |
| For Elevated Installation >30' To 35', Add  | 19.53                     |                         |
| For Elevated Installation >35' To 40', Add  | 24.42                     |                         |
| For Elevated Installation >40', Add   | 26.86                     |                         |
| <br><b>23 31 13 19-0003 Duct Register Boots (23 31 13 19)</b>   |                           |                         |
| 23 31 13 19-0004 EA 10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....                   | 46.79                     | 19.17                   |
| For Stainless Steel, Add  | 10.97                     |                         |
| 23 31 13 19-0005 EA 10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....                   | 46.79                     | 19.17                   |
| For Stainless Steel, Add  | 10.97                     |                         |
| 23 31 13 19-0006 EA 12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....                   | 50.03                     | 20.71                   |
| For Stainless Steel, Add  | 11.21                     |                         |
| 23 31 13 19-0007 EA 12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....                   | 50.03                     | 20.71                   |
| For Stainless Steel, Add  | 11.21                     |                         |
| 23 31 13 19-0008 EA 12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....                   | 52.11                     | 20.71                   |
| For Stainless Steel, Add  | 13.91                     |                         |
| 23 31 13 19-0009 EA 14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....                   | 54.15                     | 22.24                   |
| For Stainless Steel, Add  | 12.56                     |                         |
| 23 31 13 19-0010 EA 14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....                   | 54.15                     | 22.24                   |
| For Stainless Steel, Add  | 12.56                     |                         |
| 23 31 13 19-0011 EA 14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....                   | 55.44                     | 22.24                   |
| For Stainless Steel, Add  | 14.24                     |                         |
| 23 31 13 19-0012 EA 10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....                       | 55.15                     | 23.78                   |
| For Stainless Steel, Add  | 9.87                      |                         |
| 23 31 13 19-0013 EA 12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....                       | 58.44                     | 25.31                   |
| For Stainless Steel, Add  | 10.17                     |                         |
| 23 31 13 19-0014 EA 12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....                       | 63.74                     | 25.31                   |
| For Stainless Steel, Add  | 17.06                     |                         |
| 23 31 13 19-0015 EA 14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....                       | 61.98                     | 26.85                   |
| For Stainless Steel, Add  | 10.78                     |                         |
| 23 31 13 19-0016 EA 14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....                       | 67.17                     | 26.85                   |
| For Stainless Steel, Add  | 17.52                     |                         |
| 23 31 13 19-0017 EA 12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel.....                      | 48.78                     | 20.71                   |
| For Stainless Steel, Add  | 9.58                      |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 31 13 19-0018 | EA  |     | 12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel    | 48.78                  | 20.71                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 9.58                   |                      |
| 23 31 13 19-0019 | EA  |     | 14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel    | 52.70                  | 22.24                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 10.67                  |                      |
| 23 31 13 19-0020 | EA  |     | 14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel    | 53.94                  | 22.24                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 12.29                  |                      |
| 23 31 13 19-0021 | EA  |     | 10" x 4" x 6" Register Boot, Center, Galvanized Steel        | 55.32                  | 23.78                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 10.09                  |                      |
| 23 31 13 19-0022 | EA  |     | 12" x 4" x 6" Register Boot, Center, Galvanized Steel        | 58.59                  | 25.31                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 10.36                  |                      |
| 23 31 13 19-0023 | EA  |     | 12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel       | 49.62                  | 20.71                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 10.67                  |                      |
| 23 31 13 19-0024 | EA  |     | 14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel       | 53.21                  | 22.24                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 11.34                  |                      |
| 23 31 13 19-0025 | EA  |     | 10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel | 46.79                  | 19.17                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 10.97                  |                      |
| 23 31 13 19-0026 | EA  |     | 12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel | 50.03                  | 20.71                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 11.21                  |                      |
| 23 31 13 19-0027 | EA  |     | 14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel | 54.15                  | 22.24                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 12.56                  |                      |
| 23 31 13 19-0028 | EA  |     | 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel | 54.15                  | 22.24                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 12.56                  |                      |
| 23 31 13 19-0029 | EA  |     | 10" x 4" x 6" Register Boot, Universal, Galvanized Steel     | 55.15                  | 23.78                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 9.87                   |                      |
| 23 31 13 19-0030 | EA  |     | 12" x 4" x 6" Register Boot, Universal, Galvanized Steel     | 58.44                  | 25.31                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 10.17                  |                      |
| 23 31 13 19-0031 | EA  |     | 12" x 4" x 7" Register Boot, Universal, Galvanized Steel     | 63.74                  | 25.31                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 17.06                  |                      |
| 23 31 13 19-0032 | EA  |     | 14" x 4" x 7" Register Boot, Universal, Galvanized Steel     | 66.81                  | 26.85                |
|                  |     |     | <i>For Stainless Steel, Add</i>                              | 17.06                  |                      |

**23 31 13 23 Galvanized Steel Welded Duct (23 31 13)**

Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.

**23 31 13 23-0001 Welded Steel Ductwork (23 31 13 23)**

Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.

**23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen (23 31 13 23-0001)**

Note: Also includes special exhaust systems and waste.

|                  |    |  |   |       |       |
|------------------|----|--|---|-------|-------|
| 23 31 13 23-0003 | LB |  | Galvanized Steel Welded Duct  | 27.93 | 12.14 |
|                  |    |  | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i> | 2.65  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>                    | 7.31  |       |
|                  |    |  | <i>For Elevated Installation &gt;10' To 15', Add</i>                | 2.44  |       |
|                  |    |  | <i>For Elevated Installation &gt;15' To 20', Add</i>                | 4.87  |       |
|                  |    |  | <i>For Elevated Installation &gt;20' To 25', Add</i>                | 6.09  |       |
|                  |    |  | <i>For Elevated Installation &gt;25' To 30', Add</i>                | 8.52  |       |
|                  |    |  | <i>For Elevated Installation &gt;30' To 35', Add</i>                | 9.74  |       |
|                  |    |  | <i>For Elevated Installation &gt;35' To 40', Add</i>                | 12.18 |       |
|                  |    |  | <i>For Elevated Installation &gt;40', Add</i>                       | 13.39 |       |

**23 31 13 23-0004 Black Steel Ductwork (23 31 13 23-0001)**

|                  |    |  |   |       |       |
|------------------|----|--|---|-------|-------|
| 23 31 13 23-0005 | LB |  | Black Steel Ductwork  | 25.84 | 12.53 |
|                  |    |  | <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i> | 0.59  |       |
|                  |    |  | <i>For Work In Restricted Working Space, Add</i>                    | 7.51  |       |
|                  |    |  | <i>For Elevated Installation &gt;10' To 15', Add</i>                | 2.50  |       |
|                  |    |  | <i>For Elevated Installation &gt;15' To 20', Add</i>                | 5.01  |       |
|                  |    |  | <i>For Elevated Installation &gt;20' To 25', Add</i>                | 6.26  |       |
|                  |    |  | <i>For Elevated Installation &gt;25' To 30', Add</i>                | 8.76  |       |
|                  |    |  | <i>For Elevated Installation &gt;30' To 35', Add</i>                | 10.02 |       |
|                  |    |  | <i>For Elevated Installation &gt;35' To 40', Add</i>                | 12.52 |       |
|                  |    |  | <i>For Elevated Installation &gt;40', Add</i>                       | 13.77 |       |

**23 31 16 Non-metal Ducts (23 31)****23 31 16 13 Fibrous-Glass Ducts (23 31 16)****23 31 16 13-0001 Glass Fiber Duct Board (23 31 16 13)**

Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.

|                  |    |  |  |       |      |
|------------------|----|--|--|-------|------|
| 23 31 16 13-0002 | SF |  | 1" Glass Fiber Duct Board (EI-475)     | 12.30 | 2.51 |
| 23 31 16 13-0003 | SF |  | 1-1/2" Glass Fiber Duct Board (EI-800) | 14.44 | 2.76 |
| 23 31 16 13-0004 | SF |  | 2" Glass Fiber Duct Board (EI-800)     | 16.68 | 3.03 |

**23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts (23 31 16)****23 31 16 16-0001 Fiber Reinforced Round Plastic Duct (23 31 16 16)****23 31 16 16-0002 Fiber Reinforced Round Plastic Duct (23 31 16 16-0001)**

|                  |    |  |                                  |       |       |
|------------------|----|--|----------------------------------|-------|-------|
| 23 31 16 16-0003 | LF |  | 2" Fiber Reinforced Plastic Duct | 21.17 | 7.47  |
| 23 31 16 16-0004 | LF |  | 3" Fiber Reinforced Plastic Duct | 26.35 | 8.74  |
| 23 31 16 16-0005 | LF |  | 4" Fiber Reinforced Plastic Duct | 36.03 | 12.83 |



| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|--|------------------------|----------------------|
| 23 31 16 16-0006  | LF  |     | 6" Fiber Reinforced Plastic Duct .....             | 47.51                  | 16.21                |
| 23 31 16 16-0007  | LF  |     | 8" Fiber Reinforced Plastic Duct .....             | 60.12                  | 20.30                |
| 23 31 16 16-0008  | LF  |     | 10" Fiber Reinforced Plastic Duct .....            | 72.47                  | 24.39                |
| 23 31 16 16-0009  | LF  |     | 12" Fiber Reinforced Plastic Duct .....            | 81.88                  | 28.48                |
| 23 31 16 16-0010  | LF  |     | 14" Fiber Reinforced Plastic Duct .....            | 93.03                  | 31.15                |
| 23 31 16 16-0011  | LF  |     | 16" Fiber Reinforced Plastic Duct .....            | 100.40                 | 33.13                |
| 23 31 16 16-0012  | LF  |     | 18" Fiber Reinforced Plastic Duct .....            | 123.62                 | 37.22                |
| 23 31 16 16-0013  | LF  |     | 20" Fiber Reinforced Plastic Duct .....            | 130.25                 | 39.90                |
| 23 31 16 16-0014  | LF  |     | 24" Fiber Reinforced Plastic Duct .....            | 158.66                 | 42.58                |
| 23 31 16 16-0015  | LF  |     | 30" Fiber Reinforced Plastic Duct .....            | 181.89                 | 49.34                |
| 23 31 16 16-0016  | LF  |     | 36" Fiber Reinforced Plastic Duct .....            | 210.75                 | 59.49                |
| 23 31 16 16-0017  | LF  |     | 42" Fiber Reinforced Plastic Duct .....            | 277.78                 | 66.26                |
| 23 31 16 16-0018  | LF  |     | 48" Fiber Reinforced Plastic Duct .....            | 311.23                 | 74.44                |
| 23 31 16 16-0019  | LF  |     | 54" Fiber Reinforced Plastic Duct .....            | 346.53                 | 85.29                |
| 23 31 16 16-0020  | LF  |     | 60" Fiber Reinforced Plastic Duct .....            | 394.10                 | 99.53                |
| 23 31 16 16-0021  | LF  |     | 66" Fiber Reinforced Plastic Duct .....            | 427.35                 | 121.81               |
| 23 31 16 16-0022  | LF  |     | 72" Fiber Reinforced Plastic Duct .....            | 521.56                 | 148.88               |
| <b>23 31 16 16-0023 Fiber Reinforced Plastic Bell (23 31 16 16-0001)</b>            |     |     |  |                        |                      |
| 23 31 16 16-0024  | EA  |     | 2" Fiber Reinforced Plastic Bell .....             | 77.08                  | 30.31                |
| 23 31 16 16-0025  | EA  |     | 3" Fiber Reinforced Plastic Bell .....             | 92.46                  | 35.95                |
| 23 31 16 16-0026  | EA  |     | 4" Fiber Reinforced Plastic Bell .....             | 107.21                 | 42.29                |
| 23 31 16 16-0027  | EA  |     | 6" Fiber Reinforced Plastic Bell .....             | 141.58                 | 56.39                |
| 23 31 16 16-0028  | EA  |     | 8" Fiber Reinforced Plastic Bell .....             | 173.88                 | 70.49                |
| 23 31 16 16-0029  | EA  |     | 10" Fiber Reinforced Plastic Bell .....            | 204.13                 | 84.59                |
| 23 31 16 16-0030  | EA  |     | 12" Fiber Reinforced Plastic Bell .....            | 253.23                 | 105.03               |
| 23 31 16 16-0031  | EA  |     | 14" Fiber Reinforced Plastic Bell .....            | 270.04                 | 112.79               |
| 23 31 16 16-0032  | EA  |     | 16" Fiber Reinforced Plastic Bell .....            | 292.48                 | 120.54               |
| 23 31 16 16-0033  | EA  |     | 18" Fiber Reinforced Plastic Bell .....            | 314.93                 | 129.70               |
| 23 31 16 16-0034  | EA  |     | 20" Fiber Reinforced Plastic Bell .....            | 343.64                 | 140.98               |
| 23 31 16 16-0035  | EA  |     | 24" Fiber Reinforced Plastic Bell .....            | 392.40                 | 155.08               |
| 23 31 16 16-0036  | EA  |     | 30" Fiber Reinforced Plastic Bell .....            | 447.33                 | 169.18               |
| 23 31 16 16-0037  | EA  |     | 36" Fiber Reinforced Plastic Bell .....            | 506.08                 | 190.33               |
| 23 31 16 16-0038  | EA  |     | 42" Fiber Reinforced Plastic Bell .....            | 564.82                 | 211.47               |
| 23 31 16 16-0039  | EA  |     | 48" Fiber Reinforced Plastic Bell .....            | 623.54                 | 232.62               |
| 23 31 16 16-0040  | EA  |     | 54" Fiber Reinforced Plastic Bell .....            | 769.54                 | 281.96               |
| 23 31 16 16-0041  | EA  |     | 60" Fiber Reinforced Plastic Bell .....            | 931.09                 | 352.45               |
| 23 31 16 16-0042  | EA  |     | 66" Fiber Reinforced Plastic Bell .....            | 1,117.23               | 422.94               |
| 23 31 16 16-0043  | EA  |     | 72" Fiber Reinforced Plastic Bell .....            | 1,275.45               | 479.34               |
| <b>23 31 16 16-0044 Fiber Reinforced Plastic Flange (23 31 16 16-0001)</b>          |     |     |  |                        |                      |
| 23 31 16 16-0045  | EA  |     | 2" Fiber Reinforced Plastic Flange .....           | 109.98                 | 30.31                |
| 23 31 16 16-0046  | EA  |     | 3" Fiber Reinforced Plastic Flange .....           | 127.42                 | 35.95                |
| 23 31 16 16-0047  | EA  |     | 4" Fiber Reinforced Plastic Flange .....           | 146.27                 | 42.29                |
| 23 31 16 16-0048  | EA  |     | 6" Fiber Reinforced Plastic Flange .....           | 190.92                 | 56.39                |
| 23 31 16 16-0049  | EA  |     | 8" Fiber Reinforced Plastic Flange .....           | 233.51                 | 70.49                |
| 23 31 16 16-0050  | EA  |     | 10" Fiber Reinforced Plastic Flange .....          | 276.10                 | 84.59                |
| 23 31 16 16-0051  | EA  |     | 12" Fiber Reinforced Plastic Flange .....          | 329.31                 | 105.03               |
| 23 31 16 16-0052  | EA  |     | 14" Fiber Reinforced Plastic Flange .....          | 362.57                 | 112.79               |
| 23 31 16 16-0053  | EA  |     | 16" Fiber Reinforced Plastic Flange .....          | 395.29                 | 120.54               |
| 23 31 16 16-0054  | EA  |     | 18" Fiber Reinforced Plastic Flange .....          | 421.85                 | 129.70               |
| 23 31 16 16-0055  | EA  |     | 20" Fiber Reinforced Plastic Flange .....          | 446.45                 | 140.98               |
| 23 31 16 16-0056  | EA  |     | 24" Fiber Reinforced Plastic Flange .....          | 515.76                 | 155.08               |
| 23 31 16 16-0057  | EA  |     | 30" Fiber Reinforced Plastic Flange .....          | 566.58                 | 169.18               |
| 23 31 16 16-0058  | EA  |     | 36" Fiber Reinforced Plastic Flange .....          | 684.97                 | 190.33               |
| 23 31 16 16-0059  | EA  |     | 42" Fiber Reinforced Plastic Flange .....          | 762.21                 | 211.47               |
| 23 31 16 16-0060  | EA  |     | 48" Fiber Reinforced Plastic Flange .....          | 860.00                 | 232.62               |
| 23 31 16 16-0061  | EA  |     | 54" Fiber Reinforced Plastic Flange .....          | 1,016.28               | 281.96               |
| 23 31 16 16-0062  | EA  |     | 60" Fiber Reinforced Plastic Flange .....          | 1,225.11               | 352.45               |
| 23 31 16 16-0063  | EA  |     | 66" Fiber Reinforced Plastic Flange .....          | 1,433.88               | 422.94               |
| 23 31 16 16-0064  | EA  |     | 72" Fiber Reinforced Plastic Flange .....          | 1,637.33               | 479.34               |
| <b>23 31 16 16-0065 Fiber Reinforced Plastic 90 Degree Elbow (23 31 16 16-0001)</b> |     |     |  |                        |                      |
| 23 31 16 16-0066  | EA  |     | 2" Fiber Reinforced Plastic 90 Degree Elbow .....  | 189.66                 | 73.02                |
| 23 31 16 16-0067  | EA  |     | 3" Fiber Reinforced Plastic 90 Degree Elbow .....  | 223.62                 | 87.26                |
| 23 31 16 16-0068  | EA  |     | 4" Fiber Reinforced Plastic 90 Degree Elbow .....  | 259.64                 | 101.50               |
| 23 31 16 16-0069  | EA  |     | 6" Fiber Reinforced Plastic 90 Degree Elbow .....  | 338.66                 | 135.34               |
| 23 31 16 16-0070  | EA  |     | 8" Fiber Reinforced Plastic 90 Degree Elbow .....  | 417.67                 | 169.18               |
| 23 31 16 16-0071  | EA  |     | 10" Fiber Reinforced Plastic 90 Degree Elbow ..... | 496.70                 | 203.02               |
| 23 31 16 16-0072  | EA  |     | 12" Fiber Reinforced Plastic 90 Degree Elbow ..... | 611.95                 | 252.50               |
| 23 31 16 16-0073  | EA  |     | 14" Fiber Reinforced Plastic 90 Degree Elbow ..... | 681.98                 | 267.30               |
| 23 31 16 16-0074  | EA  |     | 16" Fiber Reinforced Plastic 90 Degree Elbow ..... | 767.62                 | 290.28               |
| 23 31 16 16-0075  | EA  |     | 18" Fiber Reinforced Plastic 90 Degree Elbow ..... | 893.07                 | 311.29               |
| 23 31 16 16-0076  | EA  |     | 20" Fiber Reinforced Plastic 90 Degree Elbow ..... | 1,016.37               | 338.36               |
| 23 31 16 16-0077  | EA  |     | 24" Fiber Reinforced Plastic 90 Degree Elbow ..... | 1,165.28               | 372.19               |
| 23 31 16 16-0078  | EA  |     | 30" Fiber Reinforced Plastic 90 Degree Elbow ..... | 1,509.49               | 406.02               |
| 23 31 16 16-0079  | EA  |     | 36" Fiber Reinforced Plastic 90 Degree Elbow ..... | 1,892.28               | 456.77               |
| 23 31 16 16-0080  | EA  |     | 42" Fiber Reinforced Plastic 90 Degree Elbow ..... | 2,429.25               | 507.67               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 31 16 16-0081 EA 48" Fiber Reinforced Plastic 90 Degree Elbow .....                | 2,853.18                  | 558.43                  |
| 23 31 16 16-0082 EA 54" Fiber Reinforced Plastic 90 Degree Elbow .....                | 3,389.59                  | 676.71                  |
| 23 31 16 16-0083 EA 60" Fiber Reinforced Plastic 90 Degree Elbow .....                | 4,123.91                  | 845.88                  |
| 23 31 16 16-0084 EA 66" Fiber Reinforced Plastic 90 Degree Elbow .....                | 4,857.69                  | 1,014.78                |
| 23 31 16 16-0085 EA 72" Fiber Reinforced Plastic 90 Degree Elbow .....                | 5,535.35                  | 1,149.98                |
| <b>23 31 16 16-0086 Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)</b>   |                           |                         |
| 23 31 16 16-0087 EA 2" Fiber Reinforced Plastic 45 Degree Elbow .....                 | 167.04                    | 73.02                   |
| 23 31 16 16-0088 EA 3" Fiber Reinforced Plastic 45 Degree Elbow .....                 | 196.89                    | 87.26                   |
| 23 31 16 16-0089 EA 4" Fiber Reinforced Plastic 45 Degree Elbow .....                 | 228.77                    | 101.50                  |
| 23 31 16 16-0090 EA 6" Fiber Reinforced Plastic 45 Degree Elbow .....                 | 293.42                    | 135.34                  |
| 23 31 16 16-0091 EA 8" Fiber Reinforced Plastic 45 Degree Elbow .....                 | 358.04                    | 169.18                  |
| 23 31 16 16-0092 EA 10" Fiber Reinforced Plastic 45 Degree Elbow .....                | 426.89                    | 203.02                  |
| 23 31 16 16-0093 EA 12" Fiber Reinforced Plastic 45 Degree Elbow .....                | 527.75                    | 252.50                  |
| 23 31 16 16-0094 EA 14" Fiber Reinforced Plastic 45 Degree Elbow .....                | 568.78                    | 267.30                  |
| 23 31 16 16-0095 EA 16" Fiber Reinforced Plastic 45 Degree Elbow .....                | 660.43                    | 290.14                  |
| 23 31 16 16-0096 EA 18" Fiber Reinforced Plastic 45 Degree Elbow .....                | 745.41                    | 311.57                  |
| 23 31 16 16-0097 EA 20" Fiber Reinforced Plastic 45 Degree Elbow .....                | 847.68                    | 338.36                  |
| 23 31 16 16-0098 EA 24" Fiber Reinforced Plastic 45 Degree Elbow .....                | 965.18                    | 371.91                  |
| 23 31 16 16-0099 EA 30" Fiber Reinforced Plastic 45 Degree Elbow .....                | 1,179.98                  | 405.74                  |
| 23 31 16 16-0100 EA 36" Fiber Reinforced Plastic 45 Degree Elbow .....                | 1,417.97                  | 457.20                  |
| 23 31 16 16-0101 EA 42" Fiber Reinforced Plastic 45 Degree Elbow .....                | 1,757.50                  | 507.96                  |
| 23 31 16 16-0102 EA 48" Fiber Reinforced Plastic 45 Degree Elbow .....                | 2,041.01                  | 558.43                  |
| 23 31 16 16-0103 EA 54" Fiber Reinforced Plastic 45 Degree Elbow .....                | 2,439.66                  | 676.71                  |
| 23 31 16 16-0104 EA 60" Fiber Reinforced Plastic 45 Degree Elbow .....                | 2,947.80                  | 845.88                  |
| 23 31 16 16-0105 EA 66" Fiber Reinforced Plastic 45 Degree Elbow .....                | 3,476.83                  | 1,012.81                |
| 23 31 16 16-0106 EA 72" Fiber Reinforced Plastic 45 Degree Elbow .....                | 3,933.65                  | 1,151.11                |
| <b>23 31 16 16-0107 Fiber Reinforced Plastic Tee (23 31 16 16-0001)</b>               |                           |                         |
| 23 31 16 16-0108 EA 2" Fiber Reinforced Plastic Tee .....                             | 253.55                    | 108.97                  |
| 23 31 16 16-0109 EA 3" Fiber Reinforced Plastic Tee .....                             | 301.04                    | 131.26                  |
| 23 31 16 16-0110 EA 4" Fiber Reinforced Plastic Tee .....                             | 346.30                    | 152.26                  |
| 23 31 16 16-0111 EA 6" Fiber Reinforced Plastic Tee .....                             | 451.47                    | 203.02                  |
| 23 31 16 16-0112 EA 8" Fiber Reinforced Plastic Tee .....                             | 554.38                    | 252.50                  |
| 23 31 16 16-0113 EA 10" Fiber Reinforced Plastic Tee .....                            | 663.98                    | 305.93                  |
| 23 31 16 16-0114 EA 12" Fiber Reinforced Plastic Tee .....                            | 803.06                    | 370.78                  |
| 23 31 16 16-0115 EA 14" Fiber Reinforced Plastic Tee .....                            | 874.40                    | 401.23                  |
| 23 31 16 16-0116 EA 16" Fiber Reinforced Plastic Tee .....                            | 993.71                    | 435.92                  |
| 23 31 16 16-0117 EA 18" Fiber Reinforced Plastic Tee .....                            | 1,107.19                  | 466.93                  |
| 23 31 16 16-0118 EA 20" Fiber Reinforced Plastic Tee .....                            | 1,257.25                  | 507.67                  |
| 23 31 16 16-0119 EA 24" Fiber Reinforced Plastic Tee .....                            | 1,424.16                  | 558.43                  |
| 23 31 16 16-0120 EA 30" Fiber Reinforced Plastic Tee .....                            | 1,662.52                  | 608.90                  |
| 23 31 16 16-0121 EA 36" Fiber Reinforced Plastic Tee .....                            | 1,964.93                  | 685.45                  |
| 23 31 16 16-0122 EA 42" Fiber Reinforced Plastic Tee .....                            | 2,502.87                  | 761.58                  |
| 23 31 16 16-0123 EA 48" Fiber Reinforced Plastic Tee .....                            | 2,938.50                  | 837.85                  |
| 23 31 16 16-0124 EA 54" Fiber Reinforced Plastic Tee .....                            | 3,543.39                  | 1,015.76                |
| 23 31 16 16-0125 EA 60" Fiber Reinforced Plastic Tee .....                            | 4,274.51                  | 1,269.39                |
| 23 31 16 16-0126 EA 66" Fiber Reinforced Plastic Tee .....                            | 5,004.82                  | 1,522.45                |
| 23 31 16 16-0127 EA 72" Fiber Reinforced Plastic Tee .....                            | 5,652.95                  | 1,726.31                |
| <b>23 31 16 16-0128 Fiber Reinforced Plastic Lateral Joint (23 31 16 16-0001)</b>     |                           |                         |
| 23 31 16 16-0129 EA 2" Fiber Reinforced Plastic Lateral Joint .....                   | 222.69                    | 108.97                  |
| 23 31 16 16-0130 EA 3" Fiber Reinforced Plastic Lateral Joint .....                   | 263.99                    | 131.26                  |
| 23 31 16 16-0131 EA 4" Fiber Reinforced Plastic Lateral Joint .....                   | 303.15                    | 152.26                  |
| 23 31 16 16-0132 EA 6" Fiber Reinforced Plastic Lateral Joint .....                   | 391.94                    | 203.02                  |
| 23 31 16 16-0133 EA 8" Fiber Reinforced Plastic Lateral Joint .....                   | 478.40                    | 252.50                  |
| 23 31 16 16-0134 EA 10" Fiber Reinforced Plastic Lateral Joint .....                  | 575.64                    | 305.93                  |
| 23 31 16 16-0135 EA 12" Fiber Reinforced Plastic Lateral Joint .....                  | 692.36                    | 371.06                  |
| 23 31 16 16-0136 EA 14" Fiber Reinforced Plastic Lateral Joint .....                  | 750.40                    | 400.95                  |
| 23 31 16 16-0137 EA 16" Fiber Reinforced Plastic Lateral Joint .....                  | 821.29                    | 436.06                  |
| 23 31 16 16-0138 EA 18" Fiber Reinforced Plastic Lateral Joint .....                  | 885.82                    | 467.35                  |
| 23 31 16 16-0139 EA 20" Fiber Reinforced Plastic Lateral Joint .....                  | 965.89                    | 507.96                  |
| 23 31 16 16-0140 EA 24" Fiber Reinforced Plastic Lateral Joint .....                  | 1,066.40                  | 558.43                  |
| 23 31 16 16-0141 EA 30" Fiber Reinforced Plastic Lateral Joint .....                  | 1,172.57                  | 608.61                  |
| 23 31 16 16-0142 EA 36" Fiber Reinforced Plastic Lateral Joint .....                  | 1,322.67                  | 685.03                  |
| 23 31 16 16-0143 EA 42" Fiber Reinforced Plastic Lateral Joint .....                  | 1,475.70                  | 762.00                  |
| 23 31 16 16-0144 EA 48" Fiber Reinforced Plastic Lateral Joint .....                  | 1,622.03                  | 837.56                  |
| 23 31 16 16-0145 EA 54" Fiber Reinforced Plastic Lateral Joint .....                  | 1,945.01                  | 1,012.81                |
| 23 31 16 16-0146 EA 60" Fiber Reinforced Plastic Lateral Joint .....                  | 2,396.95                  | 1,271.65                |
| 23 31 16 16-0147 EA 66" Fiber Reinforced Plastic Lateral Joint .....                  | 2,888.82                  | 1,523.58                |
| 23 31 16 16-0148 EA 72" Fiber Reinforced Plastic Lateral Joint .....                  | 3,247.27                  | 1,726.31                |
| <b>23 31 16 16-0149 Fiber Reinforced Plastic One Piece Reducer (23 31 16 16-0001)</b> |                           |                         |
| 23 31 16 16-0150 EA 2" Fiber Reinforced Plastic One Piece Reducer .....               | 175.31                    | 73.17                   |
| 23 31 16 16-0151 EA 3" Fiber Reinforced Plastic One Piece Reducer .....               | 207.25                    | 87.40                   |
| 23 31 16 16-0152 EA 4" Fiber Reinforced Plastic One Piece Reducer .....               | 243.27                    | 101.50                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer .....  | 316.04                    | 135.34                  |
| 23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer .....  | 384.77                    | 169.18                  |
| 23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer ..... | 463.08                    | 203.86                  |
| 23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer ..... | 556.54                    | 252.50                  |
| 23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer ..... | 593.45                    | 267.30                  |
| 23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer ..... | 652.20                    | 290.14                  |
| 23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer ..... | 712.51                    | 311.57                  |
| 23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer ..... | 790.11                    | 338.36                  |
| 23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer ..... | 892.47                    | 372.62                  |
| 23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer ..... | 994.44                    | 406.73                  |
| 23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer ..... | 1,123.94                  | 457.20                  |
| 23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer ..... | 1,253.75                  | 507.96                  |
| 23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer ..... | 1,403.60                  | 558.43                  |
| 23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer ..... | 1,672.72                  | 676.71                  |
| 23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer ..... | 2,020.48                  | 845.88                  |
| 23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer ..... | 2,304.83                  | 1,012.81                |
| 23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer ..... | 2,597.16                  | 1,151.11                |

**23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer** (23 31 16 16-0001)

|  |          |          |
|--|----------|----------|
| 23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer .....  | 199.98   | 73.17    |
| 23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer .....  | 223.70   | 87.40    |
| 23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer .....  | 259.72   | 101.50   |
| 23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer .....  | 338.66   | 135.34   |
| 23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer .....  | 417.67   | 169.18   |
| 23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer ..... | 498.03   | 203.86   |
| 23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer ..... | 601.77   | 252.50   |
| 23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer ..... | 651.02   | 267.30   |
| 23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer ..... | 709.78   | 290.14   |
| 23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer ..... | 790.64   | 311.57   |
| 23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer ..... | 962.82   | 338.36   |
| 23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer ..... | 1,145.38 | 372.62   |
| 23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer ..... | 1,232.95 | 406.73   |
| 23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer ..... | 1,399.46 | 457.20   |
| 23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer ..... | 1,525.16 | 507.96   |
| 23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer ..... | 1,670.90 | 558.43   |
| 23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer ..... | 1,888.61 | 676.71   |
| 23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer ..... | 2,224.04 | 845.88   |
| 23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer ..... | 2,531.01 | 1,012.81 |
| 23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer ..... | 2,802.77 | 1,151.11 |

**23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers** (23 31 16 16-0001)

|   |          |          |
|---|----------|----------|
| 23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper .....  | 458.06   | 73.02    |
| 23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper .....  | 517.16   | 87.26    |
| 23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper .....  | 576.24   | 101.50   |
| 23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper .....  | 685.73   | 135.34   |
| 23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper .....  | 812.92   | 169.18   |
| 23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper ..... | 922.43   | 203.02   |
| 23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper ..... | 1,057.88 | 252.50   |
| 23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper ..... | 1,171.16 | 267.30   |
| 23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper ..... | 1,298.00 | 290.28   |
| 23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper ..... | 1,421.47 | 311.29   |
| 23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper ..... | 1,519.74 | 338.36   |
| 23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper ..... | 1,717.71 | 372.19   |
| 23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper ..... | 1,986.44 | 406.02   |
| 23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper ..... | 2,283.47 | 456.77   |
| 23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper ..... | 2,615.87 | 507.67   |
| 23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper ..... | 2,912.92 | 558.43   |
| 23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper ..... | 3,428.64 | 676.71   |
| 23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper ..... | 4,029.19 | 845.88   |
| 23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper ..... | 4,593.78 | 1,014.78 |
| 23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper ..... | 5,279.26 | 1,149.98 |

**23 31 16 23 Fabric Ducts** (23 31 16)

**23 31 16 23-0001 Heavy Duty Fabric Ducts (Zip-A-Duct™)** (23 31 16 23)

**23 31 16 23-0002 Heavy Duty Fabric Duct Without Vents** (23 31 16 23-0001)

Note: Includes fabric loops for cable hooks. Requires Suspension Hardware as well as an Inlet Section and Endcap per complete run. See CSI section 23 31 16 23-0064 for suspension hardware.

|   |        |       |
|---|--------|-------|
| 23 31 16 23-0003 EA 12" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....  | 195.02 | 10.65 |
| Note: Excludes suspension cable and hardware.   |        |       |
| 23 31 16 23-0004 EA 12" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents ..... | 303.48 | 14.19 |
| Note: Excludes suspension cable and hardware.   |        |       |
| 23 31 16 23-0005 EA 16" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....  | 238.24 | 17.74 |
| Note: Excludes suspension cable and hardware.   |        |       |
| 23 31 16 23-0006 EA 16" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents ..... | 352.84 | 23.31 |
| Note: Excludes suspension cable and hardware.   |        |       |
| 23 31 16 23-0007 EA 20" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....  | 290.77 | 24.33 |
| Note: Excludes suspension cable and hardware.   |        |       |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 16 23-0008 EA 20" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware. | 415.24                    | 32.44                   |
| 23 31 16 23-0009 EA 24" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware.  | 340.50                    | 31.42                   |
| 23 31 16 23-0010 EA 24" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware. | 477.63                    | 41.56                   |
| 23 31 16 23-0011 EA 28" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware.  | 380.38                    | 35.99                   |
| 23 31 16 23-0012 EA 28" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware. | 567.08                    | 48.15                   |
| 23 31 16 23-0013 EA 32" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware.  | 418.74                    | 40.04                   |
| 23 31 16 23-0014 EA 32" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware. | 632.39                    | 53.21                   |
| 23 31 16 23-0015 EA 36" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware.  | 457.34                    | 45.62                   |
| 23 31 16 23-0016 EA 36" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents .....<br>Note: Excludes suspension cable and hardware. | 729.26                    | 60.82                   |
| <b>23 31 16 23-0017 Heavy Duty Fabric Duct With Vents</b> <small>(23 31 16 23-0001)</small>  |                           |                         |
| 23 31 16 23-0018 EA 12" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 520.64                    | 14.19                   |
| 23 31 16 23-0019 EA 16" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 583.03                    | 23.31                   |
| 23 31 16 23-0020 EA 20" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 656.29                    | 32.44                   |
| 23 31 16 23-0021 EA 24" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 731.71                    | 41.56                   |
| 23 31 16 23-0022 EA 28" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 879.79                    | 48.15                   |
| 23 31 16 23-0023 EA 32" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 945.10                    | 53.21                   |
| 23 31 16 23-0024 EA 36" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents .....<br>Note: Excludes suspension cable and hardware.    | 1,068.03                  | 60.82                   |
| <b>23 31 16 23-0025 Heavy Duty Fabric Duct 90 Degree Elbow</b> <small>(23 31 16 23-0001)</small>   |                           |                         |
| 23 31 16 23-0026 EA 12" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 391.26                    | 15.21                   |
| 23 31 16 23-0027 EA 16" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 442.78                    | 24.33                   |
| 23 31 16 23-0028 EA 20" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 594.42                    | 26.36                   |
| 23 31 16 23-0029 EA 24" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 728.49                    | 35.48                   |
| 23 31 16 23-0030 EA 28" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 916.67                    | 39.53                   |
| 23 31 16 23-0031 EA 32" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 1,138.05                  | 43.08                   |
| 23 31 16 23-0032 EA 36" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 1,292.50                  | 48.15                   |
| <b>23 31 16 23-0033 Heavy Duty Fabric Duct 45 Degree Elbow</b> <small>(23 31 16 23-0001)</small>   |                           |                         |
| 23 31 16 23-0034 EA 12" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 302.22                    | 15.21                   |
| 23 31 16 23-0035 EA 16" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 360.26                    | 24.33                   |
| 23 31 16 23-0036 EA 20" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 403.32                    | 26.36                   |
| 23 31 16 23-0037 EA 24" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 474.41                    | 35.48                   |
| 23 31 16 23-0038 EA 28" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 547.50                    | 39.53                   |
| 23 31 16 23-0039 EA 32" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 653.79                    | 43.08                   |
| 23 31 16 23-0040 EA 36" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow .....<br>Note: Excludes suspension cable and hardware.          | 745.15                    | 48.15                   |
| <b>23 31 16 23-0041 Heavy Duty Fabric Duct Tee</b> <small>(23 31 16 23-0001)</small>   |                           |                         |
| 23 31 16 23-0042 EA 16" x 12" x 12" Gray Heavy Duty Fabric Duct Tee .....<br>Note: Excludes suspension cable and hardware.                   | 954.34                    | 35.48                   |
| 23 31 16 23-0043 EA 20" x 16" x 16" Gray Heavy Duty Fabric Duct Tee .....<br>Note: Excludes suspension cable and hardware.                   | 1,005.45                  | 38.02                   |
| 23 31 16 23-0044 EA 24" x 16" x 16" Gray Heavy Duty Fabric Duct Tee .....<br>Note: Excludes suspension cable and hardware.                   | 1,097.49                  | 51.19                   |
| 23 31 16 23-0045 EA 28" x 20" x 20" Gray Heavy Duty Fabric Duct Tee .....<br>Note: Excludes suspension cable and hardware.                   | 1,157.19                  | 57.28                   |
| 23 31 16 23-0046 EA 32" x 24" x 24" Gray Heavy Duty Fabric Duct Tee .....<br>Note: Excludes suspension cable and hardware.                   | 1,202.95                  | 62.34                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 31 16 23-0047 EA 36" x 28" x 28" Gray Heavy Duty Fabric Duct Tee.....<br>Note: Excludes suspension cable and hardware.  | 1,265.06                  | 69.94                   |
| <b>23 31 16 23-0048 Heavy Duty Fabric Duct Inlets (23 31 16 23-0001)</b>   |                           |                         |
| 23 31 16 23-0049 EA 12" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 161.07                    | 15.21                   |
| 23 31 16 23-0050 EA 16" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 195.22                    | 24.33                   |
| 23 31 16 23-0051 EA 20" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 210.05                    | 26.36                   |
| 23 31 16 23-0052 EA 24" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 246.39                    | 35.48                   |
| 23 31 16 23-0053 EA 28" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 265.19                    | 39.53                   |
| 23 31 16 23-0054 EA 32" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 284.62                    | 43.08                   |
| 23 31 16 23-0055 EA 36" Diameter Gray Heavy Duty Fabric Duct Transition Inlet.....<br>Note: Excludes suspension cable and hardware.  | 313.00                    | 48.15                   |
| <b>23 31 16 23-0056 Heavy Duty Fabric Duct Cap (23 31 16 23-0001)</b>  |                           |                         |
| 23 31 16 23-0057 EA 12" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 94.85                     | 9.13                    |
| 23 31 16 23-0058 EA 16" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 122.61                    | 14.70                   |
| 23 31 16 23-0059 EA 20" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 143.06                    | 15.71                   |
| 23 31 16 23-0060 EA 24" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 199.03                    | 21.29                   |
| 23 31 16 23-0061 EA 28" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 237.11                    | 23.82                   |
| 23 31 16 23-0062 EA 32" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 293.20                    | 25.85                   |
| 23 31 16 23-0063 EA 36" Diameter Gray Heavy Duty Fabric Duct End Cap.....<br>Note: Excludes suspension cable and hardware.   | 330.65                    | 28.89                   |
| <b>23 31 16 23-0064 Heavy Duty Fabric Duct Suspension Hardware (23 31 16 23-0001)</b>  |                           |                         |
| 23 31 16 23-0065 EA 12 To 20 Inch Diameter Ducts Fixing Strap With Galvanized Hardware.....<br>Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.      | 41.51                     | 7.68                    |
| 23 31 16 23-0066 EA 20 To 36 Inch Diameter Ducts Fixing Strap With Galvanized Hardware.....<br>Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.      | 64.32                     | 11.52                   |
| 23 31 16 23-0067 EA Galvanized Cable Locks For Horizontal Cables.....<br>Note: Requires two (2) cable locks per support point or per stretcher.  | 16.29                     | 3.84                    |
| 23 31 16 23-0068 LF Galvanized Plastic Coated Cable For Fabric Duct.....<br>Note: Excludes anchor bolts or anchors.  | 0.85                      | 0.15                    |
| 23 31 16 23-0069 EA Galvanized Stretcher For Straight Fabric Duct Runs.....  | 36.71                     | 7.68                    |
| 23 31 16 23-0070 EA 12 To 20 Inch Diameter Ducts Fixing Strap With Stainless Steel Hardware.....<br>Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct. | 70.35                     | 7.68                    |
| 23 31 16 23-0071 EA 20 To 36 Inch Diameter Ducts Fixing Strap With Stainless Steel Hardware.....<br>Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct. | 97.11                     | 11.52                   |
| 23 31 16 23-0072 EA Stainless Steel Cable Locks For Horizontal Cables.....<br>Note: Requires two (2) cable locks per support point or per stretcher.   | 20.35                     | 3.84                    |
| 23 31 16 23-0073 LF Stainless Steel Plastic Coated Cable For Fabric Duct.....<br>Note: Excludes anchor bolts or anchors.   | 2.50                      | 0.15                    |
| 23 31 16 23-0074 EA Stainless Steel Stretcher For Straight Fabric Duct Runs.....   | 47.22                     | 7.68                    |
| <b>23 33 Air Duct Accessories (23 30)</b>  |                           |                         |
| <b>23 33 13 Dampers (23 33)</b>  |                           |                         |
| <b>23 33 13 13 Volume-Control Dampers (23 33 13)</b>   |                           |                         |
| <b>23 33 13 13-0001 Radial Opposed Blade Damper Steel Construction (Ruskin CDR) (23 33 13 13)</b>  |                           |                         |
| 23 33 13 13-0002 EA 6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....<br>For Stainless Steel, Add 106.08<br>For Parallel Blade Damper, Add 32.64                         | 129.21                    | 12.28                   |
| 23 33 13 13-0003 EA 7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....<br>For Stainless Steel, Add 107.61<br>For Parallel Blade Damper, Add 33.11                         | 138.01                    | 13.80                   |
| 23 33 13 13-0004 EA 8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....<br>For Stainless Steel, Add 108.75<br>For Parallel Blade Damper, Add 33.46                         | 147.87                    | 15.34                   |
| 23 33 13 13-0005 EA 10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....<br>For Stainless Steel, Add 115.54<br>For Parallel Blade Damper, Add 35.55                        | 159.68                    | 18.41                   |
| 23 33 13 13-0006 EA 12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....<br>For Stainless Steel, Add 122.34<br>For Parallel Blade Damper, Add 37.64                        | 173.01                    | 19.94                   |
| 23 33 13 13-0007 EA 14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....<br>For Stainless Steel, Add 156.33<br>For Parallel Blade Damper, Add 48.10                        | 206.54                    | 21.48                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 13-0008 EA 15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 225.92                    | 23.01                   |
| For Stainless Steel, Add  | 169.92                    |                         |
| For Parallel Blade Damper, Add  | 52.28                     |                         |
| 23 33 13 13-0009 EA 16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 238.18                    | 26.08                   |
| For Stainless Steel, Add  | 176.70                    |                         |
| For Parallel Blade Damper, Add  | 54.37                     |                         |
| 23 33 13 13-0010 EA 18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 262.07                    | 27.61                   |
| For Stainless Steel, Add  | 197.11                    |                         |
| For Parallel Blade Damper, Add  | 60.65                     |                         |
| 23 33 13 13-0011 EA 20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 308.27                    | 30.68                   |
| For Stainless Steel, Add  | 244.69                    |                         |
| For Parallel Blade Damper, Add  | 75.29                     |                         |
| 23 33 13 13-0012 EA 24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 339.84                    | 30.68                   |
| For Stainless Steel, Add  | 278.63                    |                         |
| For Parallel Blade Damper, Add  | 85.73                     |                         |
| 23 33 13 13-0013 EA 30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 388.99                    | 35.28                   |
| For Stainless Steel, Add  | 326.21                    |                         |
| For Parallel Blade Damper, Add  | 100.37                    |                         |
| 23 33 13 13-0014 EA 36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated ..... | 418.76                    | 36.82                   |
| For Stainless Steel, Add  | 355.46                    |                         |
| For Parallel Blade Damper, Add  | 109.37                    |                         |
| <b>23 33 13 13-0015 Rectangular Opposed Blade Damper (Ruskin CD) (23 33 13 13)</b>                            |                           |                         |
| 23 33 13 13-0016 EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....      | 146.39                    | 17.05                   |
| For Stainless Steel, Add  | 123.83                    |                         |
| For Parallel Blade Damper, Add  | 38.10                     |                         |
| 23 33 13 13-0017 EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....      | 155.46                    | 17.81                   |
| For Stainless Steel, Add  | 132.61                    |                         |
| For Parallel Blade Damper, Add  | 40.80                     |                         |
| 23 33 13 13-0018 EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....      | 162.58                    | 17.97                   |
| For Stainless Steel, Add  | 141.47                    |                         |
| For Parallel Blade Damper, Add  | 43.53                     |                         |
| 23 33 13 13-0019 EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 162.58                    | 17.97                   |
| For Stainless Steel, Add  | 141.47                    |                         |
| For Parallel Blade Damper, Add  | 43.53                     |                         |
| 23 33 13 13-0020 EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 170.93                    | 18.44                   |
| For Stainless Steel, Add  | 150.32                    |                         |
| For Parallel Blade Damper, Add  | 46.25                     |                         |
| 23 33 13 13-0021 EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 190.65                    | 20.43                   |
| For Stainless Steel, Add  | 167.97                    |                         |
| For Parallel Blade Damper, Add  | 51.68                     |                         |
| 23 33 13 13-0022 EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 170.93                    | 18.44                   |
| For Stainless Steel, Add  | 150.32                    |                         |
| For Parallel Blade Damper, Add  | 46.25                     |                         |
| 23 33 13 13-0023 EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 187.57                    | 19.50                   |
| For Stainless Steel, Add  | 167.97                    |                         |
| For Parallel Blade Damper, Add  | 51.68                     |                         |
| 23 33 13 13-0024 EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 197.50                    | 20.43                   |
| For Stainless Steel, Add  | 176.88                    |                         |
| For Parallel Blade Damper, Add  | 54.42                     |                         |
| 23 33 13 13-0025 EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 218.49                    | 23.04                   |
| For Stainless Steel, Add  | 194.18                    |                         |
| For Parallel Blade Damper, Add  | 59.75                     |                         |
| 23 33 13 13-0026 EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 184.21                    | 19.50                   |
| For Stainless Steel, Add  | 163.61                    |                         |
| For Parallel Blade Damper, Add  | 50.34                     |                         |
| 23 33 13 13-0027 EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 197.50                    | 20.43                   |
| For Stainless Steel, Add  | 176.88                    |                         |
| For Parallel Blade Damper, Add  | 54.42                     |                         |
| 23 33 13 13-0028 EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 207.37                    | 21.50                   |
| For Stainless Steel, Add  | 185.73                    |                         |
| For Parallel Blade Damper, Add  | 57.15                     |                         |
| 23 33 13 13-0029 EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 218.80                    | 23.04                   |
| For Stainless Steel, Add  | 194.58                    |                         |
| For Parallel Blade Damper, Add  | 59.87                     |                         |
| 23 33 13 13-0030 EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 243.46                    | 25.65                   |
| For Stainless Steel, Add  | 216.66                    |                         |
| For Parallel Blade Damper, Add  | 66.66                     |                         |
| 23 33 13 13-0031 EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 197.50                    | 20.43                   |
| For Stainless Steel, Add  | 176.88                    |                         |
| For Parallel Blade Damper, Add  | 54.42                     |                         |
| 23 33 13 13-0032 EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....     | 208.91                    | 21.96                   |
| For Stainless Steel, Add  | 185.73                    |                         |
| For Parallel Blade Damper, Add  | 57.15                     |                         |
| 23 33 13 13-0033 EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 221.86                    | 24.11                   |
| For Stainless Steel, Add  | 194.58                    |                         |
| For Parallel Blade Damper, Add  | 59.87                     |                         |
| 23 33 13 13-0034 EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 233.25                    | 25.65                   |
| For Stainless Steel, Add  | 203.39                    |                         |
| For Parallel Blade Damper, Add  | 62.58                     |                         |
| 23 33 13 13-0035 EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....    | 258.00                    | 28.11                   |
| For Stainless Steel, Add  | 225.58                    |                         |
| For Parallel Blade Damper, Add  | 69.41                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 13-0036 EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 282.66                    | 30.72                   |
| For Stainless Steel, Add   | 247.65                    |                         |
| For Parallel Blade Damper, Add   | 76.20                     |                         |
| 23 33 13 13-0037 EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 207.37                    | 21.50                   |
| For Stainless Steel, Add   | 185.73                    |                         |
| For Parallel Blade Damper, Add   | 57.15                     |                         |
| 23 33 13 13-0038 EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 222.16                    | 23.04                   |
| For Stainless Steel, Add   | 198.95                    |                         |
| For Parallel Blade Damper, Add   | 61.22                     |                         |
| 23 33 13 13-0039 EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 240.10                    | 25.65                   |
| For Stainless Steel, Add   | 212.29                    |                         |
| For Parallel Blade Damper, Add   | 65.32                     |                         |
| 23 33 13 13-0040 EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 264.81                    | 28.11                   |
| For Stainless Steel, Add   | 234.43                    |                         |
| For Parallel Blade Damper, Add   | 72.13                     |                         |
| 23 33 13 13-0041 EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 286.06                    | 30.72                   |
| For Stainless Steel, Add   | 252.07                    |                         |
| For Parallel Blade Damper, Add   | 77.56                     |                         |
| 23 33 13 13-0042 EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 301.14                    | 33.17                   |
| For Stainless Steel, Add   | 261.69                    |                         |
| For Parallel Blade Damper, Add   | 80.52                     |                         |
| 23 33 13 13-0043 EA 18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 318.57                    | 35.78                   |
| For Stainless Steel, Add   | 274.37                    |                         |
| For Parallel Blade Damper, Add   | 84.42                     |                         |
| 23 33 13 13-0044 EA 20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 205.20                    | 23.04                   |
| For Stainless Steel, Add   | 176.90                    |                         |
| For Parallel Blade Damper, Add   | 54.43                     |                         |
| 23 33 13 13-0045 EA 20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 225.22                    | 25.65                   |
| For Stainless Steel, Add   | 192.95                    |                         |
| For Parallel Blade Damper, Add   | 59.37                     |                         |
| 23 33 13 13-0046 EA 20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 245.28                    | 28.11                   |
| For Stainless Steel, Add   | 209.04                    |                         |
| For Parallel Blade Damper, Add   | 64.32                     |                         |
| 23 33 13 13-0047 EA 20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 277.72                    | 30.72                   |
| For Stainless Steel, Add   | 241.23                    |                         |
| For Parallel Blade Damper, Add   | 74.22                     |                         |
| 23 33 13 13-0048 EA 20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 294.69                    | 33.17                   |
| For Stainless Steel, Add   | 253.31                    |                         |
| For Parallel Blade Damper, Add   | 77.94                     |                         |
| 23 33 13 13-0049 EA 20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 311.66                    | 35.78                   |
| For Stainless Steel, Add   | 265.38                    |                         |
| For Parallel Blade Damper, Add   | 81.66                     |                         |
| 23 33 13 13-0050 EA 20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 331.67                    | 38.40                   |
| For Stainless Steel, Add   | 281.41                    |                         |
| For Parallel Blade Damper, Add   | 86.59                     |                         |
| 23 33 13 13-0051 EA 20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 351.67                    | 40.85                   |
| For Stainless Steel, Add   | 297.45                    |                         |
| For Parallel Blade Damper, Add   | 91.52                     |                         |
| 23 33 13 13-0052 EA 24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 231.41                    | 25.65                   |
| For Stainless Steel, Add   | 200.99                    |                         |
| For Parallel Blade Damper, Add   | 61.84                     |                         |
| 23 33 13 13-0053 EA 24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 257.66                    | 28.11                   |
| For Stainless Steel, Add   | 225.13                    |                         |
| For Parallel Blade Damper, Add   | 69.27                     |                         |
| 23 33 13 13-0054 EA 24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 277.72                    | 30.72                   |
| For Stainless Steel, Add   | 241.23                    |                         |
| For Parallel Blade Damper, Add   | 74.22                     |                         |
| 23 33 13 13-0055 EA 24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 303.98                    | 33.17                   |
| For Stainless Steel, Add   | 265.38                    |                         |
| For Parallel Blade Damper, Add   | 81.66                     |                         |
| 23 33 13 13-0056 EA 24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 320.90                    | 35.78                   |
| For Stainless Steel, Add   | 277.39                    |                         |
| For Parallel Blade Damper, Add   | 85.35                     |                         |
| 23 33 13 13-0057 EA 24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 337.87                    | 38.40                   |
| For Stainless Steel, Add   | 289.47                    |                         |
| For Parallel Blade Damper, Add   | 89.07                     |                         |
| 23 33 13 13-0058 EA 24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 364.06                    | 40.85                   |
| For Stainless Steel, Add   | 313.56                    |                         |
| For Parallel Blade Damper, Add   | 96.48                     |                         |
| 23 33 13 13-0059 EA 24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 397.95                    | 46.08                   |
| For Stainless Steel, Add   | 337.65                    |                         |
| For Parallel Blade Damper, Add   | 103.89                    |                         |
| 23 33 13 13-0060 EA 24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 438.11                    | 51.14                   |
| For Stainless Steel, Add   | 369.89                    |                         |
| For Parallel Blade Damper, Add   | 113.81                    |                         |
| 23 33 13 13-0061 EA 28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 257.66                    | 28.11                   |
| For Stainless Steel, Add   | 225.13                    |                         |
| For Parallel Blade Damper, Add   | 69.27                     |                         |
| 23 33 13 13-0062 EA 28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 277.72                    | 30.72                   |
| For Stainless Steel, Add   | 241.23                    |                         |
| For Parallel Blade Damper, Add   | 74.22                     |                         |
| 23 33 13 13-0063 EA 28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 303.98                    | 33.17                   |
| For Stainless Steel, Add   | 265.38                    |                         |
| For Parallel Blade Damper, Add   | 81.66                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 13-0064 EA 28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 323.99                    | 35.78                   |
| For Stainless Steel, Add   | 281.41                    |                         |
| For Parallel Blade Damper, Add   | 86.59                     |                         |
| 23 33 13 13-0065 EA 28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 347.11                    | 38.40                   |
| For Stainless Steel, Add   | 301.48                    |                         |
| For Parallel Blade Damper, Add   | 92.76                     |                         |
| 23 33 13 13-0066 EA 28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 370.20                    | 40.85                   |
| For Stainless Steel, Add   | 321.54                    |                         |
| For Parallel Blade Damper, Add   | 98.94                     |                         |
| 23 33 13 13-0067 EA 28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 404.14                    | 46.08                   |
| For Stainless Steel, Add   | 345.70                    |                         |
| For Parallel Blade Damper, Add   | 106.37                    |                         |
| 23 33 13 13-0068 EA 28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 438.11                    | 51.14                   |
| For Stainless Steel, Add   | 369.89                    |                         |
| For Parallel Blade Damper, Add   | 113.81                    |                         |
| 23 33 13 13-0069 EA 28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 482.86                    | 53.76                   |
| For Stainless Steel, Add   | 418.08                    |                         |
| For Parallel Blade Damper, Add   | 128.64                    |                         |
| 23 33 13 13-0070 EA 28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 529.13                    | 58.82                   |
| For Stainless Steel, Add   | 458.26                    |                         |
| For Parallel Blade Damper, Add   | 141.00                    |                         |
| 23 33 13 13-0071 EA 32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 296.30                    | 30.72                   |
| For Stainless Steel, Add   | 265.38                    |                         |
| For Parallel Blade Damper, Add   | 81.66                     |                         |
| 23 33 13 13-0072 EA 32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 310.12                    | 33.17                   |
| For Stainless Steel, Add   | 273.36                    |                         |
| For Parallel Blade Damper, Add   | 84.11                     |                         |
| 23 33 13 13-0073 EA 32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 323.99                    | 35.78                   |
| For Stainless Steel, Add   | 281.41                    |                         |
| For Parallel Blade Damper, Add   | 86.59                     |                         |
| 23 33 13 13-0074 EA 32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 344.01                    | 38.40                   |
| For Stainless Steel, Add   | 297.45                    |                         |
| For Parallel Blade Damper, Add   | 91.52                     |                         |
| 23 33 13 13-0075 EA 32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 371.41                    | 40.85                   |
| For Stainless Steel, Add   | 323.12                    |                         |
| For Parallel Blade Damper, Add   | 99.42                     |                         |
| 23 33 13 13-0076 EA 32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 404.14                    | 46.08                   |
| For Stainless Steel, Add   | 345.70                    |                         |
| For Parallel Blade Damper, Add   | 106.37                    |                         |
| 23 33 13 13-0077 EA 32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 444.31                    | 51.14                   |
| For Stainless Steel, Add   | 377.95                    |                         |
| For Parallel Blade Damper, Add   | 116.29                    |                         |
| 23 33 13 13-0078 EA 32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 484.39                    | 56.21                   |
| For Stainless Steel, Add   | 410.09                    |                         |
| For Parallel Blade Damper, Add   | 126.18                    |                         |
| 23 33 13 13-0079 EA 32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 529.13                    | 58.82                   |
| For Stainless Steel, Add   | 458.26                    |                         |
| For Parallel Blade Damper, Add   | 141.00                    |                         |
| 23 33 13 13-0080 EA 32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 584.77                    | 62.98                   |
| For Stainless Steel, Add   | 514.61                    |                         |
| For Parallel Blade Damper, Add   | 158.34                    |                         |
| 23 33 13 13-0081 EA 32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 644.99                    | 66.50                   |
| For Stainless Steel, Add   | 578.93                    |                         |
| For Parallel Blade Damper, Add   | 178.13                    |                         |
| 23 33 13 13-0082 EA 36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 322.51                    | 33.17                   |
| For Stainless Steel, Add   | 289.47                    |                         |
| For Parallel Blade Damper, Add   | 89.07                     |                         |
| 23 33 13 13-0083 EA 36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 342.53                    | 35.78                   |
| For Stainless Steel, Add   | 305.51                    |                         |
| For Parallel Blade Damper, Add   | 94.00                     |                         |
| 23 33 13 13-0084 EA 36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 362.54                    | 38.40                   |
| For Stainless Steel, Add   | 321.54                    |                         |
| For Parallel Blade Damper, Add   | 98.94                     |                         |
| 23 33 13 13-0085 EA 36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 388.78                    | 40.85                   |
| For Stainless Steel, Add   | 345.70                    |                         |
| For Parallel Blade Damper, Add   | 106.37                    |                         |
| 23 33 13 13-0086 EA 36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 413.47                    | 46.08                   |
| For Stainless Steel, Add   | 357.83                    |                         |
| For Parallel Blade Damper, Add   | 110.10                    |                         |
| 23 33 13 13-0087 EA 36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 430.43                    | 48.53                   |
| For Stainless Steel, Add   | 369.89                    |                         |
| For Parallel Blade Damper, Add   | 113.81                    |                         |
| 23 33 13 13-0088 EA 36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 484.39                    | 56.21                   |
| For Stainless Steel, Add   | 410.09                    |                         |
| For Parallel Blade Damper, Add   | 126.18                    |                         |
| 23 33 13 13-0089 EA 36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 530.62                    | 61.44                   |
| For Stainless Steel, Add   | 450.22                    |                         |
| For Parallel Blade Damper, Add   | 138.53                    |                         |
| 23 33 13 13-0090 EA 36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 573.90                    | 63.43                   |
| For Stainless Steel, Add   | 498.50                    |                         |
| For Parallel Blade Damper, Add   | 153.38                    |                         |
| 23 33 13 13-0091 EA 36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 637.19                    | 68.04                   |
| For Stainless Steel, Add   | 562.78                    |                         |
| For Parallel Blade Damper, Add   | 173.16                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 13-0092 EA 36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 691.22                    | 71.57                   |
| For Stainless Steel, Add   | 619.06                    |                         |
| For Parallel Blade Damper, Add   | 190.48                    |                         |
| 23 33 13 13-0093 EA 36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 748.39                    | 74.18                   |
| For Stainless Steel, Add   | 683.40                    |                         |
| For Parallel Blade Damper, Add   | 210.28                    |                         |
| 23 33 13 13-0094 EA 40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 336.33                    | 38.40                   |
| For Stainless Steel, Add   | 297.45                    |                         |
| For Parallel Blade Damper, Add   | 91.52                     |                         |
| 23 33 13 13-0095 EA 40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 368.74                    | 40.85                   |
| For Stainless Steel, Add   | 329.60                    |                         |
| For Parallel Blade Damper, Add   | 101.42                    |                         |
| 23 33 13 13-0096 EA 40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 382.59                    | 43.46                   |
| For Stainless Steel, Add   | 337.65                    |                         |
| For Parallel Blade Damper, Add   | 103.89                    |                         |
| 23 33 13 13-0097 EA 40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 396.46                    | 46.08                   |
| For Stainless Steel, Add   | 345.70                    |                         |
| For Parallel Blade Damper, Add   | 106.37                    |                         |
| 23 33 13 13-0098 EA 40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 433.49                    | 48.53                   |
| For Stainless Steel, Add   | 373.87                    |                         |
| For Parallel Blade Damper, Add   | 115.04                    |                         |
| 23 33 13 13-0099 EA 40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 462.84                    | 51.14                   |
| For Stainless Steel, Add   | 402.04                    |                         |
| For Parallel Blade Damper, Add   | 123.70                    |                         |
| 23 33 13 13-0100 EA 40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 510.60                    | 58.82                   |
| For Stainless Steel, Add   | 434.17                    |                         |
| For Parallel Blade Damper, Add   | 133.59                    |                         |
| 23 33 13 13-0101 EA 40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 550.72                    | 63.89                   |
| For Stainless Steel, Add   | 466.36                    |                         |
| For Parallel Blade Damper, Add   | 143.50                    |                         |
| 23 33 13 13-0102 EA 40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 600.13                    | 68.04                   |
| For Stainless Steel, Add   | 514.61                    |                         |
| For Parallel Blade Damper, Add   | 158.34                    |                         |
| 23 33 13 13-0103 EA 40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 678.88                    | 71.57                   |
| For Stainless Steel, Add   | 603.02                    |                         |
| For Parallel Blade Damper, Add   | 185.54                    |                         |
| 23 33 13 13-0104 EA 40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 728.22                    | 75.72                   |
| For Stainless Steel, Add   | 651.20                    |                         |
| For Parallel Blade Damper, Add   | 200.37                    |                         |
| 23 33 13 13-0105 EA 40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 802.44                    | 77.71                   |
| For Stainless Steel, Add   | 739.67                    |                         |
| For Parallel Blade Damper, Add   | 227.59                    |                         |
| 23 33 13 13-0106 EA 40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 876.59                    | 81.86                   |
| For Stainless Steel, Add   | 820.11                    |                         |
| For Parallel Blade Damper, Add   | 252.34                    |                         |
| 23 33 13 13-0107 EA 44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 356.40                    | 38.40                   |
| For Stainless Steel, Add   | 313.56                    |                         |
| For Parallel Blade Damper, Add   | 96.48                     |                         |
| 23 33 13 13-0108 EA 44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 388.78                    | 40.85                   |
| For Stainless Steel, Add   | 345.70                    |                         |
| For Parallel Blade Damper, Add   | 106.37                    |                         |
| 23 33 13 13-0109 EA 44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 415.07                    | 43.46                   |
| For Stainless Steel, Add   | 369.89                    |                         |
| For Parallel Blade Damper, Add   | 113.81                    |                         |
| 23 33 13 13-0110 EA 44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 428.95                    | 46.08                   |
| For Stainless Steel, Add   | 377.95                    |                         |
| For Parallel Blade Damper, Add   | 116.29                    |                         |
| 23 33 13 13-0111 EA 44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 461.35                    | 48.53                   |
| For Stainless Steel, Add   | 410.09                    |                         |
| For Parallel Blade Damper, Add   | 126.18                    |                         |
| 23 33 13 13-0112 EA 44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 493.75                    | 51.14                   |
| For Stainless Steel, Add   | 442.22                    |                         |
| For Parallel Blade Damper, Add   | 136.07                    |                         |
| 23 33 13 13-0113 EA 44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 555.42                    | 61.44                   |
| For Stainless Steel, Add   | 482.46                    |                         |
| For Parallel Blade Damper, Add   | 148.45                    |                         |
| 23 33 13 13-0114 EA 44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 601.65                    | 66.50                   |
| For Stainless Steel, Add   | 522.59                    |                         |
| For Parallel Blade Damper, Add   | 160.80                    |                         |
| 23 33 13 13-0115 EA 44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 678.88                    | 71.57                   |
| For Stainless Steel, Add   | 603.02                    |                         |
| For Parallel Blade Damper, Add   | 185.54                    |                         |
| 23 33 13 13-0116 EA 44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 749.92                    | 76.80                   |
| For Stainless Steel, Add   | 675.40                    |                         |
| For Parallel Blade Damper, Add   | 207.82                    |                         |
| 23 33 13 13-0117 EA 44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 827.06                    | 81.86                   |
| For Stainless Steel, Add   | 755.72                    |                         |
| For Parallel Blade Damper, Add   | 232.53                    |                         |
| 23 33 13 13-0118 EA 44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 890.42                    | 84.32                   |
| For Stainless Steel, Add   | 828.10                    |                         |
| For Parallel Blade Damper, Add   | 254.80                    |                         |
| 23 33 13 13-0119 EA 44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 953.78                    | 86.93                   |
| For Stainless Steel, Add   | 900.48                    |                         |
| For Parallel Blade Damper, Add   | 277.07                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 23 33 13 | 13-0120 | EA  | 44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 1,017.13               | 89.54                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 972.86                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 299.34                 |                      |
| 23 33 13 | 13-0121 | EA  | 48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation  | 382.59                 | 40.85                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 337.65                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 103.89                 |                      |
| 23 33 13 | 13-0122 | EA  | 48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation  | 415.07                 | 43.46                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 369.89                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 113.81                 |                      |
| 23 33 13 | 13-0123 | EA  | 48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 428.95                 | 46.08                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 377.95                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 116.29                 |                      |
| 23 33 13 | 13-0124 | EA  | 48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 462.84                 | 51.14                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 402.04                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 123.70                 |                      |
| 23 33 13 | 13-0125 | EA  | 48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 502.92                 | 56.21                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 434.17                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 133.59                 |                      |
| 23 33 13 | 13-0126 | EA  | 48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 543.04                 | 61.44                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 466.36                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 143.50                 |                      |
| 23 33 13 | 13-0127 | EA  | 48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 595.51                 | 66.50                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 514.61                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 158.34                 |                      |
| 23 33 13 | 13-0128 | EA  | 48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 647.93                 | 71.57                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 562.78                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 173.16                 |                      |
| 23 33 13 | 13-0129 | EA  | 48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 718.96                 | 76.80                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 635.15                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 195.43                 |                      |
| 23 33 13 | 13-0130 | EA  | 48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 802.34                 | 81.86                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 723.58                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 222.64                 |                      |
| 23 33 13 | 13-0131 | EA  | 48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 865.74                 | 84.32                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 796.02                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 244.93                 |                      |
| 23 33 13 | 13-0132 | EA  | 48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 947.59                 | 86.93                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 892.44                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 274.60                 |                      |
| 23 33 13 | 13-0133 | EA  | 48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 1,018.62               | 92.00                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 964.81                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 296.86                 |                      |
| 23 33 13 | 13-0134 | EA  | 48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 1,100.51               | 94.61                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 1,061.28               |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 326.55                 |                      |
| 23 33 13 | 13-0135 | EA  | 48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 1,173.04               | 102.29               |
|          |         |     | <i>For Stainless Steel, Add</i>  | 1,125.62               |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 346.34                 |                      |
| 23 33 13 | 13-0136 | EA  | 52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation  | 408.88                 | 43.46                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 361.84                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 111.34                 |                      |
| 23 33 13 | 13-0137 | EA  | 52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation  | 441.28                 | 46.08                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 393.98                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 121.22                 |                      |
| 23 33 13 | 13-0138 | EA  | 52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 481.37                 | 51.14                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 426.13                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 131.12                 |                      |
| 23 33 13 | 13-0139 | EA  | 52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 502.92                 | 56.21                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 434.17                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 133.59                 |                      |
| 23 33 13 | 13-0140 | EA  | 52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 546.14                 | 61.44                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 470.39                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 144.74                 |                      |
| 23 33 13 | 13-0141 | EA  | 52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 589.31                 | 66.50                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 506.55                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 155.86                 |                      |
| 23 33 13 | 13-0142 | EA  | 52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 641.78                 | 71.57                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 554.79                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 170.70                 |                      |
| 23 33 13 | 13-0143 | EA  | 52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 694.24                 | 76.80                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 603.02                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 185.54                 |                      |
| 23 33 13 | 13-0144 | EA  | 52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 765.28                 | 81.86                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 675.40                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 207.82                 |                      |
| 23 33 13 | 13-0145 | EA  | 52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 854.80                 | 86.93                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 771.81                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 237.48                 |                      |
| 23 33 13 | 13-0146 | EA  | 52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 924.31                 | 89.54                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 852.19                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 262.21                 |                      |
| 23 33 13 | 13-0147 | EA  | 52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation | 1,012.43               | 92.00                |
|          |         |     | <i>For Stainless Steel, Add</i>  | 956.76                 |                      |
|          |         |     | <i>For Parallel Blade Damper, Add</i>  | 294.39                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 13-0148 EA 52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,101.96                  | 97.22                   |
| <i>For Stainless Steel, Add</i>  | 1,053.18                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 324.06                    |                         |
| 23 33 13 13-0149 EA 52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,173.04                  | 102.29                  |
| <i>For Stainless Steel, Add</i>  | 1,125.62                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 346.34                    |                         |
| 23 33 13 13-0150 EA 52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,270.28                  | 109.97                  |
| <i>For Stainless Steel, Add</i>  | 1,222.08                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 376.02                    |                         |
| 23 33 13 13-0151 EA 52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,347.49                  | 115.03                  |
| <i>For Stainless Steel, Add</i>  | 1,302.51                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 400.77                    |                         |
| 23 33 13 13-0152 EA 56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 428.95                    | 46.08                   |
| <i>For Stainless Steel, Add</i>  | 377.95                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 116.29                    |                         |
| 23 33 13 13-0153 EA 56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 475.18                    | 51.14                   |
| <i>For Stainless Steel, Add</i>  | 418.08                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 128.64                    |                         |
| 23 33 13 13-0154 EA 56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 509.11                    | 56.21                   |
| <i>For Stainless Steel, Add</i>  | 442.22                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 136.07                    |                         |
| 23 33 13 13-0155 EA 56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 530.62                    | 61.44                   |
| <i>For Stainless Steel, Add</i>  | 450.22                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 138.53                    |                         |
| 23 33 13 13-0156 EA 56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 580.03                    | 66.50                   |
| <i>For Stainless Steel, Add</i>  | 494.48                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 152.15                    |                         |
| 23 33 13 13-0157 EA 56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 629.40                    | 71.57                   |
| <i>For Stainless Steel, Add</i>  | 538.69                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 165.75                    |                         |
| 23 33 13 13-0158 EA 56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 678.76                    | 76.80                   |
| <i>For Stainless Steel, Add</i>  | 582.89                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 179.35                    |                         |
| 23 33 13 13-0159 EA 56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 728.13                    | 81.86                   |
| <i>For Stainless Steel, Add</i>  | 627.11                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 192.96                    |                         |
| 23 33 13 13-0160 EA 56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 817.70                    | 86.93                   |
| <i>For Stainless Steel, Add</i>  | 723.58                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 222.64                    |                         |
| 23 33 13 13-0161 EA 56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 899.63                    | 89.54                   |
| <i>For Stainless Steel, Add</i>  | 820.11                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 252.34                    |                         |
| 23 33 13 13-0162 EA 56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 975.33                    | 92.00                   |
| <i>For Stainless Steel, Add</i>  | 908.53                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 279.55                    |                         |
| 23 33 13 13-0163 EA 56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,077.28                  | 97.22                   |
| <i>For Stainless Steel, Add</i>  | 1,021.10                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 314.18                    |                         |
| 23 33 13 13-0164 EA 56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,166.84                  | 102.29                  |
| <i>For Stainless Steel, Add</i>  | 1,117.56                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 343.86                    |                         |
| 23 33 13 13-0165 EA 56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,262.60                  | 107.35                  |
| <i>For Stainless Steel, Add</i>  | 1,222.08                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 376.02                    |                         |
| 23 33 13 13-0166 EA 56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,339.83                  | 112.58                  |
| <i>For Stainless Steel, Add</i>  | 1,302.51                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 400.77                    |                         |
| 23 33 13 13-0167 EA 56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,435.57                  | 117.65                  |
| <i>For Stainless Steel, Add</i>  | 1,407.03                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 432.93                    |                         |
| 23 33 13 13-0168 EA 56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,531.33                  | 122.71                  |
| <i>For Stainless Steel, Add</i>  | 1,511.55                  |                         |
| <i>For Parallel Blade Damper, Add</i>  | 465.09                    |                         |
| 23 33 13 13-0169 EA 60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 462.84                    | 51.14                   |
| <i>For Stainless Steel, Add</i>  | 402.04                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 123.70                    |                         |
| 23 33 13 13-0170 EA 60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....  | 509.11                    | 56.21                   |
| <i>For Stainless Steel, Add</i>  | 442.22                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 136.07                    |                         |
| 23 33 13 13-0171 EA 60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 536.81                    | 61.44                   |
| <i>For Stainless Steel, Add</i>  | 458.26                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 141.00                    |                         |
| 23 33 13 13-0172 EA 60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 558.40                    | 66.50                   |
| <i>For Stainless Steel, Add</i>  | 466.36                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 143.50                    |                         |
| 23 33 13 13-0173 EA 60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 610.87                    | 71.57                   |
| <i>For Stainless Steel, Add</i>  | 514.61                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 158.34                    |                         |
| 23 33 13 13-0174 EA 60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 663.29                    | 76.80                   |
| <i>For Stainless Steel, Add</i>  | 562.78                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 173.16                    |                         |
| 23 33 13 13-0175 EA 60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 718.85                    | 81.86                   |
| <i>For Stainless Steel, Add</i>  | 615.04                    |                         |
| <i>For Parallel Blade Damper, Add</i>  | 189.24                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 13-0176 EA 60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 774.41                    | 86.93                   |
| For Stainless Steel, Add   | 667.30                    |                         |
| For Parallel Blade Damper, Add   | 205.32                    |                         |
| 23 33 13 13-0177 EA 60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 862.48                    | 89.54                   |
| For Stainless Steel, Add   | 771.81                    |                         |
| For Parallel Blade Damper, Add   | 237.48                    |                         |
| 23 33 13 13-0178 EA 60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 944.37                    | 92.00                   |
| For Stainless Steel, Add   | 868.28                    |                         |
| For Parallel Blade Damper, Add   | 267.16                    |                         |
| 23 33 13 13-0179 EA 60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,040.17                  | 97.22                   |
| For Stainless Steel, Add   | 972.86                    |                         |
| For Parallel Blade Damper, Add   | 299.34                    |                         |
| 23 33 13 13-0180 EA 60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,135.93                  | 102.29                  |
| For Stainless Steel, Add   | 1,077.38                  |                         |
| For Parallel Blade Damper, Add   | 331.50                    |                         |
| 23 33 13 13-0181 EA 60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,213.12                  | 107.35                  |
| For Stainless Steel, Add   | 1,157.75                  |                         |
| For Parallel Blade Damper, Add   | 356.23                    |                         |
| 23 33 13 13-0182 EA 60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,327.41                  | 112.58                  |
| For Stainless Steel, Add   | 1,286.36                  |                         |
| For Parallel Blade Damper, Add   | 395.80                    |                         |
| 23 33 13 13-0183 EA 60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,429.34                  | 117.65                  |
| For Stainless Steel, Add   | 1,398.93                  |                         |
| For Parallel Blade Damper, Add   | 430.44                    |                         |
| 23 33 13 13-0184 EA 60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,531.33                  | 122.71                  |
| For Stainless Steel, Add   | 1,511.55                  |                         |
| For Parallel Blade Damper, Add   | 465.09                    |                         |
| 23 33 13 13-0185 EA 60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,620.81                  | 127.94                  |
| For Stainless Steel, Add   | 1,607.91                  |                         |
| For Parallel Blade Damper, Add   | 494.74                    |                         |
| 23 33 13 13-0186 EA 60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation ..... | 1,710.46                  | 133.01                  |
| For Stainless Steel, Add   | 1,704.48                  |                         |
| For Parallel Blade Damper, Add   | 524.46                    |                         |

**23 33 13 16 Fire Dampers (23 33 13)**

**23 33 13 16-0001 Fire Dampers (23 33 13 16)**

|   |        |       |
|---|--------|-------|
| 23 33 13 16-0002 SF Curtain Type, Vertical, Fire Damper ..... | 150.35 | 16.59 |
| For Smoke Damper, Add   | 85.37  |       |
| For Spring Activated Horizontal Mount Operation, Add          | 22.60  |       |
| For Dynamic Damper, Add                                       | 54.23  |       |
| For 3 Hour Rated, Add   | 30.13  |       |
| 23 33 13 16-0003 SF Louver Type, Vertical, Fire Damper .....  | 205.14 | 16.59 |
| For Smoke Damper, Add   | 131.94 |       |
| For Spring Activated Horizontal Mount Operation, Add          | 34.92  |       |
| For Dynamic Damper, Add                                       | 83.82  |       |
| For 3 Hour Rated, Add   | 46.57  |       |

**23 33 13 16-0004 Folding Curtain Fire Dampers (23 33 13 16)**

Note: UL Listed. Air stream 22 gauge galvanized steel construction with fusible link 160 F, gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.

|  |        |       |
|--|--------|-------|
| 23 33 13 16-0005 EA 6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....   | 80.99  | 17.05 |
| For Spring Activated Horizontal Mount Operation, Add   | 6.72   |       |
| For Dynamic Damper, Add  | 16.12  |       |
| For 3 Hour Rated, Add  | 8.96   |       |
| For Cap Of Damper Blades Outside Air Stream, Add   | 7.46   |       |
| 23 33 13 16-0006 EA 8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....   | 85.41  | 17.81 |
| For Spring Activated Horizontal Mount Operation, Add   | 7.19   |       |
| For Dynamic Damper, Add  | 17.26  |       |
| For 3 Hour Rated, Add  | 9.59   |       |
| For Cap Of Damper Blades Outside Air Stream, Add   | 7.99   |       |
| 23 33 13 16-0007 EA 8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....   | 87.86  | 17.97 |
| For Spring Activated Horizontal Mount Operation, Add   | 7.67   |       |
| For Dynamic Damper, Add  | 18.41  |       |
| For 3 Hour Rated, Add  | 10.23  |       |
| For Cap Of Damper Blades Outside Air Stream, Add   | 8.53   |       |
| 23 33 13 16-0008 EA 10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 87.86  | 17.97 |
| For Spring Activated Horizontal Mount Operation, Add   | 7.67   |       |
| For Dynamic Damper, Add  | 18.41  |       |
| For 3 Hour Rated, Add  | 10.23  |       |
| For Cap Of Damper Blades Outside Air Stream, Add   | 8.53   |       |
| 23 33 13 16-0009 EA 10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 91.53  | 18.44 |
| For Spring Activated Horizontal Mount Operation, Add   | 8.15   |       |
| For Dynamic Damper, Add  | 19.56  |       |
| For 3 Hour Rated, Add  | 10.87  |       |
| For Cap Of Damper Blades Outside Air Stream, Add   | 9.06   |       |
| 23 33 13 16-0010 EA 10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 101.93 | 20.43 |
| For Spring Activated Horizontal Mount Operation, Add   | 9.11   |       |
| For Dynamic Damper, Add  | 21.86  |       |
| For 3 Hour Rated, Add  | 12.15  |       |
| For Cap Of Damper Blades Outside Air Stream, Add   | 10.12  |       |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| HVAC Air Distribution                                    | <b>23 30</b> |
| Air Duct Accessories                                     | <b>23 33</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0011 EA 12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 91.53                     | 18.44                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 8.15                      |                         |
| <i>For Dynamic Damper, Add</i>  | 19.56                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 10.87                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 9.06                      |                         |
| 23 33 13 16-0012 EA 12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 98.85                     | 19.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 9.11                      |                         |
| <i>For Dynamic Damper, Add</i>  | 21.86                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 12.15                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 10.12                     |                         |
| 23 33 13 16-0013 EA 12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 104.06                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 9.59                      |                         |
| <i>For Dynamic Damper, Add</i>  | 23.01                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 12.79                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 10.66                     |                         |
| 23 33 13 16-0014 EA 12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 113.88                    | 23.04                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.07                     |                         |
| <i>For Dynamic Damper, Add</i>  | 24.17                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 13.43                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.19                     |                         |
| 23 33 13 16-0015 EA 14" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 97.79                     | 19.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 8.87                      |                         |
| <i>For Dynamic Damper, Add</i>  | 21.29                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 11.83                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 9.86                      |                         |
| 23 33 13 16-0016 EA 14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 104.06                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 9.59                      |                         |
| <i>For Dynamic Damper, Add</i>  | 23.01                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 12.79                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 10.66                     |                         |
| 23 33 13 16-0017 EA 14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 109.26                    | 21.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.07                     |                         |
| <i>For Dynamic Damper, Add</i>  | 24.17                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 13.43                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.19                     |                         |
| 23 33 13 16-0018 EA 14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 116.02                    | 23.04                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.55                     |                         |
| <i>For Dynamic Damper, Add</i>  | 25.33                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 14.07                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.73                     |                         |
| 23 33 13 16-0019 EA 14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 129.03                    | 25.65                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 11.75                     |                         |
| <i>For Dynamic Damper, Add</i>  | 28.20                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 15.67                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 13.06                     |                         |
| 23 33 13 16-0020 EA 16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 104.06                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 9.59                      |                         |
| <i>For Dynamic Damper, Add</i>  | 23.01                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 12.79                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 10.66                     |                         |
| 23 33 13 16-0021 EA 16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 110.80                    | 21.96                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.07                     |                         |
| <i>For Dynamic Damper, Add</i>  | 24.17                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 13.43                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.19                     |                         |
| 23 33 13 16-0022 EA 16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 119.08                    | 24.11                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.55                     |                         |
| <i>For Dynamic Damper, Add</i>  | 25.33                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 14.07                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.73                     |                         |
| 23 33 13 16-0023 EA 16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 125.81                    | 25.65                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 11.03                     |                         |
| <i>For Dynamic Damper, Add</i>  | 26.47                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 14.70                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 12.25                     |                         |
| 23 33 13 16-0024 EA 16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 138.84                    | 28.11                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 12.23                     |                         |
| <i>For Dynamic Damper, Add</i>  | 29.35                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 16.31                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 13.59                     |                         |
| 23 33 13 16-0025 EA 16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 151.85                    | 30.72                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 13.43                     |                         |
| <i>For Dynamic Damper, Add</i>  | 32.23                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 17.91                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 14.92                     |                         |
| 23 33 13 16-0026 EA 18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 109.26                    | 21.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.07                     |                         |
| <i>For Dynamic Damper, Add</i>  | 24.17                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 13.43                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.19                     |                         |
| 23 33 13 16-0027 EA 18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 117.07                    | 23.04                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 10.79                     |                         |
| <i>For Dynamic Damper, Add</i>  | 25.89                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 14.39                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 11.99                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0028 EA 18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 127.97                    | 25.65                   |
| For Spring Activated Horizontal Mount Operation, Add  | 11.51                     |                         |
| For Dynamic Damper, Add   | 27.63                     |                         |
| For 3 Hour Rated, Add   | 15.35                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 12.79                     |                         |
| 23 33 13 16-0029 EA 18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 140.98                    | 28.11                   |
| For Spring Activated Horizontal Mount Operation, Add  | 12.71                     |                         |
| For Dynamic Damper, Add   | 30.51                     |                         |
| For 3 Hour Rated, Add   | 16.95                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 14.13                     |                         |
| 23 33 13 16-0030 EA 18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 152.91                    | 30.72                   |
| For Spring Activated Horizontal Mount Operation, Add  | 13.67                     |                         |
| For Dynamic Damper, Add   | 32.81                     |                         |
| For 3 Hour Rated, Add   | 18.23                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 15.19                     |                         |
| 23 33 13 16-0031 EA 18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 165.92                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add  | 14.87                     |                         |
| For Dynamic Damper, Add   | 35.68                     |                         |
| For 3 Hour Rated, Add   | 19.82                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 16.52                     |                         |
| 23 33 13 16-0032 EA 18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 176.80                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.59                     |                         |
| For Dynamic Damper, Add   | 37.41                     |                         |
| For 3 Hour Rated, Add   | 20.78                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 17.32                     |                         |
| 23 33 13 16-0033 EA 20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 116.02                    | 23.04                   |
| For Spring Activated Horizontal Mount Operation, Add  | 10.55                     |                         |
| For Dynamic Damper, Add   | 25.33                     |                         |
| For 3 Hour Rated, Add   | 14.07                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 11.73                     |                         |
| 23 33 13 16-0034 EA 20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 127.95                    | 25.65                   |
| For Spring Activated Horizontal Mount Operation, Add  | 11.51                     |                         |
| For Dynamic Damper, Add   | 27.62                     |                         |
| For 3 Hour Rated, Add   | 15.35                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 12.79                     |                         |
| 23 33 13 16-0035 EA 20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 139.90                    | 28.11                   |
| For Spring Activated Horizontal Mount Operation, Add  | 12.47                     |                         |
| For Dynamic Damper, Add   | 29.93                     |                         |
| For 3 Hour Rated, Add   | 16.63                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 13.86                     |                         |
| 23 33 13 16-0036 EA 20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 156.12                    | 30.72                   |
| For Spring Activated Horizontal Mount Operation, Add  | 14.39                     |                         |
| For Dynamic Damper, Add   | 34.54                     |                         |
| For 3 Hour Rated, Add   | 19.19                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 15.99                     |                         |
| 23 33 13 16-0037 EA 20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 167.00                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.11                     |                         |
| For Dynamic Damper, Add   | 36.27                     |                         |
| For 3 Hour Rated, Add   | 20.15                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 16.79                     |                         |
| 23 33 13 16-0038 EA 20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 177.87                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.83                     |                         |
| For Dynamic Damper, Add   | 37.99                     |                         |
| For 3 Hour Rated, Add   | 21.11                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 17.59                     |                         |
| 23 33 13 16-0039 EA 20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 189.81                    | 38.40                   |
| For Spring Activated Horizontal Mount Operation, Add  | 16.79                     |                         |
| For Dynamic Damper, Add   | 40.29                     |                         |
| For 3 Hour Rated, Add   | 22.38                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 18.65                     |                         |
| 23 33 13 16-0040 EA 20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 201.72                    | 40.85                   |
| For Spring Activated Horizontal Mount Operation, Add  | 17.74                     |                         |
| For Dynamic Damper, Add   | 42.58                     |                         |
| For 3 Hour Rated, Add   | 23.66                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 19.72                     |                         |
| 23 33 13 16-0041 EA 24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 130.08                    | 25.65                   |
| For Spring Activated Horizontal Mount Operation, Add  | 11.99                     |                         |
| For Dynamic Damper, Add   | 28.77                     |                         |
| For 3 Hour Rated, Add   | 15.98                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 13.32                     |                         |
| 23 33 13 16-0042 EA 24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 144.17                    | 28.11                   |
| For Spring Activated Horizontal Mount Operation, Add  | 13.43                     |                         |
| For Dynamic Damper, Add   | 32.23                     |                         |
| For 3 Hour Rated, Add   | 17.91                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 14.92                     |                         |
| 23 33 13 16-0043 EA 24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 156.12                    | 30.72                   |
| For Spring Activated Horizontal Mount Operation, Add  | 14.39                     |                         |
| For Dynamic Damper, Add   | 34.54                     |                         |
| For 3 Hour Rated, Add   | 19.19                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 15.99                     |                         |
| 23 33 13 16-0044 EA 24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 170.19                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.83                     |                         |
| For Dynamic Damper, Add   | 37.99                     |                         |
| For 3 Hour Rated, Add   | 21.11                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 17.59                     |                         |



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST            | DEMOLITION UNIT COST |
|----------|---------|-----|--|-----------------------------------|----------------------|
| 23 33 13 | 16-0045 | EA  | 24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 181.07<br>16.55<br>39.72<br>22.07 | 35.78                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 18.39                             |                      |
| 23 33 13 | 16-0046 | EA  | 24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 191.94<br>17.27<br>41.44<br>23.02 | 38.40                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 19.19                             |                      |
| 23 33 13 | 16-0047 | EA  | 24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 205.99<br>18.70<br>44.89<br>24.94 | 40.85                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 20.78                             |                      |
| 23 33 13 | 16-0048 | EA  | 24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 227.74<br>20.14<br>48.34<br>26.86 | 46.08                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 22.38                             |                      |
| 23 33 13 | 16-0049 | EA  | 24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 251.64<br>22.06<br>52.95<br>29.42 | 51.14                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 24.52                             |                      |
| 23 33 13 | 16-0050 | EA  | 28" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 144.17<br>13.43<br>32.23<br>17.91 | 28.11                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 14.92                             |                      |
| 23 33 13 | 16-0051 | EA  | 28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 156.12<br>14.39<br>34.54<br>19.19 | 30.72                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 15.99                             |                      |
| 23 33 13 | 16-0052 | EA  | 28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 170.19<br>15.83<br>37.99<br>21.11 | 33.17                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 17.59                             |                      |
| 23 33 13 | 16-0053 | EA  | 28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 182.13<br>16.79<br>40.29<br>22.38 | 35.78                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 18.65                             |                      |
| 23 33 13 | 16-0054 | EA  | 28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 195.14<br>17.99<br>43.17<br>23.98 | 38.40                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 19.99                             |                      |
| 23 33 13 | 16-0055 | EA  | 28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 208.11<br>19.18<br>46.04<br>25.58 | 40.85                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 21.31                             |                      |
| 23 33 13 | 16-0056 | EA  | 28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 229.87<br>20.62<br>49.49<br>27.50 | 46.08                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 22.91                             |                      |
| 23 33 13 | 16-0057 | EA  | 28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 251.64<br>22.06<br>52.95<br>29.42 | 51.14                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 24.52                             |                      |
| 23 33 13 | 16-0058 | EA  | 28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 272.10<br>24.94<br>59.85<br>33.25 | 53.76                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 27.71                             |                      |
| 23 33 13 | 16-0059 | EA  | 28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 298.12<br>27.34<br>65.61<br>36.45 | 58.82                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 30.38                             |                      |
| 23 33 13 | 16-0060 | EA  | 32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 162.51<br>15.83<br>37.99<br>21.11 | 30.72                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 17.59                             |                      |
| 23 33 13 | 16-0061 | EA  | 32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 172.31<br>16.31<br>39.13<br>21.74 | 33.17                |
|          |         |     | <i>For Cap Of Damper Blades Outside Air Stream, Add</i>  | 18.12                             |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0062 EA 32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 182.13                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add  | 16.79                     |                         |
| For Dynamic Damper, Add   | 40.29                     |                         |
| For 3 Hour Rated, Add   | 22.38                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 18.65                     |                         |
| 23 33 13 16-0063 EA 32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 194.06                    | 38.40                   |
| For Spring Activated Horizontal Mount Operation, Add  | 17.74                     |                         |
| For Dynamic Damper, Add   | 42.58                     |                         |
| For 3 Hour Rated, Add   | 23.66                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 19.72                     |                         |
| 23 33 13 16-0064 EA 32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 208.52                    | 40.85                   |
| For Spring Activated Horizontal Mount Operation, Add  | 19.27                     |                         |
| For Dynamic Damper, Add   | 46.26                     |                         |
| For 3 Hour Rated, Add   | 25.70                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 21.42                     |                         |
| 23 33 13 16-0065 EA 32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 229.87                    | 46.08                   |
| For Spring Activated Horizontal Mount Operation, Add  | 20.62                     |                         |
| For Dynamic Damper, Add   | 49.49                     |                         |
| For 3 Hour Rated, Add   | 27.50                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 22.91                     |                         |
| 23 33 13 16-0066 EA 32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 253.78                    | 51.14                   |
| For Spring Activated Horizontal Mount Operation, Add  | 22.55                     |                         |
| For Dynamic Damper, Add   | 54.11                     |                         |
| For 3 Hour Rated, Add   | 30.06                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 25.05                     |                         |
| 23 33 13 16-0067 EA 32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 277.66                    | 56.21                   |
| For Spring Activated Horizontal Mount Operation, Add  | 24.46                     |                         |
| For Dynamic Damper, Add   | 58.71                     |                         |
| For 3 Hour Rated, Add   | 32.62                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 27.18                     |                         |
| 23 33 13 16-0068 EA 32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 298.12                    | 58.82                   |
| For Spring Activated Horizontal Mount Operation, Add  | 27.34                     |                         |
| For Dynamic Damper, Add   | 65.61                     |                         |
| For 3 Hour Rated, Add   | 36.45                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 30.38                     |                         |
| 23 33 13 16-0069 EA 32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 325.35                    | 62.98                   |
| For Spring Activated Horizontal Mount Operation, Add  | 30.70                     |                         |
| For Dynamic Damper, Add   | 73.67                     |                         |
| For 3 Hour Rated, Add   | 40.93                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 34.11                     |                         |
| 23 33 13 16-0070 EA 32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 353.14                    | 66.50                   |
| For Spring Activated Horizontal Mount Operation, Add  | 34.53                     |                         |
| For Dynamic Damper, Add   | 82.88                     |                         |
| For 3 Hour Rated, Add   | 46.04                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 38.37                     |                         |
| 23 33 13 16-0071 EA 36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 176.58                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add  | 17.27                     |                         |
| For Dynamic Damper, Add   | 41.44                     |                         |
| For 3 Hour Rated, Add   | 23.02                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 19.19                     |                         |
| 23 33 13 16-0072 EA 36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 188.51                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add  | 18.22                     |                         |
| For Dynamic Damper, Add   | 43.73                     |                         |
| For 3 Hour Rated, Add   | 24.30                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 20.25                     |                         |
| 23 33 13 16-0073 EA 36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 200.45                    | 38.40                   |
| For Spring Activated Horizontal Mount Operation, Add  | 19.18                     |                         |
| For Dynamic Damper, Add   | 46.04                     |                         |
| For 3 Hour Rated, Add   | 25.58                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 21.31                     |                         |
| 23 33 13 16-0074 EA 36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 214.51                    | 40.85                   |
| For Spring Activated Horizontal Mount Operation, Add  | 20.62                     |                         |
| For Dynamic Damper, Add   | 49.49                     |                         |
| For 3 Hour Rated, Add   | 27.50                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 22.91                     |                         |
| 23 33 13 16-0075 EA 36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 233.09                    | 46.08                   |
| For Spring Activated Horizontal Mount Operation, Add  | 21.35                     |                         |
| For Dynamic Damper, Add   | 51.23                     |                         |
| For 3 Hour Rated, Add   | 28.46                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 23.72                     |                         |
| 23 33 13 16-0076 EA 36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 243.96                    | 48.53                   |
| For Spring Activated Horizontal Mount Operation, Add  | 22.06                     |                         |
| For Dynamic Damper, Add   | 52.95                     |                         |
| For 3 Hour Rated, Add   | 29.42                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 24.52                     |                         |
| 23 33 13 16-0077 EA 36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 277.66                    | 56.21                   |
| For Spring Activated Horizontal Mount Operation, Add  | 24.46                     |                         |
| For Dynamic Damper, Add   | 58.71                     |                         |
| For 3 Hour Rated, Add   | 32.62                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 27.18                     |                         |
| 23 33 13 16-0078 EA 36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 303.66                    | 61.44                   |
| For Spring Activated Horizontal Mount Operation, Add  | 26.86                     |                         |
| For Dynamic Damper, Add   | 64.45                     |                         |
| For 3 Hour Rated, Add   | 35.81                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 29.84                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0079 EA 36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 265.96                    | 63.43                   |
| For Spring Activated Horizontal Mount Operation, Add  | 16.99                     |                         |
| For Dynamic Damper, Add   | 40.78                     |                         |
| For 3 Hour Rated, Add   | 22.66                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 18.88                     |                         |
| 23 33 13 16-0080 EA 36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 353.49                    | 68.04                   |
| For Spring Activated Horizontal Mount Operation, Add  | 33.57                     |                         |
| For Dynamic Damper, Add   | 80.57                     |                         |
| For 3 Hour Rated, Add   | 44.76                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 37.30                     |                         |
| 23 33 13 16-0081 EA 36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 379.14                    | 71.57                   |
| For Spring Activated Horizontal Mount Operation, Add  | 36.93                     |                         |
| For Dynamic Damper, Add   | 88.62                     |                         |
| For 3 Hour Rated, Add   | 49.24                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 41.03                     |                         |
| 23 33 13 16-0082 EA 40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 403.87                    | 74.18                   |
| For Spring Activated Horizontal Mount Operation, Add  | 40.76                     |                         |
| For Dynamic Damper, Add   | 97.83                     |                         |
| For 3 Hour Rated, Add   | 54.35                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 45.29                     |                         |
| 23 33 13 16-0083 EA 40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 186.38                    | 38.40                   |
| For Spring Activated Horizontal Mount Operation, Add  | 17.74                     |                         |
| For Dynamic Damper, Add   | 42.58                     |                         |
| For 3 Hour Rated, Add   | 23.66                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 19.72                     |                         |
| 23 33 13 16-0084 EA 40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 202.58                    | 40.85                   |
| For Spring Activated Horizontal Mount Operation, Add  | 19.66                     |                         |
| For Dynamic Damper, Add   | 47.19                     |                         |
| For 3 Hour Rated, Add   | 26.21                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 21.85                     |                         |
| 23 33 13 16-0085 EA 40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 212.38                    | 43.46                   |
| For Spring Activated Horizontal Mount Operation, Add  | 20.14                     |                         |
| For Dynamic Damper, Add   | 48.34                     |                         |
| For 3 Hour Rated, Add   | 26.86                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 22.38                     |                         |
| 23 33 13 16-0086 EA 40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 222.19                    | 46.08                   |
| For Spring Activated Horizontal Mount Operation, Add  | 20.62                     |                         |
| For Dynamic Damper, Add   | 49.49                     |                         |
| For 3 Hour Rated, Add   | 27.50                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 22.91                     |                         |
| 23 33 13 16-0087 EA 40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 245.02                    | 48.53                   |
| For Spring Activated Horizontal Mount Operation, Add  | 22.30                     |                         |
| For Dynamic Damper, Add   | 53.52                     |                         |
| For 3 Hour Rated, Add   | 29.74                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 24.78                     |                         |
| 23 33 13 16-0088 EA 40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 260.17                    | 51.14                   |
| For Spring Activated Horizontal Mount Operation, Add  | 23.98                     |                         |
| For Dynamic Damper, Add   | 57.56                     |                         |
| For 3 Hour Rated, Add   | 31.98                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 26.65                     |                         |
| 23 33 13 16-0089 EA 40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 291.73                    | 58.82                   |
| For Spring Activated Horizontal Mount Operation, Add  | 25.90                     |                         |
| For Dynamic Damper, Add   | 62.16                     |                         |
| For 3 Hour Rated, Add   | 34.53                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 28.78                     |                         |
| 23 33 13 16-0090 EA 40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 315.62                    | 63.89                   |
| For Spring Activated Horizontal Mount Operation, Add  | 27.82                     |                         |
| For Dynamic Damper, Add   | 66.77                     |                         |
| For 3 Hour Rated, Add   | 37.09                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 30.91                     |                         |
| 23 33 13 16-0091 EA 40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 340.71                    | 68.04                   |
| For Spring Activated Horizontal Mount Operation, Add  | 30.70                     |                         |
| For Dynamic Damper, Add   | 73.67                     |                         |
| For 3 Hour Rated, Add   | 40.93                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 34.11                     |                         |
| 23 33 13 16-0092 EA 40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 374.89                    | 71.57                   |
| For Spring Activated Horizontal Mount Operation, Add  | 35.97                     |                         |
| For Dynamic Damper, Add   | 86.33                     |                         |
| For 3 Hour Rated, Add   | 47.96                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 39.97                     |                         |
| 23 33 13 16-0093 EA 40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 399.95                    | 75.72                   |
| For Spring Activated Horizontal Mount Operation, Add  | 38.85                     |                         |
| For Dynamic Damper, Add   | 93.23                     |                         |
| For 3 Hour Rated, Add   | 51.80                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 43.16                     |                         |
| 23 33 13 16-0094 EA 40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 429.57                    | 77.71                   |
| For Spring Activated Horizontal Mount Operation, Add  | 44.12                     |                         |
| For Dynamic Damper, Add   | 105.90                    |                         |
| For 3 Hour Rated, Add   | 58.83                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 49.03                     |                         |
| 23 33 13 16-0095 EA 40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 463.17                    | 81.86                   |
| For Spring Activated Horizontal Mount Operation, Add  | 48.92                     |                         |
| For Dynamic Damper, Add   | 117.41                    |                         |
| For 3 Hour Rated, Add   | 65.23                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 54.36                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0096 EA 44" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 198.33                    | 38.40                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 18.70                     |                         |
| <i>For Dynamic Damper, Add</i>  | 44.89                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 24.94                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 20.78                     |                         |
| 23 33 13 16-0097 EA 44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 214.51                    | 40.85                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 20.62                     |                         |
| <i>For Dynamic Damper, Add</i>  | 49.49                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 27.50                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 22.91                     |                         |
| 23 33 13 16-0098 EA 44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 228.60                    | 43.46                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 22.06                     |                         |
| <i>For Dynamic Damper, Add</i>  | 52.95                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 29.42                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 24.52                     |                         |
| 23 33 13 16-0099 EA 44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 238.42                    | 46.08                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 22.55                     |                         |
| <i>For Dynamic Damper, Add</i>  | 54.11                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 30.06                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 25.05                     |                         |
| 23 33 13 16-0100 EA 44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 254.62                    | 48.53                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 24.46                     |                         |
| <i>For Dynamic Damper, Add</i>  | 58.71                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 32.62                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 27.18                     |                         |
| 23 33 13 16-0101 EA 44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 270.83                    | 51.14                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 26.38                     |                         |
| <i>For Dynamic Damper, Add</i>  | 63.32                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 35.18                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 29.31                     |                         |
| 23 33 13 16-0102 EA 44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 312.21                    | 61.44                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 28.78                     |                         |
| <i>For Dynamic Damper, Add</i>  | 69.07                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 38.37                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 31.98                     |                         |
| 23 33 13 16-0103 EA 44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 338.21                    | 66.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 31.17                     |                         |
| <i>For Dynamic Damper, Add</i>  | 74.82                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 41.57                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 34.64                     |                         |
| 23 33 13 16-0104 EA 44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 374.89                    | 71.57                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 35.97                     |                         |
| <i>For Dynamic Damper, Add</i>  | 86.33                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 47.96                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 39.97                     |                         |
| 23 33 13 16-0105 EA 44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 409.44                    | 76.80                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 40.29                     |                         |
| <i>For Dynamic Damper, Add</i>  | 96.69                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 53.72                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 44.77                     |                         |
| 23 33 13 16-0106 EA 44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 446.10                    | 81.86                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 45.08                     |                         |
| <i>For Dynamic Damper, Add</i>  | 108.19                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 60.11                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 50.09                     |                         |
| 23 33 13 16-0107 EA 44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 472.96                    | 84.32                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 49.40                     |                         |
| <i>For Dynamic Damper, Add</i>  | 118.55                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 65.86                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 54.89                     |                         |
| 23 33 13 16-0108 EA 44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 499.83                    | 86.93                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 53.71                     |                         |
| <i>For Dynamic Damper, Add</i>  | 128.91                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 71.62                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 59.68                     |                         |
| 23 33 13 16-0109 EA 44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 526.71                    | 89.54                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 58.03                     |                         |
| <i>For Dynamic Damper, Add</i>  | 139.28                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 77.38                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 64.48                     |                         |
| 23 33 13 16-0110 EA 48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 212.38                    | 40.85                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 20.14                     |                         |
| <i>For Dynamic Damper, Add</i>  | 48.34                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 26.86                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 22.38                     |                         |
| 23 33 13 16-0111 EA 48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 228.60                    | 43.46                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 22.06                     |                         |
| <i>For Dynamic Damper, Add</i>  | 52.95                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 29.42                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 24.52                     |                         |
| 23 33 13 16-0112 EA 48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 238.42                    | 46.08                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 22.55                     |                         |
| <i>For Dynamic Damper, Add</i>  | 54.11                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 30.06                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 25.05                     |                         |





**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0130 EA 52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 333.96                    | 66.50                   |
| For Spring Activated Horizontal Mount Operation, Add  | 30.22                     |                         |
| For Dynamic Damper, Add   | 72.52                     |                         |
| For 3 Hour Rated, Add   | 40.29                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 33.58                     |                         |
| 23 33 13 16-0131 EA 52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 362.11                    | 71.57                   |
| For Spring Activated Horizontal Mount Operation, Add  | 33.10                     |                         |
| For Dynamic Damper, Add   | 79.43                     |                         |
| For 3 Hour Rated, Add   | 44.13                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 36.77                     |                         |
| 23 33 13 16-0132 EA 52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 390.25                    | 76.80                   |
| For Spring Activated Horizontal Mount Operation, Add  | 35.97                     |                         |
| For Dynamic Damper, Add   | 86.33                     |                         |
| For 3 Hour Rated, Add   | 47.96                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 39.97                     |                         |
| 23 33 13 16-0133 EA 52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 424.80                    | 81.86                   |
| For Spring Activated Horizontal Mount Operation, Add  | 40.29                     |                         |
| For Dynamic Damper, Add   | 96.69                     |                         |
| For 3 Hour Rated, Add   | 53.72                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 44.77                     |                         |
| 23 33 13 16-0134 EA 52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 465.73                    | 86.93                   |
| For Spring Activated Horizontal Mount Operation, Add  | 46.04                     |                         |
| For Dynamic Damper, Add   | 110.50                    |                         |
| For 3 Hour Rated, Add   | 61.39                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 51.16                     |                         |
| 23 33 13 16-0135 EA 52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 494.71                    | 89.54                   |
| For Spring Activated Horizontal Mount Operation, Add  | 50.83                     |                         |
| For Dynamic Damper, Add   | 122.00                    |                         |
| For 3 Hour Rated, Add   | 67.78                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 56.48                     |                         |
| 23 33 13 16-0136 EA 52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 530.12                    | 92.00                   |
| For Spring Activated Horizontal Mount Operation, Add  | 57.07                     |                         |
| For Dynamic Damper, Add   | 136.98                    |                         |
| For 3 Hour Rated, Add   | 76.10                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 63.42                     |                         |
| 23 33 13 16-0137 EA 52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 571.04                    | 97.22                   |
| For Spring Activated Horizontal Mount Operation, Add  | 62.82                     |                         |
| For Dynamic Damper, Add   | 150.78                    |                         |
| For 3 Hour Rated, Add   | 83.77                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 69.81                     |                         |
| 23 33 13 16-0138 EA 52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 605.60                    | 102.29                  |
| For Spring Activated Horizontal Mount Operation, Add  | 67.14                     |                         |
| For Dynamic Damper, Add   | 161.15                    |                         |
| For 3 Hour Rated, Add   | 89.53                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 74.61                     |                         |
| 23 33 13 16-0139 EA 52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 654.22                    | 109.97                  |
| For Spring Activated Horizontal Mount Operation, Add  | 72.90                     |                         |
| For Dynamic Damper, Add   | 174.96                    |                         |
| For 3 Hour Rated, Add   | 97.20                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 81.00                     |                         |
| 23 33 13 16-0140 EA 52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 690.88                    | 115.03                  |
| For Spring Activated Horizontal Mount Operation, Add  | 77.70                     |                         |
| For Dynamic Damper, Add   | 186.47                    |                         |
| For 3 Hour Rated, Add   | 103.60                    |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 86.33                     |                         |
| 23 33 13 16-0141 EA 56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 238.42                    | 46.08                   |
| For Spring Activated Horizontal Mount Operation, Add  | 22.55                     |                         |
| For Dynamic Damper, Add   | 54.11                     |                         |
| For 3 Hour Rated, Add   | 30.06                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 25.05                     |                         |
| 23 33 13 16-0142 EA 56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 264.42                    | 51.14                   |
| For Spring Activated Horizontal Mount Operation, Add  | 24.94                     |                         |
| For Dynamic Damper, Add   | 59.85                     |                         |
| For 3 Hour Rated, Add   | 33.25                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 27.71                     |                         |
| 23 33 13 16-0143 EA 56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 286.19                    | 56.21                   |
| For Spring Activated Horizontal Mount Operation, Add  | 26.38                     |                         |
| For Dynamic Damper, Add   | 63.32                     |                         |
| For 3 Hour Rated, Add   | 35.18                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 29.31                     |                         |
| 23 33 13 16-0144 EA 56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 303.66                    | 61.44                   |
| For Spring Activated Horizontal Mount Operation, Add  | 26.86                     |                         |
| For Dynamic Damper, Add   | 64.45                     |                         |
| For 3 Hour Rated, Add   | 35.81                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 29.84                     |                         |
| 23 33 13 16-0145 EA 56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 330.76                    | 66.50                   |
| For Spring Activated Horizontal Mount Operation, Add  | 29.50                     |                         |
| For Dynamic Damper, Add   | 70.79                     |                         |
| For 3 Hour Rated, Add   | 39.33                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 32.78                     |                         |
| 23 33 13 16-0146 EA 56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 357.84                    | 71.57                   |
| For Spring Activated Horizontal Mount Operation, Add  | 32.13                     |                         |
| For Dynamic Damper, Add   | 77.12                     |                         |
| For 3 Hour Rated, Add   | 42.85                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 35.71                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0147 EA 56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 384.92                    | 76.80                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 34.77                     |                         |
| <i>For Dynamic Damper, Add</i>  | 83.45                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 46.36                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 38.64                     |                         |
| 23 33 13 16-0148 EA 56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 412.00                    | 81.86                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 37.41                     |                         |
| <i>For Dynamic Damper, Add</i>  | 89.78                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 49.88                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 41.57                     |                         |
| 23 33 13 16-0149 EA 56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 452.93                    | 86.93                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 43.16                     |                         |
| <i>For Dynamic Damper, Add</i>  | 103.59                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 57.55                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 47.96                     |                         |
| 23 33 13 16-0150 EA 56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 486.21                    | 89.54                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 48.92                     |                         |
| <i>For Dynamic Damper, Add</i>  | 117.41                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 65.23                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 54.36                     |                         |
| 23 33 13 16-0151 EA 56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 517.33                    | 92.00                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 54.20                     |                         |
| <i>For Dynamic Damper, Add</i>  | 130.07                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 72.26                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 60.22                     |                         |
| 23 33 13 16-0152 EA 56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 562.53                    | 97.22                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 60.91                     |                         |
| <i>For Dynamic Damper, Add</i>  | 146.18                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 81.21                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 67.68                     |                         |
| 23 33 13 16-0153 EA 56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 603.47                    | 102.29                  |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 66.67                     |                         |
| <i>For Dynamic Damper, Add</i>  | 160.00                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 88.89                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 74.07                     |                         |
| 23 33 13 16-0154 EA 56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 646.54                    | 107.35                  |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 72.90                     |                         |
| <i>For Dynamic Damper, Add</i>  | 174.96                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 97.20                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 81.00                     |                         |
| 23 33 13 16-0155 EA 56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 683.22                    | 112.58                  |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 77.70                     |                         |
| <i>For Dynamic Damper, Add</i>  | 186.47                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 103.60                    |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 86.33                     |                         |
| 23 33 13 16-0156 EA 56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 726.27                    | 117.65                  |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 83.93                     |                         |
| <i>For Dynamic Damper, Add</i>  | 201.44                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 111.91                    |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 93.26                     |                         |
| 23 33 13 16-0157 EA 56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 769.34                    | 122.71                  |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 90.17                     |                         |
| <i>For Dynamic Damper, Add</i>  | 216.40                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 120.22                    |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 100.19                    |                         |
| 23 33 13 16-0158 EA 60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 260.17                    | 51.14                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 23.98                     |                         |
| <i>For Dynamic Damper, Add</i>  | 57.56                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 31.98                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 26.65                     |                         |
| 23 33 13 16-0159 EA 60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 286.19                    | 56.21                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 26.38                     |                         |
| <i>For Dynamic Damper, Add</i>  | 63.32                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 35.18                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 29.31                     |                         |
| 23 33 13 16-0160 EA 60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 305.80                    | 61.44                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 27.34                     |                         |
| <i>For Dynamic Damper, Add</i>  | 65.61                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 36.45                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 30.38                     |                         |
| 23 33 13 16-0161 EA 60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 323.30                    | 66.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 27.82                     |                         |
| <i>For Dynamic Damper, Add</i>  | 66.77                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 37.09                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 30.91                     |                         |
| 23 33 13 16-0162 EA 60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 351.45                    | 71.57                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 30.70                     |                         |
| <i>For Dynamic Damper, Add</i>  | 73.67                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 40.93                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 34.11                     |                         |
| 23 33 13 16-0163 EA 60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 379.59                    | 76.80                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>   | 33.57                     |                         |
| <i>For Dynamic Damper, Add</i>  | 80.57                     |                         |
| <i>For 3 Hour Rated, Add</i>  | 44.76                     |                         |
| <i>For Cap Of Damper Blades Outside Air Stream, Add</i>   | 37.30                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 16-0164 EA 60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 408.81                    | 81.86                   |
| For Spring Activated Horizontal Mount Operation, Add  | 36.69                     |                         |
| For Dynamic Damper, Add   | 88.06                     |                         |
| For 3 Hour Rated, Add   | 48.92                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 40.77                     |                         |
| 23 33 13 16-0165 EA 60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 438.02                    | 86.93                   |
| For Spring Activated Horizontal Mount Operation, Add  | 39.81                     |                         |
| For Dynamic Damper, Add   | 95.54                     |                         |
| For 3 Hour Rated, Add   | 53.08                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 44.23                     |                         |
| 23 33 13 16-0166 EA 60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 473.41                    | 89.54                   |
| For Spring Activated Horizontal Mount Operation, Add  | 46.04                     |                         |
| For Dynamic Damper, Add   | 110.50                    |                         |
| For 3 Hour Rated, Add   | 61.39                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 51.16                     |                         |
| 23 33 13 16-0167 EA 60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 506.66                    | 92.00                   |
| For Spring Activated Horizontal Mount Operation, Add  | 51.80                     |                         |
| For Dynamic Damper, Add   | 124.31                    |                         |
| For 3 Hour Rated, Add   | 69.06                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 57.55                     |                         |
| 23 33 13 16-0168 EA 60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 549.75                    | 97.22                   |
| For Spring Activated Horizontal Mount Operation, Add  | 58.03                     |                         |
| For Dynamic Damper, Add   | 139.28                    |                         |
| For 3 Hour Rated, Add   | 77.38                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 64.48                     |                         |
| 23 33 13 16-0169 EA 60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 592.82                    | 102.29                  |
| For Spring Activated Horizontal Mount Operation, Add  | 64.27                     |                         |
| For Dynamic Damper, Add   | 154.25                    |                         |
| For 3 Hour Rated, Add   | 85.69                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 71.41                     |                         |
| 23 33 13 16-0170 EA 60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 629.49                    | 107.35                  |
| For Spring Activated Horizontal Mount Operation, Add  | 69.06                     |                         |
| For Dynamic Damper, Add   | 165.75                    |                         |
| For 3 Hour Rated, Add   | 92.09                     |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 76.74                     |                         |
| 23 33 13 16-0171 EA 60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 678.94                    | 112.58                  |
| For Spring Activated Horizontal Mount Operation, Add  | 76.73                     |                         |
| For Dynamic Damper, Add   | 184.16                    |                         |
| For 3 Hour Rated, Add   | 102.31                    |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 85.26                     |                         |
| 23 33 13 16-0172 EA 60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 724.13                    | 117.65                  |
| For Spring Activated Horizontal Mount Operation, Add  | 83.45                     |                         |
| For Dynamic Damper, Add   | 200.28                    |                         |
| For 3 Hour Rated, Add   | 111.27                    |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 92.72                     |                         |
| 23 33 13 16-0173 EA 60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 769.34                    | 122.71                  |
| For Spring Activated Horizontal Mount Operation, Add  | 90.17                     |                         |
| For Dynamic Damper, Add   | 216.40                    |                         |
| For 3 Hour Rated, Add   | 120.22                    |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 100.19                    |                         |
| 23 33 13 16-0174 EA 60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 810.25                    | 127.94                  |
| For Spring Activated Horizontal Mount Operation, Add  | 95.92                     |                         |
| For Dynamic Damper, Add   | 230.20                    |                         |
| For 3 Hour Rated, Add   | 127.89                    |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 106.57                    |                         |
| 23 33 13 16-0175 EA 60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....         | 851.22                    | 133.01                  |
| For Spring Activated Horizontal Mount Operation, Add  | 101.68                    |                         |
| For Dynamic Damper, Add   | 244.03                    |                         |
| For 3 Hour Rated, Add   | 135.57                    |                         |
| For Cap Of Damper Blades Outside Air Stream, Add  | 112.98                    |                         |
| <b>23 33 13 16-0176 Parallel Blade Louver Fire Damper</b> <small>(23 33 13 16)</small>                                  |                           |                         |
| Note: UL listed. 22 gauge galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating. |                           |                         |
| 23 33 13 16-0177 EA 6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....              | 112.90                    | 17.05                   |
| For Spring Activated Horizontal Mount Operation, Add  | 13.90                     |                         |
| For Dynamic Damper, Add   | 33.35                     |                         |
| For 3 Hour Rated, Add   | 18.53                     |                         |
| 23 33 13 16-0178 EA 8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....              | 117.85                    | 17.81                   |
| For Spring Activated Horizontal Mount Operation, Add  | 14.49                     |                         |
| For Dynamic Damper, Add   | 34.78                     |                         |
| For 3 Hour Rated, Add   | 19.32                     |                         |
| 23 33 13 16-0179 EA 8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....              | 120.83                    | 17.97                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.09                     |                         |
| For Dynamic Damper, Add   | 36.22                     |                         |
| For 3 Hour Rated, Add   | 20.12                     |                         |
| 23 33 13 16-0180 EA 10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....             | 120.83                    | 17.97                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.09                     |                         |
| For Dynamic Damper, Add   | 36.22                     |                         |
| For 3 Hour Rated, Add   | 20.12                     |                         |
| 23 33 13 16-0181 EA 10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....             | 125.05                    | 18.44                   |
| For Spring Activated Horizontal Mount Operation, Add  | 15.69                     |                         |
| For Dynamic Damper, Add   | 37.67                     |                         |
| For 3 Hour Rated, Add   | 20.93                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 16-0182 EA 10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 136.50                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 16.89                     |                         |
| <i>For Dynamic Damper, Add</i>   | 40.53                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 22.52                     |                         |
| 23 33 13 16-0183 EA 12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 125.05                    | 18.44                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 15.69                     |                         |
| <i>For Dynamic Damper, Add</i>   | 37.67                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 20.93                     |                         |
| 23 33 13 16-0184 EA 12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 133.42                    | 19.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 16.89                     |                         |
| <i>For Dynamic Damper, Add</i>   | 40.53                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 22.52                     |                         |
| 23 33 13 16-0185 EA 12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 139.17                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 17.49                     |                         |
| <i>For Dynamic Damper, Add</i>   | 41.97                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 23.32                     |                         |
| 23 33 13 16-0186 EA 12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 149.53                    | 23.04                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 18.09                     |                         |
| <i>For Dynamic Damper, Add</i>   | 43.42                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 24.12                     |                         |
| 23 33 13 16-0187 EA 14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 132.10                    | 19.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 16.89                     |                         |
| <i>For Dynamic Damper, Add</i>   | 39.82                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 22.12                     |                         |
| 23 33 13 16-0188 EA 14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 139.17                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 17.49                     |                         |
| <i>For Dynamic Damper, Add</i>   | 41.97                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 23.32                     |                         |
| 23 33 13 16-0189 EA 14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 144.91                    | 21.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 18.09                     |                         |
| <i>For Dynamic Damper, Add</i>   | 43.42                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 24.12                     |                         |
| 23 33 13 16-0190 EA 14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 152.18                    | 23.04                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 18.69                     |                         |
| <i>For Dynamic Damper, Add</i>   | 44.85                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 24.92                     |                         |
| 23 33 13 16-0191 EA 14" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 166.53                    | 25.65                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 20.19                     |                         |
| <i>For Dynamic Damper, Add</i>   | 48.45                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 26.92                     |                         |
| 23 33 13 16-0192 EA 16" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 170.01                    | 20.43                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 24.43                     |                         |
| <i>For Dynamic Damper, Add</i>   | 58.63                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 32.57                     |                         |
| 23 33 13 16-0193 EA 16" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 177.60                    | 21.96                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 25.10                     |                         |
| <i>For Dynamic Damper, Add</i>   | 60.24                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 33.47                     |                         |
| 23 33 13 16-0194 EA 16" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 186.74                    | 24.11                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 25.78                     |                         |
| <i>For Dynamic Damper, Add</i>   | 61.86                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 34.37                     |                         |
| 23 33 13 16-0195 EA 16" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 194.32                    | 25.65                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 26.44                     |                         |
| <i>For Dynamic Damper, Add</i>   | 63.46                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 35.26                     |                         |
| 23 33 13 16-0196 EA 16" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 209.48                    | 28.11                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 28.13                     |                         |
| <i>For Dynamic Damper, Add</i>   | 67.50                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 37.50                     |                         |
| 23 33 13 16-0197 EA 16" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 224.63                    | 30.72                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 29.81                     |                         |
| <i>For Dynamic Damper, Add</i>   | 71.53                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 39.74                     |                         |
| 23 33 13 16-0198 EA 18" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 176.06                    | 21.50                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 25.10                     |                         |
| <i>For Dynamic Damper, Add</i>   | 60.24                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 33.47                     |                         |
| 23 33 13 16-0199 EA 18" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 185.16                    | 23.04                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 26.11                     |                         |
| <i>For Dynamic Damper, Add</i>   | 62.66                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 34.81                     |                         |
| 23 33 13 16-0200 EA 18" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 197.34                    | 25.65                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 27.12                     |                         |
| <i>For Dynamic Damper, Add</i>   | 65.09                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 36.16                     |                         |
| 23 33 13 16-0201 EA 18" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 212.47                    | 28.11                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 28.80                     |                         |
| <i>For Dynamic Damper, Add</i>   | 69.11                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 38.40                     |                         |
| 23 33 13 16-0202 EA 18" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 226.11                    | 30.72                   |
| <i>For Spring Activated Horizontal Mount Operation, Add</i>  | 30.14                     |                         |
| <i>For Dynamic Damper, Add</i>   | 72.33                     |                         |
| <i>For 3 Hour Rated, Add</i>   | 40.19                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 16-0203 EA 18" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 241.26                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add   | 31.82                     |                         |
| For Dynamic Damper, Add  | 76.37                     |                         |
| For 3 Hour Rated, Add  | 42.43                     |                         |
| 23 33 13 16-0204 EA 18" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 253.40                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add   | 32.82                     |                         |
| For Dynamic Damper, Add  | 78.78                     |                         |
| For 3 Hour Rated, Add  | 43.76                     |                         |
| 23 33 13 16-0205 EA 20" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 183.68                    | 23.04                   |
| For Spring Activated Horizontal Mount Operation, Add   | 25.78                     |                         |
| For Dynamic Damper, Add  | 61.86                     |                         |
| For 3 Hour Rated, Add  | 34.37                     |                         |
| 23 33 13 16-0206 EA 20" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 197.31                    | 25.65                   |
| For Spring Activated Horizontal Mount Operation, Add   | 27.11                     |                         |
| For Dynamic Damper, Add  | 65.08                     |                         |
| For 3 Hour Rated, Add  | 36.15                     |                         |
| 23 33 13 16-0207 EA 20" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 210.97                    | 28.11                   |
| For Spring Activated Horizontal Mount Operation, Add   | 28.46                     |                         |
| For Dynamic Damper, Add  | 68.30                     |                         |
| For 3 Hour Rated, Add  | 37.95                     |                         |
| 23 33 13 16-0208 EA 20" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 230.61                    | 30.72                   |
| For Spring Activated Horizontal Mount Operation, Add   | 31.15                     |                         |
| For Dynamic Damper, Add  | 74.76                     |                         |
| For 3 Hour Rated, Add  | 41.54                     |                         |
| 23 33 13 16-0209 EA 20" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 242.76                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add   | 32.16                     |                         |
| For Dynamic Damper, Add  | 77.18                     |                         |
| For 3 Hour Rated, Add  | 42.88                     |                         |
| 23 33 13 16-0210 EA 20" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 254.90                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add   | 33.16                     |                         |
| For Dynamic Damper, Add  | 79.59                     |                         |
| For 3 Hour Rated, Add  | 44.21                     |                         |
| 23 33 13 16-0211 EA 20" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 268.55                    | 38.40                   |
| For Spring Activated Horizontal Mount Operation, Add   | 34.50                     |                         |
| For Dynamic Damper, Add  | 82.81                     |                         |
| For 3 Hour Rated, Add  | 46.01                     |                         |
| 23 33 13 16-0212 EA 20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 282.16                    | 40.85                   |
| For Spring Activated Horizontal Mount Operation, Add   | 35.84                     |                         |
| For Dynamic Damper, Add  | 86.02                     |                         |
| For 3 Hour Rated, Add  | 47.79                     |                         |
| 23 33 13 16-0213 EA 24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 224.76                    | 25.65                   |
| For Spring Activated Horizontal Mount Operation, Add   | 33.29                     |                         |
| For Dynamic Damper, Add  | 79.90                     |                         |
| For 3 Hour Rated, Add  | 44.39                     |                         |
| 23 33 13 16-0214 EA 24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 241.40                    | 28.11                   |
| For Spring Activated Horizontal Mount Operation, Add   | 35.31                     |                         |
| For Dynamic Damper, Add  | 84.74                     |                         |
| For 3 Hour Rated, Add  | 47.08                     |                         |
| 23 33 13 16-0215 EA 24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 255.06                    | 30.72                   |
| For Spring Activated Horizontal Mount Operation, Add   | 36.65                     |                         |
| For Dynamic Damper, Add  | 87.97                     |                         |
| For 3 Hour Rated, Add  | 48.87                     |                         |
| 23 33 13 16-0216 EA 24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 271.67                    | 33.17                   |
| For Spring Activated Horizontal Mount Operation, Add   | 38.66                     |                         |
| For Dynamic Damper, Add  | 92.79                     |                         |
| For 3 Hour Rated, Add  | 51.55                     |                         |
| 23 33 13 16-0217 EA 24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 283.84                    | 35.78                   |
| For Spring Activated Horizontal Mount Operation, Add   | 39.67                     |                         |
| For Dynamic Damper, Add  | 95.21                     |                         |
| For 3 Hour Rated, Add  | 52.90                     |                         |
| 23 33 13 16-0218 EA 24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 295.98                    | 38.40                   |
| For Spring Activated Horizontal Mount Operation, Add   | 40.68                     |                         |
| For Dynamic Damper, Add  | 97.62                     |                         |
| For 3 Hour Rated, Add  | 54.23                     |                         |
| 23 33 13 16-0219 EA 24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 312.59                    | 40.85                   |
| For Spring Activated Horizontal Mount Operation, Add   | 42.69                     |                         |
| For Dynamic Damper, Add  | 102.45                    |                         |
| For 3 Hour Rated, Add  | 56.92                     |                         |
| 23 33 13 16-0220 EA 24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 336.90                    | 46.08                   |
| For Spring Activated Horizontal Mount Operation, Add   | 44.70                     |                         |
| For Dynamic Damper, Add  | 107.29                    |                         |
| For 3 Hour Rated, Add  | 59.60                     |                         |
| 23 33 13 16-0221 EA 24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 364.21                    | 51.14                   |
| For Spring Activated Horizontal Mount Operation, Add   | 47.39                     |                         |
| For Dynamic Damper, Add  | 113.74                    |                         |
| For 3 Hour Rated, Add  | 63.19                     |                         |
| 23 33 13 16-0222 EA 28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 241.40                    | 28.11                   |
| For Spring Activated Horizontal Mount Operation, Add   | 35.31                     |                         |
| For Dynamic Damper, Add  | 84.74                     |                         |
| For 3 Hour Rated, Add  | 47.08                     |                         |
| 23 33 13 16-0223 EA 28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 255.06                    | 30.72                   |
| For Spring Activated Horizontal Mount Operation, Add   | 36.65                     |                         |
| For Dynamic Damper, Add  | 87.97                     |                         |
| For 3 Hour Rated, Add  | 48.87                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST          | DEMOLITION<br>UNIT COST |
|---|------------------------------------|-------------------------|
| 23 33 13 16-0224 EA 28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 271.67<br>38.66<br>92.79<br>51.55  | 33.17                   |
| 23 33 13 16-0225 EA 28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 285.32<br>40.01<br>96.01<br>53.34  | 35.78                   |
| 23 33 13 16-0226 EA 28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 300.47<br>41.69<br>100.05<br>55.58 | 38.40                   |
| 23 33 13 16-0227 EA 28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 315.56<br>43.36<br>104.06<br>57.81 | 40.85                   |
| 23 33 13 16-0228 EA 28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 339.88<br>45.37<br>108.90<br>60.50 | 46.08                   |
| 23 33 13 16-0229 EA 28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 364.21<br>47.39<br>113.74<br>63.19 | 51.14                   |
| 23 33 13 16-0230 EA 28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 389.79<br>51.42<br>123.41<br>68.56 | 53.76                   |
| 23 33 13 16-0231 EA 28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 420.08<br>54.78<br>131.47<br>73.04 | 58.82                   |
| 23 33 13 16-0232 EA 32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 263.99<br>38.66<br>92.79<br>51.55  | 30.72                   |
| 23 33 13 16-0233 EA 32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 274.64<br>39.33<br>94.39<br>52.44  | 33.17                   |
| 23 33 13 16-0234 EA 32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 285.32<br>40.01<br>96.01<br>53.34  | 35.78                   |
| 23 33 13 16-0235 EA 32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 298.95<br>41.34<br>99.23<br>55.13  | 38.40                   |
| 23 33 13 16-0236 EA 32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 316.13<br>43.49<br>104.37<br>57.98 | 40.85                   |
| 23 33 13 16-0237 EA 32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 339.88<br>45.37<br>108.90<br>60.50 | 46.08                   |
| 23 33 13 16-0238 EA 32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 367.21<br>48.07<br>115.36<br>64.09 | 51.14                   |
| 23 33 13 16-0239 EA 32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 394.50<br>50.75<br>121.80<br>67.67 | 56.21                   |
| 23 33 13 16-0240 EA 32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 420.08<br>54.78<br>131.47<br>73.04 | 58.82                   |
| 23 33 13 16-0241 EA 32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 453.27<br>59.48<br>142.75<br>79.31 | 62.98                   |
| 23 33 13 16-0242 EA 32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 487.88<br>64.85<br>155.64<br>86.47 | 66.50                   |
| 23 33 13 16-0243 EA 36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 295.98<br>44.13<br>105.92<br>58.84 | 33.17                   |
| 23 33 13 16-0244 EA 36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 310.46<br>45.66<br>109.59<br>60.88 | 35.78                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST              | DEMOLITION UNIT COST |
|------------------|-----|-----|---|-------------------------------------|----------------------|
| 23 33 13 16-0245 | EA  |     | 36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 324.95<br>47.19<br>113.27<br>62.93  | 38.40                |
| 23 33 13 16-0246 | EA  |     | 36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 342.86<br>49.50<br>118.80<br>66.00  | 40.85                |
| 23 33 13 16-0247 | EA  |     | 36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 363.36<br>50.66<br>121.58<br>67.54  | 46.08                |
| 23 33 13 16-0248 | EA  |     | 36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 376.15<br>51.81<br>124.34<br>69.08  | 48.53                |
| 23 33 13 16-0249 | EA  |     | 36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 416.24<br>55.64<br>133.54<br>74.19  | 56.21                |
| 23 33 13 16-0250 | EA  |     | 36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 448.64<br>59.48<br>142.74<br>79.30  | 61.44                |
| 23 33 13 16-0251 | EA  |     | 36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 475.25<br>64.08<br>153.80<br>85.44  | 63.43                |
| 23 33 13 16-0252 | EA  |     | 36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 516.36<br>70.22<br>168.52<br>93.62  | 68.04                |
| 23 33 13 16-0253 | EA  |     | 36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 550.96<br>75.59<br>181.41<br>100.78 | 71.57                |
| 23 33 13 16-0254 | EA  |     | 36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 585.93<br>81.73<br>196.14<br>108.97 | 74.18                |
| 23 33 13 16-0255 | EA  |     | 40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 331.50<br>50.40<br>120.95<br>67.19  | 38.40                |
| 23 33 13 16-0256 | EA  |     | 40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 352.82<br>53.46<br>128.31<br>71.29  | 40.85                |
| 23 33 13 16-0257 | EA  |     | 40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 363.89<br>54.23<br>130.16<br>72.31  | 43.46                |
| 23 33 13 16-0258 | EA  |     | 40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 374.99<br>55.00<br>132.00<br>73.34  | 46.08                |
| 23 33 13 16-0259 | EA  |     | 40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 402.30<br>57.69<br>138.46<br>76.92  | 48.53                |
| 23 33 13 16-0260 | EA  |     | 40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 421.91<br>60.37<br>144.90<br>80.50  | 51.14                |
| 23 33 13 16-0261 | EA  |     | 40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 458.59<br>63.44<br>152.26<br>84.59  | 58.82                |
| 23 33 13 16-0262 | EA  |     | 40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 487.60<br>66.51<br>159.63<br>88.69  | 63.89                |
| 23 33 13 16-0263 | EA  |     | 40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 520.37<br>71.12<br>170.69<br>94.83  | 68.04                |
| 23 33 13 16-0264 | EA  |     | 40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 568.62<br>79.56<br>190.94<br>106.08 | 71.57                |
| 23 33 13 16-0265 | EA  |     | 40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 601.34<br>84.16<br>201.98<br>112.21 | 75.72                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|---|--------------------------------------|-------------------------|
| 23 33 13 16-0266 EA 40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 645.04<br>92.61<br>222.25<br>123.47  | 77.71                   |
| 23 33 13 16-0267 EA 40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 691.41<br>100.28<br>240.66<br>133.70 | 81.86                   |
| 23 33 13 16-0268 EA 44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 346.01<br>51.93<br>124.64<br>69.24   | 38.40                   |
| 23 33 13 16-0269 EA 44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 367.31<br>55.00<br>132.00<br>73.34   | 40.85                   |
| 23 33 13 16-0270 EA 44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 385.24<br>57.31<br>137.54<br>76.41   | 43.46                   |
| 23 33 13 16-0271 EA 44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 396.33<br>58.07<br>139.38<br>77.43   | 46.08                   |
| 23 33 13 16-0272 EA 44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 417.65<br>61.14<br>146.75<br>81.53   | 48.53                   |
| 23 33 13 16-0273 EA 44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 438.98<br>64.22<br>154.12<br>85.62   | 51.14                   |
| 23 33 13 16-0274 EA 44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 486.75<br>68.05<br>163.32<br>90.74   | 61.44                   |
| 23 33 13 16-0275 EA 44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 519.14<br>71.88<br>172.52<br>95.84   | 66.50                   |
| 23 33 13 16-0276 EA 44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 568.62<br>79.56<br>190.94<br>106.08  | 71.57                   |
| 23 33 13 16-0277 EA 44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 614.67<br>86.47<br>207.52<br>115.29  | 76.80                   |
| 23 33 13 16-0278 EA 44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 664.11<br>94.13<br>225.92<br>125.51  | 81.86                   |
| 23 33 13 16-0279 EA 44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 702.48<br>101.04<br>242.49<br>134.72 | 84.32                   |
| 23 33 13 16-0280 EA 44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 740.87<br>107.95<br>259.08<br>143.93 | 86.93                   |
| 23 33 13 16-0281 EA 44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 779.26<br>114.86<br>275.66<br>153.14 | 89.54                   |
| 23 33 13 16-0282 EA 48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 363.89<br>54.23<br>130.16<br>72.31   | 40.85                   |
| 23 33 13 16-0283 EA 48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 385.24<br>57.31<br>137.54<br>76.41   | 43.46                   |
| 23 33 13 16-0284 EA 48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 396.33<br>58.07<br>139.38<br>77.43   | 46.08                   |
| 23 33 13 16-0285 EA 48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 421.91<br>60.37<br>144.90<br>80.50   | 51.14                   |
| 23 33 13 16-0286 EA 48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 450.91<br>63.44<br>152.26<br>84.59   | 56.21                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST               | DEMOLITION UNIT COST |
|------------------|-----|-----|---|--------------------------------------|----------------------|
| 23 33 13 16-0287 | EA  |     | 48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 479.92<br>66.51<br>159.63<br>88.69   | 61.44                |
| 23 33 13 16-0288 | EA  |     | 48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 515.75<br>71.12<br>170.69<br>94.83   | 66.50                |
| 23 33 13 16-0289 | EA  |     | 48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 551.55<br>75.72<br>181.73<br>100.96  | 71.57                |
| 23 33 13 16-0290 | EA  |     | 48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 597.62<br>82.63<br>198.31<br>110.17  | 76.80                |
| 23 33 13 16-0291 | EA  |     | 48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 650.47<br>91.06<br>218.55<br>121.42  | 81.86                |
| 23 33 13 16-0292 | EA  |     | 48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 688.87<br>97.98<br>235.14<br>130.64  | 84.32                |
| 23 33 13 16-0293 | EA  |     | 48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 737.45<br>107.18<br>257.23<br>142.91 | 86.93                |
| 23 33 13 16-0294 | EA  |     | 48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 783.54<br>114.09<br>273.82<br>152.12 | 92.00                |
| 23 33 13 16-0295 | EA  |     | 48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 832.13<br>123.30<br>295.91<br>164.40 | 94.61                |
| 23 33 13 16-0296 | EA  |     | 48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 882.46<br>129.44<br>310.65<br>172.58 | 102.29               |
| 23 33 13 16-0297 | EA  |     | 52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 381.82<br>56.54<br>135.69<br>75.38   | 43.46                |
| 23 33 13 16-0298 | EA  |     | 52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 403.14<br>59.61<br>143.06<br>79.48   | 46.08                |
| 23 33 13 16-0299 | EA  |     | 52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 432.15<br>62.68<br>150.43<br>83.57   | 51.14                |
| 23 33 13 16-0300 | EA  |     | 52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 450.91<br>63.44<br>152.26<br>84.59   | 56.21                |
| 23 33 13 16-0301 | EA  |     | 52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 481.64<br>66.90<br>160.56<br>89.20   | 61.44                |
| 23 33 13 16-0302 | EA  |     | 52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 512.33<br>70.35<br>168.84<br>93.80   | 66.50                |
| 23 33 13 16-0303 | EA  |     | 52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 548.16<br>74.96<br>179.90<br>99.94   | 71.57                |
| 23 33 13 16-0304 | EA  |     | 52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 583.98<br>79.56<br>190.94<br>106.08  | 76.80                |
| 23 33 13 16-0305 | EA  |     | 52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 630.03<br>86.47<br>207.52<br>115.29  | 81.86                |
| 23 33 13 16-0306 | EA  |     | 52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 686.30<br>95.67<br>229.61<br>127.56  | 86.93                |
| 23 33 13 16-0307 | EA  |     | 52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 728.08<br>103.34<br>248.02<br>137.79 | 89.54                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 33 13 16-0308 EA 52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 780.11<br>113.32<br>271.97<br>151.10   | 92.00                   |
| 23 33 13 16-0309 EA 52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 836.37<br>122.52<br>294.06<br>163.37   | 97.22                   |
| 23 33 13 16-0310 EA 52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 882.46<br>129.44<br>310.65<br>172.58   | 102.29                  |
| 23 33 13 16-0311 EA 52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 946.41<br>138.64<br>332.74<br>184.86   | 109.97                  |
| 23 33 13 16-0312 EA 52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 995.86<br>146.32<br>351.16<br>195.09   | 115.03                  |
| 23 33 13 16-0313 EA 56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 396.33<br>58.07<br>139.38<br>77.43     | 46.08                   |
| 23 33 13 16-0314 EA 56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 428.72<br>61.91<br>148.58<br>82.54     | 51.14                   |
| 23 33 13 16-0315 EA 56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 454.34<br>64.22<br>154.12<br>85.62     | 56.21                   |
| 23 33 13 16-0316 EA 56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 473.09<br>64.98<br>155.95<br>86.64     | 61.44                   |
| 23 33 13 16-0317 EA 56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 507.22<br>69.20<br>166.08<br>92.27     | 66.50                   |
| 23 33 13 16-0318 EA 56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 541.33<br>73.42<br>176.21<br>97.89     | 71.57                   |
| 23 33 13 16-0319 EA 56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 575.45<br>77.64<br>186.34<br>103.52    | 76.80                   |
| 23 33 13 16-0320 EA 56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 609.56<br>81.86<br>196.46<br>109.15    | 81.86                   |
| 23 33 13 16-0321 EA 56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 665.83<br>91.06<br>218.55<br>121.42    | 86.93                   |
| 23 33 13 16-0322 EA 56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 714.45<br>100.28<br>240.66<br>133.70   | 89.54                   |
| 23 33 13 16-0323 EA 56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 759.64<br>108.72<br>260.92<br>144.95   | 92.00                   |
| 23 33 13 16-0324 EA 56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 822.76<br>119.46<br>286.71<br>159.28   | 97.22                   |
| 23 33 13 16-0325 EA 56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 879.03<br>128.67<br>308.80<br>171.56   | 102.29                  |
| 23 33 13 16-0326 EA 56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 938.73<br>138.64<br>332.74<br>184.86   | 107.35                  |
| 23 33 13 16-0327 EA 56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 988.20<br>146.32<br>351.16<br>195.09   | 112.58                  |
| 23 33 13 16-0328 EA 56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,047.88<br>156.29<br>375.11<br>208.39 | 117.65                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                 | DEMOLITION UNIT COST |
|--|-----|-----|---|--|----------------------|
| 23 33 13 16-0329   | EA  |     | 56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,107.58<br>166.27<br>399.05<br>221.69 | 122.71               |
| 23 33 13 16-0330   | EA  |     | 60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 421.91<br>60.37<br>144.90<br>80.50     | 51.14                |
| 23 33 13 16-0331   | EA  |     | 60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 454.34<br>64.22<br>154.12<br>85.62     | 56.21                |
| 23 33 13 16-0332   | EA  |     | 60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 476.49<br>65.74<br>157.78<br>87.66     | 61.44                |
| 23 33 13 16-0333   | EA  |     | 60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 495.28<br>66.51<br>159.63<br>88.69     | 66.50                |
| 23 33 13 16-0334   | EA  |     | 60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 531.11<br>71.12<br>170.69<br>94.83     | 71.57                |
| 23 33 13 16-0335   | EA  |     | 60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 566.91<br>75.72<br>181.73<br>100.96    | 76.80                |
| 23 33 13 16-0336   | EA  |     | 60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 604.44<br>80.71<br>193.70<br>107.61    | 81.86                |
| 23 33 13 16-0337   | EA  |     | 60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 641.97<br>85.70<br>205.67<br>114.26    | 86.93                |
| 23 33 13 16-0338   | EA  |     | 60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 693.98<br>95.67<br>229.61<br>127.56    | 89.54                |
| 23 33 13 16-0339   | EA  |     | 60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 742.59<br>104.88<br>251.71<br>139.84   | 92.00                |
| 23 33 13 16-0340   | EA  |     | 60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 802.30<br>114.86<br>275.66<br>153.14   | 97.22                |
| 23 33 13 16-0341   | EA  |     | 60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 862.00<br>124.83<br>299.60<br>166.45   | 102.29               |
| 23 33 13 16-0342   | EA  |     | 60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 911.46<br>132.51<br>318.02<br>176.68   | 107.35               |
| 23 33 13 16-0343   | EA  |     | 60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 981.38<br>144.78<br>347.48<br>193.04   | 112.58               |
| 23 33 13 16-0344   | EA  |     | 60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,044.46<br>155.52<br>373.26<br>207.37 | 117.65               |
| 23 33 13 16-0345   | EA  |     | 60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,107.58<br>166.27<br>399.05<br>221.69 | 122.71               |
| 23 33 13 16-0346   | EA  |     | 60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,163.83<br>175.47<br>421.13<br>233.96 | 127.94               |
| 23 33 13 16-0347   | EA  |     | 60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Spring Activated Horizontal Mount Operation, Add</i><br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,220.16<br>184.69<br>443.25<br>246.25 | 133.01               |
| <b>23 33 13 16-0348 Round 2 Hour Fire Damper (23 33 13 16)</b> |     |     |   |  |                      |
| 23 33 13 16-0349   | EA  |     | 4" Round 2 Hour Fire Damper .....   | 140.56                                 | 30.72                |
| 23 33 13 16-0350   | EA  |     | 5" Round 2 Hour Fire Damper .....   | 146.23                                 | 30.72                |
| 23 33 13 16-0351   | EA  |     | 6" Round 2 Hour Fire Damper .....   | 171.60                                 | 34.86                |
| 23 33 13 16-0352   | EA  |     | 7" Round 2 Hour Fire Damper .....   | 177.76                                 | 34.86                |
| 23 33 13 16-0353   | EA  |     | 8" Round 2 Hour Fire Damper .....   | 212.49                                 | 38.40                |
| 23 33 13 16-0354   | EA  |     | 9" Round 2 Hour Fire Damper .....   | 229.44                                 | 38.40                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 16-0355 EA 10" Round 2 Hour Fire Damper .....   | 254.97                    | 42.70                   |
| 23 33 13 16-0356 EA 12" Round 2 Hour Fire Damper .....   | 286.42                    | 48.07                   |
| 23 33 13 16-0357 EA 14" Round 2 Hour Fire Damper .....   | 325.60                    | 54.83                   |
| <b>23 33 13 16-0358 Round 4 Hour Fire Damper (23 33 13 16)</b>   |                           |                         |
| 23 33 13 16-0359 EA 4" Round 4 Hour Fire Damper .....  | 158.43                    | 34.86                   |
| 23 33 13 16-0360 EA 5" Round 4 Hour Fire Damper .....  | 173.87                    | 34.86                   |
| 23 33 13 16-0361 EA 6" Round 4 Hour Fire Damper .....  | 196.51                    | 38.40                   |
| 23 33 13 16-0362 EA 7" Round 4 Hour Fire Damper .....  | 216.43                    | 38.40                   |
| 23 33 13 16-0363 EA 8" Round 4 Hour Fire Damper .....  | 244.93                    | 42.70                   |
| 23 33 13 16-0364 EA 9" Round 4 Hour Fire Damper .....  | 257.07                    | 42.70                   |
| 23 33 13 16-0365 EA 10" Round 4 Hour Fire Damper .....   | 286.79                    | 48.07                   |
| 23 33 13 16-0366 EA 12" Round 4 Hour Fire Damper .....   | 317.88                    | 54.83                   |
| 23 33 13 16-0367 EA 14" Round 4 Hour Fire Damper .....   | 370.87                    | 64.04                   |
| <b>23 33 13 19 Smoke-Control Dampers (23 33 13)</b>  |                           |                         |
| <b>23 33 13 19-0001 Combination Smoke/Fire Damper (23 33 13 19)</b>  |                           |                         |
| Note: Leakage class I with Firestat UL 555S air foil blades.   |                           |                         |
| 23 33 13 19-0002 EA 6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....   | 599.71                    | 25.57                   |
| For Dynamic Damper, Add  | 282.41                    |                         |
| For 3 Hour Rated, Add  | 156.90                    |                         |
| 23 33 13 19-0003 EA 8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....   | 615.92                    | 26.73                   |
| For Dynamic Damper, Add  | 289.31                    |                         |
| For 3 Hour Rated, Add  | 160.73                    |                         |
| 23 33 13 19-0004 EA 8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....   | 629.33                    | 26.96                   |
| For Dynamic Damper, Add  | 296.29                    |                         |
| For 3 Hour Rated, Add  | 164.61                    |                         |
| 23 33 13 19-0005 EA 10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 643.87                    | 26.96                   |
| For Dynamic Damper, Add  | 304.14                    |                         |
| For 3 Hour Rated, Add  | 168.97                    |                         |
| 23 33 13 19-0006 EA 10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 659.36                    | 27.64                   |
| For Dynamic Damper, Add  | 311.27                    |                         |
| For 3 Hour Rated, Add  | 172.93                    |                         |
| 23 33 13 19-0007 EA 10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 695.04                    | 30.64                   |
| For Dynamic Damper, Add  | 325.56                    |                         |
| For 3 Hour Rated, Add  | 180.86                    |                         |
| 23 33 13 19-0008 EA 12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 659.36                    | 27.64                   |
| For Dynamic Damper, Add  | 311.27                    |                         |
| For 3 Hour Rated, Add  | 172.93                    |                         |
| 23 33 13 19-0009 EA 12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 690.42                    | 29.26                   |
| For Dynamic Damper, Add  | 325.56                    |                         |
| For 3 Hour Rated, Add  | 180.86                    |                         |
| 23 33 13 19-0010 EA 12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 708.23                    | 30.64                   |
| For Dynamic Damper, Add  | 332.68                    |                         |
| For 3 Hour Rated, Add  | 184.82                    |                         |
| 23 33 13 19-0011 EA 12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 733.03                    | 34.56                   |
| For Dynamic Damper, Add  | 339.85                    |                         |
| For 3 Hour Rated, Add  | 188.81                    |                         |
| 23 33 13 19-0012 EA 14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 683.83                    | 29.26                   |
| For Dynamic Damper, Add  | 322.00                    |                         |
| For 3 Hour Rated, Add  | 178.89                    |                         |
| 23 33 13 19-0013 EA 14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 708.23                    | 30.64                   |
| For Dynamic Damper, Add  | 332.68                    |                         |
| For 3 Hour Rated, Add  | 184.82                    |                         |
| 23 33 13 19-0014 EA 14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 726.11                    | 32.26                   |
| For Dynamic Damper, Add  | 339.85                    |                         |
| For 3 Hour Rated, Add  | 188.81                    |                         |
| 23 33 13 19-0015 EA 14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 746.30                    | 34.56                   |
| For Dynamic Damper, Add  | 347.01                    |                         |
| For 3 Hour Rated, Add  | 192.79                    |                         |
| 23 33 13 19-0016 EA 14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 790.88                    | 38.47                   |
| For Dynamic Damper, Add  | 364.87                    |                         |
| For 3 Hour Rated, Add  | 202.70                    |                         |
| 23 33 13 19-0017 EA 16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 713.31                    | 30.64                   |
| For Dynamic Damper, Add  | 335.42                    |                         |
| For 3 Hour Rated, Add  | 186.35                    |                         |
| 23 33 13 19-0018 EA 16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 727.71                    | 32.94                   |
| For Dynamic Damper, Add  | 339.47                    |                         |
| For 3 Hour Rated, Add  | 188.60                    |                         |
| 23 33 13 19-0019 EA 16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 744.43                    | 36.17                   |
| For Dynamic Damper, Add  | 343.52                    |                         |
| For 3 Hour Rated, Add  | 190.85                    |                         |
| 23 33 13 19-0020 EA 16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 758.75                    | 38.47                   |
| For Dynamic Damper, Add  | 347.52                    |                         |
| For 3 Hour Rated, Add  | 193.07                    |                         |
| 23 33 13 19-0021 EA 16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 788.97                    | 42.16                   |
| For Dynamic Damper, Add  | 357.63                    |                         |
| For 3 Hour Rated, Add  | 198.68                    |                         |
| 23 33 13 19-0022 EA 16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 819.16                    | 46.08                   |
| For Dynamic Damper, Add  | 367.71                    |                         |
| For 3 Hour Rated, Add  | 204.28                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 19-0023 EA 18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 725.41                    | 32.26                   |
| For Dynamic Damper, Add   | 339.47                    |                         |
| For 3 Hour Rated, Add   | 188.60                    |                         |
| 23 33 13 19-0024 EA 18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 743.50                    | 34.56                   |
| For Dynamic Damper, Add   | 345.50                    |                         |
| For 3 Hour Rated, Add   | 191.95                    |                         |
| 23 33 13 19-0025 EA 18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 766.30                    | 38.47                   |
| For Dynamic Damper, Add   | 351.59                    |                         |
| For 3 Hour Rated, Add   | 195.33                    |                         |
| 23 33 13 19-0026 EA 18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 796.47                    | 42.16                   |
| For Dynamic Damper, Add   | 361.68                    |                         |
| For 3 Hour Rated, Add   | 200.93                    |                         |
| 23 33 13 19-0027 EA 18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 822.89                    | 46.08                   |
| For Dynamic Damper, Add   | 369.72                    |                         |
| For 3 Hour Rated, Add   | 205.40                    |                         |
| 23 33 13 19-0028 EA 18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 853.08                    | 49.76                   |
| For Dynamic Damper, Add   | 379.80                    |                         |
| For 3 Hour Rated, Add   | 211.00                    |                         |
| 23 33 13 19-0029 EA 18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 875.83                    | 53.68                   |
| For Dynamic Damper, Add   | 385.87                    |                         |
| For 3 Hour Rated, Add   | 214.37                    |                         |
| 23 33 13 19-0030 EA 20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 739.83                    | 34.56                   |
| For Dynamic Damper, Add   | 343.52                    |                         |
| For 3 Hour Rated, Add   | 190.85                    |                         |
| 23 33 13 19-0031 EA 20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 766.25                    | 38.47                   |
| For Dynamic Damper, Add   | 351.57                    |                         |
| For 3 Hour Rated, Add   | 195.32                    |                         |
| 23 33 13 19-0032 EA 20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 792.69                    | 42.16                   |
| For Dynamic Damper, Add   | 359.63                    |                         |
| For 3 Hour Rated, Add   | 199.80                    |                         |
| 23 33 13 19-0033 EA 20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 834.16                    | 46.08                   |
| For Dynamic Damper, Add   | 375.81                    |                         |
| For 3 Hour Rated, Add   | 208.78                    |                         |
| 23 33 13 19-0034 EA 20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 856.86                    | 49.76                   |
| For Dynamic Damper, Add   | 381.84                    |                         |
| For 3 Hour Rated, Add   | 212.14                    |                         |
| 23 33 13 19-0035 EA 20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 879.55                    | 53.68                   |
| For Dynamic Damper, Add   | 387.88                    |                         |
| For 3 Hour Rated, Add   | 215.49                    |                         |
| 23 33 13 19-0036 EA 20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 906.02                    | 57.60                   |
| For Dynamic Damper, Add   | 395.95                    |                         |
| For 3 Hour Rated, Add   | 219.97                    |                         |
| 23 33 13 19-0037 EA 20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 932.44                    | 61.28                   |
| For Dynamic Damper, Add   | 404.00                    |                         |
| For 3 Hour Rated, Add   | 224.44                    |                         |
| 23 33 13 19-0038 EA 24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 759.36                    | 38.47                   |
| For Dynamic Damper, Add   | 347.85                    |                         |
| For 3 Hour Rated, Add   | 193.25                    |                         |
| 23 33 13 19-0039 EA 24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 785.97                    | 42.16                   |
| For Dynamic Damper, Add   | 356.01                    |                         |
| For 3 Hour Rated, Add   | 197.78                    |                         |
| 23 33 13 19-0040 EA 24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 807.59                    | 46.08                   |
| For Dynamic Damper, Add   | 361.46                    |                         |
| For 3 Hour Rated, Add   | 200.81                    |                         |
| 23 33 13 19-0041 EA 24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 834.17                    | 49.76                   |
| For Dynamic Damper, Add   | 369.59                    |                         |
| For 3 Hour Rated, Add   | 205.33                    |                         |
| 23 33 13 19-0042 EA 24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 853.24                    | 53.68                   |
| For Dynamic Damper, Add   | 373.67                    |                         |
| For 3 Hour Rated, Add   | 207.59                    |                         |
| 23 33 13 19-0043 EA 24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 872.29                    | 57.60                   |
| For Dynamic Damper, Add   | 377.74                    |                         |
| For 3 Hour Rated, Add   | 209.85                    |                         |
| 23 33 13 19-0044 EA 24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 898.90                    | 61.28                   |
| For Dynamic Damper, Add   | 385.88                    |                         |
| For 3 Hour Rated, Add   | 214.38                    |                         |
| 23 33 13 19-0045 EA 24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 937.02                    | 69.12                   |
| For Dynamic Damper, Add   | 394.03                    |                         |
| For 3 Hour Rated, Add   | 218.90                    |                         |
| 23 33 13 19-0046 EA 24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 980.19                    | 76.72                   |
| For Dynamic Damper, Add   | 404.90                    |                         |
| For 3 Hour Rated, Add   | 224.94                    |                         |
| 23 33 13 19-0047 EA 28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 785.97                    | 42.16                   |
| For Dynamic Damper, Add   | 356.01                    |                         |
| For 3 Hour Rated, Add   | 197.78                    |                         |
| 23 33 13 19-0048 EA 28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 807.59                    | 46.08                   |
| For Dynamic Damper, Add   | 361.46                    |                         |
| For 3 Hour Rated, Add   | 200.81                    |                         |
| 23 33 13 19-0049 EA 28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 834.17                    | 49.76                   |
| For Dynamic Damper, Add   | 369.59                    |                         |
| For 3 Hour Rated, Add   | 205.33                    |                         |
| 23 33 13 19-0050 EA 28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 855.75                    | 53.68                   |
| For Dynamic Damper, Add   | 375.02                    |                         |
| For 3 Hour Rated, Add   | 208.35                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|--|------------------------------|-------------------------|
| 23 33 13 19-0051 EA 28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 879.85<br>381.82<br>212.12   | 57.60                   |
| 23 33 13 19-0052 EA 28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 903.91<br>388.59<br>215.88   | 61.28                   |
| 23 33 13 19-0053 EA 28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 942.04<br>396.74<br>220.41   | 69.12                   |
| 23 33 13 19-0054 EA 28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 980.19<br>404.90<br>224.94   | 76.72                   |
| 23 33 13 19-0055 EA 28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,021.88<br>421.19<br>233.99 | 80.64                   |
| 23 33 13 19-0056 EA 28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,070.08<br>434.78<br>241.54 | 88.24                   |
| 23 33 13 19-0057 EA 32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 822.65<br>369.59<br>205.33   | 46.08                   |
| 23 33 13 19-0058 EA 32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 839.18<br>372.30<br>206.83   | 49.76                   |
| 23 33 13 19-0059 EA 32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 855.75<br>375.02<br>208.35   | 53.68                   |
| 23 33 13 19-0060 EA 32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 877.31<br>380.45<br>211.36   | 57.60                   |
| 23 33 13 19-0061 EA 32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 904.85<br>389.10<br>216.17   | 61.28                   |
| 23 33 13 19-0062 EA 32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 942.04<br>396.74<br>220.41   | 69.12                   |
| 23 33 13 19-0063 EA 32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 985.25<br>407.63<br>226.46   | 76.72                   |
| 23 33 13 19-0064 EA 32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,028.42<br>418.50<br>232.50 | 84.32                   |
| 23 33 13 19-0065 EA 32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,070.08<br>434.78<br>241.54 | 88.24                   |
| 23 33 13 19-0066 EA 32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,123.75<br>453.81<br>252.12 | 94.46                   |
| 23 33 13 19-0067 EA 32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,180.09<br>475.52<br>264.18 | 99.76                   |
| 23 33 13 19-0068 EA 36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 865.00<br>386.24<br>214.58   | 49.76                   |
| 23 33 13 19-0069 EA 36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 887.43<br>392.13<br>217.85   | 53.68                   |
| 23 33 13 19-0070 EA 36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 909.88<br>398.03<br>221.13   | 57.60                   |
| 23 33 13 19-0071 EA 36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 937.83<br>406.91<br>226.06   | 61.28                   |
| 23 33 13 19-0072 EA 36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 969.10<br>411.35<br>228.53   | 69.12                   |
| 23 33 13 19-0073 EA 36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 988.81<br>415.77<br>230.99   | 72.80                   |
| 23 33 13 19-0074 EA 36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,050.73<br>430.55<br>239.19 | 84.32                   |
| 23 33 13 19-0075 EA 36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,101.06<br>445.28<br>247.38 | 92.16                   |
| 23 33 13 19-0076 EA 36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,143.09<br>463.00<br>257.22 | 95.15                   |
| 23 33 13 19-0077 EA 36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,207.56<br>486.63<br>270.35 | 102.06                  |
| 23 33 13 19-0078 EA 36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,261.93<br>507.27<br>281.82 | 107.35                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 19-0079 EA 36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,317.20                  | 111.27                  |
| <i>For Dynamic Damper, Add</i>  | 530.90                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 294.94                    |                         |
| 23 33 13 19-0080 EA 40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 1,375.61                  | 57.60                   |
| <i>For Dynamic Damper, Add</i>  | 655.75                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 364.31                    |                         |
| 23 33 13 19-0081 EA 40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 1,416.44                  | 61.28                   |
| <i>For Dynamic Damper, Add</i>  | 671.58                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 373.10                    |                         |
| 23 33 13 19-0082 EA 40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,435.33                  | 65.20                   |
| <i>For Dynamic Damper, Add</i>  | 675.56                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 375.31                    |                         |
| 23 33 13 19-0083 EA 40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,454.21                  | 69.12                   |
| <i>For Dynamic Damper, Add</i>  | 679.53                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 377.52                    |                         |
| 23 33 13 19-0084 EA 40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,502.93                  | 72.80                   |
| <i>For Dynamic Damper, Add</i>  | 693.40                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 385.22                    |                         |
| 23 33 13 19-0085 EA 40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,540.18                  | 76.72                   |
| <i>For Dynamic Damper, Add</i>  | 707.29                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 392.94                    |                         |
| 23 33 13 19-0086 EA 40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,604.10                  | 88.24                   |
| <i>For Dynamic Damper, Add</i>  | 723.15                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 401.75                    |                         |
| 23 33 13 19-0087 EA 40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,656.46                  | 95.84                   |
| <i>For Dynamic Damper, Add</i>  | 738.98                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 410.54                    |                         |
| 23 33 13 19-0088 EA 40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,718.96                  | 102.06                  |
| <i>For Dynamic Damper, Add</i>  | 762.78                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 423.77                    |                         |
| 23 33 13 19-0089 EA 40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,815.78                  | 107.35                  |
| <i>For Dynamic Damper, Add</i>  | 806.35                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 447.97                    |                         |
| 23 33 13 19-0090 EA 40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,878.20                  | 113.58                  |
| <i>For Dynamic Damper, Add</i>  | 830.11                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 461.17                    |                         |
| 23 33 13 19-0091 EA 40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,968.19                  | 116.57                  |
| <i>For Dynamic Damper, Add</i>  | 873.73                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 485.40                    |                         |
| 23 33 13 19-0092 EA 40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 2,060.01                  | 122.79                  |
| <i>For Dynamic Damper, Add</i>  | 913.36                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 507.42                    |                         |
| 23 33 13 19-0093 EA 44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 1,401.81                  | 57.60                   |
| <i>For Dynamic Damper, Add</i>  | 663.68                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 368.71                    |                         |
| 23 33 13 19-0094 EA 44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....  | 1,442.69                  | 61.28                   |
| <i>For Dynamic Damper, Add</i>  | 679.53                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 377.52                    |                         |
| 23 33 13 19-0095 EA 44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,476.25                  | 65.20                   |
| <i>For Dynamic Damper, Add</i>  | 691.43                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 384.13                    |                         |
| 23 33 13 19-0096 EA 44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,495.14                  | 69.12                   |
| <i>For Dynamic Damper, Add</i>  | 695.41                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 386.34                    |                         |
| 23 33 13 19-0097 EA 44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,536.02                  | 72.80                   |
| <i>For Dynamic Damper, Add</i>  | 711.27                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 395.15                    |                         |
| 23 33 13 19-0098 EA 44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,576.86                  | 76.72                   |
| <i>For Dynamic Damper, Add</i>  | 727.10                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 403.94                    |                         |
| 23 33 13 19-0099 EA 44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,659.66                  | 92.16                   |
| <i>For Dynamic Damper, Add</i>  | 746.93                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 414.96                    |                         |
| 23 33 13 19-0100 EA 44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,719.34                  | 99.76                   |
| <i>For Dynamic Damper, Add</i>  | 766.71                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 425.95                    |                         |
| 23 33 13 19-0101 EA 44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,815.78                  | 107.35                  |
| <i>For Dynamic Damper, Add</i>  | 806.35                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 447.97                    |                         |
| 23 33 13 19-0102 EA 44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 1,904.84                  | 115.20                  |
| <i>For Dynamic Damper, Add</i>  | 842.01                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 467.78                    |                         |
| 23 33 13 19-0103 EA 44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 2,001.24                  | 122.79                  |
| <i>For Dynamic Damper, Add</i>  | 881.63                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 489.79                    |                         |
| 23 33 13 19-0104 EA 44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 2,078.81                  | 126.48                  |
| <i>For Dynamic Damper, Add</i>  | 917.29                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 509.61                    |                         |
| 23 33 13 19-0105 EA 44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 2,156.41                  | 130.39                  |
| <i>For Dynamic Damper, Add</i>  | 952.98                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 529.43                    |                         |
| 23 33 13 19-0106 EA 44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... | 2,234.02                  | 134.31                  |
| <i>For Dynamic Damper, Add</i>  | 988.66                    |                         |
| <i>For 3 Hour Rated, Add</i>  | 549.26                    |                         |



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

Air Duct Accessories

23 33

23

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST         | DEMOLITION UNIT COST |
|------------------|-----|-----|---|--------------------------------|----------------------|
| 23 33 13 19-0107 | EA  |     | 48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,435.33<br>675.56<br>375.31   | 61.28                |
| 23 33 13 19-0108 | EA  |     | 48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,476.25<br>691.43<br>384.13   | 65.20                |
| 23 33 13 19-0109 | EA  |     | 48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,495.14<br>695.41<br>386.34   | 69.12                |
| 23 33 13 19-0110 | EA  |     | 48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,540.18<br>707.29<br>392.94   | 76.72                |
| 23 33 13 19-0111 | EA  |     | 48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,592.58<br>723.15<br>401.75   | 84.32                |
| 23 33 13 19-0112 | EA  |     | 48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,644.94<br>738.98<br>410.54   | 92.16                |
| 23 33 13 19-0113 | EA  |     | 48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,712.06<br>762.78<br>423.77   | 99.76                |
| 23 33 13 19-0114 | EA  |     | 48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,779.10<br>786.54<br>436.97   | 107.35               |
| 23 33 13 19-0115 | EA  |     | 48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,868.16<br>822.20<br>456.78   | 115.20               |
| 23 33 13 19-0116 | EA  |     | 48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,971.88<br>865.77<br>480.98   | 122.79               |
| 23 33 13 19-0117 | EA  |     | 48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,049.53<br>901.48<br>500.82   | 126.48               |
| 23 33 13 19-0118 | EA  |     | 48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,149.05<br>949.00<br>527.22   | 130.39               |
| 23 33 13 19-0119 | EA  |     | 48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,238.18<br>984.69<br>547.05   | 137.99               |
| 23 33 13 19-0120 | EA  |     | 48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,337.78<br>1,032.25<br>573.47 | 141.91               |
| 23 33 13 19-0121 | EA  |     | 48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,431.02<br>1,063.94<br>591.08 | 153.43               |
| 23 33 13 19-0122 | EA  |     | 52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,468.89<br>687.46<br>381.92   | 65.20                |
| 23 33 13 19-0123 | EA  |     | 52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,509.77<br>703.31<br>390.73   | 69.12                |
| 23 33 13 19-0124 | EA  |     | 52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,562.17<br>719.17<br>399.54   | 76.72                |
| 23 33 13 19-0125 | EA  |     | 52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,592.58<br>723.15<br>401.75   | 84.32                |
| 23 33 13 19-0126 | EA  |     | 52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,648.66<br>740.99<br>411.66   | 92.16                |
| 23 33 13 19-0127 | EA  |     | 52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,704.70<br>758.81<br>421.56   | 99.76                |
| 23 33 13 19-0128 | EA  |     | 52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,771.78<br>782.59<br>434.77   | 107.35               |
| 23 33 13 19-0129 | EA  |     | 52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,838.80<br>806.35<br>447.97   | 115.20               |
| 23 33 13 19-0130 | EA  |     | 52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,927.88<br>842.01<br>467.78   | 122.79               |
| 23 33 13 19-0131 | EA  |     | 52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,039.01<br>889.58<br>494.21   | 130.39               |
| 23 33 13 19-0132 | EA  |     | 52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,123.84<br>929.17<br>516.20   | 134.31               |
| 23 33 13 19-0133 | EA  |     | 52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,230.86<br>980.74<br>544.85   | 137.99               |
| 23 33 13 19-0134 | EA  |     | 52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,341.89<br>1,028.25<br>571.25 | 145.83               |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|---|--------------------------------|-------------------------|
| 23 33 13 19-0135 EA 52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,431.02<br>1,063.94<br>591.08 | 153.43                  |
| 23 33 13 19-0136 EA 52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,553.62<br>1,111.48<br>617.49 | 164.95                  |
| 23 33 13 19-0137 EA 52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,650.07<br>1,151.12<br>639.51 | 172.55                  |
| 23 33 13 19-0138 EA 56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,495.14<br>695.41<br>386.34   | 69.12                   |
| 23 33 13 19-0139 EA 56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,554.81<br>715.19<br>397.33   | 76.72                   |
| 23 33 13 19-0140 EA 56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,599.90<br>727.10<br>403.94   | 84.32                   |
| 23 33 13 19-0141 EA 56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,630.25<br>731.05<br>406.14   | 92.16                   |
| 23 33 13 19-0142 EA 56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,693.70<br>752.87<br>418.26   | 99.76                   |
| 23 33 13 19-0143 EA 56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,757.10<br>774.66<br>430.37   | 107.35                  |
| 23 33 13 19-0144 EA 56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,820.44<br>796.44<br>442.46   | 115.20                  |
| 23 33 13 19-0145 EA 56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,883.84<br>818.23<br>454.57   | 122.79                  |
| 23 33 13 19-0146 EA 56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,994.92<br>865.77<br>480.98   | 130.39                  |
| 23 33 13 19-0147 EA 56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,094.57<br>913.36<br>507.42   | 134.31                  |
| 23 33 13 19-0148 EA 56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,186.77<br>956.93<br>531.63   | 137.99                  |
| 23 33 13 19-0149 EA 56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,312.58<br>1,012.42<br>562.46 | 145.83                  |
| 23 33 13 19-0150 EA 56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,423.66<br>1,059.97<br>588.87 | 153.43                  |
| 23 33 13 19-0151 EA 56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,542.10<br>1,111.48<br>617.49 | 161.03                  |
| 23 33 13 19-0152 EA 56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,638.55<br>1,151.12<br>639.51 | 168.87                  |
| 23 33 13 19-0153 EA 56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,756.99<br>1,202.64<br>668.13 | 176.47                  |
| 23 33 13 19-0154 EA 56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,875.44<br>1,254.16<br>696.76 | 184.07                  |
| 23 33 13 19-0155 EA 60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,540.18<br>707.29<br>392.94   | 76.72                   |
| 23 33 13 19-0156 EA 60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 1,599.90<br>727.10<br>403.94   | 84.32                   |
| 23 33 13 19-0157 EA 60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,637.62<br>735.03<br>408.35   | 92.16                   |
| 23 33 13 19-0158 EA 60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,667.98<br>738.98<br>410.54   | 99.76                   |
| 23 33 13 19-0159 EA 60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,735.10<br>762.78<br>423.77   | 107.35                  |
| 23 33 13 19-0160 EA 60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,802.12<br>786.54<br>436.97   | 115.20                  |
| 23 33 13 19-0161 EA 60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,872.84<br>812.29<br>451.27   | 122.79                  |
| 23 33 13 19-0162 EA 60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,943.60<br>838.06<br>465.59   | 130.39                  |



**Heating, Ventilating, and Air-Conditioning (HVAC)**

**23**

**HVAC Air Distribution**

**23 30**

**Air Duct Accessories**

**23 33**

23

| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST         | DEMOLITION UNIT COST |
|---|-----|-----|--|--------------------------------|----------------------|
| 23 33 13 19-0163  | EA  |     | 60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,050.53<br>889.58<br>494.21   | 134.31               |
| 23 33 13 19-0164  | EA  |     | 60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,150.09<br>937.12<br>520.62   | 137.99               |
| 23 33 13 19-0165  | EA  |     | 60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,268.58<br>988.66<br>549.26   | 145.83               |
| 23 33 13 19-0166  | EA  |     | 60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,387.02<br>1,040.18<br>577.88 | 153.43               |
| 23 33 13 19-0167  | EA  |     | 60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,483.42<br>1,079.79<br>599.89 | 161.03               |
| 23 33 13 19-0168  | EA  |     | 60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,623.87<br>1,143.20<br>635.11 | 168.87               |
| 23 33 13 19-0169  | EA  |     | 60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,749.67<br>1,198.69<br>665.94 | 176.47               |
| 23 33 13 19-0170  | EA  |     | 60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,875.44<br>1,254.16<br>696.76 | 184.07               |
| 23 33 13 19-0171  | EA  |     | 60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 2,986.45<br>1,301.68<br>723.15 | 191.91               |
| 23 33 13 19-0172  | EA  |     | 60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 3,097.67<br>1,349.29<br>749.61 | 199.51               |
| <b>23 33 13 19-0173 Smoke Damper</b> <small>(23 33 13 19)</small> |     |     |  |                                |                      |
| Note: Leakage class I with Firestat UL 555S air foil blades.      |     |     |  |                                |                      |
| 23 33 13 19-0174  | EA  |     | 6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                    | 139.53<br>47.73<br>26.52       | 17.05                |
| 23 33 13 19-0175  | EA  |     | 8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                    | 144.06<br>48.93<br>27.18       | 17.81                |
| 23 33 13 19-0176  | EA  |     | 8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                    | 146.62<br>50.14<br>27.86       | 17.97                |
| 23 33 13 19-0177  | EA  |     | 10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 146.62<br>50.14<br>27.86       | 17.97                |
| 23 33 13 19-0178  | EA  |     | 10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 150.39<br>51.35<br>28.53       | 18.44                |
| 23 33 13 19-0179  | EA  |     | 10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                  | 161.00<br>53.76<br>29.87       | 20.43                |
| 23 33 13 19-0180  | EA  |     | 12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 150.39<br>51.35<br>28.53       | 18.44                |
| 23 33 13 19-0181  | EA  |     | 12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 157.92<br>53.76<br>29.87       | 19.50                |
| 23 33 13 19-0182  | EA  |     | 12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                  | 163.25<br>54.98<br>30.54       | 20.43                |
| 23 33 13 19-0183  | EA  |     | 12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                  | 173.16<br>56.18<br>31.21       | 23.04                |
| 23 33 13 19-0184  | EA  |     | 14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 156.81<br>53.16<br>29.54       | 19.50                |
| 23 33 13 19-0185  | EA  |     | 14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 163.25<br>54.98<br>30.54       | 20.43                |
| 23 33 13 19-0186  | EA  |     | 14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                  | 168.54<br>56.18<br>31.21       | 21.50                |
| 23 33 13 19-0187  | EA  |     | 14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                  | 175.41<br>57.40<br>31.89       | 23.04                |
| 23 33 13 19-0188  | EA  |     | 14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                  | 188.68<br>60.42<br>33.56       | 25.65                |
| 23 33 13 19-0189  | EA  |     | 16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 244.75<br>98.99<br>54.99       | 20.43                |
| 23 33 13 19-0190  | EA  |     | 16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>                   | 251.58<br>100.19<br>55.66      | 21.96                |

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST    | DEMOLITION UNIT COST |
|----------|---------|-----|---|---------------------------|----------------------|
| 23 33 13 | 19-0191 | EA  | 16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 259.97<br>101.41<br>56.34 | 24.11                |
| 23 33 13 | 19-0192 | EA  | 16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 266.81<br>102.61<br>57.00 | 25.65                |
| 23 33 13 | 19-0193 | EA  | 16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 280.11<br>105.64<br>58.69 | 28.11                |
| 23 33 13 | 19-0194 | EA  | 16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 293.38<br>108.66<br>60.37 | 30.72                |
| 23 33 13 | 19-0195 | EA  | 18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i>  | 250.04<br>100.19<br>55.66 | 21.50                |
| 23 33 13 | 19-0196 | EA  | 18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i>  | 258.02<br>102.01<br>56.67 | 23.04                |
| 23 33 13 | 19-0197 | EA  | 18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 269.07<br>103.83<br>57.68 | 25.65                |
| 23 33 13 | 19-0198 | EA  | 18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 282.35<br>106.85<br>59.36 | 28.11                |
| 23 33 13 | 19-0199 | EA  | 18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 294.49<br>109.26<br>60.70 | 30.72                |
| 23 33 13 | 19-0200 | EA  | 18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 307.78<br>112.29<br>62.38 | 33.17                |
| 23 33 13 | 19-0201 | EA  | 18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 318.82<br>114.10<br>63.39 | 35.78                |
| 23 33 13 | 19-0202 | EA  | 20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i>  | 256.91<br>101.41<br>56.34 | 23.04                |
| 23 33 13 | 19-0203 | EA  | 20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i>  | 269.06<br>103.82<br>57.68 | 25.65                |
| 23 33 13 | 19-0204 | EA  | 20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 281.22<br>106.24<br>59.02 | 28.11                |
| 23 33 13 | 19-0205 | EA  | 20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 297.87<br>111.08<br>61.71 | 30.72                |
| 23 33 13 | 19-0206 | EA  | 20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 308.90<br>112.89<br>62.72 | 33.17                |
| 23 33 13 | 19-0207 | EA  | 20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 319.94<br>114.71<br>63.73 | 35.78                |
| 23 33 13 | 19-0208 | EA  | 20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 332.09<br>117.12<br>65.07 | 38.40                |
| 23 33 13 | 19-0209 | EA  | 20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 344.21<br>119.53<br>66.41 | 40.85                |
| 23 33 13 | 19-0210 | EA  | 24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i>  | 336.49<br>140.23<br>77.91 | 25.65                |
| 23 33 13 | 19-0211 | EA  | 24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i>  | 350.90<br>143.87<br>79.93 | 28.11                |
| 23 33 13 | 19-0212 | EA  | 24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 363.07<br>146.29<br>81.27 | 30.72                |
| 23 33 13 | 19-0213 | EA  | 24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 377.46<br>149.91<br>83.29 | 33.17                |
| 23 33 13 | 19-0214 | EA  | 24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 388.50<br>151.73<br>84.29 | 35.78                |
| 23 33 13 | 19-0215 | EA  | 24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 399.52<br>153.53<br>85.30 | 38.40                |
| 23 33 13 | 19-0216 | EA  | 24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 413.90<br>157.16<br>87.31 | 40.85                |
| 23 33 13 | 19-0217 | EA  | 24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 435.97<br>160.79<br>89.33 | 46.08                |
| 23 33 13 | 19-0218 | EA  | 24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add<br/>For 3 Hour Rated, Add</i> | 460.30<br>165.63<br>92.02 | 51.14                |



Heating, Ventilating, and Air-Conditioning (HVAC) 23

HVAC Air Distribution 23 30

Air Duct Accessories 23 33

23

23

Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Contains multiple rows of HVAC damper specifications and costs.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 19-0247 EA 36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 519.35                    | 61.44                   |
| For Dynamic Damper, Add   | 180.93                    |                         |
| For 3 Hour Rated, Add   | 100.52                    |                         |
| 23 33 13 19-0248 EA 36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 539.57                    | 63.43                   |
| For Dynamic Damper, Add   | 188.53                    |                         |
| For 3 Hour Rated, Add   | 104.74                    |                         |
| 23 33 13 19-0249 EA 36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 572.15                    | 68.04                   |
| For Dynamic Damper, Add   | 198.65                    |                         |
| For 3 Hour Rated, Add   | 110.36                    |                         |
| 23 33 13 19-0250 EA 36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 599.31                    | 71.57                   |
| For Dynamic Damper, Add   | 207.52                    |                         |
| For 3 Hour Rated, Add   | 115.29                    |                         |
| 23 33 13 19-0251 EA 36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 625.75                    | 74.18                   |
| For Dynamic Damper, Add   | 217.65                    |                         |
| For 3 Hour Rated, Add   | 120.92                    |                         |
| 23 33 13 19-0252 EA 40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 446.92                    | 38.40                   |
| For Dynamic Damper, Add   | 183.28                    |                         |
| For 3 Hour Rated, Add   | 101.82                    |                         |
| 23 33 13 19-0253 EA 40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 463.97                    | 40.85                   |
| For Dynamic Damper, Add   | 188.34                    |                         |
| For 3 Hour Rated, Add   | 104.63                    |                         |
| 23 33 13 19-0254 EA 40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 473.98                    | 43.46                   |
| For Dynamic Damper, Add   | 189.60                    |                         |
| For 3 Hour Rated, Add   | 105.34                    |                         |
| 23 33 13 19-0255 EA 40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 484.01                    | 46.08                   |
| For Dynamic Damper, Add   | 190.87                    |                         |
| For 3 Hour Rated, Add   | 106.04                    |                         |
| 23 33 13 19-0256 EA 40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 507.58                    | 48.53                   |
| For Dynamic Damper, Add   | 195.31                    |                         |
| For 3 Hour Rated, Add   | 108.50                    |                         |
| 23 33 13 19-0257 EA 40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 523.48                    | 51.14                   |
| For Dynamic Damper, Add   | 199.75                    |                         |
| For 3 Hour Rated, Add   | 110.97                    |                         |
| 23 33 13 19-0258 EA 40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 555.89                    | 58.82                   |
| For Dynamic Damper, Add   | 204.81                    |                         |
| For 3 Hour Rated, Add   | 113.78                    |                         |
| 23 33 13 19-0259 EA 40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 580.64                    | 63.89                   |
| For Dynamic Damper, Add   | 209.88                    |                         |
| For 3 Hour Rated, Add   | 116.60                    |                         |
| 23 33 13 19-0260 EA 40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 607.00                    | 68.04                   |
| For Dynamic Damper, Add   | 217.47                    |                         |
| For 3 Hour Rated, Add   | 120.82                    |                         |
| 23 33 13 19-0261 EA 40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 643.53                    | 71.57                   |
| For Dynamic Damper, Add   | 231.40                    |                         |
| For 3 Hour Rated, Add   | 128.55                    |                         |
| 23 33 13 19-0262 EA 40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 669.86                    | 75.72                   |
| For Dynamic Damper, Add   | 238.98                    |                         |
| For 3 Hour Rated, Add   | 132.77                    |                         |
| 23 33 13 19-0263 EA 40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 701.82                    | 77.71                   |
| For Dynamic Damper, Add   | 252.91                    |                         |
| For 3 Hour Rated, Add   | 140.51                    |                         |
| 23 33 13 19-0264 EA 40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 737.56                    | 81.86                   |
| For Dynamic Damper, Add   | 265.58                    |                         |
| For 3 Hour Rated, Add   | 147.55                    |                         |
| 23 33 13 19-0265 EA 44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 459.29                    | 38.40                   |
| For Dynamic Damper, Add   | 185.81                    |                         |
| For 3 Hour Rated, Add   | 103.23                    |                         |
| 23 33 13 19-0266 EA 44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....  | 476.33                    | 40.85                   |
| For Dynamic Damper, Add   | 190.87                    |                         |
| For 3 Hour Rated, Add   | 106.04                    |                         |
| 23 33 13 19-0267 EA 44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 491.06                    | 43.46                   |
| For Dynamic Damper, Add   | 194.68                    |                         |
| For 3 Hour Rated, Add   | 108.16                    |                         |
| 23 33 13 19-0268 EA 44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 501.09                    | 46.08                   |
| For Dynamic Damper, Add   | 195.95                    |                         |
| For 3 Hour Rated, Add   | 108.86                    |                         |
| 23 33 13 19-0269 EA 44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 518.14                    | 48.53                   |
| For Dynamic Damper, Add   | 201.01                    |                         |
| For 3 Hour Rated, Add   | 111.67                    |                         |
| 23 33 13 19-0270 EA 44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 535.20                    | 51.14                   |
| For Dynamic Damper, Add   | 206.07                    |                         |
| For 3 Hour Rated, Add   | 114.49                    |                         |
| 23 33 13 19-0271 EA 44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 577.65                    | 61.44                   |
| For Dynamic Damper, Add   | 212.41                    |                         |
| For 3 Hour Rated, Add   | 118.01                    |                         |
| 23 33 13 19-0272 EA 44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 604.72                    | 66.50                   |
| For Dynamic Damper, Add   | 218.73                    |                         |
| For 3 Hour Rated, Add   | 121.52                    |                         |
| 23 33 13 19-0273 EA 44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 643.53                    | 71.57                   |
| For Dynamic Damper, Add   | 231.40                    |                         |
| For 3 Hour Rated, Add   | 128.55                    |                         |
| 23 33 13 19-0274 EA 44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... | 680.00                    | 76.80                   |
| For Dynamic Damper, Add   | 242.79                    |                         |
| For 3 Hour Rated, Add   | 134.89                    |                         |



|  |           |
|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b> |
| HVAC Air Distribution                                    | 23 30     |
| Air Duct Accessories                                     | 23 33     |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|----------------------------|-------------------------|
| 23 33 13 19-0275 EA 44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 718.78<br>255.44<br>141.91 | 81.86                   |
| 23 33 13 19-0276 EA 44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 747.57<br>266.84<br>148.25 | 84.32                   |
| 23 33 13 19-0277 EA 44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 776.36<br>278.24<br>154.58 | 86.93                   |
| 23 33 13 19-0278 EA 44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 805.15<br>289.64<br>160.91 | 89.54                   |
| 23 33 13 19-0279 EA 48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 473.98<br>189.60<br>105.34 | 40.85                   |
| 23 33 13 19-0280 EA 48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 491.06<br>194.68<br>108.16 | 43.46                   |
| 23 33 13 19-0281 EA 48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 501.09<br>195.95<br>108.86 | 46.08                   |
| 23 33 13 19-0282 EA 48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 523.48<br>199.75<br>110.97 | 51.14                   |
| 23 33 13 19-0283 EA 48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 548.21<br>204.81<br>113.78 | 56.21                   |
| 23 33 13 19-0284 EA 48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 572.96<br>209.88<br>116.60 | 61.44                   |
| 23 33 13 19-0285 EA 48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 602.38<br>217.47<br>120.82 | 66.50                   |
| 23 33 13 19-0286 EA 48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 631.79<br>225.06<br>125.03 | 71.57                   |
| 23 33 13 19-0287 EA 48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 668.26<br>236.46<br>131.36 | 76.80                   |
| 23 33 13 19-0288 EA 48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 709.41<br>250.38<br>139.10 | 81.86                   |
| 23 33 13 19-0289 EA 48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 738.21<br>261.79<br>145.44 | 84.32                   |
| 23 33 13 19-0290 EA 48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 774.01<br>276.97<br>153.87 | 86.93                   |
| 23 33 13 19-0291 EA 48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 810.48<br>288.37<br>160.21 | 92.00                   |
| 23 33 13 19-0292 EA 48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 846.29<br>303.56<br>168.65 | 94.61                   |
| 23 33 13 19-0293 EA 48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 888.10<br>313.70<br>174.28 | 102.29                  |
| 23 33 13 19-0294 EA 52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 488.72<br>193.42<br>107.45 | 43.46                   |
| 23 33 13 19-0295 EA 52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 505.77<br>198.48<br>110.27 | 46.08                   |
| 23 33 13 19-0296 EA 52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 530.50<br>203.54<br>113.08 | 51.14                   |
| 23 33 13 19-0297 EA 52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 548.21<br>204.81<br>113.78 | 56.21                   |
| 23 33 13 19-0298 EA 52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 574.13<br>210.51<br>116.95 | 61.44                   |
| 23 33 13 19-0299 EA 52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 600.04<br>216.21<br>120.11 | 66.50                   |
| 23 33 13 19-0300 EA 52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 629.46<br>223.80<br>124.33 | 71.57                   |
| 23 33 13 19-0301 EA 52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 658.89<br>231.40<br>128.55 | 76.80                   |
| 23 33 13 19-0302 EA 52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 695.36<br>242.79<br>134.89 | 81.86                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|---|------------------------------|-------------------------|
| 23 33 13 19-0303 EA 52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 738.84<br>257.98<br>143.32   | 86.93                   |
| 23 33 13 19-0304 EA 52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 769.96<br>270.64<br>150.35   | 89.54                   |
| 23 33 13 19-0305 EA 52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 808.13<br>287.10<br>159.50   | 92.00                   |
| 23 33 13 19-0306 EA 52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 851.61<br>302.29<br>167.94   | 97.22                   |
| 23 33 13 19-0307 EA 52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 888.10<br>313.70<br>174.28   | 102.29                  |
| 23 33 13 19-0308 EA 52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 939.27<br>328.89<br>182.72   | 109.97                  |
| 23 33 13 19-0309 EA 52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 978.07<br>341.56<br>189.75   | 115.03                  |
| 23 33 13 19-0310 EA 56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 501.09<br>195.95<br>108.86   | 46.08                   |
| 23 33 13 19-0311 EA 56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 528.15<br>202.27<br>112.37   | 51.14                   |
| 23 33 13 19-0312 EA 56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 550.56<br>206.07<br>114.49   | 56.21                   |
| 23 33 13 19-0313 EA 56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 568.25<br>207.33<br>115.19   | 61.44                   |
| 23 33 13 19-0314 EA 56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 596.52<br>214.30<br>119.06   | 66.50                   |
| 23 33 13 19-0315 EA 56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 624.77<br>221.27<br>122.93   | 71.57                   |
| 23 33 13 19-0316 EA 56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 653.02<br>228.23<br>126.79   | 76.80                   |
| 23 33 13 19-0317 EA 56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 681.28<br>235.19<br>130.66   | 81.86                   |
| 23 33 13 19-0318 EA 56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 724.77<br>250.38<br>139.10   | 86.93                   |
| 23 33 13 19-0319 EA 56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 760.60<br>265.58<br>147.55   | 89.54                   |
| 23 33 13 19-0320 EA 56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 794.07<br>279.51<br>155.28   | 92.00                   |
| 23 33 13 19-0321 EA 56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 842.25<br>297.23<br>165.13   | 97.22                   |
| 23 33 13 19-0322 EA 56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 885.75<br>312.43<br>173.57   | 102.29                  |
| 23 33 13 19-0323 EA 56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 931.59<br>328.89<br>182.72   | 107.35                  |
| 23 33 13 19-0324 EA 56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 970.41<br>341.56<br>189.75   | 112.58                  |
| 23 33 13 19-0325 EA 56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,016.23<br>358.01<br>198.90 | 117.65                  |
| 23 33 13 19-0326 EA 56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,062.07<br>374.47<br>208.04 | 122.71                  |
| 23 33 13 19-0327 EA 60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 523.48<br>199.75<br>110.97   | 51.14                   |
| 23 33 13 19-0328 EA 60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i>  | 550.56<br>206.07<br>114.49   | 56.21                   |
| 23 33 13 19-0329 EA 60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 570.59<br>208.60<br>115.89   | 61.44                   |
| 23 33 13 19-0330 EA 60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 588.32<br>209.88<br>116.60   | 66.50                   |



|  |           |
|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b> |
| HVAC Air Distribution                                    | 23 30     |
| Air Duct Accessories                                     | 23 33     |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST       | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------------|----------------------|
| 23 33 13 19-0331 | EA  |     | 60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 617.74<br>217.47<br>120.82   | 71.57                |
| 23 33 13 19-0332 | EA  |     | 60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 647.15<br>225.06<br>125.03   | 76.80                |
| 23 33 13 19-0333 | EA  |     | 60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 677.76<br>233.29<br>129.61   | 81.86                |
| 23 33 13 19-0334 | EA  |     | 60" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 708.36<br>241.52<br>134.18   | 86.93                |
| 23 33 13 19-0335 | EA  |     | 60" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 746.52<br>257.98<br>143.32   | 89.54                |
| 23 33 13 19-0336 | EA  |     | 60" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 782.33<br>273.17<br>151.76   | 92.00                |
| 23 33 13 19-0337 | EA  |     | 60" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 828.19<br>289.64<br>160.91   | 97.22                |
| 23 33 13 19-0338 | EA  |     | 60" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 874.03<br>306.10<br>170.06   | 102.29               |
| 23 33 13 19-0339 | EA  |     | 60" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 912.83<br>318.76<br>177.09   | 107.35               |
| 23 33 13 19-0340 | EA  |     | 60" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 965.69<br>339.01<br>188.34   | 112.58               |
| 23 33 13 19-0341 | EA  |     | 60" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,013.86<br>356.73<br>198.19 | 117.65               |
| 23 33 13 19-0342 | EA  |     | 60" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,062.07<br>374.47<br>208.04 | 122.71               |
| 23 33 13 19-0343 | EA  |     | 60" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,105.53<br>389.65<br>216.47 | 127.94               |
| 23 33 13 19-0344 | EA  |     | 60" x 60" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated<br><i>For Dynamic Damper, Add</i><br><i>For 3 Hour Rated, Add</i> | 1,149.05<br>404.85<br>224.92 | 133.01               |

**23 33 13 23 Backdraft Dampers (23 33 13)**

**23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)**

Note: Galvanized steel frame, aluminum blades. Exclude motor pack.

|                  |    |  |  |        |       |
|------------------|----|--|--|--------|-------|
| 23 33 13 23-0002 | EA |  | 6" x 6" Horizontally Mounted Backdraft Damper.....   | 115.99 | 17.05 |
| 23 33 13 23-0003 | EA |  | 8" x 6" Horizontally Mounted Backdraft Damper.....   | 139.89 | 17.81 |
| 23 33 13 23-0004 | EA |  | 8" x 8" Horizontally Mounted Backdraft Damper.....   | 169.02 | 17.97 |
| 23 33 13 23-0005 | EA |  | 10" x 6" Horizontally Mounted Backdraft Damper.....  | 161.83 | 17.97 |
| 23 33 13 23-0006 | EA |  | 10" x 8" Horizontally Mounted Backdraft Damper.....  | 154.78 | 18.44 |
| 23 33 13 23-0007 | EA |  | 10" x 10" Horizontally Mounted Backdraft Damper..... | 185.79 | 20.43 |
| 23 33 13 23-0008 | EA |  | 12" x 6" Horizontally Mounted Backdraft Damper.....  | 144.84 | 18.44 |
| 23 33 13 23-0009 | EA |  | 12" x 8" Horizontally Mounted Backdraft Damper.....  | 180.82 | 20.43 |
| 23 33 13 23-0010 | EA |  | 12" x 10" Horizontally Mounted Backdraft Damper..... | 173.17 | 21.50 |
| 23 33 13 23-0011 | EA |  | 12" x 12" Horizontally Mounted Backdraft Damper..... | 199.54 | 23.04 |
| 23 33 13 23-0012 | EA |  | 14" x 6" Horizontally Mounted Backdraft Damper.....  | 162.82 | 19.50 |
| 23 33 13 23-0013 | EA |  | 14" x 8" Horizontally Mounted Backdraft Damper.....  | 165.92 | 21.50 |
| 23 33 13 23-0014 | EA |  | 14" x 10" Horizontally Mounted Backdraft Damper..... | 195.93 | 23.04 |
| 23 33 13 23-0015 | EA |  | 14" x 12" Horizontally Mounted Backdraft Damper..... | 174.34 | 25.65 |
| 23 33 13 23-0016 | EA |  | 14" x 14" Horizontally Mounted Backdraft Damper..... | 198.28 | 28.11 |
| 23 33 13 23-0017 | EA |  | 16" x 6" Horizontally Mounted Backdraft Damper.....  | 180.82 | 20.43 |
| 23 33 13 23-0018 | EA |  | 16" x 8" Horizontally Mounted Backdraft Damper.....  | 185.04 | 23.04 |
| 23 33 13 23-0019 | EA |  | 16" x 10" Horizontally Mounted Backdraft Damper..... | 169.70 | 25.65 |
| 23 33 13 23-0020 | EA |  | 16" x 12" Horizontally Mounted Backdraft Damper..... | 188.26 | 25.65 |
| 23 33 13 23-0021 | EA |  | 16" x 14" Horizontally Mounted Backdraft Damper..... | 214.54 | 28.11 |
| 23 33 13 23-0022 | EA |  | 16" x 16" Horizontally Mounted Backdraft Damper..... | 240.78 | 30.72 |
| 23 33 13 23-0023 | EA |  | 18" x 6" Horizontally Mounted Backdraft Damper.....  | 162.32 | 21.50 |
| 23 33 13 23-0024 | EA |  | 18" x 8" Horizontally Mounted Backdraft Damper.....  | 152.71 | 23.04 |
| 23 33 13 23-0025 | EA |  | 18" x 10" Horizontally Mounted Backdraft Damper..... | 181.29 | 25.65 |
| 23 33 13 23-0026 | EA |  | 18" x 12" Horizontally Mounted Backdraft Damper..... | 209.87 | 28.11 |
| 23 33 13 23-0027 | EA |  | 18" x 14" Horizontally Mounted Backdraft Damper..... | 238.44 | 30.72 |
| 23 33 13 23-0028 | EA |  | 18" x 16" Horizontally Mounted Backdraft Damper..... | 272.39 | 33.17 |
| 23 33 13 23-0029 | EA |  | 18" x 18" Horizontally Mounted Backdraft Damper..... | 309.31 | 38.40 |
| 23 33 13 23-0030 | EA |  | 18" x 20" Horizontally Mounted Backdraft Damper..... | 253.67 | 40.85 |
| 23 33 13 23-0031 | EA |  | 18" x 24" Horizontally Mounted Backdraft Damper..... | 295.18 | 46.08 |
| 23 33 13 23-0032 | EA |  | 20" x 6" Horizontally Mounted Backdraft Damper.....  | 177.79 | 23.04 |
| 23 33 13 23-0033 | EA |  | 20" x 8" Horizontally Mounted Backdraft Damper.....  | 169.70 | 25.65 |
| 23 33 13 23-0034 | EA |  | 20" x 10" Horizontally Mounted Backdraft Damper..... | 200.58 | 28.11 |
| 23 33 13 23-0035 | EA |  | 20" x 12" Horizontally Mounted Backdraft Damper..... | 231.50 | 30.72 |
| 23 33 13 23-0036 | EA |  | 20" x 14" Horizontally Mounted Backdraft Damper..... | 267.60 | 33.17 |
| 23 33 13 23-0037 | EA |  | 20" x 16" Horizontally Mounted Backdraft Damper..... | 299.24 | 35.78 |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 23-0038 EA 20" x 18" Horizontally Mounted Backdraft Damper ..... | 253.67                    | 40.85                   |
| 23 33 13 23-0039 EA 20" x 20" Horizontally Mounted Backdraft Damper ..... | 268.20                    | 40.85                   |
| 23 33 13 23-0040 EA 20" x 24" Horizontally Mounted Backdraft Damper ..... | 312.62                    | 46.08                   |
| 23 33 13 23-0041 EA 20" x 28" Horizontally Mounted Backdraft Damper ..... | 357.04                    | 51.14                   |
| 23 33 13 23-0042 EA 20" x 32" Horizontally Mounted Backdraft Damper ..... | 335.03                    | 56.21                   |
| 23 33 13 23-0043 EA 20" x 36" Horizontally Mounted Backdraft Damper ..... | 371.13                    | 61.44                   |
| 23 33 13 23-0044 EA 24" x 6" Horizontally Mounted Backdraft Damper .....  | 160.39                    | 25.65                   |
| 23 33 13 23-0045 EA 24" x 8" Horizontally Mounted Backdraft Damper .....  | 195.94                    | 28.11                   |
| 23 33 13 23-0046 EA 24" x 10" Horizontally Mounted Backdraft Damper ..... | 231.50                    | 30.72                   |
| 23 33 13 23-0047 EA 24" x 12" Horizontally Mounted Backdraft Damper ..... | 272.39                    | 33.17                   |
| 23 33 13 23-0048 EA 24" x 14" Horizontally Mounted Backdraft Damper ..... | 237.28                    | 38.40                   |
| 23 33 13 23-0049 EA 24" x 16" Horizontally Mounted Backdraft Damper ..... | 262.38                    | 40.85                   |
| 23 33 13 23-0050 EA 24" x 18" Horizontally Mounted Backdraft Damper ..... | 295.18                    | 46.08                   |
| 23 33 13 23-0051 EA 24" x 20" Horizontally Mounted Backdraft Damper ..... | 312.62                    | 46.08                   |
| 23 33 13 23-0052 EA 24" x 24" Horizontally Mounted Backdraft Damper ..... | 362.86                    | 51.14                   |
| 23 33 13 23-0053 EA 24" x 28" Horizontally Mounted Backdraft Damper ..... | 343.31                    | 56.21                   |
| 23 33 13 23-0054 EA 24" x 32" Horizontally Mounted Backdraft Damper ..... | 383.60                    | 61.44                   |
| 23 33 13 23-0055 EA 24" x 36" Horizontally Mounted Backdraft Damper ..... | 423.86                    | 66.50                   |
| 23 33 13 23-0056 EA 24" x 40" Horizontally Mounted Backdraft Damper ..... | 414.32                    | 71.57                   |
| 23 33 13 23-0057 EA 24" x 44" Horizontally Mounted Backdraft Damper ..... | 449.61                    | 76.80                   |
| 23 33 13 23-0058 EA 24" x 48" Horizontally Mounted Backdraft Damper ..... | 469.53                    | 76.80                   |
| 23 33 13 23-0059 EA 28" x 6" Horizontally Mounted Backdraft Damper .....  | 174.34                    | 25.65                   |
| 23 33 13 23-0060 EA 28" x 8" Horizontally Mounted Backdraft Damper .....  | 214.54                    | 28.11                   |
| 23 33 13 23-0061 EA 28" x 10" Horizontally Mounted Backdraft Damper ..... | 267.60                    | 33.17                   |
| 23 33 13 23-0062 EA 28" x 12" Horizontally Mounted Backdraft Damper ..... | 237.28                    | 38.40                   |
| 23 33 13 23-0063 EA 28" x 14" Horizontally Mounted Backdraft Damper ..... | 265.29                    | 40.85                   |
| 23 33 13 23-0064 EA 28" x 16" Horizontally Mounted Backdraft Damper ..... | 301.00                    | 46.08                   |
| 23 33 13 23-0065 EA 28" x 18" Horizontally Mounted Backdraft Damper ..... | 336.71                    | 51.14                   |
| 23 33 13 23-0066 EA 28" x 20" Horizontally Mounted Backdraft Damper ..... | 357.04                    | 51.14                   |
| 23 33 13 23-0067 EA 28" x 24" Horizontally Mounted Backdraft Damper ..... | 343.31                    | 56.21                   |
| 23 33 13 23-0068 EA 28" x 28" Horizontally Mounted Backdraft Damper ..... | 387.76                    | 61.44                   |
| 23 33 13 23-0069 EA 28" x 32" Horizontally Mounted Backdraft Damper ..... | 432.17                    | 66.50                   |
| 23 33 13 23-0070 EA 28" x 36" Horizontally Mounted Backdraft Damper ..... | 439.63                    | 76.80                   |
| 23 33 13 23-0071 EA 28" x 40" Horizontally Mounted Backdraft Damper ..... | 462.89                    | 76.80                   |
| 23 33 13 23-0072 EA 28" x 44" Horizontally Mounted Backdraft Damper ..... | 501.49                    | 81.86                   |
| 23 33 13 23-0073 EA 28" x 48" Horizontally Mounted Backdraft Damper ..... | 540.11                    | 86.93                   |
| 23 33 13 23-0074 EA 28" x 52" Horizontally Mounted Backdraft Damper ..... | 563.37                    | 86.93                   |
| 23 33 13 23-0075 EA 28" x 56" Horizontally Mounted Backdraft Damper ..... | 561.29                    | 92.00                   |
| 23 33 13 23-0076 EA 28" x 60" Horizontally Mounted Backdraft Damper ..... | 581.61                    | 92.00                   |
| 23 33 13 23-0077 EA 32" x 6" Horizontally Mounted Backdraft Damper .....  | 195.94                    | 28.11                   |
| 23 33 13 23-0078 EA 32" x 8" Horizontally Mounted Backdraft Damper .....  | 253.22                    | 33.17                   |
| 23 33 13 23-0079 EA 32" x 10" Horizontally Mounted Backdraft Damper ..... | 299.24                    | 35.78                   |
| 23 33 13 23-0080 EA 32" x 12" Horizontally Mounted Backdraft Damper ..... | 262.38                    | 40.85                   |
| 23 33 13 23-0081 EA 32" x 14" Horizontally Mounted Backdraft Damper ..... | 301.00                    | 46.08                   |
| 23 33 13 23-0082 EA 32" x 16" Horizontally Mounted Backdraft Damper ..... | 339.60                    | 51.14                   |
| 23 33 13 23-0083 EA 32" x 18" Horizontally Mounted Backdraft Damper ..... | 303.05                    | 51.14                   |
| 23 33 13 23-0084 EA 32" x 20" Horizontally Mounted Backdraft Damper ..... | 335.03                    | 56.21                   |
| 23 33 13 23-0085 EA 32" x 24" Horizontally Mounted Backdraft Damper ..... | 383.60                    | 61.44                   |
| 23 33 13 23-0086 EA 32" x 28" Horizontally Mounted Backdraft Damper ..... | 432.17                    | 66.50                   |
| 23 33 13 23-0087 EA 32" x 32" Horizontally Mounted Backdraft Damper ..... | 442.97                    | 76.80                   |
| 23 33 13 23-0088 EA 32" x 36" Horizontally Mounted Backdraft Damper ..... | 469.53                    | 76.80                   |
| 23 33 13 23-0089 EA 32" x 40" Horizontally Mounted Backdraft Damper ..... | 511.46                    | 81.86                   |
| 23 33 13 23-0090 EA 32" x 44" Horizontally Mounted Backdraft Damper ..... | 553.39                    | 86.93                   |
| 23 33 13 23-0091 EA 32" x 48" Horizontally Mounted Backdraft Damper ..... | 555.47                    | 92.00                   |
| 23 33 13 23-0092 EA 32" x 52" Horizontally Mounted Backdraft Damper ..... | 578.73                    | 92.00                   |
| 23 33 13 23-0093 EA 32" x 56" Horizontally Mounted Backdraft Damper ..... | 617.32                    | 97.22                   |
| 23 33 13 23-0094 EA 32" x 60" Horizontally Mounted Backdraft Damper ..... | 640.59                    | 97.22                   |
| 23 33 13 23-0095 EA 32" x 64" Horizontally Mounted Backdraft Damper ..... | 626.04                    | 102.29                  |
| 23 33 13 23-0096 EA 32" x 68" Horizontally Mounted Backdraft Damper ..... | 645.97                    | 102.29                  |
| 23 33 13 23-0097 EA 32" x 72" Horizontally Mounted Backdraft Damper ..... | 681.26                    | 107.35                  |
| 23 33 13 23-0098 EA 36" x 6" Horizontally Mounted Backdraft Damper .....  | 209.87                    | 28.11                   |
| 23 33 13 23-0099 EA 36" x 8" Horizontally Mounted Backdraft Damper .....  | 280.07                    | 35.78                   |
| 23 33 13 23-0100 EA 36" x 10" Horizontally Mounted Backdraft Damper ..... | 253.67                    | 40.85                   |
| 23 33 13 23-0101 EA 36" x 12" Horizontally Mounted Backdraft Damper ..... | 295.18                    | 46.08                   |
| 23 33 13 23-0102 EA 36" x 14" Horizontally Mounted Backdraft Damper ..... | 336.71                    | 51.14                   |
| 23 33 13 23-0103 EA 36" x 16" Horizontally Mounted Backdraft Damper ..... | 303.05                    | 51.14                   |
| 23 33 13 23-0104 EA 36" x 18" Horizontally Mounted Backdraft Damper ..... | 337.09                    | 56.21                   |
| 23 33 13 23-0105 EA 36" x 20" Horizontally Mounted Backdraft Damper ..... | 371.13                    | 61.44                   |
| 23 33 13 23-0106 EA 36" x 24" Horizontally Mounted Backdraft Damper ..... | 423.86                    | 66.50                   |
| 23 33 13 23-0107 EA 36" x 28" Horizontally Mounted Backdraft Damper ..... | 439.63                    | 76.80                   |
| 23 33 13 23-0108 EA 36" x 32" Horizontally Mounted Backdraft Damper ..... | 469.53                    | 76.80                   |
| 23 33 13 23-0109 EA 36" x 36" Horizontally Mounted Backdraft Damper ..... | 514.77                    | 81.86                   |
| 23 33 13 23-0110 EA 36" x 40" Horizontally Mounted Backdraft Damper ..... | 560.04                    | 86.93                   |
| 23 33 13 23-0111 EA 36" x 44" Horizontally Mounted Backdraft Damper ..... | 564.17                    | 92.00                   |
| 23 33 13 23-0112 EA 36" x 48" Horizontally Mounted Backdraft Damper ..... | 605.71                    | 97.22                   |
| 23 33 13 23-0113 EA 36" x 52" Horizontally Mounted Backdraft Damper ..... | 631.85                    | 97.22                   |
| 23 33 13 23-0114 EA 36" x 56" Horizontally Mounted Backdraft Damper ..... | 621.07                    | 102.29                  |
| 23 33 13 23-0115 EA 36" x 60" Horizontally Mounted Backdraft Damper ..... | 643.48                    | 102.29                  |
| 23 33 13 23-0116 EA 36" x 64" Horizontally Mounted Backdraft Damper ..... | 681.26                    | 107.35                  |
| 23 33 13 23-0117 EA 36" x 68" Horizontally Mounted Backdraft Damper ..... | 703.67                    | 107.35                  |
| 23 33 13 23-0118 EA 36" x 72" Horizontally Mounted Backdraft Damper ..... | 726.12                    | 107.35                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 33 13 23-0119 EA 40" x 6" Horizontally Mounted Backdraft Damper.....  | 231.50                    | 30.72                   |
| 23 33 13 23-0120 EA 40" x 8" Horizontally Mounted Backdraft Damper.....  | 306.92                    | 38.40                   |
| 23 33 13 23-0121 EA 40" x 10" Horizontally Mounted Backdraft Damper..... | 268.20                    | 40.85                   |
| 23 33 13 23-0122 EA 40" x 12" Horizontally Mounted Backdraft Damper..... | 312.62                    | 46.08                   |
| 23 33 13 23-0123 EA 40" x 14" Horizontally Mounted Backdraft Damper..... | 357.04                    | 51.14                   |
| 23 33 13 23-0124 EA 40" x 16" Horizontally Mounted Backdraft Damper..... | 335.03                    | 56.21                   |
| 23 33 13 23-0125 EA 40" x 18" Horizontally Mounted Backdraft Damper..... | 371.13                    | 61.44                   |
| 23 33 13 23-0126 EA 40" x 20" Horizontally Mounted Backdraft Damper..... | 407.24                    | 66.50                   |
| 23 33 13 23-0127 EA 40" x 24" Horizontally Mounted Backdraft Damper..... | 414.32                    | 71.57                   |
| 23 33 13 23-0128 EA 40" x 28" Horizontally Mounted Backdraft Damper..... | 462.89                    | 76.80                   |
| 23 33 13 23-0129 EA 40" x 32" Horizontally Mounted Backdraft Damper..... | 511.46                    | 81.86                   |
| 23 33 13 23-0130 EA 40" x 36" Horizontally Mounted Backdraft Damper..... | 560.04                    | 86.93                   |
| 23 33 13 23-0131 EA 40" x 40" Horizontally Mounted Backdraft Damper..... | 567.08                    | 92.00                   |
| 23 33 13 23-0132 EA 40" x 44" Horizontally Mounted Backdraft Damper..... | 611.50                    | 97.22                   |
| 23 33 13 23-0133 EA 40" x 48" Horizontally Mounted Backdraft Damper..... | 640.59                    | 97.22                   |
| 23 33 13 23-0134 EA 40" x 50" Horizontally Mounted Backdraft Damper..... | 618.58                    | 102.29                  |
| 23 33 13 23-0135 EA 44" x 6" Horizontally Mounted Backdraft Damper.....  | 258.01                    | 33.17                   |
| 23 33 13 23-0136 EA 44" x 8" Horizontally Mounted Backdraft Damper.....  | 250.76                    | 40.85                   |
| 23 33 13 23-0137 EA 44" x 10" Horizontally Mounted Backdraft Damper..... | 298.09                    | 46.08                   |
| 23 33 13 23-0138 EA 44" x 12" Horizontally Mounted Backdraft Damper..... | 345.42                    | 51.14                   |
| 23 33 13 23-0139 EA 44" x 14" Horizontally Mounted Backdraft Damper..... | 328.78                    | 56.21                   |
| 23 33 13 23-0140 EA 44" x 16" Horizontally Mounted Backdraft Damper..... | 366.98                    | 61.44                   |
| 23 33 13 23-0141 EA 44" x 18" Horizontally Mounted Backdraft Damper..... | 389.82                    | 61.44                   |
| 23 33 13 23-0142 EA 44" x 20" Horizontally Mounted Backdraft Damper..... | 428.02                    | 66.50                   |
| 23 33 13 23-0143 EA 44" x 24" Horizontally Mounted Backdraft Damper..... | 449.61                    | 76.80                   |
| 23 33 13 23-0144 EA 44" x 28" Horizontally Mounted Backdraft Damper..... | 501.49                    | 81.86                   |
| 23 33 13 23-0145 EA 44" x 32" Horizontally Mounted Backdraft Damper..... | 553.39                    | 86.93                   |
| 23 33 13 23-0146 EA 44" x 36" Horizontally Mounted Backdraft Damper..... | 564.17                    | 92.00                   |
| 23 33 13 23-0147 EA 44" x 40" Horizontally Mounted Backdraft Damper..... | 611.50                    | 97.22                   |
| 23 33 13 23-0148 EA 44" x 44" Horizontally Mounted Backdraft Damper..... | 643.47                    | 97.22                   |
| 23 33 13 23-0149 EA 44" x 48" Horizontally Mounted Backdraft Damper..... | 636.02                    | 102.29                  |
| 23 33 13 23-0150 EA 44" x 50" Horizontally Mounted Backdraft Damper..... | 649.70                    | 102.29                  |
| 23 33 13 23-0151 EA 48" x 6" Horizontally Mounted Backdraft Damper.....  | 280.07                    | 35.78                   |
| 23 33 13 23-0152 EA 48" x 8" Horizontally Mounted Backdraft Damper.....  | 262.38                    | 40.85                   |
| 23 33 13 23-0153 EA 48" x 10" Horizontally Mounted Backdraft Damper..... | 312.62                    | 46.08                   |
| 23 33 13 23-0154 EA 48" x 12" Horizontally Mounted Backdraft Damper..... | 303.05                    | 51.14                   |
| 23 33 13 23-0155 EA 48" x 14" Horizontally Mounted Backdraft Damper..... | 343.31                    | 56.21                   |
| 23 33 13 23-0156 EA 48" x 16" Horizontally Mounted Backdraft Damper..... | 383.60                    | 61.44                   |
| 23 33 13 23-0157 EA 48" x 18" Horizontally Mounted Backdraft Damper..... | 423.86                    | 66.50                   |
| 23 33 13 23-0158 EA 48" x 20" Horizontally Mounted Backdraft Damper..... | 414.32                    | 71.57                   |
| 23 33 13 23-0159 EA 48" x 24" Horizontally Mounted Backdraft Damper..... | 469.53                    | 76.80                   |
| 23 33 13 23-0160 EA 48" x 28" Horizontally Mounted Backdraft Damper..... | 540.11                    | 86.93                   |
| 23 33 13 23-0161 EA 48" x 32" Horizontally Mounted Backdraft Damper..... | 555.47                    | 92.00                   |
| 23 33 13 23-0162 EA 48" x 36" Horizontally Mounted Backdraft Damper..... | 605.71                    | 97.22                   |
| 23 33 13 23-0163 EA 48" x 40" Horizontally Mounted Backdraft Damper..... | 640.59                    | 97.22                   |
| 23 33 13 23-0164 EA 48" x 44" Horizontally Mounted Backdraft Damper..... | 636.02                    | 102.29                  |
| 23 33 13 23-0165 EA 48" x 48" Horizontally Mounted Backdraft Damper..... | 681.26                    | 107.35                  |
| 23 33 13 23-0166 EA 48" x 50" Horizontally Mounted Backdraft Damper..... | 696.21                    | 107.35                  |
| 23 33 13 23-0167 EA 50" x 6" Horizontally Mounted Backdraft Damper.....  | 287.26                    | 35.78                   |
| 23 33 13 23-0168 EA 50" x 8" Horizontally Mounted Backdraft Damper.....  | 283.56                    | 46.08                   |
| 23 33 13 23-0169 EA 50" x 10" Horizontally Mounted Backdraft Damper..... | 335.26                    | 51.14                   |
| 23 33 13 23-0170 EA 50" x 12" Horizontally Mounted Backdraft Damper..... | 324.63                    | 56.21                   |
| 23 33 13 23-0171 EA 50" x 14" Horizontally Mounted Backdraft Damper..... | 365.95                    | 61.44                   |
| 23 33 13 23-0172 EA 50" x 16" Horizontally Mounted Backdraft Damper..... | 407.24                    | 66.50                   |
| 23 33 13 23-0173 EA 50" x 18" Horizontally Mounted Backdraft Damper..... | 448.56                    | 71.57                   |
| 23 33 13 23-0174 EA 50" x 20" Horizontally Mounted Backdraft Damper..... | 437.96                    | 76.80                   |
| 23 33 13 23-0175 EA 50" x 24" Horizontally Mounted Backdraft Damper..... | 494.84                    | 81.86                   |
| 23 33 13 23-0176 EA 50" x 28" Horizontally Mounted Backdraft Damper..... | 551.72                    | 86.93                   |
| 23 33 13 23-0177 EA 50" x 32" Horizontally Mounted Backdraft Damper..... | 567.08                    | 92.00                   |
| 23 33 13 23-0178 EA 50" x 36" Horizontally Mounted Backdraft Damper..... | 618.78                    | 97.22                   |
| 23 33 13 23-0179 EA 50" x 40" Horizontally Mounted Backdraft Damper..... | 618.58                    | 102.29                  |
| 23 33 13 23-0180 EA 50" x 44" Horizontally Mounted Backdraft Damper..... | 649.70                    | 102.29                  |
| 23 33 13 23-0181 EA 50" x 48" Horizontally Mounted Backdraft Damper..... | 696.21                    | 107.35                  |
| 23 33 13 23-0182 EA 50" x 50" Horizontally Mounted Backdraft Damper..... | 711.77                    | 107.35                  |

**23 33 13 23-0183 Vertically Mounted Backdraft Damper** (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Excludes motor pack.

|  |        |       |
|--|--------|-------|
| 23 33 13 23-0184 EA 6" x 6" Vertically Mounted Backdraft Damper.....   | 125.81 | 17.05 |
| 23 33 13 23-0185 EA 8" x 6" Vertically Mounted Backdraft Damper.....   | 153.02 | 17.81 |
| 23 33 13 23-0186 EA 10" x 6" Vertically Mounted Backdraft Damper.....  | 157.49 | 17.97 |
| 23 33 13 23-0187 EA 8" x 8" Vertically Mounted Backdraft Damper.....   | 164.40 | 17.97 |
| 23 33 13 23-0188 EA 12" x 6" Vertically Mounted Backdraft Damper.....  | 179.78 | 18.44 |
| 23 33 13 23-0189 EA 10" x 8" Vertically Mounted Backdraft Damper.....  | 199.75 | 20.43 |
| 23 33 13 23-0190 EA 14" x 6" Vertically Mounted Backdraft Damper.....  | 200.52 | 18.44 |
| 23 33 13 23-0191 EA 12" x 8" Vertically Mounted Backdraft Damper.....  | 227.41 | 20.43 |
| 23 33 13 23-0192 EA 16" x 6" Vertically Mounted Backdraft Damper.....  | 230.47 | 21.50 |
| 23 33 13 23-0193 EA 10" x 10" Vertically Mounted Backdraft Damper..... | 242.00 | 23.04 |
| 23 33 13 23-0194 EA 18" x 6" Vertically Mounted Backdraft Damper.....  | 194.85 | 19.50 |
| 23 33 13 23-0195 EA 14" x 8" Vertically Mounted Backdraft Damper.....  | 206.05 | 21.50 |
| 23 33 13 23-0196 EA 12" x 10" Vertically Mounted Backdraft Damper..... | 220.77 | 23.04 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 23-0197 EA 20" x 6" Vertically Mounted Backdraft Damper .....  | 228.45                    | 25.65                   |
| 23 33 13 23-0198 EA 16" x 8" Vertically Mounted Backdraft Damper .....  | 246.23                    | 28.11                   |
| 23 33 13 23-0199 EA 14" x 10" Vertically Mounted Backdraft Damper ..... | 238.36                    | 20.43                   |
| 23 33 13 23-0200 EA 12" x 12" Vertically Mounted Backdraft Damper ..... | 251.10                    | 23.04                   |
| 23 33 13 23-0201 EA 18" x 8" Vertically Mounted Backdraft Damper .....  | 221.66                    | 25.65                   |
| 23 33 13 23-0202 EA 24" x 6" Vertically Mounted Backdraft Damper .....  | 221.66                    | 25.65                   |
| 23 33 13 23-0203 EA 16" x 10" Vertically Mounted Backdraft Damper ..... | 245.41                    | 28.11                   |
| 23 33 13 23-0204 EA 20" x 8" Vertically Mounted Backdraft Damper .....  | 253.09                    | 30.72                   |
| 23 33 13 23-0205 EA 14" x 12" Vertically Mounted Backdraft Damper ..... | 233.47                    | 21.50                   |
| 23 33 13 23-0206 EA 28" x 6" Vertically Mounted Backdraft Damper .....  | 238.09                    | 23.04                   |
| 23 33 13 23-0207 EA 18" x 10" Vertically Mounted Backdraft Damper ..... | 257.84                    | 25.65                   |
| 23 33 13 23-0208 EA 16" x 12" Vertically Mounted Backdraft Damper ..... | 277.59                    | 28.11                   |
| 23 33 13 23-0209 EA 24" x 8" Vertically Mounted Backdraft Damper .....  | 285.27                    | 30.72                   |
| 23 33 13 23-0210 EA 32" x 6" Vertically Mounted Backdraft Damper .....  | 292.95                    | 33.17                   |
| 23 33 13 23-0211 EA 14" x 14" Vertically Mounted Backdraft Damper ..... | 312.35                    | 38.40                   |
| 23 33 13 23-0212 EA 20" x 10" Vertically Mounted Backdraft Damper ..... | 310.06                    | 40.85                   |
| 23 33 13 23-0213 EA 18" x 12" Vertically Mounted Backdraft Damper ..... | 340.40                    | 46.08                   |
| 23 33 13 23-0214 EA 36" x 6" Vertically Mounted Backdraft Damper .....  | 271.30                    | 23.04                   |
| 23 33 13 23-0215 EA 16" x 14" Vertically Mounted Backdraft Damper ..... | 286.47                    | 25.65                   |
| 23 33 13 23-0216 EA 28" x 8" Vertically Mounted Backdraft Damper .....  | 294.15                    | 28.11                   |
| 23 33 13 23-0217 EA 20" x 12" Vertically Mounted Backdraft Damper ..... | 316.79                    | 30.72                   |
| 23 33 13 23-0218 EA 24" x 10" Vertically Mounted Backdraft Damper ..... | 324.47                    | 33.17                   |
| 23 33 13 23-0219 EA 40" x 6" Vertically Mounted Backdraft Damper .....  | 332.15                    | 35.78                   |
| 23 33 13 23-0220 EA 18" x 14" Vertically Mounted Backdraft Damper ..... | 358.74                    | 40.85                   |
| 23 33 13 23-0221 EA 16" x 16" Vertically Mounted Backdraft Damper ..... | 362.47                    | 40.85                   |
| 23 33 13 23-0222 EA 32" x 8" Vertically Mounted Backdraft Damper .....  | 377.83                    | 46.08                   |
| 23 33 13 23-0223 EA 44" x 6" Vertically Mounted Backdraft Damper .....  | 400.68                    | 51.14                   |
| 23 33 13 23-0224 EA 20" x 14" Vertically Mounted Backdraft Damper ..... | 431.02                    | 56.21                   |
| 23 33 13 23-0225 EA 28" x 10" Vertically Mounted Backdraft Damper ..... | 446.38                    | 61.44                   |
| 23 33 13 23-0226 EA 18" x 16" Vertically Mounted Backdraft Damper ..... | 346.38                    | 25.65                   |
| 23 33 13 23-0227 EA 24" x 12" Vertically Mounted Backdraft Damper ..... | 354.06                    | 28.11                   |
| 23 33 13 23-0228 EA 36" x 8" Vertically Mounted Backdraft Damper .....  | 361.74                    | 30.72                   |
| 23 33 13 23-0229 EA 48" x 6" Vertically Mounted Backdraft Damper .....  | 369.42                    | 33.17                   |
| 23 33 13 23-0230 EA 50" x 6" Vertically Mounted Backdraft Damper .....  | 396.00                    | 38.40                   |
| 23 33 13 23-0231 EA 20" x 16" Vertically Mounted Backdraft Damper ..... | 422.37                    | 40.85                   |
| 23 33 13 23-0232 EA 32" x 10" Vertically Mounted Backdraft Damper ..... | 437.73                    | 46.08                   |
| 23 33 13 23-0233 EA 40" x 8" Vertically Mounted Backdraft Damper .....  | 437.73                    | 46.08                   |
| 23 33 13 23-0234 EA 18" x 18" Vertically Mounted Backdraft Damper ..... | 393.19                    | 51.14                   |
| 23 33 13 23-0235 EA 24" x 14" Vertically Mounted Backdraft Damper ..... | 375.28                    | 56.21                   |
| 23 33 13 23-0236 EA 28" x 12" Vertically Mounted Backdraft Damper ..... | 390.64                    | 61.44                   |
| 23 33 13 23-0237 EA 44" x 8" Vertically Mounted Backdraft Damper .....  | 415.82                    | 66.50                   |
| 23 33 13 23-0238 EA 18" x 20" Vertically Mounted Backdraft Damper ..... | 436.10                    | 71.57                   |
| 23 33 13 23-0239 EA 20" x 18" Vertically Mounted Backdraft Damper ..... | 451.46                    | 76.80                   |
| 23 33 13 23-0240 EA 36" x 10" Vertically Mounted Backdraft Damper ..... | 451.46                    | 76.80                   |
| 23 33 13 23-0241 EA 24" x 16" Vertically Mounted Backdraft Damper ..... | 312.62                    | 25.65                   |
| 23 33 13 23-0242 EA 32" x 12" Vertically Mounted Backdraft Damper ..... | 320.30                    | 28.11                   |
| 23 33 13 23-0243 EA 48" x 8" Vertically Mounted Backdraft Damper .....  | 335.66                    | 33.17                   |
| 23 33 13 23-0244 EA 28" x 14" Vertically Mounted Backdraft Damper ..... | 355.93                    | 38.40                   |
| 23 33 13 23-0245 EA 20" x 20" Vertically Mounted Backdraft Damper ..... | 368.51                    | 40.85                   |
| 23 33 13 23-0246 EA 40" x 10" Vertically Mounted Backdraft Damper ..... | 383.87                    | 46.08                   |
| 23 33 13 23-0247 EA 50" x 8" Vertically Mounted Backdraft Damper .....  | 399.23                    | 51.14                   |
| 23 33 13 23-0248 EA 18" x 24" Vertically Mounted Backdraft Damper ..... | 418.88                    | 51.14                   |
| 23 33 13 23-0249 EA 24" x 18" Vertically Mounted Backdraft Damper ..... | 434.24                    | 56.21                   |
| 23 33 13 23-0250 EA 36" x 12" Vertically Mounted Backdraft Damper ..... | 449.60                    | 61.44                   |
| 23 33 13 23-0251 EA 44" x 10" Vertically Mounted Backdraft Damper ..... | 469.87                    | 66.50                   |
| 23 33 13 23-0252 EA 28" x 16" Vertically Mounted Backdraft Damper ..... | 505.51                    | 76.80                   |
| 23 33 13 23-0253 EA 32" x 14" Vertically Mounted Backdraft Damper ..... | 505.51                    | 76.80                   |
| 23 33 13 23-0254 EA 20" x 24" Vertically Mounted Backdraft Damper ..... | 542.98                    | 81.86                   |
| 23 33 13 23-0255 EA 24" x 20" Vertically Mounted Backdraft Damper ..... | 513.08                    | 86.93                   |
| 23 33 13 23-0256 EA 40" x 12" Vertically Mounted Backdraft Damper ..... | 513.08                    | 86.93                   |
| 23 33 13 23-0257 EA 48" x 10" Vertically Mounted Backdraft Damper ..... | 528.44                    | 92.00                   |
| 23 33 13 23-0258 EA 50" x 10" Vertically Mounted Backdraft Damper ..... | 538.94                    | 92.00                   |
| 23 33 13 23-0259 EA 28" x 18" Vertically Mounted Backdraft Damper ..... | 349.05                    | 28.11                   |
| 23 33 13 23-0260 EA 36" x 14" Vertically Mounted Backdraft Damper ..... | 364.41                    | 33.17                   |
| 23 33 13 23-0261 EA 32" x 16" Vertically Mounted Backdraft Damper ..... | 376.31                    | 35.78                   |
| 23 33 13 23-0262 EA 44" x 12" Vertically Mounted Backdraft Damper ..... | 400.02                    | 40.85                   |
| 23 33 13 23-0263 EA 20" x 28" Vertically Mounted Backdraft Damper ..... | 432.18                    | 46.08                   |
| 23 33 13 23-0264 EA 28" x 20" Vertically Mounted Backdraft Damper ..... | 447.54                    | 51.14                   |
| 23 33 13 23-0265 EA 40" x 14" Vertically Mounted Backdraft Damper ..... | 447.54                    | 51.14                   |
| 23 33 13 23-0266 EA 24" x 24" Vertically Mounted Backdraft Damper ..... | 471.30                    | 56.21                   |
| 23 33 13 23-0267 EA 32" x 18" Vertically Mounted Backdraft Damper ..... | 486.66                    | 61.44                   |
| 23 33 13 23-0268 EA 36" x 16" Vertically Mounted Backdraft Damper ..... | 502.02                    | 66.50                   |
| 23 33 13 23-0269 EA 48" x 12" Vertically Mounted Backdraft Damper ..... | 532.74                    | 76.80                   |
| 23 33 13 23-0270 EA 50" x 12" Vertically Mounted Backdraft Damper ..... | 545.36                    | 76.80                   |
| 23 33 13 23-0271 EA 44" x 14" Vertically Mounted Backdraft Damper ..... | 569.12                    | 81.86                   |
| 23 33 13 23-0272 EA 20" x 32" Vertically Mounted Backdraft Damper ..... | 597.07                    | 86.93                   |
| 23 33 13 23-0273 EA 32" x 20" Vertically Mounted Backdraft Damper ..... | 612.43                    | 92.00                   |
| 23 33 13 23-0274 EA 40" x 16" Vertically Mounted Backdraft Damper ..... | 612.43                    | 92.00                   |
| 23 33 13 23-0275 EA 36" x 18" Vertically Mounted Backdraft Damper ..... | 631.97                    | 97.22                   |
| 23 33 13 23-0276 EA 24" x 28" Vertically Mounted Backdraft Damper ..... | 646.68                    | 97.22                   |
| 23 33 13 23-0277 EA 28" x 24" Vertically Mounted Backdraft Damper ..... | 631.62                    | 102.29                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 23-0278 EA 48" x 14" Vertically Mounted Backdraft Damper ..... | 631.62                    | 102.29                  |
| 23 33 13 23-0279 EA 50" x 14" Vertically Mounted Backdraft Damper ..... | 660.51                    | 107.35                  |
| 23 33 13 23-0280 EA 44" x 16" Vertically Mounted Backdraft Damper ..... | 424.36                    | 28.11                   |
| 23 33 13 23-0281 EA 20" x 36" Vertically Mounted Backdraft Damper ..... | 455.14                    | 35.78                   |
| 23 33 13 23-0282 EA 36" x 20" Vertically Mounted Backdraft Damper ..... | 470.48                    | 40.85                   |
| 23 33 13 23-0283 EA 40" x 18" Vertically Mounted Backdraft Damper ..... | 485.84                    | 46.08                   |
| 23 33 13 23-0284 EA 24" x 32" Vertically Mounted Backdraft Damper ..... | 524.37                    | 51.14                   |
| 23 33 13 23-0285 EA 32" x 24" Vertically Mounted Backdraft Damper ..... | 524.37                    | 51.14                   |
| 23 33 13 23-0286 EA 48" x 16" Vertically Mounted Backdraft Damper ..... | 539.73                    | 56.21                   |
| 23 33 13 23-0287 EA 28" x 28" Vertically Mounted Backdraft Damper ..... | 562.82                    | 61.44                   |
| 23 33 13 23-0288 EA 44" x 18" Vertically Mounted Backdraft Damper ..... | 582.03                    | 66.50                   |
| 23 33 13 23-0289 EA 40" x 20" Vertically Mounted Backdraft Damper ..... | 616.61                    | 76.80                   |
| 23 33 13 23-0290 EA 50" x 16" Vertically Mounted Backdraft Damper ..... | 616.61                    | 76.80                   |
| 23 33 13 23-0291 EA 24" x 36" Vertically Mounted Backdraft Damper ..... | 662.87                    | 81.86                   |
| 23 33 13 23-0292 EA 36" x 24" Vertically Mounted Backdraft Damper ..... | 678.23                    | 86.93                   |
| 23 33 13 23-0293 EA 48" x 18" Vertically Mounted Backdraft Damper ..... | 693.59                    | 92.00                   |
| 23 33 13 23-0294 EA 44" x 20" Vertically Mounted Backdraft Damper ..... | 716.69                    | 97.22                   |
| 23 33 13 23-0295 EA 28" x 32" Vertically Mounted Backdraft Damper ..... | 724.42                    | 97.22                   |
| 23 33 13 23-0296 EA 32" x 28" Vertically Mounted Backdraft Damper ..... | 739.78                    | 102.29                  |
| 23 33 13 23-0297 EA 50" x 18" Vertically Mounted Backdraft Damper ..... | 741.69                    | 102.29                  |
| 23 33 13 23-0298 EA 24" x 40" Vertically Mounted Backdraft Damper ..... | 786.02                    | 107.35                  |
| 23 33 13 23-0299 EA 40" x 24" Vertically Mounted Backdraft Damper ..... | 786.02                    | 107.35                  |
| 23 33 13 23-0300 EA 48" x 20" Vertically Mounted Backdraft Damper ..... | 786.02                    | 107.35                  |
| 23 33 13 23-0301 EA 50" x 20" Vertically Mounted Backdraft Damper ..... | 574.96                    | 30.72                   |
| 23 33 13 23-0302 EA 28" x 36" Vertically Mounted Backdraft Damper ..... | 601.85                    | 38.40                   |
| 23 33 13 23-0303 EA 36" x 28" Vertically Mounted Backdraft Damper ..... | 609.51                    | 40.85                   |
| 23 33 13 23-0304 EA 32" x 32" Vertically Mounted Backdraft Damper ..... | 632.60                    | 46.08                   |
| 23 33 13 23-0305 EA 24" x 44" Vertically Mounted Backdraft Damper ..... | 608.29                    | 51.14                   |
| 23 33 13 23-0306 EA 44" x 24" Vertically Mounted Backdraft Damper ..... | 623.65                    | 56.21                   |
| 23 33 13 23-0307 EA 28" x 40" Vertically Mounted Backdraft Damper ..... | 666.55                    | 61.44                   |
| 23 33 13 23-0308 EA 40" x 28" Vertically Mounted Backdraft Damper ..... | 681.91                    | 66.50                   |
| 23 33 13 23-0309 EA 24" x 48" Vertically Mounted Backdraft Damper ..... | 711.07                    | 71.57                   |
| 23 33 13 23-0310 EA 32" x 36" Vertically Mounted Backdraft Damper ..... | 726.43                    | 76.80                   |
| 23 33 13 23-0311 EA 36" x 32" Vertically Mounted Backdraft Damper ..... | 741.79                    | 81.86                   |
| 23 33 13 23-0312 EA 48" x 24" Vertically Mounted Backdraft Damper ..... | 757.15                    | 86.93                   |
| 23 33 13 23-0313 EA 50" x 24" Vertically Mounted Backdraft Damper ..... | 793.17                    | 92.00                   |
| 23 33 13 23-0314 EA 28" x 44" Vertically Mounted Backdraft Damper ..... | 822.30                    | 97.22                   |
| 23 33 13 23-0315 EA 44" x 28" Vertically Mounted Backdraft Damper ..... | 822.30                    | 97.22                   |
| 23 33 13 23-0316 EA 32" x 40" Vertically Mounted Backdraft Damper ..... | 858.34                    | 102.29                  |
| 23 33 13 23-0317 EA 40" x 32" Vertically Mounted Backdraft Damper ..... | 651.00                    | 33.17                   |
| 23 33 13 23-0318 EA 36" x 36" Vertically Mounted Backdraft Damper ..... | 680.91                    | 40.85                   |
| 23 33 13 23-0319 EA 28" x 48" Vertically Mounted Backdraft Damper ..... | 716.92                    | 46.08                   |
| 23 33 13 23-0320 EA 48" x 28" Vertically Mounted Backdraft Damper ..... | 732.28                    | 51.14                   |
| 23 33 13 23-0321 EA 50" x 28" Vertically Mounted Backdraft Damper ..... | 771.75                    | 56.21                   |
| 23 33 13 23-0322 EA 32" x 44" Vertically Mounted Backdraft Damper ..... | 790.57                    | 61.44                   |
| 23 33 13 23-0323 EA 44" x 32" Vertically Mounted Backdraft Damper ..... | 790.57                    | 61.44                   |
| 23 33 13 23-0324 EA 36" x 40" Vertically Mounted Backdraft Damper ..... | 821.43                    | 66.50                   |
| 23 33 13 23-0325 EA 40" x 36" Vertically Mounted Backdraft Damper ..... | 788.43                    | 76.80                   |
| 23 33 13 23-0326 EA 28" x 52" Vertically Mounted Backdraft Damper ..... | 809.97                    | 81.86                   |
| 23 33 13 23-0327 EA 32" x 48" Vertically Mounted Backdraft Damper ..... | 856.33                    | 86.93                   |
| 23 33 13 23-0328 EA 48" x 32" Vertically Mounted Backdraft Damper ..... | 871.69                    | 92.00                   |
| 23 33 13 23-0329 EA 28" x 56" Vertically Mounted Backdraft Damper ..... | 899.46                    | 97.22                   |
| 23 33 13 23-0330 EA 36" x 44" Vertically Mounted Backdraft Damper ..... | 905.67                    | 97.22                   |
| 23 33 13 23-0331 EA 44" x 36" Vertically Mounted Backdraft Damper ..... | 921.03                    | 102.29                  |
| 23 33 13 23-0332 EA 40" x 40" Vertically Mounted Backdraft Damper ..... | 927.22                    | 102.29                  |
| 23 33 13 23-0333 EA 50" x 32" Vertically Mounted Backdraft Damper ..... | 727.56                    | 35.78                   |
| 23 33 13 23-0334 EA 32" x 52" Vertically Mounted Backdraft Damper ..... | 767.71                    | 40.85                   |
| 23 33 13 23-0335 EA 28" x 60" Vertically Mounted Backdraft Damper ..... | 789.26                    | 46.08                   |
| 23 33 13 23-0336 EA 36" x 48" Vertically Mounted Backdraft Damper ..... | 823.24                    | 51.14                   |
| 23 33 13 23-0337 EA 48" x 36" Vertically Mounted Backdraft Damper ..... | 838.60                    | 56.21                   |
| 23 33 13 23-0338 EA 40" x 44" Vertically Mounted Backdraft Damper ..... | 866.37                    | 61.44                   |
| 23 33 13 23-0339 EA 44" x 40" Vertically Mounted Backdraft Damper ..... | 881.73                    | 66.50                   |
| 23 33 13 23-0340 EA 32" x 56" Vertically Mounted Backdraft Damper ..... | 909.46                    | 71.57                   |
| 23 33 13 23-0341 EA 50" x 36" Vertically Mounted Backdraft Damper ..... | 850.42                    | 76.80                   |
| 23 33 13 23-0342 EA 36" x 52" Vertically Mounted Backdraft Damper ..... | 905.95                    | 86.93                   |
| 23 33 13 23-0343 EA 32" x 60" Vertically Mounted Backdraft Damper ..... | 937.84                    | 92.00                   |
| 23 33 13 23-0344 EA 40" x 48" Vertically Mounted Backdraft Damper ..... | 953.20                    | 97.22                   |
| 23 33 13 23-0345 EA 48" x 40" Vertically Mounted Backdraft Damper ..... | 953.20                    | 97.22                   |
| 23 33 13 23-0346 EA 44" x 44" Vertically Mounted Backdraft Damper ..... | 974.08                    | 102.29                  |
| 23 33 13 23-0347 EA 40" x 50" Vertically Mounted Backdraft Damper ..... | 1,011.49                  | 107.35                  |
| 23 33 13 23-0348 EA 50" x 40" Vertically Mounted Backdraft Damper ..... | 1,011.49                  | 107.35                  |
| 23 33 13 23-0349 EA 36" x 56" Vertically Mounted Backdraft Damper ..... | 801.96                    | 35.78                   |
| 23 33 13 23-0350 EA 32" x 64" Vertically Mounted Backdraft Damper ..... | 843.70                    | 46.08                   |
| 23 33 13 23-0351 EA 44" x 48" Vertically Mounted Backdraft Damper ..... | 881.11                    | 51.14                   |
| 23 33 13 23-0352 EA 48" x 44" Vertically Mounted Backdraft Damper ..... | 896.47                    | 56.21                   |
| 23 33 13 23-0353 EA 36" x 60" Vertically Mounted Backdraft Damper ..... | 928.36                    | 61.44                   |
| 23 33 13 23-0354 EA 32" x 68" Vertically Mounted Backdraft Damper ..... | 949.24                    | 66.50                   |
| 23 33 13 23-0355 EA 44" x 50" Vertically Mounted Backdraft Damper ..... | 878.13                    | 71.57                   |
| 23 33 13 23-0356 EA 50" x 44" Vertically Mounted Backdraft Damper ..... | 893.49                    | 76.80                   |
| 23 33 13 23-0357 EA 32" x 72" Vertically Mounted Backdraft Damper ..... | 940.18                    | 81.86                   |
| 23 33 13 23-0358 EA 36" x 64" Vertically Mounted Backdraft Damper ..... | 955.54                    | 86.93                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 13 23-0359 EA 48" x 48" Vertically Mounted Backdraft Damper .....                   | 970.90                    | 92.00                   |
| 23 33 13 23-0360 EA 48" x 50" Vertically Mounted Backdraft Damper .....                   | 1,015.20                  | 97.22                   |
| 23 33 13 23-0361 EA 50" x 48" Vertically Mounted Backdraft Damper .....                   | 1,030.56                  | 102.29                  |
| 23 33 13 23-0362 EA 36" x 68" Vertically Mounted Backdraft Damper .....                   | 1,045.03                  | 102.29                  |
| 23 33 13 23-0363 EA 50" x 50" Vertically Mounted Backdraft Damper .....                   | 1,076.07                  | 107.35                  |
| 23 33 13 23-0364 EA 36" x 72" Vertically Mounted Backdraft Damper .....                   | 1,103.79                  | 107.35                  |
| <b>23 33 13 23-0365 Backdraft Damper Accessories (23 33 13 23)</b>                        |                           |                         |
| 23 33 13 23-0366 EA For Motor Pack For Horizontally Mounted Backdraft Damper.....         | 298.42                    | 38.51                   |
| 23 33 13 23-0367 EA For Motor Pack For Vertically Mounted Backdraft Damper.....           | 501.63                    | 38.51                   |
| <b>23 33 13 33 Splitter Damper Hardware (23 33 13)</b>                                    |                           |                         |
| 23 33 13 33-0001 EA Splitter Damper, Hardware .....                                       | 52.41                     | 10.74                   |
| <b>23 33 13 43 Blower Check Valve (23 33 13)</b>  |                           |                         |
| <b>23 33 13 43-0001 Blower Check Valves With Silicone Seals (23 33 13 43)</b>             |                           |                         |
| 23 33 13 43-0002 EA 2-1/2" Blower Check Valves, Silicone Seals .....                      | 282.11                    | 39.62                   |
| 23 33 13 43-0003 EA 3" Blower Check Valves, Silicone Seals .....                          | 315.35                    | 45.15                   |
| 23 33 13 43-0004 EA 4" Blower Check Valves, Silicone Seals .....                          | 405.81                    | 59.90                   |
| 23 33 13 43-0005 EA 5" Blower Check Valves, Silicone Seals .....                          | 555.32                    | 69.12                   |
| 23 33 13 43-0006 EA 6" Blower Check Valves, Silicone Seals .....                          | 624.39                    | 82.94                   |
| 23 33 13 43-0007 EA 8" Blower Check Valves, Silicone Seals .....                          | 923.34                    | 105.05                  |
| <b>23 33 13 43-0008 Blower Check Valves With Viton Seats (23 33 13 43)</b>                |                           |                         |
| 23 33 13 43-0009 EA 2-1/2" Blower Check Valves, Viton Seats .....                         | 384.14                    | 39.62                   |
| 23 33 13 43-0010 EA 3" Blower Check Valves, Viton Seats .....                             | 436.61                    | 45.15                   |
| 23 33 13 43-0011 EA 4" Blower Check Valves, Viton Seats .....                             | 490.24                    | 59.90                   |
| 23 33 13 43-0012 EA 5" Blower Check Valves, Viton Seats .....                             | 681.73                    | 69.12                   |
| 23 33 13 43-0013 EA 6" Blower Check Valves, Viton Seats .....                             | 763.92                    | 82.94                   |
| 23 33 13 43-0014 EA 8" Blower Check Valves, Viton Seats .....                             | 1,170.17                  | 105.05                  |
| <b>23 33 19 Duct Silencers (23 33)</b>  |                           |                         |
| <b>23 33 19 00-0001 36" Long Packaged Duct Sound Trap (23 33 19)</b>                      |                           |                         |
| 23 33 19 00-0002 EA 12" x 12" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 428.63                    | 62.89                   |
| 23 33 19 00-0003 EA 12" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 513.47                    | 72.10                   |
| 23 33 19 00-0004 EA 12" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 658.86                    | 82.84                   |
| 23 33 19 00-0005 EA 12" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 796.18                    | 93.58                   |
| 23 33 19 00-0006 EA 24" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 741.30                    | 93.58                   |
| 23 33 19 00-0007 EA 24" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 933.76                    | 98.18                   |
| 23 33 19 00-0008 EA 24" x 30" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,028.71                  | 104.31                  |
| 23 33 19 00-0009 EA 24" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,126.76                  | 110.45                  |
| 23 33 19 00-0010 EA 24" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,464.39                  | 125.79                  |
| 23 33 19 00-0011 EA 36" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 931.83                    | 104.31                  |
| 23 33 19 00-0012 EA 36" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,248.02                  | 125.79                  |
| 23 33 19 00-0013 EA 36" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,175.11                  | 168.74                  |
| 23 33 19 00-0014 EA 36" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,400.18                  | 177.94                  |
| 23 33 19 00-0015 EA 48" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,675.56                  | 191.75                  |
| 23 33 19 00-0016 EA 48" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 3,000.41                  | 208.63                  |
| <b>23 33 19 00-0017 60" Long Packaged Duct Sound Trap (23 33 19)</b>                      |                           |                         |
| 23 33 19 00-0018 EA 12" x 12" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 477.96                    | 138.06                  |
| 23 33 19 00-0019 EA 12" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 574.28                    | 159.53                  |
| 23 33 19 00-0020 EA 12" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 738.80                    | 184.09                  |
| 23 33 19 00-0021 EA 12" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 892.85                    | 207.09                  |
| 23 33 19 00-0022 EA 24" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 830.47                    | 207.09                  |
| 23 33 19 00-0023 EA 24" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,051.13                  | 219.37                  |
| 23 33 19 00-0024 EA 24" x 30" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,153.78                  | 230.10                  |
| 23 33 19 00-0025 EA 24" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,258.73                  | 242.37                  |
| 23 33 19 00-0026 EA 24" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,645.83                  | 276.12                  |
| 23 33 19 00-0027 EA 36" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,043.69                  | 230.10                  |
| 23 33 19 00-0028 EA 36" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,399.96                  | 276.12                  |
| 23 33 19 00-0029 EA 36" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,433.06                  | 363.56                  |
| 23 33 19 00-0030 EA 36" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,711.86                  | 394.24                  |
| 23 33 19 00-0031 EA 48" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 3,005.55                  | 418.78                  |
| 23 33 19 00-0032 EA 48" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 3,379.13                  | 460.20                  |
| <b>23 33 19 00-0033 84" Long Packaged Duct Sound Trap (23 33 19)</b>                      |                           |                         |
| 23 33 19 00-0034 EA 6" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....  | 409.92                    | 115.05                  |
| 23 33 19 00-0035 EA 6" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....  | 693.77                    | 171.81                  |
| 23 33 19 00-0036 EA 6" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....  | 971.77                    | 251.58                  |
| 23 33 19 00-0037 EA 12" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 547.68                    | 138.06                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 33 19 00-0038 EA 12" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 677.03                    | 159.53                  |
| 23 33 19 00-0039 EA 12" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 907.61                    | 184.09                  |
| 23 33 19 00-0040 EA 12" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,066.02                  | 197.89                  |
| 23 33 19 00-0041 EA 12" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,162.42                  | 213.22                  |
| 23 33 19 00-0042 EA 12" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,451.03                  | 230.10                  |
| 23 33 19 00-0043 EA 12" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,709.38                  | 251.58                  |
| 23 33 19 00-0044 EA 24" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,008.29                  | 213.22                  |
| 23 33 19 00-0045 EA 24" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,410.50                  | 222.43                  |
| 23 33 19 00-0046 EA 24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,535.43                  | 230.10                  |
| 23 33 19 00-0047 EA 24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 1,669.74                  | 242.37                  |
| 23 33 19 00-0048 EA 24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,080.62                  | 260.78                  |
| 23 33 19 00-0049 EA 24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator..... | 2,255.00                  | 276.12                  |

**23 33 23 Turning Vanes** (23 33)

**23 33 23 00-0001 Duct Turning Vane Components** (23 33 23)

|   |       |      |
|---|-------|------|
| 23 33 23 00-0002 LF Duct Turning Vane Rail.....                             | 14.93 | 3.83 |
| <i>For Stainless Steel, Add</i>   | 9.07  |      |
| 23 33 23 00-0003 LF Double Thick Factory Fabricated, Duct Turning Vane..... | 13.69 | 1.54 |
| <i>For Stainless Steel, Add</i>   | 13.66 |      |

**23 33 23 00-0004 Duct Turning Vane Sets** (23 33 23)

Note: Measured from inside corner to outside corner of ductwork.

|  |        |      |
|--|--------|------|
| 23 33 23 00-0005 LF 12" High Duct Turning Vanes, Sets..... | 55.46  | 5.75 |
| <i>For Stainless Steel, Add</i>                            | 62.75  |      |
| 23 33 23 00-0006 LF 14" High Duct Turning Vanes, Sets..... | 68.73  | 6.13 |
| <i>For Stainless Steel, Add</i>                            | 79.38  |      |
| 23 33 23 00-0007 LF 16" High Duct Turning Vanes, Sets..... | 93.61  | 6.44 |
| <i>For Stainless Steel, Add</i>                            | 111.14 |      |
| 23 33 23 00-0008 LF 18" High Duct Turning Vanes, Sets..... | 118.55 | 6.91 |
| <i>For Stainless Steel, Add</i>                            | 142.90 |      |
| 23 33 23 00-0009 LF 20" High Duct Turning Vanes, Sets..... | 131.32 | 7.36 |
| <i>For Stainless Steel, Add</i>                            | 158.76 |      |
| 23 33 23 00-0010 LF 22" High Duct Turning Vanes, Sets..... | 167.41 | 6.91 |
| <i>For Stainless Steel, Add</i>                            | 206.43 |      |
| 23 33 23 00-0011 LF 24" High Duct Turning Vanes, Sets..... | 205.65 | 8.13 |
| <i>For Stainless Steel, Add</i>                            | 254.05 |      |
| 23 33 23 00-0012 LF 26" High Duct Turning Vanes, Sets..... | 220.75 | 8.50 |
| <i>For Stainless Steel, Add</i>                            | 273.17 |      |
| 23 33 23 00-0013 LF 30" High Duct Turning Vanes, Sets..... | 246.40 | 8.84 |
| <i>For Stainless Steel, Add</i>                            | 305.96 |      |

**23 33 33 Duct-Mounting Access Doors** (23 33)

**23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication** (23 33 33)

|  |        |       |
|--|--------|-------|
| 23 33 33 00-0002 EA 6" x 6" Duct Access Doors Insulated Factory Fabrication.....   | 117.52 | 21.48 |
| <i>For Stainless Steel, Add</i>  | 62.46  |       |
| 23 33 33 00-0003 EA 10" x 10" Duct Access Doors Insulated Factory Fabrication..... | 124.08 | 21.48 |
| <i>For Stainless Steel, Add</i>  | 75.58  |       |
| 23 33 33 00-0004 EA 12" x 12" Duct Access Doors Insulated Factory Fabrication..... | 127.29 | 21.48 |
| <i>For Stainless Steel, Add</i>  | 82.00  |       |
| 23 33 33 00-0005 EA 12" x 18" Duct Access Doors Insulated Factory Fabrication..... | 164.01 | 26.08 |
| <i>For Stainless Steel, Add</i>  | 115.62 |       |
| 23 33 33 00-0006 EA 16" x 12" Duct Access Doors Insulated Factory Fabrication..... | 165.31 | 26.08 |
| <i>For Stainless Steel, Add</i>  | 118.22 |       |
| 23 33 33 00-0007 EA 18" x 18" Duct Access Doors Insulated Factory Fabrication..... | 206.09 | 35.28 |
| <i>For Stainless Steel, Add</i>  | 136.06 |       |
| 23 33 33 00-0008 EA 24" x 18" Duct Access Doors Insulated Factory Fabrication..... | 245.83 | 42.95 |
| <i>For Stainless Steel, Add</i>  | 146.52 |       |
| 23 33 33 00-0009 EA 24" x 24" Duct Access Doors Insulated Factory Fabrication..... | 320.05 | 58.30 |
| <i>For Stainless Steel, Add</i>  | 179.90 |       |

**23 33 43 Flexible Connectors** (23 33)

|  |       |      |
|--|-------|------|
| 23 33 43 00-0001 LF 6-1/2" Width, Galvanized Steel, Flexible Duct Connector..... | 19.05 | 4.60 |
| 23 33 43 00-0002 LF 5-3/4" Width, Vinyl/Steel, Flexible Duct Connector.....      | 19.48 | 4.14 |

**23 33 46 Flexible Ducts** (23 33)

**23 33 46 00-0001 Flexible Duct, R8.0 Insulated With Metallized Outer Jacket** (23 33 46)

Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.

|  |       |      |
|--|-------|------|
| 23 33 46 00-0002 LF 4" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket..... | 10.46 | 1.54 |
| <i>For R6.0 Insulated Flexible Duct, Deduct</i>  | -0.98 |      |
| <i>For R4.2 Insulated Flexible Duct, Deduct</i>  | -1.14 |      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 23 33 46 00-0003        | LF  |     | 5" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....  | 11.57                  | 3.07                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -1.03                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -1.20                  |                      |
| 23 33 46 00-0004        | LF  |     | 6" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....  | 13.03                  | 3.07                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -1.06                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -1.23                  |                      |
| 23 33 46 00-0005        | LF  |     | 7" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....  | 15.13                  | 3.07                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -1.18                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -1.38                  |                      |
| 23 33 46 00-0006        | LF  |     | 8" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....  | 17.77                  | 4.60                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -1.19                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -1.39                  |                      |
| 23 33 46 00-0007        | LF  |     | 10" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket ..... | 22.98                  | 4.60                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -1.60                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -1.87                  |                      |
| 23 33 46 00-0008        | LF  |     | 12" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket ..... | 30.89                  | 6.13                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -1.91                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -2.22                  |                      |
| 23 33 46 00-0009        | LF  |     | 14" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket ..... | 38.43                  | 6.13                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -2.33                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -2.71                  |                      |
| 23 33 46 00-0010        | LF  |     | 16" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket ..... | 50.23                  | 7.67                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -2.78                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -3.24                  |                      |
| 23 33 46 00-0011        | LF  |     | 18" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket ..... | 61.15                  | 9.97                 |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -3.62                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -4.22                  |                      |
| 23 33 46 00-0012        | LF  |     | 20" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket ..... | 71.88                  | 10.74                |
|                         |     |     | <i>For R6.0 Insulated Flexible Duct, Deduct</i> .....  | -5.46                  |                      |
|                         |     |     | <i>For R4.2 Insulated Flexible Duct, Deduct</i> .....  | -6.37                  |                      |
| <b>23 33 46 00-0013</b> |     |     | <b>Collars, Sheet Metal Spin-In Type With Damper (23 33 46)</b>  |                        |                      |
| 23 33 46 00-0014        | EA  |     | Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....   | 58.82                  | 9.20                 |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 31.59                  |                      |
| 23 33 46 00-0015        | EA  |     | 5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....   | 64.06                  | 10.74                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 32.01                  |                      |
| 23 33 46 00-0016        | EA  |     | 6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....   | 73.17                  | 10.74                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 35.30                  |                      |
| 23 33 46 00-0017        | EA  |     | 7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....   | 83.25                  | 13.80                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 36.43                  |                      |
| 23 33 46 00-0018        | EA  |     | 8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....   | 100.68                 | 16.87                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 41.15                  |                      |
| 23 33 46 00-0019        | EA  |     | 10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....  | 117.92                 | 19.94                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 50.73                  |                      |
| 23 33 46 00-0020        | EA  |     | 12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....  | 134.08                 | 23.01                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 54.65                  |                      |
| 23 33 46 00-0021        | EA  |     | 14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....  | 158.48                 | 26.08                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 68.43                  |                      |
| 23 33 46 00-0022        | EA  |     | 16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper .....  | 172.64                 | 29.15                |
|                         |     |     | <i>For Stainless Steel, Add</i> .....  | 74.87                  |                      |
| <b>23 33 53</b>         |     |     | <b>Duct Liners (23 33)</b>   |                        |                      |
| <b>23 33 53 00-0001</b> |     |     | <b>Fiberglass Duct Liner Board, Rigid, Acoustical Insulation (23 33 53)</b>  |                        |                      |
| 23 33 53 00-0002        | SF  |     | 1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board .....   | 16.46                  | 4.36                 |
| 23 33 53 00-0003        | SF  |     | 3/4" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board .....   | 17.98                  | 4.36                 |
| 23 33 53 00-0004        | SF  |     | 1" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board .....   | 19.98                  | 5.82                 |
| 23 33 53 00-0005        | SF  |     | 1-1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board .....   | 24.49                  | 5.82                 |
| 23 33 53 00-0006        | SF  |     | 2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board .....   | 29.55                  | 6.56                 |
| 23 33 53 00-0007        | SF  |     | 1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board .....  | 15.35                  | 4.60                 |
| 23 33 53 00-0008        | SF  |     | 3/4" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board .....  | 16.77                  | 4.60                 |
| 23 33 53 00-0009        | SF  |     | 1" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board .....  | 18.70                  | 6.13                 |
| 23 33 53 00-0010        | SF  |     | 1-1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board .....  | 22.78                  | 6.13                 |
| 23 33 53 00-0011        | SF  |     | 2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board .....  | 27.61                  | 6.91                 |
| <b>23 33 53 00-0012</b> |     |     | <b>Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation (23 33 53)</b>   |                        |                      |
| 23 33 53 00-0013        | SF  |     | 1/2", R2, 2 LB/CF, T200, Fiberglass Duct Liner Blanket .....   | 3.41                   | 3.68                 |
| 23 33 53 00-0014        | SF  |     | 1", R3.8, 1.5 LB/CF, T150, Fiberglass Duct Liner Blanket .....   | 4.11                   | 4.14                 |
| 23 33 53 00-0015        | SF  |     | 1", R4.1, 2 LB/CF, T200, Fiberglass Duct Liner Blanket .....   | 4.99                   | 4.14                 |
| 23 33 53 00-0016        | SF  |     | 1", R4.3, 3 LB/CF, T300, Fiberglass Duct Liner Blanket .....   | 6.50                   | 4.14                 |
| 23 33 53 00-0017        | SF  |     | 1-1/2", T150, 1.5 LB/CF, Fiberglass Duct Liner Blanket .....   | 5.38                   | 4.60                 |



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                 | DEMOLITION UNIT COST |
|--|-----|-----|--|--|----------------------|
| 23 33 53 00-0018   | SF  |     | 2", R7.7, 1.5 LB/CF, T150 Fiberglass Duct Liner Blanket.....   | 5.71                                   | 5.06                 |
| 23 33 53 00-0019   | SF  |     | 2", R8, 2 LB/CF, T200 Fiberglass Duct Liner Blanket.....   | 8.97                                   | 5.06                 |
| <b>23 33 56 Duct Air Extractors (23 33)</b>                                  |     |     |  |  |                      |
| 23 33 56 00-0001   | EA  |     | 12" x 4" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>   | 70.14<br>25.38                         | 25.31                |
| 23 33 56 00-0002   | EA  |     | 8" x 6" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>  | 74.75<br>25.38                         | 27.61                |
| 23 33 56 00-0003   | EA  |     | 12" x 6" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>   | 85.31<br>35.11                         | 29.15                |
| 23 33 56 00-0004   | EA  |     | 16" x 6" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>   | 95.62<br>44.54                         | 30.68                |
| 23 33 56 00-0005   | EA  |     | 24" x 6" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>   | 124.06<br>73.54                        | 33.75                |
| 23 33 56 00-0006   | EA  |     | 12" x 8" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>   | 91.64<br>39.36                         | 30.68                |
| 23 33 56 00-0007   | EA  |     | 20" x 8" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>   | 120.51<br>56.97                        | 38.35                |
| 23 33 56 00-0008   | EA  |     | 18" x 10" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>  | 130.46<br>55.94                        | 43.72                |
| 23 33 56 00-0009   | EA  |     | 24" x 10" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>  | 158.55<br>72.50                        | 51.38                |
| 23 33 56 00-0010   | EA  |     | 24" x 12" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>  | 182.48<br>77.69                        | 61.36                |
| 23 33 56 00-0011   | EA  |     | 30" x 12" Duct Air Extractor .....<br><i>For Stainless Steel, Add</i>  | 228.30<br>97.37                        | 76.70                |
| <b>23 33 59 Duct Pressure Relief Doors (23 33)</b>                           |     |     |  |  |                      |
| <b>23 33 59 00-0001 Duct Pressure Relief Doors (23 33 59)</b>                |     |     |  |  |                      |
| 23 33 59 00-0002   | EA  |     | 18" x 18" Duct Pressure Relief Door (Ruskin PRD18).....  | 1,274.17                               | 46.02                |
| 23 33 59 00-0003   | EA  |     | 24" x 10" Duct Pressure Relief Door (Ruskin PRD18).....  | 1,047.26                               | 38.35                |
| 23 33 59 00-0004   | EA  |     | 24" x 12" Duct Pressure Relief Door (Ruskin PRD18).....  | 1,040.80                               | 42.19                |
| <b>23 34 HVAC Fans (23 30)</b>   |     |     |  |  |                      |
| <b>23 34 13 Axial HVAC Fans (23 34)</b>                                      |     |     |  |  |                      |
| <b>23 34 13 00-0001 Tube-Axial Fans (23 34 13)</b>                           |     |     |  |  |                      |
| <b>23 34 13 00-0002 Direct Drive Tube-Axial Duct Fans (23 34 13 00-0001)</b> |     |     |  |  |                      |
| 23 34 13 00-0003   | EA  |     | 12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>    | 2,094.50<br>92.14<br>184.28<br>253.38  | 470.91               |
| 23 34 13 00-0004   | EA  |     | 12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>    | 2,176.77<br>98.72<br>197.44<br>271.48  | 472.33               |
| 23 34 13 00-0005   | EA  |     | 16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>    | 2,341.30<br>111.88<br>223.76<br>307.68 | 470.91               |
| 23 34 13 00-0006   | EA  |     | 20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>    | 2,505.83<br>125.04<br>250.09<br>343.87 | 472.33               |
| 23 34 13 00-0007   | EA  |     | 22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>    | 2,941.18<br>144.79<br>289.58<br>398.17 | 565.66               |
| 23 34 13 00-0008   | EA  |     | 24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>      | 3,368.62<br>171.11<br>342.23<br>470.56 | 615.15               |
| 23 34 13 00-0009   | EA  |     | 24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure .....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i> | 3,568.01<br>177.70<br>355.39<br>488.66 | 673.13               |
| 23 34 13 00-0010   | EA  |     | 30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>     | 4,046.68<br>210.60<br>421.20<br>579.16 | 707.07               |
| 23 34 13 00-0011   | EA  |     | 30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i> | 4,893.81<br>250.09<br>500.18<br>687.75 | 883.84               |
| 23 34 13 00-0012   | EA  |     | 36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure.....<br><i>For 1/4" Static Pressure, Add</i><br><i>For 3/8" Static Pressure, Add</i><br><i>For 1/2" Static Pressure, Add</i>     | 5,505.26<br>289.58<br>579.16<br>796.34 | 943.24               |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 34 13 00-0013 EA 36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure.....   | 6,453.47                  | 1,087.48                |
| For 1/4" Static Pressure, Add  | 342.23                    |                         |
| For 3/8" Static Pressure, Add  | 684.46                    |                         |
| For 1/2" Static Pressure, Add  | 941.13                    |                         |
| <b>23 34 13 00-0014 Belt Drive Tube-Axial Duct Fans (23 34 13 00-0001)</b>                                       |                           |                         |
| 23 34 13 00-0015 EA 15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure.....    | 1,989.84                  | 456.77                  |
| For 1/4" Static Pressure, Add  | 86.20                     |                         |
| For 3/8" Static Pressure, Add  | 172.40                    |                         |
| For 1/2" Static Pressure, Add  | 237.05                    |                         |
| 23 34 13 00-0016 EA 15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure.....    | 2,105.32                  | 472.33                  |
| For 1/4" Static Pressure, Add  | 93.00                     |                         |
| For 3/8" Static Pressure, Add  | 186.01                    |                         |
| For 1/2" Static Pressure, Add  | 255.76                    |                         |
| 23 34 13 00-0017 EA 18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure.....    | 2,175.63                  | 487.88                  |
| For 1/4" Static Pressure, Add  | 96.03                     |                         |
| For 3/8" Static Pressure, Add  | 192.06                    |                         |
| For 1/2" Static Pressure, Add  | 264.08                    |                         |
| 23 34 13 00-0018 EA 18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure.....    | 2,298.68                  | 504.85                  |
| For 1/4" Static Pressure, Add  | 103.09                    |                         |
| For 3/8" Static Pressure, Add  | 206.17                    |                         |
| For 1/2" Static Pressure, Add  | 283.49                    |                         |
| 23 34 13 00-0019 EA 18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure.....      | 2,575.53                  | 524.65                  |
| For 1/4" Static Pressure, Add  | 122.24                    |                         |
| For 3/8" Static Pressure, Add  | 244.48                    |                         |
| For 1/2" Static Pressure, Add  | 336.16                    |                         |
| 23 34 13 00-0020 EA 24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure.....    | 2,713.48                  | 544.45                  |
| For 1/4" Static Pressure, Add  | 130.05                    |                         |
| For 3/8" Static Pressure, Add  | 260.11                    |                         |
| For 1/2" Static Pressure, Add  | 357.65                    |                         |
| 23 34 13 00-0021 EA 24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure.....      | 3,021.65                  | 565.66                  |
| For 1/4" Static Pressure, Add  | 151.23                    |                         |
| For 3/8" Static Pressure, Add  | 302.45                    |                         |
| For 1/2" Static Pressure, Add  | 415.87                    |                         |
| 23 34 13 00-0022 EA 24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure.....      | 3,381.78                  | 565.66                  |
| For 1/4" Static Pressure, Add  | 180.18                    |                         |
| For 3/8" Static Pressure, Add  | 360.36                    |                         |
| For 1/2" Static Pressure, Add  | 495.50                    |                         |
| 23 34 13 00-0023 EA 30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure.....      | 3,905.52                  | 615.15                  |
| For 1/4" Static Pressure, Add  | 214.24                    |                         |
| For 3/8" Static Pressure, Add  | 428.47                    |                         |
| For 1/2" Static Pressure, Add  | 589.15                    |                         |
| 23 34 13 00-0024 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure.....     | 4,636.00                  | 745.25                  |
| For 1/4" Static Pressure, Add  | 252.04                    |                         |
| For 3/8" Static Pressure, Add  | 504.09                    |                         |
| For 1/2" Static Pressure, Add  | 693.12                    |                         |
| 23 34 13 00-0025 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure.....     | 5,245.50                  | 745.25                  |
| For 1/4" Static Pressure, Add  | 300.30                    |                         |
| For 3/8" Static Pressure, Add  | 600.60                    |                         |
| For 1/2" Static Pressure, Add  | 825.83                    |                         |
| 23 34 13 00-0026 EA 36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure.....    | 5,762.64                  | 786.27                  |
| For 1/4" Static Pressure, Add  | 335.31                    |                         |
| For 3/8" Static Pressure, Add  | 670.62                    |                         |
| For 1/2" Static Pressure, Add  | 922.10                    |                         |
| 23 34 13 00-0027 EA 36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....     | 6,284.76                  | 831.52                  |
| For 1/4" Static Pressure, Add  | 370.00                    |                         |
| For 3/8" Static Pressure, Add  | 739.99                    |                         |
| For 1/2" Static Pressure, Add  | 1,017.49                  |                         |
| 23 34 13 00-0028 EA 36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure..... | 7,209.82                  | 1,087.48                |
| For 1/4" Static Pressure, Add  | 403.27                    |                         |
| For 3/8" Static Pressure, Add  | 806.54                    |                         |
| For 1/2" Static Pressure, Add  | 1,108.99                  |                         |
| 23 34 13 00-0029 EA 36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure.....     | 8,174.99                  | 1,088.90                |
| For 1/4" Static Pressure, Add  | 480.48                    |                         |
| For 3/8" Static Pressure, Add  | 960.97                    |                         |
| For 1/2" Static Pressure, Add  | 1,321.33                  |                         |
| 23 34 13 00-0030 EA 42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure..... | 9,253.83                  | 1,285.18                |
| For 1/4" Static Pressure, Add  | 535.36                    |                         |
| For 3/8" Static Pressure, Add  | 1,070.72                  |                         |
| For 1/2" Static Pressure, Add  | 1,472.23                  |                         |

**23 34 16 Centrifugal HVAC Fans (23 34)****23 34 16 00-0001 Centrifugal Fans (23 34 16)**

Note: All belt fans to be supplied with belt guard.

**23 34 16 00-0002 Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001)**

Note: V-belt driven.

**23 34 16 00-0003 Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)**

Note: Under 30" diameter wheel.

**23 34 16 00-0004 12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)**

23 34 16 00-0005 EA 1/6 HP, 12-1/4" Wheel, 450 To 1,750 CFM At 1/8" Static Pressure, Centrifugal Fan ..... 1,315.00 310.69



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 23 34 16 00-0006        | EA    |     |     | 1/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....       | 1,838.81               | 322.43               |
| 23 34 16 00-0007        | EA    |     |     | 1/3 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....       | 1,895.15               | 256.95               |
| 23 34 16 00-0008        | EA    |     |     | 1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....       | 1,978.28               | 352.12               |
| 23 34 16 00-0009        | EA    |     |     | 3/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....       | 2,031.64               | 373.34               |
| 23 34 16 00-0010        | EA    |     |     | 1 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....         | 2,098.01               | 388.89               |
| 23 34 16 00-0011        | EA    |     |     | 1-1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....     | 2,168.60               | 414.35               |
| <b>23 34 16 00-0012</b> |       |     |     | <b>13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>    |                        |                      |
| 23 34 16 00-0013        | EA    |     |     | 1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....         | 2,108.03               | 339.39               |
| 23 34 16 00-0014        | EA    |     |     | 1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....         | 2,148.68               | 352.12               |
| 23 34 16 00-0015        | EA    |     |     | 1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....         | 2,223.20               | 373.34               |
| 23 34 16 00-0016        | EA    |     |     | 3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....         | 2,268.01               | 388.89               |
| 23 34 16 00-0017        | EA    |     |     | 1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....           | 2,349.81               | 414.35               |
| 23 34 16 00-0018        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....       | 2,428.62               | 434.14               |
| <b>23 34 16 00-0019</b> |       |     |     | <b>15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>      |                        |                      |
| 23 34 16 00-0020        | EA    |     |     | 1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....           | 2,127.43               | 352.12               |
| 23 34 16 00-0021        | EA    |     |     | 1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....           | 2,180.70               | 373.34               |
| 23 34 16 00-0022        | EA    |     |     | 1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....           | 2,246.76               | 388.89               |
| 23 34 16 00-0023        | EA    |     |     | 3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....           | 2,307.30               | 414.35               |
| 23 34 16 00-0024        | EA    |     |     | 1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....             | 2,379.04               | 434.14               |
| 23 34 16 00-0025        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....         | 2,481.48               | 466.67               |
| 23 34 16 00-0026        | EA    |     |     | 2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....             | 2,561.20               | 490.71               |
| <b>23 34 16 00-0027</b> |       |     |     | <b>16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>    |                        |                      |
| 23 34 16 00-0028        | EA    |     |     | 1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....         | 2,425.08               | 373.34               |
| 23 34 16 00-0029        | EA    |     |     | 1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....         | 2,513.21               | 388.89               |
| 23 34 16 00-0030        | EA    |     |     | 1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....         | 2,614.14               | 414.35               |
| 23 34 16 00-0031        | EA    |     |     | 3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....         | 2,669.37               | 434.14               |
| 23 34 16 00-0032        | EA    |     |     | 1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....           | 2,744.71               | 466.67               |
| 23 34 16 00-0033        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....       | 2,807.93               | 490.71               |
| 23 34 16 00-0034        | EA    |     |     | 2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....           | 3,113.76               | 533.13               |
| <b>23 34 16 00-0035</b> |       |     |     | <b>18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>  |                        |                      |
| 23 34 16 00-0036        | EA    |     |     | 1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....       | 2,507.08               | 388.89               |
| 23 34 16 00-0037        | EA    |     |     | 1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....       | 2,572.92               | 414.35               |
| 23 34 16 00-0038        | EA    |     |     | 1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....       | 2,655.30               | 434.14               |
| 23 34 16 00-0039        | EA    |     |     | 3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....       | 2,725.88               | 466.67               |
| 23 34 16 00-0040        | EA    |     |     | 1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....         | 2,816.21               | 490.71               |
| 23 34 16 00-0041        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....     | 2,954.39               | 533.13               |
| 23 34 16 00-0042        | EA    |     |     | 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....         | 3,045.87               | 565.66               |
| 23 34 16 00-0043        | EA    |     |     | 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....         | 3,185.31               | 622.22               |
| <b>23 34 16 00-0044</b> |       |     |     | <b>20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>      |                        |                      |
| 23 34 16 00-0045        | EA    |     |     | 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....           | 2,541.06               | 414.35               |
| 23 34 16 00-0046        | EA    |     |     | 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....           | 2,623.40               | 434.14               |
| 23 34 16 00-0047        | EA    |     |     | 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....           | 2,725.88               | 466.67               |
| 23 34 16 00-0048        | EA    |     |     | 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....           | 2,816.21               | 490.71               |
| 23 34 16 00-0049        | EA    |     |     | 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....             | 2,986.26               | 533.13               |
| 23 34 16 00-0050        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....         | 3,214.34               | 565.66               |
| 23 34 16 00-0051        | EA    |     |     | 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....             | 3,386.59               | 622.22               |
| 23 34 16 00-0052        | EA    |     |     | 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....             | 3,560.19               | 666.06               |
| <b>23 34 16 00-0053</b> |       |     |     | <b>22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>  |                        |                      |
| 23 34 16 00-0054        | EA    |     |     | 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....       | 3,030.72               | 434.14               |
| 23 34 16 00-0055        | EA    |     |     | 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....       | 3,096.31               | 466.67               |
| 23 34 16 00-0056        | EA    |     |     | 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....       | 3,179.24               | 490.71               |
| 23 34 16 00-0057        | EA    |     |     | 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....       | 3,287.31               | 533.13               |
| 23 34 16 00-0058        | EA    |     |     | 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....         | 3,422.16               | 565.66               |
| 23 34 16 00-0059        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....     | 3,483.97               | 622.22               |
| 23 34 16 00-0060        | EA    |     |     | 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....         | 3,581.44               | 666.06               |
| 23 34 16 00-0061        | EA    |     |     | 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....         | 3,755.76               | 746.67               |
| <b>23 34 16 00-0062</b> |       |     |     | <b>24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b> |                        |                      |
| 23 34 16 00-0063        | EA    |     |     | 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....      | 3,625.48               | 466.67               |
| 23 34 16 00-0064        | EA    |     |     | 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....      | 3,761.91               | 533.13               |
| 23 34 16 00-0065        | EA    |     |     | 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....      | 3,885.26               | 565.66               |
| 23 34 16 00-0066        | EA    |     |     | 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....        | 4,024.10               | 622.22               |
| 23 34 16 00-0067        | EA    |     |     | 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....    | 4,144.57               | 666.06               |
| 23 34 16 00-0068        | EA    |     |     | 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....        | 4,265.78               | 746.67               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....                              | 4,417.28                  | 811.72                  |
| 23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....                              | 4,761.11                  | 933.33                  |
| <b>23 34 16 00-0071 27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure (23 34 16 00-0003)</b>                              |                           |                         |
| 23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                | 4,008.01                  | 490.71                  |
| 23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                | 4,150.91                  | 565.66                  |
| 23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                | 4,289.73                  | 622.22                  |
| 23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                  | 4,410.21                  | 666.06                  |
| 23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                              | 4,584.54                  | 746.67                  |
| 23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                  | 4,735.71                  | 811.72                  |
| 23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                  | 5,102.12                  | 933.33                  |
| 23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....                                  | 5,183.87                  | 1,036.57                |
| <b>23 34 16 00-0080 Large Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)</b>                                     |                           |                         |
| Note: Over 30" diameter wheel.   |                           |                         |
| <b>23 34 16 00-0081 30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure (23 34 16 00-0080)</b>                              |                           |                         |
| 23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                                | 5,591.34                  | 622.22                  |
| 23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                                | 5,707.63                  | 666.06                  |
| 23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                                  | 5,891.45                  | 746.67                  |
| 23 34 16 00-0085 EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                              | 6,053.25                  | 811.72                  |
| 23 34 16 00-0086 EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                                  | 6,301.79                  | 933.33                  |
| 23 34 16 00-0087 EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                                  | 6,522.65                  | 1,036.57                |
| 23 34 16 00-0088 EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                                  | 6,900.67                  | 1,244.45                |
| 23 34 16 00-0089 EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....                              | 7,247.83                  | 1,435.36                |
| <b>23 34 16 00-0090 33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure (23 34 16 00-0080)</b>                              |                           |                         |
| 23 34 16 00-0091 EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                                | 6,535.28                  | 666.06                  |
| 23 34 16 00-0092 EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                                | 6,762.73                  | 746.67                  |
| 23 34 16 00-0093 EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                                  | 6,967.35                  | 811.72                  |
| 23 34 16 00-0094 EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                              | 7,258.07                  | 933.33                  |
| 23 34 16 00-0095 EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                                  | 7,521.45                  | 1,036.57                |
| 23 34 16 00-0096 EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                                  | 7,941.95                  | 1,244.45                |
| 23 34 16 00-0097 EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                                  | 8,396.98                  | 1,435.36                |
| 23 34 16 00-0098 EA 7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....                              | 9,097.23                  | 1,866.68                |
| <b>23 34 16 00-0099 36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure (23 34 16 00-0080)</b>                          |                           |                         |
| 23 34 16 00-0100 EA 1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                            | 6,988.00                  | 746.67                  |
| 23 34 16 00-0101 EA 3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                            | 7,198.99                  | 811.72                  |
| 23 34 16 00-0102 EA 1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                              | 7,840.33                  | 933.33                  |
| 23 34 16 00-0103 EA 1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                          | 8,280.10                  | 1,036.57                |
| 23 34 16 00-0104 EA 2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                              | 8,849.61                  | 1,244.45                |
| 23 34 16 00-0105 EA 3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                              | 9,297.95                  | 1,435.36                |
| 23 34 16 00-0106 EA 5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                              | 10,249.15                 | 1,866.68                |
| 23 34 16 00-0107 EA 7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....                          | 11,083.15                 | 2,333.34                |
| <b>23 34 16 00-0108 Kitchen System Fans (23 34 16 00-0001)</b>   |                           |                         |
| <b>23 34 16 00-0109 Upblast Kitchen Exhaust Fans (23 34 16 00-0108)</b>  |                           |                         |
| <b>23 34 16 00-0110 Direct Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)</b>   |                           |                         |
| Note: Greenheck CUE.   |                           |                         |
| 23 34 16 00-0111 EA Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan .....                                   | 1,448.45                  | 183.84                  |
| Note: 115V. For roof or wall installations. Includes disconnect switch.  |                           |                         |
| For Bird Screen, Add   | 61.24                     |                         |
| For Backdraft Damper, Add  | 180.77                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 16 00-0112 EA 14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan .....   | 1,691.73                  | 183.84                  |
| Note: 115V. For roof or wall installations. Includes disconnect switch.  |                           |                         |
| For Bird Screen, Add   | 61.24                     |                         |
| For Backdraft Damper, Add  | 180.77                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| <b>23 34 16 00-0113 Belt Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)</b>   |                           |                         |
| Note: Greenheck CUBE.  |                           |                         |
| 23 34 16 00-0114 EA 10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan ..... | 2,460.28                  | 183.84                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| For Bird Screen, Add   | 61.24                     |                         |
| For Wall Mounted Fan, Add  | 98.41                     |                         |
| For 3 Phase Motor, Deduct  | -50.00                    |                         |
| For Totally Enclosed Motor, Add  | 85.00                     |                         |
| For Grease Trap Kit, Add   | 76.41                     |                         |
| For Hinged Curb Kit, Add   | 177.87                    |                         |
| For Backdraft Damper, Add  | 180.77                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 34 16 00-0115 EA 12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 2,565.86                  | 183.84                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 61.24                     |                         |
| <i>For Wall Mounted Fan, Add</i>   | 102.63                    |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 186.85                    |                         |
| <i>For Backdraft Damper, Add</i>   | 180.77                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0116 EA 14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 2,214.89                  | 212.12                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 69.68                     |                         |
| <i>For Wall Mounted Fan, Add</i>   | 88.60                     |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 152.20                    |                         |
| <i>For Backdraft Damper, Add</i>   | 205.17                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0117 EA 14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....    | 2,366.92                  | 212.12                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 69.68                     |                         |
| <i>For Wall Mounted Fan, Add</i>   | 94.68                     |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 165.13                    |                         |
| <i>For Backdraft Damper, Add</i>   | 205.17                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0118 EA 16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 3,003.53                  | 247.48                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 69.68                     |                         |
| <i>For Wall Mounted Fan, Add</i>   | 120.14                    |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 213.23                    |                         |
| <i>For Backdraft Damper, Add</i>   | 205.17                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0119 EA 16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....    | 3,166.12                  | 247.48                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 69.68                     |                         |
| <i>For Wall Mounted Fan, Add</i>   | 126.64                    |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 227.05                    |                         |
| <i>For Backdraft Damper, Add</i>   | 205.17                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0120 EA 18" Diameter Wheel, 1/2 HP , 3,243 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan..... | 3,448.54                  | 265.15                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 116.14                    |                         |
| <i>For Wall Mounted Fan, Add</i>   | 137.94                    |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 248.05                    |                         |
| <i>For Backdraft Damper, Add</i>   | 255.57                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0121 EA 18" Diameter Wheel, 1 HP , 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....   | 3,701.93                  | 265.15                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 116.14                    |                         |
| <i>For Wall Mounted Fan, Add</i>   | 148.08                    |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 269.59                    |                         |
| <i>For Backdraft Damper, Add</i>   | 255.57                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| 23 34 16 00-0122 EA 20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 3,766.85                  | 282.83                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 116.14                    |                         |
| <i>For Wall Mounted Fan, Add</i>   | 150.67                    |                         |
| <i>For 3 Phase Motor, Deduct</i>   | -50.00                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 272.10                    |                         |
| <i>For Backdraft Damper, Add</i>   | 255.57                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 34 16 00-0123 EA 20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....   | 4,123.71                  | 282.83                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 116.14                    |                         |
| For Wall Mounted Fan, Add   | 164.95                    |                         |
| For 3 Phase Motor, Deduct   | -50.00                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 302.43                    |                         |
| For Backdraft Damper, Add   | 255.57                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0124 EA 24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan..... | 4,747.65                  | 318.18                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 137.25                    |                         |
| For Wall Mounted Fan, Add   | 189.91                    |                         |
| For 3 Phase Motor, Deduct   | -50.00                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 349.46                    |                         |
| For Backdraft Damper, Add   | 277.09                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0125 EA 24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....   | 5,074.94                  | 318.18                  |
| Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 137.25                    |                         |
| For Wall Mounted Fan, Add   | 203.00                    |                         |
| For 3 Phase Motor, Deduct   | -50.00                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 377.28                    |                         |
| For Backdraft Damper, Add   | 277.09                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0126 EA 30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan..... | 6,009.30                  | 353.53                  |
| Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 147.81                    |                         |
| For Wall Mounted Fan, Add   | 240.37                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 450.69                    |                         |
| For Backdraft Damper, Add   | 307.27                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0127 EA 30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 6,116.99                  | 353.53                  |
| Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 147.81                    |                         |
| For Wall Mounted Fan, Add   | 244.68                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 459.84                    |                         |
| For Backdraft Damper, Add   | 307.27                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0128 EA 30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 6,663.89                  | 353.53                  |
| Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 147.81                    |                         |
| For Wall Mounted Fan, Add   | 266.56                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 506.33                    |                         |
| For Backdraft Damper, Add   | 307.27                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0129 EA 30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 6,927.84                  | 353.53                  |
| Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 147.81                    |                         |
| For Wall Mounted Fan, Add   | 277.11                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 528.77                    |                         |
| For Backdraft Damper, Add   | 307.27                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| 23 34 16 00-0130 EA 36" Diameter Wheel, 3 HP, 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 7,628.13                  | 388.89                  |
| Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 168.93                    |                         |
| For Wall Mounted Fan, Add   | 305.13                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 582.28                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| For Backdraft Damper, Add   | 360.95                    |                         |
| 23 34 16 00-0131 EA 36" Diameter Wheel, 5 HP, 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....  | 7,931.67                  | 388.89                  |
| Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.  |                           |                         |
| For Bird Screen, Add  | 168.93                    |                         |
| For Wall Mounted Fan, Add   | 317.27                    |                         |
| For Totally Enclosed Motor, Add   | 85.00                     |                         |
| For Grease Trap Kit, Add  | 76.41                     |                         |
| For Hinged Curb Kit, Add  | 608.08                    |                         |
| For Damper Motor, Add   | 292.11                    |                         |
| For Backdraft Damper, Add   | 360.95                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 34 16 00-0132 EA 42" Diameter Wheel, 3 HP , 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....        | 8,010.88                  | 424.25                  |
| Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 168.93                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 608.81                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| <i>For Backdraft Damper, Add</i>   | 418.67                    |                         |
| 23 34 16 00-0133 EA 42" Diameter Wheel, 7-1/2 HP , 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....    | 8,677.30                  | 424.25                  |
| Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.   |                           |                         |
| <i>For Bird Screen, Add</i>  | 168.93                    |                         |
| <i>For Totally Enclosed Motor, Add</i>   | 85.00                     |                         |
| <i>For Grease Trap Kit, Add</i>  | 76.41                     |                         |
| <i>For Hinged Curb Kit, Add</i>  | 665.45                    |                         |
| <i>For Damper Motor, Add</i>   | 292.11                    |                         |
| <i>For Backdraft Damper, Add</i>   | 418.67                    |                         |
| <b>23 34 16 00-0134 Untempered Kitchen Make-Up Air Fans (23 34 16 00-0108)</b>   |                           |                         |
| Note: Roof mounted with downblast discharge, weatherhood and filter.   |                           |                         |
| <b>23 34 16 00-0135 Direct Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)</b>   |                           |                         |
| 23 34 16 00-0136 EA 7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan .....  | 1,673.02                  | 183.84                  |
| Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.                           |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 287.68                    |                         |
| 23 34 16 00-0137 EA 8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan .....  | 1,755.67                  | 183.84                  |
| Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.                           |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 300.08                    |                         |
| 23 34 16 00-0138 EA 9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan .....  | 1,857.09                  | 183.84                  |
| Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.                           |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 315.29                    |                         |
| <b>23 34 16 00-0139 Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)</b>   |                           |                         |
| 23 34 16 00-0140 EA 9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan .....  | 1,896.43                  | 183.84                  |
| Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.               |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 321.20                    |                         |
| 23 34 16 00-0141 EA 10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan .....   | 2,136.46                  | 247.48                  |
| Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.               |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 369.96                    |                         |
| 23 34 16 00-0142 EA 12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan .....   | 2,571.68                  | 282.83                  |
| Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.               |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 442.32                    |                         |
| 23 34 16 00-0143 EA 15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan .....   | 2,987.60                  | 353.53                  |
| Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.                   |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 518.85                    |                         |
| 23 34 16 00-0144 EA 18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan .....   | 3,614.62                  | 424.25                  |
| Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.                   |                           |                         |
| <i>For Extended Weatherhood, Add</i>   | 627.04                    |                         |
| <b>23 34 16 00-0145 Replacement Parts (23 34 16 00-0001)</b>   |                           |                         |
| <b>23 34 16 00-0146 Replace Belts And Accessories (23 34 16 00-0145)</b>   |                           |                         |
| 23 34 16 00-0147 EA Fan Shaft Bearing, Replacement.....  | 1,102.58                  | 503.44                  |
| 23 34 16 00-0148 EA Fan Belt, Replacement.....   | 174.95                    | 68.29                   |
| <b>23 34 16 00-0149 Corrosive Fume Resistant Plastic (23 34 16 00-0001)</b>  |                           |                         |
| <b>23 34 16 00-0150 Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)</b>                              |                           |                         |
| 23 34 16 00-0151 EA 250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                    | 6,372.89                  | 255.41                  |
| <i>For Explosion Proof Motor, Add</i>  | 879.31                    |                         |
| 23 34 16 00-0152 EA 895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                    | 6,932.47                  | 306.80                  |
| <i>For Explosion Proof Motor, Add</i>  | 947.83                    |                         |
| 23 34 16 00-0153 EA 1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                  | 8,227.85                  | 383.50                  |
| <i>For Explosion Proof Motor, Add</i>  | 1,119.13                  |                         |
| 23 34 16 00-0154 EA 2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                    | 8,864.76                  | 511.59                  |
| <i>For Explosion Proof Motor, Add</i>  | 1,176.22                  |                         |
| 23 34 16 00-0155 EA 3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                    | 10,212.94                 | 767.01                  |
| <i>For Explosion Proof Motor, Add</i>  | 1,301.84                  |                         |
| 23 34 16 00-0156 EA 11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                   | 17,685.16                 | 1,534.01                |
| <i>For Explosion Proof Motor, Add</i>  | 2,192.57                  |                         |
| 23 34 16 00-0157 EA 18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic.....                  | 25,778.47                 | 2,192.86                |
| <i>For Explosion Proof Motor, Add</i>  | 3,208.92                  |                         |
| <b>23 34 16 00-0158 Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)</b>  |                           |                         |
| 23 34 16 00-0159 EA 1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... | 6,372.89                  | 255.41                  |
| <i>For Explosion Proof Motor, Add</i>  | 879.31                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 34 HVAC Fans**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 23 34 16 00-0160 EA 1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 6,551.82<br>890.73          | 306.80                  |
| 23 34 16 00-0161 EA 1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 6,705.23<br>890.73          | 383.50                  |
| 23 34 16 00-0162 EA 2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 6,961.49<br>890.73          | 511.59                  |
| 23 34 16 00-0163 EA 3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 9,603.89<br>1,210.48        | 767.01                  |
| 23 34 16 00-0164 EA 4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 9,987.39<br>1,210.48        | 958.75                  |
| 23 34 16 00-0165 EA 4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 10,264.11<br>1,210.48       | 1,097.12                |
| 23 34 16 00-0166 EA 6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 10,523.16<br>1,233.32       | 1,150.50                |
| 23 34 16 00-0167 EA 7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic .....<br><i>For Explosion Proof Motor, Add</i>  | 10,854.96<br>1,244.74       | 1,278.28                |
| <b>23 34 16 00-0168 In-Line Duct Fans</b> <small>(23 34 16 00-0001)</small>   |                             |                         |
| <b>23 34 16 00-0169 Direct Drive In-Line Duct Fans</b> <small>(23 34 16 00-0168)</small><br>Note: Greenheck SQ.   |                             |                         |
| 23 34 16 00-0170 EA Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan .....<br>Note: 115V. Includes disconnect switch.   | 1,724.79                    | 183.84                  |
| 23 34 16 00-0171 EA 13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan .....<br>Note: 115V. Includes disconnect switch.  | 2,195.21                    | 197.98                  |
| 23 34 16 00-0172 EA 14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan .....<br>Note: 115V. Includes disconnect switch.  | 2,405.97                    | 212.12                  |
| <b>23 34 16 00-0173 Belt Drive In-Line Duct Fans</b> <small>(23 34 16 00-0168)</small><br>Note: Greenheck BSQ.  |                             |                         |
| 23 34 16 00-0174 EA Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i>    | 2,511.52<br>-50.00<br>85.00 | 212.12                  |
| 23 34 16 00-0175 EA 13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i>   | 2,887.47<br>-50.00<br>85.00 | 247.48                  |
| 23 34 16 00-0176 EA 13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i>   | 3,239.74<br>-50.00<br>85.00 | 247.48                  |
| 23 34 16 00-0177 EA 13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i> | 3,539.23<br>-50.00<br>85.00 | 247.48                  |
| 23 34 16 00-0178 EA 16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i>   | 3,457.33<br>-50.00<br>85.00 | 282.83                  |
| 23 34 16 00-0179 EA 16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i> | 3,964.52<br>-50.00<br>85.00 | 282.83                  |
| 23 34 16 00-0180 EA 24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan .....<br>Note: 115/208-230/60/1. Includes disconnect switch.<br><i>For 3 Phase Motor, Deduct</i><br><i>For Totally Enclosed Motor, Add</i>            | 5,043.41<br>-50.00<br>85.00 | 353.53                  |
| 23 34 16 00-0181 EA 24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan .....<br>Note: 230/460/60/3. Includes disconnect switch.<br><i>For Totally Enclosed Motor, Add</i>  | 5,323.40<br>85.00           | 353.53                  |
| 23 34 16 00-0182 EA 24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan .....<br>Note: Belt drive. 230/460/60/3. Includes disconnect switch.<br><i>For Totally Enclosed Motor, Add</i>  | 5,520.77<br>85.00           | 353.53                  |
| 23 34 16 00-0183 EA 30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan .....<br>Note: 230/460/60/3. Includes disconnect switch.<br><i>For Totally Enclosed Motor, Add</i>  | 6,388.66<br>85.00           | 424.25                  |
| 23 34 16 00-0184 EA 30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan .....<br>Note: 230/460/60/3. Includes disconnect switch.<br><i>For Totally Enclosed Motor, Add</i>  | 6,624.23<br>85.00           | 424.25                  |
| 23 34 16 00-0185 EA 30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan .....<br>Note: 230/460/60/3. Includes disconnect switch.<br><i>For Totally Enclosed Motor, Add</i>  | 6,913.72<br>85.00           | 424.25                  |
| <b>23 34 16 00-0186 In-Line Cabinet Fans</b> <small>(23 34 16 00-0001)</small>  |                             |                         |
| 23 34 16 00-0187 EA 77 - 124 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....   | 565.74                      | 123.73                  |
| 23 34 16 00-0188 EA 91 - 138 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....   | 565.74                      | 123.73                  |
| 23 34 16 00-0189 EA 82 - 266 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....   | 639.98                      | 130.80                  |
| 23 34 16 00-0190 EA 281 - 412 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 704.01                      | 130.80                  |
| 23 34 16 00-0191 EA 190 CFM, 115 Volt, Direct Drive Cabinet Fan.....  | 878.90                      | 130.80                  |
| 23 34 16 00-0192 EA 217 - 447 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 732.59                      | 130.80                  |
| 23 34 16 00-0193 EA 325 - 545 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 833.09                      | 130.80                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 34 16 00-0194 EA 250 - 545 CFM, 115 Volt, 1/6 HP, Direct Drive In-Line Cabinet Fan.....                                      | 1,542.48                  | 130.80                  |
| 23 34 16 00-0195 EA 419 - 766 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 975.31                    | 137.87                  |
| 23 34 16 00-0196 EA 334 - 737 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 991.08                    | 137.87                  |
| 23 34 16 00-0197 EA 350 - 737 CFM, 120 Volt, 1/4 HP, Direct Drive In-Line Cabinet Fan.....                                      | 1,605.90                  | 137.87                  |
| 23 34 16 00-0198 EA 527 - 813 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 991.08                    | 137.87                  |
| 23 34 16 00-0199 EA 631 - 908 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....  | 1,321.14                  | 137.87                  |
| 23 34 16 00-0200 EA 752 - 1244 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....   | 1,321.14                  | 137.87                  |
| 23 34 16 00-0201 EA 1043 - 1584 CFM, 115 Volt, 1/3 HP, Direct Drive In-Line Cabinet Fan.....                                    | 1,321.14                  | 137.87                  |
| 23 34 16 00-0202 EA 999 - 1672 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....   | 1,431.50                  | 137.87                  |
| <b>23 34 16 00-0203 Propeller And Ceiling Fans (23 34 16)</b>   |                           |                         |
| <b>23 34 16 00-0204 Direct Drive, Sidewall Propeller Exhaust Fan (23 34 16 00-0203)</b>   |                           |                         |
| Note: Greenheck SE1.  |                           |                         |
| 23 34 16 00-0205 EA 1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....   | 784.77                    | 151.31                  |
| Note: Includes motor side guard.  |                           |                         |
|   |                           | 207.07                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 292.97                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
| 23 34 16 00-0206 EA 1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....  | 833.50                    | 168.29                  |
| Note: Includes motor side guard.  |                           |                         |
|   |                           | 222.81                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 292.97                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
| 23 34 16 00-0207 EA 1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan ..... | 923.05                    | 186.66                  |
| Note: Includes motor side guard.  |                           |                         |
|   |                           | 244.32                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 300.72                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
| 23 34 16 00-0208 EA 1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan ..... | 1,331.48                  | 206.47                  |
|   |                           | 291.83                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 306.35                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
|   |                           | 250.64                  |
| <i>For Motor Side Guard, Add</i>  |                           |                         |
| 23 34 16 00-0209 EA 1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan ..... | 1,134.81                  | 229.09                  |
|   |                           | 291.83                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 314.11                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
|   |                           | 266.84                  |
| <i>For Motor Side Guard, Add</i>  |                           |                         |
| 23 34 16 00-0210 EA 1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan ..... | 1,273.52                  | 254.55                  |
|   |                           | 353.78                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 321.85                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
|   |                           | 283.03                  |
| <i>For Motor Side Guard, Add</i>  |                           |                         |
| 23 34 16 00-0211 EA 1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan ..... | 1,448.15                  | 282.83                  |
|   |                           | 353.78                  |
| <i>For Backdraft Damper, Add</i>  |                           |                         |
|   |                           | 327.49                  |
| <i>For Wall Mount Collar, Add</i>   |                           |                         |
|   |                           | 305.56                  |
| <i>For Motor Side Guard, Add</i>  |                           |                         |
| <b>23 34 16 00-0212 Belt Drive Propeller Exhaust Fans (23 34 16 00-0203)</b>  |                           |                         |
| Note: Wall shutter 1/8" static pressure, with birdscreen.   |                           |                         |
| 23 34 16 00-0213 EA 24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter.....                          | 2,638.96                  | 404.44                  |
| 23 34 16 00-0214 EA 30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter.....                          | 3,025.29                  | 470.91                  |
| 23 34 16 00-0215 EA 36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter.....                           | 3,442.17                  | 565.66                  |
| 23 34 16 00-0216 EA 42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter.....                       | 4,765.90                  | 707.07                  |
| 23 34 16 00-0217 EA 48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter.....                       | 5,718.72                  | 943.24                  |
| 23 34 16 00-0218 EA 54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter.....                           | 7,978.16                  | 1,414.15                |
| 23 34 16 00-0219 EA 60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter.....                           | 9,614.73                  | 1,812.94                |
| <b>23 34 16 00-0220 Propeller Exhaust Fan Accessories (23 34 16 00-0203)</b>  |                           |                         |
| 23 34 16 00-0221 SF Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening).....                          | 136.91                    |                         |
| 23 34 16 00-0222 SF Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening).....                                     | 312.90                    |                         |
| <b>23 34 16 00-0223 Reversible Ceiling Fans (23 34 16 00-0203)</b>  |                           |                         |
| <b>23 34 16 00-0224 4 Blade Ceiling Fans (23 34 16 00-0223)</b>   |                           |                         |
| 23 34 16 00-0225 EA 42" 4-Blade Ceiling Fan, Three Speed .....  | 632.55                    | 76.24                   |
|   |                           | 20.25                   |
| <i>For Brass Plated Motor, Add</i>  |                           |                         |
|   |                           | 26.27                   |
| <i>For Light Kit, Add</i>   |                           |                         |
| <b>23 34 16 00-0226 5 Blade Ceiling Fans (23 34 16 00-0223)</b>   |                           |                         |
| 23 34 16 00-0227 EA 42" 5-Blade Ceiling Fan, Three Speed .....  | 690.73                    | 188.67                  |
|   |                           | 20.25                   |
| <i>For Brass Plated Motor, Add</i>  |                           |                         |
|   |                           | 26.35                   |
| <i>For Light Kit, Add</i>   |                           |                         |
| 23 34 16 00-0228 EA 52" 5-Blade Ceiling Fan, Three Speed .....  | 787.37                    | 188.67                  |
|   |                           | 20.25                   |
| <i>For Brass Plated Motor, Add</i>  |                           |                         |
|   |                           | 26.50                   |
| <i>For Light Kit, Add</i>   |                           |                         |
| <b>23 34 16 00-0229 3 Blade Weatherproof Ceiling Fans (23 34 16 00-0223)</b>  |                           |                         |
| 23 34 16 00-0230 EA 3-Blade Ceiling Fan, Weatherproof, Three Speed .....  | 642.47                    | 70.00                   |
| <b>23 34 16 00-0231 Explosion Proof Industrial Blowers (23 34 16 00-0203)</b>   |                           |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 34 16 00-0232 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....      | 5,544.60                  |                         |
| 23 34 16 00-0233 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....                      | 6,091.08                  |                         |
| 23 34 16 00-0234 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....        | 8,110.80                  |                         |
| 23 34 16 00-0235 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....                        | 8,487.02                  |                         |
| 23 34 16 00-0236 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure ..... | 5,053.56                  |                         |
| 23 34 16 00-0237 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure .....                 | 5,381.52                  |                         |
| 23 34 16 00-0238 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure .....   | 7,387.67                  |                         |
| 23 34 16 00-0239 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure .....                   | 8,006.47                  |                         |
| <b>23 34 16 00-0240 Exhaust Fans (23 34 16)</b>  |                           |                         |
| <b>23 34 16 00-0241 Exhaust Fans (23 34 16 00-0240)</b><br>Note: Excludes ducting.   |                           |                         |
| <b>23 34 16 00-0242 Light Duty Exhaust Fans (23 34 16 00-0241)</b>   |                           |                         |
| <b>23 34 16 00-0243 Light Duty Exhaust Fans (23 34 16 00-0242)</b>   |                           |                         |
| 23 34 16 00-0244 EA 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 670) .....   | 176.32                    | 61.61                   |
| 23 34 16 00-0245 EA 70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 671) .....   | 185.20                    | 61.61                   |
| 23 34 16 00-0246 EA 180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 505) .....                               | 291.69                    | 61.61                   |
| 23 34 16 00-0247 EA 350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 504) .....                               | 362.91                    | 61.61                   |
| 23 34 16 00-0248 EA 160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 503) .....                              | 326.75                    | 61.61                   |
| 23 34 16 00-0249 EA 270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 502) .....                              | 427.87                    | 61.61                   |
| <b>23 34 16 00-0250 Light Duty Exhaust Fans With Lights (23 34 16 00-0242)</b>   |                           |                         |
| 23 34 16 00-0251 EA 50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678) .....   | 223.77                    | 61.61                   |
| 23 34 16 00-0252 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679) .....   | 245.99                    | 61.61                   |
| 23 34 16 00-0253 EA 100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680) .....  | 441.45                    | 61.61                   |
| <b>23 34 16 00-0254 Light Duty Exhaust Fans With Heaters (23 34 16 00-0242)</b>  |                           |                         |
| 23 34 16 00-0255 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162) .....   | 228.59                    | 61.61                   |
| 23 34 16 00-0256 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658) .....  | 350.45                    | 61.61                   |
| <b>23 34 16 00-0257 Light Duty Exhaust Fans With Heaters And Lights (23 34 16 00-0242)</b>   |                           |                         |
| 23 34 16 00-0258 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655) .....  | 371.58                    | 61.61                   |
| 23 34 16 00-0259 EA 100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL) .....   | 552.97                    | 61.61                   |
| <b>23 34 16 00-0260 Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0241)</b>  |                           |                         |
| <b>23 34 16 00-0261 Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0260)</b><br>Note: Includes enamel steel or aluminum grille.                                       |                           |                         |
| 23 34 16 00-0262 EA 50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50) .....   | 262.15                    | 61.61                   |
| 23 34 16 00-0263 EA 80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80) .....   | 287.62                    | 61.61                   |
| 23 34 16 00-0264 EA 109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG) .....                     | 508.07                    | 61.61                   |
| 23 34 16 00-0265 EA 157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG) .....                     | 519.88                    | 61.61                   |
| 23 34 16 00-0266 EA 210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG) .....                     | 556.62                    | 61.61                   |
| 23 34 16 00-0267 EA 259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG) .....                     | 580.09                    | 61.61                   |
| 23 34 16 00-0268 EA 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG) .....                     | 589.19                    | 61.61                   |
| 23 34 16 00-0269 EA 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400) .....                       | 671.20                    | 61.61                   |
| 23 34 16 00-0270 EA 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500) .....                       | 761.66                    | 61.61                   |
| 23 34 16 00-0271 EA 701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700) .....                       | 813.18                    | 61.61                   |
| 23 34 16 00-0272 EA 901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900) .....                       | 963.70                    | 61.61                   |
| 23 34 16 00-0273 EA 1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500) .....                    | 1,231.83                  | 61.61                   |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 23 34 16 00-0274 |       |     |     | <b>Heavy Duty/Continuous Operation Kitchen Exhaust Fans</b> <small>(23 34 16 00-0260)</small><br>Note: Includes enamel steel or aluminum grille. |                        |                      |
| 23 34 16 00-0275 | EA    |     |     | 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG)..... | 526.76                 | 61.61                |
| 23 34 16 00-0276 | EA    |     |     | 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....   | 754.89                 | 61.61                |
| 23 34 16 00-0277 | EA    |     |     | 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....   | 797.14                 | 61.61                |
| 23 34 16 00-0278 |       |     |     | <b>Heavy Duty/Continuous Operation Exhaust Fans With Lights</b> <small>(23 34 16 00-0260)</small>  |                        |                      |
| 23 34 16 00-0279 | EA    |     |     | 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....                | 283.00                 | 61.61                |
| 23 34 16 00-0280 | EA    |     |     | 80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....                | 306.93                 | 61.61                |
| 23 34 16 00-0281 |       |     |     | <b>Fire Rated, Heavy Duty/Continuous Operation Exhaust Fans</b> <small>(23 34 16 00-0260)</small>  |                        |                      |
| 23 34 16 00-0282 | EA    |     |     | 50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF).....                      | 293.51                 | 61.61                |
| 23 34 16 00-0283 | EA    |     |     | 80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF).....                      | 309.35                 | 61.61                |
| 23 34 16 00-0284 | EA    |     |     | 110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® 110RDF).....                      | 316.99                 | 61.61                |
| 23 34 16 00-0285 |       |     |     | <b>Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans</b> <small>(23 34 16 00-0241)</small>   |                        |                      |
| 23 34 16 00-0286 | EA    |     |     | 900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900).....   | 1,320.84               | 61.61                |
| 23 34 16 00-0287 | EA    |     |     | 1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050).....   | 1,320.84               | 61.61                |
| 23 34 16 00-0288 | EA    |     |     | 1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410).....   | 1,320.84               | 61.61                |
| 23 34 16 00-0289 | EA    |     |     | 1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550).....   | 1,447.35               | 61.61                |
| 23 34 16 00-0290 |       |     |     | <b>Room-To-Room Exhaust Fans</b> <small>(23 34 16 00-0241)</small>   |                        |                      |
| 23 34 16 00-0291 | EA    |     |     | 90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512).....  | 217.79                 | 61.61                |
| 23 34 16 00-0292 | EA    |     |     | 180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511).....   | 347.14                 | 61.61                |
| 23 34 16 00-0293 | EA    |     |     | 380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510).....   | 394.27                 | 61.61                |
| 23 34 16 00-0294 |       |     |     | <b>Through-Wall Exhaust Fans</b> <small>(23 34 16 00-0241)</small>   |                        |                      |
| 23 34 16 00-0295 | EA    |     |     | 250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507).....                                       | 369.63                 | 61.61                |
| 23 34 16 00-0296 | EA    |     |     | 470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506).....                                       | 434.59                 | 61.61                |
| 23 34 16 00-0297 | EA    |     |     | 180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509).....   | 324.96                 | 61.61                |
| 23 34 16 00-0298 | EA    |     |     | 270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508).....   | 427.87                 | 61.61                |
| 23 34 16 00-0299 | EA    |     |     | 360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C).....                                   | 732.54                 | 61.61                |
| 23 34 16 00-0300 |       |     |     | <b>Exhaust Fan Accessories</b> <small>(23 34 16 00-0241)</small>   |                        |                      |
| 23 34 16 00-0301 |       |     |     | <b>Exhaust Fan Controls</b> <small>(23 34 16 00-0300)</small>  |                        |                      |
| 23 34 16 00-0302 | EA    |     |     | Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57).....   | 204.70                 | 38.51                |
| 23 34 16 00-0303 | EA    |     |     | 60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59).....  | 147.24                 | 38.51                |
| 23 34 16 00-0304 | EA    |     |     | 60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61).....   | 148.61                 | 38.51                |
| 23 34 16 00-0305 |       |     |     | <b>Roof And Wall Caps For Exhaust Fans</b> <small>(23 34 16 00-0300)</small>   |                        |                      |
| 23 34 16 00-0306 |       |     |     | <b>Wall Caps For Exhaust Fans</b> <small>(23 34 16 00-0305)</small>  |                        |                      |
| 23 34 16 00-0307 | EA    |     |     | Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613).....  | 331.07                 | 76.80                |
| 23 34 16 00-0308 | EA    |     |     | Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643).....  | 335.59                 | 76.80                |
| 23 34 16 00-0309 |       |     |     | <b>Roof Caps For Exhaust Fans</b> <small>(23 34 16 00-0305)</small><br>Note: Includes flashing and built in bird screen.                         |                        |                      |
| 23 34 16 00-0310 | EA    |     |     | Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611).....   | 284.38                 | 76.80                |
| 23 34 16 00-0311 | EA    |     |     | Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612).....  | 401.86                 | 76.80                |
| 23 34 16 00-0312 | EA    |     |     | CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636).....   | 194.08                 | 76.80                |
| 23 34 16 00-0313 | EA    |     |     | CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634).....   | 229.32                 | 76.80                |
| 23 34 16 00-0314 |       |     |     | <b>Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan</b> <small>(23 34 16 00-0241)</small><br>Note: Includes storage and cleaning.    |                        |                      |
| 23 34 16 00-0315 | EA    |     |     | Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan.....  | 106.06                 |                      |
| <b>23 34 23</b>  |       |     |     | <b>HVAC Power Ventilators</b> <small>(23 34)</small>   |                        |                      |
| 23 34 23 00-0001 |       |     |     | <b>Power Roof Ventilators</b> <small>(23 34 23)</small>  |                        |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 34 23 00-0002 Direct Drive, Aluminum, Centrifugal Roof Exhausters</b> (23 34 23 00-0001)   |                           |                         |
| Note: Greenheck G.   |                           |                         |
| 23 34 23 00-0003 EA 1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....  | 688.50                    | 202.22                  |
| Note: Three speed motor.   |                           |                         |
| For 12" Roof Curb, Add   | 246.99                    |                         |
| For Backdraft Damper, Add  | 167.92                    |                         |
| For Solid State Speed Control, Add   | 126.24                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0004 EA 1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....   | 751.59                    | 229.09                  |
| Note: Three speed motor.   |                           |                         |
| For 12" Roof Curb, Add   | 246.99                    |                         |
| For Backdraft Damper, Add  | 167.92                    |                         |
| For Solid State Speed Control, Add   | 126.24                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0005 EA 1/6 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster..... | 1,053.34                  | 267.27                  |
| For 12" Roof Curb, Add   | 253.32                    |                         |
| For Backdraft Damper, Add  | 180.77                    |                         |
| For Solid State Speed Control, Add   | 126.24                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0006 EA 1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster..... | 1,089.19                  | 301.21                  |
| For 12" Roof Curb, Add   | 253.32                    |                         |
| For Backdraft Damper, Add  | 180.77                    |                         |
| For Solid State Speed Control, Add   | 126.24                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0007 EA 1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster..... | 1,388.45                  | 332.32                  |
| For Solid State Speed Control, Add   | 126.24                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0008 EA 1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster..... | 1,575.20                  | 353.53                  |
| For 12" Roof Curb, Add   | 263.88                    |                         |
| For Backdraft Damper, Add  | 205.17                    |                         |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| <b>23 34 23 00-0009 Belt Drive, Aluminum, Centrifugal Roof Exhausters</b> (23 34 23 00-0001)   |                           |                         |
| Note: Greenheck GB.  |                           |                         |
| 23 34 23 00-0010 EA 1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....   | 1,602.53                  | 360.02                  |
| For 12" Roof Curb, Add   | 253.32                    |                         |
| For Backdraft Damper, Add  | 180.77                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0011 EA 1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....   | 1,743.76                  | 382.21                  |
| For 12" Roof Curb, Add   | 263.88                    |                         |
| For Backdraft Damper, Add  | 205.17                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0012 EA 1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....   | 2,338.26                  | 456.77                  |
| For 12" Roof Curb, Add   | 263.88                    |                         |
| For Backdraft Damper, Add  | 205.17                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0013 EA 3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....   | 2,976.52                  | 565.66                  |
| For 12" Roof Curb, Add   | 314.56                    |                         |
| For Backdraft Damper, Add  | 255.57                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0014 EA 1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....     | 3,911.75                  | 707.07                  |
| For 12" Roof Curb, Add   | 337.79                    |                         |
| For Backdraft Damper, Add  | 277.09                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0015 EA 1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... | 6,246.38                  | 883.84                  |
| For 12" Roof Curb, Add   | 373.69                    |                         |
| For Backdraft Damper, Add  | 307.27                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0016 EA 2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....    | 6,297.06                  | 883.84                  |
| For 12" Roof Curb, Add   | 373.69                    |                         |
| For Backdraft Damper, Add  | 307.27                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0017 EA 3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....    | 6,843.97                  | 883.84                  |
| For 12" Roof Curb, Add   | 373.69                    |                         |
| For Backdraft Damper, Add  | 307.27                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| 23 34 23 00-0018 EA 5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....    | 5,595.83                  | 883.84                  |
| For 12" Roof Curb, Add   | 373.69                    |                         |
| For Backdraft Damper, Add  | 307.27                    |                         |
| For Damper Motor, Add  | 292.11                    |                         |
| <b>23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast</b> (23 34 23 00-0001)  |                           |                         |
| Note: Includes back draft damper and birdscreen and curb.  |                           |                         |
| 23 34 23 00-0020 EA 30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure .....                         | 8,870.98                  | 1,087.48                |
| 23 34 23 00-0021 EA 36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure .....                        | 14,442.84                 | 1,413.73                |
| <b>23 34 23 00-0022 Belt Drive Supply Fans</b> (23 34 23 00-0001)  |                           |                         |
| 23 34 23 00-0023 EA 4,500 CFM, 24" x 24" Supply Fan, Roof Mounted .....  | 3,539.77                  | 564.66                  |
| 23 34 23 00-0024 EA 10,000 CFM, 36" x 36" Supply Fan, Roof Mounted .....   | 4,769.65                  | 706.93                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 34 23 00-0025</b> Fan Thermostat <small>(23 34 23 00-0001)</small>   |                           |                         |
| 23 34 23 00-0026 EA 50 To 120 Degree Line Voltage Fan Thermostat.....  | 161.71                    |                         |
| <b>23 34 23 00-0027</b> Power Wall Ventilators <small>(23 34 23)</small>   |                           |                         |
| <b>23 34 23 00-0028</b> Centrifugal Sidewall Exhausters <small>(23 34 23 00-0027)</small>                                  |                           |                         |
| <b>23 34 23 00-0029</b> Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <small>(23 34 23 00-0028)</small>           |                           |                         |
| Note: Greenheck CW.  |                           |                         |
| 23 34 23 00-0030 EA 1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster.....  | 920.89                    | 227.68                  |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Backdraft Damper, Add  | 228.89                    |                         |
| For Damper Motor, Add  | 495.32                    |                         |
| For Interior Wall Grill, Add   | 140.84                    |                         |
| 23 34 23 00-0031 EA 1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster.....   | 1,058.89                  | 267.27                  |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Backdraft Damper, Add  | 253.29                    |                         |
| For Damper Motor, Add  | 495.32                    |                         |
| For Interior Wall Grill, Add   | 167.60                    |                         |
| 23 34 23 00-0032 EA 1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster..... | 1,541.78                  | 301.21                  |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Backdraft Damper, Add  | 286.36                    |                         |
| For Damper Motor, Add  | 495.32                    |                         |
| For Interior Wall Grill, Add   | 194.34                    |                         |
| <b>23 34 23 00-0033</b> Belt Drive, Aluminum, Centrifugal Sidewall Exhausters <small>(23 34 23 00-0028)</small>            |                           |                         |
| Note: Greenheck CWB.   |                           |                         |
| 23 34 23 00-0034 EA 1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster.....   | 2,652.75                  | 170.27                  |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Backdraft Damper, Add  | 266.23                    |                         |
| For Damper Motor, Add  | 495.32                    |                         |
| For Interior Wall Grill, Add   | 295.00                    |                         |
| 23 34 23 00-0035 EA 1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster.....   | 2,805.51                  | 191.75                  |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Backdraft Damper, Add  | 266.23                    |                         |
| For Damper Motor, Add  | 495.32                    |                         |
| For Interior Wall Grill, Add   | 295.00                    |                         |
| 23 34 23 00-0036 EA 3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster.....   | 3,441.43                  | 219.37                  |
| For Solid State Speed Control, Add   | 191.70                    |                         |
| For Backdraft Damper, Add  | 333.21                    |                         |
| For Damper Motor, Add  | 495.32                    |                         |
| For Interior Wall Grill, Add   | 342.87                    |                         |
| <b>23 34 33</b> Air Curtains <small>(23 34)</small>  |                           |                         |
| <b>23 34 33 00-0001</b> Unheated Air Curtains For Entrances <small>(23 34 33)</small>                                      |                           |                         |
| <b>23 34 33 00-0002</b> Unheated Air Curtains, Standard Velocity <small>(23 34 33 00-0001)</small>                         |                           |                         |
| 23 34 33 00-0003 EA Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated.....  | 2,661.36                  | 1,036.57                |
| Note: Includes housing, mounting brackets and manual controls.   |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add   | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add                  | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø   | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add                               | 624.12                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add   | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add   | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add  | 394.44                    |                         |
| 23 34 33 00-0004 EA Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated.....                                      | 2,693.43                  | 1,036.57                |
| Note: Includes housing, mounting brackets and manual controls.   |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add   | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add                  | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø   | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add                               | 624.12                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add   | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add   | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add  | 394.44                    |                         |
| 23 34 33 00-0005 EA Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated.....  | 2,728.16                  | 1,036.57                |
| Note: Includes housing, mounting brackets and manual controls.   |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add   | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add                  | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø   | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add                               | 624.12                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add   | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add   | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add  | 394.44                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 34 33 00-0006 EA Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated.....                       | 3,302.60                  | 1,036.57                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0007 EA Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated.....                       | 3,771.82                  | 1,244.45                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0008 EA Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated.....                       | 3,972.21                  | 1,244.45                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0009 EA Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated.....                       | 4,422.59                  | 1,435.36                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0010 EA Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated.....                       | 5,222.80                  | 1,435.36                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0011 EA Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated.....                      | 5,324.33                  | 1,435.36                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0012 EA Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated.....                      | 5,594.18                  | 1,435.36                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add | 546.10                    |                         |
| For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø                                | 405.68                    |                         |
| For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add              | 624.12                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |
| 23 34 33 00-0013 Unheated Air Curtains, High Velocity (23 34 33 00-0001)                                  |                           |                         |
| 23 34 33 00-0014 EA High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated .....                 | 3,193.05                  | 1,036.57                |
| Note: Includes housing, mounting brackets and manual controls.  |                           |                         |
| For Door Limit Switch, Combination Roller And Plunger, Add  | 200.61                    |                         |
| For Industrial Floor-Mounted Magnetic Reed Switch Only, Add   | 311.40                    |                         |
| For Flat Side Extension Plates, Add   | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add  | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                              | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add                                     | 394.44                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> | 3,234.47<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,036.57                |
| 23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>   | 3,251.83<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,036.57                |
| 23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>   | 3,285.23<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,036.57                |
| 23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>   | 4,990.16<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,244.45                |
| 23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>   | 5,195.89<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,244.45                |
| 23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>   | 5,570.13<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,435.36                |
| 23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>   | 6,282.17<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,435.36                |
| 23 34 33 00-0022 EA High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>  | 6,356.98<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,435.36                |
| 23 34 33 00-0023 EA High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>  | 6,648.20<br>200.61<br>311.40<br>155.70<br>311.40<br>373.68<br>394.44 | 1,435.36                |
| <b>23 34 33 00-0024 Service Window Unheated Air Curtains</b> (23 34 33 00-0001)<br>Note: Normal window sizes.   |  |                         |
| 23 34 33 00-0025 EA Air Curtain For 2.5' x 5' Service Window, Unheated.....<br>Note: Includes housing, mounting brackets and manual controls.<br><i>For Door Limit Switch, Combination Roller And Plunger, Add</i><br><i>For Flat Side Extension Plates, Add</i><br><i>For Clearance Adjustable-Angle Mounting Bracket, Add</i><br><i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i><br><i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>  | 2,421.00<br>200.61<br>155.70<br>311.40<br>373.68<br>394.44           | 817.37                  |
| <b>23 34 33 00-0026 Heated Air Curtains For Entrances</b> (23 34 33)<br>Note: Includes housing, mounting brackets and manual controls.  |  |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 34 33 00-0027 EA 60" Heated Air Curtain With 1- 300 MBH Heater .....      | 4,288.21                  | 912.84                  |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0028 EA 60" Heated Air Curtain With 1- 400 MBH Heater .....      | 4,616.49                  | 912.84                  |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0029 EA 72" Heated Air Curtain With 1- 350 MBH Heater .....      | 5,144.94                  | 1,095.25                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0030 EA 72" Heated Air Curtain With 2- 250 MBH Heaters .....     | 5,538.87                  | 1,095.25                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0031 EA 96" Heated Air Curtain With 1- 400 MBH Heater .....      | 6,858.71                  | 1,460.11                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0032 EA 96" Heated Air Curtain With 2- 350 MBH Heaters .....     | 7,383.96                  | 1,460.11                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0033 EA 117" Heated Air Curtain With 2- 300 MBH Heaters .....    | 8,357.77                  | 1,779.00                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0034 EA 117" Heated Air Curtain With 2- 400 MBH Heaters .....    | 8,997.91                  | 1,779.00                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0035 EA 147" Heated Air Curtain With 2- 350 MBH Heaters .....    | 10,501.59                 | 2,235.06                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters .....    | 12,093.74                 | 2,235.06                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters .....    | 12,002.74                 | 2,554.66                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters .....    | 13,821.95                 | 2,554.66                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters .....    | 13,712.61                 | 2,919.51                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |
| 23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters .....    | 15,791.70                 | 2,919.51                |
| For Door Limit Switch, Combination Roller And Plunger, Add                   | 200.61                    |                         |
| For Flat Side Extension Plates, Add  | 155.70                    |                         |
| For Clearance Adjustable-Angle Mounting Bracket, Add                         | 311.40                    |                         |
| For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add | 373.68                    |                         |
| For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add        | 394.44                    |                         |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**23 35 Special Exhaust Systems** (23 30)

See CSI section 23 31 13 16-0075 for spiral duct/piping.

**23 35 13 Dust Collection Systems** (23 35)

**23 35 13 13 Sawdust Collection Systems** (23 35 13)

**23 35 13 13-0001 Dust Collector System** (23 35 13 13)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 23 35 13 13-0002 | EA | 1.5 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.    | 4,995.63  | 1,227.21 |
| 23 35 13 13-0003 | EA | 2 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.      | 5,631.38  | 1,457.31 |
| 23 35 13 13-0004 | EA | 2-1/2 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.  | 6,741.91  | 1,687.41 |
| 23 35 13 13-0005 | EA | 3 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.      | 7,716.11  | 1,994.20 |
| 23 35 13 13-0006 | EA | 5 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.      | 15,364.29 | 2,188.84 |
| 23 35 13 13-0007 | EA | 7-1/2 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.  | 18,607.50 | 2,553.65 |
| 23 35 13 13-0008 | EA | 10 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.     | 21,312.06 | 2,918.47 |
| 23 35 13 13-0009 | EA | 15 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin. | 23,988.48 | 3,356.23 |
| 23 35 13 13-0010 | EA | 20 HP Dust Collector Central Vacuum Unit .....<br>Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin. | 26,783.56 | 3,793.99 |

**23 35 13 13-0011 Vacuum Tubing And Accessories** (23 35 13 13)

**23 35 13 13-0012 Galvanized Vacuum Tubing** (23 35 13 13-0011)

|                  |    |  |        |      |
|------------------|----|--|--------|------|
| 23 35 13 13-0013 | LF | 2-1/8" Outside Diameter Vacuum Tubing, Galvanized..... | 11.40  | 2.54 |
| 23 35 13 13-0014 | LF | 2-1/2" Outside Diameter Vacuum Tubing, Galvanized..... | 12.70  | 2.69 |
| 23 35 13 13-0015 | LF | 3" Outside Diameter Vacuum Tubing, Galvanized.....     | 14.91  | 2.83 |
| 23 35 13 13-0016 | LF | 3-1/2" Outside Diameter Vacuum Tubing, Galvanized..... | 19.07  | 2.97 |
| 23 35 13 13-0017 | LF | 4" Outside Diameter Vacuum Tubing, Galvanized.....     | 19.63  | 3.11 |
| 23 35 13 13-0018 | LF | 5" Outside Diameter Vacuum Tubing, Galvanized.....     | 31.69  | 3.54 |
| 23 35 13 13-0019 | LF | 6" Outside Diameter Vacuum Tubing, Galvanized.....     | 35.75  | 4.10 |
| 23 35 13 13-0020 | LF | 8" Outside Diameter Vacuum Tubing, Galvanized.....     | 48.45  | 5.65 |
| 23 35 13 13-0021 | LF | 10" Outside Diameter Vacuum Tubing, Galvanized.....    | 56.97  | 7.07 |
| 23 35 13 13-0022 | LF | 12" Outside Diameter Vacuum Tubing, Galvanized.....    | 137.87 | 9.33 |

**23 35 13 13-0023 Vacuum Fittings, Galvanized** (23 35 13 13-0011)

**23 35 13 13-0024 90 Degree Elbow** (23 35 13 13-0023)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 23 35 13 13-0025 | EA | 2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized..... | 59.00  | 16.26 |
| 23 35 13 13-0026 | EA | 2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized..... | 71.64  | 17.40 |
| 23 35 13 13-0027 | EA | 3" 90 Degree Elbow, Vacuum Tubing, Galvanized.....     | 87.88  | 18.95 |
| 23 35 13 13-0028 | EA | 3-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized..... | 102.79 | 20.51 |
| 23 35 13 13-0029 | EA | 4" 90 Degree Elbow, Vacuum Tubing, Galvanized.....     | 121.50 | 22.63 |
| 23 35 13 13-0030 | EA | 5" 90 Degree Elbow, Vacuum Tubing, Galvanized.....     | 194.54 | 25.17 |
| 23 35 13 13-0031 | EA | 6" 90 Degree Elbow, Vacuum Tubing, Galvanized.....     | 255.59 | 28.28 |
| 23 35 13 13-0032 | EA | 8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....     | 451.99 | 37.75 |

**23 35 13 13-0033 45 Degree Elbow** (23 35 13 13-0023)

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 23 35 13 13-0034 | EA | 2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized..... | 55.80  | 16.26 |
| 23 35 13 13-0035 | EA | 2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized..... | 69.00  | 17.40 |
| 23 35 13 13-0036 | EA | 3" 45 Degree Elbow, Vacuum Tubing, Galvanized.....     | 79.02  | 18.95 |
| 23 35 13 13-0037 | EA | 3-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized..... | 92.80  | 20.51 |
| 23 35 13 13-0038 | EA | 4" 45 Degree Elbow, Vacuum Tubing, Galvanized.....     | 112.26 | 22.63 |
| 23 35 13 13-0039 | EA | 5" 45 Degree Elbow, Vacuum Tubing, Galvanized.....     | 162.49 | 25.17 |
| 23 35 13 13-0040 | EA | 6" 45 Degree Elbow, Vacuum Tubing, Galvanized.....     | 208.45 | 28.28 |
| 23 35 13 13-0041 | EA | 8" 45 Degree Elbow, Vacuum Tubing, Galvanized.....     | 372.80 | 37.75 |

**23 35 13 13-0042 Wye** (23 35 13 13-0023)

|                  |    |  |          |       |
|------------------|----|--|----------|-------|
| 23 35 13 13-0043 | EA | 2-1/8" Wye, Vacuum Tubing, Galvanized..... | 105.77   | 26.87 |
| 23 35 13 13-0044 | EA | 2-1/2" Wye, Vacuum Tubing, Galvanized..... | 125.26   | 28.98 |
| 23 35 13 13-0045 | EA | 3" Wye, Vacuum Tubing, Galvanized.....     | 150.71   | 31.11 |
| 23 35 13 13-0046 | EA | 3-1/2" Wye, Vacuum Tubing, Galvanized..... | 181.07   | 34.65 |
| 23 35 13 13-0047 | EA | 4" Wye, Vacuum Tubing, Galvanized.....     | 237.02   | 37.47 |
| 23 35 13 13-0048 | EA | 5" Wye, Vacuum Tubing, Galvanized.....     | 388.91   | 41.72 |
| 23 35 13 13-0049 | EA | 6" Wye, Vacuum Tubing, Galvanized.....     | 510.87   | 47.37 |
| 23 35 13 13-0050 | EA | 8" Wye, Vacuum Tubing, Galvanized.....     | 987.14   | 51.61 |
| 23 35 13 13-0051 | EA | 10" Wye, Vacuum Tubing, Galvanized.....    | 1,359.20 | 56.56 |
| 23 35 13 13-0052 | EA | 12" Wye, Vacuum Tubing, Galvanized.....    | 1,712.94 | 63.35 |

**23 35 13 13-0053 Reducer** (23 35 13 13-0023)



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 35 13 13-0054 EA 3" Reducer, Vacuum Tubing, Galvanized.....   | 62.04                     | 18.95                   |
| 23 35 13 13-0055 EA 4" Reducer, Vacuum Tubing, Galvanized.....   | 68.75                     | 20.51                   |
| 23 35 13 13-0056 EA 5" Reducer, Vacuum Tubing, Galvanized.....   | 85.08                     | 22.63                   |
| 23 35 13 13-0057 EA 6" Reducer, Vacuum Tubing, Galvanized.....   | 92.18                     | 25.17                   |
| 23 35 13 13-0058 EA 8" Reducer, Vacuum Tubing, Galvanized.....   | 107.24                    | 28.28                   |
| <b>23 35 13 13-0059 Flexible Hose (23 35 13 13-0011)</b>   |                           |                         |
| 23 35 13 13-0060 LF 2" Flexible Hose.....  | 13.79                     | 2.54                    |
| 23 35 13 13-0061 LF 3" Flexible Hose.....  | 16.42                     | 2.83                    |
| 23 35 13 13-0062 LF 4" Flexible Hose.....  | 17.84                     | 3.11                    |
| <b>23 35 13 13-0063 Air Gate Valve, Galvanized (23 35 13 13-0011)</b>  |                           |                         |
| 23 35 13 13-0064 EA 2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 380.53                    | 37.75                   |
| 23 35 13 13-0065 EA 2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 399.04                    | 40.30                   |
| 23 35 13 13-0066 EA 3" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 457.12                    | 43.42                   |
| 23 35 13 13-0067 EA 3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 518.65                    | 46.38                   |
| 23 35 13 13-0068 EA 4" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 583.50                    | 49.21                   |
| 23 35 13 13-0069 EA 5" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 687.91                    | 56.14                   |
| 23 35 13 13-0070 EA 6" Air Gate Valve, Vacuum Tubing, Galvanized.....  | 791.14                    | 62.93                   |
| <b>23 35 16 Engine Exhaust Systems (23 35)</b>   |                           |                         |
| <b>23 35 16 16 Mechanical Engine Exhaust Systems (23 35 16)</b>  |                           |                         |
| <b>23 35 16 16-0001 Tailpipe Exhaust Equipment (23 35 16 16)</b>   |                           |                         |
| <b>23 35 16 16-0002 Overhead Tailpipe Exhaust System (23 35 16 16-0001)</b>  |                           |                         |
| <b>23 35 16 16-0003 Overhead Tailpipe Exhaust Blowers (23 35 16 16-0002)</b>   |                           |                         |
| <b>23 35 16 16-0004 Overhead Direct Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)</b>  |                           |                         |
| 23 35 16 16-0005 EA 495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....                                     | 3,833.99                  | 301.21                  |
| 23 35 16 16-0006 EA 1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....                                   | 4,519.86                  | 615.15                  |
| 23 35 16 16-0007 EA 1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....                                 | 6,256.24                  | 745.25                  |
| <b>23 35 16 16-0008 Overhead Belt Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)</b>  |                           |                         |
| 23 35 16 16-0009 EA 1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....                                       | 4,399.86                  | 615.15                  |
| 23 35 16 16-0010 EA 2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....                                   | 4,714.79                  | 745.25                  |
| 23 35 16 16-0011 EA 2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....                                       | 5,732.86                  | 1,179.40                |
| 23 35 16 16-0012 EA 4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....                                       | 7,039.95                  | 1,521.62                |
| 23 35 16 16-0013 EA 7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....                                       | 8,863.51                  | 1,812.94                |
| <b>23 35 16 16-0014 Spiral Exhaust Duct Accessories (23 35 16 16-0002)</b>   |                           |                         |
| <b>23 35 16 16-0015 Flex Hose x Length (23 35 16 16-0014)</b>  |                           |                         |
| Note: Includes duct coupler, damper and tailpipe adapter.  |                           |                         |
| 23 35 16 16-0016 EA 3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....                | 204.75                    | 74.95                   |
| 23 35 16 16-0017 EA 3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....              | 179.23                    | 74.95                   |
| 23 35 16 16-0018 EA 4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....                | 315.48                    | 118.79                  |
| 23 35 16 16-0019 EA 4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....              | 272.84                    | 118.79                  |
| 23 35 16 16-0020 EA 5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....                | 455.83                    | 188.08                  |
| 23 35 16 16-0021 EA 5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....              | 440.56                    | 188.08                  |
| 23 35 16 16-0022 EA 6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....                | 700.85                    | 298.39                  |
| 23 35 16 16-0023 EA 6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....              | 668.75                    | 298.39                  |
| <b>23 35 16 16-0024 Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter (23 35 16 16-0014)</b>                          |                           |                         |
| 23 35 16 16-0025 EA 4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....                | 225.10                    | 74.95                   |
| 23 35 16 16-0026 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....                | 330.34                    | 118.79                  |
| 23 35 16 16-0027 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....              | 195.70                    | 74.95                   |
| 23 35 16 16-0028 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....              | 286.73                    | 118.79                  |
| 23 35 16 16-0029 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter..... | 1,581.26                  | 100.97                  |
| 23 35 16 16-0030 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter.....  | 1,420.26                  | 185.25                  |
| 23 35 16 16-0031 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter..... | 1,558.46                  | 185.25                  |
| 23 35 16 16-0032 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.).....  | 76.31                     | 14.42                   |
| 23 35 16 16-0033 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.).....   | 84.80                     | 14.42                   |
| <b>23 35 16 16-0034 Flexible Hose (23 35 16 16-0014)</b>   |                           |                         |
| 23 35 16 16-0035 LF 3" Stainless Steel Flexible Tubing.....  | 41.58                     | 3.54                    |
| 23 35 16 16-0036 LF 4" Stainless Steel Flexible Tubing.....  | 52.71                     | 3.96                    |
| 23 35 16 16-0037 LF 5" Stainless Steel Flexible Tubing.....  | 62.46                     | 4.10                    |
| 23 35 16 16-0038 LF 6" Stainless Steel Flexible Tubing.....  | 73.54                     | 4.38                    |
| 23 35 16 16-0039 LF 3" Galvanized Flexible Tubing.....   | 25.34                     | 3.54                    |
| 23 35 16 16-0040 LF 4" Galvanized Flexible Tubing.....   | 29.68                     | 3.96                    |
| 23 35 16 16-0041 LF 5" Galvanized Flexible Tubing.....   | 33.94                     | 4.10                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 35 16 16-0042 LF 6" Galvanized Flexible Tubing .....  | 37.80                     | 4.38                    |
| <b>23 35 16 16-0043 Accessories</b> <small>(23 35 16 16-0002)</small>  |                           |                         |
| 23 35 16 16-0044 EA 3" Tail Pipe Adapter .....   | 63.39                     | 10.61                   |
| 23 35 16 16-0045 EA 4" Tail Pipe Adapter .....   | 65.08                     | 10.61                   |
| 23 35 16 16-0046 EA 5" Tail Pipe Adapter .....   | 69.60                     | 12.02                   |
| 23 35 16 16-0047 EA 3" Bullnose (Guide).....   | 35.70                     | 7.07                    |
| 23 35 16 16-0048 EA 4" Bullnose (Guide).....   | 38.06                     | 7.77                    |
| 23 35 16 16-0049 EA 5" Bullnose (Guide).....   | 40.69                     | 8.49                    |
| 23 35 16 16-0050 EA Flex-Hose Winch And Associated Hardware .....  | 273.88                    | 80.19                   |
| 23 35 16 16-0051 LF Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope .....   | 0.14                      |                         |
| <b>23 35 16 16-0052 Automatic Exhaust Extraction System</b> <small>(23 35 16 16-0001)</small>  |                           |                         |
| <small>Note: (Neiderman System) Includes track, hydraulic shock absorber, automatic disconnect box, flexible hose, electromagnetic ergonomic positioner, nozzle, power supply and accessories.</small> |                           |                         |
| 23 35 16 16-0053 EA Magnatrack System For One Vehicle (30" To 40" Track) .....   | 40,344.75                 |                         |
| 23 35 16 16-0054 EA Magnatrack System For Two Vehicles (2 Each 30" Tracks).....  | 58,275.75                 |                         |
| 23 35 16 16-0055 EA Magnatrack System For Tandem Vehicles (2 Each 30" Tracks).....   | 58,275.75                 |                         |
| 23 35 16 16-0056 EA Magnarail System For One Vehicle (33" Rail) .....  | 47,816.00                 |                         |
| 23 35 16 16-0057 EA Magnarail System For Two Vehicles in Tandem (66" Rail).....  | 71,724.00                 |                         |
| 23 35 16 16-0058 EA Magnastack For One Vehicle, Vertical Exhaust Stacks (30" Stack) .....  | 37,356.25                 |                         |
| <b>23 35 19 Fume Exhaust Systems</b> <small>(23 35)</small>  |                           |                         |
| 23 35 19 00-0001 EA Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle.....  | 2,815.64                  | 565.24                  |
| 23 35 19 00-0002 EA Hose Extension Kit 5' .....  | 491.98                    | 125.57                  |
| <b>23 36 Air Terminal Units</b> <small>(23 30)</small>   |                           |                         |
| <b>23 36 13 Constant-Air-Volume Units</b> <small>(23 36)</small>   |                           |                         |
| <b>23 36 13 00-0001 Vertical Units, With Electric Heating Coils</b> <small>(23 36 13)</small>  |                           |                         |
| 23 36 13 00-0002 EA 60 CFM Vertical Induction Unit, With Electric Heating Coils .....  | 1,776.43                  | 199.13                  |
| 23 36 13 00-0003 EA 90 CFM Vertical Induction Unit, With Electric Heating Coils .....  | 2,125.17                  | 214.45                  |
| 23 36 13 00-0004 EA 120 CFM Vertical Induction Unit, With Electric Heating Coils .....   | 2,264.12                  | 222.11                  |
| 23 36 13 00-0005 EA 150 CFM Vertical Induction Unit, With Electric Heating Coils .....   | 2,418.37                  | 237.42                  |
| 23 36 13 00-0006 EA 175 CFM Vertical Induction Unit, With Electric Heating Coils .....   | 2,717.28                  | 245.08                  |
| <b>23 36 13 00-0007 Horizontal Units, With Electric Heating Coils</b> <small>(23 36 13)</small>  |                           |                         |
| 23 36 13 00-0008 EA 60 CFM Horizontal Induction Unit, With Electric Heating Coils .....  | 1,522.07                  | 199.13                  |
| 23 36 13 00-0009 EA 90 CFM Horizontal Induction Unit, With Electric Heating Coils .....  | 1,807.07                  | 214.45                  |
| 23 36 13 00-0010 EA 120 CFM Horizontal Induction Unit, With Electric Heating Coils .....   | 2,142.06                  | 225.94                  |
| <b>23 36 13 00-0011 Duct Boxes, Constant Volume Control</b> <small>(23 36 13)</small>  |                           |                         |
| <b>23 36 13 00-0012 Single Duct Boxes, Constant Volume Control</b> <small>(23 36 13 00-0011)</small>   |                           |                         |
| 23 36 13 00-0013 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control .....  | 1,427.31                  | 58.30                   |
| <i>For Boxes With Motor, Add</i>   | 239.44                    |                         |
| 23 36 13 00-0014 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control .....   | 1,579.08                  | 62.89                   |
| <i>For Boxes With Motor, Add</i>   | 265.61                    |                         |
| 23 36 13 00-0015 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control .....  | 1,643.43                  | 69.03                   |
| <i>For Boxes With Motor, Add</i>   | 273.46                    |                         |
| 23 36 13 00-0016 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control .....  | 1,674.57                  | 72.10                   |
| <i>For Boxes With Motor, Add</i>   | 277.39                    |                         |
| 23 36 13 00-0017 EA 12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control .....  | 1,704.32                  | 79.77                   |
| <i>For Boxes With Motor, Add</i>   | 277.39                    |                         |
| 23 36 13 00-0018 EA 14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control .....  | 1,948.34                  | 88.97                   |
| <i>For Boxes With Motor, Add</i>   | 317.95                    |                         |
| 23 36 13 00-0019 EA 16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control .....  | 2,048.79                  | 99.71                   |
| <i>For Boxes With Motor, Add</i>   | 329.72                    |                         |
| 23 36 13 00-0020 EA 20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control.....  | 2,184.15                  | 119.66                  |
| <i>For Boxes With Motor, Add</i>   | 341.62                    |                         |
| 23 36 13 00-0021 EA 24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control.....  | 2,318.63                  | 138.06                  |
| <i>For Boxes With Motor, Add</i>   | 353.28                    |                         |
| <b>23 36 13 00-0022 Dual Duct Boxes, Constant Volume Control</b> <small>(23 36 13 00-0011)</small>   |                           |                         |
| 23 36 13 00-0023 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control.....   | 1,990.53                  | 58.30                   |
| <i>For Boxes With Motor, Add</i>   | 352.09                    |                         |
| 23 36 13 00-0024 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control.....  | 2,130.29                  | 62.89                   |
| <i>For Boxes With Motor, Add</i>   | 375.85                    |                         |
| 23 36 13 00-0025 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control.....   | 2,225.96                  | 69.03                   |
| <i>For Boxes With Motor, Add</i>   | 389.97                    |                         |
| 23 36 13 00-0026 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control.....   | 2,319.18                  | 72.10                   |
| <i>For Boxes With Motor, Add</i>   | 406.31                    |                         |
| 23 36 13 00-0027 EA 12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control .....  | 2,348.93                  | 79.77                   |
| <i>For Boxes With Motor, Add</i>   | 406.31                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 36 Air Terminal Units**



| MINOR<br>CSI                                      | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|-----|--|---------------------------|-------------------------|
| 23 36 13 00-0028                                  | EA  | 14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control  | 2,698.41                  | 90.51                   |
|   |     | <i>For Boxes With Motor, Add</i>   | 467.96                    |                         |
| 23 36 13 00-0029                                  | EA  | 16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control  | 2,951.44                  | 99.71                   |
|   |     | <i>For Boxes With Motor, Add</i>   | 510.30                    |                         |
| 23 36 13 00-0030                                  | EA  | 20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control   | 3,187.27                  | 119.66                  |
|   |     | <i>For Boxes With Motor, Add</i>   | 542.24                    |                         |
| 23 36 13 00-0031                                  | EA  | 24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control   | 3,337.73                  | 138.06                  |
|   |     | <i>For Boxes With Motor, Add</i>   | 557.10                    |                         |
| <b>23 36 16 Variable-Air-Volume Units (23 36)</b> |     |  |                           |                         |
| 23 36 16 00-0001                                  |     | <b>Variable Volume Terminal Unit (23 36 16)</b><br>Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat. |                           |                         |
| 23 36 16 00-0002                                  |     | <b>Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)</b><br>Note: Enclosure only. For mounting DDC controls.                      |                           |                         |
| 23 36 16 00-0003                                  | EA  | 6" Diameter Inlet, 80 To 500 CFM, Variable Air Volume Box With Enclosure Only  | 654.13                    | 70.56                   |
|   |     | Note: For mounting DDC controls  |                           |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0004                                  | EA  | 8" Diameter Inlet, 145 To 900 CFM, Variable Air Volume Box With Enclosure Only   | 732.95                    | 79.77                   |
|   |     | Note: For mounting DDC controls  |                           |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0005                                  | EA  | 10" Diameter Inlet, 230 To 1,400 CFM, Variable Air Volume Box With Enclosure Only  | 816.88                    | 88.97                   |
|   |     | Note: For mounting DDC controls  |                           |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0006                                  | EA  | 12" Diameter Inlet, 325 To 2,000 CFM, Variable Air Volume Box With Enclosure Only  | 875.04                    | 99.71                   |
|   |     | Note: For mounting DDC controls  |                           |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0007                                  | EA  | 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With Enclosure Only  | 1,203.26                  | 214.61                  |
|   |     | Note: For mounting DDC controls  |                           |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0008                                  | EA  | 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With Enclosure Only  | 1,474.91                  | 254.65                  |
|   |     | Note: For mounting DDC controls  |                           |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0009                                  |     | <b>Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)</b><br>Note: With pneumatic controls.  |                           |                         |
| 23 36 16 00-0010                                  | EA  | 6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller   | 1,312.14                  | 70.56                   |
|   |     | <i>For Fan Powered Variable Air Volume Box, Add</i>  | 1,340.88                  |                         |
|   |     | <i>For Hot Water Coils, Add</i>  | 419.02                    |                         |
|   |     | <i>For Pressure Independent Actuator, Add</i>  | 67.57                     |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0011                                  | EA  | 8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller  | 1,421.84                  | 79.77                   |
|   |     | <i>For Fan Powered Variable Air Volume Box, Add</i>  | 1,436.74                  |                         |
|   |     | <i>For Hot Water Coils, Add</i>  | 447.92                    |                         |
|   |     | <i>For Pressure Independent Actuator, Add</i>  | 67.57                     |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0012                                  | EA  | 10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller   | 1,493.90                  | 88.97                   |
|   |     | <i>For Fan Powered Variable Air Volume Box, Add</i>  | 1,482.62                  |                         |
|   |     | <i>For Hot Water Coils, Add</i>  | 460.44                    |                         |
|   |     | <i>For Pressure Independent Actuator, Add</i>  | 67.57                     |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0013                                  | EA  | 12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller   | 1,563.93                  | 99.71                   |
|   |     | <i>For Fan Powered Variable Air Volume Box, Add</i>  | 1,525.58                  |                         |
|   |     | <i>For Hot Water Coils, Add</i>  | 472.00                    |                         |
|   |     | <i>For Pressure Independent Actuator, Add</i>  | 67.57                     |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0014                                  | EA  | 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller  | 1,828.02                  | 214.61                  |
|   |     | <i>For Fan Powered Variable Air Volume Box, Add</i>  | 1,715.00                  |                         |
|   |     | <i>For Hot Water Coils, Add</i>  | 525.94                    |                         |
|   |     | <i>For Pressure Independent Actuator, Add</i>  | 67.57                     |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0015                                  | EA  | 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller  | 2,151.92                  | 254.65                  |
|   |     | <i>For Fan Powered Variable Air Volume Box, Add</i>  | 1,866.51                  |                         |
|   |     | <i>For Hot Water Coils, Add</i>  | 561.58                    |                         |
|   |     | <i>For Pressure Independent Actuator, Add</i>  | 67.57                     |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0016                                  |     | <b>Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)</b><br>Note: With analog electronic controls.                                |                           |                         |
| 23 36 16 00-0017                                  | EA  | 6" Diameter Inlet, 60 To 500 CFM, Variable Air Volume Box With Analog Electronic Controls  | 2,131.68                  | 70.56                   |
|   |     | <i>For Hot Water Coils, Add</i>  | 751.34                    |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0018                                  | EA  | 8" Diameter Inlet, 105 To 900 CFM, Variable Air Volume Box With Analog Electronic Controls   | 2,222.38                  | 79.77                   |
|   |     | <i>For Hot Water Coils, Add</i>  | 772.53                    |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0019                                  | EA  | 10" Diameter Inlet, 165 To 1,400 CFM, Variable Air Volume Box With Analog Electronic Controls  | 2,306.31                  | 88.97                   |
|   |     | <i>For Hot Water Coils, Add</i>  | 789.87                    |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |
| 23 36 16 00-0020                                  | EA  | 12" Diameter Inlet, 235 To 2,000 CFM, Variable Air Volume Box With Analog Electronic Controls  | 2,421.48                  | 99.71                   |
|   |     | <i>For Hot Water Coils, Add</i>  | 819.73                    |                         |
|   |     | <i>For Filters And Frames, Add</i>   | 6.30                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                     | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 23 36 16 00-0021 EA 14" Diameter Inlet, 320 To 3,000 CFM, Variable Air Volume Box With Analog Electronic Controls .....<br><i>For Hot Water Coils, Add</i><br><i>For Filters And Frames, Add</i>  | 2,687.95<br>874.64<br>6.30                    | 214.61                  |
| 23 36 16 00-0022 EA 16" Diameter Inlet, 420 To 4,000 CFM, Variable Air Volume Box With Analog Electronic Controls .....<br><i>For Hot Water Coils, Add</i><br><i>For Filters And Frames, Add</i>  | 2,735.46<br>893.91<br>6.30                    | 214.61                  |
| <b>23 36 16 00-0023 Dual Duct Variable Volume Terminal Unit</b> <small>(23 36 16 00-0001)</small><br>Note: With flow control installation, plenum system power box, thermostat.   |   |                         |
| 23 36 16 00-0024 EA 6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct.....<br><i>For Filters And Frames, Add</i>  | 1,478.53<br>6.30                              | 139.44                  |
| 23 36 16 00-0025 EA 8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct.....<br><i>For Filters And Frames, Add</i>   | 1,619.22<br>6.30                              | 158.77                  |
| 23 36 16 00-0026 EA 10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct.....<br><i>For Filters And Frames, Add</i>  | 1,737.02<br>6.30                              | 179.33                  |
| 23 36 16 00-0027 EA 12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct.....<br><i>For Filters And Frames, Add</i>  | 1,906.22<br>6.30                              | 200.03                  |
| 23 36 16 00-0028 EA 14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct.....<br><i>For Filters And Frames, Add</i>  | 2,144.93<br>6.30                              | 230.10                  |
| 23 36 16 00-0029 EA 16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct.....<br><i>For Filters And Frames, Add</i>  | 2,364.61<br>6.30                              | 276.12                  |
| <b>23 36 16 00-0030 Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M)</b> <small>(23 36 16 00-0001)</small>  |   |                         |
| 23 36 16 00-0031 EA 0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A).....<br><i>For Filters And Frames, Add</i>   | 687.46<br>6.30                                | 95.88                   |
| 23 36 16 00-0032 EA 0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B).....<br><i>For Filters And Frames, Add</i>   | 747.09<br>6.30                                | 105.46                  |
| 23 36 16 00-0033 EA 0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C).....<br><i>For Filters And Frames, Add</i>   | 808.21<br>6.30                                | 115.05                  |
| 23 36 16 00-0034 EA 0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D).....<br><i>For Filters And Frames, Add</i>   | 870.93<br>6.30                                | 124.63                  |
| 23 36 16 00-0035 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E).....<br><i>For Filters And Frames, Add</i>   | 935.34<br>6.30                                | 134.23                  |
| 23 36 16 00-0036 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F).....<br><i>For Filters And Frames, Add</i>   | 1,001.57<br>6.30                              | 143.82                  |
| 23 36 16 00-0037 EA 0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G).....<br><i>For Filters And Frames, Add</i>   | 1,074.79<br>6.30                              | 153.40                  |
| 23 36 16 00-0038 EA 0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H).....<br><i>For Filters And Frames, Add</i>   | 1,145.43<br>6.30                              | 162.99                  |
| 23 36 16 00-0039 EA 0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J).....<br><i>For Filters And Frames, Add</i>   | 1,218.32<br>6.30                              | 172.57                  |
| 23 36 16 00-0040 EA 0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K).....<br><i>For Filters And Frames, Add</i>   | 1,293.62<br>6.30                              | 182.17                  |
| 23 36 16 00-0041 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L).....<br><i>For Filters And Frames, Add</i>   | 1,371.54<br>6.30                              | 191.75                  |
| 23 36 16 00-0042 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M).....<br><i>For Filters And Frames, Add</i>   | 1,452.19<br>6.30                              | 201.34                  |
| 23 36 16 00-0043 EA 0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N).....<br><i>For Filters And Frames, Add</i>   | 1,535.81<br>6.30                              | 210.93                  |
| 23 36 16 00-0044 EA 0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P).....<br><i>For Filters And Frames, Add</i>  | 1,615.75<br>6.30                              | 220.51                  |
| 23 36 16 00-0045 EA 0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R).....<br><i>For Filters And Frames, Add</i>  | 1,705.47<br>6.30                              | 230.10                  |
| <b>23 37 Air Outlets and Inlets</b> <small>(23 30)</small>  |   |                         |
| <b>23 37 13 Diffusers, Registers, and Grilles</b> <small>(23 37)</small>  |   |                         |
| <b>23 37 13 13 Diffusers, Registers, and Grilles</b> <small>(23 37 13)</small>  |   |                         |
| <b>23 37 13 13-0001 Ceiling Diffusers</b> <small>(23 37 13 13)</small>  |   |                         |
| <b>23 37 13 13-0002 Ceiling Diffusers With Perforated Face</b> <small>(23 37 13 13-0001)</small><br>Note: Flush mount, aluminum construction, includes damper.  |   |                         |
| 23 37 13 13-0003 EA 6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper .....<br><i>For Steel Construction, Deduct</i><br><i>For Surface Mount, Deduct</i><br><i>For Diffuser Without Damper, Deduct</i><br><i>For Stainless Steel, Add</i> | 136.77<br>-8.68<br>-6.94<br>-11.57<br>144.68  | 19.94                   |
| 23 37 13 13-0004 EA 8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper .....<br><i>For Steel Construction, Deduct</i><br><i>For Surface Mount, Deduct</i><br><i>For Diffuser Without Damper, Deduct</i><br><i>For Stainless Steel, Add</i> | 149.63<br>-10.61<br>-8.49<br>-14.15<br>176.83 | 19.94                   |
| 23 37 13 13-0005 EA 9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper .....<br><i>For Steel Construction, Deduct</i><br><i>For Surface Mount, Deduct</i><br><i>For Diffuser Without Damper, Deduct</i><br><i>For Stainless Steel, Add</i> | 149.63<br>-10.61<br>-8.49<br>-14.15<br>176.83 | 19.94                   |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 37 Air Outlets and Inlets**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 23 37 13 | 13-0006 | EA  | 10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper                 | 179.87                 | 24.54                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -12.70                 |                      |
|          |         |     | <i>For Surface Mount, Deduct</i>  | -10.16                 |                      |
|          |         |     | <i>For Diffuser Without Damper, Deduct</i>  | -16.93                 |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 211.65                 |                      |
| 23 37 13 | 13-0007 | EA  | 12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper                 | 179.87                 | 23.01                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -12.70                 |                      |
|          |         |     | <i>For Surface Mount, Deduct</i>  | -10.16                 |                      |
|          |         |     | <i>For Diffuser Without Damper, Deduct</i>  | -16.93                 |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 211.65                 |                      |
| 23 37 13 | 13-0008 | EA  | 16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper                 | 203.45                 | 23.01                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -16.24                 |                      |
|          |         |     | <i>For Surface Mount, Deduct</i>  | -12.99                 |                      |
|          |         |     | <i>For Diffuser Without Damper, Deduct</i>  | -21.65                 |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 270.60                 |                      |
| 23 37 13 | 13-0009 | EA  | 18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper                 | 235.92                 | 30.68                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -17.46                 |                      |
|          |         |     | <i>For Surface Mount, Deduct</i>  | -13.97                 |                      |
|          |         |     | <i>For Diffuser Without Damper, Deduct</i>  | -23.28                 |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 290.95                 |                      |
| 23 37 13 | 13-0010 | EA  | 20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper                 | 270.83                 | 32.21                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -21.80                 |                      |
|          |         |     | <i>For Surface Mount, Deduct</i>  | -17.44                 |                      |
|          |         |     | <i>For Diffuser Without Damper, Deduct</i>  | -29.06                 |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 363.30                 |                      |
| 23 37 13 | 13-0011 | EA  | 24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper                 | 307.71                 | 36.82                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -24.24                 |                      |
|          |         |     | <i>For Surface Mount, Deduct</i>  | -19.39                 |                      |
|          |         |     | <i>For Lay-In Mount, Deduct</i>   | -19.39                 |                      |
|          |         |     | <i>For Diffuser Without Damper, Deduct</i>  | -32.32                 |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 404.03                 |                      |
| 23 37 13 | 13-0012 |     | <b>Ceiling Diffusers With Louver Face</b> <small>(23 37 13 13-0001)</small>                                     |                        |                      |
|          |         |     | Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.                                       |                        |                      |
| 23 37 13 | 13-0013 | EA  | 6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper   | 141.06                 | 19.94                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -9.32                  |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 9.32                   |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 155.40                 |                      |
| 23 37 13 | 13-0014 | EA  | 8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper   | 157.78                 | 19.94                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -11.83                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 11.83                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 197.20                 |                      |
| 23 37 13 | 13-0015 | EA  | 9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper   | 157.78                 | 19.94                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -11.83                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 11.83                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 197.20                 |                      |
| 23 37 13 | 13-0016 | EA  | 10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 189.52                 | 23.01                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -14.15                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 14.15                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 235.78                 |                      |
| 23 37 13 | 13-0017 | EA  | 12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 189.52                 | 24.54                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -14.15                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 14.15                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 235.78                 |                      |
| 23 37 13 | 13-0018 | EA  | 24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 243.51                 | 30.68                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -18.52                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 18.52                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 308.65                 |                      |
| 23 37 13 | 13-0019 | EA  | 14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 220.79                 | 30.68                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -15.11                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 15.11                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 251.85                 |                      |
| 23 37 13 | 13-0020 | EA  | 18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 274.57                 | 36.82                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -19.39                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 19.39                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 323.10                 |                      |
| 23 37 13 | 13-0021 | EA  | 21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 313.98                 | 41.41                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -24.11                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 24.11                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 401.88                 |                      |
| 23 37 13 | 13-0022 | EA  | 24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper | 341.83                 | 81.15                |
|          |         |     | <i>For Steel Construction, Deduct</i>   | -26.91                 |                      |
|          |         |     | <i>For Flush Mount, Add</i>   | 26.91                  |                      |
|          |         |     | <i>For Lay-In Mount, Add</i>  | 35.88                  |                      |
|          |         |     | <i>For Stainless Steel, Add</i>   | 448.50                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 37 13 13-0023 Round Ceiling Diffusers With Fixed Pattern <small>(23 37 13 13-0001)</small></b>                    |                           |                         |
| Note: Aluminum construction.  |                           |                         |
| 23 37 13 13-0024 EA 6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                           | 218.03                    | 19.94                   |
| For Steel Construction, Deduct  | -41.74                    |                         |
| For Stainless Steel, Add  | 347.83                    |                         |
| 23 37 13 13-0025 EA 8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                           | 225.16                    | 19.94                   |
| For Steel Construction, Deduct  | -43.88                    |                         |
| For Stainless Steel, Add  | 365.65                    |                         |
| 23 37 13 13-0026 EA 10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 255.74                    | 24.54                   |
| For Steel Construction, Deduct  | -48.16                    |                         |
| For Stainless Steel, Add  | 401.33                    |                         |
| 23 37 13 13-0027 EA 12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 273.58                    | 23.01                   |
| For Steel Construction, Deduct  | -53.51                    |                         |
| For Stainless Steel, Add  | 445.93                    |                         |
| 23 37 13 13-0028 EA 14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 385.14                    | 27.61                   |
| For Steel Construction, Deduct  | -82.41                    |                         |
| For Stainless Steel, Add  | 686.73                    |                         |
| 23 37 13 13-0029 EA 16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 405.79                    | 29.15                   |
| For Steel Construction, Deduct  | -87.22                    |                         |
| For Stainless Steel, Add  | 726.85                    |                         |
| 23 37 13 13-0030 EA 18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 426.84                    | 30.68                   |
| For Steel Construction, Deduct  | -92.04                    |                         |
| For Stainless Steel, Add  | 766.98                    |                         |
| 23 37 13 13-0031 EA 20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 490.17                    | 30.68                   |
| For Steel Construction, Deduct  | -109.40                   |                         |
| For Stainless Steel, Add  | 911.65                    |                         |
| 23 37 13 13-0032 EA 24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 582.00                    | 35.28                   |
| For Steel Construction, Deduct  | -133.18                   |                         |
| For Stainless Steel, Add  | 1,109.85                  |                         |
| 23 37 13 13-0033 EA 28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 652.69                    | 36.82                   |
| For Steel Construction, Deduct  | -152.21                   |                         |
| For Stainless Steel, Add  | 1,268.40                  |                         |
| 23 37 13 13-0034 EA 32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....                          | 776.81                    | 41.41                   |
| For Steel Construction, Deduct  | -184.31                   |                         |
| For Stainless Steel, Add  | 1,535.95                  |                         |
| <b>23 37 13 13-0035 Round Ceiling Diffusers With Adjustable Pattern Dropped Style <small>(23 37 13 13-0001)</small></b> |                           |                         |
| Note: Aluminum construction.  |                           |                         |
| 23 37 13 13-0036 EA 6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                      | 228.73                    | 19.94                   |
| For Steel Construction, Deduct  | -14.98                    |                         |
| For Flush Mount, Deduct   | -7.49                     |                         |
| For Stainless Steel, Add  | 374.58                    |                         |
| 23 37 13 13-0037 EA 8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                      | 247.16                    | 19.94                   |
| For Steel Construction, Deduct  | -16.83                    |                         |
| For Flush Mount, Deduct   | -8.41                     |                         |
| For Stainless Steel, Add  | 420.65                    |                         |
| 23 37 13 13-0038 EA 10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 281.51                    | 24.54                   |
| For Steel Construction, Deduct  | -18.63                    |                         |
| For Flush Mount, Deduct   | -9.32                     |                         |
| For Stainless Steel, Add  | 465.75                    |                         |
| 23 37 13 13-0039 EA 12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 302.12                    | 24.54                   |
| For Steel Construction, Deduct  | -20.69                    |                         |
| For Flush Mount, Deduct   | -10.35                    |                         |
| For Stainless Steel, Add  | 517.28                    |                         |
| 23 37 13 13-0040 EA 14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 431.51                    | 27.61                   |
| For Steel Construction, Deduct  | -32.11                    |                         |
| For Flush Mount, Deduct   | -16.05                    |                         |
| For Stainless Steel, Add  | 802.65                    |                         |
| 23 37 13 13-0041 EA 16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 354.56                    | 29.15                   |
| For Steel Construction, Deduct  | -34.31                    |                         |
| For Flush Mount, Deduct   | -17.15                    |                         |
| For Stainless Steel, Add  | 857.65                    |                         |
| 23 37 13 13-0042 EA 18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 485.11                    | 30.68                   |
| For Steel Construction, Deduct  | -36.51                    |                         |
| For Flush Mount, Deduct   | -18.25                    |                         |
| For Stainless Steel, Add  | 912.65                    |                         |
| 23 37 13 13-0043 EA 20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 559.54                    | 32.21                   |
| For Steel Construction, Deduct  | -43.40                    |                         |
| For Flush Mount, Deduct   | -21.70                    |                         |
| For Stainless Steel, Add  | 1,085.08                  |                         |
| 23 37 13 13-0044 EA 24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 631.15                    | 35.28                   |
| For Steel Construction, Deduct  | -49.31                    |                         |
| For Flush Mount, Deduct   | -24.65                    |                         |
| For Stainless Steel, Add  | 1,232.73                  |                         |
| 23 37 13 13-0045 EA 28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 759.71                    | 36.82                   |
| For Steel Construction, Deduct  | -61.44                    |                         |
| For Flush Mount, Deduct   | -30.72                    |                         |
| For Stainless Steel, Add  | 1,535.95                  |                         |
| 23 37 13 13-0046 EA 32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 911.97                    | 41.41                   |
| For Steel Construction, Deduct  | -74.95                    |                         |
| For Flush Mount, Deduct   | -37.48                    |                         |
| For Stainless Steel, Add  | 1,873.85                  |                         |
| 23 37 13 13-0047 EA 36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction .....                     | 1,008.53                  | 86.37                   |
| For Steel Construction, Deduct  | -2,089.90                 |                         |
| For Stainless Steel, Add  | 2,089.90                  |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 37 13 13-0048 |     |     | <b>Linear Type Ceiling Diffusers With 2-Way Air Deflection</b> (23 37 13 13-0001)                            |                        |                      |
| 23 37 13 13-0049 | LF  |     | 4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection.....                                | 182.07                 | 23.01                |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 225.08                 |                      |
| 23 37 13 13-0050 | LF  |     | 6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection.....                         | 194.30                 | 23.01                |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 255.65                 |                      |
| 23 37 13 13-0051 | LF  |     | 9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection.....                         | 209.37                 | 23.01                |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 293.33                 |                      |
| 23 37 13 13-0052 | LF  |     | 12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection.....                       | 224.03                 | 23.01                |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 329.98                 |                      |
| 23 37 13 13-0053 |     |     | <b>Wall And Floor Diffusers</b> (23 37 13 13)  |                        |                      |
| 23 37 13 13-0054 |     |     | <b>Slot Type Linear Diffusers</b> (23 37 13 13-0053)   |                        |                      |
|                  |     |     | Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.                               |                        |                      |
| 23 37 13 13-0055 | LF  |     | 1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling.....   | 61.95                  | 7.67                 |
|                  |     |     | <i>For 3/4" Border, Add</i>  | 7.43                   |                      |
|                  |     |     | <i>For Floor Mounted Diffusers, Add</i>  | 8.92                   |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 38.65                  |                      |
| 23 37 13 13-0056 | LF  |     | 2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....  | 74.90                  | 9.20                 |
|                  |     |     | <i>For 3/4" Border, Add</i>  | 9.91                   |                      |
|                  |     |     | <i>For Floor Mounted Diffusers, Add</i>  | 11.89                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 51.53                  |                      |
| 23 37 13 13-0057 | LF  |     | 3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....  | 102.34                 | 10.74                |
|                  |     |     | <i>For 3/4" Border, Add</i>  | 15.61                  |                      |
|                  |     |     | <i>For Floor Mounted Diffusers, Add</i>  | 18.73                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 81.16                  |                      |
| 23 37 13 13-0058 | LF  |     | 4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....  | 133.64                 | 10.74                |
|                  |     |     | <i>For 3/4" Border, Add</i>  | 22.30                  |                      |
|                  |     |     | <i>For Floor Mounted Diffusers, Add</i>  | 26.75                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 115.93                 |                      |
| 23 37 13 13-0059 | LF  |     | 5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....  | 166.60                 | 12.28                |
|                  |     |     | <i>For 3/4" Border, Add</i>  | 28.99                  |                      |
|                  |     |     | <i>For Floor Mounted Diffusers, Add</i>  | 34.78                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 150.72                 |                      |
| 23 37 13 13-0060 | LF  |     | 6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....  | 195.01                 | 15.34                |
|                  |     |     | <i>For 3/4" Border, Add</i>  | 34.19                  |                      |
|                  |     |     | <i>For Floor Mounted Diffusers, Add</i>  | 41.03                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 177.78                 |                      |
| 23 37 13 13-0061 |     |     | <b>Linear Bar Grilles And Registers</b> (23 37 13 13-0053)   |                        |                      |
|                  |     |     | Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction. |                        |                      |
| 23 37 13 13-0062 | LF  |     | 2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....                            | 178.95                 | 9.20                 |
|                  |     |     | <i>For Floor Mount, Add</i>  | 14.37                  |                      |
|                  |     |     | <i>For Opposed Blade Damper, Add</i>   | 28.74                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 186.80                 |                      |
| 23 37 13 13-0063 | LF  |     | 3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....                           | 213.32                 | 10.74                |
|                  |     |     | <i>For Floor Mount, Add</i>  | 17.34                  |                      |
|                  |     |     | <i>For Opposed Blade Damper, Add</i>   | 34.68                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 225.43                 |                      |
| 23 37 13 13-0064 | LF  |     | 4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....                           | 232.74                 | 10.74                |
|                  |     |     | <i>For Floor Mount, Add</i>  | 18.83                  |                      |
|                  |     |     | <i>For Opposed Blade Damper, Add</i>   | 37.66                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 244.76                 |                      |
| 23 37 13 13-0065 | LF  |     | 6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....                          | 286.17                 | 15.34                |
|                  |     |     | <i>For Floor Mount, Add</i>  | 22.79                  |                      |
|                  |     |     | <i>For Opposed Blade Damper, Add</i>   | 45.58                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 296.28                 |                      |
| 23 37 13 13-0066 | LF  |     | 9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....                          | 395.32                 | 19.94                |
|                  |     |     | <i>For Floor Mount, Add</i>  | 31.71                  |                      |
|                  |     |     | <i>For Opposed Blade Damper, Add</i>   | 63.42                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 412.23                 |                      |
| 23 37 13 13-0067 | LF  |     | 12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....                         | 456.90                 | 23.01                |
|                  |     |     | <i>For Floor Mount, Add</i>  | 36.17                  |                      |
|                  |     |     | <i>For Opposed Blade Damper, Add</i>   | 72.34                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 470.20                 |                      |
| 23 37 13 13-0068 |     |     | <b>Return/Exhaust Registers And Grilles</b> (23 37 13 13)  |                        |                      |
| 23 37 13 13-0069 |     |     | <b>Return/Exhaust Registers With Frame</b> (23 37 13 13-0068)  |                        |                      |
|                  |     |     | Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.               |                        |                      |
| 23 37 13 13-0070 | EA  |     | 8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....         | 127.38                 | 12.28                |
|                  |     |     | <i>For Steel Construction, Deduct</i>  | -15.95                 |                      |
|                  |     |     | <i>For Grilles (No Damper), Deduct</i>   | -31.91                 |                      |
|                  |     |     | <i>For Removable Core, Add</i>   | 35.00                  |                      |
|                  |     |     | <i>For Cube Core With Frame, Add</i>   | 7.98                   |                      |
|                  |     |     | <i>For Cube Core Lay In, Add</i>   | 15.95                  |                      |
|                  |     |     | <i>For Stainless Steel, Add</i>  | 199.43                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 37 13 13-0071 EA 8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....   | 144.72                    | 12.28                   |
| <i>For Steel Construction, Deduct</i>  | -19.42                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -38.84                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 9.71                      |                         |
| <i>For Cube Core Lay In, Add</i>   | 19.42                     |                         |
| <i>For Stainless Steel, Add</i>  | 242.78                    |                         |
| 23 37 13 13-0072 EA 10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....  | 162.75                    | 13.80                   |
| <i>For Steel Construction, Deduct</i>  | -21.50                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -43.01                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 10.75                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 21.50                     |                         |
| <i>For Stainless Steel, Add</i>  | 268.80                    |                         |
| 23 37 13 13-0073 EA 10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 171.74                    | 15.34                   |
| <i>For Steel Construction, Deduct</i>  | -21.50                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -43.01                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 10.75                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 21.50                     |                         |
| <i>For Stainless Steel, Add</i>  | 268.80                    |                         |
| 23 37 13 13-0074 EA 12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....  | 164.80                    | 15.34                   |
| <i>For Steel Construction, Deduct</i>  | -20.12                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -40.23                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 10.06                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 20.12                     |                         |
| <i>For Stainless Steel, Add</i>  | 251.45                    |                         |
| 23 37 13 13-0075 EA 12" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 210.69                    | 19.94                   |
| <i>For Steel Construction, Deduct</i>  | -26.36                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -52.72                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 13.18                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 26.36                     |                         |
| <i>For Stainless Steel, Add</i>  | 329.48                    |                         |
| 23 37 13 13-0076 EA 16" x 16" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 252.57                    | 23.01                   |
| <i>For Steel Construction, Deduct</i>  | -31.47                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -62.94                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 15.74                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 31.47                     |                         |
| <i>For Stainless Steel, Add</i>  | 393.40                    |                         |
| 23 37 13 13-0077 EA 18" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 308.13                    | 27.61                   |
| <i>For Steel Construction, Deduct</i>  | -39.54                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -79.07                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 19.77                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 39.54                     |                         |
| <i>For Stainless Steel, Add</i>  | 494.20                    |                         |
| 23 37 13 13-0078 EA 20" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 359.45                    | 30.68                   |
| <i>For Steel Construction, Deduct</i>  | -47.88                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -95.76                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 23.94                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 47.88                     |                         |
| <i>For Stainless Steel, Add</i>  | 598.50                    |                         |
| 23 37 13 13-0079 EA 24" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 325.74                    | 30.68                   |
| <i>For Steel Construction, Deduct</i>  | -40.05                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -80.09                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 20.02                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 40.05                     |                         |
| <i>For Stainless Steel, Add</i>  | 500.58                    |                         |
| 23 37 13 13-0080 EA 24" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 368.28                    | 30.68                   |
| <i>For Steel Construction, Deduct</i>  | -48.55                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -97.11                    |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 24.28                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 48.55                     |                         |
| <i>For Stainless Steel, Add</i>  | 606.93                    |                         |
| 23 37 13 13-0081 EA 24" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 389.68                    | 35.28                   |
| <i>For Steel Construction, Deduct</i>  | -50.32                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -100.65                   |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 25.16                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 50.32                     |                         |
| <i>For Stainless Steel, Add</i>  | 629.05                    |                         |
| 23 37 13 13-0082 EA 30" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 412.75                    | 36.82                   |
| <i>For Steel Construction, Deduct</i>  | -53.48                    |                         |
| <i>For Grilles (No Damper), Deduct</i>   | -106.97                   |                         |
| <i>For Removable Core, Add</i>   | 35.00                     |                         |
| <i>For Cube Core With Frame, Add</i>   | 26.74                     |                         |
| <i>For Cube Core Lay In, Add</i>   | 53.48                     |                         |
| <i>For Stainless Steel, Add</i>  | 668.55                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 37 13 13-0083 EA 30" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 474.56                    | 41.41                   |
| For Steel Construction, Deduct   | -62.43                    |                         |
| For Grilles (No Damper), Deduct  | -124.85                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 31.21                     |                         |
| For Cube Core Lay In, Add  | 62.43                     |                         |
| For Stainless Steel, Add   | 780.33                    |                         |
| 23 37 13 13-0084 EA 30" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 535.02                    | 49.09                   |
| For Steel Construction, Deduct   | -67.56                    |                         |
| For Grilles (No Damper), Deduct  | -135.12                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 33.78                     |                         |
| For Cube Core Lay In, Add  | 67.56                     |                         |
| For Stainless Steel, Add   | 844.48                    |                         |
| 23 37 13 13-0085 EA 30" x 30" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 681.87                    | 49.09                   |
| For Steel Construction, Deduct   | -96.93                    |                         |
| For Grilles (No Damper), Deduct  | -193.86                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 48.46                     |                         |
| For Cube Core Lay In, Add  | 96.93                     |                         |
| For Stainless Steel, Add   | 1,211.60                  |                         |
| 23 37 13 13-0086 EA 36" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 577.31                    | 53.69                   |
| For Steel Construction, Deduct   | -72.98                    |                         |
| For Grilles (No Damper), Deduct  | -145.96                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 36.49                     |                         |
| For Cube Core Lay In, Add  | 72.98                     |                         |
| For Stainless Steel, Add   | 912.28                    |                         |
| 23 37 13 13-0087 EA 36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 563.35                    | 52.15                   |
| For Steel Construction, Deduct   | -70.19                    |                         |
| For Grilles (No Damper), Deduct  | -140.38                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 35.10                     |                         |
| For Cube Core Lay In, Add  | 70.19                     |                         |
| For Stainless Steel, Add   | 877.38                    |                         |
| 23 37 13 13-0088 EA 36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 638.82                    | 58.30                   |
| For Steel Construction, Deduct   | -81.74                    |                         |
| For Grilles (No Damper), Deduct  | -163.49                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 40.87                     |                         |
| For Cube Core Lay In, Add  | 81.74                     |                         |
| For Stainless Steel, Add   | 1,021.80                  |                         |
| 23 37 13 13-0089 EA 36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 852.55                    | 62.89                   |
| For Steel Construction, Deduct   | -120.31                   |                         |
| For Grilles (No Damper), Deduct  | -240.61                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 60.15                     |                         |
| For Cube Core Lay In, Add  | 120.31                    |                         |
| For Stainless Steel, Add   | 1,503.83                  |                         |
| 23 37 13 13-0090 EA 24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 384.96                    | 35.43                   |
| For Steel Construction, Deduct   | -48.68                    |                         |
| For Grilles (No Damper), Deduct  | -97.35                    |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 24.34                     |                         |
| For Cube Core Lay In, Add  | 48.68                     |                         |
| For Stainless Steel, Add   | 608.45                    |                         |
| 23 37 13 13-0091 EA 32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 656.98                    | 53.10                   |
| For Steel Construction, Deduct   | -88.92                    |                         |
| For Grilles (No Damper), Deduct  | -177.83                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 44.46                     |                         |
| For Cube Core Lay In, Add  | 88.92                     |                         |
| For Stainless Steel, Add   | 1,111.45                  |                         |
| 23 37 13 13-0092 EA 48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling..... | 762.08                    | 62.89                   |
| For Steel Construction, Deduct   | -102.03                   |                         |
| For Grilles (No Damper), Deduct  | -204.06                   |                         |
| For Removable Core, Add  | 35.00                     |                         |
| For Cube Core With Frame, Add  | 51.02                     |                         |
| For Cube Core Lay In, Add  | 102.03                    |                         |
| For Stainless Steel, Add   | 1,275.38                  |                         |
| <b>23 37 13 13-0093 Return/Exhaust Registers Removable-Reversible (23 37 13 13-0068)</b>                                   |                           |                         |
| Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.                   |                           |                         |
| 23 37 13 13-0094 EA 8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....  | 118.36                    | 12.28                   |
| For Steel Construction, Deduct   | -7.08                     |                         |
| For Flat Frame, Deduct   | -0.71                     |                         |
| For Grilles (No Damper), Deduct  | -14.15                    |                         |
| For Stainless Steel, Add   | 176.88                    |                         |
| 23 37 13 13-0095 EA 8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....  | 118.36                    | 12.28                   |
| For Steel Construction, Deduct   | -7.08                     |                         |
| For Flat Frame, Deduct   | -0.71                     |                         |
| For Grilles (No Damper), Deduct  | -14.15                    |                         |
| For Stainless Steel, Add   | 176.88                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 37 13 13-0096 EA 10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....  | 144.71                    | 13.80                   |
| <i>For Steel Construction, Deduct</i>   | -8.95                     |                         |
| <i>For Flat Frame, Deduct</i>   | -0.89                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -17.90                    |                         |
| <i>For Stainless Steel, Add</i>   | 223.70                    |                         |
| 23 37 13 13-0097 EA 10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 166.19                    | 16.87                   |
| <i>For Steel Construction, Deduct</i>   | -10.20                    |                         |
| <i>For Flat Frame, Deduct</i>   | -1.02                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -20.39                    |                         |
| <i>For Stainless Steel, Add</i>   | 254.93                    |                         |
| 23 37 13 13-0098 EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....  | 164.11                    | 15.34                   |
| <i>For Steel Construction, Deduct</i>   | -9.99                     |                         |
| <i>For Flat Frame, Deduct</i>   | -1.00                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -19.98                    |                         |
| <i>For Stainless Steel, Add</i>   | 249.73                    |                         |
| 23 37 13 13-0099 EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 212.08                    | 19.94                   |
| <i>For Steel Construction, Deduct</i>   | -13.32                    |                         |
| <i>For Flat Frame, Deduct</i>   | -1.33                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -26.64                    |                         |
| <i>For Stainless Steel, Add</i>   | 332.95                    |                         |
| 23 37 13 13-0100 EA 16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 335.91                    | 24.54                   |
| <i>For Steel Construction, Deduct</i>   | -24.07                    |                         |
| <i>For Flat Frame, Deduct</i>   | -2.41                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -48.14                    |                         |
| <i>For Stainless Steel, Add</i>   | 601.75                    |                         |
| 23 37 13 13-0101 EA 18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 403.87                    | 27.61                   |
| <i>For Steel Construction, Deduct</i>   | -29.34                    |                         |
| <i>For Flat Frame, Deduct</i>   | -2.93                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -58.68                    |                         |
| <i>For Stainless Steel, Add</i>   | 733.55                    |                         |
| 23 37 13 13-0102 EA 20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 455.08                    | 30.68                   |
| <i>For Steel Construction, Deduct</i>   | -33.50                    |                         |
| <i>For Flat Frame, Deduct</i>   | -3.35                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -67.01                    |                         |
| <i>For Stainless Steel, Add</i>   | 837.58                    |                         |
| 23 37 13 13-0103 EA 24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 383.55                    | 30.68                   |
| <i>For Steel Construction, Deduct</i>   | -25.80                    |                         |
| <i>For Flat Frame, Deduct</i>   | -2.58                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -51.61                    |                         |
| <i>For Stainless Steel, Add</i>   | 645.10                    |                         |
| 23 37 13 13-0104 EA 24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 508.41                    | 32.21                   |
| <i>For Steel Construction, Deduct</i>   | -38.29                    |                         |
| <i>For Flat Frame, Deduct</i>   | -3.83                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -76.58                    |                         |
| <i>For Stainless Steel, Add</i>   | 957.25                    |                         |
| 23 37 13 13-0105 EA 24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 591.71                    | 35.28                   |
| <i>For Steel Construction, Deduct</i>   | -45.37                    |                         |
| <i>For Flat Frame, Deduct</i>   | -4.54                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -90.73                    |                         |
| <i>For Stainless Steel, Add</i>   | 1,134.13                  |                         |
| 23 37 13 13-0106 EA 30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 461.64                    | 36.82                   |
| <i>For Steel Construction, Deduct</i>   | -31.63                    |                         |
| <i>For Flat Frame, Deduct</i>   | -3.16                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -63.26                    |                         |
| <i>For Stainless Steel, Add</i>   | 790.78                    |                         |
| 23 37 13 13-0107 EA 30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 628.56                    | 41.41                   |
| <i>For Steel Construction, Deduct</i>   | -46.61                    |                         |
| <i>For Flat Frame, Deduct</i>   | -4.66                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -93.23                    |                         |
| <i>For Stainless Steel, Add</i>   | 1,165.33                  |                         |
| 23 37 13 13-0108 EA 30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 757.01                    | 49.09                   |
| <i>For Steel Construction, Deduct</i>   | -55.98                    |                         |
| <i>For Flat Frame, Deduct</i>   | -5.60                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -111.96                   |                         |
| <i>For Stainless Steel, Add</i>   | 1,399.45                  |                         |
| 23 37 13 13-0109 EA 30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 862.10                    | 49.09                   |
| <i>For Steel Construction, Deduct</i>   | -66.49                    |                         |
| <i>For Flat Frame, Deduct</i>   | -6.65                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -132.97                   |                         |
| <i>For Stainless Steel, Add</i>   | 1,662.18                  |                         |
| 23 37 13 13-0110 EA 36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 601.54                    | 52.15                   |
| <i>For Steel Construction, Deduct</i>   | -38.91                    |                         |
| <i>For Flat Frame, Deduct</i>   | -3.89                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -77.83                    |                         |
| <i>For Stainless Steel, Add</i>   | 972.85                    |                         |
| 23 37 13 13-0111 EA 36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 801.31                    | 52.15                   |
| <i>For Steel Construction, Deduct</i>   | -58.89                    |                         |
| <i>For Flat Frame, Deduct</i>   | -5.89                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -117.78                   |                         |
| <i>For Stainless Steel, Add</i>   | 1,472.28                  |                         |
| 23 37 13 13-0112 EA 36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 925.14                    | 58.30                   |
| <i>For Steel Construction, Deduct</i>   | -69.50                    |                         |
| <i>For Flat Frame, Deduct</i>   | -6.95                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -139.01                   |                         |
| <i>For Stainless Steel, Add</i>   | 1,737.60                  |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 37 13 13-0113 EA 36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 1,078.20                  | 62.89                   |
| <i>For Steel Construction, Deduct</i>   | -82.72                    |                         |
| <i>For Flat Frame, Deduct</i>   | -8.27                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -165.44                   |                         |
| <i>For Stainless Steel, Add</i>   | 2,067.95                  |                         |
| 23 37 13 13-0114 EA 36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling ..... | 1,136.47                  | 62.89                   |
| <i>For Steel Construction, Deduct</i>   | -88.55                    |                         |
| <i>For Flat Frame, Deduct</i>   | -8.85                     |                         |
| <i>For Grilles (No Damper), Deduct</i>  | -177.09                   |                         |
| <i>For Stainless Steel, Add</i>   | 2,213.63                  |                         |
| <b>23 37 13 13-0115 Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles (23 37 13 13-0068)</b>                         |                           |                         |
| 23 37 13 13-0116 EA 6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                    | 68.32                     | 14.99                   |
| 23 37 13 13-0117 EA 8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                    | 68.32                     | 14.99                   |
| 23 37 13 13-0118 EA 8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                    | 73.56                     | 14.99                   |
| 23 37 13 13-0119 EA 8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                    | 75.66                     | 14.99                   |
| 23 37 13 13-0120 EA 10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 73.56                     | 14.99                   |
| 23 37 13 13-0121 EA 10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 75.66                     | 14.99                   |
| 23 37 13 13-0122 EA 10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 91.89                     | 19.65                   |
| 23 37 13 13-0123 EA 10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 93.99                     | 19.65                   |
| 23 37 13 13-0124 EA 12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 89.80                     | 19.65                   |
| 23 37 13 13-0125 EA 12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 93.99                     | 19.65                   |
| 23 37 13 13-0126 EA 12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 96.09                     | 19.65                   |
| 23 37 13 13-0127 EA 12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 98.18                     | 19.65                   |
| 23 37 13 13-0128 EA 14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 95.04                     | 19.65                   |
| 23 37 13 13-0129 EA 14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 99.23                     | 19.65                   |
| 23 37 13 13-0130 EA 14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 101.33                    | 19.65                   |
| 23 37 13 13-0131 EA 14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 110.76                    | 19.65                   |
| 23 37 13 13-0132 EA 16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 99.23                     | 19.65                   |
| 23 37 13 13-0133 EA 16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 106.57                    | 19.65                   |
| 23 37 13 13-0134 EA 16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 110.76                    | 19.65                   |
| 23 37 13 13-0135 EA 16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 144.28                    | 28.98                   |
| 23 37 13 13-0136 EA 16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 146.38                    | 28.98                   |
| 23 37 13 13-0137 EA 18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 142.18                    | 28.98                   |
| 23 37 13 13-0138 EA 18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 173.09                    | 33.66                   |
| 23 37 13 13-0139 EA 20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 140.09                    | 28.98                   |
| 23 37 13 13-0140 EA 20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 183.58                    | 33.66                   |
| 23 37 13 13-0141 EA 22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 97.13                     | 19.65                   |
| 23 37 13 13-0142 EA 22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 142.18                    | 28.98                   |
| 23 37 13 13-0143 EA 22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 206.10                    | 38.33                   |
| 23 37 13 13-0144 EA 24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 140.09                    | 28.98                   |
| 23 37 13 13-0145 EA 24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 144.28                    | 28.98                   |
| 23 37 13 13-0146 EA 24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 166.81                    | 33.66                   |
| <i>For Lay-In Installation, Deduct</i>  | -71.10                    |                         |
| 23 37 13 13-0147 EA 24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 173.09                    | 33.66                   |
| 23 37 13 13-0148 EA 24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 193.52                    | 38.33                   |
| 23 37 13 13-0149 EA 24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 199.81                    | 38.33                   |
| 23 37 13 13-0150 EA 24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 207.15                    | 38.33                   |
| 23 37 13 13-0151 EA 24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 220.78                    | 38.33                   |
| <i>For Lay-In Installation, Deduct</i>  | -81.40                    |                         |
| 23 37 13 13-0152 EA 30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                   | 169.95                    | 33.66                   |
| 23 37 13 13-0153 EA 48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 268.77                    | 42.00                   |
| 23 37 13 13-0154 EA 48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....                                  | 449.04                    | 51.33                   |
| <i>For Lay-In Installation, Deduct</i>  | -117.14                   |                         |
| <b>23 37 13 13-0155 Supply Registers and Grilles (23 37 13 13)</b>  |                           |                         |
| <b>23 37 13 13-0156 Adjustable Curved Blade Register (23 37 13 13-0155)</b>   |                           |                         |
| Note: Ceiling mount aluminum construction four way pattern flush frame.   |                           |                         |
| 23 37 13 13-0157 EA 6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....   | 108.17                    | 12.28                   |
| <i>For Steel Construction, Deduct</i>   | -9.10                     |                         |
| <i>For Lay In Frame, Deduct</i>   | -15.16                    |                         |
| <i>For Three Way Pattern, Deduct</i>  | -6.06                     |                         |
| <i>For Two Way Pattern, Deduct</i>  | -4.85                     |                         |
| <i>For One Way Pattern, Deduct</i>  | -4.85                     |                         |
| <i>For Grille (No Damper), Deduct</i>   | -9.10                     |                         |
| <i>For Stainless Steel, Add</i>   | 151.60                    |                         |
| 23 37 13 13-0158 EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....   | 111.74                    | 12.28                   |
| <i>For Steel Construction, Deduct</i>   | -9.63                     |                         |
| <i>For Lay In Frame, Deduct</i>   | -16.05                    |                         |
| <i>For Three Way Pattern, Deduct</i>  | -6.42                     |                         |
| <i>For Two Way Pattern, Deduct</i>  | -5.14                     |                         |
| <i>For One Way Pattern, Deduct</i>  | -5.14                     |                         |
| <i>For Grille (No Damper), Deduct</i>   | -9.63                     |                         |
| <i>For Stainless Steel, Add</i>   | 160.53                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 37 13 13-0159 EA 12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....  | 125.01                    | 16.87                   |
| For Steel Construction, Deduct  | -9.10                     |                         |
| For Lay In Frame, Deduct  | -15.16                    |                         |
| For Three Way Pattern, Deduct   | -6.06                     |                         |
| For Two Way Pattern, Deduct   | -4.85                     |                         |
| For One Way Pattern, Deduct   | -4.85                     |                         |
| For Grille (No Damper), Deduct  | -9.10                     |                         |
| For Stainless Steel, Add  | 151.60                    |                         |
| 23 37 13 13-0160 EA 10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 138.10                    | 15.34                   |
| For Steel Construction, Deduct  | -11.06                    |                         |
| For Lay In Frame, Deduct  | -18.43                    |                         |
| For Three Way Pattern, Deduct   | -7.37                     |                         |
| For Two Way Pattern, Deduct   | -5.90                     |                         |
| For One Way Pattern, Deduct   | -5.90                     |                         |
| For Grille (No Damper), Deduct  | -11.06                    |                         |
| For Stainless Steel, Add  | 184.33                    |                         |
| 23 37 13 13-0161 EA 12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 166.21                    | 19.94                   |
| For Steel Construction, Deduct  | -13.20                    |                         |
| For Lay In Frame, Deduct  | -22.00                    |                         |
| For Three Way Pattern, Deduct   | -8.80                     |                         |
| For Two Way Pattern, Deduct   | -7.04                     |                         |
| For One Way Pattern, Deduct   | -7.04                     |                         |
| For Grille (No Damper), Deduct  | -13.20                    |                         |
| For Stainless Steel, Add  | 219.98                    |                         |
| 23 37 13 13-0162 EA 14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 204.61                    | 23.01                   |
| For Steel Construction, Deduct  | -16.41                    |                         |
| For Lay In Frame, Deduct  | -27.35                    |                         |
| For Three Way Pattern, Deduct   | -10.94                    |                         |
| For Two Way Pattern, Deduct   | -8.75                     |                         |
| For One Way Pattern, Deduct   | -8.75                     |                         |
| For Grille (No Damper), Deduct  | -16.41                    |                         |
| For Stainless Steel, Add  | 273.50                    |                         |
| 23 37 13 13-0163 EA 16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 204.61                    | 23.01                   |
| For Steel Construction, Deduct  | -16.41                    |                         |
| For Lay In Frame, Deduct  | -27.35                    |                         |
| For Three Way Pattern, Deduct   | -10.94                    |                         |
| For Two Way Pattern, Deduct   | -8.75                     |                         |
| For One Way Pattern, Deduct   | -8.75                     |                         |
| For Grille (No Damper), Deduct  | -16.41                    |                         |
| For Stainless Steel, Add  | 273.50                    |                         |
| 23 37 13 13-0164 EA 18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 252.72                    | 30.68                   |
| For Steel Construction, Deduct  | -19.98                    |                         |
| For Lay In Frame, Deduct  | -33.30                    |                         |
| For Three Way Pattern, Deduct   | -13.32                    |                         |
| For Two Way Pattern, Deduct   | -10.65                    |                         |
| For One Way Pattern, Deduct   | -10.65                    |                         |
| For Grille (No Damper), Deduct  | -19.98                    |                         |
| For Stainless Steel, Add  | 332.95                    |                         |
| 23 37 13 13-0165 EA 24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 326.47                    | 32.21                   |
| For Steel Construction, Deduct  | -30.14                    |                         |
| For Lay In Frame, Deduct  | -50.24                    |                         |
| For Three Way Pattern, Deduct   | -20.10                    |                         |
| For Two Way Pattern, Deduct   | -16.08                    |                         |
| For One Way Pattern, Deduct   | -16.08                    |                         |
| For Grille (No Damper), Deduct  | -30.14                    |                         |
| For Stainless Steel, Add  | 502.40                    |                         |
| 23 37 13 13-0166 EA 30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... | 515.97                    | 65.04                   |
| For Steel Construction, Deduct  | -57.88                    |                         |
| For Lay In Frame, Deduct  | -96.47                    |                         |
| For Three Way Pattern, Deduct   | -38.59                    |                         |
| For Two Way Pattern, Deduct   | -30.87                    |                         |
| For One Way Pattern, Deduct   | -30.87                    |                         |
| For Grille (No Damper), Deduct  | -57.88                    |                         |
| For Stainless Steel, Add  | 964.68                    |                         |
| <b>23 37 13 13-0167 Removable-Reversible Core Registers</b> <small>(23 37 13 13-0155)</small>                               |                           |                         |
| Note: Double deflection radiused frame aluminum construction.   |                           |                         |
| 23 37 13 13-0168 EA 6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame .....            | 123.63                    | 12.28                   |
| For Steel Construction, Deduct  | -7.61                     |                         |
| For Flat Frame, Deduct  | -7.61                     |                         |
| For Grille (No Damper), Deduct  | -22.83                    |                         |
| For Stainless Steel, Add  | 190.25                    |                         |
| 23 37 13 13-0169 EA 8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame .....            | 154.55                    | 12.28                   |
| For Steel Construction, Deduct  | -10.70                    |                         |
| For Flat Frame, Deduct  | -10.70                    |                         |
| For Grille (No Damper), Deduct  | -32.11                    |                         |
| For Stainless Steel, Add  | 267.55                    |                         |
| 23 37 13 13-0170 EA 12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame .....           | 197.55                    | 16.87                   |
| For Steel Construction, Deduct  | -13.32                    |                         |
| For Flat Frame, Deduct  | -13.32                    |                         |
| For Grille (No Damper), Deduct  | -39.95                    |                         |
| For Stainless Steel, Add  | 332.95                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 23 37 13 13-0171        | EA  | 10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame | 199.93                    | 16.87                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -13.56                    |                         |
|                         |     | <i>For Flat Frame, Deduct</i>  | -13.56                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -40.67                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 338.90                    |                         |
| 23 37 13 13-0172        | EA  | 12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame | 254.21                    | 19.94                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -17.60                    |                         |
|                         |     | <i>For Flat Frame, Deduct</i>  | -17.60                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -52.80                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 439.98                    |                         |
| 23 37 13 13-0173        | EA  | 14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame | 359.19                    | 24.54                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -26.40                    |                         |
|                         |     | <i>For Flat Frame, Deduct</i>  | -26.40                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -79.19                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 659.95                    |                         |
| 23 37 13 13-0174        | EA  | 16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame | 402.00                    | 23.01                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -30.68                    |                         |
|                         |     | <i>For Flat Frame, Deduct</i>  | -30.68                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -92.04                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 766.98                    |                         |
| 23 37 13 13-0175        | EA  | 18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame | 485.79                    | 30.68                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -36.63                    |                         |
|                         |     | <i>For Flat Frame, Deduct</i>  | -36.63                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -109.88                   |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 915.63                    |                         |
| 23 37 13 13-0176        | EA  | 24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame | 608.29                    | 30.68                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -48.28                    |                         |
|                         |     | <i>For Flat Frame, Deduct</i>  | -48.28                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -144.83                   |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 1,206.95                  |                         |
| <b>23 37 13 13-0177</b> |     | <b>Adjustable Shutter Blade Registers</b> <small>(23 37 13 13-0155)</small>              |                           |                         |
|                         |     | Note: Double deflection flat frame aluminum construction.                                |                           |                         |
| 23 37 13 13-0178        | EA  | 6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame        | 186.26                    | 12.28                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -13.87                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -27.75                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -20.81                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 346.83                    |                         |
| 23 37 13 13-0179        | EA  | 8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame        | 214.01                    | 12.28                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -16.65                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -33.30                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -24.97                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 416.20                    |                         |
| 23 37 13 13-0180        | EA  | 12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame       | 230.85                    | 16.87                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -16.65                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -33.30                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -24.97                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 416.20                    |                         |
| 23 37 13 13-0181        | EA  | 10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame      | 238.77                    | 15.34                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -17.44                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -34.88                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -26.16                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 436.00                    |                         |
| 23 37 13 13-0182        | EA  | 12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame      | 292.26                    | 19.94                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -21.40                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -42.81                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -32.11                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 535.10                    |                         |
| 23 37 13 13-0183        | EA  | 14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame      | 388.53                    | 23.01                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -29.33                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -58.66                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -44.00                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 733.30                    |                         |
| 23 37 13 13-0184        | EA  | 16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame      | 455.91                    | 24.54                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -36.07                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -72.14                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -54.11                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 901.75                    |                         |
| 23 37 13 13-0185        | EA  | 18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame      | 563.48                    | 30.68                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -44.39                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -88.79                    |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -66.59                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 1,109.85                  |                         |
| 23 37 13 13-0186        | EA  | 24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame      | 771.60                    | 32.21                   |
|                         |     | <i>For Steel Construction, Deduct</i>  | -64.61                    |                         |
|                         |     | <i>For Single Deflection, Deduct</i>   | -129.22                   |                         |
|                         |     | <i>For Grille (No Damper), Deduct</i>  | -96.91                    |                         |
|                         |     | <i>For Stainless Steel, Add</i>  | 1,615.23                  |                         |
| <b>23 37 13 13-0187</b> |     | <b>Air Conditioning And Ventilation</b> <small>(23 37 13 13-0155)</small>                |                           |                         |
| 23 37 13 13-0188        | EA  | 10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction             | 115.16                    | 32.21                   |
|                         |     | <i>For Stainless Steel, Add</i>  | 126.98                    |                         |
| 23 37 13 13-0189        | EA  | 18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction             | 197.46                    | 47.94                   |
|                         |     | <i>For Stainless Steel, Add</i>  | 253.95                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 37 13 13-0190 EA 30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....<br><i>For Stainless Steel, Add</i> | 303.54<br>423.28          | 67.11                   |
| 23 37 13 13-0191 EA 48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....<br><i>For Stainless Steel, Add</i> | 742.80<br>1,396.78        | 92.04                   |
| <b>23 37 13 13-0192 Square Wall Return Air And Exhaust Grilles</b> (23 37 13 13-0155)<br>Note: Egg crate design aluminum construction.    |                           |                         |
| 23 37 13 13-0193 EA 8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....                                      | 107.32                    | 38.40                   |
| 23 37 13 13-0194 EA 12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....                                    | 116.72                    | 38.40                   |
| 23 37 13 13-0195 EA 18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....                                    | 173.89                    | 57.60                   |
| 23 37 13 13-0196 EA 24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....                                    | 220.85                    | 57.60                   |
| 23 37 13 13-0197 EA 28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....                                    | 364.91                    | 76.80                   |
| 23 37 13 13-0198 EA 36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....                                    | 648.62                    | 76.70                   |
| <b>23 37 13 13-0199 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles</b> (23 37 13 13-0155)<br>Note: Aluminum construction. |                           |                         |
| 23 37 13 13-0200 EA 12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....                      | 274.64                    | 27.64                   |
| 23 37 13 13-0201 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....                      | 310.31                    | 27.64                   |
| 23 37 13 13-0202 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....                      | 372.57                    | 30.72                   |
| 23 37 13 13-0203 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....                      | 435.96                    | 30.72                   |
| 23 37 13 13-0204 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....                     | 567.09                    | 96.00                   |
| <b>23 37 13 13-0205 Square Ceiling Return Air And Exhaust Grilles</b> (23 37 13 13-0155)<br>Note: Egg crate design, plastic construction. |                           |                         |
| 23 37 13 13-0206 EA 24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction .....                                  | 56.01                     | 18.38                   |
| 23 37 13 13-0207 EA 24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction .....                                  | 79.04                     | 18.53                   |
| <b>23 37 13 13-0208 Door Grilles Sight Proof Inverted Vee Cross Section</b> (23 37 13 13-0155)<br>Note: Painted steel louvers and frame.  |                           |                         |
| 23 37 13 13-0209 EA 12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....                                    | 155.55                    | 27.64                   |
| 23 37 13 13-0210 EA 12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....                                   | 199.33                    | 27.64                   |
| 23 37 13 13-0211 EA 18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....                                   | 242.93                    | 29.18                   |
| 23 37 13 13-0212 EA 24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....                                   | 326.16                    | 34.86                   |
| 23 37 13 13-0213 EA 24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....                                   | 363.77                    | 64.04                   |
| <b>23 37 13 13-0214 Stainless Steel Devices</b> (23 37 13 13-0155)  |                           |                         |
| <b>23 37 13 13-0215 304 Stainless Steel, Louvered Partition/Door Grilles</b> (23 37 13 13-0214)   |                           |                         |
| 23 37 13 13-0216 SF Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille .....   | 248.62                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 41.74                     |                         |
| 23 37 13 13-0217 SF >4 SF, 304 Stainless Steel, Louvered Partition/Door Grille .....  | 210.54                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 34.12                     |                         |
| <b>23 37 13 13-0218 304 Stainless Steel, Single Deflection Supply Grilles</b> (23 37 13 13-0214)  |                           |                         |
| 23 37 13 13-0219 SF Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille .....  | 189.44                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 29.90                     |                         |
| 23 37 13 13-0220 SF >4 SF, 304 Stainless Steel, Single Deflection Supply Grille .....   | 161.75                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 24.36                     |                         |
| <b>23 37 13 13-0221 304 Stainless Steel, Double Deflection Supply Grilles</b> (23 37 13 13-0214)  |                           |                         |
| 23 37 13 13-0222 SF Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille .....  | 275.09                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 47.03                     |                         |
| 23 37 13 13-0223 SF >4 SF, 304 Stainless Steel, Double Deflection Supply Grille .....   | 235.12                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 39.04                     |                         |
| <b>23 37 13 13-0224 304 Stainless Steel Return Grilles</b> (23 37 13 13-0214)   |                           |                         |
| 23 37 13 13-0225 SF Up To 4 SF, 304 Stainless Steel Return Grille .....   | 189.44                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 29.90                     |                         |
| 23 37 13 13-0226 SF >4 SF, 304 Stainless Steel Return Grille .....  | 161.75                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 24.36                     |                         |
| <b>23 37 13 13-0227 304 Stainless Steel, Louvered Supply/Return Grilles</b> (23 37 13 13-0214)  |                           |                         |
| 23 37 13 13-0228 SF Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille .....  | 189.44                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 29.90                     |                         |
| 23 37 13 13-0229 SF >4 SF, 304 Stainless Steel, Louvered Supply/Return Grille .....   | 161.75                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 24.36                     |                         |
| <b>23 37 13 13-0230 304 Stainless Steel, Perforated Return Grilles</b> (23 37 13 13-0214)   |                           |                         |
| 23 37 13 13-0231 SF Up To 4 SF, 304 Stainless Steel, Perforated Return Grille .....   | 189.44                    | 23.96                   |
| <i>For 316 Stainless Steel, Add</i>   | 29.90                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                           | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 23 37 13 13-0232 SF >4 SF, 304 Stainless Steel, Perforated Return Grille.....<br><i>For 316 Stainless Steel, Add</i>   | 154.14<br>22.84                                     | 23.96                   |
| <b>23 37 13 13-0233 304 Stainless Steel, Perforated Supply Grilles (23 37 13 13-0214)</b>  |   |                         |
| 23 37 13 13-0234 SF Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille.....<br><i>For 316 Stainless Steel, Add</i>  | 228.37<br>37.69                                     | 23.96                   |
| 23 37 13 13-0235 SF >4 SF, 304 Stainless Steel, Perforated Supply Grille.....<br><i>For 316 Stainless Steel, Add</i>   | 158.19<br>23.65                                     | 23.96                   |
| <b>23 37 13 13-0236 304 Stainless Steel, Door Grilles (23 37 13 13-0214)</b>   |   |                         |
| 23 37 13 13-0237 SF Up To 4 SF, 304 Stainless Steel, Door Grille.....<br><i>For 316 Stainless Steel, Add</i>   | 338.94<br>59.80                                     | 23.96                   |
| 23 37 13 13-0238 SF >4 SF, 304 Stainless Steel, Door Grille .....<br><i>For 316 Stainless Steel, Add</i>   | 283.58<br>48.73                                     | 23.96                   |
| <b>23 37 13 13-0239 304 Stainless Steel, Linear Bar Grilles (23 37 13 13-0214)</b>   |   |                         |
| 23 37 13 13-0240 SF Up To 4 SF, 304 Stainless Steel, Linear Bar Grille.....<br><i>For 316 Stainless Steel, Add</i>   | 431.86<br>78.38                                     | 23.96                   |
| 23 37 13 13-0241 SF >4 SF, 304 Stainless Steel, Linear Bar Grille.....<br><i>For 316 Stainless Steel, Add</i>  | 370.43<br>66.10                                     | 23.96                   |
| <b>23 37 13 13-0242 304 Stainless Steel, Hinged Filter Grilles (23 37 13 13-0214)</b>  |   |                         |
| 23 37 13 13-0243 SF Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille .....<br><i>For 316 Stainless Steel, Add</i>   | 318.70<br>55.75                                     | 23.96                   |
| 23 37 13 13-0244 SF >4 SF, 304 Stainless Steel, Hinged Filter Grille.....<br><i>For 316 Stainless Steel, Add</i>   | 221.81<br>36.37                                     | 23.96                   |
| <b>23 37 13 13-0245 304 Stainless Steel, Opposed Blade Dampers Grilles (23 37 13 13-0214)</b>  |   |                         |
| 23 37 13 13-0246 SF Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille .....<br><i>For 316 Stainless Steel, Add</i>   | 173.87<br>26.79                                     | 23.96                   |
| 23 37 13 13-0247 SF Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF.....<br><i>For 316 Stainless Steel, Add</i>  | 133.56<br>18.72                                     | 23.96                   |
| <b>23 37 13 13-0248 304 Stainless Steel, Plaster Frames Replacement (23 37 13 13-0214)</b>   |   |                         |
| Note: For frequent replacement.  |   |                         |
| 23 37 13 13-0249 SF To 4 SF, 304 Stainless Steel, Plaster Frames Replacement.....<br><i>For 316 Stainless Steel, Add</i>   | 136.49<br>19.31                                     | 23.96                   |
| 23 37 13 13-0250 SF >4 SF, 304 Stainless Steel, Plaster Frames Replacement.....<br><i>For 316 Stainless Steel, Add</i>   | 74.72<br>6.96                                       | 23.96                   |
| <b>23 37 13 13-0251 304 Stainless Steel, Modular Louvered Ceiling Diffusers (23 37 13 13-0214)</b>   |   |                         |
| 23 37 13 13-0252 SF Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser.....<br><i>For 316 Stainless Steel, Add</i>   | 314.03<br>54.82                                     | 23.96                   |
| 23 37 13 13-0253 SF >4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser .....<br><i>For 316 Stainless Steel, Add</i>   | 246.72<br>41.36                                     | 23.96                   |
| <b>23 37 13 13-0254 304 Stainless Steel, Latticed Supply/Return Grilles (23 37 13 13-0214)</b>   |   |                         |
| 23 37 13 13-0255 SF Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille .....<br><i>For 316 Stainless Steel, Add</i>  | 113.13<br>14.64                                     | 23.96                   |
| 23 37 13 13-0256 SF >4 SF, 304 Stainless Steel, Latticed Supply/Return Grille .....<br><i>For 316 Stainless Steel, Add</i>   | 113.13<br>14.64                                     | 23.96                   |
| <b>23 37 13 13-0257 Removal And Reinstallation Of Distribution Devices (23 37 13 13)</b>   |   |                         |
| Note: Includes storage and cleaning. Excludes ductwork.  |   |                         |
| 23 37 13 13-0258 EA Removal And Reinstallation Of Variable Air Volume Terminal Unit.....   | 287.63  |                         |
| 23 37 13 13-0259 EA Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit.....   | 317.24  |                         |
| 23 37 13 13-0260 EA Removal And Reinstallation Of Lay-in Diffuser/Register/Grille.....   | 47.54   |                         |
| 23 37 13 13-0261 EA Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille.....  | 64.40   |                         |
| <b>23 37 13 43 Security Registers and Grilles (23 37 13)</b>   |   |                         |
| <b>23 37 13 43-0001 Security Supply Or Return Grille (23 37 13 43)</b>   |   |                         |
| Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.  |   |                         |
| 23 37 13 43-0002 EA 8" x 4" Steel Security Grille.....<br><i>For Anchoring Tabs, Add</i><br><i>For Rear Operated Opposed Blade Damper, Add</i><br><i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i><br><i>For 1" x 1" Square Holes On Face, Add</i><br><i>For Stainless Steel, Add</i> | 292.80<br>24.67<br>90.96<br>0.35<br>61.68<br>320.74 | 23.04                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 37 13 43-0003 EA 8" x 6" Steel Security Grille .....                                    | 324.25                    | 23.80                   |
| For Anchoring Tabs, Add  | 27.66                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 101.58                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 69.16                     |                         |
| For Stainless Steel, Add   | 359.62                    |                         |
| 23 37 13 43-0004 EA 8" x 8" Steel Security Grille .....                                    | 371.51                    | 26.88                   |
| For Anchoring Tabs, Add  | 31.78                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 116.59                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 79.44                     |                         |
| For Stainless Steel, Add   | 413.08                    |                         |
| 23 37 13 43-0005 EA 10" x 4" Steel Security Grille .....                                   | 325.11                    | 26.10                   |
| For Anchoring Tabs, Add  | 27.29                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 100.73                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 68.22                     |                         |
| For Stainless Steel, Add   | 354.76                    |                         |
| 23 37 13 43-0006 EA 10" x 6" Steel Security Grille .....                                   | 346.87                    | 27.64                   |
| For Anchoring Tabs, Add  | 29.16                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 107.58                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 72.90                     |                         |
| For Stainless Steel, Add   | 379.05                    |                         |
| 23 37 13 43-0007 EA 10" x 8" Steel Security Grille .....                                   | 396.34                    | 29.94                   |
| For Anchoring Tabs, Add  | 33.64                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 123.74                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 84.11                     |                         |
| For Stainless Steel, Add   | 437.37                    |                         |
| 23 37 13 43-0008 EA 10" x 10" Steel Security Grille .....                                  | 442.06                    | 32.26                   |
| For Anchoring Tabs, Add  | 37.76                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 138.60                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 94.39                     |                         |
| For Stainless Steel, Add   | 490.83                    |                         |
| 23 37 13 43-0009 EA 12" x 4" Steel Security Grille .....                                   | 342.46                    | 29.18                   |
| For Anchoring Tabs, Add  | 28.41                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 105.27                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 71.03                     |                         |
| For Stainless Steel, Add   | 369.33                    |                         |
| 23 37 13 43-0010 EA 12" x 6" Steel Security Grille .....                                   | 382.25                    | 32.26                   |
| For Anchoring Tabs, Add  | 31.78                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 117.66                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 79.44                     |                         |
| For Stainless Steel, Add   | 413.08                    |                         |
| 23 37 13 43-0011 EA 12" x 8" Steel Security Grille .....                                   | 435.46                    | 34.56                   |
| For Anchoring Tabs, Add  | 36.64                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 135.13                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 91.59                     |                         |
| For Stainless Steel, Add   | 476.26                    |                         |
| 23 37 13 43-0012 EA 12" x 10" Steel Security Grille .....                                  | 473.71                    | 36.86                   |
| For Anchoring Tabs, Add  | 40.00                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 147.37                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 100.00                    |                         |
| For Stainless Steel, Add   | 519.99                    |                         |
| 23 37 13 43-0013 EA 12" x 12" Steel Security Grille .....                                  | 523.17                    | 39.16                   |
| For Anchoring Tabs, Add  | 44.49                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 163.53                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 111.21                    |                         |
| For Stainless Steel, Add   | 578.31                    |                         |
| 23 37 13 43-0014 EA 14" x 4" Steel Security Grille .....                                   | 365.77                    | 31.48                   |
| For Anchoring Tabs, Add  | 30.28                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 112.28                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 75.70                     |                         |
| For Stainless Steel, Add   | 393.64                    |                         |
| 23 37 13 43-0015 EA 14" x 6" Steel Security Grille .....                                   | 411.50                    | 33.78                   |
| For Anchoring Tabs, Add  | 34.39                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 127.13                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 85.98                     |                         |
| For Stainless Steel, Add   | 447.10                    |                         |
| 23 37 13 43-0016 EA 14" x 8" Steel Security Grille .....                                   | 458.76                    | 36.86                   |
| For Anchoring Tabs, Add  | 38.50                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 142.14                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 96.26                     |                         |
| For Stainless Steel, Add   | 500.55                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 37 13 43-0017 EA 14" x 10" Steel Security Grille .....                                  | 517.23                    | 39.94                   |
| For Anchoring Tabs, Add  | 43.74                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 161.07                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 109.34                    |                         |
| For Stainless Steel, Add   | 568.58                    |                         |
| 23 37 13 43-0018 EA 14" x 12" Steel Security Grille .....                                  | 569.77                    | 43.78                   |
| For Anchoring Tabs, Add  | 48.22                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 177.53                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 120.56                    |                         |
| For Stainless Steel, Add   | 626.90                    |                         |
| 23 37 13 43-0019 EA 14" x 14" Steel Security Grille .....                                  | 613.29                    | 46.84                   |
| For Anchoring Tabs, Add  | 51.96                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 191.23                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 129.90                    |                         |
| For Stainless Steel, Add   | 675.49                    |                         |
| 23 37 13 43-0020 EA 16" x 6" Steel Security Grille .....                                   | 440.07                    | 36.86                   |
| For Anchoring Tabs, Add  | 36.64                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 135.59                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 91.59                     |                         |
| For Stainless Steel, Add   | 476.26                    |                         |
| 23 37 13 43-0021 EA 16" x 8" Steel Security Grille .....                                   | 502.28                    | 39.94                   |
| For Anchoring Tabs, Add  | 42.24                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 155.83                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 105.61                    |                         |
| For Stainless Steel, Add   | 549.15                    |                         |
| 23 37 13 43-0022 EA 16" x 10" Steel Security Grille .....                                  | 542.06                    | 43.00                   |
| For Anchoring Tabs, Add  | 45.61                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 168.22                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 114.02                    |                         |
| For Stainless Steel, Add   | 592.88                    |                         |
| 23 37 13 43-0023 EA 16" x 12" Steel Security Grille .....                                  | 610.22                    | 45.30                   |
| For Anchoring Tabs, Add  | 51.96                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 190.92                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 129.90                    |                         |
| For Stainless Steel, Add   | 675.49                    |                         |
| 23 37 13 43-0024 EA 16" x 14" Steel Security Grille .....                                  | 646.27                    | 48.38                   |
| For Anchoring Tabs, Add  | 54.95                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 202.01                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 137.38                    |                         |
| For Stainless Steel, Add   | 714.38                    |                         |
| 23 37 13 43-0025 EA 16" x 16" Steel Security Grille .....                                  | 701.01                    | 51.46                   |
| For Anchoring Tabs, Add  | 59.81                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 219.63                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 149.53                    |                         |
| For Stainless Steel, Add   | 777.56                    |                         |
| 23 37 13 43-0026 EA 18" x 6" Steel Security Grille .....                                   | 467.97                    | 41.46                   |
| For Anchoring Tabs, Add  | 38.50                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 143.06                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 96.26                     |                         |
| For Stainless Steel, Add   | 500.55                    |                         |
| 23 37 13 43-0027 EA 18" x 8" Steel Security Grille .....                                   | 533.92                    | 44.54                   |
| For Anchoring Tabs, Add  | 44.49                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 164.60                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 111.21                    |                         |
| For Stainless Steel, Add   | 578.31                    |                         |
| 23 37 13 43-0028 EA 18" x 10" Steel Security Grille .....                                  | 584.93                    | 47.62                   |
| For Anchoring Tabs, Add  | 48.97                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 180.92                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 122.43                    |                         |
| For Stainless Steel, Add   | 636.62                    |                         |
| 23 37 13 43-0029 EA 18" x 12" Steel Security Grille .....                                  | 643.40                    | 50.68                   |
| For Anchoring Tabs, Add  | 54.20                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 199.85                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 135.51                    |                         |
| For Stainless Steel, Add   | 704.65                    |                         |
| 23 37 13 43-0030 EA 18" x 14" Steel Security Grille .....                                  | 686.73                    | 49.92                   |
| For Anchoring Tabs, Add  | 58.69                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 215.40                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 146.73                    |                         |
| For Stainless Steel, Add   | 762.97                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 37 13 43-0031 EA 18" x 16" Steel Security Grille .....                                  | 751.15                    | 52.22                   |
| For Anchoring Tabs, Add  | 64.67                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 236.79                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 161.68                    |                         |
| For Stainless Steel, Add   | 840.72                    |                         |
| 23 37 13 43-0032 EA 18" x 18" Steel Security Grille .....                                  | 804.35                    | 54.52                   |
| For Anchoring Tabs, Add  | 69.53                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 254.26                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 173.83                    |                         |
| For Stainless Steel, Add   | 903.90                    |                         |
| 23 37 13 43-0033 EA 20" x 6" Steel Security Grille .....                                   | 501.82                    | 45.30                   |
| For Anchoring Tabs, Add  | 41.12                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 152.98                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 102.80                    |                         |
| For Stainless Steel, Add   | 534.56                    |                         |
| 23 37 13 43-0034 EA 20" x 8" Steel Security Grille .....                                   | 567.11                    | 49.92                   |
| For Anchoring Tabs, Add  | 46.73                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 173.53                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 116.82                    |                         |
| For Stainless Steel, Add   | 607.46                    |                         |
| 23 37 13 43-0035 EA 20" x 10" Steel Security Grille .....                                  | 624.05                    | 52.22                   |
| For Anchoring Tabs, Add  | 51.96                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 192.31                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 129.90                    |                         |
| For Stainless Steel, Add   | 675.49                    |                         |
| 23 37 13 43-0036 EA 20" x 12" Steel Security Grille .....                                  | 686.27                    | 55.30                   |
| For Anchoring Tabs, Add  | 57.57                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 212.55                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 143.92                    |                         |
| For Stainless Steel, Add   | 748.40                    |                         |
| 23 37 13 43-0037 EA 20" x 14" Steel Security Grille .....                                  | 754.42                    | 57.60                   |
| For Anchoring Tabs, Add  | 63.92                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 235.25                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 159.81                    |                         |
| For Stainless Steel, Add   | 831.01                    |                         |
| 23 37 13 43-0038 EA 20" x 16" Steel Security Grille .....                                  | 815.10                    | 59.90                   |
| For Anchoring Tabs, Add  | 69.53                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 255.34                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 173.83                    |                         |
| For Stainless Steel, Add   | 903.90                    |                         |
| 23 37 13 43-0039 EA 20" x 18" Steel Security Grille .....                                  | 872.04                    | 62.20                   |
| For Anchoring Tabs, Add  | 74.76                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 274.11                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 186.91                    |                         |
| For Stainless Steel, Add   | 971.93                    |                         |
| 23 37 13 43-0040 EA 20" x 20" Steel Security Grille .....                                  | 940.20                    | 64.50                   |
| For Anchoring Tabs, Add  | 81.12                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 296.82                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 202.80                    |                         |
| For Stainless Steel, Add   | 1,054.55                  |                         |
| 23 37 13 43-0041 EA 24" x 6" Steel Security Grille .....                                   | 557.42                    | 50.68                   |
| For Anchoring Tabs, Add  | 45.61                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 169.76                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 114.02                    |                         |
| For Stainless Steel, Add   | 592.88                    |                         |
| 23 37 13 43-0042 EA 24" x 8" Steel Security Grille .....                                   | 630.18                    | 55.30                   |
| For Anchoring Tabs, Add  | 51.96                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 192.92                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 129.90                    |                         |
| For Stainless Steel, Add   | 675.49                    |                         |
| 23 37 13 43-0043 EA 24" x 10" Steel Security Grille .....                                  | 689.33                    | 56.82                   |
| For Anchoring Tabs, Add  | 57.57                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 212.86                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 143.92                    |                         |
| For Stainless Steel, Add   | 748.40                    |                         |
| 23 37 13 43-0044 EA 24" x 12" Steel Security Grille .....                                  | 772.63                    | 62.98                   |
| For Anchoring Tabs, Add  | 64.67                     |                         |
| For Rear Operated Opposed Blade Damper, Add  | 238.94                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add  | 161.68                    |                         |
| For Stainless Steel, Add   | 840.72                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 37 13 43-0045 EA 24" x 14" Steel Security Grille .....                                   | 833.32                    | 65.28                   |
| For Anchoring Tabs, Add   | 70.28                     |                         |
| For Rear Operated Opposed Blade Damper, Add   | 259.03                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add  | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add   | 175.70                    |                         |
| For Stainless Steel, Add  | 913.63                    |                         |
| 23 37 13 43-0046 EA 24" x 16" Steel Security Grille .....                                   | 908.94                    | 67.58                   |
| For Anchoring Tabs, Add   | 77.38                     |                         |
| For Rear Operated Opposed Blade Damper, Add   | 284.35                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add  | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add   | 193.45                    |                         |
| For Stainless Steel, Add  | 1,005.95                  |                         |
| 23 37 13 43-0047 EA 24" x 18" Steel Security Grille .....                                   | 995.78                    | 69.88                   |
| For Anchoring Tabs, Add   | 85.61                     |                         |
| For Rear Operated Opposed Blade Damper, Add   | 313.59                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add  | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add   | 214.01                    |                         |
| For Stainless Steel, Add  | 1,112.87                  |                         |
| 23 37 13 43-0048 EA 24" x 20" Steel Security Grille .....                                   | 1,056.47                  | 72.18                   |
| For Anchoring Tabs, Add   | 91.21                     |                         |
| For Rear Operated Opposed Blade Damper, Add   | 333.68                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add  | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add   | 228.03                    |                         |
| For Stainless Steel, Add  | 1,185.77                  |                         |
| 23 37 13 43-0049 EA 24" x 24" Steel Security Grille .....                                   | 1,185.30                  | 76.80                   |
| For Anchoring Tabs, Add   | 103.18                    |                         |
| For Rear Operated Opposed Blade Damper, Add   | 376.47                    |                         |
| For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add  | 0.35                      |                         |
| For 1" x 1" Square Holes On Face, Add   | 257.94                    |                         |
| For Stainless Steel, Add  | 1,341.28                  |                         |
| <b>23 37 13 43-0050 Security Registers And Grilles (23 37 13 43)</b>                        |                           |                         |
| <b>23 37 13 43-0051 Maximum Security Steel Supply / Return Registers (23 37 13 43-0050)</b> |                           |                         |
| Note: Includes damper as manufactured by Titus or equal.                                    |                           |                         |
| 23 37 13 43-0052 EA 6" x 6" Maximum Security Supply/ Return Register .....                  | 265.12                    | 17.18                   |
| 23 37 13 43-0053 EA 9" x 9" Maximum Security Supply/ Return Register .....                  | 382.60                    | 20.44                   |
| 23 37 13 43-0054 EA 12" x 6" Maximum Security Supply/ Return Register .....                 | 357.02                    | 21.46                   |
| 23 37 13 43-0055 EA 12" x 8" Maximum Security Supply/ Return Register .....                 | 412.58                    | 24.77                   |
| 23 37 13 43-0056 EA 10" x 10" Maximum Security Supply/ Return Register .....                | 386.91                    | 21.46                   |
| 23 37 13 43-0057 EA 14" x 12" Maximum Security Supply/ Return Register .....                | 536.51                    | 30.19                   |
| 23 37 13 43-0058 EA 14" x 14" Maximum Security Supply/ Return Register .....                | 607.02                    | 32.52                   |
| 23 37 13 43-0059 EA 18" x 18" Maximum Security Supply/ Return Register .....                | 812.10                    | 38.64                   |
| 23 37 13 43-0060 EA 24" x 24" Maximum Security Supply/ Return Registers .....               | 1,164.55                  | 49.39                   |
| <b>23 37 13 43-0061 Staff Security Steel Supply Registers (23 37 13 43-0050)</b>            |                           |                         |
| Note: Includes damper as manufactured by Titus or equal.                                    |                           |                         |
| 23 37 13 43-0062 EA 6" x 6" Staff Security Supply Register .....                            | 199.38                    | 17.18                   |
| 23 37 13 43-0063 EA 9" x 9" Staff Security Supply Register .....                            | 257.08                    | 20.44                   |
| 23 37 13 43-0064 EA 12" x 12" Staff Security Supply Register .....                          | 324.70                    | 27.89                   |
| 23 37 13 43-0065 EA 15" x 15" Staff Security Supply Register .....                          | 461.89                    | 32.20                   |
| 23 37 13 43-0066 EA 21" x 21" Staff Security Supply Register .....                          | 657.63                    | 42.95                   |
| 23 37 13 43-0067 EA 24" x 24" Staff Security Supply Register .....                          | 790.99                    | 49.39                   |
| <b>23 37 13 43-0068 Staff Security Steel Return Registers (23 37 13 43-0050)</b>            |                           |                         |
| Note: Includes damper as manufactured by Titus or equal.                                    |                           |                         |
| 23 37 13 43-0069 EA 10" x 4" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 254.48                    | 18.58                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0070 EA 6" x 6" 12 Gage Flat Steel Plate Staff Security Return Register .....   | 229.26                    | 17.18                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0071 EA 10" x 6" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 277.55                    | 19.35                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0072 EA 12" x 5" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 283.14                    | 20.90                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0073 EA 12" x 8" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 352.81                    | 24.77                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0074 EA 16" x 6" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 370.74                    | 24.77                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0075 EA 16" x 8" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 413.05                    | 25.70                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0076 EA 12" x 12" 12 Gage Flat Steel Plate Staff Security Return Register ..... | 414.36                    | 27.89                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0077 EA 30" x 6" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 540.80                    | 31.27                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0078 EA 14" x 12" 12 Gage Flat Steel Plate Staff Security Return Register ..... | 461.80                    | 30.19                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0079 EA 28" x 8" 12 Gage Flat Steel Plate Staff Security Return Register .....  | 577.14                    | 32.20                   |
| Note: Perforated with square holes.   |                           |                         |
| 23 37 13 43-0080 EA 18" x 12" 12 Gage Flat Steel Plate Staff Security Return Register ..... | 532.31                    | 31.89                   |
| Note: Perforated with square holes.   |                           |                         |



23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 23 37 23 | 13-0062 | EA  | 48" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 7,715.02               | 613.60               |
| 23 37 23 | 13-0063 | EA  | 54" x 54" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 6,551.31               | 528.47               |
| 23 37 23 | 13-0064 | EA  | 54" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 7,348.65               | 592.74               |
| 23 37 23 | 13-0065 | EA  | 54" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 7,973.69               | 643.21               |
| 23 37 23 | 13-0066 | EA  | 54" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 8,490.76               | 684.93               |
| 23 37 23 | 13-0067 | EA  | 60" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 8,165.37               | 657.94               |
| 23 37 23 | 13-0068 | EA  | 60" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 8,580.60               | 701.34               |
| 23 37 23 | 13-0069 | EA  | 60" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 9,200.22               | 755.19               |
| 23 37 23 | 13-0070 | EA  | 66" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 8,610.34               | 758.72               |
| 23 37 23 | 13-0071 | EA  | 66" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 10,068.81              | 887.27               |
| 23 37 23 | 13-0072 | EA  | 72" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FG)..... | 10,327.03              | 818.08               |

23 38 Ventilation Hoods (23 30)

23 38 13 Commercial-Kitchen Hoods (23 38)

23 38 13 13 Listed Commercial-Kitchen Hoods (23 38 13)

23 38 13 13-0001 Universal Ventless Hood (23 38 13 13)

|                  |    |  |           |        |
|------------------|----|--|-----------|--------|
| 23 38 13 13-0002 | EA | 109" Wide x 50" Deep x 102" High, Ventless Exhaust Hood With Stand, (Wells WVU-96) ..... | 52,728.89 | 650.32 |
|------------------|----|--|-----------|--------|

23 38 13 16 Standard Commercial-Kitchen Hoods (23 38 13)

23 38 13 16-0001 Commercial Kitchen Hood Ventilation System (23 38 13 16)

Note: Excludes fire suppression. See CSI section 21 24 16 00-0000 for fire suppression system, 23 31 13 23-0000 for duct, 23 34 16 00-0108 for exhaust and supply fans.

23 38 13 16-0002 Dry Filter Exhaust Hoods (23 38 13 16-0001)

Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 23 38 13 16-0003 | EA | 8' Long x 60" Deep Dry Filter Exhaust Hood.....      | 12,955.60 | 1,220.12 |
| 23 38 13 16-0004 | EA | 8'-6" Long x 60" Deep Dry Filter Exhaust Hood .....  | 13,506.10 | 1,296.37 |
| 23 38 13 16-0005 | EA | 9' Long x 60" Deep Dry Filter Exhaust Hood .....     | 15,036.86 | 1,372.63 |
| 23 38 13 16-0006 | EA | 9'-6" Long x 60" Deep Dry Filter Exhaust Hood .....  | 15,505.39 | 1,448.89 |
| 23 38 13 16-0007 | EA | 10' Long x 60" Deep Dry Filter Exhaust Hood.....     | 16,070.00 | 1,525.15 |
| 23 38 13 16-0008 | EA | 10'-6" Long x 60" Deep Dry Filter Exhaust Hood ..... | 16,664.84 | 1,601.40 |
| 23 38 13 16-0009 | EA | 11' Long x 60" Deep Dry Filter Exhaust Hood .....    | 17,230.33 | 1,677.66 |
| 23 38 13 16-0010 | EA | 11'-6" Long x 60" Deep Dry Filter Exhaust Hood ..... | 17,812.41 | 1,753.91 |
| 23 38 13 16-0011 | EA | 12' Long x 60" Deep Dry Filter Exhaust Hood.....     | 18,456.68 | 1,830.18 |
| 23 38 13 16-0012 | EA | 12'-6" Long x 60" Deep Dry Filter Exhaust Hood ..... | 19,018.36 | 1,906.44 |
| 23 38 13 16-0013 | EA | 13' Long x 60" Deep Dry Filter Exhaust Hood .....    | 19,488.37 | 1,982.69 |
| 23 38 13 16-0014 | EA | 13'-6" Long x 60" Deep Dry Filter Exhaust Hood ..... | 20,262.01 | 2,058.95 |
| 23 38 13 16-0015 | EA | 14' Long x 60" Deep Dry Filter Exhaust Hood.....     | 22,610.48 | 2,135.20 |
| 23 38 13 16-0016 | EA | 14'-6" Long x 60" Deep Dry Filter Exhaust Hood ..... | 23,227.49 | 2,211.47 |
| 23 38 13 16-0017 | EA | 15' Long x 60" Deep Dry Filter Exhaust Hood .....    | 24,053.31 | 2,287.72 |
| 23 38 13 16-0018 | EA | 15'-6" Long x 60" Deep Dry Filter Exhaust Hood ..... | 24,683.00 | 2,363.98 |
| 23 38 13 16-0019 | EA | 16' Long x 60" Deep Dry Filter Exhaust Hood.....     | 25,610.24 | 2,440.23 |

23 38 13 16-0020 Dry Extractor Exhaust Hoods (23 38 13 16-0001)

Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 23 38 13 16-0021 | EA | 8' Long x 60" Deep Dry Extractor Exhaust Hood .....     | 17,960.74 | 1,220.12 |
| 23 38 13 16-0022 | EA | 8'-6" Long x 60" Deep Dry Extractor Exhaust Hood .....  | 18,542.91 | 1,296.37 |
| 23 38 13 16-0023 | EA | 9' Long x 60" Deep Dry Extractor Exhaust Hood .....     | 20,168.72 | 1,372.63 |
| 23 38 13 16-0024 | EA | 9'-6" Long x 60" Deep Dry Extractor Exhaust Hood .....  | 20,763.96 | 1,448.89 |
| 23 38 13 16-0025 | EA | 10' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 21,360.24 | 1,525.15 |
| 23 38 13 16-0026 | EA | 10'-6" Long x 60" Deep Dry Extractor Exhaust Hood ..... | 21,923.41 | 1,601.40 |
| 23 38 13 16-0027 | EA | 11' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 22,520.57 | 1,677.66 |
| 23 38 13 16-0028 | EA | 11'-6" Long x 60" Deep Dry Extractor Exhaust Hood ..... | 23,086.82 | 1,753.91 |
| 23 38 13 16-0029 | EA | 12' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 23,620.21 | 1,830.18 |
| 23 38 13 16-0030 | EA | 12'-6" Long x 60" Deep Dry Extractor Exhaust Hood ..... | 24,371.96 | 1,906.44 |
| 23 38 13 16-0031 | EA | 13' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 25,237.94 | 1,982.69 |
| 23 38 13 16-0032 | EA | 13'-6" Long x 60" Deep Dry Extractor Exhaust Hood ..... | 26,154.14 | 2,058.95 |
| 23 38 13 16-0033 | EA | 14' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 28,043.27 | 2,135.20 |
| 23 38 13 16-0034 | EA | 14'-6" Long x 60" Deep Dry Extractor Exhaust Hood ..... | 28,977.07 | 2,211.47 |
| 23 38 13 16-0035 | EA | 15' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 30,769.07 | 2,287.72 |
| 23 38 13 16-0036 | EA | 15'-6" Long x 60" Deep Dry Extractor Exhaust Hood ..... | 32,586.69 | 2,363.98 |
| 23 38 13 16-0037 | EA | 16' Long x 60" Deep Dry Extractor Exhaust Hood .....    | 34,385.07 | 2,440.23 |

23 38 13 16-0038 Single Manifold Water Wash Exhaust Hoods (23 38 13 16-0001)

Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 23 38 13 16-0039 | EA | 8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....      | 19,227.86 | 1,220.12 |
| 23 38 13 16-0040 | EA | 8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....   | 19,841.72 | 1,296.37 |
| 23 38 13 16-0041 | EA | 9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....     | 21,499.20 | 1,372.63 |
| 23 38 13 16-0042 | EA | 9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....  | 22,110.28 | 1,448.89 |
| 23 38 13 16-0043 | EA | 10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 22,754.08 | 1,525.15 |
| 23 38 13 16-0044 | EA | 10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood ..... | 23,348.92 | 1,601.40 |
| 23 38 13 16-0045 | EA | 11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 23,961.92 | 1,677.66 |
| 23 38 13 16-0046 | EA | 11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood ..... | 24,575.69 | 1,753.91 |
| 23 38 13 16-0047 | EA | 12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 25,124.92 | 1,830.18 |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 38 13 16-0048 | EA  |     | 12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood ..... | 25,940.02              | 1,906.44             |
| 23 38 13 16-0049 | EA  |     | 13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 26,869.37              | 1,982.69             |
| 23 38 13 16-0050 | EA  |     | 13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood ..... | 27,848.92              | 2,058.95             |
| 23 38 13 16-0051 | EA  |     | 14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 29,801.41              | 2,135.20             |
| 23 38 13 16-0052 | EA  |     | 14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood ..... | 30,798.56              | 2,211.47             |
| 23 38 13 16-0053 | EA  |     | 15' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 32,764.79              | 2,287.72             |
| 23 38 13 16-0054 | EA  |     | 15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood ..... | 33,758.78              | 2,363.98             |
| 23 38 13 16-0055 | EA  |     | 16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood .....    | 34,749.37              | 2,440.23             |
| 23 38 13 16-0056 | EA  |     | Fan Wash Control Panel.....  | 13,697.11              | 610.06               |
|                  |     |     | Note: Includes time clock and backflow preventer.                    |                        |                      |

**23 38 13 16-0057**

**Utility Distribution System (UDS)** (23 38 13 16-0001)

Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 1" cold water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.

|                  |    |  |                       |           |        |
|------------------|----|--|-----------------------|-----------|--------|
| 23 38 13 16-0058 | EA |  | 8' Long UDS .....     | 35,080.00 | 620.43 |
| 23 38 13 16-0059 | EA |  | 8'-6" Long UDS .....  | 36,113.93 | 635.53 |
| 23 38 13 16-0060 | EA |  | 9' Long UDS .....     | 37,136.53 | 650.32 |
| 23 38 13 16-0061 | EA |  | 9'-6" Long UDS .....  | 38,171.19 | 671.07 |
| 23 38 13 16-0062 | EA |  | 10' Long UDS .....    | 39,197.24 | 687.53 |
| 23 38 13 16-0063 | EA |  | 10'-6" Long UDS ..... | 40,214.16 | 704.92 |
| 23 38 13 16-0064 | EA |  | 11' Long UDS .....    | 41,242.10 | 716.97 |
| 23 38 13 16-0065 | EA |  | 11'-6" Long UDS ..... | 42,272.87 | 735.88 |
| 23 38 13 16-0066 | EA |  | 12' Long UDS .....    | 43,319.44 | 762.57 |
| 23 38 13 16-0067 | EA |  | 12'-6" Long UDS ..... | 44,385.11 | 798.87 |
| 23 38 13 16-0068 | EA |  | 13' Long UDS .....    | 45,425.14 | 822.36 |
| 23 38 13 16-0069 | EA |  | 13'-6" Long UDS ..... | 46,485.33 | 855.91 |
| 23 38 13 16-0070 | EA |  | 14' Long UDS .....    | 47,532.44 | 882.91 |
| 23 38 13 16-0071 | EA |  | 14'-6" Long UDS ..... | 48,583.06 | 911.73 |
| 23 38 13 16-0072 | EA |  | 15' Long UDS .....    | 49,637.59 | 942.54 |
| 23 38 13 16-0073 | EA |  | 15'-6" Long UDS ..... | 50,696.37 | 975.33 |
| 23 38 13 16-0074 | EA |  | 16' Long UDS .....    | 51,735.88 | 998.67 |

**23 38 13 16-0075**

**Stainless Steel Exhaust Hood Material** (23 38 13 16)

Note: Welded seams.

|                  |    |  |   |        |       |
|------------------|----|--|---|--------|-------|
| 23 38 13 16-0076 | SF |  | 16 Gauge, Type 304, Stainless Steel Exhaust Hood Material ..... | 53.17  | 18.79 |
|                  |    |  | <i>For Type 316 Stainless Steel, Add</i>                        | 1.42   |       |
| 23 38 13 16-0077 | SF |  | 14 Gauge, Type 304, Stainless Steel Exhaust Hood Material ..... | 66.47  | 25.04 |
|                  |    |  | <i>For Type 316 Stainless Steel, Add</i>                        | 1.78   |       |
| 23 38 13 16-0078 | SF |  | 12 Gauge, Type 304, Stainless Steel Exhaust Hood Material ..... | 92.28  | 33.81 |
|                  |    |  | <i>For Type 316 Stainless Steel, Add</i>                        | 2.49   |       |
| 23 38 13 16-0079 | SF |  | 10 Gauge, Type 304, Stainless Steel Exhaust Hood Material ..... | 115.44 | 41.32 |
|                  |    |  | <i>For Type 316 Stainless Steel, Add</i>                        | 3.20   |       |

**23 40 HVAC Air Cleaning Devices** (23)

**23 41 Particulate Air Filtration** (23 40)

**23 41 13 Panel Air Filters** (23 41)

**23 41 13 00-0001 Disposable Air Filters** (23 41 13)

|                  |    |  |  |       |  |
|------------------|----|--|--|-------|--|
| 23 41 13 00-0002 | EA |  | Throwaway Glass Or Paper Media Filter, Residential ..... | 16.21 |  |
|------------------|----|--|--|-------|--|

**23 41 13 00-0003 Disposable Fiberglass Air Filters** (23 41 13)

|                  |    |  |  |       |      |
|------------------|----|--|--|-------|------|
| 23 41 13 00-0004 | EA |  | 8" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....  | 16.34 | 7.37 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0005 | EA |  | 8" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....  | 16.34 | 7.37 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0006 | EA |  | 8" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....  | 16.01 | 7.37 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0007 | EA |  | 10" x 10" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 15.93 | 7.72 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0008 | EA |  | 10" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 15.93 | 7.72 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0009 | EA |  | 10" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 15.93 | 7.72 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0010 | EA |  | 10" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 15.93 | 7.72 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0011 | EA |  | 10" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 16.20 | 7.72 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0012 | EA |  | 12" x 12" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 16.82 | 8.06 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0013 | EA |  | 12" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 16.79 | 8.06 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |
| 23 41 13 00-0014 | EA |  | 12" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... | 16.04 | 8.06 |
|                  |    |  | Note: One-piece kraft fiberboard frame with two metal grids. |       |      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 41 13 00-0015 EA 12" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 16.04                     | 8.06                    |
| 23 41 13 00-0016 EA 12" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 16.04                     | 8.06                    |
| 23 41 13 00-0017 EA 12" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 19.00                     | 8.06                    |
| 23 41 13 00-0018 EA 12" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.39                     | 8.06                    |
| 23 41 13 00-0019 EA 14" x 14" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 18.10                     | 8.52                    |
| 23 41 13 00-0020 EA 14" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 20.93                     | 8.52                    |
| 23 41 13 00-0021 EA 14" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.01                     | 8.52                    |
| 23 41 13 00-0022 EA 14" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 18.10                     | 8.52                    |
| 23 41 13 00-0023 EA 14" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.01                     | 8.52                    |
| 23 41 13 00-0024 EA 14" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 19.12                     | 8.52                    |
| 23 41 13 00-0025 EA 15" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.22                     | 8.76                    |
| 23 41 13 00-0026 EA 15" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.22                     | 8.76                    |
| 23 41 13 00-0027 EA 15" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.16                     | 8.76                    |
| 23 41 13 00-0028 EA 16" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.41                     | 8.87                    |
| 23 41 13 00-0029 EA 16" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 19.25                     | 8.87                    |
| 23 41 13 00-0030 EA 16" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.47                     | 8.87                    |
| 23 41 13 00-0031 EA 16" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 18.56                     | 8.87                    |
| 23 41 13 00-0032 EA 16" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 16.76                     | 8.87                    |
| 23 41 13 00-0033 EA 16" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.34                     | 8.87                    |
| 23 41 13 00-0034 EA 16" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 26.45                     | 8.87                    |
| 23 41 13 00-0035 EA 16" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 26.12                     | 8.87                    |
| 23 41 13 00-0036 EA 18" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 19.01                     | 9.22                    |
| 23 41 13 00-0037 EA 18" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 18.58                     | 9.22                    |
| 23 41 13 00-0038 EA 18" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 19.01                     | 9.22                    |
| 23 41 13 00-0039 EA 18" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 20.44                     | 9.22                    |
| 23 41 13 00-0040 EA 18" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.52                     | 9.22                    |
| 23 41 13 00-0041 EA 18" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 24.91                     | 9.22                    |
| 23 41 13 00-0042 EA 19" x 27" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 21.14                     | 9.68                    |
| 23 41 13 00-0043 EA 20" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 17.81                     | 9.68                    |
| 23 41 13 00-0044 EA 20" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 21.56                     | 9.68                    |
| 23 41 13 00-0045 EA 20" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 20.68                     | 9.68                    |
| 23 41 13 00-0046 EA 20" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.46                     | 9.68                    |
| 23 41 13 00-0047 EA 20" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 27.52                     | 9.68                    |
| 23 41 13 00-0048 EA 20" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 24.86                     | 9.68                    |
| 23 41 13 00-0049 EA 21" x 21" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.67                     | 9.79                    |
| 23 41 13 00-0050 EA 22" x 22" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 21.72                     | 9.91                    |
| 23 41 13 00-0051 EA 24" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 21.87                     | 10.02                   |
| 23 41 13 00-0052 EA 24" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.59                     | 10.02                   |
| 23 41 13 00-0053 EA 24" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 29.98                     | 10.02                   |
| 23 41 13 00-0054 EA 25" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 22.03                     | 10.13                   |
| 23 41 13 00-0055 EA 25" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 30.58                     | 10.13                   |
| 23 41 13 00-0056 EA 10" x 10" x 2" Disposable Fiberglass Air Filter, MERV 5.....<br>Note: One-piece kraft fiberboard frame with two metal grids. | 18.17                     | 7.72                    |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include various Disposable Fiberglass Air Filter specifications.

23 41 13 00-0071 Disposable Pleated Air Filters (23 41 13)

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include various Disposable Pleated Air Filter specifications.



23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 41 13 00-0123 EA 24" x 24" x 2" Disposable Pleated Air Filter, MERV 8                            | 27.71                     | 10.02                   |
| 23 41 13 00-0124 EA 25" x 25" x 2" Disposable Pleated Air Filter, MERV 8                            | 30.56                     | 10.13                   |
| 23 41 13 00-0125 EA 12" x 24" x 4" Disposable Pleated Air Filter, MERV 8                            | 31.71                     | 8.06                    |
| 23 41 13 00-0126 EA 16" x 20" x 4" Disposable Pleated Air Filter, MERV 8                            | 34.28                     | 8.87                    |
| 23 41 13 00-0127 EA 16" x 25" x 4" Disposable Pleated Air Filter, MERV 8                            | 36.61                     | 8.87                    |
| 23 41 13 00-0128 EA 18" x 24" x 4" Disposable Pleated Air Filter, MERV 8                            | 39.45                     | 9.22                    |
| 23 41 13 00-0129 EA 20" x 20" x 4" Disposable Pleated Air Filter, MERV 8                            | 37.55                     | 9.68                    |
| 23 41 13 00-0130 EA 20" x 24" x 4" Disposable Pleated Air Filter, MERV 8                            | 40.81                     | 9.68                    |
| 23 41 13 00-0131 EA 20" x 25" x 4" Disposable Pleated Air Filter, MERV 8                            | 41.11                     | 9.68                    |
| 23 41 13 00-0132 EA 24" x 24" x 4" Disposable Pleated Air Filter, MERV 8                            | 44.85                     | 10.02                   |
| 23 41 13 00-0133 EA 10" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 28.86                     | 7.72                    |
| 23 41 13 00-0134 EA 10" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 28.86                     | 7.72                    |
| 23 41 13 00-0135 EA 10" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 37.29                     | 7.72                    |
| 23 41 13 00-0136 EA 12" x 12" x 1" Disposable Pleated Air Filter, MERV 11                           | 30.59                     | 8.06                    |
| 23 41 13 00-0137 EA 12" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 29.84                     | 8.06                    |
| 23 41 13 00-0138 EA 12" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 29.71                     | 8.06                    |
| 23 41 13 00-0139 EA 12" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 42.27                     | 8.06                    |
| 23 41 13 00-0140 EA 14" x 14" x 1" Disposable Pleated Air Filter, MERV 11                           | 34.72                     | 8.52                    |
| 23 41 13 00-0141 EA 14" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 30.64                     | 8.52                    |
| 23 41 13 00-0142 EA 14" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 39.41                     | 8.52                    |
| 23 41 13 00-0143 EA 14" x 25" x 1" Disposable Pleated Air Filter, MERV 11                           | 38.56                     | 8.52                    |
| 23 41 13 00-0144 EA 14" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 45.18                     | 8.52                    |
| 23 41 13 00-0145 EA 15" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 29.44                     | 8.76                    |
| 23 41 13 00-0146 EA 16" x 16" x 1" Disposable Pleated Air Filter, MERV 11                           | 41.49                     | 8.87                    |
| 23 41 13 00-0147 EA 16" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 27.55                     | 8.87                    |
| 23 41 13 00-0148 EA 16" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 35.37                     | 8.87                    |
| 23 41 13 00-0149 EA 16" x 25" x 1" Disposable Pleated Air Filter, MERV 11                           | 32.55                     | 8.87                    |
| 23 41 13 00-0150 EA 16" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 42.80                     | 8.87                    |
| 23 41 13 00-0151 EA 18" x 18" x 1" Disposable Pleated Air Filter, MERV 11                           | 43.79                     | 9.22                    |
| 23 41 13 00-0152 EA 18" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 37.25                     | 9.22                    |
| 23 41 13 00-0153 EA 18" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 33.64                     | 9.22                    |
| 23 41 13 00-0154 EA 18" x 25" x 1" Disposable Pleated Air Filter, MERV 11                           | 35.82                     | 9.22                    |
| 23 41 13 00-0155 EA 18" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 49.41                     | 9.22                    |
| 23 41 13 00-0156 EA 20" x 20" x 1" Disposable Pleated Air Filter, MERV 11                           | 33.82                     | 9.68                    |
| 23 41 13 00-0157 EA 20" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 37.05                     | 9.68                    |
| 23 41 13 00-0158 EA 20" x 25" x 1" Disposable Pleated Air Filter, MERV 11                           | 37.40                     | 9.68                    |
| 23 41 13 00-0159 EA 20" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 43.41                     | 9.68                    |
| 23 41 13 00-0160 EA 22" x 22" x 1" Disposable Pleated Air Filter, MERV 11                           | 48.01                     | 9.91                    |
| 23 41 13 00-0161 EA 24" x 24" x 1" Disposable Pleated Air Filter, MERV 11                           | 40.55                     | 10.02                   |
| 23 41 13 00-0162 EA 24" x 30" x 1" Disposable Pleated Air Filter, MERV 11                           | 52.35                     | 10.02                   |
| 23 41 13 00-0163 EA 25" x 25" x 1" Disposable Pleated Air Filter, MERV 11                           | 45.56                     | 10.13                   |
| 23 41 13 00-0164 EA 10" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 29.37                     | 7.72                    |
| 23 41 13 00-0165 EA 12" x 12" x 2" Disposable Pleated Air Filter, MERV 11                           | 30.92                     | 8.06                    |
| 23 41 13 00-0166 EA 12" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 29.43                     | 8.06                    |
| 23 41 13 00-0167 EA 12" x 24" x 2" Disposable Pleated Air Filter, MERV 11                           | 34.45                     | 8.06                    |
| 23 41 13 00-0168 EA 14" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 30.98                     | 8.52                    |
| 23 41 13 00-0169 EA 14" x 25" x 2" Disposable Pleated Air Filter, MERV 11                           | 32.43                     | 8.52                    |
| 23 41 13 00-0170 EA 15" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 31.82                     | 8.76                    |
| 23 41 13 00-0171 EA 16" x 16" x 2" Disposable Pleated Air Filter, MERV 11                           | 42.34                     | 8.87                    |
| 23 41 13 00-0172 EA 16" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 36.96                     | 8.87                    |
| 23 41 13 00-0173 EA 16" x 24" x 2" Disposable Pleated Air Filter, MERV 11                           | 36.04                     | 8.87                    |
| 23 41 13 00-0174 EA 16" x 25" x 2" Disposable Pleated Air Filter, MERV 11                           | 40.72                     | 8.87                    |
| 23 41 13 00-0175 EA 18" x 18" x 2" Disposable Pleated Air Filter, MERV 11                           | 48.70                     | 9.22                    |
| 23 41 13 00-0176 EA 18" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 38.78                     | 9.22                    |
| 23 41 13 00-0177 EA 18" x 24" x 2" Disposable Pleated Air Filter, MERV 11                           | 44.15                     | 9.22                    |
| 23 41 13 00-0178 EA 18" x 25" x 2" Disposable Pleated Air Filter, MERV 11                           | 38.35                     | 9.22                    |
| 23 41 13 00-0179 EA 20" x 20" x 2" Disposable Pleated Air Filter, MERV 11                           | 42.48                     | 9.68                    |
| 23 41 13 00-0180 EA 20" x 24" x 2" Disposable Pleated Air Filter, MERV 11                           | 45.48                     | 9.68                    |
| 23 41 13 00-0181 EA 20" x 25" x 2" Disposable Pleated Air Filter, MERV 11                           | 45.92                     | 9.68                    |
| 23 41 13 00-0182 EA 24" x 24" x 2" Disposable Pleated Air Filter, MERV 11                           | 45.94                     | 10.02                   |
| 23 41 13 00-0183 EA 25" x 25" x 2" Disposable Pleated Air Filter, MERV 11                           | 46.54                     | 10.13                   |
| 23 41 13 00-0184 EA 12" x 24" x 4" Disposable Pleated Air Filter, MERV 11                           | 55.59                     | 8.06                    |
| 23 41 13 00-0185 EA 16" x 20" x 4" Disposable Pleated Air Filter, MERV 11                           | 56.99                     | 8.87                    |
| 23 41 13 00-0186 EA 16" x 25" x 4" Disposable Pleated Air Filter, MERV 11                           | 67.72                     | 8.87                    |
| 23 41 13 00-0187 EA 18" x 24" x 4" Disposable Pleated Air Filter, MERV 11                           | 67.65                     | 9.22                    |
| 23 41 13 00-0188 EA 20" x 20" x 4" Disposable Pleated Air Filter, MERV 11                           | 67.44                     | 9.68                    |
| 23 41 13 00-0189 EA 20" x 24" x 4" Disposable Pleated Air Filter, MERV 11                           | 74.18                     | 9.68                    |
| 23 41 13 00-0190 EA 20" x 25" x 4" Disposable Pleated Air Filter, MERV 11                           | 74.18                     | 9.68                    |
| 23 41 13 00-0191 EA 24" x 24" x 4" Disposable Pleated Air Filter, MERV 11                           | 82.72                     | 10.02                   |
| 23 41 13 00-0192 EA 8" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13  | 36.61                     | 7.37                    |
| 23 41 13 00-0193 EA 8" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13  | 36.61                     | 7.37                    |
| 23 41 13 00-0194 EA 8" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13  | 36.61                     | 7.37                    |
| 23 41 13 00-0195 EA 10" x 10" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 37.07                     | 7.72                    |
| 23 41 13 00-0196 EA 10" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 35.49                     | 7.72                    |
| 23 41 13 00-0197 EA 10" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 37.07                     | 7.72                    |
| 23 41 13 00-0198 EA 10" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 37.07                     | 7.72                    |
| 23 41 13 00-0199 EA 10" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 37.07                     | 7.72                    |
| 23 41 13 00-0200 EA 12" x 12" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 35.96                     | 8.06                    |
| 23 41 13 00-0201 EA 12" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 37.54                     | 8.06                    |
| 23 41 13 00-0202 EA 12" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 35.96                     | 8.06                    |
| 23 41 13 00-0203 EA 12" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 | 35.96                     | 8.06                    |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 41 13 00-0204 | EA  |     | 12" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.54                  | 8.06                 |
| 23 41 13 00-0205 | EA  |     | 12" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.54                  | 8.06                 |
| 23 41 13 00-0206 | EA  |     | 12" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 39.12                  | 8.06                 |
| 23 41 13 00-0207 | EA  |     | 14" x 14" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 36.57                  | 8.52                 |
| 23 41 13 00-0208 | EA  |     | 14" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.15                  | 8.52                 |
| 23 41 13 00-0209 | EA  |     | 14" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 36.57                  | 8.52                 |
| 23 41 13 00-0210 | EA  |     | 14" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 36.57                  | 8.52                 |
| 23 41 13 00-0211 | EA  |     | 14" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 36.57                  | 8.52                 |
| 23 41 13 00-0212 | EA  |     | 14" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.15                  | 8.52                 |
| 23 41 13 00-0213 | EA  |     | 15" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 36.87                  | 8.76                 |
| 23 41 13 00-0214 | EA  |     | 15" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.45                  | 8.76                 |
| 23 41 13 00-0215 | EA  |     | 15" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.45                  | 8.76                 |
| 23 41 13 00-0216 | EA  |     | 16" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.03                  | 8.87                 |
| 23 41 13 00-0217 | EA  |     | 16" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.61                  | 8.87                 |
| 23 41 13 00-0218 | EA  |     | 16" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.03                  | 8.87                 |
| 23 41 13 00-0219 | EA  |     | 16" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.03                  | 8.87                 |
| 23 41 13 00-0220 | EA  |     | 16" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.03                  | 8.87                 |
| 23 41 13 00-0221 | EA  |     | 16" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.61                  | 8.87                 |
| 23 41 13 00-0222 | EA  |     | 16" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.61                  | 8.87                 |
| 23 41 13 00-0223 | EA  |     | 16" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 43.73                  | 8.87                 |
| 23 41 13 00-0224 | EA  |     | 18" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.48                  | 9.22                 |
| 23 41 13 00-0225 | EA  |     | 18" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 40.64                  | 9.22                 |
| 23 41 13 00-0226 | EA  |     | 18" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 37.48                  | 9.22                 |
| 23 41 13 00-0227 | EA  |     | 18" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 40.64                  | 9.22                 |
| 23 41 13 00-0228 | EA  |     | 18" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 40.64                  | 9.22                 |
| 23 41 13 00-0229 | EA  |     | 18" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 44.18                  | 9.22                 |
| 23 41 13 00-0230 | EA  |     | 19" x 27" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 41.26                  | 9.68                 |
| 23 41 13 00-0231 | EA  |     | 20" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.10                  | 9.68                 |
| 23 41 13 00-0232 | EA  |     | 20" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.10                  | 9.68                 |
| 23 41 13 00-0233 | EA  |     | 20" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 38.10                  | 9.68                 |
| 23 41 13 00-0234 | EA  |     | 20" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 39.68                  | 9.68                 |
| 23 41 13 00-0235 | EA  |     | 20" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 44.80                  | 9.68                 |
| 23 41 13 00-0236 | EA  |     | 20" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 44.80                  | 9.68                 |
| 23 41 13 00-0237 | EA  |     | 21" x 21" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 41.42                  | 9.79                 |
| 23 41 13 00-0238 | EA  |     | 22" x 22" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 39.99                  | 9.91                 |
| 23 41 13 00-0239 | EA  |     | 24" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 43.29                  | 10.02                |
| 23 41 13 00-0240 | EA  |     | 24" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 43.29                  | 10.02                |
| 23 41 13 00-0241 | EA  |     | 24" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 48.41                  | 10.02                |
| 23 41 13 00-0242 | EA  |     | 25" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 43.45                  | 10.13                |
| 23 41 13 00-0243 | EA  |     | 25" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 48.57                  | 10.13                |
| 23 41 13 00-0244 | EA  |     | 30" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....   | 48.87                  | 10.36                |
|                  |     |     |   |                        |                      |
| 23 41 13 00-0245 |     |     | <b>Carbon Vapor Trap, Disposable V-Bank Filter</b> <sup>(23 41 13)</sup>  |                        |                      |
| 23 41 13 00-0246 | EA  |     | 24" x 24" x 12" Thick Carbon Vapor, Disposable V-Bank Filter .....  | 945.11                 | 23.04                |
|                  |     |     |   |                        |                      |
| 23 41 13 00-0247 |     |     | <b>Electrostatic Air Filters With Frame, Element And Busbar</b> <sup>(23 41 13)</sup>   |                        |                      |
| 23 41 13 00-0248 | MF3 |     | Electrostatic Air Filter, High Efficiency Non-Supported With Frame, Element And Busbar .....  | 81.99                  |                      |
| 23 41 13 00-0249 | MF3 |     | Electrostatic Air Filter, Medium Efficiency Non-Supported With Frame, Element And Busbar .....  | 79.19                  |                      |
| 23 41 13 00-0250 | MF3 |     | Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar .....  | 3.42                   |                      |
|                  |     |     |   |                        |                      |
| 23 41 16         |     |     | <b>Renewable-Media Air Filters</b> <sup>(23 41)</sup>   |                        |                      |
| 23 41 16 00-0001 |     |     | <b>Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar</b> <sup>(23 41 16)</sup>   |                        |                      |
| 23 41 16 00-0002 | MF3 |     | Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar .....   | 141.09                 |                      |
|                  |     |     |   |                        |                      |
| 23 41 19         |     |     | <b>Washable Air Filters</b> <sup>(23 41)</sup>  |                        |                      |
| 23 41 19 00-0001 |     |     | <b>Washable Electrostatic Air Filters With Frame, Element And Busbar</b> <sup>(23 41 19)</sup>  |                        |                      |
| 23 41 19 00-0002 | MF3 |     | Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar .....  | 53.87                  |                      |
|                  |     |     |   |                        |                      |
| 23 41 33         |     |     | <b>High-Efficiency Particulate Filtration</b> <sup>(23 41)</sup>  |                        |                      |
| 23 41 33 00-0001 |     |     | <b>High Efficiency Particulate Air (HEPA) Filters</b> <sup>(23 41 33)</sup><br>Note: Includes particle board and kraft paper frame and separator material. See CSI section 23 41 13 00-0000 for prefilters. |                        |                      |
| 23 41 33 00-0002 |     |     | <b>High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-95%</b> <sup>(23 41 33 00-0001)</sup>  |                        |                      |
| 23 41 33 00-0003 | EA  |     | 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 150 CFM, Complete .....  | 149.85                 | 21.50                |
|                  |     |     | <i>For Removal And Replacement In Existing Equipment, Add</i>   | 4.30                   |                      |
|                  |     |     | <i>For &gt;10 To 25, Deduct</i>   | -3.75                  |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.49                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -11.24                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -14.99                 |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 41 33 00-0004 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 375 CFM, Complete .....    | 198.29                    | 24.58                   |
| For Removal And Replacement In Existing Equipment, Add  | 4.91                      |                         |
| For >10 To 25, Deduct   | -4.96                     |                         |
| For >25 To 50, Deduct   | -9.91                     |                         |
| For >50 To 100, Deduct  | -14.87                    |                         |
| For >100, Deduct  | -19.83                    |                         |
| 23 41 33 00-0005 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 450 CFM, Complete .....    | 231.99                    | 28.42                   |
| For Removal And Replacement In Existing Equipment, Add  | 5.68                      |                         |
| For >10 To 25, Deduct   | -5.80                     |                         |
| For >25 To 50, Deduct   | -11.60                    |                         |
| For >50 To 100, Deduct  | -17.40                    |                         |
| For >100, Deduct  | -23.20                    |                         |
| 23 41 33 00-0006 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 700 CFM, Complete .....    | 265.73                    | 32.26                   |
| For Removal And Replacement In Existing Equipment, Add  | 6.45                      |                         |
| For >10 To 25, Deduct   | -6.64                     |                         |
| For >25 To 50, Deduct   | -13.29                    |                         |
| For >50 To 100, Deduct  | -19.93                    |                         |
| For >100, Deduct  | -26.57                    |                         |
| 23 41 33 00-0007 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 250 CFM, Complete .....   | 181.84                    | 23.04                   |
| For Removal And Replacement In Existing Equipment, Add  | 4.61                      |                         |
| For >10 To 25, Deduct   | -4.55                     |                         |
| For >25 To 50, Deduct   | -9.09                     |                         |
| For >50 To 100, Deduct  | -13.64                    |                         |
| For >100, Deduct  | -18.18                    |                         |
| 23 41 33 00-0008 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 500 CFM, Complete .....   | 243.24                    | 26.88                   |
| For Removal And Replacement In Existing Equipment, Add  | 5.38                      |                         |
| For >10 To 25, Deduct   | -6.08                     |                         |
| For >25 To 50, Deduct   | -12.16                    |                         |
| For >50 To 100, Deduct  | -18.24                    |                         |
| For >100, Deduct  | -24.32                    |                         |
| 23 41 33 00-0009 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 875 CFM, Complete .....   | 290.41                    | 30.72                   |
| For Removal And Replacement In Existing Equipment, Add  | 6.14                      |                         |
| For >10 To 25, Deduct   | -7.26                     |                         |
| For >25 To 50, Deduct   | -14.52                    |                         |
| For >50 To 100, Deduct  | -21.78                    |                         |
| For >100, Deduct  | -29.04                    |                         |
| 23 41 33 00-0010 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 1,000 CFM, Complete.....  | 345.26                    | 38.40                   |
| For Removal And Replacement In Existing Equipment, Add  | 7.68                      |                         |
| For >10 To 25, Deduct   | -8.63                     |                         |
| For >25 To 50, Deduct   | -17.26                    |                         |
| For >50 To 100, Deduct  | -25.89                    |                         |
| For >100, Deduct  | -34.53                    |                         |
| <b>23 41 33 00-0011 High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-99.99%</b> <small>(23 41 33 00-0001)</small>    |                           |                         |
| 23 41 33 00-0012 EA 12" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....          | 128.57                    | 19.20                   |
| For Removal And Replacement In Existing Equipment, Add  | 3.84                      |                         |
| For >10 To 25, Deduct   | -3.21                     |                         |
| For >25 To 50, Deduct   | -6.43                     |                         |
| For >50 To 100, Deduct  | -9.64                     |                         |
| For >100, Deduct  | -12.86                    |                         |
| 23 41 33 00-0013 EA 24" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....          | 177.11                    | 23.04                   |
| For Removal And Replacement In Existing Equipment, Add  | 4.61                      |                         |
| For >10 To 25, Deduct   | -4.43                     |                         |
| For >25 To 50, Deduct   | -8.86                     |                         |
| For >50 To 100, Deduct  | -13.28                    |                         |
| For >100, Deduct  | -17.71                    |                         |
| 23 41 33 00-0014 EA 24" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....          | 269.06                    | 26.88                   |
| For Removal And Replacement In Existing Equipment, Add  | 5.38                      |                         |
| For >10 To 25, Deduct   | -6.73                     |                         |
| For >25 To 50, Deduct   | -13.45                    |                         |
| For >50 To 100, Deduct  | -20.18                    |                         |
| For >100, Deduct  | -26.91                    |                         |
| 23 41 33 00-0015 EA 36" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....          | 345.03                    | 30.72                   |
| For Removal And Replacement In Existing Equipment, Add  | 6.14                      |                         |
| For >10 To 25, Deduct   | -8.63                     |                         |
| For >25 To 50, Deduct   | -17.25                    |                         |
| For >50 To 100, Deduct  | -25.88                    |                         |
| For >100, Deduct  | -34.50                    |                         |
| 23 41 33 00-0016 EA 8" x 8" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....            | 120.81                    | 15.36                   |
| For Removal And Replacement In Existing Equipment, Add  | 3.07                      |                         |
| For >10 To 25, Deduct   | -3.02                     |                         |
| For >25 To 50, Deduct   | -6.04                     |                         |
| For >50 To 100, Deduct  | -9.06                     |                         |
| For >100, Deduct  | -12.08                    |                         |
| 23 41 33 00-0017 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 150 CFM, Complete ..... | 160.19                    | 20.74                   |
| For Removal And Replacement In Existing Equipment, Add  | 4.15                      |                         |
| For >10 To 25, Deduct   | -4.00                     |                         |
| For >25 To 50, Deduct   | -8.01                     |                         |
| For >50 To 100, Deduct  | -12.01                    |                         |
| For >100, Deduct  | -16.02                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 41 33 00-0018 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 325 CFM, Complete ..... 214.86    |                           | 24.58                   |
| For Removal And Replacement In Existing Equipment, Add  | 4.91                      |                         |
| For >10 To 25, Deduct   | -5.37                     |                         |
| For >25 To 50, Deduct   | -10.74                    |                         |
| For >50 To 100, Deduct  | -16.11                    |                         |
| For >100, Deduct  | -21.49                    |                         |
| 23 41 33 00-0019 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 550 CFM, Complete ..... 252.24    |                           | 28.80                   |
| For Removal And Replacement In Existing Equipment, Add  | 5.76                      |                         |
| For >10 To 25, Deduct   | -6.31                     |                         |
| For >25 To 50, Deduct   | -12.61                    |                         |
| For >50 To 100, Deduct  | -18.92                    |                         |
| For >100, Deduct  | -25.22                    |                         |
| 23 41 33 00-0020 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete ..... 288.08    |                           | 32.26                   |
| For Removal And Replacement In Existing Equipment, Add  | 6.45                      |                         |
| For >10 To 25, Deduct   | -7.20                     |                         |
| For >25 To 50, Deduct   | -14.40                    |                         |
| For >50 To 100, Deduct  | -21.61                    |                         |
| For >100, Deduct  | -28.81                    |                         |
| 23 41 33 00-0021 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 250 CFM, Complete ..... 196.92   |                           | 23.04                   |
| For Removal And Replacement In Existing Equipment, Add  | 4.61                      |                         |
| For >10 To 25, Deduct   | -4.92                     |                         |
| For >25 To 50, Deduct   | -9.85                     |                         |
| For >50 To 100, Deduct  | -14.77                    |                         |
| For >100, Deduct  | -19.69                    |                         |
| 23 41 33 00-0022 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 500 CFM, Complete ..... 264.30   |                           | 26.88                   |
| For Removal And Replacement In Existing Equipment, Add  | 5.38                      |                         |
| For >10 To 25, Deduct   | -6.61                     |                         |
| For >25 To 50, Deduct   | -13.22                    |                         |
| For >50 To 100, Deduct  | -19.82                    |                         |
| For >100, Deduct  | -26.43                    |                         |
| 23 41 33 00-0023 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete ..... 315.85   |                           | 30.72                   |
| For Removal And Replacement In Existing Equipment, Add  | 6.14                      |                         |
| For >10 To 25, Deduct   | -7.90                     |                         |
| For >25 To 50, Deduct   | -15.79                    |                         |
| For >50 To 100, Deduct  | -23.69                    |                         |
| For >100, Deduct  | -31.59                    |                         |
| 23 41 33 00-0024 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete ..... 389.28 |                           | 38.40                   |
| For Removal And Replacement In Existing Equipment, Add  | 7.68                      |                         |
| For >10 To 25, Deduct   | -9.73                     |                         |
| For >25 To 50, Deduct   | -19.46                    |                         |
| For >50 To 100, Deduct  | -29.20                    |                         |
| For >100, Deduct  | -38.93                    |                         |

**23 41 33 00-0025 High Efficiency Particulate Air (HEPA) Filter Housings, 14 Gauge Galvanized Sheet Metal (23 41 33)**

Note: Nominal sizes.

|   |  |        |
|---|--|--------|
| 23 41 33 00-0026 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 380.80    |  | 114.54 |
| 23 41 33 00-0027 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 713.51    |  | 227.68 |
| 23 41 33 00-0028 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 723.82    |  | 227.68 |
| 23 41 33 00-0029 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 730.69    |  | 227.68 |
| 23 41 33 00-0030 EA 24" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 778.76    |  | 227.68 |
| 23 41 33 00-0031 EA 24" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 838.86    |  | 227.68 |
| 23 41 33 00-0032 EA 48" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 1,385.81  |  | 456.77 |
| 23 41 33 00-0033 EA 48" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 1,531.76  |  | 456.77 |
| 23 41 33 00-0034 EA 48" x 96" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 1,717.19  |  | 456.77 |
| 23 41 33 00-0035 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 409.99   |  | 114.54 |
| 23 41 33 00-0036 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 763.31   |  | 227.68 |
| 23 41 33 00-0037 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 775.33   |  | 227.68 |
| 23 41 33 00-0038 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 783.91   |  | 227.68 |
| 23 41 33 00-0039 EA 24" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 840.57   |  | 227.68 |
| 23 41 33 00-0040 EA 24" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 916.12   |  | 227.68 |
| 23 41 33 00-0041 EA 48" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 1,506.00 |  | 456.77 |
| 23 41 33 00-0042 EA 48" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 1,688.00 |  | 456.77 |
| 23 41 33 00-0043 EA 48" x 96" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal..... 1,918.08 |  | 456.77 |

**23 41 33 00-0044 Filter, Bag Type, 90-95% Efficiency (23 41 33)**

|   |  |        |
|---|--|--------|
| 23 41 33 00-0045 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency..... 348.17 |  | 148.49 |
| 23 41 33 00-0046 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency..... 396.21   |  | 148.49 |

**23 41 33 00-0047 Filter, Bag Type, 80-85% Efficiency (23 41 33)**

|   |  |        |
|---|--|--------|
| 23 41 33 00-0048 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency..... 342.65 |  | 148.49 |
| 23 41 33 00-0049 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency..... 378.10   |  | 148.49 |

**23 42 Gas-Phase Air Filtration (23 40)**

**23 42 13 Activated-Carbon Air Filtration (23 42)**

|  |  |       |
|--|--|-------|
| 23 42 13 00-0001 EA 12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter..... 54.02 |  | 11.52 |
| 23 42 13 00-0002 EA 16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter..... 54.62 |  | 11.52 |
| 23 42 13 00-0003 EA 16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter..... 54.98 |  | 11.52 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 40 HVAC Air Cleaning Devices**

**23 42 Gas-Phase Air Filtration**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 23 42 | 13 00-0004 | EA  | 20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter..... | 54.98                  | 11.52                |
| 23 42 | 13 00-0005 | EA  | 20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter..... | 59.48                  | 11.52                |
| 23 42 | 13 00-0006 | EA  | 24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter..... | 66.89                  | 11.52                |
| 23 42 | 13 00-0007 | EA  | 12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter..... | 68.05                  | 13.06                |
| 23 42 | 13 00-0008 | EA  | 16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter..... | 68.55                  | 13.06                |
| 23 42 | 13 00-0009 | EA  | 16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter..... | 68.98                  | 13.06                |
| 23 42 | 13 00-0010 | EA  | 20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter..... | 68.98                  | 13.06                |
| 23 42 | 13 00-0011 | EA  | 20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter..... | 73.96                  | 13.06                |
| 23 42 | 13 00-0012 | EA  | 24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter..... | 87.83                  | 13.06                |
| 23 42 | 13 00-0013 | EA  | 16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....        | 33.41                  | 11.52                |
| 23 42 | 13 00-0014 | EA  | 16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....        | 35.56                  | 11.52                |
| 23 42 | 13 00-0015 | EA  | 20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....        | 35.63                  | 11.52                |
| 23 42 | 13 00-0016 | EA  | 20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....        | 38.44                  | 11.52                |
| 23 42 | 13 00-0017 | EA  | 24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter.....        | 40.93                  | 11.52                |
| 23 42 | 13 00-0018 | EA  | 16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....        | 38.65                  | 13.06                |
| 23 42 | 13 00-0019 | EA  | 16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....        | 42.39                  | 13.06                |
| 23 42 | 13 00-0020 | EA  | 20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....        | 43.17                  | 13.06                |
| 23 42 | 13 00-0021 | EA  | 20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....        | 47.81                  | 13.06                |
| 23 42 | 13 00-0022 | EA  | 24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter.....        | 50.75                  | 13.06                |
| 23 42 | 13 00-0023 | EA  | 24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter.....        | 82.76                  | 13.82                |

**23 43 Electronic Air Cleaners** (23 40)

**23 43 23 Self-Contained Electronic Air Cleaners** (23 43)

**23 43 23 00-0001 Stationary Floor, Room Air Purifier** (23 43 23)

|       |            |    |   |          |  |
|-------|------------|----|---|----------|--|
| 23 43 | 23 00-0002 | EA | Stationary Floor Room Air Purifier, Up to 390 SF (Blueair Pro M).....           | 1,121.26 |  |
| 23 43 | 23 00-0003 | EA | Stationary Floor Room Air Purifier, Up to 780 SF (Blueair Pro L).....           | 1,561.34 |  |
| 23 43 | 23 00-0004 | EA | Stationary Floor Room Air Purifier, Up to 1,180 SF (Blueair Pro XL).....        | 3,950.32 |  |
| 23 43 | 23 00-0005 | EA | Stationary Floor Room Air Purifier, Up to 550 SF (Delos Compact).....           | 883.95   |  |
| 23 43 | 23 00-0006 | EA | Stationary Floor Room Air Purifier, Up to 1,125 SF (Delos 468 Ultrafine).....   | 1,591.22 |  |
| 23 43 | 23 00-0007 | EA | Stationary Floor Room Air Purifier, Up to 3,500 SF (Delos 980P Commercial)..... | 6,306.32 |  |

**23 43 23 00-0008 Surface Mounted, Room Air Purifier** (23 43 23)

|       |            |    |   |          |  |
|-------|------------|----|---|----------|--|
| 23 43 | 23 00-0009 | EA | Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F114A1067).....     | 3,024.86 |  |
| 23 43 | 23 00-0010 | EA | Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F115A1064).....     | 4,161.91 |  |
| 23 43 | 23 00-0011 | EA | Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F111A1063W-3S)..... | 4,741.16 |  |

**23 43 23 00-0012 Suspension Ceiling Mounted, Room Air Purifier** (23 43 23)

|       |            |    |  |          |  |
|-------|------------|----|--|----------|--|
| 23 43 | 23 00-0013 | EA | 2' x 4' Suspension Ceiling Mounted, Air Purification System (Armstrong VidaShield UV24)..... | 3,839.62 |  |
|-------|------------|----|--|----------|--|

**23 50 Central Heating Equipment** (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 51 Breechings, Chimneys, and Stacks** (23 50)

**23 51 13 Draft Control Devices** (23 51)

**23 51 13 13 Draft-Induction Fans** (23 51 13)

**23 51 13 13-0001 Vertical Discharge Fans** (23 51 13 13)

Note: Includes chimney adapter. Excludes wiring.

**23 51 13 13-0002 Axial Vane Vertical Discharge Fans** (23 51 13 13-0001)

|       |            |    |   |          |        |
|-------|------------|----|---|----------|--------|
| 23 51 | 13 13-0003 | EA | 450 CFM Vertical Discharge Chimney Fan, Axial Vane.....   | 3,558.81 | 311.11 |
| 23 51 | 13 13-0004 | EA | 950 CFM Vertical Discharge Chimney Fan, Axial Vane.....   | 4,029.90 | 339.39 |
| 23 51 | 13 13-0005 | EA | 1,400 CFM Vertical Discharge Chimney Fan, Axial Vane..... | 4,826.05 | 374.75 |
| 23 51 | 13 13-0006 | EA | 1,800 CFM Vertical Discharge Chimney Fan, Axial Vane..... | 6,288.04 | 434.86 |

**23 51 13 13-0007 Centrifugal Impeller Vertical Discharge Fans** (23 51 13 13-0001)

|       |            |    |   |          |        |
|-------|------------|----|---|----------|--------|
| 23 51 | 13 13-0008 | EA | 700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....   | 4,266.10 | 339.39 |
| 23 51 | 13 13-0009 | EA | 1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller..... | 5,188.95 | 374.75 |
| 23 51 | 13 13-0010 | EA | 2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller..... | 6,721.25 | 438.39 |
| 23 51 | 13 13-0011 | EA | 3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller..... | 7,950.10 | 491.42 |

**23 51 13 13-0012 Accessories For Vertical Discharge Fans** (23 51 13 13-0001)

|       |            |    |   |        |        |
|-------|------------|----|---|--------|--------|
| 23 51 | 13 13-0013 | EA | Modulating Fan Controller And Sensor..... | 523.05 | 106.06 |
|-------|------------|----|---|--------|--------|

**23 51 13 16 Vent Dampers** (23 51 13)

**23 51 13 16-0001 Flue Shutter Draft Control Damper, Parallel Blade** (23 51 13 16)

|       |            |    |   |          |       |
|-------|------------|----|---|----------|-------|
| 23 51 | 13 16-0002 | EA | 3" Round Flue Shutter Draft Control Damper..... | 1,042.04 | 62.79 |
| 23 51 | 13 16-0003 | EA | 4" Round Flue Shutter Draft Control Damper..... | 1,141.47 | 66.61 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 13 16-0004 EA 5" Round Flue Shutter Draft Control Damper .....  | 1,258.80                  | 70.70                   |
| 23 51 13 16-0005 EA 6" Round Flue Shutter Draft Control Damper .....  | 1,344.82                  | 75.40                   |
| 23 51 13 16-0006 EA 7" Round Flue Shutter Draft Control Damper .....  | 1,467.50                  | 80.78                   |
| 23 51 13 16-0007 EA 8" Round Flue Shutter Draft Control Damper .....  | 1,559.52                  | 86.98                   |
| 23 51 13 16-0008 EA 10" Round Flue Shutter Draft Control Damper ..... | 1,723.30                  | 94.30                   |
| 23 51 13 16-0009 EA 12" Round Flue Shutter Draft Control Damper ..... | 1,891.95                  | 102.84                  |
| 23 51 13 16-0010 EA 14" Round Flue Shutter Draft Control Damper ..... | 2,114.29                  | 107.83                  |
| 23 51 13 16-0011 EA 16" Round Flue Shutter Draft Control Damper ..... | 2,269.99                  | 113.13                  |
| 23 51 13 16-0012 EA 18" Round Flue Shutter Draft Control Damper ..... | 2,477.68                  | 118.79                  |
| 23 51 13 16-0013 EA 20" Round Flue Shutter Draft Control Damper ..... | 2,956.58                  | 188.08                  |
| 23 51 13 16-0014 EA 22" Round Flue Shutter Draft Control Damper ..... | 3,238.92                  | 199.75                  |
| 23 51 13 16-0015 EA 24" Round Flue Shutter Draft Control Damper ..... | 3,507.43                  | 212.12                  |
| 23 51 13 16-0016 EA 26" Round Flue Shutter Draft Control Damper ..... | 3,569.01                  | 219.20                  |
| 23 51 13 16-0017 EA 28" Round Flue Shutter Draft Control Damper ..... | 3,681.50                  | 226.27                  |
| 23 51 13 16-0018 EA 30" Round Flue Shutter Draft Control Damper ..... | 3,788.60                  | 240.41                  |
| 23 51 13 16-0019 EA 32" Round Flue Shutter Draft Control Damper ..... | 3,951.76                  | 247.32                  |
| 23 51 13 16-0020 EA 34" Round Flue Shutter Draft Control Damper ..... | 4,125.58                  | 261.45                  |
| 23 51 13 16-0021 EA 36" Round Flue Shutter Draft Control Damper ..... | 4,328.52                  | 282.83                  |
| 23 51 13 16-0022 EA 38" Round Flue Shutter Draft Control Damper ..... | 4,544.98                  | 292.55                  |
| 23 51 13 16-0023 EA 40" Round Flue Shutter Draft Control Damper ..... | 4,742.10                  | 296.97                  |
| 23 51 13 16-0024 EA 42" Round Flue Shutter Draft Control Damper ..... | 4,974.78                  | 311.11                  |
| 23 51 13 16-0025 EA 44" Round Flue Shutter Draft Control Damper ..... | 5,208.74                  | 325.25                  |
| 23 51 13 16-0026 EA 46" Round Flue Shutter Draft Control Damper ..... | 5,443.33                  | 339.39                  |
| 23 51 13 16-0027 EA 48" Round Flue Shutter Draft Control Damper ..... | 5,676.97                  | 353.53                  |

**23 51 13 19 Barometric Dampers (23 51 13)**

**23 51 13 19-0001 Barometric Dampers (23 51 13 19)**

|  |                 |       |
|--|-----------------|-------|
| 23 51 13 19-0002 EA 6" x 6" Barometric Damper .....      | 469.63          | 12.28 |
| 23 51 13 19-0003 EA 12" x 12" Barometric Damper .....    | 678.62          | 16.87 |
| 23 51 13 19-0004 EA 18" x 18" Barometric Damper .....    | 912.40          | 26.08 |
| 23 51 13 19-0005 EA 24" x 24" Barometric Damper .....    | 1,105.22        | 49.09 |
| 23 51 13 19-0006 EA 6" Diameter Barometric Damper .....  | 234.93          | 12.28 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>243.52</b>   |       |
| 23 51 13 19-0007 EA 7" Diameter Barometric Damper .....  | 277.77          | 13.80 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>289.30</b>   |       |
| 23 51 13 19-0008 EA 8" Diameter Barometric Damper .....  | 322.30          | 15.34 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>335.50</b>   |       |
| 23 51 13 19-0009 EA 9" Diameter Barometric Damper .....  | 394.41          | 15.34 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>425.00</b>   |       |
| 23 51 13 19-0010 EA 10" Diameter Barometric Damper ..... | 516.20          | 18.41 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>579.02</b>   |       |
| 23 51 13 19-0011 EA 12" Diameter Barometric Damper ..... | 653.34          | 19.94 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>746.77</b>   |       |
| 23 51 13 19-0012 EA 14" Diameter Barometric Damper ..... | 818.91          | 21.48 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>952.41</b>   |       |
| 23 51 13 19-0013 EA 15" Diameter Barometric Damper ..... | 975.76          | 23.01 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>1,144.72</b> |       |
| 23 51 13 19-0014 EA 16" Diameter Barometric Damper ..... | 1,130.42        | 26.08 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>1,336.61</b> |       |
| 23 51 13 19-0015 EA 18" Diameter Barometric Damper ..... | 1,484.11        | 27.61 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>1,785.76</b> |       |
| 23 51 13 19-0016 EA 20" Diameter Barometric Damper ..... | 1,764.28        | 30.68 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>2,137.50</b> |       |
| 23 51 13 19-0017 EA 24" Diameter Barometric Damper ..... | 2,123.56        | 30.68 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>2,597.47</b> |       |
| 23 51 13 19-0018 EA 30" Diameter Barometric Damper ..... | 2,614.81        | 35.28 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>3,219.78</b> |       |
| 23 51 13 19-0019 EA 36" Diameter Barometric Damper ..... | 3,329.72        | 36.82 |
| <i>For Stainless Steel, Add</i>                          |                 |       |
|  | <b>4,139.71</b> |       |

**23 51 16 Fabricated Breechings and Accessories (23 51)**

**23 51 16 00-0001 Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)**

**23 51 16 00-0002 Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)**

|   |       |       |
|---|-------|-------|
| 23 51 16 00-0003 LF 3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe ..... | 37.86 | 12.58 |
| <i>Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness</i>                 |       |       |
| <i>For Aluminum Liner, Add</i>  |       |       |
|   | 0.36  |       |
| <i>For 304 Stainless Steel Liner, Add</i>   |       |       |
|   | 0.49  |       |
| <i>For 2" Wall Instead Of 1", Add</i>   |       |       |
|   | 5.08  |       |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   |       |       |
|   | 9.19  |       |
| 23 51 16 00-0004 LF 4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe ..... | 40.37 | 13.30 |
| <i>Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness</i>                 |       |       |
| <i>For Aluminum Liner, Add</i>  |       |       |
|   | 0.44  |       |
| <i>For 304 Stainless Steel Liner, Add</i>   |       |       |
|   | 0.59  |       |
| <i>For 2" Wall Instead Of 1", Add</i>   |       |       |
|   | 5.62  |       |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   |       |       |
|   | 10.06 |       |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 51 16 00-0005 | LF  |     | 5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....  | 44.39                  | 14.14                |
|                  |     |     | Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.52                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 0.71                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 6.32                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 11.23                  |                      |
| 23 51 16 00-0006 | LF  |     | 6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....  | 48.21                  | 15.14                |
|                  |     |     | Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.60                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 0.82                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 7.01                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 12.37                  |                      |
| 23 51 16 00-0007 | LF  |     | 7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....  | 55.63                  | 16.12                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.88                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 1.21                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 8.78                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 15.15                  |                      |
| 23 51 16 00-0008 | LF  |     | 8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....  | 61.82                  | 17.40                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.99                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 1.34                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 9.76                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 16.84                  |                      |
| 23 51 16 00-0009 | LF  |     | 10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 85.29                  | 18.67                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 2.08                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 2.84                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 16.09                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 26.51                  |                      |
| 23 51 16 00-0010 | LF  |     | 12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 102.22                 | 20.65                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 2.79                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 3.81                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 20.37                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 33.13                  |                      |
| 23 51 16 00-0011 | LF  |     | 14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 139.10                 | 21.49                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 4.69                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 6.39                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 30.95                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 49.13                  |                      |
| 23 51 16 00-0012 | LF  |     | 16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 171.21                 | 22.63                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 6.32                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 8.62                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 40.10                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 62.97                  |                      |
| 23 51 16 00-0013 | LF  |     | 18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 208.43                 | 23.76                |
|                  |     |     | Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 8.16                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 11.13                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 50.53                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 78.79                  |                      |
| 23 51 16 00-0014 | LF  |     | 20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 269.34                 | 37.75                |
|                  |     |     | Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 9.69                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 13.21                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 62.17                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 97.91                  |                      |
| 23 51 16 00-0015 | LF  |     | 22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 322.78                 | 39.88                |
|                  |     |     | Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 12.22                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 16.66                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 76.71                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 120.09                 |                      |
| 23 51 16 00-0016 | LF  |     | 24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 380.77                 | 42.42                |
|                  |     |     | Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 15.06                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 20.54                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 92.85                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 144.62                 |                      |
| 23 51 16 00-0017 | LF  |     | 26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 438.84                 | 43.84                |
|                  |     |     | Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 18.12                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 24.70                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 109.76                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 170.12                 |                      |
| 23 51 16 00-0018 | LF  |     | 28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe..... | 459.71                 | 45.26                |
|                  |     |     | Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness    |                        |                      |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 19.06                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>                               | 26.00                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>                                   | 115.30                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>                             | 178.60                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 16 00-0019 LF 30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 488.77                    | 48.51                   |
| Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness                                    |                           |                         |
| <i>For Aluminum Liner, Add</i>  | 20.22                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 27.58                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 122.42                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 189.68                    |                         |
| 23 51 16 00-0020 LF 32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 550.73                    | 50.35                   |
| <i>For Aluminum Liner, Add</i>  | 23.38                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 31.89                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 140.10                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 216.43                    |                         |
| 23 51 16 00-0021 LF 34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 614.92                    | 52.18                   |
| <i>For Aluminum Liner, Add</i>  | 26.65                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 36.34                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 158.39                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 244.11                    |                         |
| 23 51 16 00-0022 LF 36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 646.93                    | 54.30                   |
| <i>For Aluminum Liner, Add</i>  | 28.12                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 38.35                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 166.96                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 257.22                    |                         |
| 23 51 16 00-0023 LF 38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 700.43                    | 56.56                   |
| <i>For Aluminum Liner, Add</i>  | 30.76                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 41.94                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 181.88                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 279.88                    |                         |
| 23 51 16 00-0024 LF 40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 769.88                    | 58.97                   |
| <i>For Aluminum Liner, Add</i>  | 34.23                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 46.68                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 201.47                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 309.57                    |                         |
| 23 51 16 00-0025 LF 42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 805.44                    | 61.66                   |
| <i>For Aluminum Liner, Add</i>  | 35.81                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 48.83                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 210.77                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 323.87                    |                         |
| 23 51 16 00-0026 LF 44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 889.37                    | 64.63                   |
| <i>For Aluminum Liner, Add</i>  | 40.02                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 54.58                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 234.48                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 359.80                    |                         |
| 23 51 16 00-0027 LF 46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 964.48                    | 67.88                   |
| <i>For Aluminum Liner, Add</i>  | 43.71                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 59.61                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 255.40                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 391.58                    |                         |
| 23 51 16 00-0028 LF 48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....             | 1,059.20                  | 71.42                   |
| <i>For Aluminum Liner, Add</i>  | 48.45                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 66.07                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 282.10                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 432.07                    |                         |
| <b>23 51 16 00-0029 90 Degree Elbows</b> <small>(23 51 16 00-0001)</small>                              |                           |                         |
| 23 51 16 00-0030 EA 3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe ..... | 92.02                     | 25.17                   |
| <i>For Aluminum Liner, Add</i>  | 1.63                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 2.23                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 15.14                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 25.82                     |                         |
| 23 51 16 00-0031 EA 4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe ..... | 101.33                    | 26.58                   |
| <i>For Aluminum Liner, Add</i>  | 1.93                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 2.63                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 17.14                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 29.02                     |                         |
| 23 51 16 00-0032 EA 5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe ..... | 112.19                    | 28.28                   |
| <i>For Aluminum Liner, Add</i>  | 2.30                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 3.14                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 19.58                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 32.89                     |                         |
| 23 51 16 00-0033 EA 6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe ..... | 123.40                    | 30.12                   |
| <i>For Aluminum Liner, Add</i>  | 2.67                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 3.64                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 22.06                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 36.83                     |                         |
| 23 51 16 00-0034 EA 7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe ..... | 145.14                    | 32.24                   |
| <i>For Aluminum Liner, Add</i>  | 3.57                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 4.87                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 27.51                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 45.28                     |                         |
| 23 51 16 00-0035 EA 8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe ..... | 168.37                    | 34.79                   |
| <i>For Aluminum Liner, Add</i>  | 4.48                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>   | 6.10                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>   | 33.12                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 54.02                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 23 51 16 00-0036        | EA  |     | 10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 281.76                 | 37.75                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 10.30                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 14.04                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 65.62                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 103.15                 |                      |
| 23 51 16 00-0037        | EA  |     | 12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 338.84                 | 41.15                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 12.98                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 17.70                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 81.09                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 126.78                 |                      |
| 23 51 16 00-0038        | EA  |     | 14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 434.12                 | 43.14                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 17.95                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 24.48                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 108.69                 |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 168.42                 |                      |
| 23 51 16 00-0039        | EA  |     | 16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 529.62                 | 45.26                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 22.92                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 31.25                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 136.30                 |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 210.10                 |                      |
| 23 51 16 00-0040        | EA  |     | 18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 679.16                 | 47.66                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 30.80                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 42.00                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 179.91                 |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 275.82                 |                      |
| 23 51 16 00-0041        | EA  |     | 20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 961.85                 | 75.37                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 42.53                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 57.99                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 250.83                 |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 385.67                 |                      |
| 23 51 16 00-0042        | EA  |     | 22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 1,257.80               | 79.89                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 58.19                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 79.35                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 337.39                 |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 516.08                 |                      |
| 23 51 16 00-0043        | EA  |     | 24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 1,416.91               | 84.85                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 66.25                  |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 90.34                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 382.61                 |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 584.52                 |                      |
| <b>23 51 16 00-0044</b> |     |     | <b>45 Degree Elbows</b> <small>(23 51 16 00-0001)</small>                           |                        |                      |
| 23 51 16 00-0045        | EA  |     | 3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....  | 79.88                  | 25.17                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 0.94                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 1.28                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 11.41                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 20.25                  |                      |
| 23 51 16 00-0046        | EA  |     | 4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....  | 86.75                  | 26.58                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 1.11                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 1.51                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 12.70                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 22.39                  |                      |
| 23 51 16 00-0047        | EA  |     | 5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....  | 94.42                  | 28.28                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 1.30                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 1.78                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 14.18                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 24.81                  |                      |
| 23 51 16 00-0048        | EA  |     | 6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....  | 103.78                 | 30.12                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 1.56                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 2.13                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 16.05                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 27.85                  |                      |
| 23 51 16 00-0049        | EA  |     | 7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....  | 121.46                 | 32.24                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 2.24                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 3.05                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 20.28                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 34.46                  |                      |
| 23 51 16 00-0050        | EA  |     | 8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....  | 133.78                 | 34.79                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 2.57                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 3.51                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 22.74                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 38.46                  |                      |
| 23 51 16 00-0051        | EA  |     | 10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 211.30                 | 37.75                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 6.44                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 8.78                   |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 44.53                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 71.51                  |                      |
| 23 51 16 00-0052        | EA  |     | 12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 250.36                 | 41.15                |
|                         |     |     | <i>For Aluminum Liner, Add</i>  | 8.11                   |                      |
|                         |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 11.06                  |                      |
|                         |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 54.54                  |                      |
|                         |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 86.95                  |                      |



Heating, Ventilating, and Air-Conditioning (HVAC)

23

Central Heating Equipment

23 50

Breechings, Chimneys, and Stacks

23 51

23

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 'EA 14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe' with associated costs.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 16 00-0070 EA 48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 3,252.79                  | 141.41                  |
| For Aluminum Liner, Add   | 159.47                    |                         |
| For 304 Stainless Steel Liner, Add  | 217.46                    |                         |
| For 2" Wall Instead Of 1", Add  | 905.18                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 1,375.43                  |                         |
| <b>23 51 16 00-0071 Tees</b> <small>(23 51 16 00-0001)</small>  |                           |                         |
| 23 51 16 00-0072 EA 3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....              | 125.63                    | 33.51                   |
| For Aluminum Liner, Add   | 2.29                      |                         |
| For 304 Stainless Steel Liner, Add  | 3.13                      |                         |
| For 2" Wall Instead Of 1", Add  | 20.91                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 35.55                     |                         |
| 23 51 16 00-0073 EA 4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....              | 130.73                    | 34.79                   |
| For Aluminum Liner, Add   | 2.41                      |                         |
| For 304 Stainless Steel Liner, Add  | 3.28                      |                         |
| For 2" Wall Instead Of 1", Add  | 21.82                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 37.08                     |                         |
| 23 51 16 00-0074 EA 5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....              | 136.30                    | 36.21                   |
| For Aluminum Liner, Add   | 2.52                      |                         |
| For 304 Stainless Steel Liner, Add  | 3.43                      |                         |
| For 2" Wall Instead Of 1", Add  | 22.79                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 38.71                     |                         |
| 23 51 16 00-0075 EA 6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....              | 145.20                    | 37.75                   |
| For Aluminum Liner, Add   | 2.80                      |                         |
| For 304 Stainless Steel Liner, Add  | 3.82                      |                         |
| For 2" Wall Instead Of 1", Add  | 24.69                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 41.76                     |                         |
| 23 51 16 00-0076 EA 7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....              | 168.62                    | 39.31                   |
| For Aluminum Liner, Add   | 3.86                      |                         |
| For 304 Stainless Steel Liner, Add  | 5.27                      |                         |
| For 2" Wall Instead Of 1", Add  | 30.90                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 51.27                     |                         |
| 23 51 16 00-0077 EA 8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....              | 180.13                    | 41.15                   |
| For Aluminum Liner, Add   | 4.25                      |                         |
| For 304 Stainless Steel Liner, Add  | 5.80                      |                         |
| For 2" Wall Instead Of 1", Add  | 33.48                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 55.36                     |                         |
| 23 51 16 00-0078 EA 10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 317.33                    | 43.14                   |
| For Aluminum Liner, Add   | 11.53                     |                         |
| For 304 Stainless Steel Liner, Add  | 15.72                     |                         |
| For 2" Wall Instead Of 1", Add  | 73.65                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 115.86                    |                         |
| 23 51 16 00-0079 EA 12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 365.40                    | 45.26                   |
| For Aluminum Liner, Add   | 13.88                     |                         |
| For 304 Stainless Steel Liner, Add  | 18.92                     |                         |
| For 2" Wall Instead Of 1", Add  | 87.00                     |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 136.16                    |                         |
| 23 51 16 00-0080 EA 14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 536.70                    | 50.35                   |
| For Aluminum Liner, Add   | 22.61                     |                         |
| For 304 Stainless Steel Liner, Add  | 30.83                     |                         |
| For 2" Wall Instead Of 1", Add  | 135.87                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 210.10                    |                         |
| 23 51 16 00-0081 EA 16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 723.29                    | 56.56                   |
| For Aluminum Liner, Add   | 32.01                     |                         |
| For 304 Stainless Steel Liner, Add  | 43.65                     |                         |
| For 2" Wall Instead Of 1", Add  | 188.72                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 290.14                    |                         |
| 23 51 16 00-0082 EA 18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 894.09                    | 64.63                   |
| For Aluminum Liner, Add   | 40.29                     |                         |
| For 304 Stainless Steel Liner, Add  | 54.94                     |                         |
| For 2" Wall Instead Of 1", Add  | 235.91                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 361.95                    |                         |
| 23 51 16 00-0083 EA 20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 1,186.37                  | 79.89                   |
| For Aluminum Liner, Add   | 54.28                     |                         |
| For 304 Stainless Steel Liner, Add  | 74.01                     |                         |
| For 2" Wall Instead Of 1", Add  | 316.01                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 483.99                    |                         |
| 23 51 16 00-0084 EA 22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 1,491.94                  | 104.36                  |
| For Aluminum Liner, Add   | 67.71                     |                         |
| For 304 Stainless Steel Liner, Add  | 92.33                     |                         |
| For 2" Wall Instead Of 1", Add  | 395.40                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 606.14                    |                         |
| 23 51 16 00-0085 EA 24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 1,710.26                  | 110.31                  |
| For Aluminum Liner, Add   | 78.90                     |                         |
| For 304 Stainless Steel Liner, Add  | 107.59                    |                         |
| For 2" Wall Instead Of 1", Add  | 457.92                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 700.67                    |                         |
| 23 51 16 00-0086 EA 26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....             | 2,331.83                  | 118.79                  |
| For Aluminum Liner, Add   | 111.91                    |                         |
| For 304 Stainless Steel Liner, Add  | 152.61                    |                         |
| For 2" Wall Instead Of 1", Add  | 640.13                    |                         |
| For 3" To 4" Wall Instead Of 1", Add  | 975.05                    |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Central Heating Equipment</b>                         | <b>23 50</b> |
| <b>Breechings, Chimneys, and Stacks</b>                  | <b>23 51</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 51 16 00-0087 EA 28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 2,597.58                  | 123.45                  |
| <i>For Aluminum Liner, Add</i>   | 125.90                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 171.68                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 717.57                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,091.79                  |                         |
| 23 51 16 00-0088 EA 30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 3,217.80                  | 130.10                  |
| <i>For Aluminum Liner, Add</i>   | 137.09                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 186.94                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 780.29                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,186.70                  |                         |
| 23 51 16 00-0089 EA 32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 3,238.79                  | 135.76                  |
| <i>For Aluminum Liner, Add</i>   | 159.47                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 217.46                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 903.78                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,372.63                  |                         |
| 23 51 16 00-0090 EA 34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 3,303.90                  | 141.41                  |
| <i>For Aluminum Liner, Add</i>   | 162.27                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 221.28                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 920.46                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,398.37                  |                         |
| 23 51 16 00-0091 EA 36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 3,836.37                  | 150.89                  |
| <i>For Aluminum Liner, Add</i>   | 190.25                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 259.43                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,075.45                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,632.04                  |                         |
| 23 51 16 00-0092 EA 38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 3,934.34                  | 169.70                  |
| <i>For Aluminum Liner, Add</i>   | 193.05                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 263.24                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,095.42                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,664.35                  |                         |
| 23 51 16 00-0093 EA 40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 4,300.10                  | 194.02                  |
| <i>For Aluminum Liner, Add</i>   | 209.83                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 286.14                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,193.04                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,813.81                  |                         |
| 23 51 16 00-0094 EA 42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 4,736.88                  | 226.27                  |
| <i>For Aluminum Liner, Add</i>   | 229.42                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 312.84                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,307.93                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 1,990.18                  |                         |
| 23 51 16 00-0095 EA 44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 5,163.15                  | 254.55                  |
| <i>For Aluminum Liner, Add</i>   | 249.00                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 339.55                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,421.77                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 2,164.45                  |                         |
| 23 51 16 00-0096 EA 46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 5,642.24                  | 263.03                  |
| <i>For Aluminum Liner, Add</i>   | 274.18                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 373.88                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,561.25                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 2,374.73                  |                         |
| 23 51 16 00-0097 EA 48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....      | 5,968.89                  | 271.52                  |
| <i>For Aluminum Liner, Add</i>   | 290.97                    |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 396.77                    |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 1,654.95                  |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 2,516.36                  |                         |
| <b>23 51 16 00-0098 Vent Top Caps (23 51 16 00-0001)</b>   |                           |                         |
| 23 51 16 00-0099 EA 3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....  | 64.96                     | 19.65                   |
| <i>For Aluminum Liner, Add</i>   | 0.87                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 1.18                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 9.65                      |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 16.93                     |                         |
| 23 51 16 00-0100 EA 4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....  | 68.05                     | 20.65                   |
| <i>For Aluminum Liner, Add</i>   | 0.91                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 1.24                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 10.12                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 17.76                     |                         |
| 23 51 16 00-0101 EA 6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....  | 85.35                     | 22.63                   |
| <i>For Aluminum Liner, Add</i>   | 1.58                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 2.16                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 14.29                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 24.27                     |                         |
| 23 51 16 00-0102 EA 8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....  | 91.58                     | 25.17                   |
| <i>For Aluminum Liner, Add</i>   | 1.58                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 2.16                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 14.92                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 25.51                     |                         |
| 23 51 16 00-0103 EA 10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe ..... | 108.89                    | 26.58                   |
| <i>For Aluminum Liner, Add</i>   | 2.33                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 3.18                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 19.37                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 32.38                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 51 16 00-0104 | EA  |     | 12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 126.66                 | 28.28                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 3.08                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 4.20                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 23.86                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 39.32                  |                      |
| 23 51 16 00-0105 | EA  |     | 16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 277.10                 | 32.24                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 10.80                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 14.73                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 66.98                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 104.51                 |                      |
| 23 51 16 00-0106 | EA  |     | 18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 503.86                 | 40.44                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 22.16                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 30.22                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 130.96                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 201.49                 |                      |
| 23 51 16 00-0107 | EA  |     | 20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 914.75                 | 48.51                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 43.65                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 59.52                  |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 250.19                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 381.34                 |                      |
| 23 51 16 00-0108 | EA  |     | 24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 1,512.66               | 67.88                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 73.86                  |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 100.72                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 419.85                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 638.26                 |                      |
| 23 51 16 00-0109 | EA  |     | 26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 2,213.30               | 71.42                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 111.91                 |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 152.61                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 628.28                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 951.35                 |                      |
| 23 51 16 00-0110 | EA  |     | 28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 2,477.63               | 75.37                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 125.90                 |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 171.68                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 705.58                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 1,067.80               |                      |
| 23 51 16 00-0111 | EA  |     | 30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 2,794.03               | 79.89                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 142.69                 |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 194.57                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 798.26                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 1,207.38               |                      |
| 23 51 16 00-0112 | EA  |     | 32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 3,959.11               | 84.85                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 151.08                 |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 206.02                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 845.29                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 1,278.55               |                      |
| 23 51 16 00-0113 | EA  |     | 34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 3,125.84               | 90.51                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 159.47                 |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 217.46                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 892.48                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 1,350.04               |                      |
| 23 51 16 00-0114 | EA  |     | 36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....           | 3,345.30               | 97.01                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 170.66                 |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 232.72                 |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 955.13                 |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 1,444.81               |                      |
| 23 51 16 00-0115 |     |     | <b>Wall Thimbles</b> <small>(23 51 16 00-0001)</small>                                |                        |                      |
| 23 51 16 00-0116 | EA  |     | 3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....       | 28.24                  | 10.61                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.10                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 0.14                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 3.19                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 6.10                   |                      |
| 23 51 16 00-0117 | EA  |     | 4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....       | 35.93                  | 13.58                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.10                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 0.14                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 3.97                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 7.65                   |                      |
| 23 51 16 00-0118 | EA  |     | 5" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe..... | 47.90                  | 18.24                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.13                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 0.17                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 5.25                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 10.15                  |                      |
| 23 51 16 00-0119 | EA  |     | 7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe..... | 59.80                  | 22.63                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.18                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 0.24                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 6.63                   |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 12.77                  |                      |
| 23 51 16 00-0120 | EA  |     | 10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....      | 84.70                  | 30.54                |
|                  |     |     | <i>For Aluminum Liner, Add</i>  | 0.46                   |                      |
|                  |     |     | <i>For 304 Stainless Steel Liner, Add</i>   | 0.63                   |                      |
|                  |     |     | <i>For 2" Wall Instead Of 1", Add</i>   | 10.14                  |                      |
|                  |     |     | <i>For 3" To 4" Wall Instead Of 1", Add</i>   | 19.03                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 51 16 00-0121 EA 12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....            | 106.55                    | 37.90                   |
| <i>For Aluminum Liner, Add</i>   | 0.65                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 0.89                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 13.02                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 24.26                     |                         |
| 23 51 16 00-0122 EA 14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....     | 133.13                    | 45.26                   |
| <i>For Aluminum Liner, Add</i>   | 1.10                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 1.50                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 17.31                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 31.63                     |                         |
| 23 51 16 00-0123 EA 18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....     | 170.14                    | 53.74                   |
| <i>For Aluminum Liner, Add</i>   | 1.97                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 2.69                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 24.17                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 42.98                     |                         |
| 23 51 16 00-0124 EA 22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....     | 220.48                    | 59.40                   |
| <i>For Aluminum Liner, Add</i>   | 3.96                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 5.40                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 36.45                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 62.09                     |                         |
| <br><b>23 51 16 00-0125 Adjustable Roof Flashing (23 51 16 00-0001)</b>  |                           |                         |
| 23 51 16 00-0126 EA 3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....  | 74.50                     | 25.17                   |
| <i>For Aluminum Liner, Add</i>   | 0.64                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 0.88                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 9.79                      |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 17.83                     |                         |
| 23 51 16 00-0127 EA 4" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....  | 81.65                     | 26.58                   |
| <i>For Aluminum Liner, Add</i>   | 0.83                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 1.13                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 11.18                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 20.10                     |                         |
| 23 51 16 00-0128 EA 6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....  | 100.60                    | 30.12                   |
| <i>For Aluminum Liner, Add</i>   | 1.39                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 1.89                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 15.11                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 26.43                     |                         |
| 23 51 16 00-0129 EA 8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....  | 121.47                    | 34.79                   |
| <i>For Aluminum Liner, Add</i>   | 1.90                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 2.59                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 19.05                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 32.92                     |                         |
| 23 51 16 00-0130 EA 10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 188.95                    | 37.75                   |
| <i>For Aluminum Liner, Add</i>   | 5.20                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 7.10                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 37.82                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 61.45                     |                         |
| 23 51 16 00-0131 EA 12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 222.86                    | 41.15                   |
| <i>For Aluminum Liner, Add</i>   | 6.60                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 9.00                      |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 46.30                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 74.58                     |                         |
| 23 51 16 00-0132 EA 14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 260.65                    | 45.26                   |
| <i>For Aluminum Liner, Add</i>   | 8.11                      |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 11.06                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 55.57                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 89.01                     |                         |
| 23 51 16 00-0133 EA 16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 308.99                    | 50.35                   |
| <i>For Aluminum Liner, Add</i>   | 10.07                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 13.73                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 67.53                     |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 107.58                    |                         |
| 23 51 16 00-0134 EA 18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 456.86                    | 56.56                   |
| <i>For Aluminum Liner, Add</i>   | 17.35                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 23.65                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 108.76                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 170.22                    |                         |
| 23 51 16 00-0135 EA 20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 510.04                    | 75.37                   |
| <i>For Aluminum Liner, Add</i>   | 17.68                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 24.11                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 115.30                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 182.38                    |                         |
| 23 51 16 00-0136 EA 22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 649.43                    | 97.01                   |
| <i>For Aluminum Liner, Add</i>   | 22.38                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 30.52                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 146.33                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 231.62                    |                         |
| 23 51 16 00-0137 EA 24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... | 771.17                    | 113.13                  |
| <i>For Aluminum Liner, Add</i>   | 26.86                     |                         |
| <i>For 304 Stainless Steel Liner, Add</i>  | 36.63                     |                         |
| <i>For 2" Wall Instead Of 1", Add</i>  | 174.79                    |                         |
| <i>For 3" To 4" Wall Instead Of 1", Add</i>  | 276.32                    |                         |
| <br><b>23 51 16 00-0138 Galvanized Storm Collars (23 51 16 00-0001)</b>  |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 51 16 00-0139 EA 3" Round Galvanized Storm Collar, Double Wall.....                                 | 29.81                     | 10.61                   |
| For Aluminum Liner, Add  | 0.19                      |                         |
| For 304 Stainless Steel Liner, Add   | 0.25                      |                         |
| For 2" Wall Instead Of 1", Add   | 3.66                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 6.81                      |                         |
| 23 51 16 00-0140 EA 4" Round Galvanized Storm Collar, Double Wall.....                                 | 37.82                     | 13.58                   |
| For Aluminum Liner, Add  | 0.21                      |                         |
| For 304 Stainless Steel Liner, Add   | 0.29                      |                         |
| For 2" Wall Instead Of 1", Add   | 4.56                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 8.53                      |                         |
| 23 51 16 00-0141 EA 5" Round Galvanized Storm Collar, Double Wall.....                                 | 44.42                     | 15.84                   |
| For Aluminum Liner, Add  | 0.27                      |                         |
| For 304 Stainless Steel Liner, Add   | 0.36                      |                         |
| For 2" Wall Instead Of 1", Add   | 5.41                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 10.09                     |                         |
| 23 51 16 00-0142 EA 6" Round Galvanized Storm Collar, Double Wall.....                                 | 51.05                     | 18.10                   |
| For Aluminum Liner, Add  | 0.32                      |                         |
| For 304 Stainless Steel Liner, Add   | 0.43                      |                         |
| For 2" Wall Instead Of 1", Add   | 6.26                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 11.66                     |                         |
| 23 51 16 00-0143 EA 7" Or 8" Round Galvanized Storm Collar, Double Wall.....                           | 64.27                     | 22.63                   |
| For Aluminum Liner, Add  | 0.42                      |                         |
| For 304 Stainless Steel Liner, Add   | 0.58                      |                         |
| For 2" Wall Instead Of 1", Add   | 7.97                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 14.78                     |                         |
| 23 51 16 00-0144 EA 10" Round Galvanized Storm Collar, Double Wall.....                                | 88.45                     | 30.54                   |
| For Aluminum Liner, Add  | 0.66                      |                         |
| For 304 Stainless Steel Liner, Add   | 0.91                      |                         |
| For 2" Wall Instead Of 1", Add   | 11.26                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 20.71                     |                         |
| 23 51 16 00-0145 EA 12" Round Galvanized Storm Collar, Double Wall.....                                | 109.27                    | 37.90                   |
| For Aluminum Liner, Add  | 0.80                      |                         |
| For 304 Stainless Steel Liner, Add   | 1.09                      |                         |
| For 2" Wall Instead Of 1", Add   | 13.83                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 25.48                     |                         |
| 23 51 16 00-0146 EA 14" Or 16" Round Galvanized Storm Collar, Double Wall.....                         | 137.75                    | 45.26                   |
| For Aluminum Liner, Add  | 1.35                      |                         |
| For 304 Stainless Steel Liner, Add   | 1.85                      |                         |
| For 2" Wall Instead Of 1", Add   | 18.70                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 33.71                     |                         |
| 23 51 16 00-0147 EA 18" Or 20" Round Galvanized Storm Collar, Double Wall.....                         | 178.90                    | 53.74                   |
| For Aluminum Liner, Add  | 2.45                      |                         |
| For 304 Stainless Steel Liner, Add   | 3.34                      |                         |
| For 2" Wall Instead Of 1", Add   | 26.80                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 46.92                     |                         |
| 23 51 16 00-0148 EA 22" Or 24" Round Galvanized Storm Collar, Double Wall.....                         | 242.40                    | 59.40                   |
| For Aluminum Liner, Add  | 5.17                      |                         |
| For 304 Stainless Steel Liner, Add   | 7.04                      |                         |
| For 2" Wall Instead Of 1", Add   | 43.02                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 71.96                     |                         |
| <b>23 51 16 00-0149 Oval Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)</b>             |                           |                         |
| <b>23 51 16 00-0150 Oval Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0149)</b>                  |                           |                         |
| 23 51 16 00-0151 LF 4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....              | 47.82                     | 13.30                   |
| For 2" Wall Instead Of 1", Add   | 7.70                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 13.21                     |                         |
| 23 51 16 00-0152 LF 5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....              | 52.41                     | 14.14                   |
| For 2" Wall Instead Of 1", Add   | 8.71                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 14.81                     |                         |
| 23 51 16 00-0153 LF 6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....              | 57.83                     | 15.14                   |
| For 2" Wall Instead Of 1", Add   | 9.80                      |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 16.59                     |                         |
| <b>23 51 16 00-0154 45 Degree Elbows (23 51 16 00-0149)</b>  |                           |                         |
| 23 51 16 00-0155 EA 4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 103.93                    | 27.58                   |
| For 2" Wall Instead Of 1", Add   | 17.38                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 29.52                     |                         |
| 23 51 16 00-0156 EA 5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 121.30                    | 32.24                   |
| For 2" Wall Instead Of 1", Add   | 20.27                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 34.43                     |                         |
| 23 51 16 00-0157 EA 6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe..... | 143.42                    | 36.49                   |
| For 2" Wall Instead Of 1", Add   | 24.78                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 41.73                     |                         |
| 23 51 16 00-0158 EA 4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....     | 105.68                    | 27.58                   |
| For 2" Wall Instead Of 1", Add   | 17.91                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 30.31                     |                         |
| 23 51 16 00-0159 EA 5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....     | 125.55                    | 32.24                   |
| For 2" Wall Instead Of 1", Add   | 21.54                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 36.35                     |                         |
| 23 51 16 00-0160 EA 6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....     | 146.17                    | 36.49                   |
| For 2" Wall Instead Of 1", Add   | 25.60                     |                         |
| For 3" To 4" Wall Instead Of 1", Add   | 42.97                     |                         |



|   | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST            | DEMOLITION UNIT COST |
|---|-------|-----|-----|---|-----------------------------------|----------------------|
| <b>23 51 16 00-0161 Tees</b> <small>(23 51 16 00-0149)</small>                                  |       |     |     |   |                                   |                      |
| 23 51 16 00-0162  | EA    |     |     | 4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>   | 171.42<br>30.47<br>50.95          | 41.86                |
| 23 51 16 00-0163  | EA    |     |     | 4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>   | 174.17<br>31.30<br>52.19          | 41.86                |
| 23 51 16 00-0164  | EA    |     |     | 5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>   | 200.10<br>35.99<br>59.99          | 48.08                |
| 23 51 16 00-0165  | EA    |     |     | 6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>   | 228.30<br>41.55<br>69.07          | 53.88                |
| <b>23 51 16 00-0166 Tops/Caps And Adjustable Flashing</b> <small>(23 51 16 00-0149)</small>     |       |     |     |   |                                   |                      |
| 23 51 16 00-0167  | EA    |     |     | 4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>  | 64.28<br>12.47<br>20.41           | 13.58                |
| 23 51 16 00-0168  | EA    |     |     | 6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>  | 98.67<br>20.48<br>33.00           | 18.24                |
| 23 51 16 00-0169  | EA    |     |     | 4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>   | 53.54<br>9.25<br>15.58            | 13.58                |
| 23 51 16 00-0170  | EA    |     |     | 6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>   | 88.56<br>17.44<br>28.45           | 18.24                |
| <b>23 51 16 00-0171 Storm Collars</b> <small>(23 51 16 00-0149)</small>                         |       |     |     |   |                                   |                      |
| 23 51 16 00-0172  | EA    |     |     | 4" Oval Galvanized Storm Collar, Double Wall .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>  | 37.82<br>4.56<br>8.53             | 13.58                |
| 23 51 16 00-0173  | EA    |     |     | 5" Oval Galvanized Storm Collar, Double Wall .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>  | 44.42<br>5.41<br>10.09            | 15.84                |
| 23 51 16 00-0174  | EA    |     |     | 6" Oval Galvanized Storm Collar, Double Wall .....<br><i>For 2" Wall Instead Of 1", Add</i><br><i>For 3" To 4" Wall Instead Of 1", Add</i>  | 51.05<br>6.26<br>11.66            | 18.10                |
| <b>23 51 16 00-0175 Round Double Wall Flue/Vent Pipe And Fittings</b> <small>(23 51 16)</small> |       |     |     |   |                                   |                      |
| Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.       |       |     |     |   |                                   |                      |
| <b>23 51 16 00-0176 Round Double Wall Flue/Vent Pipe</b> <small>(23 51 16 00-0175)</small>      |       |     |     |   |                                   |                      |
| Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.       |       |     |     |   |                                   |                      |
| 23 51 16 00-0177  | LF    |     |     | 6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 117.84<br>12.81<br>8.01<br>16.01  | 15.14                |
| 23 51 16 00-0178  | LF    |     |     | 8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 141.30<br>15.64<br>9.77<br>19.55  | 17.40                |
| 23 51 16 00-0179  | LF    |     |     | 10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> | 156.57<br>17.52<br>10.95<br>21.90 | 18.81                |
| 23 51 16 00-0180  | LF    |     |     | 12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> | 176.22<br>19.97<br>12.48<br>24.96 | 20.51                |
| 23 51 16 00-0181  | LF    |     |     | 14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> | 197.54<br>22.98<br>14.37<br>28.73 | 21.49                |
| 23 51 16 00-0182  | LF    |     |     | 16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> | 208.55<br>24.30<br>15.19<br>30.38 | 22.63                |
| 23 51 16 00-0183  | LF    |     |     | 18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket .....<br><i>For 316 Stainless Steel, Add</i><br><i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i><br><i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> | 230.34<br>27.32<br>17.07<br>34.15 | 23.90                |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 16 00-0184 LF 20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 289.78                    | 37.75                   |
| For 316 Stainless Steel, Add  | 31.27                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 19.55                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 39.09                     |                         |
| 23 51 16 00-0185 LF 24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 358.05                    | 42.42                   |
| For 316 Stainless Steel, Add  | 40.32                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 25.20                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 50.39                     |                         |
| 23 51 16 00-0186 LF 28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 402.73                    | 45.26                   |
| For 316 Stainless Steel, Add  | 46.34                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 28.97                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 57.93                     |                         |
| 23 51 16 00-0187 LF 32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 450.54                    | 50.21                   |
| For 316 Stainless Steel, Add  | 52.00                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 32.50                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 64.99                     |                         |
| 23 51 16 00-0188 LF 36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 500.59                    | 54.30                   |
| For 316 Stainless Steel, Add  | 58.40                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 36.50                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 73.00                     |                         |
| 23 51 16 00-0189 LF 42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 571.43                    | 61.80                   |
| For 316 Stainless Steel, Add  | 66.69                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 41.68                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 83.36                     |                         |
| 23 51 16 00-0190 LF 48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....             | 668.71                    | 71.56                   |
| For 316 Stainless Steel, Add  | 78.37                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 48.98                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 97.96                     |                         |
| <b>23 51 16 00-0191 90 Degree Elbows</b> <small>(23 51 16 00-0175)</small>  |                           |                         |
| 23 51 16 00-0192 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....  | 532.57                    | 31.25                   |
| For 316 Stainless Steel, Add  | 90.90                     |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 45.45                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 90.90                     |                         |
| 23 51 16 00-0193 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....  | 588.55                    | 34.79                   |
| For 316 Stainless Steel, Add  | 100.32                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 50.16                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 100.32                    |                         |
| 23 51 16 00-0194 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 668.96                    | 37.75                   |
| For 316 Stainless Steel, Add  | 114.92                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 57.46                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 114.92                    |                         |
| 23 51 16 00-0195 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 755.11                    | 41.15                   |
| For 316 Stainless Steel, Add  | 130.46                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 65.23                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 130.46                    |                         |
| 23 51 16 00-0196 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 873.09                    | 43.14                   |
| For 316 Stainless Steel, Add  | 153.06                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 76.53                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 153.06                    |                         |
| 23 51 16 00-0197 EA 16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 960.85                    | 45.26                   |
| For 316 Stainless Steel, Add  | 169.55                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 84.77                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 169.55                    |                         |
| 23 51 16 00-0198 EA 18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 1,108.09                  | 47.66                   |
| For 316 Stainless Steel, Add  | 197.81                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 98.90                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 197.81                    |                         |
| 23 51 16 00-0199 EA 20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 1,295.34                  | 75.37                   |
| For 316 Stainless Steel, Add  | 221.36                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 110.68                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 221.36                    |                         |
| 23 51 16 00-0200 EA 24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 1,589.70                  | 84.85                   |
| For 316 Stainless Steel, Add  | 275.52                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 137.76                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 275.52                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 51 16 00-0201 EA 28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 1,921.76                  | 90.51                   |
| <i>For 316 Stainless Steel, Add</i>  | 339.10                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 169.55                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 339.10                    |                         |
| 23 51 16 00-0202 EA 32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 2,526.53                  | 96.87                   |
| <i>For 316 Stainless Steel, Add</i>  | 456.84                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 228.42                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 456.84                    |                         |
| 23 51 16 00-0203 EA 36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 2,873.16                  | 113.13                  |
| <i>For 316 Stainless Steel, Add</i>  | 518.07                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 259.03                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 518.07                    |                         |
| 23 51 16 00-0204 EA 42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 4,193.96                  | 123.45                  |
| <i>For 316 Stainless Steel, Add</i>  | 777.10                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 388.55                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 777.10                    |                         |
| 23 51 16 00-0205 EA 48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 5,225.68                  | 135.76                  |
| <i>For 316 Stainless Steel, Add</i>  | 977.26                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 488.63                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 977.26                    |                         |
| <b>23 51 16 00-0206 45 Degree Elbows</b> <small>(23 51 16 00-0175)</small>   |                           |                         |
| 23 51 16 00-0207 EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket .....  | 360.32                    | 30.12                   |
| <i>For 316 Stainless Steel, Add</i>  | 56.99                     |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 28.49                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 56.99                     |                         |
| 23 51 16 00-0208 EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket .....  | 411.94                    | 34.79                   |
| <i>For 316 Stainless Steel, Add</i>  | 64.99                     |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 32.50                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 64.99                     |                         |
| 23 51 16 00-0209 EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 456.99                    | 37.75                   |
| <i>For 316 Stainless Steel, Add</i>  | 72.53                     |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 36.27                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 72.53                     |                         |
| 23 51 16 00-0210 EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 519.64                    | 41.15                   |
| <i>For 316 Stainless Steel, Add</i>  | 83.36                     |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 41.68                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 83.36                     |                         |
| 23 51 16 00-0211 EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 583.45                    | 43.14                   |
| <i>For 316 Stainless Steel, Add</i>  | 95.14                     |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 47.57                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 95.14                     |                         |
| 23 51 16 00-0212 EA 16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 652.37                    | 45.26                   |
| <i>For 316 Stainless Steel, Add</i>  | 107.85                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 53.93                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 107.85                    |                         |
| 23 51 16 00-0213 EA 18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 728.96                    | 47.66                   |
| <i>For 316 Stainless Steel, Add</i>  | 121.98                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 60.99                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 121.98                    |                         |
| 23 51 16 00-0214 EA 20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 885.60                    | 75.37                   |
| <i>For 316 Stainless Steel, Add</i>  | 139.41                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 69.70                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 139.41                    |                         |
| 23 51 16 00-0215 EA 24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 1,106.97                  | 84.85                   |
| <i>For 316 Stainless Steel, Add</i>  | 178.97                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 89.48                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 178.97                    |                         |
| 23 51 16 00-0216 EA 28" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 1,238.85                  | 90.51                   |
| <i>For 316 Stainless Steel, Add</i>  | 202.52                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 101.26                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 202.52                    |                         |
| 23 51 16 00-0217 EA 32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket ..... | 1,596.37                  | 96.87                   |
| <i>For 316 Stainless Steel, Add</i>  | 270.81                    |                         |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>  | 135.40                    |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>  | 270.81                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 23 51 16 00-0218        | EA  |     | 36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 2,107.83               | 113.13               |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 365.00                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 182.50                 |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 365.00                 |                      |
| 23 51 16 00-0219        | EA  |     | 42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 2,781.06               | 123.45               |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 494.52                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 247.26                 |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 494.52                 |                      |
| 23 51 16 00-0220        | EA  |     | 48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 3,695.07               | 135.76               |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 671.13                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 335.57                 |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 671.13                 |                      |
| <b>23 51 16 00-0221</b> |     |     | <b>Tees</b> <small>(23 51 16 00-0175)</small>   |                        |                      |
| 23 51 16 00-0222        | EA  |     | 6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....              | 393.45                 | 37.75                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 65.80                  |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 92.85                  |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 29.91                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 59.81                  |                      |
| 23 51 16 00-0223        | EA  |     | 8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....              | 446.63                 | 41.15                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 75.64                  |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 104.75                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 34.38                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 68.76                  |                      |
| 23 51 16 00-0224        | EA  |     | 10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 510.41                 | 43.14                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 88.59                  |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 118.24                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 40.27                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 80.54                  |                      |
| 23 51 16 00-0225        | EA  |     | 12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 584.07                 | 45.26                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 103.61                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 133.78                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 47.10                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 94.19                  |                      |
| 23 51 16 00-0226        | EA  |     | 14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 681.45                 | 50.35                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 122.26                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 155.15                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 55.57                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 111.15                 |                      |
| 23 51 16 00-0227        | EA  |     | 16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 765.35                 | 56.56                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 137.29                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 174.27                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 62.40                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 124.81                 |                      |
| 23 51 16 00-0228        | EA  |     | 18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 891.48                 | 64.63                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 160.60                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 202.52                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 73.00                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 146.00                 |                      |
| 23 51 16 00-0229        | EA  |     | 20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 1,023.84               | 79.89                |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 181.32                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 234.71                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 82.42                  |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 164.84                 |                      |
| 23 51 16 00-0230        | EA  |     | 24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 1,307.19               | 113.13               |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 225.36                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 303.86                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 102.44                 |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 204.87                 |                      |
| 23 51 16 00-0231        | EA  |     | 28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 1,580.09               | 123.45               |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 279.76                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 362.29                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 127.16                 |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 254.32                 |                      |
| 23 51 16 00-0232        | EA  |     | 32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 2,081.96               | 135.76               |
|                         |     |     | <i>For 316 Stainless Steel, Add</i> .....   | 383.37                 |                      |
|                         |     |     | <i>For Tee Cap, Add</i> .....   | 467.30                 |                      |
|                         |     |     | <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 174.26                 |                      |
|                         |     |     | <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....   | 348.52                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 51 16 00-0233 EA 36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....                    | 2,320.06                  | 150.89                  |
| For 316 Stainless Steel, Add   | 427.41                    |                         |
| For Tee Cap, Add   | 520.61                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 194.28                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 388.55                    |                         |
| 23 51 16 00-0234 EA 42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....                    | 3,685.83                  | 226.27                  |
| For 316 Stainless Steel, Add   | 686.44                    |                         |
| For Tee Cap, Add   | 822.02                    |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 312.02                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 624.03                    |                         |
| 23 51 16 00-0235 EA 48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel<br>Outer Jacket.....                    | 4,623.19                  | 271.52                  |
| For 316 Stainless Steel, Add   | 867.76                    |                         |
| For Tee Cap, Add   | 1,026.46                  |                         |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 394.44                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 788.87                    |                         |
| <br><b>23 51 16 00-0236 Bellows</b> <small>(23 51 16 00-0175)</small>  |                           |                         |
| 23 51 16 00-0237 EA 6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....      | 720.61                    | 30.12                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 64.52                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 129.05                    |                         |
| 23 51 16 00-0238 EA 8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....      | 786.36                    | 34.79                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 69.94                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 139.88                    |                         |
| 23 51 16 00-0239 EA 10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 859.70                    | 37.75                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 76.53                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 153.06                    |                         |
| 23 51 16 00-0240 EA 12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 950.56                    | 41.15                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 84.77                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 169.55                    |                         |
| 23 51 16 00-0241 EA 14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 1,061.48                  | 43.14                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 95.37                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 190.74                    |                         |
| 23 51 16 00-0242 EA 16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 1,172.79                  | 45.26                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 105.97                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 211.94                    |                         |
| 23 51 16 00-0243 EA 18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 1,308.26                  | 47.66                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 118.92                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 237.84                    |                         |
| 23 51 16 00-0244 EA 20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 1,530.80                  | 75.37                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 134.23                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 268.45                    |                         |
| 23 51 16 00-0245 EA 24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 1,884.09                  | 84.85                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 167.19                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 334.39                    |                         |
| 23 51 16 00-0246 EA 28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 2,110.16                  | 90.51                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 188.39                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 376.77                    |                         |
| 23 51 16 00-0247 EA 32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 2,408.94                  | 97.01                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 216.65                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 433.29                    |                         |
| 23 51 16 00-0248 EA 36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 2,755.44                  | 113.13                  |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 247.26                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 494.52                    |                         |
| 23 51 16 00-0249 EA 42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 3,487.54                  | 123.45                  |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 317.90                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 635.81                    |                         |
| 23 51 16 00-0250 EA 48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket.....     | 4,224.91                  | 135.76                  |
| For 2" Insulated Wall Instead Of 1" Thickness, Add   | 388.55                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add   | 777.10                    |                         |
| <br><b>23 51 16 00-0251 Ventilated Roof Thimbles</b> <small>(23 51 16 00-0175)</small>   |                           |                         |
| 23 51 16 00-0252 EA 6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner<br>Wall/Aluminum Steel Outer Jacket..... | 487.34                    | 34.79                   |
| For 316 Stainless Steel, Add   | 40.03                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 23 51 16 00-0253        | EA  | 8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....  | 531.41                    | 41.15                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 42.86                     |                         |
| 23 51 16 00-0254        | EA  | 10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 581.70                    | 45.26                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 46.86                     |                         |
| 23 51 16 00-0255        | EA  | 12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 629.73                    | 50.35                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 50.39                     |                         |
| 23 51 16 00-0256        | EA  | 14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 794.84                    | 53.31                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 66.17                     |                         |
| 23 51 16 00-0257        | EA  | 16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 715.96                    | 56.56                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 57.46                     |                         |
| 23 51 16 00-0258        | EA  | 18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 770.23                    | 60.38                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 61.93                     |                         |
| 23 51 16 00-0259        | EA  | 20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 876.22                    | 84.85                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 66.41                     |                         |
| 23 51 16 00-0260        | EA  | 24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 983.95                    | 96.87                   |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 74.18                     |                         |
| 23 51 16 00-0261        | EA  | 28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,120.44                  | 104.36                  |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 85.95                     |                         |
| 23 51 16 00-0262        | EA  | 32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,248.14                  | 112.99                  |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 96.55                     |                         |
| 23 51 16 00-0263        | EA  | 36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,398.87                  | 135.61                  |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 105.97                    |                         |
| 23 51 16 00-0264        | EA  | 42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,778.08                  | 150.75                  |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 140.11                    |                         |
| 23 51 16 00-0265        | EA  | 48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 2,190.08                  | 169.56                  |
|                         |     | <i>For 316 Stainless Steel, Add</i> .....   | 176.61                    |                         |
| <b>23 51 16 00-0266</b> |     | <b>Exit Cones</b> <small>(23 51 16 00-0175)</small>   |                           |                         |
| 23 51 16 00-0267        | EA  | 6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....            | 334.18                    | 19.65                   |
| 23 51 16 00-0268        | EA  | 8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....            | 352.96                    | 21.49                   |
| 23 51 16 00-0269        | EA  | 10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 379.16                    | 22.63                   |
| 23 51 16 00-0270        | EA  | 12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 396.28                    | 23.76                   |
| 23 51 16 00-0271        | EA  | 14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 435.55                    | 24.47                   |
| 23 51 16 00-0272        | EA  | 16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 474.83                    | 25.03                   |
| 23 51 16 00-0273        | EA  | 18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 573.24                    | 25.88                   |
| 23 51 16 00-0274        | EA  | 20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 726.42                    | 48.51                   |
| 23 51 16 00-0275        | EA  | 24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 907.61                    | 52.18                   |
| 23 51 16 00-0276        | EA  | 28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,077.71                  | 54.30                   |
| 23 51 16 00-0277        | EA  | 32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,318.86                  | 56.56                   |
| 23 51 16 00-0278        | EA  | 36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,496.58                  | 61.80                   |
| 23 51 16 00-0279        | EA  | 42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,880.71                  | 64.63                   |
| 23 51 16 00-0280        | EA  | 48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 2,395.05                  | 67.88                   |
| <b>23 51 16 00-0281</b> |     | <b>Vent Top Caps</b> <small>(23 51 16 00-0175)</small>  |                           |                         |
| 23 51 16 00-0282        | EA  | 6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....              | 364.68                    | 19.65                   |
| 23 51 16 00-0283        | EA  | 8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....              | 421.25                    | 21.49                   |
| 23 51 16 00-0284        | EA  | 10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 487.46                    | 22.63                   |
| 23 51 16 00-0285        | EA  | 12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 558.73                    | 23.76                   |
| 23 51 16 00-0286        | EA  | 14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....             | 649.78                    | 24.47                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 16 00-0287 EA 16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 736.31                    | 25.17                   |
| 23 51 16 00-0288 EA 18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 818.19                    | 25.88                   |
| 23 51 16 00-0289 EA 20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 992.39                    | 48.51                   |
| 23 51 16 00-0290 EA 24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,178.42                  | 52.18                   |
| 23 51 16 00-0291 EA 28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,277.79                  | 54.30                   |
| 23 51 16 00-0292 EA 32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,448.28                  | 56.56                   |
| 23 51 16 00-0293 EA 36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 1,684.81                  | 61.66                   |
| 23 51 16 00-0294 EA 42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 2,045.44                  | 64.63                   |
| 23 51 16 00-0295 EA 48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....           | 2,371.40                  | 67.88                   |
| <b>23 51 16 00-0296 Roof Support Assemblies (23 51 16 00-0175)</b>  |                           |                         |
| 23 51 16 00-0297 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....  | 554.28                    | 36.21                   |
| <i>For 316 Stainless Steel, Add</i>   | 92.78                     |                         |
| 23 51 16 00-0298 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....  | 614.06                    | 43.14                   |
| <i>For 316 Stainless Steel, Add</i>   | 101.26                    |                         |
| 23 51 16 00-0299 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 674.73                    | 47.66                   |
| <i>For 316 Stainless Steel, Add</i>   | 111.15                    |                         |
| 23 51 16 00-0300 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 721.72                    | 53.17                   |
| <i>For 316 Stainless Steel, Add</i>   | 117.74                    |                         |
| 23 51 16 00-0301 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 803.11                    | 56.56                   |
| <i>For 316 Stainless Steel, Add</i>   | 132.34                    |                         |
| 23 51 16 00-0302 EA 16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 852.61                    | 60.38                   |
| <i>For 316 Stainless Steel, Add</i>   | 140.35                    |                         |
| 23 51 16 00-0303 EA 18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 915.31                    | 64.77                   |
| <i>For 316 Stainless Steel, Add</i>   | 150.71                    |                         |
| 23 51 16 00-0304 EA 20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,026.92                  | 90.51                   |
| <i>For 316 Stainless Steel, Add</i>   | 160.13                    |                         |
| 23 51 16 00-0305 EA 24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,155.95                  | 104.50                  |
| <i>For 316 Stainless Steel, Add</i>   | 178.97                    |                         |
| 23 51 16 00-0306 EA 28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,330.74                  | 113.13                  |
| <i>For 316 Stainless Steel, Add</i>   | 209.58                    |                         |
| 23 51 16 00-0307 EA 32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,580.12                  | 123.45                  |
| <i>For 316 Stainless Steel, Add</i>   | 254.32                    |                         |
| 23 51 16 00-0308 EA 36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 1,837.31                  | 150.89                  |
| <i>For 316 Stainless Steel, Add</i>   | 292.00                    |                         |
| 23 51 16 00-0309 EA 42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 2,708.41                  | 169.70                  |
| <i>For 316 Stainless Steel, Add</i>   | 456.84                    |                         |
| 23 51 16 00-0310 EA 48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... | 3,308.13                  | 192.89                  |
| <i>For 316 Stainless Steel, Add</i>   | 565.16                    |                         |
| <b>23 51 16 00-0311 Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings (23 51 16)</b>  |                           |                         |
| Note: With 1" insulation.   |                           |                         |
| <b>23 51 16 00-0312 Round Stainless Steel Double Wall Flue/Vent Pipe (23 51 16 00-0311)</b>   |                           |                         |
| Note: With 1" insulation.   |                           |                         |
| 23 51 16 00-0313 LF 6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....   | 103.72                    | 15.14                   |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>   | 6.59                      |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>   | 13.19                     |                         |
| 23 51 16 00-0314 LF 7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....   | 125.20                    | 16.12                   |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>   | 8.48                      |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>   | 16.95                     |                         |
| 23 51 16 00-0315 LF 8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....   | 142.47                    | 17.40                   |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>   | 9.89                      |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>   | 19.78                     |                         |
| 23 51 16 00-0316 LF 10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....  | 190.66                    | 18.81                   |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>   | 14.37                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>   | 28.73                     |                         |
| 23 51 16 00-0317 LF 12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....  | 244.57                    | 20.65                   |
| <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>   | 19.31                     |                         |
| <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>   | 38.62                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 16 00-0318 LF 14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....                      | 308.33                    | 21.63                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 25.43                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 50.86                     |                         |
| <b>23 51 16 00-0319 90 Degree Elbows (23 51 16 00-0311)</b>   |                           |                         |
| 23 51 16 00-0320 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....           | 222.61                    | 30.12                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 14.72                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 29.44                     |                         |
| 23 51 16 00-0321 EA 7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....           | 245.58                    | 32.24                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 16.48                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 32.97                     |                         |
| 23 51 16 00-0322 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....           | 275.40                    | 34.79                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 18.84                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 37.68                     |                         |
| 23 51 16 00-0323 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....          | 339.23                    | 37.75                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 24.49                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 48.98                     |                         |
| 23 51 16 00-0324 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....          | 401.91                    | 41.15                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 29.91                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 59.81                     |                         |
| 23 51 16 00-0325 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....          | 465.63                    | 43.14                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 35.79                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 71.59                     |                         |
| <b>23 51 16 00-0326 45 Degree Elbows (23 51 16 00-0311)</b>   |                           |                         |
| 23 51 16 00-0327 EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....           | 185.82                    | 30.12                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 11.04                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 22.08                     |                         |
| 23 51 16 00-0328 EA 7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....           | 204.37                    | 32.24                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 12.36                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 24.73                     |                         |
| 23 51 16 00-0329 EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....           | 228.32                    | 34.79                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 14.13                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 28.26                     |                         |
| 23 51 16 00-0330 EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....          | 278.01                    | 37.75                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 18.37                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 36.74                     |                         |
| 23 51 16 00-0331 EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....          | 327.11                    | 41.15                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 22.43                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 44.86                     |                         |
| 23 51 16 00-0332 EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....          | 376.21                    | 43.14                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 26.85                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 53.69                     |                         |
| <b>23 51 16 00-0333 Tees With Tee Caps (23 51 16 00-0311)</b>   |                           |                         |
| 23 51 16 00-0334 EA 6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....                       | 353.23                    | 30.12                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 27.79                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 55.57                     |                         |
| 23 51 16 00-0335 EA 7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....                       | 443.40                    | 32.24                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 36.27                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 72.53                     |                         |
| 23 51 16 00-0336 EA 8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....                       | 496.72                    | 34.79                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 40.97                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 81.95                     |                         |
| 23 51 16 00-0337 EA 10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....                      | 671.17                    | 37.75                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 57.69                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 115.39                    |                         |
| 23 51 16 00-0338 EA 12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....                      | 915.19                    | 41.15                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 81.24                     |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 162.48                    |                         |
| 23 51 16 00-0339 EA 14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....                      | 1,167.34                  | 43.14                   |
| For 2" Insulated Wall Instead Of 1" Thickness, Add  | 105.97                    |                         |
| For 3" Insulated Wall Instead Of 1" Thickness, Add  | 211.94                    |                         |
| <b>23 51 16 00-0340 Joist Shields (23 51 16 00-0311)</b>  |                           |                         |
| 23 51 16 00-0341 EA 6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....              | 160.15                    | 30.12                   |
| 23 51 16 00-0342 EA 7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....              | 172.59                    | 32.24                   |
| 23 51 16 00-0343 EA 8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....              | 200.01                    | 34.79                   |
| 23 51 16 00-0344 EA 10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....             | 246.27                    | 37.75                   |
| 23 51 16 00-0345 EA 12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....             | 292.38                    | 41.15                   |
| 23 51 16 00-0346 EA 14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....             | 343.17                    | 43.14                   |
| <b>23 51 16 00-0347 Adjustable Roof Flashing (23 51 16 00-0311)</b>                                     |                           |                         |
| 23 51 16 00-0348 EA 6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....  | 187.23                    | 30.12                   |
| 23 51 16 00-0349 EA 7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....  | 207.89                    | 32.24                   |
| 23 51 16 00-0350 EA 8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....  | 225.90                    | 34.79                   |
| 23 51 16 00-0351 EA 10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe ..... | 272.14                    | 37.75                   |
| 23 51 16 00-0352 EA 12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe ..... | 332.51                    | 41.15                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 51 16 00-0353 EA 14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe..... | 394.94                    | 42.99                   |
| <b>23 51 16 00-0354 Vent Top Caps (23 51 16 00-0311)</b>   |                           |                         |
| 23 51 16 00-0355 EA 6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....                  | 169.57                    | 30.12                   |
| 23 51 16 00-0356 EA 7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....                  | 209.07                    | 32.24                   |
| 23 51 16 00-0357 EA 8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....                  | 258.87                    | 34.79                   |
| 23 51 16 00-0358 EA 10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....                 | 402.87                    | 37.75                   |
| 23 51 16 00-0359 EA 12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....                 | 543.25                    | 41.15                   |
| 23 51 16 00-0360 EA 14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....                 | 687.01                    | 43.14                   |
| <b>23 51 16 00-0361 Roof Support Assemblies (23 51 16 00-0311)</b>                                     |                           |                         |
| 23 51 16 00-0362 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....    | 243.64                    | 30.12                   |
| 23 51 16 00-0363 EA 7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....    | 270.29                    | 32.24                   |
| 23 51 16 00-0364 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....    | 292.99                    | 34.79                   |
| 23 51 16 00-0365 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....   | 365.07                    | 37.75                   |
| 23 51 16 00-0366 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....   | 430.15                    | 41.15                   |
| 23 51 16 00-0367 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....   | 522.18                    | 43.14                   |
| <b>23 51 16 00-0368 Polyvinyl Chloride (PVC) Flue/Vent Accessories (23 51 16)</b>                      |                           |                         |
| <b>23 51 16 00-0369 Concentric Polyvinyl Chloride (PVC) Vent Termination (23 51 16 00-0368)</b>        |                           |                         |
| 23 51 16 00-0370 EA 2" Concentric Polyvinyl Chloride (PVC) Vent Termination .....                      | 262.06                    | 57.60                   |
| 23 51 16 00-0371 EA 3" Concentric Polyvinyl Chloride (PVC) Vent Termination .....                      | 283.04                    | 57.60                   |
| <b>23 51 16 00-0372 Polypropylene (PP) Flue/Vent Pipe And Fittings (23 51 16)</b>                      |                           |                         |
| Note: Centrotherm InnoFlue® Vent System  |                           |                         |
| <b>23 51 16 00-0373 Polypropylene Flue/Vent Rigid Pipe Sections (23 51 16 00-0372)</b>                 |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.       |                           |                         |
| 23 51 16 00-0374 EA 2" x 12" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 52.04                     | 17.49                   |
| 23 51 16 00-0375 EA 2" x 24" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 58.73                     | 18.41                   |
| 23 51 16 00-0376 EA 2" x 36" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 67.11                     | 20.47                   |
| 23 51 16 00-0377 EA 2" x 72" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 82.95                     | 24.07                   |
| 23 51 16 00-0378 EA 3" x 12" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 62.28                     | 20.05                   |
| 23 51 16 00-0379 EA 3" x 24" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 74.25                     | 21.11                   |
| 23 51 16 00-0380 EA 3" x 36" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 90.37                     | 23.46                   |
| 23 51 16 00-0381 EA 3" x 72" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 111.35                    | 27.59                   |
| 23 51 16 00-0382 EA 4" x 12" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 100.96                    | 26.53                   |
| 23 51 16 00-0383 EA 4" x 24" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 118.23                    | 27.92                   |
| 23 51 16 00-0384 EA 4" x 36" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 145.93                    | 31.03                   |
| 23 51 16 00-0385 EA 4" x 72" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 187.99                    | 36.50                   |
| 23 51 16 00-0386 EA 5" x 12" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 149.71                    | 39.15                   |
| 23 51 16 00-0387 EA 5" x 24" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 170.14                    | 41.20                   |
| 23 51 16 00-0388 EA 5" x 36" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 218.92                    | 45.79                   |
| 23 51 16 00-0389 EA 5" x 72" Polypropylene Flue/Vent Rigid Pipe Section .....                          | 282.90                    | 53.88                   |
| <b>23 51 16 00-0390 Polypropylene Flue/Vent Elbows (23 51 16 00-0372)</b>                              |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.      |                           |                         |
| 23 51 16 00-0391 EA 2" Polypropylene Flue/Vent 15 Degree Elbow .....                                   | 64.22                     | 21.25                   |
| 23 51 16 00-0392 EA 3" Polypropylene Flue/Vent 15 Degree Elbow .....                                   | 74.39                     | 22.37                   |
| 23 51 16 00-0393 EA 4" Polypropylene Flue/Vent 15 Degree Elbow .....                                   | 91.47                     | 23.19                   |
| 23 51 16 00-0394 EA 5" Polypropylene Flue/Vent 15 Degree Elbow .....                                   | 105.38                    | 24.14                   |
| 23 51 16 00-0395 EA 2" Polypropylene Flue/Vent 30 Degree Elbow .....                                   | 64.22                     | 21.25                   |
| 23 51 16 00-0396 EA 3" Polypropylene Flue/Vent 30 Degree Elbow .....                                   | 74.39                     | 22.37                   |
| 23 51 16 00-0397 EA 4" Polypropylene Flue/Vent 30 Degree Elbow .....                                   | 91.47                     | 23.19                   |
| 23 51 16 00-0398 EA 5" Polypropylene Flue/Vent 30 Degree Elbow .....                                   | 105.38                    | 24.14                   |
| 23 51 16 00-0399 EA 2" Polypropylene Flue/Vent 45 Degree Elbow .....                                   | 64.22                     | 21.25                   |
| 23 51 16 00-0400 EA 3" Polypropylene Flue/Vent 45 Degree Elbow .....                                   | 74.39                     | 22.37                   |
| 23 51 16 00-0401 EA 4" Polypropylene Flue/Vent 45 Degree Elbow .....                                   | 91.47                     | 23.19                   |
| 23 51 16 00-0402 EA 5" Polypropylene Flue/Vent 45 Degree Elbow .....                                   | 105.38                    | 24.14                   |
| 23 51 16 00-0403 EA 2" Polypropylene Flue/Vent 87 Degree Elbow .....                                   | 64.22                     | 21.25                   |
| 23 51 16 00-0404 EA 3" Polypropylene Flue/Vent 87 Degree Elbow .....                                   | 74.39                     | 22.37                   |
| 23 51 16 00-0405 EA 4" Polypropylene Flue/Vent 87 Degree Elbow .....                                   | 90.43                     | 23.19                   |
| 23 51 16 00-0406 EA 5" Polypropylene Flue/Vent 87 Degree Elbow .....                                   | 107.96                    | 24.14                   |
| <b>23 51 16 00-0407 Polypropylene Flue/Vent Tees (23 51 16 00-0372)</b>                                |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.      |                           |                         |
| 23 51 16 00-0408 EA 2" Polypropylene Flue/Vent Tee .....   | 189.39                    | 31.89                   |
| 23 51 16 00-0409 EA 3" Polypropylene Flue/Vent Tee .....   | 236.00                    | 33.57                   |
| 23 51 16 00-0410 EA 4" Polypropylene Flue/Vent Tee .....   | 275.56                    | 34.79                   |
| 23 51 16 00-0411 EA 5" Polypropylene Flue/Vent Tee .....   | 300.93                    | 36.21                   |
| <b>23 51 16 00-0412 Polypropylene Flue/Vent Adaptors (23 51 16 00-0372)</b>                            |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.      |                           |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 51 16 00-0413 EA 2" Polypropylene Flue/Vent Adaptor With Gasket.....                                 | 74.38                     | 21.25                   |
| 23 51 16 00-0414 EA 3" Polypropylene Flue/Vent Adaptor With Gasket.....                                 | 103.97                    | 22.37                   |
| 23 51 16 00-0415 EA 4" Polypropylene Flue/Vent Adaptor With Gasket.....                                 | 120.11                    | 23.19                   |
| 23 51 16 00-0416 EA 5" Polypropylene Flue/Vent Adaptor With Gasket.....                                 | 161.37                    | 24.14                   |
| <b>23 51 16 00-0417 Polypropylene Flue/Vent Increases</b> <small>(23 51 16 00-0372)</small>             |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.       |                           |                         |
| 23 51 16 00-0418 EA 2" to 3" Polypropylene Flue/Vent Centric Increaser .....                            | 81.86                     | 21.82                   |
| 23 51 16 00-0419 EA 3" to 4" Polypropylene Flue/Vent Centric Increaser .....                            | 89.29                     | 22.78                   |
| 23 51 16 00-0420 EA 4" to 5" Polypropylene Flue/Vent Centric Increaser .....                            | 154.99                    | 23.65                   |
| 23 51 16 00-0421 EA 2" to 3" Polypropylene Flue/Vent Eccentric Increaser.....                           | 107.93                    | 21.82                   |
| 23 51 16 00-0422 EA 3" to 4" Polypropylene Flue/Vent Eccentric Increaser.....                           | 87.16                     | 22.78                   |
| 23 51 16 00-0423 EA 4" to 5" Polypropylene Flue/Vent Eccentric Increaser.....                           | 210.66                    | 23.65                   |
| <b>23 51 16 00-0424 Polypropylene Flue/Vent Reducers</b> <small>(23 51 16 00-0372)</small>              |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.       |                           |                         |
| 23 51 16 00-0425 EA 3" to 2" Polypropylene Flue/Vent Reducer.....                                       | 81.86                     | 21.82                   |
| 23 51 16 00-0426 EA 4" to 3" Polypropylene Flue/Vent Reducer.....                                       | 89.29                     | 22.78                   |
| 23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer.....                                       | 189.70                    | 23.65                   |
| <b>23 51 16 00-0428 Polypropylene Flue/Vent Test Ports</b> <small>(23 51 16 00-0372)</small>            |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.       |                           |                         |
| 23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port.....   | 105.20                    | 31.89                   |
| 23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port.....   | 117.30                    | 33.57                   |
| 23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port.....   | 174.16                    | 34.79                   |
| 23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port.....   | 185.64                    | 36.21                   |
| <b>23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components</b> <small>(23 51 16 00-0372)</small>    |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.       |                           |                         |
| 23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....                    | 280.24                    | 34.79                   |
| 23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....                    | 366.31                    | 43.49                   |
| 23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....                    | 232.97                    | 36.21                   |
| 23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....                    | 342.36                    | 45.26                   |
| 23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve.....                              | 350.64                    | 22.78                   |
| 23 51 16 00-0439 EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve.....                              | 405.07                    | 23.65                   |
| <b>23 51 16 00-0440 Polypropylene Flue/Vent Condensate Management</b> <small>(23 51 16 00-0372)</small> |                           |                         |
| Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.       |                           |                         |
| 23 51 16 00-0441 EA 2" Polypropylene Flue/Vent Horizontal Drain Tee.....                                | 140.39                    | 31.89                   |
| 23 51 16 00-0442 EA 3" Polypropylene Flue/Vent Horizontal Drain Tee.....                                | 168.06                    | 33.57                   |
| 23 51 16 00-0443 EA 4" Polypropylene Flue/Vent Horizontal Drain Tee.....                                | 191.31                    | 34.79                   |
| 23 51 16 00-0444 EA 5" Polypropylene Flue/Vent Horizontal Drain Tee.....                                | 217.13                    | 36.21                   |
| 23 51 16 00-0445 EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings .....                          | 238.93                    | 34.79                   |
| 23 51 16 00-0446 EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings .....                          | 262.70                    | 36.21                   |
| 23 51 16 00-0447 EA 2" Polypropylene Flue/Vent Tee Cap.....   | 78.38                     | 10.63                   |
| 23 51 16 00-0448 EA 3" Polypropylene Flue/Vent Tee Cap.....   | 99.81                     | 11.18                   |
| 23 51 16 00-0449 EA 4" Polypropylene Flue/Vent Tee Cap.....   | 118.06                    | 11.60                   |
| 23 51 16 00-0450 EA 5" Polypropylene Flue/Vent Tee Cap.....   | 153.20                    | 12.06                   |
| 23 51 16 00-0451 EA 2" Polypropylene Flue/Vent Tee Cap With Drain.....                                  | 155.62                    | 31.89                   |
| 23 51 16 00-0452 EA 3" Polypropylene Flue/Vent Tee Cap With Drain.....                                  | 189.18                    | 33.57                   |
| 23 51 16 00-0453 EA 4" Polypropylene Flue/Vent Tee Cap With Drain.....                                  | 217.51                    | 34.79                   |
| 23 51 16 00-0454 EA 5" Polypropylene Flue/Vent Tee Cap With Drain.....                                  | 260.19                    | 36.21                   |
| <b>23 51 16 00-0455 Polypropylene Flue/Vent Terminations</b> <small>(23 51 16 00-0372)</small>          |                           |                         |
| 23 51 16 00-0456 EA 2" Polypropylene-UV Black Flue/Vent Chimney Cover.....                              | 195.67                    | 21.25                   |
| 23 51 16 00-0457 EA 3" Polypropylene-UV Black Flue/Vent Chimney Cover.....                              | 173.82                    | 22.37                   |
| 23 51 16 00-0458 EA 4" Polypropylene-UV Black Flue/Vent Chimney Cover.....                              | 215.93                    | 23.19                   |
| 23 51 16 00-0459 EA 3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....          | 432.90                    | 22.37                   |
| 23 51 16 00-0460 EA 4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....          | 462.00                    | 23.19                   |
| 23 51 16 00-0461 EA 5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....          | 538.35                    | 24.14                   |
| 23 51 16 00-0462 EA 2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 118.40                    | 21.25                   |
| 23 51 16 00-0463 EA 2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 124.93                    | 21.25                   |
| 23 51 16 00-0464 EA 2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 131.46                    | 21.25                   |
| 23 51 16 00-0465 EA 2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 137.98                    | 21.25                   |
| 23 51 16 00-0466 EA 3" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 127.74                    | 22.37                   |
| 23 51 16 00-0467 EA 3" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 134.27                    | 22.37                   |
| 23 51 16 00-0468 EA 3" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 140.79                    | 22.37                   |
| 23 51 16 00-0469 EA 3" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 147.32                    | 22.37                   |
| 23 51 16 00-0470 EA 4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 142.82                    | 23.19                   |
| 23 51 16 00-0471 EA 4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 149.35                    | 23.19                   |
| 23 51 16 00-0472 EA 4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....           | 155.87                    | 23.19                   |
| 23 51 16 00-0473 EA 2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination.....               | 124.86                    | 21.25                   |
| 23 51 16 00-0474 EA 3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination.....               | 158.41                    | 22.37                   |
| 23 51 16 00-0475 EA 2" Polypropylene-UV Black Flue/Vent Termination Tee.....                            | 147.47                    | 31.89                   |
| 23 51 16 00-0476 EA 3" Polypropylene-UV Black Flue/Vent Termination Tee.....                            | 191.47                    | 33.57                   |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like Polypropylene-UV Black Flue/Vent Termination Tee, Polypropylene Flue/Vent Accessories, Polypropylene Flue/Vent Flex Pipe, and Polypropylene Flue/Vent Couplers.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 23 51 16 00-0549 | EA | 4" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination..... | 142.47 | 23.19 |
|------------------|----|--|--------|-------|

**23 51 16 00-0550 Aluminum Flue/Vent Fittings (23 51 16)****23 51 16 00-0551 Aluminum Vent Top Caps (23 51 16 00-0550)**

|                  |    |  |        |       |
|------------------|----|--|--------|-------|
| 23 51 16 00-0552 | EA | 3" Aluminum Vent Cap (Star-Kap® 3-SK).....   | 119.15 | 21.07 |
| 23 51 16 00-0553 | EA | 4" Aluminum Vent Cap (Star-Kap® 4-SK).....   | 126.65 | 20.65 |
| 23 51 16 00-0554 | EA | 5" Aluminum Vent Cap (Star-Kap® 5-SK).....   | 137.19 | 21.63 |
| 23 51 16 00-0555 | EA | 6" Aluminum Vent Cap (Star-Kap® 6-SK).....   | 189.71 | 22.63 |
| 23 51 16 00-0556 | EA | 8" Aluminum Vent Cap (Star-Kap® 8-SK).....   | 212.15 | 25.17 |
| 23 51 16 00-0557 | EA | 10" Aluminum Vent Cap (Star-Kap® 10-SK)..... | 595.76 | 26.58 |
| 23 51 16 00-0558 | EA | 12" Aluminum Vent Cap (Star-Kap® 12-SK)..... | 610.79 | 28.28 |

**23 52 Heating Boilers (23 50)****23 52 13 Electric Boilers (23 52)****23 52 13 00-0001 Packaged Electric Steam Boiler (23 52 13)**

Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 23 52 13 00-0002 | EA | 12 KW, 42 MBH Electric Steam Boiler With Packaged Standard Controls .....       | 8,788.17  | 846.23   |
| 23 52 13 00-0003 | EA | 24 KW, 84 MBH Electric Steam Boiler With Packaged Standard Controls .....       | 9,496.65  | 987.27   |
| 23 52 13 00-0004 | EA | 36 KW, 126 MBH Electric Steam Boiler With Packaged Standard Controls .....      | 10,129.56 | 1,057.79 |
| 23 52 13 00-0005 | EA | 48 KW, 168 MBH Electric Steam Boiler With Packaged Standard Controls .....      | 11,222.49 | 1,128.31 |
| 23 52 13 00-0006 | EA | 60 KW, 210 MBH Electric Steam Boiler With Packaged Standard Controls .....      | 12,290.82 | 1,198.83 |
| 23 52 13 00-0007 | EA | 80 KW, 280 MBH Electric Steam Boiler With Packaged Standard Controls .....      | 14,294.30 | 1,339.87 |
| 23 52 13 00-0008 | EA | 100 KW, 350 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 16,297.92 | 1,480.91 |
| 23 52 13 00-0009 | EA | 120 KW, 420 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 17,017.64 | 1,551.43 |
| 23 52 13 00-0010 | EA | 140 KW, 490 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 18,046.52 | 1,621.95 |
| 23 52 13 00-0011 | EA | 160 KW, 560 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 23,272.48 | 1,762.99 |
| 23 52 13 00-0012 | EA | 180 KW, 630 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 24,227.26 | 1,833.51 |
| 23 52 13 00-0013 | EA | 200 KW, 700 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 24,958.13 | 1,832.06 |
| 23 52 13 00-0014 | EA | 220 KW, 770 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 25,993.88 | 1,967.76 |
| 23 52 13 00-0015 | EA | 240 KW, 840 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 28,014.50 | 2,103.47 |
| 23 52 13 00-0016 | EA | 260 KW, 910 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 30,157.58 | 2,307.03 |
| 23 52 13 00-0017 | EA | 280 KW, 980 MBH Electric Steam Boiler With Packaged Standard Controls .....     | 32,101.83 | 2,374.89 |
| 23 52 13 00-0018 | EA | 300 KW, 1,050 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 33,622.54 | 2,442.74 |
| 23 52 13 00-0019 | EA | 320 KW, 1,120 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 35,914.30 | 2,510.60 |
| 23 52 13 00-0020 | EA | 360 KW, 1,260 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 38,206.74 | 2,578.45 |
| 23 52 13 00-0021 | EA | 400 KW, 1,400 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 40,874.42 | 2,714.15 |
| 23 52 13 00-0022 | EA | 460 KW, 1,610 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 43,637.08 | 2,849.86 |
| 23 52 13 00-0023 | EA | 500 KW, 1,750 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 46,331.89 | 2,917.72 |
| 23 52 13 00-0024 | EA | 600 KW, 2,100 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 51,137.62 | 2,985.57 |
| 23 52 13 00-0025 | EA | 700 KW, 2,450 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 55,071.27 | 3,121.28 |
| 23 52 13 00-0026 | EA | 756 KW, 2,646 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 56,405.11 | 3,256.99 |
| 23 52 13 00-0027 | EA | 828 KW, 2,898 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 61,807.62 | 3,460.55 |
| 23 52 13 00-0028 | EA | 936 KW, 3,276 MBH Electric Steam Boiler With Packaged Standard Controls .....   | 63,887.68 | 3,664.11 |
| 23 52 13 00-0029 | EA | 1,008 KW, 3,528 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 66,103.44 | 3,867.68 |
| 23 52 13 00-0030 | EA | 1,116 KW, 3,906 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 70,036.57 | 4,071.24 |
| 23 52 13 00-0031 | EA | 1,224 KW, 4,284 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 71,799.75 | 4,206.94 |
| 23 52 13 00-0032 | EA | 1,368 KW, 4,788 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 74,105.42 | 4,478.36 |
| 23 52 13 00-0033 | EA | 1,440 KW, 5,040 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 76,637.39 | 4,749.78 |
| 23 52 13 00-0034 | EA | 1,512 KW, 5,292 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 83,509.27 | 5,021.19 |
| 23 52 13 00-0035 | EA | 1,620 KW, 5,670 MBH Electric Steam Boiler With Packaged Standard Controls ..... | 87,985.24 | 5,292.61 |

**23 52 13 00-0036 Packaged Electric Hot Water Boiler (23 52 13)**

Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.). Rated by KW and MBH output.

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 23 52 13 00-0037 | EA | 9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls.....     | 7,751.05  | 775.71   |
| 23 52 13 00-0038 | EA | 12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls.....    | 8,125.39  | 846.23   |
| 23 52 13 00-0039 | EA | 18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls.....    | 8,499.73  | 916.75   |
| 23 52 13 00-0040 | EA | 24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls.....    | 8,884.43  | 987.27   |
| 23 52 13 00-0041 | EA | 36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls.....   | 9,343.65  | 1,057.79 |
| 23 52 13 00-0042 | EA | 48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls.....   | 9,652.48  | 1,128.31 |
| 23 52 13 00-0043 | EA | 60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 10,026.82 | 1,198.83 |
| 23 52 13 00-0044 | EA | 72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 10,588.34 | 1,269.35 |
| 23 52 13 00-0045 | EA | 84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 11,153.58 | 1,339.87 |
| 23 52 13 00-0046 | EA | 90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 11,453.05 | 1,410.39 |
| 23 52 13 00-0047 | EA | 105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 12,322.31 | 1,480.91 |
| 23 52 13 00-0048 | EA | 120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 13,166.38 | 1,551.43 |
| 23 52 13 00-0049 | EA | 135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 14,714.01 | 1,621.95 |
| 23 52 13 00-0050 | EA | 150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 15,782.69 | 1,692.47 |
| 23 52 13 00-0051 | EA | 165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 16,637.80 | 1,762.99 |
| 23 52 13 00-0052 | EA | 180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 17,943.64 | 1,833.51 |
| 23 52 13 00-0053 | EA | 195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 19,040.27 | 1,832.06 |
| 23 52 13 00-0054 | EA | 225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 20,411.29 | 1,967.76 |
| 23 52 13 00-0055 | EA | 240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 21,927.39 | 2,103.47 |
| 23 52 13 00-0056 | EA | 270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 23,434.13 | 2,307.03 |
| 23 52 13 00-0057 | EA | 300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls..... | 24,950.22 | 2,442.74 |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 23 52 13 00-0058 | EA    |     |     | 330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 26,407.85              | 2,578.45             |
| 23 52 13 00-0059 | EA    |     |     | 360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 28,544.00              | 2,646.30             |
| 23 52 13 00-0060 | EA    |     |     | 390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 30,392.34              | 2,714.15             |
| 23 52 13 00-0061 | EA    |     |     | 420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 32,165.80              | 2,849.86             |
| 23 52 13 00-0062 | EA    |     |     | 450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 34,012.06              | 2,849.86             |
| 23 52 13 00-0063 | EA    |     |     | 504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 37,196.45              | 2,917.72             |
| 23 52 13 00-0064 | EA    |     |     | 612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 38,876.64              | 2,985.57             |
| 23 52 13 00-0065 | EA    |     |     | 684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 41,084.60              | 3,121.28             |
| 23 52 13 00-0066 | EA    |     |     | 720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 42,670.85              | 3,189.14             |
| 23 52 13 00-0067 | EA    |     |     | 750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 44,264.06              | 3,256.99             |
| 23 52 13 00-0068 | EA    |     |     | 810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 45,493.04              | 3,460.55             |
| 23 52 13 00-0069 | EA    |     |     | 900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls.....    | 47,673.47              | 3,664.11             |
| 23 52 13 00-0070 | EA    |     |     | 1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 55,227.36              | 3,867.68             |
| 23 52 13 00-0071 | EA    |     |     | 1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 60,513.60              | 4,071.24             |
| 23 52 13 00-0072 | EA    |     |     | 1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 62,763.72              | 4,206.94             |
| 23 52 13 00-0073 | EA    |     |     | 1350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls.....   | 65,306.90              | 4,478.36             |
| 23 52 13 00-0074 | EA    |     |     | 1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 67,850.09              | 4,749.78             |
| 23 52 13 00-0075 | EA    |     |     | 1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 74,995.33              | 5,021.19             |
| 23 52 13 00-0076 | EA    |     |     | 1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 79,655.91              | 5,292.61             |
| 23 52 13 00-0077 | EA    |     |     | 1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 81,637.59              | 5,428.32             |
| 23 52 13 00-0078 | EA    |     |     | 1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 83,619.26              | 5,564.03             |
| 23 52 13 00-0079 | EA    |     |     | 1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 84,162.09              | 5,767.58             |
| 23 52 13 00-0080 | EA    |     |     | 2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 90,268.55              | 5,903.29             |
| 23 52 13 00-0081 | EA    |     |     | 2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 94,367.62              | 6,106.86             |
| 23 52 13 00-0082 | EA    |     |     | 2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls.....  | 101,339.80             | 6,513.98             |
| 23 52 13 00-0083 | EA    |     |     | 2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls..... | 109,439.76             | 7,192.51             |
| 23 52 13 00-0084 | EA    |     |     | 3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls..... | 118,864.02             | 8,006.76             |
| 23 52 13 00-0085 | EA    |     |     | 3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls..... | 125,836.20             | 8,821.01             |

**23 52 16 Condensing Boilers (23 52)**

**23 52 16 13 Stainless-Steel Condensing Boilers (23 52 16)**

**23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code).

|                               |    |  |  |  |           |          |
|-------------------------------|----|--|--|--|-----------|----------|
| 23 52 16 13-0002              | EA |  |  | 75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79).....      | 12,887.32 | 564.16   |
| 23 52 16 13-0003              | EA |  |  | 127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129).....    | 13,729.24 | 751.46   |
| 23 52 16 13-0004              | EA |  |  | 168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179).....    | 14,670.58 | 846.09   |
| 23 52 16 13-0005              | EA |  |  | 187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1).....  | 15,549.11 | 893.20   |
| 23 52 16 13-0006              | EA |  |  | 281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299).....    | 20,427.50 | 1,034.24 |
| 23 52 16 13-0007              | EA |  |  | 374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399).....    | 23,598.89 | 1,128.17 |
| 23 52 16 13-0008              | EA |  |  | 589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599).....    | 31,742.27 | 1,316.18 |
| 23 52 16 13-0009              | EA |  |  | 785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798).....    | 43,909.93 | 1,504.32 |
| Note: Includes vent manifold. |    |  |  |  |           |          |
| 23 52 16 13-0010              | EA |  |  | 980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998).....    | 53,569.25 | 1,645.36 |
| Note: Includes vent manifold. |    |  |  |  |           |          |
| 23 52 16 13-0011              | EA |  |  | 1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499)..... | 77,044.62 | 1,927.30 |
| 23 52 16 13-0012              | EA |  |  | 1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999)..... | 84,866.60 | 2,068.34 |

**23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes Riello burners. Capacity given is IBR rating.

|                  |    |  |  |  |           |          |
|------------------|----|--|--|--|-----------|----------|
| 23 52 16 13-0014 | EA |  |  | 484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145).....   | 39,350.78 | 1,222.25 |
| 23 52 16 13-0015 | EA |  |  | 612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185).....   | 41,285.02 | 1,316.18 |
| 23 52 16 13-0016 | EA |  |  | 791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240).....   | 46,031.45 | 1,504.32 |
| 23 52 16 13-0017 | EA |  |  | 1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310)..... | 49,899.95 | 1,629.33 |
| 23 52 16 13-0018 | EA |  |  | 1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400)..... | 55,463.14 | 1,833.37 |
| 23 52 16 13-0019 | EA |  |  | 1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510)..... | 63,294.44 | 1,927.30 |
| 23 52 16 13-0020 | EA |  |  | 2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640)..... | 75,526.78 | 2,068.34 |

**23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes Riello burners.

|                  |    |  |  |   |            |          |
|------------------|----|--|--|---|------------|----------|
| 23 52 16 13-0022 | EA |  |  | 2,650 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790).....  | 79,560.22  | 2,256.34 |
| 23 52 16 13-0023 | EA |  |  | 3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970).....  | 91,974.01  | 2,350.42 |
| 23 52 16 13-0024 | EA |  |  | 4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200)..... | 106,445.67 | 2,444.49 |

**23 52 16 13-0025 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13)**

Note: Compliant with SCAQMD. Rated by gross rated input.

|                  |    |  |  |   |           |          |
|------------------|----|--|--|---|-----------|----------|
| 23 52 16 13-0026 | EA |  |  | 80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080).....  | 8,409.26  | 611.12   |
| 23 52 16 13-0027 | EA |  |  | 105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105)..... | 9,605.07  | 705.20   |
| 23 52 16 13-0028 | EA |  |  | 150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150)..... | 10,804.36 | 846.09   |
| 23 52 16 13-0029 | EA |  |  | 210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210)..... | 12,031.04 | 940.17   |
| 23 52 16 13-0030 | EA |  |  | 285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285)..... | 15,023.56 | 1,034.24 |
| 23 52 16 13-0031 | EA |  |  | 399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399)..... | 19,459.24 | 1,128.17 |
| 23 52 16 13-0032 | EA |  |  | 500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500)..... | 23,277.67 | 1,222.25 |
| 23 52 16 13-0033 | EA |  |  | 600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600)..... | 25,810.14 | 1,316.18 |
| 23 52 16 13-0034 | EA |  |  | 750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750)..... | 28,021.13 | 1,410.25 |
| 23 52 16 13-0035 | EA |  |  | 850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850)..... | 30,514.21 | 1,598.26 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 52 16 13-0036 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000).....   | 42,983.78                 | 1,692.33                |
| 23 52 16 13-0037 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700).....   | 56,935.20                 | 1,974.41                |
| 23 52 16 13-0038 EA 150 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV150).....  | 19,087.87                 | 846.09                  |
| 23 52 16 13-0039 EA 199 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV199).....  | 21,997.86                 | 1,128.31                |
| 23 52 16 13-0040 EA 285 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV285).....  | 28,715.70                 | 1,269.35                |
| 23 52 16 13-0041 EA 399 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV399).....  | 36,043.92                 | 1,551.43                |
| 23 52 16 13-0042 EA 500 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV500).....  | 42,532.29                 | 1,692.47                |
| 23 52 16 13-0043 EA 600 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV600).....  | 48,065.84                 | 1,833.51                |
| 23 52 16 13-0044 EA 750 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV750).....  | 57,613.14                 | 1,974.55                |
| 23 52 16 13-0045 EA 850 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV850).....  | 63,823.02                 | 2,115.59                |
| 23 52 16 13-0046 EA 1,000 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1000).....   | 83,737.56                 | 2,256.63                |
| 23 52 16 13-0047 EA 1,700 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1700).....   | 112,537.78                | 2,961.82                |
| <b>23 52 16 13-0048 AERCO Benchmark Stainless-Steel Condensing Boilers (23 52 16 13)</b>   |                           |                         |
| 23 52 16 13-0049 EA 1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN).....                           | 66,526.12                 | 1,927.30                |
| Note: Includes gas PRV and pump delay relay.   |                           |                         |
| 23 52 16 13-0050 EA 2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN).....                           | 78,995.62                 | 2,068.34                |
| Note: Includes gas PRV and pump delay relay.   |                           |                         |
| 23 52 16 13-0051 EA 3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000).....         | 113,737.18                | 2,303.45                |
| Note: Includes gas PRV and pump delay relay.   |                           |                         |
| 23 52 16 13-0052 EA 3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000).....                            | 121,218.93                | 2,303.45                |
| Note: Includes gas PRV and pump delay relay.   |                           |                         |
| <b>23 52 16 13-0053 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)</b>  |                           |                         |
| Note: Rated by gross rated output.   |                           |                         |
| 23 52 16 13-0054 EA 184 MBH 95% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211).....               | 11,656.54                 | 846.09                  |
| 23 52 16 13-0055 EA 264 MBH 95% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KHB285N).....              | 14,959.54                 | 940.17                  |
| <b>23 52 16 13-0056 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)</b>   |                           |                         |
| Note: Rated by gross rated output.   |                           |                         |
| 23 52 16 13-0057 EA 387 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0400N).....          | 16,999.80                 | 1,081.21                |
| 23 52 16 13-0058 EA 485 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0500N).....          | 21,018.59                 | 1,128.17                |
| 23 52 16 13-0059 EA 631 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0650N).....          | 25,665.75                 | 1,222.25                |
| 23 52 16 13-0060 EA 776 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0800N).....          | 30,621.26                 | 1,269.21                |
| 23 52 16 13-0061 EA 969 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX1000N).....          | 37,294.48                 | 1,363.28                |
| <b>23 52 16 13-0062 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)</b>   |                           |                         |
| Note: Rated by gross rated output.   |                           |                         |
| 23 52 16 13-0063 EA 1,203 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1251).....                   | 47,166.42                 | 1,597.98                |
| 23 52 16 13-0064 EA 1,443 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1501).....                   | 48,826.94                 | 1,833.37                |
| 23 52 16 13-0065 EA 1,684 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1751).....                   | 53,481.19                 | 1,950.57                |
| 23 52 16 13-0066 EA 1,923 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2001).....                   | 58,135.44                 | 2,068.34                |
| 23 52 16 13-0067 EA 2,400 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2501).....                   | 68,002.19                 | 2,162.41                |
| 23 52 16 13-0068 EA 2,883 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3001).....                   | 75,232.37                 | 2,256.34                |
| 23 52 16 13-0069 EA 3,364 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3501).....                   | 92,109.56                 | 2,350.42                |
| 23 52 16 13-0070 EA 3,843 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN4001).....                   | 101,654.56                | 2,444.35                |
| 23 52 16 13-0071 EA 4,804 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN5001).....                   | 124,363.94                | 2,538.28                |
| <b>23 52 16 13-0072 Patterson Kelley Stainless Steel Condensing Boilers (23 52 16 13)</b>  |                           |                         |
| <b>23 52 16 13-0073 Patterson Kelley Stainless Steel Condensing Boilers, SOLIS® Series (23 52 16 13-0072)</b>  |                           |                         |
| 23 52 16 13-0074 EA 1,500 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Patterson-Kelley SOLIS® SL-1500).....           | 48,739.86                 | 1,927.30                |
| 23 52 16 13-0075 EA 3,000 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Patterson-Kelley SOLIS® SL-3000).....           | 74,541.59                 | 2,303.45                |
| <b>23 52 16 13-0076 Patterson Kelley Stainless Steel Condensing Boilers, SONIC® Series (23 52 16 13-0072)</b>  |                           |                         |
| 23 52 16 13-0077 EA 650 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-650 SCD-650).....     | 25,617.91                 | 1,363.28                |
| 23 52 16 13-0078 EA 1,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-1000 SCD-1000)..... | 30,832.11                 | 1,692.33                |
| 23 52 16 13-0079 EA 2,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-2000).....          | 51,817.10                 | 2,068.34                |
| 23 52 16 13-0080 EA 4,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-4000).....          | 88,333.55                 | 2,444.49                |



|                         | MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|------------------|-----|-----|---|------------------------|----------------------|
| <b>23 52 16 13-0081</b> |                  |     |     | <b>Patterson Kelley Stainless Steel Condensing Boilers, STORM® Series</b> <small>(23 52 16 13-0072)</small>   |                        |                      |
|                         | 23 52 16 13-0082 | EA  |     | 1,250 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST1250).....   | 37,405.42              | 1,786.26             |
|                         | 23 52 16 13-0083 | EA  |     | 2,000 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST2000).....   | 61,057.33              | 2,068.34             |
|                         | 23 52 16 13-0084 | EA  |     | 4,000 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST4000).....   | 90,299.55              | 2,444.49             |
| <b>23 52 16 16</b>      |                  |     |     | <b>Aluminum Condensing Boilers</b> <small>(23 52 16)</small>  |                        |                      |
| <b>23 52 16 16-0001</b> |                  |     |     | <b>Weil McLain Aluminum Condensing Boilers</b> <small>(23 52 16 16)</small>   |                        |                      |
|                         | 23 52 16 16-0002 | EA  |     | 80 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80).....  | 9,394.88               | 611.12               |
|                         |                  |     |     | Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.  |                        |                      |
|                         | 23 52 16 16-0003 | EA  |     | 105 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80).....   | 10,365.40              | 705.20               |
|                         |                  |     |     | Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.  |                        |                      |
|                         | 23 52 16 16-0004 | EA  |     | 155 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80).....   | 11,706.43              | 846.09               |
|                         |                  |     |     | Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.  |                        |                      |
|                         | 23 52 16 16-0005 | EA  |     | 230 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80).....   | 13,135.91              | 940.17               |
|                         |                  |     |     | Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.  |                        |                      |
|                         | 23 52 16 16-0006 | EA  |     | 310 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80).....   | 17,001.23              | 1,081.21             |
|                         |                  |     |     | Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.  |                        |                      |
| <b>23 52 16 16-0007</b> |                  |     |     | <b>Patterson Kelley Mach Series Aluminum Condensing Boilers</b> <small>(23 52 16 16)</small>  |                        |                      |
|                         |                  |     |     | Note: Rated by gross rated output.  |                        |                      |
|                         | 23 52 16 16-0008 | EA  |     | 300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach CM300).....   | 16,785.94              | 1,034.24             |
|                         | 23 52 16 16-0009 | EA  |     | 450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C450).....  | 18,844.71              | 1,175.28             |
|                         | 23 52 16 16-0010 | EA  |     | 750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C750).....  | 21,491.56              | 1,410.25             |
|                         | 23 52 16 16-0011 | EA  |     | 900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C900).....  | 31,294.71              | 1,598.26             |
|                         | 23 52 16 16-0012 | EA  |     | 1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C1050).....   | 32,716.55              | 1,692.33             |
|                         | 23 52 16 16-0013 | EA  |     | 1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C1500).....   | 49,982.95              | 1,927.30             |
|                         | 23 52 16 16-0014 | EA  |     | 2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C2000).....   | 54,104.30              | 2,068.34             |
|                         | 23 52 16 16-0015 | EA  |     | 2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C2500).....   | 79,928.65              | 2,256.34             |
|                         | 23 52 16 16-0016 | EA  |     | 3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C3000).....   | 92,585.64              | 2,303.45             |
|                         | 23 52 16 16-0017 | EA  |     | 4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C4000).....   | 105,237.84             | 2,444.49             |
| <b>23 52 16 16-0018</b> |                  |     |     | <b>Buderus GB142 Wall Hung Aluminum Condensing Boilers</b> <small>(23 52 16 16)</small>   |                        |                      |
|                         |                  |     |     | Note: Includes standard controls.   |                        |                      |
|                         | 23 52 16 16-0019 | EA  |     | 75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24).....   | 7,217.33               | 564.16               |
|                         |                  |     |     | Note: Includes an aluminum heat exchanger and three speed circulating pump.   |                        |                      |
|                         | 23 52 16 16-0020 | EA  |     | 95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30).....   | 8,383.50               | 658.09               |
|                         |                  |     |     | Note: Includes an aluminum heat exchanger and three speed circulating pump.   |                        |                      |
|                         | 23 52 16 16-0021 | EA  |     | 143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45).....  | 9,687.77               | 799.13               |
|                         |                  |     |     | Note: Includes an aluminum heat exchanger and three speed circulating pump.   |                        |                      |
|                         | 23 52 16 16-0022 | EA  |     | 193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60).....  | 10,614.56              | 893.20               |
|                         |                  |     |     | Note: Includes an aluminum heat exchanger and three speed circulating pump.   |                        |                      |
|                         | 23 52 16 16-0023 | EA  |     | Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46).....  | 403.97                 | 141.04               |
|                         | 23 52 16 16-0024 | EA  |     | Optional Stainless Steel Concentric Hood For GB142 (Buderus SJT3).....  | 505.31                 | 141.04               |
|                         | 23 52 16 16-0025 | EA  |     | Optional GB Floor Stand For GB142 (Buderus 7098265).....  | 992.88                 | 141.04               |
| <b>23 52 16 16-0026</b> |                  |     |     | <b>Buderus GB162 Wall Hung Aluminum Condensing Boilers</b> <small>(23 52 16 16)</small>   |                        |                      |
|                         |                  |     |     | Note: Includes standard controls.   |                        |                      |
|                         | 23 52 16 16-0027 | EA  |     | 290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80).....  | 12,012.06              | 1,034.24             |
|                         |                  |     |     | Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.  |                        |                      |
|                         | 23 52 16 16-0028 | EA  |     | 333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100).....   | 14,713.21              | 1,081.21             |
|                         |                  |     |     | Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.  |                        |                      |
|                         | 23 52 16 16-0029 | EA  |     | 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2).....  | 27,966.50              | 1,269.21             |
|                         |                  |     |     | Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.       |                        |                      |
|                         | 23 52 16 16-0030 | EA  |     | 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2).....   | 26,180.44              | 1,269.21             |
|                         |                  |     |     | Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package. |                        |                      |
|                         | 23 52 16 16-0031 | EA  |     | 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2).....   | 33,368.80              | 1,363.28             |
|                         |                  |     |     | Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.       |                        |                      |
|                         | 23 52 16 16-0032 | EA  |     | 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2).....  | 31,582.74              | 1,363.28             |
|                         |                  |     |     | Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package. |                        |                      |
|                         | 23 52 16 16-0033 | EA  |     | 870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3).....  | 38,802.68              | 1,598.26             |
|                         |                  |     |     | Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.       |                        |                      |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 52 16 16-0034 EA 999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3) .....<br>Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.             | 46,765.10                 | 1,692.33                |
| 23 52 16 16-0035 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4) .....<br>Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.             | 48,093.82                 | 1,786.26                |
| 23 52 16 16-0036 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4) .....<br>Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.  | 48,809.14                 | 1,786.26                |
| 23 52 16 16-0037 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4) .....<br>Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.            | 58,475.30                 | 1,833.37                |
| 23 52 16 16-0038 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4) .....<br>Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package. | 59,190.63                 | 1,833.37                |
| 23 52 16 16-0039 EA EMS Control Module For Condensing Boiler (Buderus RC35) .....   | 794.62                    | 141.04                  |
| <b>23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers</b> <small>(23 52 16 16)</small><br>Note: Includes standard controls.   |                           |                         |
| 23 52 16 16-0041 EA 305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90).....<br>Note: Includes an aluminum heat exchanger.  | 16,955.39                 | 1,034.24                |
| 23 52 16 16-0042 EA 409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120).....<br>Note: Includes an aluminum heat exchanger.   | 19,727.66                 | 1,128.17                |
| 23 52 16 16-0043 EA 544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160).....<br>Note: Includes an aluminum heat exchanger.   | 24,620.98                 | 1,245.66                |
| 23 52 16 16-0044 EA 676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200).....<br>Note: Includes an aluminum heat exchanger.   | 28,263.22                 | 1,363.28                |
| 23 52 16 16-0045 EA 810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240).....<br>Note: Includes an aluminum heat exchanger.   | 33,738.31                 | 1,504.32                |
| 23 52 16 16-0046 EA 944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280).....<br>Note: Includes an aluminum heat exchanger.   | 37,245.48                 | 1,645.36                |
| 23 52 16 16-0047 EA Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....   | 526.55                    | 70.52                   |
| 23 52 16 16-0048 EA Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....   | 302.59                    | 70.52                   |
| 23 52 16 16-0049 EA Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550).....  | 415.67                    | 70.52                   |
| 23 52 16 16-0050 EA Optional Condensate Neutralization Tank For GB312 (Buderus 63035899) .....  | 835.69                    | 70.52                   |
| <b>23 52 16 19 Copper Water-Tube Condensing Boilers</b> <small>(23 52 16)</small>   |                           |                         |
| <b>23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers</b> <small>(23 52 16 19)</small>  |                           |                         |
| 23 52 16 19-0002 EA 1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....   | 46,842.54                 | 1,786.26                |
| 23 52 16 19-0003 EA 1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....   | 52,791.01                 | 1,974.41                |
| 23 52 16 19-0004 EA 2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....   | 57,710.34                 | 2,068.34                |
| 23 52 16 19-0005 EA 2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....   | 62,233.79                 | 2,162.41                |
| <b>23 52 16 23 Cast Iron Condensing Boilers</b> <small>(23 52 16)</small>   |                           |                         |
| <b>23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers</b> <small>(23 52 16 23)</small><br>Note: Rated by gross rated output.   |                           |                         |
| 23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....  | 16,655.35                 | 893.20                  |
| 23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....  | 24,266.14                 | 1,128.17                |
| 23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....  | 39,552.97                 | 1,316.18                |
| 23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....   | 51,895.29                 | 1,692.33                |
| 23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....   | 88,758.93                 | 1,974.41                |
| 23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....   | 75,213.77                 | 2,068.34                |
| 23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....   | 123,275.95                | 2,256.34                |
| 23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....   | 134,762.15                | 2,303.45                |
| <b>23 52 23 Cast-Iron Boilers</b> <small>(23 52)</small>  |                           |                         |
| <b>23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler</b> <small>(23 52 23)</small><br>Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.   |                           |                         |
| <b>23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler</b> <small>(23 52 23 00-0001)</small><br>Note: Field assembled boilers can only be used in situations where package units cannot be installed.  |                           |                         |
| 23 52 23 00-0003 EA 209 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 380).....<br>Note: Includes field assembly of individual sections and testing.   | 16,679.68                 | 3,272.52                |
| 23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 480).....<br>Note: Includes field assembly of individual sections and testing.   | 18,229.60                 | 3,490.69                |
| 23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 580).....<br>Note: Includes field assembly of individual sections and testing.   | 19,925.23                 | 3,708.86                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 680).....<br>Note: Includes field assembly of individual sections and testing.            | 21,502.67                 | 3,927.03                |
| 23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 780).....<br>Note: Includes field assembly of individual sections and testing.            | 22,960.07                 | 4,145.19                |
| 23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 880).....<br>Note: Includes field assembly of individual sections and testing.            | 24,952.18                 | 4,363.37                |
| 23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 980).....<br>Note: Includes field assembly of individual sections and testing.            | 26,493.63                 | 4,581.53                |
| 23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1080).....<br>Note: Includes field assembly of individual sections and testing.           | 27,719.03                 | 4,799.70                |
| 23 52 23 00-0011 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1180).....<br>Note: Includes field assembly of individual sections and testing.         | 28,939.94                 | 5,017.87                |
| 23 52 23 00-0012 EA 1,018 MBH Steam, 1,172 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1280).....<br>Note: Includes field assembly of individual sections and testing.       | 30,348.52                 | 5,236.04                |
| <b>23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)</b>   |                           |                         |
| 23 52 23 00-0014 EA 209 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 380).....<br>Note: Fire tested factory assembled package unit.                    | 12,165.86                 | 542.83                  |
| 23 52 23 00-0015 EA 297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 480).....<br>Note: Fire tested factory assembled package unit.                    | 13,480.79                 | 542.83                  |
| 23 52 23 00-0016 EA 386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 580).....<br>Note: Fire tested factory assembled package unit.                    | 15,486.75                 | 678.54                  |
| 23 52 23 00-0017 EA 476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 680).....<br>Note: Fire tested factory assembled package unit.                    | 16,827.51                 | 678.54                  |
| 23 52 23 00-0018 EA 565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 780).....<br>Note: Fire tested factory assembled package unit.                    | 18,595.53                 | 814.25                  |
| 23 52 23 00-0019 EA 654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 880).....<br>Note: Fire tested factory assembled package unit.                    | 20,368.71                 | 814.25                  |
| 23 52 23 00-0020 EA 743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 980).....<br>Note: Fire tested factory assembled package unit.                    | 22,218.32                 | 949.96                  |
| 23 52 23 00-0021 EA 833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1080).....<br>Note: Fire tested factory assembled package unit.                   | 23,752.44                 | 1,085.67                |
| 23 52 23 00-0022 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1180).....<br>Note: Fire tested factory assembled package unit.                 | 24,741.01                 | 1,085.67                |
| 23 52 23 00-0023 EA 1018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1280).....<br>Note: Fire tested factory assembled package unit.                 | 26,456.00                 | 1,221.37                |
| <b>23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)</b>   |                           |                         |
| Note: Field assembled boilers can only be used in situations where package units cannot be installed.  |                           |                         |
| 23 52 23 00-0025 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 380).....<br>Note: Includes field assembly of individual sections and testing.        | 17,447.97                 | 3,272.52                |
| 23 52 23 00-0026 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 19,135.23                 | 3,490.69                |
| 23 52 23 00-0027 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 20,747.91                 | 3,708.86                |
| 23 52 23 00-0028 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 22,548.35                 | 3,927.03                |
| 23 52 23 00-0029 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 24,034.31                 | 4,145.19                |
| 23 52 23 00-0030 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 26,200.47                 | 4,363.37                |
| 23 52 23 00-0031 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 27,565.16                 | 4,581.53                |
| 23 52 23 00-0032 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.    | 28,892.54                 | 4,799.70                |
| 23 52 23 00-0033 EA 922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.   | 30,114.81                 | 5,017.87                |
| 23 52 23 00-0034 EA 1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler.....<br>Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing. | 31,560.10                 | 5,236.04                |
| <b>23 52 23 00-0035 Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)</b>   |                           |                         |
| 23 52 23 00-0036 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 380).....<br>Note: Fire tested factory assembled package cast iron unit.      | 12,934.15                 | 542.83                  |
| 23 52 23 00-0037 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 480).....<br>Note: Fire tested factory assembled package cast iron unit.      | 14,386.41                 | 542.83                  |
| 23 52 23 00-0038 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 580).....<br>Note: Fire tested factory assembled package cast iron unit.      | 16,309.43                 | 678.54                  |
| 23 52 23 00-0039 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 680).....<br>Note: Fire tested factory assembled package cast iron unit.      | 17,873.20                 | 678.54                  |
| 23 52 23 00-0040 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 780).....<br>Note: Fire tested factory assembled package cast iron unit.      | 19,669.78                 | 814.25                  |
| 23 52 23 00-0041 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 880).....<br>Note: Fire tested factory assembled package cast iron unit.      | 21,617.01                 | 814.25                  |
| 23 52 23 00-0042 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 980).....<br>Note: Fire tested factory assembled package cast iron unit.      | 23,289.84                 | 949.96                  |
| 23 52 23 00-0043 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1080).....<br>Note: Fire tested factory assembled package cast iron unit.     | 24,925.94                 | 1,085.67                |
| 23 52 23 00-0044 EA 922 MBH Steam, 1,069 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1180).....<br>Note: Fire tested factory assembled package cast iron unit.   | 25,915.88                 | 1,085.67                |
| 23 52 23 00-0045 EA 1,018 MBH Steam, 1,172 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1280).....<br>Note: Fire tested factory assembled package cast iron unit. | 27,667.58                 | 1,221.37                |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 23 52 23 00-0046 |    | <b>Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23)</small><br>Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad. |           |          |
| 23 52 23 00-0047 |    | <b>Gas Fired Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small><br>Note: Field assembled boilers can only be used in situations where package units cannot be installed.  |           |          |
| 23 52 23 00-0048 | EA | 629 MBH Steam, 730 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 488).....   | 27,085.62 | 4,908.78 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0049 | EA | 845 MBH Steam, 979 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 588).....   | 29,900.72 | 5,208.76 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0050 | EA | 1072 MBH Steam, 1229 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 688).....   | 33,382.19 | 5,508.75 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0051 | EA | 1,311 MBH Steam, 1,478 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 788).....   | 36,451.18 | 5,808.73 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0052 | EA | 1,543 MBH Steam, 1,728 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 888).....   | 39,121.25 | 6,108.70 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0053 | EA | 1,766 MBH Steam, 1,977 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 988).....   | 42,985.03 | 6,408.69 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0054 | EA | 1,988 MBH Steam, 2,227 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1088).....  | 45,680.07 | 6,708.67 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0055 | EA | 2,211 MBH Steam, 2,477 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1188).....  | 48,065.78 | 7,008.65 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0056 | EA | 2,434 MBH Steam, 2,726 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1288).....  | 51,246.57 | 7,308.63 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0057 | EA | 2,657 MBH Steam, 2,976 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1388).....  | 53,807.40 | 7,608.61 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0058 | EA | 2,880 MBH Steam, 3,225 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1488).....  | 58,030.86 | 7,908.59 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0059 | EA | 3,102 MBH Steam, 3,475 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1588).....  | 60,468.10 | 8,208.57 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0060 | EA | 3,325 MBH Steam, 3,724 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1688).....  | 63,052.40 | 8,508.56 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0061 | EA | 3,548 MBH Steam, 3,974 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1788).....  | 65,930.54 | 8,808.54 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0062 | EA | 3,771 MBH Steam, 4,223 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1888).....  | 68,274.61 | 9,108.51 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0063 |    | <b>Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small>   |           |          |
| 23 52 23 00-0064 | EA | 629 MBH Steam, 730 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 488).....   | 22,237.36 | 949.96   |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0065 | EA | 845 MBH Steam, 979 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 588).....   | 25,227.82 | 1,085.67 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0066 | EA | 1,072 MBH Steam, 1,229 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 688).....   | 28,900.92 | 1,221.37 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0067 | EA | 1,311 MBH Steam, 1,478 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 788).....   | 32,132.07 | 1,357.08 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0068 | EA | 1,543 MBH Steam, 1,728 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 888).....   | 34,432.85 | 1,357.08 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0069 | EA | 1,766 MBH Steam, 1,977 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 988).....   | 38,475.80 | 1,492.79 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0070 | EA | 1,988 MBH Steam, 2,227 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1088).....  | 40,805.14 | 1,492.79 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0071 | EA | 2,211 MBH Steam, 2,477 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1188).....  | 43,365.92 | 1,628.50 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0072 | EA | 2,434 MBH Steam, 2,726 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1288).....  | 46,182.07 | 1,628.50 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0073 | EA | 2,657 MBH Steam, 2,976 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1388).....  | 48,918.29 | 1,764.21 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0074 | EA | 2,880 MBH Steam, 3,225 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1488).....  | 51,571.50 | 1,899.91 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0075 | EA | 3,102 MBH Steam, 3,475 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1588).....  | 53,643.84 | 1,899.91 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0076 | EA | 3,325 MBH Steam, 3,724 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1688).....  | 56,404.49 | 2,035.62 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0077 | EA | 3,548 MBH Steam, 3,974 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1788).....  | 58,916.04 | 2,035.62 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0078 | EA | 3,771 MBH Steam, 4,223 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1888).....  | 61,464.53 | 2,171.33 |
|                  |    | Note: Fire tested factory assembled package unit.  |           |          |
| 23 52 23 00-0079 |    | <b>Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small><br>Note: Field assembled boilers can only be used in situations where package units cannot be installed.  |           |          |
| 23 52 23 00-0080 | EA | 629 MBH Steam, 730 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 488).....   | 28,032.04 | 4,908.78 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0081 | EA | 845 MBH Steam, 979 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 588).....   | 30,841.70 | 5,208.76 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0082 | EA | 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 688).....   | 34,567.94 | 5,508.75 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |
| 23 52 23 00-0083 | EA | 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 788).....   | 37,756.59 | 5,808.73 |
|                  |    | Note: Includes field assembly of individual sections and testing.  |           |          |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 52 23 00-0084 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 888) .....<br>Note: Includes field assembly of individual sections and testing.                         | 40,293.39                 | 6,108.70                |
| 23 52 23 00-0085 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 988) .....<br>Note: Includes field assembly of individual sections and testing.                         | 44,083.74                 | 6,408.69                |
| 23 52 23 00-0086 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1088) .....<br>Note: Includes field assembly of individual sections and testing.                        | 47,329.51                 | 6,708.67                |
| 23 52 23 00-0087 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1188) .....<br>Note: Includes field assembly of individual sections and testing.                        | 49,715.21                 | 7,008.65                |
| 23 52 23 00-0088 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1288) .....<br>Note: Includes field assembly of individual sections and testing.                        | 52,863.37                 | 7,308.63                |
| 23 52 23 00-0089 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1388) .....<br>Note: Includes field assembly of individual sections and testing.                        | 56,119.06                 | 7,608.61                |
| 23 52 23 00-0090 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1488) .....<br>Note: Includes field assembly of individual sections and testing.                        | 60,459.46                 | 7,908.59                |
| 23 52 23 00-0091 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1588) .....<br>Note: Includes field assembly of individual sections and testing.                        | 63,713.94                 | 8,208.57                |
| 23 52 23 00-0092 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1688) .....<br>Note: Includes field assembly of individual sections and testing.                        | 65,479.64                 | 8,508.56                |
| 23 52 23 00-0093 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1788) .....<br>Note: Includes field assembly of individual sections and testing.                        | 68,284.36                 | 8,808.54                |
| 23 52 23 00-0094 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1888) .....<br>Note: Includes field assembly of individual sections and testing.                        | 70,654.26                 | 9,108.51                |
| <b>23 52 23 00-0095 Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small>  |                           |                         |
| 23 52 23 00-0096 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 488) .....<br>Note: Fire tested factory assembled package cast iron unit.                           | 23,183.78                 | 949.96                  |
| 23 52 23 00-0097 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 588) .....<br>Note: Fire tested factory assembled package cast iron unit.                           | 26,168.80                 | 1,085.67                |
| 23 52 23 00-0098 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 688) .....<br>Note: Fire tested factory assembled package cast iron unit.                       | 30,073.07                 | 1,221.37                |
| 23 52 23 00-0099 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 788) .....<br>Note: Fire tested factory assembled package cast iron unit.                       | 33,437.48                 | 1,357.08                |
| 23 52 23 00-0100 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 888) .....<br>Note: Fire tested factory assembled package cast iron unit.                       | 35,607.72                 | 1,357.08                |
| 23 52 23 00-0101 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 988) .....<br>Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit. | 39,574.52                 | 1,492.79                |
| 23 52 23 00-0102 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1088) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 42,454.57                 | 1,492.79                |
| 23 52 23 00-0103 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1188) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 45,015.36                 | 1,628.50                |
| 23 52 23 00-0104 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1288) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 47,798.87                 | 1,628.50                |
| 23 52 23 00-0105 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1388) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 51,236.75                 | 1,764.21                |
| 23 52 23 00-0106 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1488) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 54,000.11                 | 1,899.91                |
| 23 52 23 00-0107 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1588) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 55,529.88                 | 1,899.91                |
| 23 52 23 00-0108 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1688) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 58,831.73                 | 2,035.62                |
| 23 52 23 00-0109 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1788) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 61,269.86                 | 2,035.62                |
| 23 52 23 00-0110 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1888) .....<br>Note: Fire tested factory assembled package cast iron unit.                      | 63,816.98                 | 2,171.33                |
| <b>23 52 23 00-0111 Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23)</small>  |                           |                         |
| Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.                                       |                           |                         |
| <b>23 52 23 00-0112 Gas Fired Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>  |                           |                         |
| Note: Field assembled boilers can only be used in situations where package units cannot be installed.  |                           |                         |
| 23 52 23 00-0113 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-894) .....<br>Note: Includes field assembly of individual sections and testing.                           | 73,766.54                 | 9,544.85                |
| 23 52 23 00-0114 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-994) .....<br>Note: Includes field assembly of individual sections and testing.                           | 79,971.86                 | 10,090.27               |
| 23 52 23 00-0115 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1094) .....<br>Note: Includes field assembly of individual sections and testing.                          | 85,639.45                 | 10,635.70               |
| 23 52 23 00-0116 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1194) .....<br>Note: Includes field assembly of individual sections and testing.                          | 91,188.78                 | 11,181.11               |
| 23 52 23 00-0117 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1294) .....<br>Note: Includes field assembly of individual sections and testing.                          | 96,789.75                 | 11,726.53               |
| 23 52 23 00-0118 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1394) .....<br>Note: Includes field assembly of individual sections and testing.                          | 103,955.43                | 12,271.96               |
| 23 52 23 00-0119 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1494) .....<br>Note: Includes field assembly of individual sections and testing.                          | 109,233.06                | 12,817.37               |
| 23 52 23 00-0120 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1594) .....<br>Note: Includes field assembly of individual sections and testing.                          | 114,339.89                | 13,362.79               |
| 23 52 23 00-0121 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1694) .....<br>Note: Includes field assembly of individual sections and testing.                          | 122,648.99                | 13,908.22               |
| 23 52 23 00-0122 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1794) .....<br>Note: Includes field assembly of individual sections and testing.                          | 127,752.87                | 14,453.64               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 52 23 00-0123 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1894) .....<br>Note: Includes field assembly of individual sections and testing.   | 132,131.85                | 14,999.05               |
| 23 52 23 00-0124 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1994) .....<br>Note: Includes field assembly of individual sections and testing.   | 140,151.49                | 15,544.48               |
| 23 52 23 00-0125 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2094) .....<br>Note: Includes field assembly of individual sections and testing.   | 145,297.73                | 16,089.90               |
| 23 52 23 00-0126 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2194) .....<br>Note: Includes field assembly of individual sections and testing.   | 153,501.71                | 16,635.31               |
| 23 52 23 00-0127 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2294) .....<br>Note: Includes field assembly of individual sections and testing.   | 158,918.90                | 17,180.74               |
| 23 52 23 00-0128 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2394) .....<br>Note: Includes field assembly of individual sections and testing.   | 164,846.03                | 17,726.16               |
| 23 52 23 00-0129 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2494) .....<br>Note: Includes field assembly of individual sections and testing.   | 169,937.55                | 18,271.57               |
| 23 52 23 00-0130 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2594) .....<br>Note: Includes field assembly of individual sections and testing.   | 175,175.30                | 18,817.00               |
| <b>23 52 23 00-0131 Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>   |                           |                         |
| 23 52 23 00-0132 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-894) .....<br>Note: Fire tested factory assembled package cast iron unit.  | 67,316.39                 | 1,764.21                |
| 23 52 23 00-0133 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-994) .....<br>Note: Fire tested factory assembled package cast iron unit.  | 73,403.09                 | 1,899.91                |
| 23 52 23 00-0134 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1094) .....<br>Note: Fire tested factory assembled package cast iron unit. | 78,948.62                 | 2,035.62                |
| 23 52 23 00-0135 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1194) .....<br>Note: Fire tested factory assembled package cast iron unit. | 84,379.88                 | 2,171.33                |
| 23 52 23 00-0136 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1294) .....<br>Note: Fire tested factory assembled package cast iron unit. | 89,315.95                 | 2,171.33                |
| 23 52 23 00-0137 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1394) .....<br>Note: Fire tested factory assembled package cast iron unit. | 94,619.56                 | 2,307.03                |
| 23 52 23 00-0138 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1494) .....<br>Note: Fire tested factory assembled package cast iron unit. | 99,233.36                 | 2,307.03                |
| 23 52 23 00-0139 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1594) .....<br>Note: Fire tested factory assembled package cast iron unit. | 104,219.96                | 2,442.74                |
| 23 52 23 00-0140 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1694) .....<br>Note: Fire tested factory assembled package cast iron unit. | 111,866.11                | 2,442.74                |
| 23 52 23 00-0141 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1794) .....<br>Note: Fire tested factory assembled package cast iron unit. | 116,851.33                | 2,578.45                |
| 23 52 23 00-0142 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1894) .....<br>Note: Fire tested factory assembled package cast iron unit. | 120,566.30                | 2,578.45                |
| 23 52 23 00-0143 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1994) .....<br>Note: Fire tested factory assembled package cast iron unit. | 128,468.46                | 2,714.15                |
| 23 52 23 00-0144 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2094) .....<br>Note: Fire tested factory assembled package cast iron unit. | 132,950.36                | 2,714.15                |
| 23 52 23 00-0145 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2194) .....<br>Note: Fire tested factory assembled package cast iron unit. | 141,059.20                | 2,849.86                |
| 23 52 23 00-0146 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2294) .....<br>Note: Fire tested factory assembled package cast iron unit. | 145,787.22                | 2,849.86                |
| 23 52 23 00-0147 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2394) .....<br>Note: Fire tested factory assembled package cast iron unit. | 151,592.48                | 2,985.57                |
| 23 52 23 00-0148 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2494) .....<br>Note: Fire tested factory assembled package cast iron unit. | 156,021.35                | 2,985.57                |
| 23 52 23 00-0149 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2594) .....<br>Note: Fire tested factory assembled package cast iron unit. | 161,138.47                | 3,121.28                |
| <b>23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>   |                           |                         |
| Note: Field assembled boilers can only be used in situations where package units cannot be installed.   |                           |                         |
| 23 52 23 00-0151 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-894) .....<br>Note: Includes field assembly of individual sections and testing.    | 69,708.90                 | 9,544.85                |
| 23 52 23 00-0152 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-994) .....<br>Note: Includes field assembly of individual sections and testing.    | 75,914.22                 | 10,090.27               |
| 23 52 23 00-0153 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1094) .....<br>Note: Includes field assembly of individual sections and testing.   | 83,461.05                 | 10,635.70               |
| 23 52 23 00-0154 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1194) .....<br>Note: Includes field assembly of individual sections and testing.   | 88,519.49                 | 11,181.11               |
| 23 52 23 00-0155 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1294) .....<br>Note: Includes field assembly of individual sections and testing.   | 93,785.95                 | 11,726.53               |
| 23 52 23 00-0156 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1394) .....<br>Note: Includes field assembly of individual sections and testing.   | 100,577.69                | 12,271.96               |
| 23 52 23 00-0157 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1494) .....<br>Note: Includes field assembly of individual sections and testing.   | 106,108.24                | 12,817.37               |
| 23 52 23 00-0158 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1594) .....<br>Note: Includes field assembly of individual sections and testing.   | 111,217.79                | 13,362.79               |
| 23 52 23 00-0159 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1694) .....<br>Note: Includes field assembly of individual sections and testing.   | 120,497.79                | 13,908.22               |
| 23 52 23 00-0160 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1794) .....<br>Note: Includes field assembly of individual sections and testing.   | 125,603.03                | 14,453.64               |
| 23 52 23 00-0161 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1894) .....<br>Note: Includes field assembly of individual sections and testing.   | 130,706.78                | 14,999.05               |
| 23 52 23 00-0162 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1994) .....<br>Note: Includes field assembly of individual sections and testing.   | 140,161.01                | 15,544.48               |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 52 23 00-0163 EA 4,285 MBH Steam, 4970 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2094) .....<br>Note: Includes field assembly of individual sections and testing.      | 145,307.25                | 16,089.90               |
| 23 52 23 00-0164 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2194) .....<br>Note: Includes field assembly of individual sections and testing.     | 153,730.15                | 16,635.31               |
| 23 52 23 00-0165 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2294) .....<br>Note: Includes field assembly of individual sections and testing.     | 159,145.99                | 17,180.74               |
| 23 52 23 00-0166 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2394) .....<br>Note: Includes field assembly of individual sections and testing.     | 164,956.17                | 17,726.16               |
| 23 52 23 00-0167 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2494) .....<br>Note: Includes field assembly of individual sections and testing.     | 170,047.69                | 18,271.57               |
| 23 52 23 00-0168 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2594) .....<br>Note: Includes field assembly of individual sections and testing.     | 175,293.60                | 18,817.00               |
| <b>23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)</b>  |                           |                         |
| 23 52 23 00-0170 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-894) .....<br>Note: Fire tested factory assembled package cast iron unit.    | 63,038.46                 | 1,764.21                |
| 23 52 23 00-0171 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-994) .....<br>Note: Fire tested factory assembled package cast iron unit.    | 69,125.16                 | 1,899.91                |
| 23 52 23 00-0172 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 76,549.93                 | 2,035.62                |
| 23 52 23 00-0173 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 81,490.30                 | 2,171.33                |
| 23 52 23 00-0174 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 86,091.87                 | 2,171.33                |
| 23 52 23 00-0175 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 91,021.53                 | 2,307.03                |
| 23 52 23 00-0176 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 95,888.25                 | 2,307.03                |
| 23 52 23 00-0177 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 100,874.85                | 2,442.74                |
| 23 52 23 00-0178 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 109,494.62                | 2,442.74                |
| 23 52 23 00-0179 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 114,478.48                | 2,578.45                |
| 23 52 23 00-0180 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 118,920.95                | 2,578.45                |
| 23 52 23 00-0181 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 128,257.69                | 2,714.15                |
| 23 52 23 00-0182 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 132,739.59                | 2,714.15                |
| 23 52 23 00-0183 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 141,040.16                | 2,849.86                |
| 23 52 23 00-0184 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 145,794.02                | 2,849.86                |
| 23 52 23 00-0185 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 151,482.34                | 2,985.57                |
| 23 52 23 00-0186 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 155,911.20                | 2,985.57                |
| 23 52 23 00-0187 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594) .....<br>Note: Fire tested factory assembled package cast iron unit.   | 161,036.48                | 3,121.28                |
| <b>23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)</b>  |                           |                         |
| Note: Field assembled boilers can only be used in situations where package units cannot be installed.   |                           |                         |
| 23 52 23 00-0189 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-894) .....<br>Note: Includes field assembly of individual sections and testing.  | 75,042.03                 | 9,544.85                |
| 23 52 23 00-0190 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-994) .....<br>Note: Includes field assembly of individual sections and testing.  | 81,248.71                 | 10,090.27               |
| 23 52 23 00-0191 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1094) .....<br>Note: Includes field assembly of individual sections and testing. | 87,264.41                 | 10,635.70               |
| 23 52 23 00-0192 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1194) .....<br>Note: Includes field assembly of individual sections and testing. | 92,951.08                 | 11,181.11               |
| 23 52 23 00-0193 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1294) .....<br>Note: Includes field assembly of individual sections and testing. | 98,520.77                 | 11,726.53               |
| 23 52 23 00-0194 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1394) .....<br>Note: Includes field assembly of individual sections and testing. | 104,594.54                | 12,271.96               |
| 23 52 23 00-0195 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1494) .....<br>Note: Includes field assembly of individual sections and testing. | 111,355.71                | 12,817.37               |
| 23 52 23 00-0196 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1594) .....<br>Note: Includes field assembly of individual sections and testing. | 116,797.05                | 13,362.79               |
| 23 52 23 00-0197 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1694) .....<br>Note: Includes field assembly of individual sections and testing. | 125,319.64                | 13,908.22               |
| 23 52 23 00-0198 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1794) .....<br>Note: Includes field assembly of individual sections and testing. | 130,423.52                | 14,453.64               |
| 23 52 23 00-0199 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1894) .....<br>Note: Includes field assembly of individual sections and testing. | 134,897.68                | 14,999.05               |
| 23 52 23 00-0200 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1994) .....<br>Note: Includes field assembly of individual sections and testing. | 143,009.79                | 15,544.48               |
| 23 52 23 00-0201 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2094) .....<br>Note: Includes field assembly of individual sections and testing. | 149,515.83                | 16,089.90               |
| 23 52 23 00-0202 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2194) .....<br>Note: Includes field assembly of individual sections and testing. | 158,448.66                | 16,635.31               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 52 23 00-0203 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2294).....                        | 163,825.06                | 17,180.74               |
| Note: Includes field assembly of individual sections and testing.  |                           |                         |
| 23 52 23 00-0204 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2394).....                        | 170,005.11                | 17,726.16               |
| Note: Includes field assembly of individual sections and testing.  |                           |                         |
| 23 52 23 00-0205 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2494).....                        | 175,097.99                | 18,271.57               |
| Note: Includes field assembly of individual sections and testing.  |                           |                         |
| 23 52 23 00-0206 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2594).....                        | 180,339.82                | 18,817.00               |
| Note: Includes field assembly of individual sections and testing.  |                           |                         |
| <b>23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>                |                           |                         |
| 23 52 23 00-0208 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-894).....                 | 68,691.14                 | 1,764.21                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0209 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-994).....                 | 74,779.21                 | 1,899.91                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0210 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094).....                | 80,676.92                 | 2,035.62                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0211 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194).....                | 86,242.80                 | 2,171.33                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0212 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294).....                | 91,147.60                 | 2,171.33                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0213 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394).....                | 95,357.93                 | 2,307.03                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0214 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494).....                | 101,455.28                | 2,307.03                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0215 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594).....                | 106,775.02                | 2,442.74                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0216 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694).....                | 114,637.39                | 2,442.74                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0217 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794).....                | 119,619.88                | 2,578.45                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0218 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894).....                | 123,431.40                | 2,578.45                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0219 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994).....                | 131,426.03                | 2,714.15                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0220 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094).....                | 137,269.09                | 2,714.15                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0221 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194).....                | 146,079.58                | 2,849.86                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0222 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294).....                | 150,794.01                | 2,849.86                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0223 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394).....                | 156,850.83                | 2,985.57                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0224 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494).....                | 161,281.06                | 2,985.57                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| 23 52 23 00-0225 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594).....                | 166,403.61                | 3,121.28                |
| Note: Fire tested factory assembled package cast iron unit.  |                           |                         |
| <b>23 52 33 Water-Tube Boilers</b> <small>(23 52)</small>  |                           |                         |
| <b>23 52 33 13 Finned Water-Tube Boilers</b> <small>(23 52 33)</small>   |                           |                         |
| <b>23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler</b> <small>(23 52 33 13)</small>      |                           |                         |
| 23 52 33 13-0002 EA 200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                       | 9,584.77                  | 837.77                  |
| 23 52 33 13-0003 EA 300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                       | 10,554.85                 | 930.85                  |
| 23 52 33 13-0004 EA 400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                       | 12,162.99                 | 1,117.03                |
| 23 52 33 13-0005 EA 500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                       | 15,327.43                 | 1,163.57                |
| 23 52 33 13-0006 EA 750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                       | 18,029.59                 | 1,396.29                |
| 23 52 33 13-0007 EA 1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                     | 22,122.70                 | 1,675.55                |
| 23 52 33 13-0008 EA 1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                     | 25,024.31                 | 1,768.63                |
| 23 52 33 13-0009 EA 1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                     | 27,679.05                 | 1,908.26                |
| 23 52 33 13-0010 EA 1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                     | 30,119.32                 | 2,001.34                |
| 23 52 33 13-0011 EA 2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....                     | 32,241.37                 | 2,047.89                |
| <b>23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler</b> <small>(23 52 33 13)</small> |                           |                         |
| 23 52 33 13-0013 EA 1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....                 | 32,468.32                 | 1,675.55                |
| 23 52 33 13-0014 EA 1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....                 | 40,406.35                 | 1,908.26                |
| 23 52 33 13-0015 EA 2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....                 | 43,067.48                 | 2,047.89                |
| 23 52 33 13-0016 EA 2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....                 | 60,486.50                 | 2,327.14                |
| 23 52 33 13-0017 EA 3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....                 | 63,573.94                 | 2,606.40                |
| <b>23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler</b> <small>(23 52 33 13)</small>                                      |                           |                         |
| 23 52 33 13-0019 EA 340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402).....                            | 14,405.80                 | 751.74                  |
| For High And Low Gas Pressure Switch With Manual Reset, Add  | 518.18                    |                         |
| For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add   | 459.04                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 23 52 33 13-0020 EA 425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>     | 17,315.86<br>518.18<br>459.04 | 939.32                  |
| 23 52 33 13-0021 EA 552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>   | 18,651.67<br>518.18<br>459.04 | 1,128.31                |
| 23 52 33 13-0022 EA 637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>   | 19,145.92<br>518.18<br>459.04 | 1,128.31                |
| 23 52 33 13-0023 EA 841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>   | 23,756.02<br>518.18<br>459.04 | 1,410.39                |
| 23 52 33 13-0024 EA 1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>   | 27,383.31<br>518.18<br>459.04 | 1,410.39                |
| 23 52 33 13-0025 EA 1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>   | 29,782.73<br>518.18<br>459.04 | 1,410.39                |
| 23 52 33 13-0026 EA 1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>   | 32,203.24<br>518.18<br>459.04 | 1,692.47                |
| 23 52 33 13-0027 EA 1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072).....<br><i>For High And Low Gas Pressure Switch With Manual Reset, Add<br/>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> | 38,072.20<br>518.18<br>459.04 | 1,974.55                |
| <b>23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump</b> <small>(23 52 33 13)</small>  |                               |                         |
| 23 52 33 13-0029 EA 385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B).....  | 14,064.78                     | 1,033.25                |
| 23 52 33 13-0030 EA 420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B).....   | 15,151.19                     | 930.85                  |
| 23 52 33 13-0031 EA 546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B).....   | 16,807.02                     | 1,117.03                |
| 23 52 33 13-0032 EA 630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B).....   | 17,850.76                     | 1,268.08                |
| 23 52 33 13-0033 EA 756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B).....   | 19,829.19                     | 1,396.29                |
| 23 52 33 13-0034 EA 832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B).....   | 21,320.96                     | 1,502.91                |
| 23 52 33 13-0035 EA 1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....  | 24,347.18                     | 1,675.55                |
| 23 52 33 13-0036 EA 1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....   | 28,202.86                     | 1,768.63                |
| 23 52 33 13-0037 EA 1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....   | 29,940.22                     | 1,908.26                |
| 23 52 33 13-0038 EA 1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....   | 35,630.49                     | 1,954.80                |
| 23 52 33 13-0039 EA 1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....   | 35,771.53                     | 2,001.34                |
| 23 52 33 13-0040 EA 1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....   | 41,711.43                     | 2,047.89                |
| <b>23 52 33 16 Steel Water-Tube Boilers</b> <small>(23 52 33)</small>  |                               |                         |
| <b>23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler</b> <small>(23 52 33 16)</small>   |                               |                         |
| Note: Compliant with BAAQMD.   |                               |                         |
| 23 52 33 16-0002 EA 1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....   | 88,155.62                     | 2,256.63                |
| 23 52 33 16-0003 EA 1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....   | 94,945.20                     | 2,820.78                |
| 23 52 33 16-0004 EA 2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....   | 96,766.19                     | 3,102.86                |
| 23 52 33 16-0005 EA 2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....   | 104,248.46                    | 3,384.94                |
| 23 52 33 16-0006 EA 3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....   | 107,925.32                    | 3,808.06                |
| 23 52 33 16-0007 EA 3,750 MBH Output/3,188 MBH Input, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....   | 119,147.61                    | 4,231.17                |
| 23 52 33 16-0008 EA 4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....   | 124,146.68                    | 4,372.21                |
| <b>23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler</b> <small>(23 52 33 16)</small>  |                               |                         |
| Note: Compliant with BAAQMD.   |                               |                         |
| 23 52 33 16-0010 EA 1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100LS).....  | 102,870.75                    | 2,538.70                |
| 23 52 33 16-0011 EA 1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150LS).....  | 108,119.21                    | 2,961.82                |
| 23 52 33 16-0012 EA 2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200LS).....  | 111,199.24                    | 3,243.90                |
| 23 52 33 16-0013 EA 2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250LS).....  | 124,340.56                    | 3,525.98                |
| 23 52 33 16-0014 EA 3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300LS).....  | 128,992.19                    | 3,808.06                |
| 23 52 33 16-0015 EA 3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350LS).....  | 138,013.37                    | 4,231.17                |
| 23 52 33 16-0016 EA 4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400LS).....   | 146,131.75                    | 4,513.25                |
| 23 52 33 16-0017 EA 5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500LS).....   | 243,223.61                    | 4,795.33                |
| 23 52 33 16-0018 EA 6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600LS).....   | 263,283.03                    | 5,077.41                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 52 33 16-0019 EA 7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700LS).....  | 277,053.89                | 5,359.48                |
| 23 52 33 16-0020 EA 8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800LS).....  | 284,221.39                | 5,641.56                |
| <b>23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)</b>   |                           |                         |
| Note: Compliant with BAAQMD.  |                           |                         |
| 23 52 33 16-0022 EA 1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....  | 110,730.93                | 2,538.70                |
| 23 52 33 16-0023 EA 1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....  | 117,553.19                | 2,961.82                |
| 23 52 33 16-0024 EA 2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....  | 121,890.06                | 3,243.90                |
| 23 52 33 16-0025 EA 2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....  | 135,346.14                | 3,525.98                |
| 23 52 33 16-0026 EA 3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS).....  | 139,997.77                | 3,808.06                |
| 23 52 33 16-0027 EA 3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS).....  | 147,447.34                | 4,231.17                |
| 23 52 33 16-0028 EA 4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS).....   | 155,873.89                | 4,513.25                |
| 23 52 33 16-0029 EA 5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS).....   | 252,342.83                | 4,795.33                |
| 23 52 33 16-0030 EA 6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS).....   | 273,976.05                | 5,077.41                |
| 23 52 33 16-0031 EA 7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS).....   | 282,715.15                | 5,359.48                |
| 23 52 33 16-0032 EA 8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS).....   | 294,914.41                | 5,641.56                |
| 23 52 33 16-0033 EA 9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS).....   | 327,865.76                | 5,923.64                |
| 23 52 33 16-0034 EA 10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS).....   | 473,545.03                | 6,205.72                |
| 23 52 33 16-0035 EA 12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS).....   | 497,535.66                | 6,487.80                |
| <b>23 52 36 Fire-Box Boiler (23 52)</b>   |                           |                         |
| <b>23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36)</b>  |                           |                         |
| Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP). boiler sizes are based on HP rating and gross output. |                           |                         |
| 23 52 36 00-0002 EA 40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 81,976.89                 | 3,256.99                |
| 23 52 36 00-0003 EA 46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 85,749.69                 | 3,528.40                |
| 23 52 36 00-0004 EA 53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 89,816.05                 | 3,799.82                |
| 23 52 36 00-0005 EA 61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 97,112.36                 | 4,071.24                |
| 23 52 36 00-0006 EA 69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 101,472.33                | 4,342.65                |
| 23 52 36 00-0007 EA 80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 105,759.06                | 4,614.07                |
| 23 52 36 00-0008 EA 100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 117,547.86                | 4,885.49                |
| 23 52 36 00-0009 EA 127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 135,943.02                | 5,428.32                |
| 23 52 36 00-0010 EA 151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 154,646.56                | 5,971.15                |
| 23 52 36 00-0011 EA 183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 169,668.38                | 6,581.83                |
| 23 52 36 00-0012 EA 220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 184,690.38                | 7,192.51                |
| 23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 194,474.08                | 8,413.89                |
| 23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....   | 236,777.02                | 9,635.26                |
| 23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 280,107.66                | 10,856.64               |
| 23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 323,930.02                | 12,213.71               |
| 23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....  | 366,633.31                | 13,231.51               |
| <b>23 52 39 Fire-Tube Boilers (23 52)</b>   |                           |                         |
| <b>23 52 39 13 Scotch Marine Boilers (23 52 39)</b>   |                           |                         |
| <b>23 52 39 13-0001 15 PSI Steam Scotch Marine Boilers (23 52 39 13)</b>  |                           |                         |
| Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.  |                           |                         |
| <b>23 52 39 13-0002 15 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0001)</b>   |                           |                         |
| 23 52 39 13-0003 EA 30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....   | 65,477.12                 | 1,492.79                |
| Note: Burnham Series 3. Fire tested factory assembled unit.   |                           |                         |
| 23 52 39 13-0004 EA 40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....   | 70,495.42                 | 1,628.50                |
| Note: Burnham Series 3. Fire tested factory assembled unit.   |                           |                         |
| 23 52 39 13-0005 EA 50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....   | 76,565.10                 | 1,764.21                |
| Note: Burnham Series 3. Fire tested factory assembled unit.   |                           |                         |
| 23 52 39 13-0006 EA 60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....   | 80,140.55                 | 2,035.62                |
| Note: Burnham Series 3. Fire tested factory assembled unit.   |                           |                         |
| 23 52 39 13-0007 EA 70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....   | 84,002.95                 | 2,171.33                |
| Note: Burnham Series 3. Fire tested factory assembled unit.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 52 39 13-0008 EA 80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 87,958.81                 | 2,307.03                |
| 23 52 39 13-0009 EA 90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 90,671.45                 | 2,374.89                |
| 23 52 39 13-0010 EA 100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 95,669.49                 | 2,442.74                |
| 23 52 39 13-0011 EA 125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 108,132.48                | 2,714.15                |
| 23 52 39 13-0012 EA 150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 122,804.92                | 2,985.57                |
| 23 52 39 13-0013 EA 175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 134,709.47                | 3,290.92                |
| 23 52 39 13-0014 EA 200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 146,611.21                | 3,596.26                |
| 23 52 39 13-0015 EA 250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 154,949.79                | 4,206.94                |
| 23 52 39 13-0016 EA 300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 188,225.09                | 4,817.63                |
| 23 52 39 13-0017 EA 350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 203,930.00                | 5,428.32                |
| 23 52 39 13-0018 EA 400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 239,844.24                | 6,039.00                |
| 23 52 39 13-0019 EA 500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 290,795.06                | 6,649.68                |
| 23 52 39 13-0020 EA 600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 339,828.89                | 7,260.37                |
| 23 52 39 13-0021 EA 700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 386,767.99                | 7,871.06                |
| 23 52 39 13-0022 EA 800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 431,851.41                | 8,481.75                |
| 23 52 39 13-0023 EA 900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 669,340.74                | 9,092.43                |
| 23 52 39 13-0024 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit. | 728,149.61                | 9,703.11                |
| <b>23 52 39 13-0025 15 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)</b>   |                           |                         |
| 23 52 39 13-0026 EA 30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 60,766.56                 | 1,492.79                |
| 23 52 39 13-0027 EA 40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 65,430.31                 | 1,628.50                |
| 23 52 39 13-0028 EA 50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 71,059.53                 | 1,764.21                |
| 23 52 39 13-0029 EA 60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 77,506.68                 | 2,035.62                |
| 23 52 39 13-0030 EA 70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 80,896.34                 | 2,171.33                |
| 23 52 39 13-0031 EA 80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 84,279.62                 | 2,307.03                |
| 23 52 39 13-0032 EA 90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 87,400.42                 | 2,374.89                |
| 23 52 39 13-0033 EA 100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 93,575.91                 | 2,442.74                |
| 23 52 39 13-0034 EA 125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 108,232.32                | 2,714.15                |
| 23 52 39 13-0035 EA 150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 122,913.57                | 2,985.57                |
| 23 52 39 13-0036 EA 175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 134,829.86                | 3,290.92                |
| 23 52 39 13-0037 EA 200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 146,743.35                | 3,596.26                |
| 23 52 39 13-0038 EA 250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 155,087.79                | 4,206.94                |
| 23 52 39 13-0039 EA 300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 188,395.40                | 4,817.63                |
| 23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 204,112.05                | 5,428.32                |
| 23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 240,061.53                | 6,039.00                |
| 23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 291,059.33                | 6,649.68                |
| 23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 340,140.14                | 7,260.37                |
| 23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 387,123.29                | 7,871.06                |
| 23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 432,250.75                | 8,481.75                |
| 23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 669,971.99                | 9,092.43                |
| 23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit. | 728,840.18                | 9,703.11                |
| <b>23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)</b>   |                           |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 67,538.84                 | 1,492.79                |
| 23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 72,712.33                 | 1,628.50                |
| 23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 78,969.93                 | 1,764.21                |
| 23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 83,129.70                 | 2,035.62                |
| 23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 86,751.32                 | 2,171.33                |
| 23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 90,366.57                 | 2,307.03                |
| 23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 93,716.40                 | 2,374.89                |
| 23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 97,067.17                 | 2,442.74                |
| 23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 112,290.28                | 2,714.15                |
| 23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 127,538.24                | 2,985.57                |
| 23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 139,900.85                | 3,290.92                |
| 23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 152,257.72                | 3,596.26                |
| 23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 160,848.82                | 4,206.94                |
| 23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 195,442.52                | 4,817.63                |
| 23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 211,711.19                | 5,428.32                |
| 23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 249,058.35                | 6,039.00                |
| 23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 302,079.26                | 6,649.68                |
| 23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 353,100.96                | 7,260.37                |
| 23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 401,942.79                | 7,871.06                |
| 23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 448,846.71                | 8,481.75                |
| 23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 696,374.48                | 9,092.43                |
| 23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 757,589.75                | 9,703.11                |
| <b>23 52 39 13-0071 125 PSI Water Scotch Marine Boilers</b> <small>(23 52 39 13)</small><br>Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output. |                           |                         |
| <b>23 52 39 13-0072 125 PSI Gas Fired Water Scotch Marine Boilers</b> <small>(23 52 39 13-0071)</small>  |                           |                         |
| 23 52 39 13-0073 EA 40 HP, 1,339 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 77,410.41                 | 1,628.50                |
| 23 52 39 13-0074 EA 50 HP, 1,674 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 86,824.53                 | 1,764.21                |
| 23 52 39 13-0075 EA 60 HP, 2,009 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 93,380.32                 | 2,035.62                |
| 23 52 39 13-0076 EA 70 HP, 2,343 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 100,366.94                | 2,171.33                |
| 23 52 39 13-0077 EA 80 HP, 2,678 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 107,496.95                | 2,307.03                |
| 23 52 39 13-0078 EA 90 HP, 3,013 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 113,140.02                | 2,374.89                |
| 23 52 39 13-0079 EA 100 HP, 3,348 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 121,732.09                | 2,442.74                |
| 23 52 39 13-0080 EA 125 HP, 4,184 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 130,668.58                | 2,714.15                |
| 23 52 39 13-0081 EA 150 HP, 5,021 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 142,475.20                | 2,985.57                |
| 23 52 39 13-0082 EA 175 HP, 5,858 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 151,640.17                | 3,290.92                |
| 23 52 39 13-0083 EA 200 HP, 6,695 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 157,140.78                | 3,596.26                |
| 23 52 39 13-0084 EA 250 HP, 8,369 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 190,120.79                | 4,206.94                |
| 23 52 39 13-0085 EA 300 HP, 10,043 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 221,299.58                | 4,817.63                |
| 23 52 39 13-0086 EA 350 HP, 11,716 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 238,707.53                | 5,428.32                |
| 23 52 39 13-0087 EA 400 HP, 13,390 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 266,314.99                | 6,039.00                |
| 23 52 39 13-0088 EA 500 HP, 16,738 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 322,201.72                | 6,649.68                |



| MINOR CSI UOM DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|------------------------|----------------------|
| 23 52 39 13-0089 EA 600 HP, 20,085 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 376,764.61             | 7,260.37             |
| 23 52 39 13-0090 EA 700 HP, 23,433 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 428,997.86             | 7,871.06             |
| 23 52 39 13-0091 EA 800 HP, 26,780 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 479,149.33             | 8,481.75             |
| 23 52 39 13-0092 EA 900 HP, 30,128 MBH 125 PSI Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 744,578.52             | 9,092.43             |
| 23 52 39 13-0093 EA 1,000 HP, 33,476 125 PSI MBH Water Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 810,081.22             | 9,703.11             |
| <b>23 52 39 13-0094 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)</b>   |                        |                      |
| 23 52 39 13-0095 EA 40 HP, 1,339 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.       | 71,796.20              | 1,628.50             |
| 23 52 39 13-0096 EA 50 HP, 1,674 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.       | 80,505.61              | 1,764.21             |
| 23 52 39 13-0097 EA 60 HP, 2,009 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.       | 90,259.04              | 2,035.62             |
| 23 52 39 13-0098 EA 70 HP, 2,343 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.       | 96,587.93              | 2,171.33             |
| 23 52 39 13-0099 EA 80 HP, 2,678 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.       | 102,907.51             | 2,307.03             |
| 23 52 39 13-0100 EA 90 HP, 3,013 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.       | 108,961.67             | 2,374.89             |
| 23 52 39 13-0101 EA 100 HP, 3,348 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.      | 119,001.33             | 2,442.74             |
| 23 52 39 13-0102 EA 125 HP, 4,184 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.      | 130,788.97             | 2,714.15             |
| 23 52 39 13-0103 EA 150 HP, 5,021 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.      | 142,604.39             | 2,985.57             |
| 23 52 39 13-0104 EA 175 HP, 5,858 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.      | 151,778.18             | 3,290.92             |
| 23 52 39 13-0105 EA 200 HP, 6,695 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.      | 157,284.66             | 3,596.26             |
| 23 52 39 13-0106 EA 250 HP, 8,369 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.      | 190,294.03             | 4,206.94             |
| 23 52 39 13-0107 EA 300 HP, 10,043 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 221,502.18             | 4,817.63             |
| 23 52 39 13-0108 EA 350 HP, 11,716 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 238,924.82             | 5,428.32             |
| 23 52 39 13-0109 EA 400 HP, 13,390 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 266,558.70             | 6,039.00             |
| 23 52 39 13-0110 EA 500 HP, 16,738 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 322,498.29             | 6,649.68             |
| 23 52 39 13-0111 EA 600 HP, 20,085 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 377,114.03             | 7,260.37             |
| 23 52 39 13-0112 EA 700 HP, 23,433 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 429,397.20             | 7,871.06             |
| 23 52 39 13-0113 EA 800 HP, 26,780 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 479,595.65             | 8,481.75             |
| 23 52 39 13-0114 EA 900 HP, 30,128 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.     | 745,286.03             | 9,092.43             |
| 23 52 39 13-0115 EA 1,000 HP, 33,476 MBH 125 PSI Water Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 810,852.28             | 9,703.11             |
| <b>23 52 39 13-0116 125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)</b>   |                        |                      |
| 23 52 39 13-0117 EA 40 HP, 1,339 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 79,865.16              | 1,628.50             |
| 23 52 39 13-0118 EA 50 HP, 1,674 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 89,584.65              | 1,764.21             |
| 23 52 39 13-0119 EA 60 HP, 2,009 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 96,918.56              | 2,035.62             |
| 23 52 39 13-0120 EA 70 HP, 2,343 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 103,714.33             | 2,171.33             |
| 23 52 39 13-0121 EA 80 HP, 2,678 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 110,503.72             | 2,307.03             |
| 23 52 39 13-0122 EA 90 HP, 3,013 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 117,027.68             | 2,374.89             |
| 23 52 39 13-0123 EA 100 HP, 3,348 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 123,552.59             | 2,442.74             |
| 23 52 39 13-0124 EA 125 HP, 4,184 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 135,786.55             | 2,714.15             |
| 23 52 39 13-0125 EA 150 HP, 5,021 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 148,048.29             | 2,985.57             |
| 23 52 39 13-0126 EA 175 HP, 5,858 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 157,553.88             | 3,290.92             |
| 23 52 39 13-0127 EA 200 HP, 6,695 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 163,239.48             | 3,596.26             |
| 23 52 39 13-0128 EA 250 HP, 8,369 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.  | 197,523.20             | 4,206.94             |
| 23 52 39 13-0129 EA 300 HP, 10,043 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit. | 229,929.36             | 4,817.63             |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 52 39 13-0130 EA 350 HP, 11,716 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 247,974.50                | 5,428.32                |
| 23 52 39 13-0131 EA 400 HP, 13,390 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 276,659.57                | 6,039.00                |
| 23 52 39 13-0132 EA 500 HP, 16,738 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 334,830.75                | 6,649.68                |
| 23 52 39 13-0133 EA 600 HP, 20,085 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 391,616.41                | 7,260.37                |
| 23 52 39 13-0134 EA 700 HP, 23,433 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 445,978.48                | 7,871.06                |
| 23 52 39 13-0135 EA 800 HP, 26,780 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 498,164.81                | 8,481.75                |
| 23 52 39 13-0136 EA 900 HP, 30,128 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 774,827.84                | 9,092.43                |
| 23 52 39 13-0137 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.   | 843,016.55                | 9,703.11                |
| <b>23 52 39 13-0138 150 PSI Steam Scotch Marine Boilers</b> <small>(23 52 39 13)</small><br>Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output. |                           |                         |
| <b>23 52 39 13-0139 150 PSI Gas Fired Steam Scotch Marine Boilers</b> <small>(23 52 39 13-0138)</small>  |                           |                         |
| 23 52 39 13-0140 EA 40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 89,690.02                 | 1,628.50                |
| 23 52 39 13-0141 EA 50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 97,415.76                 | 1,764.21                |
| 23 52 39 13-0142 EA 60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 101,739.97                | 2,035.62                |
| 23 52 39 13-0143 EA 70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 106,597.77                | 2,171.33                |
| 23 52 39 13-0144 EA 80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 111,578.41                | 2,307.03                |
| 23 52 39 13-0145 EA 90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 115,025.13                | 2,374.89                |
| 23 52 39 13-0146 EA 100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 121,441.40                | 2,442.74                |
| 23 52 39 13-0147 EA 125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 137,319.30                | 2,714.15                |
| 23 52 39 13-0148 EA 150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 156,061.46                | 2,985.57                |
| 23 52 39 13-0149 EA 175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 171,172.44                | 3,290.92                |
| 23 52 39 13-0150 EA 200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 186,280.63                | 3,596.26                |
| 23 52 39 13-0151 EA 250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 196,386.85                | 4,206.94                |
| 23 52 39 13-0152 EA 300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 238,914.44                | 4,817.63                |
| 23 52 39 13-0153 EA 350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 258,569.90                | 5,428.32                |
| 23 52 39 13-0154 EA 400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 304,557.36                | 6,039.00                |
| 23 52 39 13-0155 EA 500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 370,066.35                | 6,649.68                |
| 23 52 39 13-0156 EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 433,053.48                | 7,260.37                |
| 23 52 39 13-0157 EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 493,355.68                | 7,871.06                |
| 23 52 39 13-0158 EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 551,229.62                | 8,481.75                |
| 23 52 39 13-0159 EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 859,237.86                | 9,092.43                |
| 23 52 39 13-0160 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 934,925.35                | 9,703.11                |
| <b>23 52 39 13-0161 150 PSI Oil Fired Steam Scotch Marine Boilers</b> <small>(23 52 39 13-0138)</small>  |                           |                         |
| 23 52 39 13-0162 EA 40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 83,103.90                 | 1,628.50                |
| 23 52 39 13-0163 EA 50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 90,260.00                 | 1,764.21                |
| 23 52 39 13-0164 EA 60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 98,313.31                 | 2,035.62                |
| 23 52 39 13-0165 EA 70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 102,560.36                | 2,171.33                |
| 23 52 39 13-0166 EA 80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 106,798.11                | 2,307.03                |
| 23 52 39 13-0167 EA 90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.  | 110,770.43                | 2,374.89                |
| 23 52 39 13-0168 EA 100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler.....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 118,716.51                | 2,442.74                |



**Heating, Ventilating, and Air-Conditioning (HVAC)**

**23**

**Central Heating Equipment**

**23 50**

**Heating Boilers**

**23 52**

23

| MINOR<br>CSI UOM        | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|---|---------------------------|-------------------------|
| 23 52 39 13-0169        | EA 125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.        | 137,445.56                | 2,714.15                |
| 23 52 39 13-0170        | EA 150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.        | 156,205.34                | 2,985.57                |
| 23 52 39 13-0171        | EA 175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.        | 171,331.00                | 3,290.92                |
| 23 52 39 13-0172        | EA 200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.        | 186,453.87                | 3,596.26                |
| 23 52 39 13-0173        | EA 250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.        | 196,565.97                | 4,206.94                |
| 23 52 39 13-0174        | EA 300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 239,134.66                | 4,817.63                |
| 23 52 39 13-0175        | EA 350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 258,807.74                | 5,428.32                |
| 23 52 39 13-0176        | EA 400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 304,839.24                | 6,039.00                |
| 23 52 39 13-0177        | EA 500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 370,409.90                | 6,649.68                |
| 23 52 39 13-0178        | EA 600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 433,458.69                | 7,260.37                |
| 23 52 39 13-0179        | EA 700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 493,816.68                | 7,871.06                |
| 23 52 39 13-0180        | EA 800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 551,746.41                | 8,481.75                |
| 23 52 39 13-0181        | EA 900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.       | 860,059.76                | 9,092.43                |
| 23 52 39 13-0182        | EA 1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 935,823.51                | 9,703.11                |
| <b>23 52 39 13-0183</b> | <b>150 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0138)</b>   |                           |                         |
| 23 52 39 13-0184        | EA 40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 92,570.53                 | 1,628.50                |
| 23 52 39 13-0185        | EA 50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 100,542.92                | 1,764.21                |
| 23 52 39 13-0186        | EA 60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 105,624.69                | 2,035.62                |
| 23 52 39 13-0187        | EA 70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 110,171.25                | 2,171.33                |
| 23 52 39 13-0188        | EA 80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 114,708.50                | 2,307.03                |
| 23 52 39 13-0189        | EA 90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.     | 118,983.26                | 2,374.89                |
| 23 52 39 13-0190        | EA 100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 123,256.03                | 2,442.74                |
| 23 52 39 13-0191        | EA 125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 142,722.10                | 2,714.15                |
| 23 52 39 13-0192        | EA 150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 162,215.94                | 2,985.57                |
| 23 52 39 13-0193        | EA 175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 177,920.06                | 3,290.92                |
| 23 52 39 13-0194        | EA 200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 193,624.31                | 3,596.26                |
| 23 52 39 13-0195        | EA 250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.    | 204,056.47                | 4,206.94                |
| 23 52 39 13-0196        | EA 300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 248,295.92                | 4,817.63                |
| 23 52 39 13-0197        | EA 350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 268,685.45                | 5,428.32                |
| 23 52 39 13-0198        | EA 400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 316,534.52                | 6,039.00                |
| 23 52 39 13-0199        | EA 500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 384,739.04                | 6,649.68                |
| 23 52 39 13-0200        | EA 600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 450,307.18                | 7,260.37                |
| 23 52 39 13-0201        | EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 513,081.75                | 7,871.06                |
| 23 52 39 13-0202        | EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 573,322.34                | 8,481.75                |
| 23 52 39 13-0203        | EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit.   | 894,380.45                | 9,092.43                |
| 23 52 39 13-0204        | EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler .....<br>Note: Burnham Series 3. Fire tested factory assembled unit. | 973,194.56                | 9,703.11                |

**23 53 Heating Boiler Feedwater Equipment (23 50)**

- 23 53 13 Boiler Feedwater Pumps (23 53)**  
See CSI section 23 53 16 00-0001 for boiler feedwater units.
- 23 53 16 Deaerators (23 53)**
- 23 53 16 00-0001 Boiler Feed System (23 53 16)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 53 Heating Boiler Feedwater Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| 23 53 16 00-0002                                     |    | Low Pressure Boiler Feed System <sup>(23 53 16 00-0001)</sup>                                       |                    |
|--|----|---|--------------------|
| Note: With deaerator includes pumps and accessories. |    |   |                    |
| 23 53 16 00-0003                                     | EA | 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....   | 7,701.04 1,763.08  |
| 23 53 16 00-0004                                     | EA | 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....   | 8,404.17 2,077.09  |
| 23 53 16 00-0005                                     | EA | 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....   | 8,985.14 2,149.86  |
| 23 53 16 00-0006                                     | EA | 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....   | 9,278.08 2,228.74  |
| 23 53 16 00-0007                                     | EA | 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....   | 9,829.74 2,381.92  |
| 23 53 16 00-0008                                     | EA | 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System..... | 15,085.72 2,581.05 |
| 23 53 16 00-0009                                     | EA | 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System..... | 16,941.82 2,757.21 |
| 23 53 16 00-0010                                     | EA | 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System..... | 19,409.57 3,140.15 |
| 23 53 16 00-0011                                     | EA | 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System..... | 21,315.98 3,369.92 |
| 23 53 16 00-0012                                     | EA | 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System..... | 22,948.75 3,599.69 |

| 23 53 16 00-0013                                     |    | High Pressure Boiler Feed System <sup>(23 53 16 00-0001)</sup>                                       |                    |
|--|----|--|--------------------|
| Note: With deaerator includes pumps and accessories. |    |  |                    |
| 23 53 16 00-0014                                     | EA | 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....    | 10,197.96 1,503.13 |
| 23 53 16 00-0015                                     | EA | 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....    | 10,724.35 1,763.08 |
| 23 53 16 00-0016                                     | EA | 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....    | 11,999.76 2,077.09 |
| 23 53 16 00-0017                                     | EA | 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....    | 12,918.11 2,149.86 |
| 23 53 16 00-0018                                     | EA | 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....    | 13,163.08 2,228.74 |
| 23 53 16 00-0019                                     | EA | 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....    | 15,736.29 2,381.92 |
| 23 53 16 00-0020                                     | EA | 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System..... | 20,204.36 2,581.05 |
| 23 53 16 00-0021                                     | EA | 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System..... | 20,788.10 2,757.21 |
| 23 53 16 00-0022                                     | EA | 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System..... | 22,817.75 2,952.66 |
| 23 53 16 00-0023                                     | EA | 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System..... | 24,533.24 3,140.15 |
| 23 53 16 00-0024                                     | EA | 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System..... | 26,245.20 3,369.92 |
| 23 53 16 00-0025                                     | EA | 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System..... | 28,308.32 3,599.69 |

| 23 53 16 00-0026                                     |    | Boiler Feedwater System <sup>(23 53 16)</sup>                                |                    |
|--|----|--|--------------------|
| Note: With deaerator includes pumps and accessories. |    |  |                    |
| 23 53 16 00-0027                                     | EA | 1,380 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....  | 12,844.68 2,077.09 |
| 23 53 16 00-0028                                     | EA | 2,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....  | 16,579.48 2,379.62 |
| 23 53 16 00-0029                                     | EA | 4,300 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....  | 21,672.25 2,723.51 |
| 23 53 16 00-0030                                     | EA | 6,900 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....  | 26,004.73 3,141.68 |
| 23 53 16 00-0031                                     | EA | 8,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....  | 27,616.19 3,369.92 |
| 23 53 16 00-0032                                     | EA | 11,000 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories ..... | 29,162.27 3,599.69 |
| 23 53 16 00-0033                                     | EA | 13,800 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories ..... | 32,522.98 4,135.96 |
| 23 53 16 00-0034                                     | EA | 17,250 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories ..... | 41,762.50 4,748.83 |
| 23 53 16 00-0035                                     | EA | 20,700 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories ..... | 53,878.61 5,487.15 |
| 23 53 16 00-0036                                     | EA | 27,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories ..... | 67,929.66 6,298.68 |
| 23 53 16 00-0037                                     | EA | 34,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories ..... | 86,597.40 7,246.86 |

| 23 53 16 00-0038  |    | Duplex Vacuum Condensate Pumps <sup>(23 53 16)</sup>            |                    |
|---|----|---|--------------------|
| 23 53 16 00-0039  | EA | 7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump .....    | 33,460.80 1,225.42 |
| Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.     |    |   |                    |
| 23 53 16 00-0040  | EA | 9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump .....    | 34,236.44 1,302.01 |
| Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.     |    |   |                    |
| 23 53 16 00-0041  | EA | 12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump .....   | 35,125.26 1,378.60 |
| Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5. |    |   |                    |
| 23 53 16 00-0042  | EA | 18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump ..... | 33,970.73 1,455.19 |
| Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.     |    |   |                    |
| 23 53 16 00-0043  | EA | 28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump .....  | 45,956.88 1,531.78 |
| Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402. |    |   |                    |
| 23 53 16 00-0044  | EA | 42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump .....  | 48,373.56 1,608.37 |
| Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.     |    |   |                    |

**23 54 Furnaces <sup>(23 50)</sup>**

Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.

**23 54 13 Electric-Resistance Furnaces <sup>(23 54)</sup>**

| 23 54 13 00-0001                  |    | Down Flow Multi-Speed Air Handler/Electric Furnace <sup>(23 54 13)</sup> |                 |
|-----------------------------------|----|--|-----------------|
| 23 54 13 00-0002                  | EA | Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace .....     | 1,279.44 141.41 |
| Note: Excludes cooling equipment. |    |  |                 |
| 23 54 13 00-0003                  | EA | >2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace .....   | 1,680.56 176.77 |
| Note: Excludes cooling equipment. |    |  |                 |
| 23 54 13 00-0004                  | EA | >3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace .....   | 2,158.17 212.12 |
| Note: Excludes cooling equipment. |    |  |                 |

| 23 54 13 00-0005 |  | Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace <sup>(23 54 13)</sup> |  |
|------------------|--|---|--|
|------------------|--|---|--|



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 54 13 00-0006 EA Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace .....<br>Note: Excludes cooling equipment.   | 1,279.44                  | 141.41                  |
| 23 54 13 00-0007 EA >2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace .....<br>Note: Excludes cooling equipment.  | 1,520.63                  | 159.10                  |
| 23 54 13 00-0008 EA >2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace .....<br>Note: Excludes cooling equipment.  | 1,664.63                  | 176.77                  |
| 23 54 13 00-0009 EA >3 to 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....<br>Note: Excludes cooling equipment.   | 1,751.27                  | 194.45                  |
| 23 54 13 00-0010 EA >3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace .....<br>Note: Excludes cooling equipment.  | 2,158.17                  | 212.12                  |
| <br>   |                           |                         |
| <b>23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace (23 54 13)</b>   |                           |                         |
| 23 54 13 00-0012 EA 5 KW Heating Coil For Air Handler/Electric Furnace .....   | 241.64                    | 38.51                   |
| 23 54 13 00-0013 EA 7 KW Heating Coil For Air Handler/Electric Furnace .....   | 274.56                    | 42.36                   |
| 23 54 13 00-0014 EA 10 KW Heating Coil For Air Handler/Electric Furnace .....  | 297.93                    | 46.21                   |
| 23 54 13 00-0015 EA 15 KW Heating Coil For Air Handler/Electric Furnace .....  | 393.00                    | 50.05                   |
| 23 54 13 00-0016 EA 20 KW Heating Coil For Air Handler/Electric Furnace .....  | 424.33                    | 53.90                   |
| <br>   |                           |                         |
| <b>23 54 16 Fuel-Fired Furnaces (23 54)</b>  |                           |                         |
| <b>23 54 16 13 Gas-Fired Furnaces (23 54 16)</b>   |                           |                         |
| <b>23 54 16 13-0001 Natural Gas Fired Forced Air Furnaces (23 54 16 13)</b><br>Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections. |                           |                         |
| <b>23 54 16 13-0002 Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace (23 54 16 13-0001)</b>  |                           |                         |
| 23 54 16 13-0003 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3 tons.                                  | 1,916.17                  | 123.73                  |
| 23 54 16 13-0004 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3 tons.                                | 2,050.60                  | 141.41                  |
| 23 54 16 13-0005 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 4 tons.                                | 2,361.89                  | 159.10                  |
| 23 54 16 13-0006 EA 100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 5 tons.                               | 2,769.39                  | 194.45                  |
| 23 54 16 13-0007 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 5 tons.                               | 2,959.60                  | 212.12                  |
| <br>   |                           |                         |
| <b>23 54 16 13-0008 Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)</b>   |                           |                         |
| 23 54 16 13-0009 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3 tons.                             | 2,120.10                  | 123.73                  |
| 23 54 16 13-0010 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3 tons.                             | 2,327.83                  | 141.41                  |
| 23 54 16 13-0011 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3 tons.                             | 2,477.83                  | 159.10                  |
| 23 54 16 13-0012 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3.5 tons.                           | 3,188.71                  | 176.77                  |
| 23 54 16 13-0013 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 5 tons.                            | 2,930.31                  | 194.45                  |
| 23 54 16 13-0014 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 5 tons.                            | 3,096.62                  | 212.12                  |
| <br>   |                           |                         |
| <b>23 54 16 13-0015 Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)</b>   |                           |                         |
| 23 54 16 13-0016 EA 45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 4 tons.   | 1,881.04                  | 123.73                  |
| 23 54 16 13-0017 EA 70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 4 tons.   | 2,158.88                  | 141.41                  |
| 23 54 16 13-0018 EA 90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 4 tons.   | 2,364.02                  | 176.77                  |
| 23 54 16 13-0019 EA 90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 5 tons.   | 2,530.33                  | 194.45                  |
| <br>   |                           |                         |
| <b>23 54 16 13-0020 Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace (23 54 16 13-0001)</b>  |                           |                         |
| 23 54 16 13-0021 EA 40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                                       | 2,432.39                  | 123.73                  |
| 23 54 16 13-0022 EA 60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                                       | 2,573.20                  | 141.41                  |
| 23 54 16 13-0023 EA 80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                                       | 2,866.96                  | 159.10                  |
| 23 54 16 13-0024 EA 100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                                      | 3,151.78                  | 194.45                  |
| 23 54 16 13-0025 EA 120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                                      | 3,381.82                  | 212.12                  |
| <br>   |                           |                         |
| <b>23 54 16 13-0026 Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace (23 54 16 13-0001)</b>  |                           |                         |
| 23 54 16 13-0027 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace .....<br>Note: Blower cooling capacity up to 3 tons.                                  | 1,721.78                  | 123.73                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 54 Furnaces**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 54 16 13-0028 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                         | 1,825.94                  | 141.41                  |
| 23 54 16 13-0029 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                         | 2,038.45                  | 159.10                  |
| 23 54 16 13-0030 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                         | 2,054.38                  | 159.10                  |
| 23 54 16 13-0031 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                         | 2,244.59                  | 176.77                  |
| 23 54 16 13-0032 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                        | 2,374.26                  | 194.45                  |
| 23 54 16 13-0033 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                        | 2,523.03                  | 212.12                  |
| <b>23 54 16 13-0034 Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace</b> (23 54 16 13-0001)  |                           |                         |
| 23 54 16 13-0035 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                         | 1,232.63                  | 123.73                  |
| 23 54 16 13-0036 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                         | 1,354.33                  | 141.41                  |
| 23 54 16 13-0037 EA 60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                         | 1,546.12                  | 159.10                  |
| 23 54 16 13-0038 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                         | 1,547.71                  | 159.10                  |
| 23 54 16 13-0039 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                         | 1,701.27                  | 176.77                  |
| 23 54 16 13-0040 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                        | 1,759.24                  | 194.45                  |
| 23 54 16 13-0041 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                        | 1,951.04                  | 212.12                  |
| <b>23 54 16 13-0042 Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace</b> (23 54 16 13-0001)   |                           |                         |
| 23 54 16 13-0043 EA 40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                                  | 1,248.57                  | 123.73                  |
| 23 54 16 13-0044 EA 60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 3 tons.                                  | 1,359.11                  | 141.41                  |
| 23 54 16 13-0045 EA 80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 4 tons.                                  | 1,617.82                  | 159.10                  |
| 23 54 16 13-0046 EA 100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....<br>Note: Blower cooling capacity up to 5 tons.                                 | 1,782.53                  | 176.77                  |
| <b>23 54 16 13-0047 75% AFUE Gas Wall/Recessed Furnace</b> (23 54 16 13-0001)  |                           |                         |
| 23 54 16 13-0048 EA 35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace.....   | 2,019.06                  | 106.06                  |
| 23 54 16 13-0049 EA 55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace.....   | 2,340.22                  | 132.65                  |
| 23 54 16 13-0050 EA 35 MBH 75% AFUE Gas Wall/Recessed Furnace.....   | 1,835.83                  | 106.06                  |
| 23 54 16 13-0051 EA 40 MBH 75% AFUE Gas Wall/Recessed Furnace.....   | 1,963.60                  | 114.97                  |
| 23 54 16 13-0052 EA 50 MBH 75% AFUE Gas Wall/Recessed Furnace.....   | 1,955.93                  | 123.73                  |
| 23 54 16 13-0053 EA 65 MBH 75% AFUE Gas Wall/Recessed Furnace.....   | 2,020.05                  | 132.65                  |
| 23 54 16 13-0054 EA 75 MBH 75% AFUE Gas Wall/Recessed Furnace.....   | 2,087.08                  | 132.65                  |
| <b>23 54 16 13-0055 Gas Fired Indoor Duct Furnace</b> (23 54 16 13-0001)<br>Note: Includes burner, controls and electronic ignition.   |                           |                         |
| <b>23 54 16 13-0056 Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace</b> (23 54 16 13-0055)   |                           |                         |
| 23 54 16 13-0057 EA 100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 2,599.56                  | 275.76                  |
| 23 54 16 13-0058 EA 150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 2,904.59                  | 339.39                  |
| 23 54 16 13-0059 EA 200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 3,325.34                  | 487.88                  |
| 23 54 16 13-0060 EA 250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 3,750.96                  | 551.52                  |
| 23 54 16 13-0061 EA 300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 4,370.18                  | 636.36                  |
| 23 54 16 13-0062 EA 350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 4,820.20                  | 763.64                  |
| 23 54 16 13-0063 EA 400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....  | 5,539.39                  | 1,018.19                |
| <b>23 54 16 13-0064 Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace</b> (23 54 16 13-0055)<br>Note: Includes burner, controls and electronic ignition.              |                           |                         |
| 23 54 16 13-0065 EA 100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 2,902.47                  | 275.76                  |
| 23 54 16 13-0066 EA 150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 3,202.98                  | 339.39                  |
| 23 54 16 13-0067 EA 200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 3,735.25                  | 487.88                  |
| 23 54 16 13-0068 EA 250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 4,234.72                  | 551.52                  |
| 23 54 16 13-0069 EA 300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 5,205.08                  | 636.36                  |
| 23 54 16 13-0070 EA 350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 5,725.93                  | 763.64                  |
| 23 54 16 13-0071 EA 400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....   | 6,395.39                  | 1,018.19                |
| <b>23 54 16 16 Oil-Fired Furnaces</b> (23 54 16)   |                           |                         |
| <b>23 54 16 16-0001 Oil Fired Forced Air Furnaces</b> (23 54 16 16)<br>Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections. |                           |                         |
| <b>23 54 16 16-0002 Up Flow Single Speed, One Stage 81% AFUE Oil Furnace</b> (23 54 16 16-0001)  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 54 16 16-0003 EA 72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 3 tons.   | 3,229.64                  | 141.41                  |
| 23 54 16 16-0004 EA 95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 4 tons.   | 3,476.81                  | 194.45                  |
| 23 54 16 16-0005 EA 126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 5 tons.  | 4,018.14                  | 229.80                  |
| <b>23 54 16 16-0006 Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace<sup>(23 54 16-0001)</sup></b>  |                           |                         |
| 23 54 16 16-0007 EA 95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 3 tons.  | 3,773.17                  | 194.45                  |
| 23 54 16 16-0008 EA 126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 5 tons.   | 3,838.10                  | 229.80                  |
| <b>23 54 16 16-0009 Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace<sup>(23 54 16 16-0001)</sup></b>   |                           |                         |
| 23 54 16 16-0010 EA 95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 4 tons.  | 3,288.80                  | 194.45                  |
| 23 54 16 16-0011 EA 127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace.....<br>Note: Blower cooling capacity up to 5 tons.   | 3,903.43                  | 229.80                  |
| <b>23 54 19 Furnace Accessories<sup>(23 54)</sup></b>  |                           |                         |
| 23 54 19 00-0001 EA LP Gas Furnace Conversion Kit.....   | 231.09                    | 35.35                   |
| 23 54 19 00-0002 EA 1" Furnace External Filter Rack.....   | 69.22                     |                         |
| 23 54 19 00-0003 EA Removal And Reinstallation Of Forced Air Furnace.....<br>Note: Includes storage and cleaning. Excludes ductwork.   | 654.70                    |                         |
| <b>23 55 Fuel-Fired Heaters<sup>(23 50)</sup></b>  |                           |                         |
| <b>23 55 23 Gas-Fired Radiant Heaters<sup>(23 55)</sup></b>  |                           |                         |
| <b>23 55 23 13 Low-Intensity Gas-Fired Radiant Heaters<sup>(23 55 23)</sup></b>  |                           |                         |
| 23 55 23 13-0001 Infrared Heaters-Radiant Energy <sup>(23 55 23 13)</sup><br>Note: For spot localized or total heating, ceiling hung units, no fan required.   |                           |                         |
| 23 55 23 13-0002 Gas Fired Electric Ignition Infrared Gas Heater <sup>(23 55 23 13-0001)</sup><br>Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.        |                           |                         |
| 23 55 23 13-0003 EA 15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....  | 1,021.74                  | 153.18                  |
| 23 55 23 13-0004 EA 37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....  | 1,146.79                  | 168.49                  |
| 23 55 23 13-0005 EA 50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....  | 1,215.65                  | 168.49                  |
| 23 55 23 13-0006 EA 75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....  | 1,516.15                  | 202.20                  |
| 23 55 23 13-0007 EA 100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....   | 1,527.76                  | 202.20                  |
| 23 55 23 13-0008 Rolled Steel Or Aluminum Housing Infrared Electric Heater <sup>(23 55 23 13-0001)</sup><br>Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element. |                           |                         |
| 23 55 23 13-0009 EA 1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add  | 1,128.42<br>164.26        | 155.56                  |
| 23 55 23 13-0010 EA 3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add  | 1,199.18<br>181.95        | 155.56                  |
| 23 55 23 13-0011 EA 5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add  | 1,280.05<br>202.17        | 155.56                  |
| 23 55 23 13-0012 EA 7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add  | 1,377.27<br>226.47        | 155.56                  |
| 23 55 23 13-0013 EA 10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add   | 1,497.33<br>252.36        | 169.70                  |
| 23 55 23 13-0014 EA 13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add   | 1,596.63<br>271.77        | 183.84                  |
| 23 55 23 13-0015 EA 24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....<br>For Stainless Steel Housing, Add   | 2,507.39<br>485.30        | 197.98                  |
| 23 55 23 13-0016 Gas Fired Tubular Infrared Heater <sup>(23 55 23 13-0001)</sup><br>Note: Per Tube Length. Includes controls and supports.   |                           |                         |
| 23 55 23 13-0017 "U" Package <sup>(23 55 23 13-0016)</sup>   |                           |                         |
| 23 55 23 13-0018 LF Up To 75 MBH Input Radiant Heater.....   | 97.37                     | 7.66                    |
| 23 55 23 13-0019 LF 76 To 105 MBH Input Radiant Heater.....  | 112.59                    | 9.19                    |
| 23 55 23 13-0020 LF 106 To 130 MBH Input Radiant Heater.....   | 136.91                    | 10.72                   |
| 23 55 23 13-0021 "S" Straight Package <sup>(23 55 23 13-0016)</sup>  |                           |                         |
| 23 55 23 13-0022 LF Up To 75 MBH Input Radiant Heater.....   | 79.42                     | 6.12                    |
| 23 55 23 13-0023 LF 76 To 105 MBH Input Radiant Heater.....  | 100.56                    | 7.66                    |
| 23 55 23 13-0024 LF 106 To 130 MBH Input Radiant Heater.....   | 121.68                    | 9.19                    |
| <b>23 55 33 Fuel-Fired Unit Heaters<sup>(23 55)</sup></b>  |                           |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 55 Fuel-Fired Heaters**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**23 55 33 13 Oil-Fired Unit Heaters (23 55 33)**

|                  |   |          |        |
|------------------|---|----------|--------|
| 23 55 33 13-0001 | Oil Fired Unit Heater (23 55 33 13)   |          |        |
| 23 55 33 13-0002 | Horizontal Fan Propelled Oil Fired Unit Heater, 115 Volt (23 55 33 13-0001)                 |          |        |
| 23 55 33 13-0003 | EA 97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt ..... | 8,421.26 | 705.20 |
| 23 55 33 13-0004 | EA 142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 9,042.91 | 775.71 |
| 23 55 33 13-0005 | EA 188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 9,719.53 | 846.23 |

**23 55 33 16 Gas-Fired Unit Heaters (23 55 33)**

|                  |  |          |        |
|------------------|--|----------|--------|
| 23 55 33 16-0001 | Gas Fired Unit Heaters (23 55 33 16)   |          |        |
| 23 55 33 16-0002 | Horizontal Fan Propelled Gas Fired Unit Heaters, 115 Volt (23 55 33 16-0001)                                 |          |        |
| 23 55 33 16-0003 | EA 24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....    | 2,149.18 | 264.45 |
| 23 55 33 16-0004 | EA 36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....    | 2,366.31 | 317.34 |
| 23 55 33 16-0005 | EA 48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 2,400.25 | 317.34 |
| 23 55 33 16-0006 | EA 60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 2,633.73 | 370.22 |
| 23 55 33 16-0007 | EA 72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 2,905.16 | 423.12 |
| 23 55 33 16-0008 | EA 81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 3,115.55 | 449.56 |
| 23 55 33 16-0009 | EA 101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 3,201.13 | 449.56 |
| 23 55 33 16-0010 | EA 121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 3,127.79 | 449.56 |
| 23 55 33 16-0011 | EA 141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 3,690.01 | 476.01 |
| 23 55 33 16-0012 | EA 162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 4,024.12 | 476.01 |
| 23 55 33 16-0013 | EA 202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 4,301.19 | 476.01 |
| 23 55 33 16-0014 | EA 243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 5,121.55 | 528.90 |
| 23 55 33 16-0015 | EA 283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt..... | 5,749.02 | 528.90 |
| 23 55 33 16-0016 | EA 324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 6,175.22 | 581.78 |

**23 55 33 16-0017 Removal And Reinstallation Of Unit Heaters (23 55 33 16)**

Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.

|                  |   |          |  |
|------------------|---|----------|--|
| 23 55 33 16-0018 | EA Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater..... | 880.77   |  |
| 23 55 33 16-0019 | EA Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater .....     | 1,187.13 |  |

**23 57 Heat Exchangers for HVAC (23 50)****23 57 13 Steam-To-Steam Heat Exchangers (23 57)**

|  |  |           |          |
|--|--|-----------|----------|
| 23 57 13 00-0001   | Steam Generator Heat Exchanger (23 57 13)                  |           |          |
| Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve. |  |           |          |
| 23 57 13 00-0002   | EA 75 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....  | 22,954.13 | 2,450.85 |
| 23 57 13 00-0003   | EA 300 LB/Hour Steam Generator Heat Exchanger, 35 PSI..... | 30,696.11 | 2,604.03 |
| 23 57 13 00-0004   | EA 525 LB/Hour Steam Generator Heat Exchanger, 35 PSI..... | 41,075.58 | 3,118.60 |

**23 57 16 Steam-To-Water Heat Exchangers (23 57)**

|   |  |           |          |
|---|--|-----------|----------|
| 23 57 16 00-0001  | Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI (23 57 16)                                      |           |          |
| Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories. |  |           |          |
| 23 57 16 00-0002  | EA 8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....   | 2,660.47  | 382.95   |
|   | For Bronze Head And Tube Sheet, Add  | 967.45    |          |
|   | For Copper Nickel Tubes, Add   | 214.99    |          |
|   | For Double Wall Tube Bundles, Add  | 322.48    |          |
| 23 57 16 00-0003  | EA 10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....  | 3,868.25  | 382.95   |
|   | For Bronze Head And Tube Sheet, Add  | 1,464.99  |          |
|   | For Copper Nickel Tubes, Add   | 325.55    |          |
|   | For Double Wall Tube Bundles, Add  | 488.33    |          |
| 23 57 16 00-0004  | EA 40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....  | 5,802.76  | 536.12   |
|   | For Bronze Head And Tube Sheet, Add  | 2,266.59  |          |
|   | For Copper Nickel Tubes, Add   | 503.69    |          |
|   | For Double Wall Tube Bundles, Add  | 755.53    |          |
| 23 57 16 00-0005  | EA 64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....  | 9,209.94  | 536.12   |
|   | For Bronze Head And Tube Sheet, Add  | 3,455.17  |          |
|   | For Copper Nickel Tubes, Add   | 767.82    |          |
|   | For Double Wall Tube Bundles, Add  | 1,151.72  |          |
| 23 57 16 00-0006  | EA 96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....  | 12,111.32 | 631.09   |
|   | For Bronze Head And Tube Sheet, Add  | 4,588.47  |          |
|   | For Copper Nickel Tubes, Add   | 1,019.66  |          |
|   | For Double Wall Tube Bundles, Add  | 1,529.49  |          |
| 23 57 16 00-0007  | EA 120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... | 15,845.41 | 773.12   |
|   | For Bronze Head And Tube Sheet, Add  | 6,025.82  |          |
|   | For Copper Nickel Tubes, Add   | 1,339.07  |          |
|   | For Double Wall Tube Bundles, Add  | 2,008.61  |          |
| 23 57 16 00-0008  | EA 168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube..... | 19,591.67 | 1,160.41 |
|   | For Bronze Head And Tube Sheet, Add  | 7,380.24  |          |
|   | For Copper Nickel Tubes, Add   | 1,640.05  |          |
|   | For Double Wall Tube Bundles, Add  | 2,460.08  |          |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |  |          |
|------------------|---|--|----------|
| 23 57 16 00-0009 | EA 240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Bronze Head And Tube Sheet, Add</i><br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i> | 29,541.80<br>11,498.81<br>2,555.29<br>3,832.94 | 1,160.41 |
|------------------|---|--|----------|

**23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)**

**23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers (23 57 19)**

|  |  |           |        |
|--|--|-----------|--------|
| <b>23 57 19 13-0001 Plate And Frame Heat Exchanger (23 57 19 13)</b> |  |           |        |
| 23 57 19 13-0002   | EA 8" W x 18-7/8"H Plate And Frame Heat Exchanger.....         | 4,188.00  | 382.95 |
| 23 57 19 13-0003   | EA 8" W x 24-9/16"H Plate And Frame Heat Exchanger.....        | 5,523.46  | 382.95 |
| 23 57 19 13-0004   | EA 11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger..... | 7,345.89  | 459.53 |
| 23 57 19 13-0005   | EA 16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger.....    | 9,926.57  | 497.83 |
| 23 57 19 13-0006   | EA 16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger.....    | 10,844.70 | 497.83 |
| 23 57 19 13-0007   | EA 24" W x 57-11/16"H Plate And Frame Heat Exchanger.....      | 14,093.08 | 536.12 |
| 23 57 19 13-0008   | EA 26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger.....   | 14,844.27 | 536.12 |
| 23 57 19 13-0009   | EA 24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger.....    | 18,335.97 | 612.71 |
| 23 57 19 13-0010   | EA 24" W x 69-11/16"H Plate And Frame Heat Exchanger.....      | 22,411.94 | 689.30 |
| 23 57 19 13-0011   | EA 26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger.....   | 23,246.60 | 689.30 |
| 23 57 19 13-0012   | EA 24" W x 89-13/16"H Plate And Frame Heat Exchanger.....      | 28,722.04 | 783.28 |
| 23 57 19 13-0013   | EA 26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger.....  | 34,640.54 | 861.46 |
| 23 57 19 13-0014   | EA 40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger.....  | 39,974.60 | 939.65 |

**23 57 19 19 Copper Tube, Water-To-Water Heat Exchanger (23 57 19)**

|  |  |                                   |        |
|--|--|-----------------------------------|--------|
| <b>23 57 19 19-0001 Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)</b> |  |                                   |        |
| <small>Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.</small>         |  |                                   |        |
| 23 57 19 19-0002   | EA 7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>   | 3,151.88<br>264.13<br>396.19      | 382.95 |
| 23 57 19 19-0003   | EA 16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 4,359.65<br>374.69<br>562.04      | 382.95 |
| 23 57 19 19-0004   | EA 34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 6,478.44<br>571.26<br>856.88      | 536.12 |
| 23 57 19 19-0005   | EA 55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 9,252.17<br>823.10<br>1,234.65    | 536.12 |
| 23 57 19 19-0006   | EA 74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 11,467.15<br>1,013.52<br>1,520.28 | 612.71 |
| 23 57 19 19-0007   | EA 86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 15,248.81<br>1,363.64<br>2,045.46 | 612.71 |
| 23 57 19 19-0008   | EA 112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i> | 18,830.50<br>1,695.34<br>2,543.01 | 580.21 |
| 23 57 19 19-0009   | EA 126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i> | 23,409.66<br>2,113.03<br>3,169.54 | 580.21 |
| 23 57 19 19-0010   | EA 152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i> | 29,928.14<br>2,702.71<br>4,054.07 | 580.21 |

**23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)**

|   |  |                                   |        |
|---|--|-----------------------------------|--------|
| <b>23 57 19 23-0001 Heat Exchanger Refrigerant To Water (23 57 19 23)</b> |  |                                   |        |
| 23 57 19 23-0002  | EA 10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 3,569.34<br>295.66<br>443.49      | 306.36 |
| 23 57 19 23-0003  | EA 53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 9,383.05<br>836.19<br>1,254.28    | 510.54 |
| 23 57 19 23-0004  | EA 70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 12,633.77<br>1,130.41<br>1,695.62 | 666.02 |
| 23 57 19 23-0005  | EA 87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i>  | 13,590.57<br>1,198.16<br>1,797.23 | 806.18 |
| 23 57 19 23-0006  | EA 105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube.....<br><i>For Copper Nickel Tubes, Add</i><br><i>For Double Wall Tube Bundles, Add</i> | 16,328.83<br>1,445.61<br>2,168.42 | 921.51 |

**23 60 Central Cooling Equipment (23)**

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 60 Central Cooling Equipment****23 61 Refrigerant Compressors**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**23 61 Refrigerant Compressors** (23 60)**23 61 16 Reciprocating Refrigerant Compressors** (23 61)**23 61 16 00-0001 Reciprocating Open Type Refrigerant Compressors** (23 61 16)

Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 23 61 16 00-0002 | EA | 1/4 Ton Refrigerant Compressor, Reciprocating Open Type   | 690.56    | 145.21   |
| 23 61 16 00-0003 | EA | 1/3 Ton Refrigerant Compressor, Reciprocating Open Type   | 800.94    | 145.21   |
| 23 61 16 00-0004 | EA | 1/2 Ton Refrigerant Compressor, Reciprocating Open Type   | 1,075.91  | 181.44   |
| 23 61 16 00-0005 | EA | 3/4 Ton Refrigerant Compressor, Reciprocating Open Type   | 1,303.58  | 181.44   |
| 23 61 16 00-0006 | EA | 1 Ton Refrigerant Compressor, Reciprocating Open Type     | 1,441.56  | 181.44   |
| 23 61 16 00-0007 | EA | 1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type | 1,464.13  | 188.77   |
| 23 61 16 00-0008 | EA | 1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type | 1,472.18  | 188.77   |
| 23 61 16 00-0009 | EA | 1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type | 1,613.91  | 203.29   |
| 23 61 16 00-0010 | EA | 2 Ton Refrigerant Compressor, Reciprocating Open Type     | 1,734.96  | 217.81   |
| 23 61 16 00-0011 | EA | 2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type | 1,888.15  | 232.33   |
| 23 61 16 00-0012 | EA | 3 Ton Refrigerant Compressor, Reciprocating Open Type     | 2,125.01  | 232.33   |
| 23 61 16 00-0013 | EA | 3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type | 2,374.81  | 246.86   |
| 23 61 16 00-0014 | EA | 4 Ton Refrigerant Compressor, Reciprocating Open Type     | 2,431.48  | 261.37   |
| 23 61 16 00-0015 | EA | 4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type | 2,473.56  | 268.57   |
| 23 61 16 00-0016 | EA | 5 Ton Refrigerant Compressor, Reciprocating Open Type     | 4,123.22  | 1,405.94 |
| 23 61 16 00-0017 | EA | 7.5 Ton Refrigerant Compressor, Reciprocating Open Type   | 5,957.42  | 1,606.72 |
| 23 61 16 00-0018 | EA | 10 Ton Refrigerant Compressor, Reciprocating Open Type    | 7,791.82  | 1,807.64 |
| 23 61 16 00-0019 | EA | 12.5 Ton Refrigerant Compressor, Reciprocating Open Type  | 10,078.27 | 1,958.14 |
| 23 61 16 00-0020 | EA | 15 Ton Refrigerant Compressor, Reciprocating Open Type    | 12,365.17 | 2,108.91 |
| 23 61 16 00-0021 | EA | 20 Ton Refrigerant Compressor, Reciprocating Open Type    | 14,838.21 | 2,530.69 |
| 23 61 16 00-0022 | EA | 25 Ton Refrigerant Compressor, Reciprocating Open Type    | 17,691.18 | 2,720.00 |
| 23 61 16 00-0023 | EA | 30 Ton Refrigerant Compressor, Reciprocating Open Type    | 20,415.62 | 2,875.80 |
| 23 61 16 00-0024 | EA | 50 Ton Refrigerant Compressor, Reciprocating Open Type    | 26,488.39 | 3,244.52 |
| 23 61 16 00-0025 | EA | 60 Ton Refrigerant Compressor, Reciprocating Open Type    | 30,985.94 | 3,329.61 |
| 23 61 16 00-0026 | EA | 70 Ton Refrigerant Compressor, Reciprocating Open Type    | 38,396.25 | 3,414.57 |
| 23 61 16 00-0027 | EA | 75 Ton Refrigerant Compressor, Reciprocating Open Type    | 40,258.56 | 3,457.17 |
| 23 61 16 00-0028 | EA | 80 Ton Refrigerant Compressor, Reciprocating Open Type    | 42,044.16 | 3,499.65 |
| 23 61 16 00-0029 | EA | 90 Ton Refrigerant Compressor, Reciprocating Open Type    | 45,388.64 | 3,584.60 |
| 23 61 16 00-0030 | EA | 100 Ton Refrigerant Compressor, Reciprocating Open Type   | 48,431.06 | 3,669.83 |
| 23 61 16 00-0031 | EA | 110 Ton Refrigerant Compressor, Reciprocating Open Type   | 51,426.71 | 3,753.54 |
| 23 61 16 00-0032 | EA | 120 Ton Refrigerant Compressor, Reciprocating Open Type   | 53,852.21 | 3,837.55 |
| 23 61 16 00-0033 | EA | 130 Ton Refrigerant Compressor, Reciprocating Open Type   | 55,922.09 | 3,886.40 |
| 23 61 16 00-0034 | EA | 140 Ton Refrigerant Compressor, Reciprocating Open Type   | 57,794.32 | 4,006.63 |
| 23 61 16 00-0035 | EA | 150 Ton Refrigerant Compressor, Reciprocating Open Type   | 59,306.64 | 4,090.65 |
| 23 61 16 00-0036 | EA | 175 Ton Refrigerant Compressor, Reciprocating Open Type   | 60,860.19 | 4,202.73 |
| 23 61 16 00-0037 | EA | 185 Ton Refrigerant Compressor, Reciprocating Open Type   | 62,312.13 | 4,247.92 |
| 23 61 16 00-0038 | EA | 200 Ton Refrigerant Compressor, Reciprocating Open Type   | 63,803.16 | 4,318.22 |
| 23 61 16 00-0039 | EA | 225 Ton Refrigerant Compressor, Reciprocating Open Type   | 65,641.76 | 4,609.45 |
| 23 61 16 00-0040 | EA | 250 Ton Refrigerant Compressor, Reciprocating Open Type   | 67,410.93 | 4,857.94 |

**23 61 16 00-0041 Reciprocating Hermetic Type Refrigerant Compressors** (23 61 16)

Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.

**23 61 16 00-0042 Reciprocating Hermetic Type Refrigerant Compressors <5 Tons** (23 61 16 00-0041)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 23 61 16 00-0043 | EA | 1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type   | 1,101.69 | 145.21 |
| 23 61 16 00-0044 | EA | 1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type   | 1,136.22 | 145.21 |
| 23 61 16 00-0045 | EA | 1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type   | 1,243.35 | 181.44 |
| 23 61 16 00-0046 | EA | 3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type   | 1,277.85 | 181.44 |
| 23 61 16 00-0047 | EA | 1 Ton Refrigerant Compressor, Reciprocating Hermetic Type     | 1,295.12 | 181.44 |
| 23 61 16 00-0048 | EA | 1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 1,337.26 | 188.77 |
| 23 61 16 00-0049 | EA | 1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 1,375.24 | 188.77 |
| 23 61 16 00-0050 | EA | 1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 1,476.77 | 203.29 |
| 23 61 16 00-0051 | EA | 2 Ton Refrigerant Compressor, Reciprocating Hermetic Type     | 1,574.89 | 217.81 |
| 23 61 16 00-0052 | EA | 2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 1,707.46 | 232.33 |
| 23 61 16 00-0053 | EA | 3 Ton Refrigerant Compressor, Reciprocating Hermetic Type     | 1,776.51 | 232.33 |
| 23 61 16 00-0054 | EA | 3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 1,909.10 | 246.86 |
| 23 61 16 00-0055 | EA | 4 Ton Refrigerant Compressor, Reciprocating Hermetic Type     | 2,248.87 | 261.37 |
| 23 61 16 00-0056 | EA | 4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 2,453.23 | 268.57 |

**23 61 16 00-0057 Reciprocating Hermetic Type Refrigerant Compressors** (23 61 16 00-0041)

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 23 61 16 00-0058 | EA | 5 Ton Refrigerant Compressor, Reciprocating Hermetic Type  | 3,202.51  | 723.06   |
| 23 61 16 00-0059 | EA | 10 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 5,893.17  | 903.82   |
| 23 61 16 00-0060 | EA | 15 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 9,666.84  | 1,100.32 |
| 23 61 16 00-0061 | EA | 20 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 12,256.09 | 1,265.35 |
| 23 61 16 00-0062 | EA | 25 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 13,539.28 | 1,405.94 |
| 23 61 16 00-0063 | EA | 30 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 15,020.83 | 1,581.69 |
| 23 61 16 00-0064 | EA | 35 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 19,327.06 | 1,807.64 |
| 23 61 16 00-0065 | EA | 40 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 24,637.71 | 1,807.64 |
| 23 61 16 00-0066 | EA | 50 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 30,377.34 | 2,108.91 |
| 23 61 16 00-0067 | EA | 60 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 34,150.72 | 2,259.55 |
| 23 61 16 00-0068 | EA | 70 Ton Refrigerant Compressor, Reciprocating Hermetic Type | 36,074.72 | 2,367.97 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 61 16 00-0069 EA 75 Ton Refrigerant Compressor, Reciprocating Hermetic Type .....  | 37,107.54                 | 2,484.95                |
| 23 61 16 00-0070 EA 80 Ton Refrigerant Compressor, Reciprocating Hermetic Type .....  | 38,135.26                 | 2,494.60                |
| 23 61 16 00-0071 EA 90 Ton Refrigerant Compressor, Reciprocating Hermetic Type .....  | 40,054.97                 | 2,611.98                |
| 23 61 16 00-0072 EA 100 Ton Refrigerant Compressor, Reciprocating Hermetic Type ..... | 41,989.39                 | 2,720.00                |

**23 61 19 Scroll Refrigerant Compressors (23 61)**

**23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)**

|   |           |          |
|---|-----------|----------|
| 23 61 19 00-0002 EA Up To 3 Ton Scroll Refrigerant Compressor ..... | 1,430.97  | 232.06   |
| 23 61 19 00-0003 EA 3.5 Ton Scroll Refrigerant Compressor .....     | 1,502.69  | 246.99   |
| 23 61 19 00-0004 EA 4 Ton Scroll Refrigerant Compressor .....       | 1,544.58  | 261.24   |
| 23 61 19 00-0005 EA 4.5 Ton Scroll Refrigerant Compressor .....     | 1,576.25  | 268.70   |
| 23 61 19 00-0006 EA 5 Ton Scroll Refrigerant Compressor .....       | 1,956.80  | 339.27   |
| 23 61 19 00-0007 EA 7.5 Ton Scroll Refrigerant Compressor .....     | 3,640.76  | 508.90   |
| 23 61 19 00-0008 EA 8.75 Ton Scroll Refrigerant Compressor .....    | 4,172.77  | 593.72   |
| 23 61 19 00-0009 EA 10 Ton Scroll Refrigerant Compressor .....      | 4,683.41  | 678.55   |
| 23 61 19 00-0010 EA 12 Ton Scroll Refrigerant Compressor .....      | 5,656.52  | 814.25   |
| 23 61 19 00-0011 EA 13.5 Ton Scroll Refrigerant Compressor .....    | 6,642.17  | 916.03   |
| 23 61 19 00-0012 EA 15 Ton Scroll Refrigerant Compressor .....      | 7,755.53  | 1,017.81 |
| 23 61 19 00-0013 EA 20 Ton Scroll Refrigerant Compressor .....      | 10,882.02 | 1,357.08 |
| 23 61 19 00-0014 EA 25 Ton Scroll Refrigerant Compressor .....      | 12,371.71 | 1,696.36 |
| 23 61 19 00-0015 EA 30 Ton Scroll Refrigerant Compressor .....      | 13,365.98 | 2,035.63 |

**23 61 23 Rotary-Screw Refrigerant Compressors (23 61)**

**23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)**

|   |           |          |
|---|-----------|----------|
| 23 61 23 00-0002 EA 75 Ton Refrigerant Compressor, Rotary Screw Type .....  | 43,595.01 | 3,457.17 |
| 23 61 23 00-0003 EA 80 Ton Refrigerant Compressor, Rotary Screw Type .....  | 44,896.99 | 3,499.65 |
| 23 61 23 00-0004 EA 90 Ton Refrigerant Compressor, Rotary Screw Type .....  | 47,716.42 | 3,584.60 |
| 23 61 23 00-0005 EA 100 Ton Refrigerant Compressor, Rotary Screw Type ..... | 50,508.34 | 3,669.83 |
| 23 61 23 00-0006 EA 110 Ton Refrigerant Compressor, Rotary Screw Type ..... | 54,029.18 | 3,753.54 |
| 23 61 23 00-0007 EA 120 Ton Refrigerant Compressor, Rotary Screw Type ..... | 57,285.38 | 3,837.55 |
| 23 61 23 00-0008 EA 130 Ton Refrigerant Compressor, Rotary Screw Type ..... | 60,460.85 | 3,886.40 |
| 23 61 23 00-0009 EA 140 Ton Refrigerant Compressor, Rotary Screw Type ..... | 63,770.64 | 4,006.63 |
| 23 61 23 00-0010 EA 150 Ton Refrigerant Compressor, Rotary Screw Type ..... | 67,030.59 | 4,090.65 |
| 23 61 23 00-0011 EA 170 Ton Refrigerant Compressor, Rotary Screw Type ..... | 71,605.46 | 4,202.73 |
| 23 61 23 00-0012 EA 185 Ton Refrigerant Compressor, Rotary Screw Type ..... | 74,810.22 | 4,247.92 |
| 23 61 23 00-0013 EA 200 Ton Refrigerant Compressor, Rotary Screw Type ..... | 76,314.76 | 4,318.22 |
| 23 61 23 00-0014 EA 215 Ton Refrigerant Compressor, Rotary Screw Type ..... | 85,595.57 | 4,609.45 |
| 23 61 23 00-0015 EA 225 Ton Refrigerant Compressor, Rotary Screw Type ..... | 94,726.72 | 4,857.94 |

**23 62 Packaged Compressor and Condenser Units (23 60)**

**23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)**

**23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)**

Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

|  |           |          |
|--|-----------|----------|
| 23 62 13 00-0002 EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....   | 7,385.14  | 1,253.94 |
| 23 62 13 00-0003 EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....   | 15,799.95 | 1,343.51 |
| 23 62 13 00-0004 EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 27,373.61 | 1,433.08 |
| 23 62 13 00-0005 EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 32,355.92 | 1,522.65 |
| 23 62 13 00-0006 EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 38,307.54 | 1,612.21 |
| 23 62 13 00-0007 EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 42,456.23 | 1,791.35 |
| 23 62 13 00-0008 EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 43,567.82 | 1,885.25 |
| 23 62 13 00-0009 EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 46,901.18 | 2,149.31 |
| 23 62 13 00-0010 EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 50,055.19 | 2,328.41 |
| 23 62 13 00-0011 EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 57,321.77 | 2,507.52 |
| 23 62 13 00-0012 EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 64,788.75 | 2,776.19 |
| 23 62 13 00-0013 EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 68,461.09 | 2,885.17 |
| 23 62 13 00-0014 EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....  | 77,240.37 | 3,065.50 |
| 23 62 13 00-0015 EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube ..... | 84,395.34 | 3,245.82 |

**23 62 13 00-0016 Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)**

Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

|  |           |          |
|--|-----------|----------|
| 23 62 13 00-0017 EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 7,072.11  | 1,253.94 |
| 23 62 13 00-0018 EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 14,018.26 | 1,343.51 |
| 23 62 13 00-0019 EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems ..... | 21,609.58 | 1,433.08 |
| 23 62 13 00-0020 EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems ..... | 23,329.16 | 1,522.65 |
| 23 62 13 00-0021 EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems ..... | 25,048.71 | 1,612.21 |
| 23 62 13 00-0022 EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems ..... | 29,639.74 | 1,791.35 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 62 Packaged Compressor and Condenser Units**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 62 13 00-0023 EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 33,381.69                 | 1,885.25                |
| 23 62 13 00-0024 EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 42,708.97                 | 2,149.31                |
| 23 62 13 00-0025 EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 47,875.90                 | 2,328.41                |
| 23 62 13 00-0026 EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 51,763.55                 | 2,507.52                |
| 23 62 13 00-0027 EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 59,553.02                 | 2,776.19                |
| 23 62 13 00-0028 EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 63,059.29                 | 2,885.17                |
| 23 62 13 00-0029 EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....  | 69,144.42                 | 3,065.50                |
| 23 62 13 00-0030 EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems ..... | 78,776.80                 | 3,245.82                |

**23 62 13 00-0031**

**Packaged Chiller With Remote Air Cooled Condenser (23 62 13)**

Note: With remote air cooled condenser rated by cooling capacity, Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.

|  |            |           |
|--|------------|-----------|
| 23 62 13 00-0032 EA 15 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 38,829.10  | 10,442.86 |
| <i>For Gas Fired Engine Driven, Add</i>  | 6,200.18   |           |
| 23 62 13 00-0033 EA 20 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 43,369.58  | 11,007.32 |
| <i>For Gas Fired Engine Driven, Add</i>  | 7,023.65   |           |
| 23 62 13 00-0034 EA 25 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 49,863.27  | 11,978.44 |
| <i>For Gas Fired Engine Driven, Add</i>  | 8,176.78   |           |
| 23 62 13 00-0035 EA 30 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 55,351.56  | 12,727.17 |
| <i>For Gas Fired Engine Driven, Add</i>  | 9,162.19   |           |
| 23 62 13 00-0036 EA 40 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 68,072.25  | 14,043.75 |
| <i>For Gas Fired Engine Driven, Add</i>  | 11,508.94  |           |
| 23 62 13 00-0037 EA 50 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 74,533.45  | 14,545.25 |
| <i>For Gas Fired Engine Driven, Add</i>  | 12,725.98  |           |
| 23 62 13 00-0038 EA 60 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 80,912.63  | 15,664.14 |
| <i>For Gas Fired Engine Driven, Add</i>  | 13,834.07  |           |
| 23 62 13 00-0039 EA 70 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 97,142.74  | 16,760.10 |
| <i>For Gas Fired Engine Driven, Add</i>  | 16,884.39  |           |
| 23 62 13 00-0040 EA 75 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 98,238.82  | 17,084.55 |
| <i>For Gas Fired Engine Driven, Add</i>  | 17,086.35  |           |
| 23 62 13 00-0041 EA 80 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 100,276.03 | 17,827.42 |
| <i>For Gas Fired Engine Driven, Add</i>  | 17,382.43  |           |
| 23 62 13 00-0042 EA 90 Ton Packaged Chiller With Remote Air Cooled Condensers .....  | 110,595.84 | 18,637.79 |
| <i>For Gas Fired Engine Driven, Add</i>  | 19,324.90  |           |
| 23 62 13 00-0043 EA 100 Ton Packaged Chiller With Remote Air Cooled Condensers ..... | 121,721.68 | 19,525.33 |
| <i>For Gas Fired Engine Driven, Add</i>  | 21,417.01  |           |
| 23 62 13 00-0044 EA 110 Ton Packaged Chiller With Remote Air Cooled Condensers ..... | 134,286.62 | 20,501.53 |
| <i>For Gas Fired Engine Driven, Add</i>  | 23,783.63  |           |
| 23 62 13 00-0045 EA 120 Ton Packaged Chiller With Remote Air Cooled Condensers ..... | 144,859.99 | 21,580.61 |
| <i>For Gas Fired Engine Driven, Add</i>  | 25,736.53  |           |
| 23 62 13 00-0046 EA 140 Ton Packaged Chiller With Remote Air Cooled Condensers ..... | 159,251.35 | 22,779.48 |
| <i>For Gas Fired Engine Driven, Add</i>  | 28,435.06  |           |

**23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units (23 62)**

**23 62 23 00-0001 Water Cooled Condensing Units (23 62 23)**

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

|   |           |          |
|---|-----------|----------|
| 23 62 23 00-0002 EA 5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....   | 8,428.24  | 980.22   |
| 23 62 23 00-0003 EA 10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....  | 12,767.98 | 1,431.55 |
| 23 62 23 00-0004 EA 15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....  | 14,593.34 | 1,551.43 |
| 23 62 23 00-0005 EA 20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....  | 18,078.46 | 1,861.72 |
| 23 62 23 00-0006 EA 30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....  | 19,579.69 | 2,190.34 |
| 23 62 23 00-0007 EA 60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....  | 40,900.52 | 3,108.34 |
| 23 62 23 00-0008 EA 80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor .....  | 50,736.29 | 3,751.50 |
| 23 62 23 00-0009 EA 120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor ..... | 69,915.45 | 4,104.72 |

**23 63 Refrigerant Condensers (23 60)**

**23 63 13 Air-Cooled Refrigerant Condensers (23 63)**

**23 63 13 00-0001 Air Cooled Condensing Units (23 63 13)**

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.

|  |          |          |
|--|----------|----------|
| 23 63 13 00-0002 EA 6 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor .....   | 7,222.21 | 980.22   |
| <i>For &gt;10 To 25, Deduct</i>  | -172.13  |          |
| <i>For &gt;25 To 50, Deduct</i>  | -286.88  |          |
| <i>For &gt;50, Deduct</i>  | -459.01  |          |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>   | 1,117.04 |          |
| <i>For Winter Start Control, Add</i>   | 377.97   |          |
| 23 63 13 00-0003 EA 7.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor ..... | 8,648.10 | 1,163.57 |
| <i>For &gt;10 To 25, Deduct</i>  | -206.55  |          |
| <i>For &gt;25 To 50, Deduct</i>  | -344.26  |          |
| <i>For &gt;50, Deduct</i>  | -550.81  |          |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>   | 991.56   |          |
| <i>For Winter Start Control, Add</i>   | 314.00   |          |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 63 13 00-0004 EA 10 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 11,226.75                 | 1,431.55                |
| <i>For &gt;10 To 25, Deduct</i>   | -271.71                   |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -452.85                   |                         |
| <i>For &gt;50, Deduct</i>   | -724.55                   |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 1,176.44                  |                         |
| <i>For Winter Start Control, Add</i>  | 398.12                    |                         |
| 23 63 13 00-0005 EA 12.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 13,831.93                 | 1,489.37                |
| <i>For &gt;10 To 25, Deduct</i>   | -347.26                   |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -578.77                   |                         |
| <i>For &gt;50, Deduct</i>   | -926.02                   |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 1,374.43                  |                         |
| <i>For Winter Start Control, Add</i>  | 457.17                    |                         |
| 23 63 13 00-0006 EA 15 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 16,444.33                 | 1,551.43                |
| <i>For &gt;10 To 25, Deduct</i>   | -422.81                   |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -704.68                   |                         |
| <i>For &gt;50, Deduct</i>   | -1,127.49                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 1,433.28                  |                         |
| <i>For Winter Start Control, Add</i>  | 376.00                    |                         |
| 23 63 13 00-0007 EA 20 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 21,165.67                 | 1,861.72                |
| <i>For &gt;10 To 25, Deduct</i>   | -550.35                   |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -917.24                   |                         |
| <i>For &gt;50, Deduct</i>   | -1,467.59                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 1,805.89                  |                         |
| <i>For Winter Start Control, Add</i>  | 465.53                    |                         |
| 23 63 13 00-0008 EA 25 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 24,056.80                 | 2,002.76                |
| <i>For &gt;10 To 25, Deduct</i>   | -630.75                   |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -1,051.25                 |                         |
| <i>For &gt;50, Deduct</i>   | -1,682.00                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 1,914.33                  |                         |
| <i>For Winter Start Control, Add</i>  | 513.43                    |                         |
| 23 63 13 00-0009 EA 30 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 27,567.29                 | 2,186.11                |
| <i>For &gt;10 To 25, Deduct</i>   | -727.79                   |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -1,212.98                 |                         |
| <i>For &gt;50, Deduct</i>   | -1,940.77                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 2,039.90                  |                         |
| <i>For Winter Start Control, Add</i>  | 573.36                    |                         |
| 23 63 13 00-0010 EA 40 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 37,661.13                 | 2,472.55                |
| <i>For &gt;10 To 25, Deduct</i>   | -1,015.44                 |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -1,692.40                 |                         |
| <i>For &gt;50, Deduct</i>   | -2,707.84                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 2,645.69                  |                         |
| <i>For Winter Start Control, Add</i>  | 719.80                    |                         |
| 23 63 13 00-0011 EA 50 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 45,746.26                 | 3,108.34                |
| <i>For &gt;10 To 25, Deduct</i>   | -1,228.58                 |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -2,047.63                 |                         |
| <i>For &gt;50, Deduct</i>   | -3,276.20                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 2,836.53                  |                         |
| <i>For Winter Start Control, Add</i>  | 684.13                    |                         |
| 23 63 13 00-0012 EA 60 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 52,672.24                 | 3,430.66                |
| <i>For &gt;10 To 25, Deduct</i>   | -1,425.63                 |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -2,376.06                 |                         |
| <i>For &gt;50, Deduct</i>   | -3,801.69                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 3,188.62                  |                         |
| <i>For Winter Start Control, Add</i>  | 752.72                    |                         |
| 23 63 13 00-0013 EA 80 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....  | 68,167.39                 | 3,751.50                |
| <i>For &gt;10 To 25, Deduct</i>   | -1,871.46                 |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -3,119.09                 |                         |
| <i>For &gt;50, Deduct</i>   | -4,990.55                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 3,941.65                  |                         |
| <i>For Winter Start Control, Add</i>  | 890.46                    |                         |
| 23 63 13 00-0014 EA 100 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....   | 93,979.81                 | 3,377.82                |
| <i>For &gt;10 To 25, Deduct</i>   | -2,613.11                 |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -4,355.18                 |                         |
| <i>For &gt;50, Deduct</i>   | -6,968.29                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 4,332.16                  |                         |
| <i>For Winter Start Control, Add</i>  | 1,123.14                  |                         |
| 23 63 13 00-0015 EA 120 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....   | 115,699.99                | 3,492.32                |
| <i>For &gt;10 To 25, Deduct</i>   | -3,257.72                 |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -5,429.53                 |                         |
| <i>For &gt;50, Deduct</i>   | -8,687.25                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 5,035.05                  |                         |
| <b>23 63 13 00-0016 Air Cooled Condensing Units <small>(23 63 13)</small></b>   |                           |                         |
| Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 14 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Includes 20' length of piping (liquid line and insulated suction line). Excludes additional piping and power wiring. |                           |                         |
| 23 63 13 00-0017 EA 1.5 Ton, 14 SEER, Air Cooled Condensing Unit.....   | 2,323.42                  | 460.20                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.   |                           |                         |
| <i>For &gt;10 To 25, Deduct</i>   | -48.99                    |                         |
| <i>For &gt;25 To 50, Deduct</i>   | -81.66                    |                         |
| <i>For &gt;50, Deduct</i>   | -130.65                   |                         |
| <i>For 15 SEER, Add</i>   | 391.95                    |                         |
| <i>For 16 SEER, Add</i>   | 669.58                    |                         |
| <i>For 18 SEER, Add</i>   | 1,404.48                  |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 63 Refrigerant Condensers**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 63 13 00-0018 EA 2 Ton, 14 SEER, Air Cooled Condensing Unit.....                              | 2,504.19                  | 511.59                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.    |                           |                         |
| For >10 To 25, Deduct  | -52.12                    |                         |
| For >25 To 50, Deduct  | -86.86                    |                         |
| For >50, Deduct  | -138.97                   |                         |
| For 15 SEER, Add   | 416.92                    |                         |
| For 16 SEER, Add   | 712.24                    |                         |
| For 18 SEER, Add   | 1,493.97                  |                         |
| 23 63 13 00-0019 EA 2.5 Ton, 14 SEER, Air Cooled Condensing Unit.....                            | 2,663.77                  | 562.75                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.    |                           |                         |
| For >10 To 25, Deduct  | -54.60                    |                         |
| For >25 To 50, Deduct  | -91.00                    |                         |
| For >50, Deduct  | -145.61                   |                         |
| For 15 SEER, Add   | 436.82                    |                         |
| For 16 SEER, Add   | 746.23                    |                         |
| For 18 SEER, Add   | 1,565.26                  |                         |
| 23 63 13 00-0020 EA 3 Ton, 14 SEER, Air Cooled Condensing Unit.....                              | 3,049.11                  | 613.60                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.    |                           |                         |
| For >10 To 25, Deduct  | -63.86                    |                         |
| For >25 To 50, Deduct  | -106.44                   |                         |
| For >50, Deduct  | -170.30                   |                         |
| For 15 SEER, Add   | 510.89                    |                         |
| For 16 SEER, Add   | 872.77                    |                         |
| For 18 SEER, Add   | 1,830.68                  |                         |
| 23 63 13 00-0021 EA 3.5 Ton, 14 SEER, Air Cooled Condensing Unit.....                            | 3,233.38                  | 665.07                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.    |                           |                         |
| For >10 To 25, Deduct  | -67.09                    |                         |
| For >25 To 50, Deduct  | -111.81                   |                         |
| For >50, Deduct  | -178.90                   |                         |
| For 15 SEER, Add   | 536.71                    |                         |
| For 16 SEER, Add   | 916.87                    |                         |
| For 18 SEER, Add   | 1,923.20                  |                         |
| 23 63 13 00-0022 EA 4 Ton, 14 SEER, Air Cooled Condensing Unit.....                              | 3,595.80                  | 716.22                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.    |                           |                         |
| For >10 To 25, Deduct  | -75.66                    |                         |
| For >25 To 50, Deduct  | -126.10                   |                         |
| For >50, Deduct  | -201.76                   |                         |
| For 15 SEER, Add   | 605.28                    |                         |
| For 16 SEER, Add   | 1,034.02                  |                         |
| For 18 SEER, Add   | 2,168.91                  |                         |
| 23 63 13 00-0023 EA 5 Ton, 14 SEER, Air Cooled Condensing Unit.....                              | 4,045.42                  | 767.01                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.    |                           |                         |
| For >10 To 25, Deduct  | -86.85                    |                         |
| For >25 To 50, Deduct  | -144.75                   |                         |
| For >50, Deduct  | -231.59                   |                         |
| For 15 SEER, Add   | 694.78                    |                         |
| For 16 SEER, Add   | 1,186.92                  |                         |
| For 18 SEER, Add   | 2,489.63                  |                         |
| 23 63 13 00-0024 Removal And Reinstallation Of AC Condensing Unit (23 63 13)                     |                           |                         |
| Note: Includes storage and cleaning.   |                           |                         |
| 23 63 13 00-0025 EA Removal And Reinstallation Of Up To 5 Tons Air Cooled Condensing Unit.....   | 471.38                    |                         |
| 23 63 13 00-0026 EA Removal And Reinstallation Of 7.5 To 15 Tons Air Cooled Condensing Unit..... | 1,767.68                  |                         |
| 23 63 13 00-0027 EA Removal And Reinstallation Of 20 To 40 Tons Air Cooled Condensing Unit.....  | 2,963.01                  |                         |

**23 64 Packaged Water Chillers (23 60)**

**23 64 13 Absorption Water Chillers (23 64)**

**23 64 13 16 Indirect-Fired Absorption Water Chillers (23 64 13)**

**23 64 13 16-0001 Packaged, Steam Driven, Water Cooled Absorption Chillers (23 64 13 16)**

Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.

|  |            |           |
|--|------------|-----------|
| 23 64 13 16-0002 EA 50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....  | 201,401.49 | 14,247.29 |
| For Two Stage Unit, Add  | 129,583.22 |           |
| 23 64 13 16-0003 EA 100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 253,576.98 | 16,393.03 |
| For Two Stage Unit, Add  | 164,389.46 |           |
| 23 64 13 16-0004 EA 150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 320,050.82 | 17,622.51 |
| For Two Stage Unit, Add  | 209,937.57 |           |
| 23 64 13 16-0005 EA 200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 355,170.98 | 18,851.98 |
| For Two Stage Unit, Add  | 233,538.10 |           |
| 23 64 13 16-0006 EA 250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 395,892.80 | 19,398.41 |
| For Two Stage Unit, Add  | 261,606.22 |           |
| 23 64 13 16-0007 EA 300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 445,162.01 | 20,081.46 |
| For Two Stage Unit, Add  | 295,548.24 |           |
| 23 64 13 16-0008 EA 350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 477,011.90 | 20,764.51 |
| For Two Stage Unit, Add  | 317,296.72 |           |
| 23 64 13 16-0009 EA 400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... | 566,294.20 | 21,857.37 |
| For Two Stage Unit, Add  | 378,920.04 |           |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|--|------------------------------|-------------------------|
| 23 64 13 16-0010 EA 500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i>   | 632,982.74<br>425,055.58     | 22,540.41               |
| 23 64 13 16-0011 EA 650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i>   | 764,993.68<br>516,916.80     | 23,223.45               |
| 23 64 13 16-0012 EA 750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i>   | 829,239.88<br>560,577.71     | 24,862.76               |
| 23 64 13 16-0013 EA 850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i>   | 888,858.05<br>601,108.27     | 26,365.45               |
| 23 64 13 16-0014 EA 950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i>   | 951,583.74<br>644,313.01     | 27,244.50               |
| 23 64 13 16-0015 EA 1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i> | 1,088,045.35<br>739,251.38   | 27,909.00               |
| 23 64 13 16-0016 EA 1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i> | 1,191,263.08<br>810,281.12   | 29,503.81               |
| 23 64 13 16-0017 EA 1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i> | 1,389,888.41<br>948,255.64   | 30,832.80               |
| 23 64 13 16-0018 EA 1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....<br><i>For Two Stage Unit, Add</i> | 1,622,990.37<br>1,110,682.79 | 31,763.11               |

**23 64 16 Centrifugal Water Chillers (23 64)**

**23 64 16 16 Water-Cooled Centrifugal Water Chillers (23 64 16)**

**23 64 16 16-0001 Packaged Water-Cooled Centrifugal Water Chillers (23 64 16 16)**

Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

|  |                         |           |
|--|-------------------------|-----------|
| 23 64 16 16-0002 EA 180 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 151,586.27<br>5,562.65  | 7,794.21  |
| 23 64 16 16-0003 EA 200 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 165,539.83<br>6,107.94  | 7,991.60  |
| 23 64 16 16-0004 EA 225 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 182,391.45<br>6,769.12  | 8,194.74  |
| 23 64 16 16-0005 EA 250 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 198,880.22<br>7,407.56  | 8,523.28  |
| 23 64 16 16-0006 EA 275 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 215,046.13<br>8,023.27  | 9,004.56  |
| 23 64 16 16-0007 EA 300 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 230,622.46<br>8,616.25  | 9,472.71  |
| 23 64 16 16-0008 EA 325 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 245,711.25<br>9,186.43  | 9,992.10  |
| 23 64 16 16-0009 EA 350 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 260,190.66<br>9,733.94  | 10,484.85 |
| 23 64 16 16-0010 EA 375 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 274,030.36<br>10,258.66 | 10,934.15 |
| 23 64 16 16-0011 EA 400 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 287,149.88<br>10,760.64 | 11,288.93 |
| 23 64 16 16-0012 EA 425 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 300,029.46<br>11,239.89 | 11,848.20 |
| 23 64 16 16-0013 EA 450 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 312,176.81<br>11,696.41 | 12,305.29 |
| 23 64 16 16-0014 EA 475 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 323,746.30<br>12,130.20 | 12,756.51 |
| 23 64 16 16-0015 EA 500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 334,584.11<br>12,541.26 | 13,105.96 |
| 23 64 16 16-0016 EA 550 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 354,176.91<br>13,295.11 | 13,570.70 |
| 23 64 16 16-0017 EA 600 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 371,223.88<br>13,958.03 | 13,865.77 |
| 23 64 16 16-0018 EA 650 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 386,623.03<br>14,529.96 | 14,551.13 |
| 23 64 16 16-0019 EA 700 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 399,765.53<br>15,010.96 | 15,246.89 |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 64 Packaged Water Chillers**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 64 16 16-0020 EA 750 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i>   | 410,750.43<br>15,401.17   | 16,012.30               |
| 23 64 16 16-0021 EA 800 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i>   | 436,221.29<br>16,370.36   | 16,784.83               |
| 23 64 16 16-0022 EA 850 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i>   | 461,513.18<br>17,332.57   | 17,554.89               |
| 23 64 16 16-0023 EA 900 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i>   | 486,745.75<br>18,287.64   | 18,398.85               |
| 23 64 16 16-0024 EA 950 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i>   | 511,935.37<br>19,235.52   | 19,328.06               |
| 23 64 16 16-0025 EA 1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 535,710.34<br>20,176.20   | 19,698.71               |
| 23 64 16 16-0026 EA 1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 581,596.88<br>21,819.01   | 22,729.36               |
| 23 64 16 16-0027 EA 1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 625,795.90<br>23,393.77   | 25,768.65               |
| 23 64 16 16-0028 EA 1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 667,372.41<br>24,900.32   | 28,230.62               |
| 23 64 16 16-0029 EA 1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 705,740.26<br>26,338.68   | 29,746.48               |
| 23 64 16 16-0030 EA 1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 742,319.73<br>27,708.65   | 31,212.77               |
| 23 64 16 16-0031 EA 1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 776,318.53<br>29,011.09   | 32,117.55               |
| 23 64 16 16-0032 EA 1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 810,730.66<br>30,245.13   | 34,358.24               |
| 23 64 16 16-0033 EA 1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 842,540.38<br>31,410.98   | 36,034.25               |
| 23 64 16 16-0034 EA 1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 873,437.39<br>32,508.63   | 38,208.76               |
| 23 64 16 16-0035 EA 2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 901,345.81<br>33,538.22   | 39,573.38               |
| 23 64 16 16-0036 EA 2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 959,384.47<br>35,814.03   | 41,813.40               |
| 23 64 16 16-0037 EA 2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....<br>Note: Includes integral heat exchanger, controls, and 440/460 V motor.<br><i>For 208/230 Voltage Motor Rating, Add</i> | 1,012,035.04<br>37,663.92 | 44,322.16               |

**23 64 23 Scroll Water Chillers (23 64)**

**23 64 23 13 Air-Cooled Scroll Water Chillers (23 64 23)**

**23 64 23 13-0001 Packaged Air Cooled Scroll Water Chillers (23 64 23 13)**

Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type. Includes scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.

|  |           |          |
|--|-----------|----------|
| 23 64 23 13-0002 EA 10 Ton Packaged Air Cooled Scroll Water Chiller .....  | 26,201.93 | 2,225.87 |
| 23 64 23 13-0003 EA 15 Ton Packaged Air Cooled Scroll Water Chiller .....  | 38,068.68 | 2,254.41 |
| 23 64 23 13-0004 EA 18 Ton Packaged Air Cooled Scroll Water Chiller .....  | 41,526.27 | 2,411.35 |
| 23 64 23 13-0005 EA 22 Ton Packaged Air Cooled Scroll Water Chiller .....  | 45,651.77 | 2,582.57 |
| 23 64 23 13-0006 EA 25 Ton Packaged Air Cooled Scroll Water Chiller .....  | 46,453.95 | 2,753.79 |
| 23 64 23 13-0007 EA 30 Ton Packaged Air Cooled Scroll Water Chiller .....  | 49,043.29 | 2,953.55 |
| 23 64 23 13-0008 EA 40 Ton Packaged Air Cooled Scroll Water Chiller .....  | 55,993.47 | 3,196.11 |
| 23 64 23 13-0009 EA 45 Ton Packaged Air Cooled Scroll Water Chiller .....  | 60,143.18 | 3,467.21 |
| 23 64 23 13-0010 EA 50 Ton Packaged Air Cooled Scroll Water Chiller .....  | 63,470.23 | 3,567.09 |
| 23 64 23 13-0011 EA 55 Ton Packaged Air Cooled Scroll Water Chiller .....  | 66,288.51 | 3,724.05 |
| 23 64 23 13-0012 EA 60 Ton Packaged Air Cooled Scroll Water Chiller .....  | 68,516.57 | 3,852.46 |
| 23 64 23 13-0013 EA 70 Ton Packaged Air Cooled Scroll Water Chiller .....  | 78,997.60 | 4,337.58 |
| 23 64 23 13-0014 EA 80 Ton Packaged Air Cooled Scroll Water Chiller .....  | 85,075.80 | 4,751.37 |
| 23 64 23 13-0015 EA 90 Ton Packaged Air Cooled Scroll Water Chiller .....  | 86,588.54 | 4,765.63 |
| 23 64 23 13-0016 EA 100 Ton Packaged Air Cooled Scroll Water Chiller ..... | 91,493.24 | 4,779.90 |
| 23 64 23 13-0017 EA 110 Ton Packaged Air Cooled Scroll Water Chiller ..... | 96,264.37 | 4,794.17 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 64 23 13-0018 EA 120 Ton Packaged Air Cooled Scroll Water Chiller .....  | 101,094.77                | 4,808.44                |
| 23 64 23 13-0019 EA 130 Ton Packaged Air Cooled Scroll Water Chiller .....  | 106,177.14                | 4,822.71                |
| <br><b>23 64 23 16 Water-Cooled Scroll Water Chillers (23 64 23)</b>  |                           |                         |
| <b>23 64 23 16-0001 Packaged Water Cooled Scroll Water Chillers (23 64 23 16)</b>   |                           |                         |
| Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. |                           |                         |
| 23 64 23 16-0002 EA 20 Ton Packaged Water Cooled Scroll Water Chiller .....   | 27,268.91                 | 2,604.56                |
| 23 64 23 16-0003 EA 25 Ton Packaged Water Cooled Scroll Water Chiller .....   | 31,199.75                 | 2,683.24                |
| 23 64 23 16-0004 EA 30 Ton Packaged Water Cooled Scroll Water Chiller .....   | 34,594.86                 | 2,945.64                |
| 23 64 23 16-0005 EA 40 Ton Packaged Water Cooled Scroll Water Chiller .....   | 42,444.77                 | 3,636.31                |
| 23 64 23 16-0006 EA 50 Ton Packaged Water Cooled Scroll Water Chiller .....   | 46,934.55                 | 3,985.03                |
| 23 64 23 16-0007 EA 60 Ton Packaged Water Cooled Scroll Water Chiller .....   | 49,435.06                 | 4,402.96                |
| <br><b>23 64 26 Rotary-Screw Water Chillers (23 64)</b>   |                           |                         |
| <b>23 64 26 13 Air-Cooled, Rotary-Screw Water Chillers (23 64 26)</b>   |                           |                         |
| <b>23 64 26 13-0001 Packaged Air Cooled Rotary-Screw Water Chillers (23 64 26 13)</b>   |                           |                         |
| Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 voltage motor rating, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.   |                           |                         |
| 23 64 26 13-0002 EA 70 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....   | 102,641.54                | 5,464.78                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -1,416.77               |
| For 208/230 Voltage Motor Rating, Add   |                           | 3,778.06                |
| 23 64 26 13-0003 EA 80 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....   | 110,334.46                | 5,935.64                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -1,521.68               |
| For 208/230 Voltage Motor Rating, Add   |                           | 4,057.81                |
| 23 64 26 13-0004 EA 90 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....   | 116,047.96                | 6,192.47                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -1,601.39               |
| For 208/230 Voltage Motor Rating, Add   |                           | 4,270.37                |
| 23 64 26 13-0005 EA 100 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 120,423.45                | 6,663.33                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -1,656.53               |
| For 208/230 Voltage Motor Rating, Add   |                           | 4,417.42                |
| 23 64 26 13-0006 EA 110 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 129,181.08                | 6,991.49                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -1,780.62               |
| For 208/230 Voltage Motor Rating, Add   |                           | 4,748.32                |
| 23 64 26 13-0007 EA 120 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 137,173.28                | 7,134.18                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -1,897.08               |
| For 208/230 Voltage Motor Rating, Add   |                           | 5,058.88                |
| 23 64 26 13-0008 EA 130 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 144,743.18                | 7,376.74                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,005.28               |
| For 208/230 Voltage Motor Rating, Add   |                           | 5,347.41                |
| 23 64 26 13-0009 EA 140 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 149,345.05                | 7,533.69                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,070.67               |
| For 208/230 Voltage Motor Rating, Add   |                           | 5,521.78                |
| 23 64 26 13-0010 EA 160 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 157,605.09                | 7,690.65                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,190.93               |
| For 208/230 Voltage Motor Rating, Add   |                           | 5,842.48                |
| 23 64 26 13-0011 EA 170 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 164,475.31                | 7,933.21                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,288.63               |
| For 208/230 Voltage Motor Rating, Add   |                           | 6,103.02                |
| 23 64 26 13-0012 EA 180 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 173,395.95                | 8,247.12                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,415.38               |
| For 208/230 Voltage Motor Rating, Add   |                           | 6,441.01                |
| 23 64 26 13-0013 EA 200 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 181,172.84                | 8,418.34                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,528.39               |
| For 208/230 Voltage Motor Rating, Add   |                           | 6,742.38                |
| 23 64 26 13-0014 EA 215 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 194,043.10                | 8,561.01                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,718.02               |
| For 208/230 Voltage Motor Rating, Add   |                           | 7,248.06                |
| 23 64 26 13-0015 EA 225 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 202,585.23                | 8,646.62                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,844.44               |
| For 208/230 Voltage Motor Rating, Add   |                           | 7,585.18                |
| 23 64 26 13-0016 EA 240 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 211,127.35                | 8,717.97                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -2,970.86               |
| For 208/230 Voltage Motor Rating, Add   |                           | 7,922.30                |
| 23 64 26 13-0017 EA 260 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 236,668.12                | 8,889.19                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -3,350.12               |
| For 208/230 Voltage Motor Rating, Add   |                           | 8,933.66                |
| 23 64 26 13-0018 EA 280 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 249,552.65                | 9,060.41                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -3,539.75               |
| For 208/230 Voltage Motor Rating, Add   |                           | 9,439.34                |
| 23 64 26 13-0019 EA 300 Ton Packaged Air Cooled Rotary-Screw Water Chiller .....  | 266,636.91                | 9,203.09                |
| For Aluminum Fins Instead Of Copper, Deduct   |                           | -3,792.59               |
| For 208/230 Voltage Motor Rating, Add   |                           | 10,113.58               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 64 Packaged Water Chillers**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|---|--------------------------------------|-------------------------|
| 23 64 26 13-0020 EA 325 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....<br><i>For Aluminum Fins Instead Of Copper, Deduct</i><br><i>For 208/230 Voltage Motor Rating, Add</i> | 292,149.14<br>-4,171.85<br>11,124.93 | 9,360.05                |
| 23 64 26 13-0021 EA 350 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....<br><i>For Aluminum Fins Instead Of Copper, Deduct</i><br><i>For 208/230 Voltage Motor Rating, Add</i> | 318,231.51<br>-4,560.30<br>12,160.81 | 9,474.19                |

**23 64 26 16 Water-Cooled, Rotary-Screw Water Chillers (23 64 26)**

**23 64 26 16-0001 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26 16)**

Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.

|   |            |           |
|---|------------|-----------|
| 23 64 26 16-0002 EA 70 Ton Packaged Water Cooled Helical Rotary Water Chiller.....  | 68,015.81  | 6,147.39  |
| 23 64 26 16-0003 EA 80 Ton Packaged Water Cooled Helical Rotary Water Chiller.....  | 73,710.89  | 6,386.46  |
| 23 64 26 16-0004 EA 90 Ton Packaged Water Cooled Helical Rotary Water Chiller.....  | 78,665.67  | 6,557.21  |
| 23 64 26 16-0005 EA 100 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 83,015.26  | 6,833.84  |
| 23 64 26 16-0006 EA 110 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 87,307.33  | 7,021.68  |
| 23 64 26 16-0007 EA 125 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 92,529.10  | 7,218.81  |
| 23 64 26 16-0008 EA 130 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 124,137.12 | 7,420.57  |
| 23 64 26 16-0009 EA 150 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 102,629.68 | 7,621.40  |
| 23 64 26 16-0010 EA 175 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 110,128.31 | 7,810.05  |
| 23 64 26 16-0011 EA 190 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 113,947.55 | 8,200.62  |
| 23 64 26 16-0012 EA 200 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 133,007.82 | 8,596.09  |
| 23 64 26 16-0013 EA 210 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 134,835.83 | 8,780.11  |
| 23 64 26 16-0014 EA 235 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 146,333.91 | 8,972.18  |
| 23 64 26 16-0015 EA 255 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 155,416.05 | 9,382.82  |
| 23 64 26 16-0016 EA 275 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 164,005.32 | 9,762.60  |
| 23 64 26 16-0017 EA 300 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 173,983.31 | 10,149.33 |
| 23 64 26 16-0018 EA 350 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 191,003.60 | 11,048.91 |
| 23 64 26 16-0019 EA 400 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 205,041.37 | 12,152.70 |
| 23 64 26 16-0020 EA 450 Ton Packaged Water Cooled Helical Rotary Water Chiller..... | 216,115.26 | 13,368.51 |

**23 65 Cooling Towers (23 60)**

**23 65 13 Forced-Draft Cooling Towers (23 65)**

**23 65 13 16 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13)**

**23 65 13 16-0001 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13 16)**

**23 65 13 16-0002 Blow-Thru Centrifugal Fan Type Galvanized Cooling Towers (23 65 13 16-0001)**

Note: Including 2-speed motor internal piping, vibration switch, basin, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.

|  |                         |           |
|--|-------------------------|-----------|
| 23 65 13 16-0003 EA 50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i>  | 20,266.81<br>10,028.39  | 2,368.54  |
| 23 65 13 16-0004 EA 75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i>  | 27,798.00<br>14,084.81  | 2,896.48  |
| 23 65 13 16-0005 EA 100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 34,958.65<br>17,465.17  | 3,638.44  |
| 23 65 13 16-0006 EA 125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 40,266.92<br>20,239.21  | 4,066.48  |
| 23 65 13 16-0007 EA 150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 45,995.10<br>23,179.58  | 4,580.14  |
| 23 65 13 16-0008 EA 175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 51,708.83<br>26,077.03  | 5,136.61  |
| 23 65 13 16-0009 EA 200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 58,016.18<br>29,296.41  | 5,721.61  |
| 23 65 13 16-0010 EA 225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 63,478.70<br>31,871.92  | 6,449.30  |
| 23 65 13 16-0011 EA 250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 69,213.12<br>34,619.13  | 7,162.71  |
| 23 65 13 16-0012 EA 275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 76,032.34<br>37,452.19  | 8,475.41  |
| 23 65 13 16-0013 EA 300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 82,703.04<br>40,564.27  | 9,388.58  |
| 23 65 13 16-0014 EA 325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 87,164.77<br>42,710.52  | 9,987.85  |
| 23 65 13 16-0015 EA 350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 92,380.91<br>45,232.37  | 10,572.86 |
| 23 65 13 16-0016 EA 375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 97,411.57<br>47,754.23  | 11,086.52 |
| 23 65 13 16-0017 EA 400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 103,143.36<br>50,705.33 | 11,600.17 |
| 23 65 13 16-0018 EA 425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 109,253.77<br>53,763.74 | 12,227.99 |
| 23 65 13 16-0019 EA 450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 116,154.77<br>57,305.07 | 12,855.80 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 65 13 16-0020 EA 475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 122,837.92<br>60,792.74   | 13,397.99               |
| 23 65 13 16-0021 EA 500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 129,535.34<br>64,280.41   | 13,940.19               |
| 23 65 13 16-0022 EA 550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 142,088.35<br>71,255.74   | 14,525.19               |
| 23 65 13 16-0023 EA 600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 155,714.49<br>78,874.96   | 15,095.93               |
| 23 65 13 16-0024 EA 650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 161,194.27<br>82,094.34   | 15,409.83               |
| 23 65 13 16-0025 EA 700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 167,747.18<br>85,957.61   | 15,609.59               |
| 23 65 13 16-0026 EA 750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 175,620.43<br>89,928.18   | 16,408.61               |
| 23 65 13 16-0027 EA 800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 184,745.66<br>94,649.95   | 17,207.64               |
| 23 65 13 16-0028 EA 850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 193,985.03<br>99,371.71   | 18,078.01               |
| 23 65 13 16-0029 EA 900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 204,655.24<br>104,951.98  | 18,948.39               |
| 23 65 13 16-0030 EA 950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i> | 215,704.08<br>110,639.57  | 19,947.17               |
| 23 65 13 16-0031 EA 1,000 Ton Centrifugal Type Cooling Tower.....<br><i>For Stainless Steel Cooling Tower, Add</i>             | 228,169.45<br>117,185.65  | 20,945.96               |

**23 65 14 Induced-Draft Cooling Towers (23 65)**

**23 65 14 13 Open-Circuit, Induced-Draft Counterflow Cooling Towers (23 65 14)**

**23 65 14 13-0001 Galvanized Induced Draft Axial Single Flow Propeller Type Cooling Towers**

(23 65 14 13)

Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.

|  |                                     |          |
|--|-------------------------------------|----------|
| 23 65 14 13-0002 EA 10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 10,472.37<br>1,211.29<br>2,422.59   | 1,598.06 |
| 23 65 14 13-0003 EA 20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 12,362.31<br>1,464.82<br>2,929.64   | 1,726.47 |
| 23 65 14 13-0004 EA 30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 14,741.98<br>1,774.69<br>3,549.37   | 1,940.50 |
| 23 65 14 13-0005 EA 40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 16,356.21<br>1,971.87<br>3,943.75   | 2,140.26 |
| 23 65 14 13-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 19,327.82<br>2,366.25<br>4,732.50   | 2,368.54 |
| 23 65 14 13-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 22,424.45<br>2,790.08<br>5,580.16   | 2,554.03 |
| 23 65 14 13-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 25,732.23<br>3,211.34<br>6,422.68   | 2,896.48 |
| 23 65 14 13-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 32,141.68<br>3,943.75<br>7,887.50   | 3,638.44 |
| 23 65 14 13-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 35,080.13<br>4,281.78<br>8,563.57   | 4,066.48 |
| 23 65 14 13-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 53,036.90<br>6,851.16<br>13,702.33  | 4,580.14 |
| 23 65 14 13-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 64,235.87<br>8,257.06<br>16,514.11  | 5,721.61 |
| 23 65 14 13-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 83,765.08<br>10,300.37<br>20,600.75 | 9,388.58 |

**23 65 14 13-0014 Galvanized Induced Draft Double Flow Propeller Type Packaged Cooling Towers**

(23 65 14 13)

Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.

|   |                                    |          |
|---|------------------------------------|----------|
| 23 65 14 13-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 32,141.68<br>3,943.75<br>7,887.50  | 3,638.44 |
| 23 65 14 13-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 42,731.00<br>5,305.28<br>10,610.56 | 4,580.14 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 65 Cooling Towers**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|--|--------------------------------------|-------------------------|
| 23 65 14 13-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 54,260.23<br>6,760.71<br>13,521.42   | 5,721.61                |
| 23 65 14 13-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 64,509.24<br>7,949.20<br>15,898.40   | 7,162.71                |
| 23 65 14 13-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 76,952.85<br>9,278.54<br>18,557.08   | 9,388.58                |
| 23 65 14 13-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 85,808.00<br>10,322.16<br>20,644.31  | 10,572.86               |
| 23 65 14 13-0021 EA 400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 95,631.46<br>11,549.55<br>23,099.09  | 11,600.17               |
| 23 65 14 13-0022 EA 450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 108,285.16<br>13,145.83<br>26,291.65 | 12,855.80               |
| 23 65 14 13-0023 EA 500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 121,934.01<br>14,929.90<br>29,859.80 | 13,940.19               |
| 23 65 14 13-0024 EA 550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 130,462.79<br>16,070.10<br>32,140.20 | 14,696.41               |
| 23 65 14 13-0025 EA 600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 139,665.85<br>17,311.44<br>34,622.89 | 15,095.93               |
| 23 65 14 13-0026 EA 700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 157,820.74<br>20,000.44<br>40,000.87 | 15,609.59               |
| 23 65 14 13-0027 EA 800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 173,120.10<br>21,918.65<br>43,837.31 | 17,207.64               |
| 23 65 14 13-0028 EA 900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 191,241.13<br>24,225.88<br>48,451.76 | 18,948.39               |

**23 65 14 14 Open-Circuit, Induced-Draft Crossflow Cooling Towers (23 65 14)**

**23 65 14 14-0001 Galvanized Induced Draft Crossflow Film Filled Propeller Type Cooling Towers (23 65 14 14)**

Note: Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.

|  |                                   |          |
|--|-----------------------------------|----------|
| 23 65 14 14-0002 EA 10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 8,974.50<br>986.61<br>1,973.23    | 1,598.06 |
| 23 65 14 14-0003 EA 15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 9,652.31<br>1,084.00<br>2,168.01  | 1,626.59 |
| 23 65 14 14-0004 EA 20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 10,501.64<br>1,177.16<br>2,354.32 | 1,769.28 |
| 23 65 14 14-0005 EA 25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 12,210.90<br>1,414.29<br>2,828.57 | 1,854.89 |
| 23 65 14 14-0006 EA 30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 13,779.00<br>1,630.24<br>3,260.48 | 1,940.50 |
| 23 65 14 14-0007 EA 35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 15,319.19<br>1,837.72<br>3,675.45 | 2,040.38 |
| 23 65 14 14-0008 EA 40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 16,732.19<br>2,028.27<br>4,056.54 | 2,140.26 |
| 23 65 14 14-0009 EA 45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 18,300.61<br>2,239.99<br>4,479.98 | 2,254.41 |
| 23 65 14 14-0010 EA 50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 19,841.11<br>2,443.24<br>4,886.48 | 2,368.54 |
| 23 65 14 14-0011 EA 60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 22,850.44<br>2,853.98<br>5,707.95 | 2,554.03 |
| 23 65 14 14-0012 EA 70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 26,114.14<br>3,298.59<br>6,597.18 | 2,753.79 |
| 23 65 14 14-0013 EA 75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 27,640.67<br>3,497.60<br>6,995.21 | 2,896.48 |
| 23 65 14 14-0014 EA 80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower .....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 29,338.43<br>3,696.62<br>7,393.24 | 3,139.04 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|--|--------------------------------------|-------------------------|
| 23 65 14 14-0015 EA 90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>    | 30,612.74<br>3,832.12<br>7,664.24    | 3,381.60                |
| 23 65 14 14-0016 EA 100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 33,006.57<br>4,073.48<br>8,146.96    | 3,638.44                |
| 23 65 14 14-0017 EA 125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 34,453.64<br>4,187.81<br>8,375.62    | 4,066.48                |
| 23 65 14 14-0018 EA 150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 39,967.25<br>4,890.72<br>9,781.43    | 4,580.14                |
| 23 65 14 14-0019 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 44,182.96<br>5,390.38<br>10,780.75   | 5,136.61                |
| 23 65 14 14-0020 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 46,620.82<br>5,614.80<br>11,229.60   | 5,721.61                |
| 23 65 14 14-0021 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 53,831.87<br>6,520.96<br>13,041.91   | 6,449.30                |
| 23 65 14 14-0022 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 59,052.63<br>7,130.71<br>14,261.42   | 7,162.71                |
| 23 65 14 14-0023 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 63,436.65<br>7,473.69<br>14,947.39   | 8,475.41                |
| 23 65 14 14-0024 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 68,533.90<br>8,015.70<br>16,031.39   | 9,388.58                |
| 23 65 14 14-0025 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 78,279.32<br>9,192.86<br>18,385.71   | 10,572.86               |
| 23 65 14 14-0026 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 86,271.76<br>10,145.59<br>20,291.18  | 11,600.17               |
| 23 65 14 14-0027 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 95,369.14<br>11,208.42<br>22,416.85  | 12,855.80               |
| 23 65 14 14-0028 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 103,899.17<br>12,224.68<br>24,449.35 | 13,940.19               |
| 23 65 14 14-0029 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 118,457.24<br>14,130.15<br>28,260.30 | 15,095.93               |
| 23 65 14 14-0030 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 132,263.78<br>16,166.89<br>32,333.78 | 15,609.59               |
| 23 65 14 14-0031 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 147,760.48<br>18,114.71<br>36,229.42 | 17,207.64               |
| 23 65 14 14-0032 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>   | 162,864.41<br>19,969.37<br>39,938.74 | 18,948.39               |
| 23 65 14 14-0033 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 177,760.77<br>21,735.11<br>43,470.22 | 20,945.96               |
| 23 65 14 14-0034 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 194,221.37<br>23,966.63<br>47,933.27 | 21,959.01               |
| 23 65 14 14-0035 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 210,088.26<br>26,121.94<br>52,243.87 | 22,900.73               |
| 23 65 14 14-0036 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 223,643.27<br>27,692.90<br>55,385.79 | 24,869.75               |
| 23 65 14 14-0037 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 236,833.76<br>29,174.93<br>58,349.86 | 26,981.47               |
| 23 65 14 14-0038 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 249,616.96<br>30,568.04<br>61,136.09 | 29,207.33               |
| 23 65 14 14-0039 EA 1,600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 261,394.15<br>31,863.77<br>63,727.53 | 31,219.18               |
| 23 65 14 14-0040 EA 1,700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 273,021.13<br>33,066.33<br>66,132.66 | 33,516.37               |
| 23 65 14 14-0041 EA 1,800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 284,626.02<br>34,179.98<br>68,359.95 | 36,170.32               |
| 23 65 14 14-0042 EA 1,900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i> | 295,567.46<br>35,196.23<br>70,392.46 | 38,824.21               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 60 Central Cooling Equipment****23 65 Cooling Towers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|---|--------------------------------------|-------------------------|
| 23 65 14 14-0043 EA 2,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower.....<br><i>For Polymer Coating Over Galvanized Components, Add</i><br><i>For Stainless Steel Support Structure, Add</i>  | 307,428.48<br>36,123.56<br>72,247.12 | 42,448.39               |
| <b>23 65 14 14-0044 Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers</b> <sup>(23 65 14 14)</sup><br>Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.  |                                      |                         |
| 23 65 14 14-0045 EA 100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 86,289.68<br>4,021.98                | 3,638.44                |
| 23 65 14 14-0046 EA 125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 97,781.27<br>4,562.32                | 4,037.94                |
| 23 65 14 14-0047 EA 150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 106,913.91<br>4,977.57               | 4,580.14                |
| 23 65 14 14-0048 EA 200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 119,079.50<br>5,494.53               | 5,721.61                |
| 23 65 14 14-0049 EA 250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 135,130.52<br>6,180.80               | 7,162.71                |
| 23 65 14 14-0050 EA 300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 155,570.51<br>7,023.73               | 9,388.58                |
| 23 65 14 14-0051 EA 350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 169,614.17<br>7,631.03               | 10,572.86               |
| 23 65 14 14-0052 EA 400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 183,400.99<br>8,238.33               | 11,600.17               |
| 23 65 14 14-0053 EA 500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 211,885.14<br>9,474.19               | 13,940.19               |
| 23 65 14 14-0054 EA 600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 239,092.91<br>10,741.83              | 15,095.93               |
| 23 65 14 14-0055 EA 750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 295,438.29<br>13,416.42              | 16,408.61               |
| 23 65 14 14-0056 EA 1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....<br><i>For Induced Draft Counter Flow Type, Add</i>  | 382,948.15<br>17,504.41              | 20,945.96               |
| <b>23 65 14 16 Closed-Circuit, Induced-Draft Counterflow Cooling Towers</b> <sup>(23 65 14)</sup>   |                                      |                         |
| <b>23 65 14 16-0001 Stainless Steel Packaged Propeller Type Cooling Towers</b> <sup>(23 65 14 16)</sup><br>Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.   |                                      |                         |
| <b>23 65 14 16-0002 Draw-Thru Stainless Steel Propeller Type Cooling Towers</b> <sup>(23 65 14 16-0001)</sup><br>Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.   |                                      |                         |
| 23 65 14 16-0003 EA 50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....  | 36,512.03                            | 2,368.54                |
| 23 65 14 16-0004 EA 75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....  | 51,727.95                            | 2,896.48                |
| 23 65 14 16-0005 EA 100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 61,138.60                            | 3,638.44                |
| 23 65 14 16-0006 EA 125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 69,286.26                            | 4,066.48                |
| 23 65 14 16-0007 EA 150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 76,052.03                            | 4,580.14                |
| 23 65 14 16-0008 EA 200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 91,279.39                            | 5,721.61                |
| 23 65 14 16-0009 EA 250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 107,587.31                           | 7,162.71                |
| 23 65 14 16-0010 EA 300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 127,871.48                           | 9,388.58                |
| 23 65 14 16-0011 EA 350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 140,095.76                           | 10,572.86               |
| 23 65 14 16-0012 EA 400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 158,687.91                           | 11,600.17               |
| 23 65 14 16-0013 EA 500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 184,135.56                           | 13,940.19               |
| 23 65 14 16-0014 EA 600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 207,633.36                           | 15,095.93               |
| 23 65 14 16-0015 EA 750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 256,143.88                           | 16,408.61               |
| 23 65 14 16-0016 EA 1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....   | 325,875.14                           | 20,717.67               |
| <b>23 65 14 16-0017 Belt Driven Stainless Steel Propeller Type Cooling Towers</b> <sup>(23 65 14 16-0001)</sup><br>Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.   |                                      |                         |
| 23 65 14 16-0018 EA 100 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....   | 63,627.60                            | 3,638.44                |
| 23 65 14 16-0019 EA 125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....   | 68,898.80                            | 4,066.48                |
| 23 65 14 16-0020 EA 150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....   | 74,316.90                            | 4,580.14                |
| 23 65 14 16-0021 EA 200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....   | 87,998.63                            | 5,721.61                |
| 23 65 14 16-0022 EA 250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....   | 97,315.46                            | 7,162.71                |
| <b>23 65 14 16-0023 Fiberglass Packaged Draw-Thru Propeller Type Cooling Towers</b> <sup>(23 65 14 16)</sup><br>Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel. |                                      |                         |
| 23 65 14 16-0024 EA 5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....   | 4,739.62                             | 1,483.91                |
| 23 65 14 16-0025 EA 8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....   | 4,988.18                             | 1,555.25                |
| 23 65 14 16-0026 EA 10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 5,703.94                             | 1,598.06                |
| 23 65 14 16-0027 EA 15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 6,364.27                             | 1,626.59                |
| 23 65 14 16-0028 EA 20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 8,178.78                             | 1,769.28                |
| 23 65 14 16-0029 EA 25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 8,643.26                             | 1,854.89                |
| 23 65 14 16-0030 EA 30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 9,699.20                             | 1,940.50                |
| 23 65 14 16-0031 EA 40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 11,141.46                            | 2,140.26                |
| 23 65 14 16-0032 EA 50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 12,424.88                            | 2,368.54                |
| 23 65 14 16-0033 EA 60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 13,878.92                            | 2,554.03                |
| 23 65 14 16-0034 EA 70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....  | 15,926.07                            | 2,753.79                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 65 14 16-0035 EA 80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....    | 17,397.45                 | 3,139.04                |
| 23 65 14 16-0036 EA 100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 21,107.89                 | 3,638.44                |
| 23 65 14 16-0037 EA 125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 25,892.11                 | 4,066.48                |
| 23 65 14 16-0038 EA 150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 29,085.55                 | 4,580.14                |
| 23 65 14 16-0039 EA 175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 35,118.68                 | 5,136.61                |
| 23 65 14 16-0040 EA 200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 39,165.61                 | 5,721.61                |
| 23 65 14 16-0041 EA 225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 43,346.73                 | 6,449.30                |
| 23 65 14 16-0042 EA 250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 47,352.27                 | 7,162.71                |
| 23 65 14 16-0043 EA 300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 57,103.74                 | 9,388.58                |
| 23 65 14 16-0044 EA 350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 64,848.92                 | 10,572.86               |
| 23 65 14 16-0045 EA 400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 72,001.20                 | 11,600.17               |
| 23 65 14 16-0046 EA 500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 87,463.03                 | 13,654.82               |
| 23 65 14 16-0047 EA 600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 99,534.23                 | 15,095.93               |
| 23 65 14 16-0048 EA 700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 103,470.70                | 11,600.17               |
| 23 65 14 16-0049 EA 800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....   | 119,964.08                | 17,207.64               |
| 23 65 14 16-0050 EA 1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower ..... | 134,887.26                | 14,339.71               |

**23 65 43 Cooling Tower Basins and Accessories** (23 65)

**23 65 43 00-0001 Fiberglass Cooling Tower Remote Sump Basins** (23 65 43)

Note: Includes one inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.

|  |          |  |
|--|----------|--|
| 23 65 43 00-0002 EA 30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....  | 1,547.99 |  |
| For Anti-Flotation Flanges, Add  | 115.00   |  |
| For Perforated Basins, Add   | 80.00    |  |
| 23 65 43 00-0003 EA 30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 1,754.28 |  |
| For Anti-Flotation Flanges, Add  | 115.00   |  |
| For Perforated Basins, Add   | 80.00    |  |
| 23 65 43 00-0004 EA 36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 1,711.83 |  |
| For Anti-Flotation Flanges, Add  | 253.00   |  |
| For Perforated Basins, Add   | 80.00    |  |
| 23 65 43 00-0005 EA 36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 2,012.58 |  |
| For Anti-Flotation Flanges, Add  | 253.00   |  |
| For Perforated Basins, Add   | 80.00    |  |
| 23 65 43 00-0006 EA 42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 2,189.96 |  |
| For Anti-Flotation Flanges, Add  | 276.00   |  |
| For Perforated Basins, Add   | 100.00   |  |
| 23 65 43 00-0007 EA 42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 2,428.03 |  |
| For Anti-Flotation Flanges, Add  | 276.00   |  |
| For Perforated Basins, Add   | 100.00   |  |
| 23 65 43 00-0008 EA 42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 2,666.10 |  |
| For Anti-Flotation Flanges, Add  | 276.00   |  |
| For Perforated Basins, Add   | 100.00   |  |
| 23 65 43 00-0009 EA 48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 2,678.59 |  |
| For Anti-Flotation Flanges, Add  | 294.00   |  |
| For Perforated Basins, Add   | 140.00   |  |
| 23 65 43 00-0010 EA 48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 2,954.24 |  |
| For Anti-Flotation Flanges, Add  | 294.00   |  |
| For Perforated Basins, Add   | 140.00   |  |
| 23 65 43 00-0011 EA 48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 3,375.47 |  |
| For Anti-Flotation Flanges, Add  | 294.00   |  |
| For Perforated Basins, Add   | 140.00   |  |
| 23 65 43 00-0012 EA 48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 3,799.58 |  |
| For Anti-Flotation Flanges, Add  | 294.00   |  |
| For Perforated Basins, Add   | 140.00   |  |
| 23 65 43 00-0013 EA 48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin ..... | 4,069.45 |  |
| For Anti-Flotation Flanges, Add  | 294.00   |  |
| For Perforated Basins, Add   | 140.00   |  |

**23 70 Central HVAC Equipment** (23)

Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 71 Thermal Storage** (23 70)

**23 71 13 Thermal Heat Storage** (23 71)

**23 71 13 23 Pressurized-Water Thermal Storage Tanks** (23 71 13)

**23 71 13 23-0001 Nickelshield Storage Tanks** (23 71 13 23)

|  |            |          |
|--|------------|----------|
| 23 71 13 23-0002 EA 325 Gallon Nickelshield Storage Tank .....   | 29,878.86  | 271.14   |
| 23 71 13 23-0003 EA 490 Gallon Nickelshield Storage Tank .....   | 41,689.93  | 359.49   |
| 23 71 13 23-0004 EA 605 Gallon Nickelshield Storage Tank .....   | 47,736.00  | 434.81   |
| 23 71 13 23-0005 EA 740 Gallon Nickelshield Storage Tank .....   | 56,528.99  | 543.51   |
| 23 71 13 23-0006 EA 940 Gallon Nickelshield Storage Tank .....   | 65,795.57  | 722.51   |
| 23 71 13 23-0007 EA 1,505 Gallon Nickelshield Storage Tank ..... | 85,057.99  | 1,087.16 |
| 23 71 13 23-0008 EA 1,615 Gallon Nickelshield Storage Tank ..... | 96,051.49  | 1,224.50 |
| 23 71 13 23-0009 EA 2,275 Gallon Nickelshield Storage Tank ..... | 131,887.65 | 1,626.47 |
| 23 71 13 23-0010 EA 3,815 Gallon Nickelshield Storage Tank ..... | 170,586.40 | 1,890.83 |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 72 Air-To-Air Energy Recovery Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**23 72 Air-To-Air Energy Recovery Equipment** (23 70)**23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment** (23 72)**23 72 13 00-0001 Enthalpy Recovery Wheel** (23 72 13)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 23 72 13 00-0002 | EA | Up To 1,000 CFM Enthalpy Recovery Wheel       | 11,017.68 | 1,020.93 |
| 23 72 13 00-0003 | EA | >1,000 To 2,000 CFM Enthalpy Recovery Wheel   | 12,272.44 | 1,225.42 |
| 23 72 13 00-0004 | EA | >2,000 To 4,000 CFM Enthalpy Recovery Wheel   | 15,355.84 | 1,531.78 |
| 23 72 13 00-0005 | EA | >4,000 To 6,000 CFM Enthalpy Recovery Wheel   | 17,938.97 | 1,750.06 |
| 23 72 13 00-0006 | EA | >6,000 To 8,000 CFM Enthalpy Recovery Wheel   | 19,804.65 | 1,838.14 |
| 23 72 13 00-0007 | EA | >8,000 To 10,000 CFM Enthalpy Recovery Wheel  | 23,984.35 | 2,042.63 |
| 23 72 13 00-0008 | EA | >10,000 To 15,000 CFM Enthalpy Recovery Wheel | 31,604.47 | 2,144.49 |
| 23 72 13 00-0009 | EA | >15,000 To 20,000 CFM Enthalpy Recovery Wheel | 39,197.66 | 2,297.67 |
| 23 72 13 00-0010 | EA | >20,000 To 25,000 CFM Enthalpy Recovery Wheel | 47,397.98 | 2,625.48 |
| 23 72 13 00-0011 | EA | >25,000 To 30,000 CFM Enthalpy Recovery Wheel | 53,309.56 | 3,369.92 |
| 23 72 13 00-0012 | EA | >30,000 To 40,000 CFM Enthalpy Recovery Wheel | 71,136.49 | 3,829.45 |
| 23 72 13 00-0013 | EA | >40,000 To 50,000 CFM Enthalpy Recovery Wheel | 84,628.00 | 4,595.34 |

**23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment** (23 72)**23 72 16 00-0001 Glycol Heat Pipe Type, 50 Percent Efficient** (23 72 16)

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 23 72 16 00-0002 | EA | 100 MBH, 1,700 CFM Glycol Heat Recovery Unit | 19,379.95 | 765.89   |
| 23 72 16 00-0003 | EA | 160 MBH, 2,700 CFM Glycol Heat Recovery Unit | 30,389.47 | 1,021.24 |
| 23 72 16 00-0004 | EA | 620 MBH, 4,000 CFM Glycol Heat Recovery Unit | 45,059.26 | 1,531.78 |

**23 73 Indoor Central-Station Air-Handling Units** (23 70)**23 73 13 Modular Indoor Central-Station Air-Handling Units** (23 73)

Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.

**23 73 13 00-0001 Single Zone Units** (23 73 13)

Note: Horizontal/vertical draw-thru fan, motor and cabinet.

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 23 73 13 00-0002 | EA | 300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan | 2,826.22 | 723.18 |
|                  |    | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 230.97   |        |
|                  |    | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 430.94   |        |
|                  |    | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                                       | 641.24   |        |
|                  |    | <i>For Manual Roll Filter, Add</i>  | 1,089.52 |        |
|                  |    | <i>For Automatic Roll Filter, Add</i>   | 1,179.17 |        |
|                  |    | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 551.59   |        |
|                  |    | <i>For Electric Heating Coil, Add</i>   | 910.21   |        |
|                  |    | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 910.21   |        |
|                  |    | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 820.55   |        |
|                  |    | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 730.90   |        |
|                  |    | <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>                           | 589.59   |        |
|                  |    | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 1,089.52 |        |
|                  |    | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 999.86   |        |
|                  |    | <i>For Hot Water Heating Coil, Copper Fins, Add</i>   | 730.90   |        |
|                  |    | <i>For Variable Air Volume, Add</i>   | 251.03   |        |
|                  |    | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 1,363.18 |        |
|                  |    | <i>For 2 Coils, Independent Circuits, Add</i>   | 318.48   |        |
| 23 73 13 00-0003 | EA | 500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan | 4,411.15 | 867.81 |
|                  |    | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 379.18   |        |
|                  |    | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 721.19   |        |
|                  |    | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                                       | 1,075.60 |        |
|                  |    | <i>For Manual Roll Filter, Add</i>  | 1,868.70 |        |
|                  |    | <i>For Automatic Roll Filter, Add</i>   | 2,027.32 |        |
|                  |    | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 916.98   |        |
|                  |    | <i>For Electric Heating Coil, Add</i>   | 1,551.46 |        |
|                  |    | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 1,551.46 |        |
|                  |    | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 1,392.84 |        |
|                  |    | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 1,234.22 |        |
|                  |    | <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>                           | 1,013.66 |        |
|                  |    | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 1,868.70 |        |
|                  |    | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 1,710.08 |        |
|                  |    | <i>For Hot Water Heating Coil, Copper Fins, Add</i>   | 1,234.22 |        |
|                  |    | <i>For Variable Air Volume, Add</i>   | 444.14   |        |
|                  |    | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 1,507.13 |        |
|                  |    | <i>For 2 Coils, Independent Circuits, Add</i>   | 504.56   |        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0004 EA 800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....   | 4,977.17                  | 932.00                  |
| For Flat Filter Box And Throwaway Filters, Add  | 431.15                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 822.36                    |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 1,226.89                  |                         |
| For Manual Roll Filter, Add   | 2,138.35                  |                         |
| For Automatic Roll Filter, Add  | 2,320.64                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 1,044.59                  |                         |
| For Electric Heating Coil, Add  | 1,773.76                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 1,773.76                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 1,591.47                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 1,409.18                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 1,160.32                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 2,138.35                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 1,956.05                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 1,409.18                  |                         |
| For Variable Air Volume, Add  | 510.42                    |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,571.93                  |                         |
| For 2 Coils, Independent Circuits, Add  | 570.63                    |                         |
| 23 73 13 00-0005 EA 1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 5,606.09                  | 1,001.48                |
| For Flat Filter Box And Throwaway Filters, Add  | 489.06                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 935.20                    |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 1,395.65                  |                         |
| For Manual Roll Filter, Add   | 2,439.44                  |                         |
| For Automatic Roll Filter, Add  | 2,648.20                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 1,186.89                  |                         |
| For Electric Heating Coil, Add  | 2,021.93                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 2,021.93                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 1,813.17                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 1,604.41                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 1,324.10                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 2,439.44                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 2,230.69                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 1,604.41                  |                         |
| For Variable Air Volume, Add  | 584.53                    |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,641.63                  |                         |
| For 2 Coils, Independent Circuits, Add  | 644.11                    |                         |
| 23 73 13 00-0006 EA 1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 6,346.30                  | 1,077.41                |
| For Flat Filter Box And Throwaway Filters, Add  | 557.76                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 1,069.40                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 1,596.42                  |                         |
| For Manual Roll Filter, Add   | 2,798.65                  |                         |
| For Automatic Roll Filter, Add  | 3,039.10                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 1,355.97                  |                         |
| For Electric Heating Coil, Add  | 2,317.76                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 2,317.76                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 2,077.31                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 1,836.86                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 1,519.55                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 2,798.65                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 2,558.20                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 1,836.86                  |                         |
| For Variable Air Volume, Add  | 673.25                    |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,716.16                  |                         |
| For 2 Coils, Independent Circuits, Add  | 730.81                    |                         |
| 23 73 13 00-0007 EA 1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 7,208.54                  | 1,157.86                |
| For Flat Filter Box And Throwaway Filters, Add  | 638.15                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 1,226.68                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 1,831.75                  |                         |
| For Manual Roll Filter, Add   | 3,220.38                  |                         |
| For Automatic Roll Filter, Add  | 3,498.10                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 1,554.03                  |                         |
| For Electric Heating Coil, Add  | 2,664.93                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 2,664.93                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 2,387.20                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 2,109.48                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 1,749.05                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 3,220.38                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 2,942.65                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 2,109.48                  |                         |
| For Variable Air Volume, Add  | 777.63                    |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,797.83                  |                         |
| For 2 Coils, Independent Circuits, Add  | 831.94                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0008 EA 1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 7,888.17                  | 1,244.77                |
| For Flat Filter Box And Throwaway Filters, Add  | 700.09                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 1,346.95                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 2,011.55                  |                         |
| For Manual Roll Filter, Add   | 3,539.97                  |                         |
| For Automatic Roll Filter, Add  | 3,845.65                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 1,705.87                  |                         |
| For Electric Heating Coil, Add  | 2,928.60                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 2,928.60                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 2,622.92                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 2,317.23                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 1,922.83                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 3,539.97                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 3,234.29                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 2,317.23                  |                         |
| For Variable Air Volume, Add  | 855.91                    |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,882.15                  |                         |
| For 2 Coils, Independent Circuits, Add  | 911.09                    |                         |
| 23 73 13 00-0009 EA 1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 8,626.14                  | 1,341.50                |
| For Flat Filter Box And Throwaway Filters, Add  | 766.81                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 1,476.15                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 2,204.64                  |                         |
| For Manual Roll Filter, Add   | 3,882.17                  |                         |
| For Automatic Roll Filter, Add  | 4,217.68                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 1,869.13                  |                         |
| For Electric Heating Coil, Add  | 3,211.16                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 3,211.16                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 2,875.65                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 2,540.15                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 2,108.84                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 3,882.17                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 3,546.67                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 2,540.15                  |                         |
| For Variable Air Volume, Add  | 939.42                    |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,803.81                  |                         |
| For 2 Coils, Independent Circuits, Add  | 996.82                    |                         |
| 23 73 13 00-0010 EA 2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 9,435.86                  | 1,438.23                |
| For Flat Filter Box And Throwaway Filters, Add  | 840.85                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 1,620.06                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 2,419.81                  |                         |
| For Manual Roll Filter, Add   | 4,265.10                  |                         |
| For Automatic Roll Filter, Add  | 4,634.16                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 2,050.76                  |                         |
| For Electric Heating Coil, Add  | 3,526.99                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 3,526.99                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 3,157.93                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 2,788.87                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 2,317.08                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 4,265.10                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 3,896.04                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 2,788.87                  |                         |
| For Variable Air Volume, Add  | 1,033.36                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,880.10                  |                         |
| For 2 Coils, Independent Circuits, Add  | 1,091.21                  |                         |
| 23 73 13 00-0011 EA 2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 10,186.05                 | 1,545.92                |
| For Flat Filter Box And Throwaway Filters, Add  | 908.18                    |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 1,750.11                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 2,614.13                  |                         |
| For Manual Roll Filter, Add   | 4,608.53                  |                         |
| For Automatic Roll Filter, Add  | 5,007.41                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 2,215.25                  |                         |
| For Electric Heating Coil, Add  | 3,810.77                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 3,810.77                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 3,411.89                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 3,013.01                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 2,503.70                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 4,608.53                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 4,209.65                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 3,013.01                  |                         |
| For Variable Air Volume, Add  | 1,116.86                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 1,964.65                  |                         |
| For 2 Coils, Independent Circuits, Add  | 1,178.16                  |                         |



|  |  |           |
|--|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> |  | <b>23</b> |
| Central HVAC Equipment                                   |  | 23 70     |
| Indoor Central-Station Air-Handling Units                |  | 23 73     |

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|-------|------------|-----|---|---|----------------------|
| 23 73 | 13 00-0012 | EA  | 2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 10,987.40<br>979.94<br>1,888.59<br>2,821.01<br>4,973.84<br>5,404.41<br>2,390.44<br>4,112.71<br>4,112.71<br>3,682.14<br>3,251.57<br>2,702.20<br>4,973.84<br>4,543.27<br>3,251.57<br>1,205.59<br>2,056.84<br>1,270.97   | 1,663.44             |
| 23 73 | 13 00-0013 | EA  | 3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 12,778.49<br>1,140.32<br>2,198.12<br>3,283.43<br>5,790.41<br>6,291.81<br>2,782.04<br>4,787.62<br>4,787.62<br>4,286.23<br>3,784.83<br>3,145.90<br>5,790.41<br>5,289.02<br>3,784.83<br>1,403.91<br>2,262.81<br>1,478.41 | 1,925.46             |
| 23 73 | 13 00-0014 | EA  | 3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 13,394.81<br>1,191.64<br>2,294.57<br>3,427.08<br>6,036.57<br>6,558.47<br>2,905.18<br>4,992.77<br>4,992.77<br>4,470.88<br>3,948.98<br>3,279.24<br>6,036.57<br>5,514.67<br>3,948.98<br>1,461.32<br>2,376.26<br>1,548.24 | 2,069.19             |
| 23 73 | 13 00-0015 | EA  | 3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 14,024.90<br>1,243.65<br>2,391.99<br>3,572.10<br>6,284.11<br>6,826.51<br>3,029.70<br>5,199.30<br>5,199.30<br>4,656.90<br>4,114.50<br>3,413.26<br>6,284.11<br>5,741.71<br>4,114.50<br>1,518.73<br>2,497.27<br>1,619.45 | 2,223.77             |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0016 EA 4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 15,411.46                 | 2,567.29                |
| For Flat Filter Box And Throwaway Filters, Add  | 1,357.71                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 2,605.36                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 3,889.69                  |                         |
| For Manual Roll Filter, Add   | 6,825.37                  |                         |
| For Automatic Roll Filter, Add  | 7,412.51                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 3,302.56                  |                         |
| For Electric Heating Coil, Add  | 5,651.10                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 5,651.10                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 5,063.97                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 4,476.83                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 3,706.26                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 6,825.37                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 6,238.24                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 4,476.83                  |                         |
| For Variable Air Volume, Add  | 1,643.98                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 2,407.49                  |                         |
| For 2 Coils, Independent Circuits, Add  | 1,776.00                  |                         |
| 23 73 13 00-0017 EA 4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 15,411.46                 | 2,567.29                |
| For Flat Filter Box And Throwaway Filters, Add  | 1,357.71                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 2,605.36                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 3,889.69                  |                         |
| For Manual Roll Filter, Add   | 6,825.37                  |                         |
| For Automatic Roll Filter, Add  | 7,412.51                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 3,302.56                  |                         |
| For Electric Heating Coil, Add  | 5,651.10                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 5,651.10                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 5,063.97                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 4,476.83                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 3,706.26                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 6,825.37                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 6,238.24                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 4,476.83                  |                         |
| For Variable Air Volume, Add  | 1,643.98                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 2,407.49                  |                         |
| For 2 Coils, Independent Circuits, Add  | 1,776.00                  |                         |
| 23 73 13 00-0018 EA 5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 16,925.32                 | 2,948.76                |
| For Flat Filter Box And Throwaway Filters, Add  | 1,481.86                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 2,837.33                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 4,234.93                  |                         |
| For Manual Roll Filter, Add   | 7,412.92                  |                         |
| For Automatic Roll Filter, Add  | 8,048.52                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 3,599.33                  |                         |
| For Electric Heating Coil, Add  | 6,141.72                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 6,141.72                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 5,506.12                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 4,870.52                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 4,024.26                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 7,412.92                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 6,777.32                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 4,870.52                  |                         |
| For Variable Air Volume, Add  | 1,779.68                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 2,625.34                  |                         |
| For 2 Coils, Independent Circuits, Add  | 1,946.77                  |                         |
| 23 73 13 00-0019 EA 5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 17,805.16                 | 3,199.16                |
| For Flat Filter Box And Throwaway Filters, Add  | 1,551.95                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 2,966.76                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 4,427.29                  |                         |
| For Manual Roll Filter, Add   | 7,735.76                  |                         |
| For Automatic Roll Filter, Add  | 8,397.45                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 3,765.60                  |                         |
| For Electric Heating Coil, Add  | 6,412.37                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 6,412.37                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 5,750.68                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 5,088.98                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add  | 4,198.73                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 7,735.76                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 7,074.06                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add  | 5,088.98                  |                         |
| For Variable Air Volume, Add  | 1,852.74                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add  | 2,768.52                  |                         |
| For 2 Coils, Independent Circuits, Add  | 2,045.19                  |                         |



|  |  |           |
|--|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> |  | <b>23</b> |
| Central HVAC Equipment                                   |  | 23 70     |
| Indoor Central-Station Air-Handling Units                |  | 23 73     |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|------------------|-----|-----|---|---|----------------------|
| 23 73 13 00-0020 | EA  |     | 6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 18,666.01<br>1,621.09<br>3,094.87<br>4,617.76<br>8,056.70<br>8,744.49<br>3,929.97<br>6,681.12<br>6,681.12<br>5,993.33<br>5,305.54<br>4,372.24<br>8,056.70<br>7,368.91<br>5,305.54<br>1,925.81<br>2,904.10<br>2,141.72 | 3,436.91             |
| 23 73 13 00-0021 | EA  |     | 6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 19,532.57<br>1,690.51<br>3,223.38<br>4,808.79<br>8,378.21<br>9,092.09<br>4,094.91<br>6,950.44<br>6,950.44<br>6,236.56<br>5,522.67<br>4,546.05<br>8,378.21<br>7,664.33<br>5,522.67<br>1,998.87<br>3,041.96<br>2,238.81 | 3,679.18             |
| 23 73 13 00-0022 | EA  |     | 7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 20,531.91<br>1,770.30<br>3,370.87<br>5,028.02<br>8,746.55<br>9,490.25<br>4,284.31<br>7,259.13<br>7,259.13<br>6,515.43<br>5,771.72<br>4,745.13<br>8,746.55<br>8,002.84<br>5,771.72<br>2,082.38<br>3,203.12<br>2,350.67 | 3,960.31             |
| 23 73 13 00-0023 | EA  |     | 7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 21,547.72<br>1,850.92<br>3,519.52<br>5,248.89<br>9,116.53<br>9,890.06<br>4,475.36<br>7,569.48<br>7,569.48<br>6,795.95<br>6,022.42<br>4,945.03<br>9,116.53<br>8,343.00<br>6,022.42<br>2,165.88<br>3,003.14<br>2,464.18 | 4,243.25             |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....  | 22,597.46                 | 4,569.46                |
| For Flat Filter Box And Throwaway Filters, Add   | 1,933.23                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 3,670.54                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 5,473.15                  |                         |
| For Manual Roll Filter, Add  | 9,489.91                  |                         |
| For Automatic Roll Filter, Add   | 10,293.27                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 4,669.80                  |                         |
| For Electric Heating Coil, Add   | 7,883.21                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 7,883.21                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 7,079.86                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add   | 6,276.51                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add   | 5,146.63                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 9,489.91                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 8,686.56                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add   | 6,276.51                  |                         |
| For Variable Air Volume, Add   | 2,249.39                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,139.13                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,581.09                  |                         |
| 23 73 13 00-0025 EA 9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....  | 23,794.83                 | 4,950.16                |
| For Flat Filter Box And Throwaway Filters, Add   | 2,026.64                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 3,841.58                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 5,727.09                  |                         |
| For Manual Roll Filter, Add  | 9,911.61                  |                         |
| For Automatic Roll Filter, Add   | 10,748.51                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 4,890.19                  |                         |
| For Electric Heating Coil, Add   | 8,237.80                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 8,237.80                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 7,400.90                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add   | 6,564.00                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add   | 5,374.25                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 9,911.61                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 9,074.70                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add   | 6,564.00                  |                         |
| For Variable Air Volume, Add   | 2,343.33                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,297.03                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,714.24                  |                         |
| 23 73 13 00-0026 EA 10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 24,961.06                 | 5,285.15                |
| For Flat Filter Box And Throwaway Filters, Add   | 2,118.51                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 4,010.45                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 5,977.92                  |                         |
| For Manual Roll Filter, Add  | 10,330.18                 |                         |
| For Automatic Roll Filter, Add   | 11,200.64                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 5,107.47                  |                         |
| For Electric Heating Coil, Add   | 8,589.28                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 8,589.28                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 7,718.82                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add   | 6,848.37                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add   | 5,600.32                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 10,330.18                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 9,459.73                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add   | 6,848.37                  |                         |
| For Variable Air Volume, Add   | 2,437.27                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,445.60                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,844.29                  |                         |
| 23 73 13 00-0027 EA 11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... | 25,030.28                 | 5,117.39                |
| For Flat Filter Box And Throwaway Filters, Add   | 2,138.74                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 4,058.91                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 6,051.94                  |                         |
| For Manual Roll Filter, Add  | 10,488.08                 |                         |
| For Automatic Roll Filter, Add   | 11,375.31                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 5,164.71                  |                         |
| For Electric Heating Coil, Add   | 8,713.63                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 8,713.63                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 7,826.40                  |                         |
| For Steam Heating Coil, Aluminum Fins, Add   | 6,939.17                  |                         |
| For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add   | 5,687.66                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 10,488.08                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 9,600.86                  |                         |
| For Hot Water Heating Coil, Copper Fins, Add   | 6,939.17                  |                         |
| For Variable Air Volume, Add   | 2,484.24                  |                         |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,365.71                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,857.92                  |                         |



|  |  |           |
|--|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> |  | <b>23</b> |
| Central HVAC Equipment                                   |  | 23 70     |
| Indoor Central-Station Air-Handling Units                |  | 23 73     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 23 73 13 00-0028 EA 12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 26,189.28<br>2,213.47<br>4,183.66<br>6,234.94<br>10,754.96<br>11,658.96<br>5,330.94<br>8,946.95<br>8,946.95<br>8,042.95<br>7,138.95<br>5,829.48<br>10,754.96<br>9,850.96<br>7,138.95<br>2,531.21<br>3,612.76<br>2,980.53    | 5,677.60                |
| 23 73 13 00-0029 EA 13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 27,560.45<br>2,336.08<br>4,420.18<br>6,588.28<br>11,378.56<br>12,336.62<br>5,630.22<br>9,462.45<br>9,462.45<br>8,504.39<br>7,546.33<br>6,168.31<br>11,378.56<br>10,420.51<br>7,546.33<br>2,682.56<br>3,079.86<br>3,139.27   | 5,905.66                |
| 23 73 13 00-0030 EA 15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 29,012.29<br>2,462.73<br>4,662.35<br>6,949.68<br>12,010.23<br>13,022.34<br>5,937.56<br>9,986.01<br>9,986.01<br>8,973.90<br>7,961.79<br>6,511.17<br>12,010.23<br>10,998.12<br>7,961.79<br>2,833.91<br>3,154.01<br>3,306.07   | 6,134.37                |
| 23 73 13 00-0031 EA 16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br>For Flat Filter Box And Throwaway Filters, Add<br>For Medium Capacity Filter Box And Throwaway Filters, Add<br>For Combination Filter Mixing Box And Throwaway Filters, Add<br>For Manual Roll Filter, Add<br>For Automatic Roll Filter, Add<br>For Hot Water Heating Coil, Aluminum Fins, Add<br>For Electric Heating Coil, Add<br>For Chilled Water Cooling Coil, Aluminum Fins, Add<br>For Direct Expansion Cooling Coil, Aluminum Fins, Add<br>For Steam Heating Coil, Aluminum Fins, Add<br>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br>For Chilled Water Cooling Coil, Copper Fins, Add<br>For Direct Expansion Cooling Coil, Copper Fins, Add<br>For Hot Water Heating Coil, Copper Fins, Add<br>For Variable Air Volume, Add<br>For Economizer, Panel, Controls And Damper(s), Add<br>For 2 Coils, Independent Circuits, Add | 30,538.35<br>2,600.54<br>4,929.10<br>7,348.32<br>12,716.42<br>13,790.05<br>6,274.70<br>10,569.18<br>10,569.18<br>9,495.56<br>8,421.94<br>6,895.02<br>12,716.42<br>11,642.80<br>8,421.94<br>3,006.14<br>3,213.19<br>3,483.28 | 6,370.31                |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 73 13 00-0032 EA 17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 32,136.47<br>2,741.95<br>5,200.89<br>7,754.17<br>13,429.82<br>14,564.95<br>6,619.04<br>11,159.56<br>11,159.56<br>10,024.43<br>8,889.30<br>7,282.48<br>13,429.82<br>12,294.69<br>8,889.30<br>3,178.37<br>3,286.77<br>3,667.70   | 6,606.50                |
| 23 73 13 00-0033 EA 20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 35,771.76<br>3,070.97<br>5,838.21<br>9,989.08<br>14,349.17<br>15,118.60<br>6,141.94<br>6,654.89<br>11,271.46<br>9,989.08<br>8,706.70<br>6,918.11<br>13,836.22<br>12,553.84<br>9,989.08<br>3,590.67<br>3,506.73<br>4,090.13     | 7,082.64                |
| 23 73 13 00-0034 EA 22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 39,648.45<br>3,417.65<br>6,506.97<br>11,140.96<br>16,020.71<br>16,881.85<br>6,835.29<br>7,409.38<br>12,576.18<br>11,140.96<br>9,705.74<br>7,723.31<br>15,446.63<br>14,011.40<br>11,140.96<br>4,018.62<br>3,650.20<br>4,538.93  | 7,633.16                |
| 23 73 13 00-0035 EA 25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 43,864.03<br>3,801.77<br>7,252.76<br>12,429.24<br>17,898.37<br>18,863.51<br>7,603.54<br>8,246.97<br>14,037.81<br>12,429.24<br>10,820.67<br>8,627.47<br>17,254.94<br>15,646.38<br>12,429.24<br>4,503.99<br>3,781.22<br>5,029.83 | 8,178.77                |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Central HVAC Equipment</b>                            | <b>23 70</b> |
| <b>Indoor Central-Station Air-Handling Units</b>         | <b>23 73</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 73 13 00-0036 EA 27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 53,733.96<br>4,744.47<br>9,111.59<br>15,662.26<br>22,658.69<br>23,893.36<br>9,488.94<br>10,312.05<br>17,720.04<br>15,662.26<br>13,604.49<br>10,917.79<br>21,835.58<br>19,777.81<br>15,662.26<br>5,761.77<br>3,936.24<br>6,196.51   | 8,808.32                |
| 23 73 13 00-0037 EA 30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 59,944.48<br>5,323.40<br>10,244.18<br>17,625.34<br>25,534.35<br>26,930.05<br>10,646.81<br>11,577.28<br>19,951.52<br>17,625.34<br>15,299.16<br>12,301.94<br>24,603.88<br>22,277.70<br>17,625.34<br>6,513.30<br>3,778.14<br>6,924.92 | 9,401.59                |
| 23 73 13 00-0038 EA 32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 65,639.22<br>5,841.13<br>11,248.59<br>19,359.77<br>28,060.95<br>29,596.45<br>11,682.26<br>12,705.93<br>21,918.94<br>19,359.77<br>16,800.60<br>13,518.64<br>27,037.28<br>24,478.11<br>19,359.77<br>7,165.67<br>3,933.37<br>7,587.59 | 10,124.13               |
| 23 73 13 00-0039 EA 35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 71,996.70<br>6,414.36<br>12,357.54<br>21,272.31<br>30,841.70<br>32,530.41<br>12,828.72<br>13,954.53<br>24,086.83<br>21,272.31<br>18,457.78<br>14,857.94<br>29,715.89<br>26,901.36<br>21,272.31<br>7,880.68<br>4,120.92<br>8,325.48 | 11,497.20               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 73 13 00-0040 EA 37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 77,452.44<br>6,912.68<br>13,325.83<br>22,945.55<br>33,281.76<br>35,105.80<br>13,825.37<br>15,041.39<br>25,985.62<br>22,945.55<br>19,905.49<br>16,032.87<br>32,065.74<br>29,025.68<br>22,945.55<br>8,512.17<br>4,262.68<br>8,961.27   | 11,661.40               |
| 23 73 13 00-0041 EA 40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 83,528.30<br>7,458.79<br>14,381.15<br>24,764.69<br>35,924.75<br>37,894.18<br>14,917.57<br>16,230.52<br>28,047.06<br>24,764.69<br>21,482.32<br>17,305.90<br>34,611.81<br>31,329.43<br>24,764.69<br>9,190.64<br>4,065.11<br>9,665.78   | 12,474.84               |
| 23 73 13 00-0042 EA 45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 90,146.34<br>8,052.50<br>15,527.73<br>26,740.56<br>38,794.19<br>40,921.30<br>16,105.01<br>17,523.08<br>30,285.75<br>26,740.56<br>23,195.38<br>18,688.06<br>37,376.12<br>33,830.93<br>26,740.56<br>9,926.52<br>4,235.33<br>10,432.71  | 13,469.35               |
| 23 73 13 00-0043 EA 47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 93,919.56<br>8,386.55<br>16,169.86<br>27,844.82<br>40,392.76<br>42,607.10<br>16,773.10<br>18,249.33<br>31,535.39<br>27,844.82<br>24,154.24<br>19,458.27<br>38,916.53<br>35,225.96<br>27,844.82<br>10,333.60<br>4,343.52<br>10,868.18 | 14,102.00               |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Central HVAC Equipment</b>                            | <b>23 70</b> |
| <b>Indoor Central-Station Air-Handling Units</b>         | <b>23 73</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 73 13 00-0044 EA 50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i> | 97,473.93<br>8,702.20<br>16,777.28<br>28,889.91<br>41,906.81<br>44,203.92<br>17,404.40<br>18,935.80<br>32,718.41<br>28,889.91<br>25,061.40<br>20,187.71<br>40,375.41<br>36,546.91<br>28,889.91<br>10,719.81<br>4,442.99<br>11,278.79   | 14,644.38               |
| 23 73 13 00-0045 EA 55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i>  | 105,072.02<br>9,389.65<br>18,108.77<br>31,187.45<br>45,250.02<br>47,731.65<br>18,779.30<br>20,433.72<br>35,323.50<br>31,187.45<br>27,051.40<br>21,797.80<br>43,595.60<br>39,459.55<br>31,187.45<br>11,580.94<br>4,623.88<br>12,161.62  | 15,638.75               |
| 23 73 13 00-0046 EA 60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i>  | 114,874.18<br>10,291.69<br>19,865.93<br>34,227.31<br>49,690.43<br>52,419.22<br>20,583.37<br>22,402.56<br>38,775.28<br>34,227.31<br>29,679.33<br>23,935.62<br>47,871.24<br>43,323.26<br>34,227.31<br>12,734.34<br>4,291.46<br>13,306.61 | 16,723.52               |
| 23 73 13 00-0047 EA 65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ....<br><i>For Flat Filter Box And Throwaway Filters, Add</i><br><i>For Medium Capacity Filter Box And Throwaway Filters, Add</i><br><i>For Combination Filter Mixing Box And Throwaway Filters, Add</i><br><i>For Manual Roll Filter, Add</i><br><i>For Automatic Roll Filter, Add</i><br><i>For Hot Water Heating Coil, Aluminum Fins, Add</i><br><i>For Electric Heating Coil, Add</i><br><i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i><br><i>For Steam Heating Coil, Aluminum Fins, Add</i><br><i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i><br><i>For Chilled Water Cooling Coil, Copper Fins, Add</i><br><i>For Direct Expansion Cooling Coil, Copper Fins, Add</i><br><i>For Hot Water Heating Coil, Copper Fins, Add</i><br><i>For Variable Air Volume, Add</i><br><i>For Economizer, Panel, Controls And Damper(s), Add</i><br><i>For 2 Coils, Independent Circuits, Add</i>  | 125,883.34<br>11,296.94<br>21,819.05<br>37,602.21<br>54,611.64<br>57,613.31<br>22,593.88<br>24,594.99<br>42,604.98<br>37,602.21<br>32,599.43<br>26,305.27<br>52,610.53<br>47,607.76<br>37,602.21<br>14,007.77<br>4,482.78<br>14,589.44 | 18,079.48               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 73 13 00-0048 | EA  |     | 70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan..... | 138,157.10             | 19,616.24            |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 12,412.03              |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 23,981.84              |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>   | 41,336.57              |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 60,050.75              |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 63,353.25              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 24,824.05              |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 27,025.72              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 46,840.74              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 41,336.57              |                      |
|                  |     |     | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 35,832.39              |                      |
|                  |     |     | <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>                                   | 28,924.54              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 57,849.08              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 52,344.91              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Copper Fins, Add</i>   | 41,336.57              |                      |
|                  |     |     | <i>For Variable Air Volume, Add</i>   | 15,411.68              |                      |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 4,707.37               |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 16,017.38              |                      |
| 23 73 13 00-0049 |     |     | <b>Multi-Zone Units</b> <small>(23 73 13)</small>   |                        |                      |
|                  |     |     | Note: Horizontal/vertical blow-thru fan, motor and cabinet.   |                        |                      |
| 23 73 13 00-0050 | EA  |     | 1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....                     | 8,288.25               | 1,626.89             |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 2,266.58               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 712.64                 |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 1,355.57               |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>   | 1,723.51               |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 3,512.88               |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 3,512.88               |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 828.83                 |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 948.12                 |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 2,916.42               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 2,916.42               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 3,512.88               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 3,512.88               |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 948.12                 |                      |
| 23 73 13 00-0051 | EA  |     | 1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....                     | 10,330.24              | 2,038.20             |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 2,678.27               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 887.43                 |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 1,687.51               |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>   | 2,145.79               |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 4,371.31               |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 4,371.31               |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 1,033.02               |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 1,181.39               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 3,629.47               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 3,629.47               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 4,371.31               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 4,371.31               |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 1,181.39               |                      |
| 23 73 13 00-0052 | EA  |     | 1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....                     | 12,716.57              | 2,169.28             |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 2,809.10               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 1,116.72               |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 2,140.48               |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>   | 2,714.33               |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 5,599.69               |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 5,599.69               |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 1,271.66               |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 1,464.01               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 4,637.90               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 4,637.90               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 5,599.69               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 5,599.69               |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 1,464.01               |                      |
| 23 73 13 00-0053 | EA  |     | 2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....                     | 13,233.72              | 2,322.96             |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>   | 2,962.35               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 1,157.49               |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>  | 2,215.45               |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>   | 2,810.78               |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 5,785.61               |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 5,785.61               |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 1,323.37               |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 1,521.69               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>   | 4,794.00               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>  | 4,794.00               |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 5,785.61               |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>  | 5,785.61               |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 1,521.69               |                      |



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| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b> |
| Central HVAC Equipment                                   | 23 70     |
| Indoor Central-Station Air-Handling Units                | 23 73     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 73 13 00-0054 EA 2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 15,449.39                 | 2,490.19                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,130.29                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 1,367.06                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 2,627.40                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 3,328.72                  |                         |
| For Manual Roll Filter, Add  | 6,896.27                  |                         |
| For Automatic Roll Filter, Add   | 6,896.27                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 1,544.94                  |                         |
| For Electric Heating Coil, Add   | 1,782.78                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 5,707.08                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 5,707.08                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 6,896.27                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 6,896.27                  |                         |
| For 2 Coils, Independent Circuits, Add   | 1,782.78                  |                         |
| 23 73 13 00-0055 EA 3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 16,297.72                 | 2,666.73                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,306.59                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 1,439.30                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 2,764.32                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 3,503.02                  |                         |
| For Manual Roll Filter, Add  | 7,249.51                  |                         |
| For Automatic Roll Filter, Add   | 7,249.51                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 1,629.77                  |                         |
| For Electric Heating Coil, Add   | 1,879.54                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 6,000.68                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 6,000.68                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 7,249.51                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 7,249.51                  |                         |
| For 2 Coils, Independent Circuits, Add   | 1,879.54                  |                         |
| 23 73 13 00-0056 EA 3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 17,189.40                 | 2,847.39                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,487.16                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 1,515.57                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 2,909.12                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 3,687.24                  |                         |
| For Manual Roll Filter, Add  | 7,623.85                  |                         |
| For Automatic Roll Filter, Add   | 7,623.85                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 1,718.94                  |                         |
| For Electric Heating Coil, Add   | 1,981.38                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 6,311.65                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 6,311.65                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 7,623.85                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 7,623.85                  |                         |
| For 2 Coils, Independent Circuits, Add   | 1,981.38                  |                         |
| 23 73 13 00-0057 EA 4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 19,155.02                 | 3,055.44                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,145.50                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 1,697.73                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 3,264.80                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 4,135.44                  |                         |
| For Manual Roll Filter, Add  | 8,575.31                  |                         |
| For Automatic Roll Filter, Add   | 8,575.31                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 1,915.50                  |                         |
| For Electric Heating Coil, Add   | 2,211.49                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 7,095.35                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 7,095.35                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 8,575.31                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 8,575.31                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,211.49                  |                         |
| 23 73 13 00-0058 EA 4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 20,928.15                 | 3,272.13                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,321.10                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 1,859.08                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 3,577.92                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 4,530.83                  |                         |
| For Manual Roll Filter, Add  | 9,406.86                  |                         |
| For Automatic Roll Filter, Add   | 9,406.86                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 2,092.82                  |                         |
| For Electric Heating Coil, Add   | 2,417.88                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 7,781.52                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 7,781.52                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 9,406.86                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 9,406.86                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,417.88                  |                         |
| 23 73 13 00-0059 EA 5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 22,129.37                 | 3,494.76                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,489.69                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 1,963.87                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 3,778.31                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 4,785.15                  |                         |
| For Manual Roll Filter, Add  | 9,929.59                  |                         |
| For Automatic Roll Filter, Add   | 9,929.59                  |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 2,212.94                  |                         |
| For Electric Heating Coil, Add   | 2,555.90                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 8,214.78                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 8,214.78                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 9,929.59                  |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 9,929.59                  |                         |
| For 2 Coils, Independent Circuits, Add   | 2,555.90                  |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 73 13 00-0060 EA 5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 24,385.65                 | 3,733.67                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,684.98                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 2,171.75                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 4,183.41                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 5,295.96                  |                         |
| For Manual Roll Filter, Add  | 11,010.76                 |                         |
| For Automatic Roll Filter, Add   | 11,010.76                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 2,438.57                  |                         |
| For Electric Heating Coil, Add   | 2,819.55                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 9,105.83                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 9,105.83                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 11,010.76                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 11,010.76                 |                         |
| For 2 Coils, Independent Circuits, Add   | 2,819.55                  |                         |
| 23 73 13 00-0061 EA 6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 25,950.04                 | 3,995.82                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,889.30                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 2,309.61                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 4,447.99                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 5,631.34                  |                         |
| For Manual Roll Filter, Add  | 11,704.01                 |                         |
| For Automatic Roll Filter, Add   | 11,704.01                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 2,595.00                  |                         |
| For Electric Heating Coil, Add   | 2,999.85                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 9,679.78                  |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 9,679.78                  |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 11,704.01                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 11,704.01                 |                         |
| For 2 Coils, Independent Circuits, Add   | 2,999.85                  |                         |
| 23 73 13 00-0062 EA 6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 28,448.99                 | 4,339.07                |
| For Economizer, Panel, Controls And Damper(s), Add   | 4,156.55                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 2,535.21                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 4,884.61                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 6,183.19                  |                         |
| For Manual Roll Filter, Add  | 12,859.77                 |                         |
| For Automatic Roll Filter, Add   | 12,859.77                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 2,844.90                  |                         |
| For Electric Heating Coil, Add   | 3,290.00                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 10,634.24                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 10,634.24                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 12,859.77                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 12,859.77                 |                         |
| For 2 Coils, Independent Circuits, Add   | 3,290.00                  |                         |
| 23 73 13 00-0063 EA 7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 30,569.38                 | 4,673.67                |
| For Economizer, Panel, Controls And Damper(s), Add   | 4,420.62                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 2,723.25                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 5,246.27                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 6,641.27                  |                         |
| For Manual Roll Filter, Add  | 13,809.92                 |                         |
| For Automatic Roll Filter, Add   | 13,809.92                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 3,056.94                  |                         |
| For Electric Heating Coil, Add   | 3,534.85                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 11,420.37                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 11,420.37                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 13,809.92                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 13,809.92                 |                         |
| For 2 Coils, Independent Circuits, Add   | 3,534.85                  |                         |
| 23 73 13 00-0064 EA 7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 32,106.46                 | 5,053.21                |
| For Economizer, Panel, Controls And Damper(s), Add   | 3,821.77                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 2,850.43                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 5,484.72                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 6,945.95                  |                         |
| For Manual Roll Filter, Add  | 14,416.56                 |                         |
| For Automatic Roll Filter, Add   | 14,416.56                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 3,210.65                  |                         |
| For Electric Heating Coil, Add   | 3,708.69                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 11,926.36                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 11,926.36                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 14,416.56                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 14,416.56                 |                         |
| For 2 Coils, Independent Circuits, Add   | 3,708.69                  |                         |
| 23 73 13 00-0065 EA 8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 35,600.96                 | 5,450.71                |
| For Economizer, Panel, Controls And Damper(s), Add   | 4,056.48                  |                         |
| For Flat Filter Box And Throwaway Filters, Add   | 3,170.54                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add  | 6,107.34                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add   | 7,731.56                  |                         |
| For Manual Roll Filter, Add  | 16,074.49                 |                         |
| For Automatic Roll Filter, Add   | 16,074.49                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add   | 3,560.10                  |                         |
| For Electric Heating Coil, Add   | 4,116.29                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add   | 13,293.51                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add  | 13,293.51                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add   | 16,074.49                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add  | 16,074.49                 |                         |
| For 2 Coils, Independent Circuits, Add   | 4,116.29                  |                         |



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| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Central HVAC Equipment</b>                            | <b>23 70</b> |
| <b>Indoor Central-Station Air-Handling Units</b>         | <b>23 73</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0066 EA 8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....  | 37,513.81                 | 5,875.57                |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,299.72                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 3,331.42                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 6,410.85                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 8,118.56                  |                         |
| For Manual Roll Filter, Add   | 16,852.91                 |                         |
| For Automatic Roll Filter, Add  | 16,852.91                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 3,751.38                  |                         |
| For Electric Heating Coil, Add  | 4,333.67                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 13,941.46                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 13,941.46                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 16,852.91                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 16,852.91                 |                         |
| For 2 Coils, Independent Circuits, Add  | 4,333.67                  |                         |
| 23 73 13 00-0067 EA 9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....  | 39,630.77                 | 6,363.98                |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,564.96                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 3,509.96                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 6,748.04                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 8,548.33                  |                         |
| For Manual Roll Filter, Add   | 17,718.84                 |                         |
| For Automatic Roll Filter, Add  | 17,718.84                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 3,963.08                  |                         |
| For Electric Heating Coil, Add  | 4,574.44                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 14,662.01                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 14,662.01                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 17,718.84                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 17,718.84                 |                         |
| For 2 Coils, Independent Circuits, Add  | 4,574.44                  |                         |
| 23 73 13 00-0068 EA 10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 41,917.26                 | 6,869.82                |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,126.14                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 3,700.70                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 7,106.79                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 9,006.24                  |                         |
| For Manual Roll Filter, Add   | 18,635.28                 |                         |
| For Automatic Roll Filter, Add  | 18,635.28                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 4,191.73                  |                         |
| For Electric Heating Coil, Add  | 4,833.66                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 15,425.60                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 15,425.60                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 18,635.28                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 18,635.28                 |                         |
| For 2 Coils, Independent Circuits, Add  | 4,833.66                  |                         |
| 23 73 13 00-0069 EA 11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 43,111.39                 | 7,132.36                |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,243.93                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 3,800.48                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 7,294.57                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 9,245.88                  |                         |
| For Manual Roll Filter, Add   | 19,115.37                 |                         |
| For Automatic Roll Filter, Add  | 19,115.37                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 4,311.14                  |                         |
| For Electric Heating Coil, Add  | 4,969.10                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 15,825.54                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 15,825.54                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 19,115.37                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 19,115.37                 |                         |
| For 2 Coils, Independent Circuits, Add  | 4,969.10                  |                         |
| 23 73 13 00-0070 EA 12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 44,246.53                 | 7,386.89                |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,344.03                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 3,897.32                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 7,478.23                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 9,479.62                  |                         |
| For Manual Roll Filter, Add   | 19,589.55                 |                         |
| For Automatic Roll Filter, Add  | 19,589.55                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 4,424.65                  |                         |
| For Electric Heating Coil, Add  | 5,098.65                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 16,219.57                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 16,219.57                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 19,589.55                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 19,589.55                 |                         |
| For 2 Coils, Independent Circuits, Add  | 5,098.65                  |                         |
| 23 73 13 00-0071 EA 13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 49,924.94                 | 7,683.78                |
| For Economizer, Panel, Controls And Damper(s), Add  | 3,601.24                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 4,442.19                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 8,554.18                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 10,830.31                 |                         |
| For Manual Roll Filter, Add   | 22,505.94                 |                         |
| For Automatic Roll Filter, Add  | 22,505.94                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 4,992.49                  |                         |
| For Electric Heating Coil, Add  | 5,770.87                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 18,614.06                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 18,614.06                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 22,505.94                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 22,505.94                 |                         |
| For 2 Coils, Independent Circuits, Add  | 5,770.87                  |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0072 EA 15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 55,554.76                 | 7,988.16                |
| For Economizer, Panel, Controls And Damper(s), Add  | 3,732.98                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 4,984.63                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 9,626.74                  |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 12,176.14                 |                         |
| For Manual Roll Filter, Add   | 25,417.46                 |                         |
| For Automatic Roll Filter, Add  | 25,417.46                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 5,555.48                  |                         |
| For Electric Heating Coil, Add  | 6,438.23                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 21,003.69                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 21,003.69                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 25,417.46                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 25,417.46                 |                         |
| For 2 Coils, Independent Circuits, Add  | 6,438.23                  |                         |
| 23 73 13 00-0073 EA 16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 63,745.88                 | 8,289.44                |
| For Economizer, Panel, Controls And Damper(s), Add  | 3,806.22                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 5,782.81                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 11,210.55                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 14,161.14                 |                         |
| For Manual Roll Filter, Add   | 29,734.23                 |                         |
| For Automatic Roll Filter, Add  | 29,734.23                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 6,374.59                  |                         |
| For Electric Heating Coil, Add  | 7,412.79                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 24,543.20                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 24,543.20                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 29,734.23                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 29,734.23                 |                         |
| For 2 Coils, Independent Circuits, Add  | 7,412.79                  |                         |
| 23 73 13 00-0074 EA 17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 71,942.92                 | 8,587.75                |
| For Economizer, Panel, Controls And Damper(s), Add  | 3,880.51                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 6,581.29                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 12,794.78                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 16,146.72                 |                         |
| For Manual Roll Filter, Add   | 34,051.59                 |                         |
| For Automatic Roll Filter, Add  | 34,051.59                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 7,194.29                  |                         |
| For Electric Heating Coil, Add  | 8,387.95                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 28,083.30                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 28,083.30                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 34,051.59                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 34,051.59                 |                         |
| For 2 Coils, Independent Circuits, Add  | 8,387.95                  |                         |
| 23 73 13 00-0075 EA 20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 80,734.91                 | 9,310.93                |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,062.17                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 7,408.59                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 11,046.39                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 18,189.01                 |                         |
| For Manual Roll Filter, Add   | 28,304.53                 |                         |
| For Automatic Roll Filter, Add  | 35,048.22                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 8,073.49                  |                         |
| For Electric Heating Coil, Add  | 9,422.23                  |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 28,304.53                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 28,304.53                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 14,817.17                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 35,048.22                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 35,048.22                 |                         |
| For 2 Coils, Independent Circuits, Add  | 9,422.23                  |                         |
| 23 73 13 00-0076 EA 22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 87,077.37                 | 10,124.51               |
| For Economizer, Panel, Controls And Damper(s), Add  | 3,922.64                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 7,988.52                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 11,910.86                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 19,611.70                 |                         |
| For Manual Roll Filter, Add   | 30,515.66                 |                         |
| For Automatic Roll Filter, Add  | 37,784.97                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 8,707.74                  |                         |
| For Electric Heating Coil, Add  | 10,161.60                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 30,515.66                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 30,515.66                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 15,977.05                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 37,784.97                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 37,784.97                 |                         |
| For 2 Coils, Independent Circuits, Add  | 10,161.60                 |                         |
| 23 73 13 00-0077 EA 25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 103,748.08                | 10,937.69               |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,108.26                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 9,593.72                  |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 14,312.48                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 23,593.77                 |                         |
| For Manual Roll Filter, Add   | 36,812.72                 |                         |
| For Automatic Roll Filter, Add  | 45,625.36                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 10,374.81                 |                         |
| For Electric Heating Coil, Add  | 12,137.34                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 36,812.72                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 36,812.72                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 19,187.45                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 45,625.36                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 45,625.36                 |                         |
| For 2 Coils, Independent Circuits, Add  | 12,137.34                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0078 EA 27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 117,209.66                | 11,842.06               |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,298.98                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 10,876.31                 |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 16,229.99                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 26,768.43                 |                         |
| For Manual Roll Filter, Add   | 41,815.90                 |                         |
| For Automatic Roll Filter, Add  | 51,847.55                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 11,720.97                 |                         |
| For Electric Heating Coil, Add  | 13,727.30                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 41,815.90                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 41,815.90                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 21,752.61                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 51,847.55                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 51,847.55                 |                         |
| For 2 Coils, Independent Circuits, Add  | 13,727.30                 |                         |
| 23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 127,033.10                | 12,746.42               |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,497.57                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 11,792.45                 |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 17,597.59                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 29,025.70                 |                         |
| For Manual Roll Filter, Add   | 45,348.10                 |                         |
| For Automatic Roll Filter, Add  | 56,229.69                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 12,703.31                 |                         |
| For Electric Heating Coil, Add  | 14,879.63                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 45,348.10                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 45,348.10                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 23,584.91                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 56,229.69                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 56,229.69                 |                         |
| For 2 Coils, Independent Circuits, Add  | 14,879.63                 |                         |
| 23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 142,069.01                | 14,915.19               |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,490.83                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 13,142.57                 |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 19,607.42                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 32,324.25                 |                         |
| For Manual Roll Filter, Add   | 50,441.61                 |                         |
| For Automatic Roll Filter, Add  | 62,519.84                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 14,206.90                 |                         |
| For Electric Heating Coil, Add  | 16,622.55                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 50,441.61                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 50,441.61                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 26,285.14                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 62,519.84                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 62,519.84                 |                         |
| For 2 Coils, Independent Circuits, Add  | 16,622.55                 |                         |
| 23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 142,865.14                | 15,457.95               |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,590.35                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 13,182.37                 |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 19,663.15                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 32,403.87                 |                         |
| For Manual Roll Filter, Add   | 50,521.22                 |                         |
| For Automatic Roll Filter, Add  | 62,599.45                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 14,286.51                 |                         |
| For Electric Heating Coil, Add  | 16,702.16                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 50,521.22                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 50,521.22                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 26,364.75                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 62,599.45                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 62,599.45                 |                         |
| For 2 Coils, Independent Circuits, Add  | 16,702.16                 |                         |
| 23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 149,402.18                | 15,999.82               |
| For Economizer, Panel, Controls And Damper(s), Add  | 4,689.87                  |                         |
| For Flat Filter Box And Throwaway Filters, Add  | 13,796.27                 |                         |
| For Medium Capacity Filter Box And Throwaway Filters, Add   | 20,580.01                 |                         |
| For Combination Filter Mixing Box And Throwaway Filters, Add  | 33,918.70                 |                         |
| For Manual Roll Filter, Add   | 52,897.19                 |                         |
| For Automatic Roll Filter, Add  | 65,549.51                 |                         |
| For Hot Water Heating Coil, Aluminum Fins, Add  | 14,940.22                 |                         |
| For Electric Heating Coil, Add  | 17,470.68                 |                         |
| For Chilled Water Cooling Coil, Aluminum Fins, Add  | 52,897.19                 |                         |
| For Direct Expansion Cooling Coil, Aluminum Fins, Add   | 52,897.19                 |                         |
| For Steam Heating Coil, Aluminum Fins, Add  | 27,592.54                 |                         |
| For Chilled Water Cooling Coil, Copper Fins, Add  | 65,549.51                 |                         |
| For Direct Expansion Cooling Coil, Copper Fins, Add   | 65,549.51                 |                         |
| For 2 Coils, Independent Circuits, Add  | 17,470.68                 |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 23 73 13 00-0083 | EA  |     | 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 156,374.11             | 17,175.51            |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>                                       | 4,895.01               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 14,411.41              |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>                                | 21,494.51              |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                             | 35,415.52              |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 55,193.63              |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 68,379.04              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 15,637.41              |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 18,274.49              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>                                       | 55,193.63              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>                                    | 55,193.63              |                      |
|                  |     |     | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 28,822.82              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 68,379.04              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>                                      | 68,379.04              |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 18,274.49              |                      |
| 23 73 13 00-0084 | EA  |     | 45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 168,452.94             | 18,079.48            |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>                                       | 5,044.19               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 15,559.62              |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>                                | 23,210.86              |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                             | 38,256.20              |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 59,667.11              |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 73,941.05              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 16,845.29              |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 19,700.08              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>                                       | 59,667.11              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>                                    | 59,667.11              |                      |
|                  |     |     | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 31,119.23              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 73,941.05              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>                                      | 73,941.05              |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 19,700.08              |                      |
| 23 73 13 00-0085 | EA  |     | 50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 181,056.80             | 19,073.86            |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>                                       | 4,628.30               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 16,741.53              |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>                                | 24,975.88              |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                             | 41,171.75              |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 64,237.83              |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 79,615.21              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 18,105.68              |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 21,181.16              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>                                       | 64,237.83              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>                                    | 64,237.83              |                      |
|                  |     |     | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 33,483.06              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 79,615.21              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>                                      | 79,615.21              |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 21,181.16              |                      |
| 23 73 13 00-0086 | EA  |     | 55,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 194,987.52             | 20,249.02            |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>                                       | 4,791.18               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 18,053.16              |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>                                | 26,935.18              |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                             | 44,410.11              |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 69,321.47              |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 85,929.04              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 19,498.75              |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 22,820.27              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>                                       | 69,321.47              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>                                    | 69,321.47              |                      |
|                  |     |     | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 36,106.33              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 85,929.04              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>                                      | 85,929.04              |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 22,820.27              |                      |
| 23 73 13 00-0087 | EA  |     | 60,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan ..... | 209,033.47             | 20,791.40            |
|                  |     |     | <i>For Economizer, Panel, Controls And Damper(s), Add</i>                                       | 4,864.93               |                      |
|                  |     |     | <i>For Flat Filter Box And Throwaway Filters, Add</i>   | 19,420.88              |                      |
|                  |     |     | <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>                                | 28,983.08              |                      |
|                  |     |     | <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>                             | 47,810.97              |                      |
|                  |     |     | <i>For Manual Roll Filter, Add</i>  | 74,718.60              |                      |
|                  |     |     | <i>For Automatic Roll Filter, Add</i>   | 92,657.01              |                      |
|                  |     |     | <i>For Hot Water Heating Coil, Aluminum Fins, Add</i>   | 20,903.35              |                      |
|                  |     |     | <i>For Electric Heating Coil, Add</i>   | 24,491.03              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>                                       | 74,718.60              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>                                    | 74,718.60              |                      |
|                  |     |     | <i>For Steam Heating Coil, Aluminum Fins, Add</i>   | 38,841.76              |                      |
|                  |     |     | <i>For Chilled Water Cooling Coil, Copper Fins, Add</i>   | 92,657.01              |                      |
|                  |     |     | <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>                                      | 92,657.01              |                      |
|                  |     |     | <i>For 2 Coils, Independent Circuits, Add</i>   | 24,491.03              |                      |
| 23 73 13 00-0088 | EA  |     | <b>Return/Supply Air Fan</b> <small>(23 73 13)</small>  |                        |                      |
|                  |     |     | Note: Includes vibration mounts.  |                        |                      |
| 23 73 13 00-0089 | EA  |     | 300 CFM Return Air Fan.....   | 3,513.19               | 723.05               |
| 23 73 13 00-0090 | EA  |     | 500 CFM Return Air Fan.....   | 4,544.12               | 867.68               |
| 23 73 13 00-0091 | EA  |     | 750 CFM Return Air Fan.....   | 4,746.07               | 903.84               |
| 23 73 13 00-0092 | EA  |     | 1,000 CFM Return Air Fan.....   | 5,405.25               | 958.08               |
| 23 73 13 00-0093 | EA  |     | 1,250 CFM Return Air Fan.....   | 5,572.44               | 1,003.28             |
| 23 73 13 00-0094 | EA  |     | 1,500 CFM Return Air Fan.....   | 5,705.27               | 1,048.48             |
| 23 73 13 00-0095 | EA  |     | 1,750 CFM Return Air Fan.....   | 5,988.17               | 1,102.72             |
| 23 73 13 00-0096 | EA  |     | 2,000 CFM Return Air Fan.....   | 6,647.33               | 1,156.95             |



| MINOR<br>CSI UOM DESCRIPTION                        | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 73 13 00-0097 EA 2,250 CFM Return Air Fan.....   | 6,964.31                  | 1,211.19                |
| 23 73 13 00-0098 EA 2,500 CFM Return Air Fan.....   | 7,144.47                  | 1,265.44                |
| 23 73 13 00-0099 EA 3,000 CFM Return Air Fan.....   | 7,577.26                  | 1,401.03                |
| 23 73 13 00-0100 EA 3,500 CFM Return Air Fan.....   | 7,783.47                  | 1,473.35                |
| 23 73 13 00-0101 EA 4,000 CFM Return Air Fan.....   | 7,976.44                  | 1,536.62                |
| 23 73 13 00-0102 EA 4,500 CFM Return Air Fan.....   | 8,216.84                  | 1,609.08                |
| 23 73 13 00-0103 EA 5,000 CFM Return Air Fan.....   | 8,435.54                  | 1,690.43                |
| 23 73 13 00-0104 EA 5,500 CFM Return Air Fan.....   | 8,856.25                  | 1,889.30                |
| 23 73 13 00-0105 EA 6,000 CFM Return Air Fan.....   | 10,078.24                 | 2,241.86                |
| 23 73 13 00-0106 EA 6,500 CFM Return Air Fan.....   | 10,335.95                 | 2,278.01                |
| 23 73 13 00-0107 EA 7,000 CFM Return Air Fan.....   | 10,450.93                 | 2,287.06                |
| 23 73 13 00-0108 EA 8,000 CFM Return Air Fan.....   | 10,982.33                 | 2,323.21                |
| 23 73 13 00-0109 EA 9,000 CFM Return Air Fan.....   | 11,222.08                 | 2,350.33                |
| 23 73 13 00-0110 EA 10,000 CFM Return Air Fan.....  | 11,800.40                 | 2,441.11                |
| 23 73 13 00-0111 EA 12,500 CFM Return Air Fan.....  | 12,546.89                 | 2,485.80                |
| 23 73 13 00-0112 EA 15,000 CFM Return Air Fan.....  | 14,120.77                 | 2,556.44                |
| 23 73 13 00-0113 EA 17,500 CFM Return Air Fan.....  | 15,377.20                 | 2,693.71                |
| 23 73 13 00-0114 EA 20,000 CFM Return Air Fan.....  | 18,213.04                 | 2,810.97                |
| 23 73 13 00-0115 EA 22,500 CFM Return Air Fan.....  | 19,080.41                 | 2,908.99                |
| 23 73 13 00-0116 EA 25,000 CFM Return Air Fan.....  | 19,936.28                 | 2,992.15                |
| 23 73 13 00-0117 EA 27,500 CFM Return Air Fan.....  | 21,154.23                 | 3,290.47                |
| 23 73 13 00-0118 EA 30,000 CFM Return Air Fan.....  | 22,608.61                 | 3,471.00                |
| 23 73 13 00-0119 EA 35,000 CFM Return Air Fan.....  | 25,450.84                 | 3,615.51                |
| 23 73 13 00-0120 EA 40,000 CFM Return Air Fan.....  | 29,936.07                 | 3,977.09                |
| 23 73 13 00-0121 EA 45,000 CFM Return Air Fan.....  | 36,765.14                 | 4,519.49                |
| 23 73 13 00-0122 EA 50,000 CFM Return Air Fan.....  | 44,593.47                 | 4,682.59                |
| 23 73 13 00-0123 EA 55,000 CFM Return Air Fan.....  | 46,662.01                 | 4,817.79                |
| 23 73 13 00-0124 EA 60,000 CFM Return Air Fan.....  | 47,739.59                 | 4,944.35                |
| 23 73 13 00-0125 EA 65,000 CFM Return Air Fan.....  | 50,060.28                 | 5,161.17                |
| 23 73 13 00-0126 EA 70,000 CFM Return Air Fan.....  | 52,579.41                 | 5,415.32                |
| 23 73 13 00-0127 EA 75,000 CFM Return Air Fan.....  | 56,526.10                 | 5,680.96                |
| 23 73 13 00-0128 EA 80,000 CFM Return Air Fan.....  | 59,043.08                 | 5,982.11                |
| 23 73 13 00-0129 EA 90,000 CFM Return Air Fan.....  | 60,992.47                 | 6,322.78                |
| 23 73 13 00-0130 EA 100,000 CFM Return Air Fan..... | 65,544.36                 | 6,612.18                |
| 23 73 13 00-0131 EA 115,000 CFM Return Air Fan..... | 70,477.86                 | 6,928.45                |
| 23 73 13 00-0132 EA 130,000 CFM Return Air Fan..... | 75,833.15                 | 7,277.51                |
| 23 73 13 00-0133 EA 150,000 CFM Return Air Fan..... | 82,917.37                 | 7,665.19                |

**23 73 13 00-0134 Removal And Reinstallation Of Air Handling Unit** (23 73 13)  
 Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

|  |           |
|--|-----------|
| 23 73 13 00-0135 EA Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit.....      | 3,311.26  |
| 23 73 13 00-0136 EA Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit..... | 4,491.80  |
| 23 73 13 00-0137 EA Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit..... | 5,587.74  |
| 23 73 13 00-0138 EA Removal And Reinstallation Of >22,000 CFM Air Handling Unit.....           | 10,195.20 |

**23 74 Packaged Outdoor HVAC Equipment** (23 70)

**23 74 16 Packaged Rooftop Air-Conditioning Units** (23 74)

**23 74 16 13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units** (23 74 16)

**23 74 16 13-0001 Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Air-Conditioning Units** (23 74 16 13)

Note: Electric heating capacity is approximately 1/2 the cooling capacity. Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment, 26 28 16 16-0001 for disconnects.

|   |           |          |
|---|-----------|----------|
| 23 74 16 13-0002 EA 2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....   | 5,825.12  | 2,354.28 |
| For Unit Without Heat, Deduct   | -448.21   |          |
| For Unit Without Factory Installed Economizer, Deduct   | -1,095.87 |          |
| For Unit Without Roof Curb, Deduct  | -822.05   |          |
| 23 74 16 13-0003 EA 3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....   | 7,310.29  | 2,461.29 |
| For Unit Without Heat, Deduct   | -529.60   |          |
| For Unit Without Factory Installed Economizer, Deduct   | -1,095.87 |          |
| For Unit Without Roof Curb, Deduct  | -822.05   |          |
| 23 74 16 13-0004 EA 4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....   | 8,412.05  | 2,568.30 |
| For Unit Without Heat, Deduct   | -591.82   |          |
| For Unit Without Factory Installed Economizer, Deduct   | -1,095.87 |          |
| For Unit Without Roof Curb, Deduct  | -822.05   |          |
| 23 74 16 13-0005 EA 5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....   | 9,873.00  | 2,728.83 |
| For Unit Without Heat, Deduct   | -675.57   |          |
| For Unit Without Factory Installed Economizer, Deduct   | -1,095.87 |          |
| For Unit Without Roof Curb, Deduct  | -822.05   |          |
| 23 74 16 13-0006 EA 6 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....   | 10,718.71 | 2,889.34 |
| For Unit Without Heat, Deduct   | -728.56   |          |
| For Unit Without Factory Installed Economizer, Deduct   | -1,095.87 |          |
| For Unit Without Roof Curb, Deduct  | -822.05   |          |
| 23 74 16 13-0007 EA 7.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit..... | 11,951.61 | 3,103.37 |
| For Unit Without Heat, Deduct   | -804.47   |          |
| For Unit Without Factory Installed Economizer, Deduct   | -1,118.50 |          |
| For Unit Without Roof Curb, Deduct  | -986.48   |          |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 74 Packaged Outdoor HVAC Equipment**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 74 16 13-0008 EA 8.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....   | 12,797.34                 | 3,263.88                |
| <i>For Unit Without Heat, Deduct</i>   | -857.46                   |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -1,118.50                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0009 EA 10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 14,030.25                 | 3,477.91                |
| <i>For Unit Without Heat, Deduct</i>   | -933.37                   |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -1,143.85                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0010 EA 12.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 16,794.24                 | 3,758.28                |
| <i>For Unit Without Heat, Deduct</i>   | -1,090.30                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -1,235.34                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0011 EA 15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 19,558.24                 | 4,039.73                |
| <i>For Unit Without Heat, Deduct</i>   | -1,247.23                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0012 EA 17.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 22,239.85                 | 4,320.46                |
| <i>For Unit Without Heat, Deduct</i>   | -1,400.04                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0013 EA 20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 24,921.46                 | 4,601.55                |
| <i>For Unit Without Heat, Deduct</i>   | -1,552.84                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0014 EA 22.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 27,907.69                 | 5,069.55                |
| <i>For Unit Without Heat, Deduct</i>   | -1,733.37                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0015 EA 25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 30,893.92                 | 5,537.91                |
| <i>For Unit Without Heat, Deduct</i>   | -1,913.89                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -986.48                   |                         |
| 23 74 16 13-0016 EA 27.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 34,006.42                 | 6,059.78                |
| <i>For Unit Without Heat, Deduct</i>   | -2,104.29                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -1,480.86                 |                         |
| 23 74 16 13-0017 EA 30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 37,118.92                 | 6,581.28                |
| <i>For Unit Without Heat, Deduct</i>   | -2,294.70                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -1,480.86                 |                         |
| 23 74 16 13-0018 EA 35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 43,250.48                 | 7,678.16                |
| <i>For Unit Without Heat, Deduct</i>   | -2,674.40                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -1,480.86                 |                         |
| 23 74 16 13-0019 EA 40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 49,382.03                 | 8,775.04                |
| <i>For Unit Without Heat, Deduct</i>   | -3,054.10                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,194.25                 |                         |
| 23 74 16 13-0020 EA 45 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 54,395.73                 | 9,898.68                |
| <i>For Unit Without Heat, Deduct</i>   | -3,379.70                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,194.25                 |                         |
| 23 74 16 13-0021 EA 50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 59,409.43                 | 11,022.31               |
| <i>For Unit Without Heat, Deduct</i>   | -3,705.29                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,194.25                 |                         |
| 23 74 16 13-0022 EA 55 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 65,395.47                 | 12,092.44               |
| <i>For Unit Without Heat, Deduct</i>   | -4,075.94                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,707.26                 |                         |
| 23 74 16 13-0023 EA 60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 71,381.49                 | 13,162.57               |
| <i>For Unit Without Heat, Deduct</i>   | -4,446.58                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,707.26                 |                         |
| 23 74 16 13-0024 EA 65 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 77,202.73                 | 14,232.69               |
| <i>For Unit Without Heat, Deduct</i>   | -4,808.98                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,802.59                 |                         |
| 23 74 16 13-0025 EA 70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 83,023.96                 | 15,302.82               |
| <i>For Unit Without Heat, Deduct</i>   | -5,171.39                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -2,802.59                 |                         |
| 23 74 16 13-0026 EA 75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....  | 88,987.87                 | 16,479.97               |
| <i>For Unit Without Heat, Deduct</i>   | -5,548.06                 |                         |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -2,335.19                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -3,115.94                 |                         |
| <b>23 74 16 13-0027 Electric Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning Units</b> <small>(23 74 16 13)</small>  |                           |                         |
| Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment, 26 28 16 16-0001 for Disconnects. |                           |                         |
| 23 74 16 13-0028 EA 2 Ton Electric Cooling, 50 MBH Gas Heating, Self Contained Package Rooftop Unit .....  | 5,660.97                  | 2,140.26                |
| <i>For Unit Without Factory Installed Economizer, Deduct</i>   | -1,095.87                 |                         |
| <i>For Unit Without Roof Curb, Deduct</i>  | -822.05                   |                         |



|  |           |
|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b> |
| Central HVAC Equipment                                   | 23 70     |
| Packaged Outdoor HVAC Equipment                          | 23 74     |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST            | DEMOLITION<br>UNIT COST |
|---|--------------------------------------|-------------------------|
| 23 74 16 13-0029 EA 3 Ton Electric Cooling, 60 To 80 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>     | 6,461.86<br>-1,095.87<br>-822.05     | 2,461.29                |
| 23 74 16 13-0030 EA 4 Ton Electric Cooling, 80 To 110 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>    | 7,893.37<br>-1,095.87<br>-822.05     | 2,835.84                |
| 23 74 16 13-0031 EA 5 Ton Electric Cooling, 100 To 120 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 8,973.76<br>-1,095.87<br>-822.05     | 3,049.87                |
| 23 74 16 13-0032 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>          | 10,007.60<br>-1,095.87<br>-822.05    | 3,290.64                |
| 23 74 16 13-0033 EA 7.5 Ton Electric Cooling, 150 To 180 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i> | 10,879.59<br>-1,118.50<br>-986.48    | 3,451.17                |
| 23 74 16 13-0034 EA 8.5 Ton Electric Cooling, 170 To 190 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i> | 12,853.78<br>-1,118.50<br>-986.48    | 2,862.59                |
| 23 74 16 13-0035 EA 10 Ton Electric Cooling, 200 To 240 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 15,746.21<br>-1,143.85<br>-986.48    | 3,852.46                |
| 23 74 16 13-0036 EA 12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 17,188.62<br>-1,235.34<br>-986.48    | 4,173.49                |
| 23 74 16 13-0037 EA 15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 20,577.49<br>-2,335.19<br>-986.48    | 4,494.53                |
| 23 74 16 13-0038 EA 17.5 Ton Electric Cooling, 330 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 21,773.17<br>-2,335.19<br>-986.48    | 4,815.57                |
| 23 74 16 13-0039 EA 20 Ton Electric Cooling, 350 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 32,509.26<br>-2,335.19<br>-986.48    | 5,136.61                |
| 23 74 16 13-0040 EA 22.5 Ton Electric Cooling, 380 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 39,473.29<br>-2,335.19<br>-986.48    | 5,671.67                |
| 23 74 16 13-0041 EA 25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 46,437.33<br>-2,335.19<br>-986.48    | 6,135.40                |
| 23 74 16 13-0042 EA 27.5 Ton Electric Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 47,973.20<br>-2,335.19<br>-1,480.86  | 6,741.81                |
| 23 74 16 13-0043 EA 30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 51,499.40<br>-2,335.19<br>-1,480.86  | 7,276.86                |
| 23 74 16 13-0044 EA 35 Ton Electric Cooling, 550 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 55,591.16<br>-2,335.19<br>-1,480.86  | 8,507.51                |
| 23 74 16 13-0045 EA 40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 61,673.25<br>-2,335.19<br>-2,194.25  | 9,738.16                |
| 23 74 16 13-0046 EA 45 Ton Electric Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 66,658.75<br>-2,335.19<br>-2,194.25  | 10,968.80               |
| 23 74 16 13-0047 EA 50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 71,644.23<br>-2,335.19<br>-2,194.25  | 12,199.45               |
| 23 74 16 13-0048 EA 55 Ton Electric Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 78,493.94<br>-2,335.19<br>-2,707.26  | 13,430.10               |
| 23 74 16 13-0049 EA 60 Ton Electric Cooling, 850 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 85,343.65<br>-2,335.19<br>-2,707.26  | 14,660.75               |
| 23 74 16 13-0050 EA 65 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 91,235.86<br>-2,335.19<br>-2,802.59  | 15,276.06               |
| 23 74 16 13-0051 EA 70 Ton Electric Cooling, 950 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>         | 97,092.40<br>-2,335.19<br>-2,802.59  | 15,864.64               |
| 23 74 16 13-0052 EA 75 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 102,984.59<br>-2,335.19<br>-3,115.94 | 16,479.97               |
| 23 74 16 13-0053 EA 80 Ton Electric Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 108,912.48<br>-2,335.19<br>-3,115.94 | 17,122.04               |
| 23 74 16 13-0054 EA 90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>       | 146,902.23<br>-2,335.19<br>-3,115.94 | 20,118.39               |
| 23 74 16 13-0055 EA 100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit.....<br><i>For Unit Without Factory Installed Economizer, Deduct</i><br><i>For Unit Without Roof Curb, Deduct</i>      | 169,749.55<br>-2,335.19<br>-3,115.94 | 24,505.91               |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| 23 74 16 13-0056 | AAON Rooftop Units <small>(23 74 16 13)</small>  |           |          |
|------------------|--|-----------|----------|
|                  | Note: Units < 5 tons have 14 SEER minimum, units 5 to < 20 tons have 11 EER minimum, and units 20 tons and over have 10 EER minimum, Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment, 07 72 13 00-0000 for roof curbs, 23 09 23 00-0000 for controls, 26 28 16 16-0001 for disconnects.  |           |          |
| 23 74 16 13-0057 | AAON RQ Rooftop Units <small>(23 74 16 13-0056)</small>  |           |          |
|                  | Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment. |           |          |
| 23 74 16 13-0058 | EA 2 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-002) .....  | 14,966.69 | 2,140.26 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,533.79  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 1,664.07  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,310.11  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,499.38  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,644.38  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,784.51  |          |
| 23 74 16 13-0059 | EA 3 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-003) .....  | 16,353.36 | 2,461.29 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,644.40  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 1,784.51  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,403.52  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,607.53  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,644.38  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,784.51  |          |
| 23 74 16 13-0060 | EA 4 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-004) .....  | 17,071.53 | 2,835.84 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,644.40  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 1,784.51  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,403.52  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,607.53  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,644.38  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,784.51  |          |
| 23 74 16 13-0061 | EA 5 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-005) .....  | 17,551.07 | 3,049.87 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,644.40  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 1,784.51  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,403.52  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,607.53  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,644.38  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,784.51  |          |
| 23 74 16 13-0062 | EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-006) .....  | 19,187.14 | 3,718.77 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,644.40  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 1,784.51  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,403.52  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,607.53  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,644.38  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,784.51  |          |
| 23 74 16 13-0063 | AAON RNA Rooftop Units <small>(23 74 16 13-0056)</small>   |           |          |
|                  | Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.   |           |          |
| 23 74 16 13-0064 | EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-006) .....   | 23,024.08 | 3,290.71 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,600.16  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,458.00  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,639.49  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,514.13  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 4,082.74  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,391.23  |          |
| 23 74 16 13-0065 | EA 7 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-007) .....   | 24,562.97 | 3,451.24 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,600.16  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,458.00  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,639.49  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,514.13  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 4,082.74  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,391.23  |          |
| 23 74 16 13-0066 | EA 8 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-008) .....   | 28,134.74 | 3,718.77 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,600.16  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,458.00  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,639.49  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,514.13  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 4,082.74  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,391.23  |          |
| 23 74 16 13-0067 | EA 10 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-010) .....  | 28,443.37 | 3,852.46 |
|                  | <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i>  | 1,600.16  |          |
|                  | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,458.00  |          |
|                  | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,639.49  |          |
|                  | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,514.13  |          |
|                  | <i>For Factory Installed Exhaust Fan, Add</i>  | 4,082.74  |          |
|                  | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,391.23  |          |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 23 74 16 13-0068 |       |     |     | <b>AAON RNB Rooftop Units</b> <small>(23 74 16 13-0056)</small><br>Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment.  |                        |                      |
| 23 74 16 13-0069 | EA    |     |     | 9 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-009).....   | 33,543.72              | 3,852.46             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,357.22               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,843.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 3,893.47               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,398.60               |                      |
| 23 74 16 13-0070 | EA    |     |     | 11 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-011).....  | 33,762.36              | 3,745.45             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,357.22               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,843.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 3,893.47               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,398.60               |                      |
| 23 74 16 13-0071 | EA    |     |     | 13 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-013).....  | 36,835.34              | 4,173.49             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,357.22               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,843.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 3,893.47               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,398.60               |                      |
| 23 74 16 13-0072 | EA    |     |     | 15 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-015).....  | 37,833.64              | 4,494.53             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 2,357.22               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 1,843.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 3,893.47               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 1,398.60               |                      |
| 23 74 16 13-0073 |       |     |     | <b>AAON RNC Rooftop Units</b> <small>(23 74 16 13-0056)</small><br>Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.  |                        |                      |
| 23 74 16 13-0074 | EA    |     |     | 16 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-016).....  | 48,383.38              | 4,494.53             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 3,480.53               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 2,458.00               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,140.49               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 636.62                 |                      |
| 23 74 16 13-0075 | EA    |     |     | 18 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-018).....  | 52,257.55              | 4,815.57             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 3,480.53               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 2,458.00               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,140.49               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 636.62                 |                      |
| 23 74 16 13-0076 | EA    |     |     | 20 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-020).....  | 55,382.03              | 5,136.61             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 3,480.53               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 2,458.00               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,140.49               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 636.62                 |                      |
| 23 74 16 13-0077 | EA    |     |     | 25 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-025).....  | 60,095.21              | 6,206.74             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 3,480.53               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 2,458.00               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,140.49               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 636.62                 |                      |
| 23 74 16 13-0078 | EA    |     |     | 30 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-030).....  | 68,220.10              | 7,276.86             |
|                  |       |     |     | <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i>  | 3,480.53               |                      |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 2,458.00               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 1,462.51               |                      |
|                  |       |     |     | <i>For Factory Installed Exhaust Fan, Add</i>  | 7,140.49               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 636.62                 |                      |
| 23 74 16 13-0079 |       |     |     | <b>AAON RND Rooftop Units</b> <small>(23 74 16 13-0056)</small><br>Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel. |                        |                      |
| 23 74 16 13-0080 | EA    |     |     | 26 Ton, Air Cooled Packaged Rooftop Units (AAON RND-026).....  | 90,394.97              | 6,206.74             |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 3,072.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 3,328.13               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 4,670.20               |                      |
| 23 74 16 13-0081 | EA    |     |     | 31 Ton, Air Cooled Packaged Rooftop Units (AAON RND-031).....  | 103,057.33             | 7,276.86             |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 3,072.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 3,328.13               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 4,670.20               |                      |
| 23 74 16 13-0082 | EA    |     |     | 40 Ton, Air Cooled Packaged Rooftop Units (AAON RND-040).....  | 121,748.25             | 9,738.16             |
|                  |       |     |     | <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>  | 3,072.50               |                      |
|                  |       |     |     | <i>For Factory Installed Non-Fused Disconnect, Add</i>   | 3,328.13               |                      |
|                  |       |     |     | <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 4,670.20               |                      |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 74 Packaged Outdoor HVAC Equipment**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                      | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 74 16 13-0083 EA 50 Ton, Air Cooled Packaged Rooftop Units (AAON RND-050).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 142,997.95<br>3,072.50<br>3,328.13<br>4,670.20 | 12,199.45               |
| 23 74 16 13-0084 EA 60 Ton, Air Cooled Packaged Rooftop Units (AAON RND-060).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 157,426.70<br>3,072.50<br>3,328.13<br>4,670.20 | 14,660.75               |
| 23 74 16 13-0085 EA 70 Ton, Air Cooled Packaged Rooftop Units (AAON RND-070).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 165,784.03<br>3,072.50<br>3,328.13<br>4,670.20 | 15,864.71               |
| <b>23 74 16 13-0086</b> <b>AAON RNE Rooftop Units</b> <small>(23 74 16 13-0056)</small><br>Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel. |  |                         |
| 23 74 16 13-0087 EA 55 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-055).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 152,747.75<br>3,470.70<br>4,984.82<br>6,636.60 | 13,430.10               |
| 23 74 16 13-0088 EA 65 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-065).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 168,396.21<br>3,470.70<br>4,984.82<br>6,636.60 | 15,276.13               |
| 23 74 16 13-0089 EA 75 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-075).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 179,118.13<br>3,470.70<br>4,984.82<br>6,636.60 | 16,479.97               |
| 23 74 16 13-0090 EA 95 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-090).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>  | 217,457.16<br>3,470.70<br>4,984.82<br>6,636.60 | 22,312.15               |
| 23 74 16 13-0091 EA 105 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-105).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 235,915.37<br>3,470.70<br>4,984.82<br>6,636.60 | 25,469.03               |
| 23 74 16 13-0092 EA 120 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-120).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 274,621.88<br>3,470.70<br>4,984.82<br>6,636.60 | 28,037.33               |
| 23 74 16 13-0093 EA 130 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-130).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 281,641.39<br>3,470.70<br>4,984.82<br>6,636.60 | 29,749.53               |
| 23 74 16 13-0094 EA 140 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-140).....<br><i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i><br><i>For Factory Installed Non-Fused Disconnect, Add</i><br><i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>   | 295,786.20<br>3,470.70<br>4,984.82<br>6,636.60 | 33,280.97               |
| <b>23 74 16 13-0095</b> <b>Heat Pump, Packaged Rooftop Heat Pump Units</b> <small>(23 74 16 13)</small><br>See CSI section 01 22 23 00-0866 for crane lifting equipment, 26 28 16 16-0001 for disconnects.  |  |                         |
| <b>23 74 16 13-0096</b> <b>Packaged Rooftop Heat Pump Units</b> <small>(23 74 16 13-0095)</small><br>Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.  |  |                         |
| 23 74 16 13-0097 EA 2 Ton Packaged Rooftop Heat Pump.....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 7,016.25<br>2,218.22<br>222.40<br>-822.05      | 1,926.23                |
| 23 74 16 13-0098 EA 2.5 Ton Packaged Rooftop Heat Pump.....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 7,404.39<br>2,355.59<br>232.17<br>-822.05      | 2,070.77                |
| 23 74 16 13-0099 EA 3 Ton Packaged Rooftop Heat Pump.....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 7,841.41<br>2,503.23<br>244.39<br>-822.05      | 2,215.16                |
| 23 74 16 13-0100 EA 3.5 Ton Packaged Rooftop Heat Pump.....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 8,417.25<br>2,479.76<br>261.95<br>-822.05      | 2,383.68                |
| 23 74 16 13-0101 EA 4 Ton Packaged Rooftop Heat Pump.....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 8,993.33<br>2,651.86<br>279.52<br>-822.05      | 2,552.32                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                  | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 23 74 16 13-0102 EA 5 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 9,642.79<br>2,847.02<br>239.32<br>-822.05  | 2,744.95                |
| 23 74 16 13-0103 EA 6 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 10,798.51<br>3,138.84<br>205.49<br>-822.05 | 2,961.54                |
| 23 74 16 13-0104 EA 7.5 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 13,607.49<br>3,206.63<br>283.98<br>-986.48 | 3,106.08                |
| 23 74 16 13-0105 EA 8.5 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 15,169.76<br>3,409.02<br>321.22<br>-986.48 | 3,346.79                |
| 23 74 16 13-0106 EA 10 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 16,258.32<br>3,475.01<br>232.71<br>-986.48 | 3,467.21                |
| 23 74 16 13-0107 EA 12.5 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 18,755.30<br>3,878.81<br>274.94<br>-986.48 | 3,756.15                |
| 23 74 16 13-0108 EA 15 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 21,252.26<br>4,282.60<br>317.18<br>-986.48 | 4,045.08                |
| 23 74 16 13-0109 EA 17.5 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 23,724.19<br>4,683.89<br>358.91<br>-986.48 | 4,334.02                |
| 23 74 16 13-0110 EA 20 Ton Packaged Rooftop Heat Pump .....<br><i>For Economizer With Outside Air Control, Add</i><br><i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 26,196.13<br>5,085.19<br>400.64<br>-986.48 | 4,622.95                |
| <b>23 74 16 13-0111 Heating Only Packaged Rooftop Units</b> <small>(23 74 16 13-0095)</small><br>Note: Includes throwaway filters, filter rack, manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment, 26 28 16 16-0001 for disconnects. |  |                         |
| 23 74 16 13-0112 EA 24 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 7,337.79<br>462.28<br>-822.05              | 1,926.23                |
| 23 74 16 13-0113 EA 32 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 8,604.67<br>543.26<br>-822.05              | 2,215.16                |
| 23 74 16 13-0114 EA 45 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 11,612.31<br>744.80<br>-822.05             | 2,552.32                |
| 23 74 16 13-0115 EA 60 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 13,054.29<br>840.60<br>-822.05             | 2,744.95                |
| 23 74 16 13-0116 EA 95 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>   | 15,299.11<br>988.11<br>-986.48             | 3,106.08                |
| 23 74 16 13-0117 EA 112 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 17,181.07<br>1,113.43<br>-986.48           | 3,346.79                |
| 23 74 16 13-0118 EA 140 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 20,162.82<br>1,318.94<br>-986.48           | 3,467.21                |
| 23 74 16 13-0119 EA 170 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 26,032.32<br>1,714.39<br>-986.48           | 4,045.08                |
| 23 74 16 13-0120 EA 200 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 34,034.30<br>2,266.83<br>-986.48           | 4,334.02                |
| 23 74 16 13-0121 EA 230 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 39,579.27<br>2,647.27<br>-986.48           | 4,622.95                |
| 23 74 16 13-0122 EA 270 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 51,153.60<br>3,444.63<br>-986.48           | 5,104.51                |
| 23 74 16 13-0123 EA 330 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 63,864.29<br>4,308.70<br>-1,480.86         | 6,495.67                |
| 23 74 16 13-0124 EA 360 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 78,265.62<br>5,303.95<br>-1,480.86         | 6,549.18                |
| 23 74 16 13-0125 EA 450 MBH Electric Heating Only, Self Contained Package Rooftop Unit .....<br><i>For Gas Heat, Add</i><br><i>For Unit Without Roof Curb, Deduct</i>  | 95,221.56<br>6,461.33<br>-1,480.86         | 7,656.83                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 74 Packaged Outdoor HVAC Equipment**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST           | DEMOLITION<br>UNIT COST |
|--|-------------------------------------|-------------------------|
| 23 74 16 13-0126 EA 540 MBH Electric Heating Only, Self Contained Package Rooftop Unit<br><i>For Gas Heat, Add<br/>For Unit Without Roof Curb, Deduct</i>  | 123,482.32<br>8,380.51<br>-2,194.25 | 9,871.99                |
| <b>23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)</b>   |                                     |                         |
| <b>23 74 23 13 Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units (23 74 23)</b>   |                                     |                         |
| <b>23 74 23 13-0001 Make-Up Air Units (23 74 23 13)</b><br>Note: Units are shipped fully factory assembled in one piece, prewired, prepiped, charged with refrigerant. Includes throwaway filters and start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0866 for crane lifting equipment. |                                     |                         |
| <b>23 74 23 13-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 13-0001)</b><br>Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0867 for crane lifting equipment.  |                                     |                         |
| 23 74 23 13-0003 EA 100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 8,121.37<br>2,115.37<br>983.07      | 642.08                  |
| 23 74 23 13-0004 EA 300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 10,465.01<br>2,772.09<br>1,271.39   | 727.69                  |
| 23 74 23 13-0005 EA 500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 14,505.69<br>3,923.66<br>1,770.41   | 856.10                  |
| 23 74 23 13-0006 EA 670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 14,644.61<br>3,933.23<br>1,784.56   | 913.17                  |
| 23 74 23 13-0007 EA 800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 19,935.66<br>5,467.04<br>2,440.59   | 1,027.32                |
| 23 74 23 13-0008 EA 1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 30,135.79<br>8,398.66<br>3,702.77   | 1,284.15                |
| <b>23 74 23 13-0009 Electric Make-Up Air Units (23 74 23 13-0001)</b><br>Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0867 for crane lifting equipment.  |                                     |                         |
| 23 74 23 13-0010 EA 33 KW, 1/2 HP, 1,200 CFM Make-up Air Unit, Electric<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>   | 16,540.32<br>4,641.06<br>2,035.44   | 642.08                  |
| 23 74 23 13-0011 EA 100 KW, 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 23,604.21<br>6,713.85<br>2,913.79   | 727.69                  |
| 23 74 23 13-0012 EA 150 KW, 2 HP, 4,000 CFM Make-up Air Unit, Electric<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 29,230.82<br>8,341.20<br>3,611.05   | 856.10                  |
| 23 74 23 13-0013 EA 250 KW, 5 HP, 7,500 CFM Make-up Air Unit, Electric<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 37,795.03<br>10,824.85<br>4,673.01  | 1,027.32                |
| 23 74 23 13-0014 EA 400 KW, 10 HP, 10,000 CFM Make-up Air Unit, Electric<br><i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add<br/>For Equipment Base Roof Curb, Add</i>  | 61,014.98<br>17,662.42<br>7,562.67  | 1,284.15                |
| <b>23 76 Evaporative Air-Cooling Equipment (23 70)</b>   |                                     |                         |
| <b>23 76 13 Direct Evaporative Air Coolers (23 76)</b>   |                                     |                         |
| <b>23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit (23 76 13)</b><br>Note: Includes motor, belt and pads.   |                                     |                         |
| 23 76 13 00-0002 EA 3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit  | 1,630.06                            | 424.25                  |
| 23 76 13 00-0003 EA 4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit  | 1,923.45                            | 494.95                  |
| 23 76 13 00-0004 EA 4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit  | 2,465.67                            | 565.66                  |
| 23 76 13 00-0005 EA 5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit  | 2,690.58                            | 636.36                  |
| 23 76 13 00-0006 EA 6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit  | 3,082.51                            | 707.07                  |
| 23 76 13 00-0007 EA 7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit  | 3,324.13                            | 777.78                  |
| <b>23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers (23 76 13)</b><br>Note: Excludes motor starter, piping, power wiring and equipment rigging.   |                                     |                         |
| 23 76 13 00-0009 EA 7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit   | 3,004.73                            | 426.92                  |
| 23 76 13 00-0010 EA 8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit   | 3,100.95                            | 440.74                  |
| 23 76 13 00-0011 EA 9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit   | 3,727.67                            | 612.11                  |
| 23 76 13 00-0012 EA 11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 7,742.74                            | 722.54                  |
| 23 76 13 00-0013 EA 13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 8,490.07                            | 1,057.79                |
| 23 76 13 00-0014 EA 16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 9,693.25                            | 1,128.31                |
| 23 76 13 00-0015 EA 15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 8,996.69                            | 1,269.35                |
| 23 76 13 00-0016 EA 19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 10,703.52                           | 1,586.69                |
| 23 76 13 00-0017 EA 17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 10,936.86                           | 2,074.12                |
| 23 76 13 00-0018 EA 22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit  | 12,096.99                           | 2,115.59                |
| 23 76 13 00-0019 EA 24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit   | 12,789.23                           | 2,350.70                |
| 23 76 13 00-0020 EA 30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit   | 17,365.94                           | 3,672.94                |



|  |           |
|--|-----------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b> |
| Central HVAC Equipment                                   | 23 70     |
| Evaporative Air-Cooling Equipment                        | 23 76     |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 76 13 00-0021 | EA  |     | 35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit ..... | 19,355.35              | 3,832.60             |
| 23 76 13 00-0022 | EA  |     | 40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit ..... | 21,373.79              | 4,006.78             |

**23 80 Decentralized Unitary HVAC Equipment** <sup>(23)</sup>

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 81 Decentralized Unitary HVAC Equipment** <sup>(23 80)</sup>

**23 81 13 Packaged Terminal Air-Conditioners** <sup>(23 81)</sup>

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

**23 81 13 11 Packaged Terminal Air-Conditioners, Through-Wall Units** <sup>(23 81 13)</sup>

**23 81 13 11-0001 Packaged Terminal Air-Conditioners** <sup>(23 81 13 11)</sup>

**23 81 13 11-0002 Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners** <sup>(23 81 13 11-0001)</sup>

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 23 81 13 11-0003 | EA | 7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner.....    | 2,127.22 | 265.15 |
|                  |    | For >35 To 70, Deduct  | -47.91   |        |
|                  |    | For >70 To 100, Deduct   | -79.85   |        |
|                  |    | For >100, Deduct   | -111.78  |        |
| 23 81 13 11-0004 | EA | 9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner.....  | 2,275.94 | 326.27 |
|                  |    | For >35 To 70, Deduct  | -48.72   |        |
|                  |    | For >70 To 100, Deduct   | -81.21   |        |
|                  |    | For >100, Deduct   | -113.69  |        |
| 23 81 13 11-0005 | EA | 11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner..... | 2,410.39 | 347.72 |
|                  |    | For >35 To 70, Deduct  | -51.42   |        |
|                  |    | For >70 To 100, Deduct   | -85.71   |        |
|                  |    | For >100, Deduct   | -119.99  |        |
| 23 81 13 11-0006 | EA | 14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner..... | 2,603.65 | 373.75 |
|                  |    | For >35 To 70, Deduct  | -55.69   |        |
|                  |    | For >70 To 100, Deduct   | -92.82   |        |
|                  |    | For >100, Deduct   | -129.95  |        |

**23 81 13 11-0007 Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners** <sup>(23 81 13 11-0001)</sup>

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 23 81 13 11-0008 | EA | 7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner.....    | 2,285.68 | 289.51 |
|                  |    | For >35 To 70, Deduct  | -51.23   |        |
|                  |    | For >70 To 100, Deduct   | -85.38   |        |
|                  |    | For >100, Deduct   | -119.54  |        |
| 23 81 13 11-0009 | EA | 9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner.....  | 2,420.35 | 326.27 |
|                  |    | For >35 To 70, Deduct  | -53.06   |        |
|                  |    | For >70 To 100, Deduct   | -88.43   |        |
|                  |    | For >100, Deduct   | -123.80  |        |
| 23 81 13 11-0010 | EA | 11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner..... | 2,515.04 | 347.72 |
|                  |    | For >35 To 70, Deduct  | -54.56   |        |
|                  |    | For >70 To 100, Deduct   | -90.94   |        |
|                  |    | For >100, Deduct   | -127.31  |        |
| 23 81 13 11-0011 | EA | 14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner..... | 2,741.78 | 373.75 |
|                  |    | For >35 To 70, Deduct  | -59.84   |        |
|                  |    | For >70 To 100, Deduct   | -99.73   |        |
|                  |    | For >100, Deduct   | -139.62  |        |

**23 81 13 11-0012 Packaged Terminal Air-Conditioners, Through-Wall Unit Sleeve** <sup>(23 81 13 11)</sup>

Note: Includes wall case, exterior grille, weather panel and steel closure panels. Includes bolts, nuts, washers, caulking and lintel supports. Not for use with new A/C units where wall sleeve is provided. Excludes cutting opening for unit or patching masonry or concrete.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 23 81 13 11-0013 | EA | Up To 10,000 BTU Unit, Thru Wall A/C Sleeve .....     | 108.84 |  |
| 23 81 13 11-0014 | EA | >10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve..... | 122.27 |  |
| 23 81 13 11-0015 | EA | >20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve..... | 135.70 |  |

**23 81 13 11-0016 Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units** <sup>(23 81 13 11)</sup>

Note: Includes storage and cleaning.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 23 81 13 11-0017 | EA | Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units..... | 282.83 |  |
|------------------|----|---|--------|--|

**23 81 13 13 Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units** <sup>(23 81 13)</sup>

**23 81 13 13-0001 Single Package Vertical Wall Cooling Unit** <sup>(23 81 13 13)</sup>

Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0867 for crane lifting equipment.

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 23 81 13 13-0002 | EA | 1/2 Ton Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat..... | 5,127.03 | 322.14 |
|------------------|----|--|----------|--------|

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 23 81 13 | 13-0003 | EA  | 1 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 7,743.70               | 337.49               |
| 23 81 13 | 13-0004 | EA  | 1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 10,092.64              | 352.82               |
| 23 81 13 | 13-0005 | EA  | 2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 11,598.15              | 383.50               |
| 23 81 13 | 13-0006 | EA  | 2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 14,533.16              | 444.87               |
| 23 81 13 | 13-0007 | EA  | 3 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 15,622.01              | 552.25               |
| 23 81 13 | 13-0008 | EA  | 3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 17,299.24              | 613.60               |
| 23 81 13 | 13-0009 | EA  | 4 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 19,052.47              | 690.30               |
| 23 81 13 | 13-0010 | EA  | 5 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 21,456.81              | 828.36               |
| 23 81 13 | 13-0011 | EA  | 7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 27,723.61              | 1,027.79             |
| 23 81 13 | 13-0012 | EA  | 10 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....    | 33,126.41              | 1,380.61             |
| 23 81 13 | 13-0013 | EA  | 15 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....    | 46,353.67              | 1,687.41             |
| 23 81 13 | 13-0014 | EA  | 20 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....    | 53,424.30              | 2,009.55             |
| 23 81 13 | 13-0015 | EA  | 25 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....    | 63,796.22              | 2,254.99             |

**23 81 16 Room Air-Conditioners (23 81)**

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 23 81 16 00-0001 |    |  | Window Unit, Room Air-Conditioners (23 81 16)   |          |        |
| 23 81 16 00-0002 |    |  | Cooling Only, Window Unit, Room Air-Conditioners (23 81 16 00-0001)   |          |        |
| 23 81 16 00-0003 |    |  | Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0002)                                      |          |        |
| 23 81 16 00-0004 | EA |  | 5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1) .....          | 564.68   | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -13.39   |        |
|                  |    |  | For >50 To 75, Deduct   | -18.74   |        |
|                  |    |  | For >75 To 100, Deduct  | -26.77   |        |
|                  |    |  | For >100, Deduct  | -32.13   |        |
| 23 81 16 00-0005 | EA |  | 6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1) .....          | 591.59   | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -14.73   |        |
|                  |    |  | For >50 To 75, Deduct   | -20.62   |        |
|                  |    |  | For >75 To 100, Deduct  | -29.46   |        |
|                  |    |  | For >100, Deduct  | -35.35   |        |
| 23 81 16 00-0006 | EA |  | 8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833U1) .....          | 658.86   | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -18.09   |        |
|                  |    |  | For >50 To 75, Deduct   | -25.33   |        |
|                  |    |  | For >75 To 100, Deduct  | -36.19   |        |
|                  |    |  | For >100, Deduct  | -43.43   |        |
| 23 81 16 00-0007 | EA |  | 10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033U1) .....         | 753.03   | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -22.80   |        |
|                  |    |  | For >50 To 75, Deduct   | -31.92   |        |
|                  |    |  | For >75 To 100, Deduct  | -45.61   |        |
|                  |    |  | For >100, Deduct  | -54.73   |        |
| 23 81 16 00-0008 | EA |  | 12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1) .....         | 874.10   | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -28.86   |        |
|                  |    |  | For >50 To 75, Deduct   | -40.40   |        |
|                  |    |  | For >75 To 100, Deduct  | -57.71   |        |
|                  |    |  | For >100, Deduct  | -69.26   |        |
| 23 81 16 00-0009 | EA |  | 15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1) .....         | 1,008.63 | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -35.58   |        |
|                  |    |  | For >50 To 75, Deduct   | -49.82   |        |
|                  |    |  | For >75 To 100, Deduct  | -71.17   |        |
|                  |    |  | For >100, Deduct  | -85.40   |        |
| 23 81 16 00-0010 | EA |  | 8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1) ..... | 954.82   | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -32.89   |        |
|                  |    |  | For >50 To 75, Deduct   | -46.05   |        |
|                  |    |  | For >75 To 100, Deduct  | -65.79   |        |
|                  |    |  | For >100, Deduct  | -78.94   |        |
| 23 81 16 00-0011 | EA |  | 10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1) ..... | 1,022.09 | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -36.26   |        |
|                  |    |  | For >50 To 75, Deduct   | -50.76   |        |
|                  |    |  | For >75 To 100, Deduct  | -72.51   |        |
|                  |    |  | For >100, Deduct  | -87.01   |        |
| 23 81 16 00-0012 | EA |  | 12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1) ..... | 1,075.90 | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -38.95   |        |
|                  |    |  | For >50 To 75, Deduct   | -54.53   |        |
|                  |    |  | For >75 To 100, Deduct  | -77.89   |        |
|                  |    |  | For >100, Deduct  | -93.47   |        |
| 23 81 16 00-0013 | EA |  | 18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2) .....     | 1,129.71 | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -41.64   |        |
|                  |    |  | For >50 To 75, Deduct   | -58.29   |        |
|                  |    |  | For >75 To 100, Deduct  | -83.27   |        |
|                  |    |  | For >100, Deduct  | -99.93   |        |
| 23 81 16 00-0014 | EA |  | 22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2) .....      | 1,237.33 | 148.49 |
|                  |    |  | For >10 To 50, Deduct   | -47.02   |        |
|                  |    |  | For >50 To 75, Deduct   | -65.83   |        |
|                  |    |  | For >75 To 100, Deduct  | -94.04   |        |
|                  |    |  | For >100, Deduct  | -112.84  |        |



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| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Decentralized Unitary HVAC Equipment</b>              | <b>23 80</b> |
| <b>Decentralized Unitary HVAC Equipment</b>              | <b>23 81</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 81 16 00-0015 EA 25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2).....                        | 1,250.79                  | 148.49                  |
| <i>For &gt;10 To 50, Deduct</i>  | -47.69                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -66.77                    |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -95.38                    |                         |
| <i>For &gt;100, Deduct</i>   | -114.46                   |                         |
| 23 81 16 00-0016 EA 28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2).....                        | 1,961.68                  | 148.49                  |
| <i>For &gt;10 To 50, Deduct</i>  | -83.24                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -116.53                   |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -166.47                   |                         |
| <i>For &gt;100, Deduct</i>   | -199.77                   |                         |
| <b>23 81 16 00-0017 Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) <small>(23 81 16 00-0002)</small></b>                                |                           |                         |
| 23 81 16 00-0018 EA 8,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10C).....                               | 2,077.76                  | 148.49                  |
| 23 81 16 00-0019 EA 10,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10C).....                              | 2,275.83                  | 148.49                  |
| 23 81 16 00-0020 EA 11,900 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C).....                              | 2,365.86                  | 148.49                  |
| 23 81 16 00-0021 EA 12,000 BTU, 12.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C).....                          | 2,401.87                  | 148.49                  |
| 23 81 16 00-0022 EA 20,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30C).....                          | 2,725.98                  | 148.49                  |
| 23 81 16 00-0023 EA 24,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C).....                          | 3,536.25                  | 148.49                  |
| 23 81 16 00-0024 EA 28,000 BTU, 10.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30C).....                          | 3,806.34                  | 148.49                  |
| 23 81 16 00-0025 EA 36,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B).....                           | 4,166.46                  | 148.49                  |
| <b>23 81 16 00-0026 Heating And Cooling, Window Unit, Room Air-Conditioners <small>(23 81 16 00-0001)</small></b>  |                           |                         |
| <b>23 81 16 00-0027 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) <small>(23 81 16 00-0026)</small></b>              |                           |                         |
| 23 81 16 00-0028 EA 8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH0822R1).....       | 1,075.90                  | 148.49                  |
| <i>For &gt;10 To 50, Deduct</i>  | -38.95                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -54.53                    |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -77.89                    |                         |
| <i>For &gt;100, Deduct</i>   | -93.47                    |                         |
| 23 81 16 00-0029 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222R2)..... | 1,223.88                  | 148.49                  |
| <i>For &gt;10 To 50, Deduct</i>  | -46.35                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -64.88                    |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -92.69                    |                         |
| <i>For &gt;100, Deduct</i>   | -111.23                   |                         |
| 23 81 16 00-0030 EA 18,500 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822R2)..... | 1,304.60                  | 148.49                  |
| <i>For &gt;10 To 50, Deduct</i>  | -50.38                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -70.53                    |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -100.76                   |                         |
| <i>For &gt;100, Deduct</i>   | -120.92                   |                         |
| 23 81 16 00-0031 EA 25,000 BTU, 9.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522R2).....  | 1,600.57                  | 148.49                  |
| <i>For &gt;10 To 50, Deduct</i>  | -65.18                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -91.25                    |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -130.36                   |                         |
| <i>For &gt;100, Deduct</i>   | -156.43                   |                         |
| <b>23 81 16 00-0032 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) <small>(23 81 16 00-0026)</small></b>               |                           |                         |
| 23 81 16 00-0033 EA 12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B).....    | 2,491.90                  | 148.49                  |
| <b>23 81 16 00-0034 Accessories <small>(23 81 16 00-0001)</small></b>  |                           |                         |
| 23 81 16 00-0035 SET Aluminum Air Conditioner Unit Frame And Bracket Assembly.....   | 642.49                    | 84.25                   |
| <b>23 81 16 00-0036 Removal And Reinstallation Of Room Air-Conditioners <small>(23 81 16)</small></b>  |                           |                         |
| Note: Includes storage and cleaning.   |                           |                         |
| 23 81 16 00-0037 EA Removal And Reinstallation Of Room Air-Conditioning Unit In Window Lower Sash.....   | 176.77                    |                         |
| 23 81 16 00-0038 EA Removal And Reinstallation Of Room Air-Conditioning Unit In Window Upper Sash.....   | 374.84                    |                         |
| <b>23 81 16 00-0039 Through-The-Wall, Room Air-Conditioners <small>(23 81 16)</small></b>  |                           |                         |
| Note: Base unit excludes wall sleeve.  |                           |                         |
| <b>23 81 16 00-0040 Cooling Only, Through-The-Wall, Room Air-Conditioners <small>(23 81 16 00-0039)</small></b>  |                           |                         |
| <b>23 81 16 00-0041 Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) <small>(23 81 16 00-0040)</small></b>                                |                           |                         |
| 23 81 16 00-0042 EA 8,000 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10A).....                          | 1,560.77                  | 106.06                  |
| <i>For &gt;10 To 50, Deduct</i>  | -67.43                    |                         |
| <i>For &gt;50 To 75, Deduct</i>  | -94.41                    |                         |
| <i>For &gt;75 To 100, Deduct</i>   | -134.87                   |                         |
| <i>For &gt;100, Deduct</i>   | -161.84                   |                         |
| <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



| MINOR              | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--------------------|-----|-----|--|------------------------|----------------------|
| 23 81 16 00-0043   | EA  |     | 9,800 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10B).....  | 1,686.81               | 106.06               |
|                    |     |     | <i>For &gt;10 To 50, Deduct</i>  | -73.73                 |                      |
|                    |     |     | <i>For &gt;50 To 75, Deduct</i>  | -103.23                |                      |
|                    |     |     | <i>For &gt;75 To 100, Deduct</i>   | -147.47                |                      |
|                    |     |     | <i>For &gt;100, Deduct</i>   | -176.96                |                      |
|                    |     |     | <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                 |                      |
| 23 81 16 00-0044   | EA  |     | 12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A).....  | 1,920.89               | 106.06               |
|                    |     |     | <i>For &gt;10 To 50, Deduct</i>  | -85.44                 |                      |
|                    |     |     | <i>For &gt;50 To 75, Deduct</i>  | -119.61                |                      |
|                    |     |     | <i>For &gt;75 To 100, Deduct</i>   | -170.88                |                      |
|                    |     |     | <i>For &gt;100, Deduct</i>   | -205.05                |                      |
|                    |     |     | <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                 |                      |
| 23 81 16 00-0045   | EA  |     | 10,000 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D30A).....   | 1,686.81               | 106.06               |
|                    |     |     | <i>For &gt;10 To 50, Deduct</i>  | -73.73                 |                      |
|                    |     |     | <i>For &gt;50 To 75, Deduct</i>  | -103.23                |                      |
|                    |     |     | <i>For &gt;75 To 100, Deduct</i>   | -147.47                |                      |
|                    |     |     | <i>For &gt;100, Deduct</i>   | -176.96                |                      |
|                    |     |     | <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                 |                      |
| 23 81 16 00-0046   | EA  |     | 12,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D30A).....  | 1,920.89               | 106.06               |
|                    |     |     | <i>For &gt;10 To 50, Deduct</i>  | -85.44                 |                      |
|                    |     |     | <i>For &gt;50 To 75, Deduct</i>  | -119.61                |                      |
|                    |     |     | <i>For &gt;75 To 100, Deduct</i>   | -170.88                |                      |
|                    |     |     | <i>For &gt;100, Deduct</i>   | -205.05                |                      |
|                    |     |     | <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                 |                      |
| 23 81 16 00-0047   |     |     | <b>Heating And Cooling, Through-The-Wall, Room Air-Conditioners</b> (23 81 16 00-0039)   |                        |                      |
| 23 81 16 00-0048   |     |     | <b>Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich)</b> (23 81 16 00-0047)  |                        |                      |
| 23 81 16 00-0049   | EA  |     | 10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33).....  | 1,974.91               | 106.06               |
|                    |     |     | <i>For &gt;10 To 50, Deduct</i>  | -88.14                 |                      |
|                    |     |     | <i>For &gt;50 To 75, Deduct</i>  | -123.40                |                      |
|                    |     |     | <i>For &gt;75 To 100, Deduct</i>   | -176.28                |                      |
|                    |     |     | <i>For &gt;100, Deduct</i>   | -211.53                |                      |
|                    |     |     | <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                 |                      |
| 23 81 16 00-0050   | EA  |     | 12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33).....  | 2,118.96               | 106.06               |
|                    |     |     | <i>For &gt;10 To 50, Deduct</i>  | -95.34                 |                      |
|                    |     |     | <i>For &gt;50 To 75, Deduct</i>  | -133.48                |                      |
|                    |     |     | <i>For &gt;75 To 100, Deduct</i>   | -190.68                |                      |
|                    |     |     | <i>For &gt;100, Deduct</i>   | -228.82                |                      |
|                    |     |     | <i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>  | 305.54                 |                      |
| <b>23 81 23</b>    |     |     | <b>Computer-Room Air-Conditioners</b> (23 81)  |                        |                      |
|                    |     |     | Note: Includes equipment rigging. Indoor units include filters.  |                        |                      |
| <b>23 81 23 12</b> |     |     | <b>Large-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units</b> (23 81 23)  |                        |                      |
| 23 81 23 12-0001   |     |     | <b>Floor Mounted Air Cooled Direct Expansion Type</b> (23 81 23 12)  |                        |                      |
|                    |     |     | Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquid sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. Excludes precharged copper pipe. |                        |                      |
| 23 81 23 12-0002   | EA  |     | 3 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....  | 38,408.01              | 3,018.36             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 4,234.44               |                      |
| 23 81 23 12-0003   | EA  |     | 5 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....  | 42,387.76              | 3,301.33             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 4,676.05               |                      |
| 23 81 23 12-0004   | EA  |     | 6 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....  | 58,481.99              | 3,772.95             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 6,608.79               |                      |
| 23 81 23 12-0005   | EA  |     | 8 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....  | 63,986.79              | 4,008.76             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 7,253.05               |                      |
| 23 81 23 12-0006   | EA  |     | 10 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....   | 69,491.58              | 4,244.56             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 7,897.30               |                      |
| 23 81 23 12-0007   | EA  |     | 16 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....   | 77,950.53              | 5,093.47             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 8,783.12               |                      |
| 23 81 23 12-0008   | EA  |     | 20 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....   | 88,034.82              | 5,659.42             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 9,952.16               |                      |
| 23 81 23 12-0009   | EA  |     | 22 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....   | 92,096.47              | 5,846.09             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 10,419.63              |                      |
| 23 81 23 12-0010   | EA  |     | 24 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....   | 100,202.96             | 6,036.71             |
|                    |     |     | Note: Includes interior unit and remote condenser. Excludes piping.  |                        |                      |
|                    |     |     | <i>For Liebert Unit, Add</i>   | 11,392.24              |                      |



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| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Decentralized Unitary HVAC Equipment</b>              | <b>23 80</b> |
| <b>Decentralized Unitary HVAC Equipment</b>              | <b>23 81</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 23 81 23 12-0011 EA 30 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type.....<br>Note: Includes interior unit and remote condenser. Excludes piping.<br><i>For Liebert Unit, Add</i>  | 108,422.99<br><br>12,290.24 | 6,791.30                |
| <b>23 81 23 12-0012 Floor Mounted Chilled Water Type</b> <small>(23 81 23 12)</small><br>Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for chilled water source. |                             |                         |
| 23 81 23 12-0013 EA 3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>   | 22,968.14<br>2,526.32       | 2,068.19                |
| 23 81 23 12-0014 EA 5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>   | 24,704.31<br>2,706.22       | 2,290.92                |
| 23 81 23 12-0015 EA 12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>  | 30,768.65<br>3,264.52       | 3,489.41                |
| 23 81 23 12-0016 EA 16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>  | 32,131.93<br>3,427.33       | 3,535.36                |
| 23 81 23 12-0017 EA 20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>  | 33,373.58<br>3,556.54       | 3,676.78                |
| 23 81 23 12-0018 EA 22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>  | 34,239.61<br>3,608.23       | 4,030.32                |
| 23 81 23 12-0019 EA 31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....<br><i>For Liebert Unit, Add</i>  | 36,353.15<br>3,814.97       | 4,383.86                |
| <b>23 81 23 12-0020 Floor Mounted Water Source</b> <small>(23 81 23 12)</small><br>Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes water source.  |                             |                         |
| 23 81 23 12-0021 EA 3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>   | 17,953.23<br>1,891.74       | 1,886.47                |
| 23 81 23 12-0022 EA 5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>   | 19,724.71<br>2,095.47       | 1,980.80                |
| 23 81 23 12-0023 EA 6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>   | 25,394.67<br>2,786.68       | 2,075.12                |
| 23 81 23 12-0024 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>   | 27,380.88<br>2,997.69       | 2,263.77                |
| 23 81 23 12-0025 EA 9 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>   | 28,803.09<br>3,157.76       | 2,358.37                |
| 23 81 23 12-0026 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>  | 30,225.29<br>3,317.83       | 2,452.42                |
| 23 81 23 12-0027 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>  | 31,446.26<br>3,434.24       | 2,641.06                |
| 23 81 23 12-0028 EA 16 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>  | 32,846.87<br>3,579.76       | 2,829.71                |
| 23 81 23 12-0029 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>  | 33,863.47<br>3,673.54       | 3,018.36                |
| 23 81 23 12-0030 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....<br><i>For Liebert Unit, Add</i>  | 38,728.92<br>4,171.54       | 3,584.30                |
| <b>23 81 23 12-0031 Floor Mounted Glycol System Type</b> <small>(23 81 23 12)</small><br>Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for water source.         |                             |                         |
| 23 81 23 12-0032 EA 3 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>  | 46,088.61<br>5,416.38       | 2,068.19                |
| 23 81 23 12-0033 EA 5 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>  | 49,609.78<br>5,819.40       | 2,290.92                |
| 23 81 23 12-0034 EA 6 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>  | 64,800.54<br>7,672.29       | 2,566.68                |
| 23 81 23 12-0035 EA 8 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>  | 74,943.80<br>8,894.24       | 2,842.44                |
| 23 81 23 12-0036 EA 9 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>  | 79,174.06<br>9,400.04       | 2,980.32                |
| 23 81 23 12-0037 EA 10 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 84,538.98<br>10,047.67      | 3,118.20                |
| 23 81 23 12-0038 EA 12 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 90,258.19<br>10,739.60      | 3,256.78                |
| 23 81 23 12-0039 EA 15 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 96,894.81<br>11,546.19      | 3,379.81                |
| 23 81 23 12-0040 EA 16 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 103,176.24<br>12,304.86     | 3,535.36                |
| 23 81 23 12-0041 EA 20 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 113,137.40<br>13,527.02     | 3,676.78                |
| 23 81 23 12-0042 EA 22 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 117,318.27<br>13,993.06     | 4,030.32                |
| 23 81 23 12-0043 EA 30 Ton Computer Room Air Conditioner, Glycol System Type.....<br><i>For Liebert Unit, Add</i>   | 142,924.92<br>17,136.44     | 4,383.86                |
| <b>23 81 23 12-0044 Removal And Reinstallation Of Computer Room Unit</b> <small>(23 81 23 12)</small><br>Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.  |                             |                         |
| 23 81 23 12-0045 EA Removal And Reinstallation Up To 6 Ton, Floor Mounted Chilled Water Computer Room Unit.....   | 2,828.30                    |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 81 23 12-0046 EA Removal And Reinstallation Up To 6 Ton Direct Expansion Computer Room Unit .....   | 2,356.92                  |                         |
| <b>23 81 23 13 Computer-Room Air-Conditioners, Ceiling Mounted Units (23 81 23)</b>  |                           |                         |
| <b>23 81 23 13-0001 Ceiling Mounted Packaged Computer Room Air Conditioner (23 81 23 13)</b><br>Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. |                           |                         |
| 23 81 23 13-0002 EA 1 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....  | 15,146.73                 | 896.57                  |
| For Liebert Unit, Add  | 1,725.31                  |                         |
| 23 81 23 13-0003 EA 1.5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....  | 16,772.96                 | 1,076.73                |
| For Liebert Unit, Add  | 1,894.83                  |                         |
| 23 81 23 13-0004 EA 2 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....  | 19,192.27                 | 1,347.54                |
| For Liebert Unit, Add  | 2,146.51                  |                         |
| 23 81 23 13-0005 EA 3 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....  | 23,555.83                 | 1,572.11                |
| For Liebert Unit, Add  | 2,649.86                  |                         |
| 23 81 23 13-0006 EA 5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....  | 31,814.49                 | 1,708.72                |
| For Liebert Unit, Add  | 3,656.58                  |                         |
| <b>23 81 26 Split-System Air-Conditioners (23 81)</b>  |                           |                         |
| <b>23 81 26 13 Small-Capacity Split-System Air-Conditioners (23 81 26)</b>   |                           |                         |
| <b>23 81 26 13-0001 Split System A/C Unit (23 81 26 13)</b><br>See CSI section 23 23 16 00-0001 for piping, 23 54 00 00-0000 for furnaces.   |                           |                         |
| <b>23 81 26 13-0002 Ductless Split System Air Conditioners (23 81 26 13-0001)</b><br>Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0024 for ductless heat pumps.   |                           |                         |
| <b>23 81 26 13-0003 Wall Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b>   |                           |                         |
| 23 81 26 13-0004 EA 9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners .....  | 2,387.33                  | 466.67                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0005 EA 11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner .....  | 2,591.24                  | 509.10                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0006 EA 17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners .....   | 3,209.35                  | 565.66                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0007 EA 24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners .....   | 3,567.12                  | 622.22                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0008 EA 25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners .....   | 5,353.78                  | 678.79                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0009 EA 29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners .....   | 6,191.46                  | 707.07                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0010 EA 31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners .....   | 6,782.30                  | 753.74                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| <b>23 81 26 13-0011 Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b><br>Note: Use this section only when matching indoor and outdoor capacity units are not used.  |                           |                         |
| 23 81 26 13-0012 EA 7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....   | 1,040.43                  | 226.27                  |
| Note: Includes indoor unit and wireless thermostat.  |                           |                         |
| 23 81 26 13-0013 EA 9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....   | 1,101.82                  | 240.41                  |
| Note: Includes indoor unit and wireless thermostat.  |                           |                         |
| 23 81 26 13-0014 EA 11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....  | 1,164.11                  | 254.55                  |
| Note: Includes indoor unit and wireless thermostat.  |                           |                         |
| 23 81 26 13-0015 EA 17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....  | 1,308.09                  | 268.69                  |
| Note: Includes indoor unit and wireless thermostat.  |                           |                         |
| 23 81 26 13-0016 EA 24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....  | 1,398.20                  | 282.83                  |
| Note: Includes indoor unit and wireless thermostat.  |                           |                         |
| 23 81 26 13-0017 EA 19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners .....   | 2,753.35                  | 339.39                  |
| Note: Includes outdoor unit and refrigerant charge.  |                           |                         |
| 23 81 26 13-0018 EA 25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners .....   | 3,044.01                  | 367.68                  |
| Note: Includes outdoor unit and refrigerant charge.  |                           |                         |
| 23 81 26 13-0019 EA 30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners .....   | 4,717.16                  | 395.96                  |
| Note: Includes outdoor unit and refrigerant charge.  |                           |                         |
| <b>23 81 26 13-0020 Suspended Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b><br>Note: Excludes hangers.   |                           |                         |
| 23 81 26 13-0021 EA 24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners .....  | 5,706.89                  | 678.79                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0022 EA 31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners .....  | 6,955.85                  | 810.30                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| 23 81 26 13-0023 EA 39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners .....  | 8,415.87                  | 848.49                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |
| <b>23 81 26 13-0024 Recessed Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b><br>Note: Excludes hangers.  |                           |                         |
| 23 81 26 13-0025 EA 11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners .....   | 3,572.93                  | 565.66                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 81 26 13-0026 EA 17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   | 4,151.55                  | 622.22                  |
| 23 81 26 13-0027 EA 24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge. | 5,713.65                  | 735.36                  |
| 23 81 26 13-0028 EA 32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge. | 6,596.76                  | 810.30                  |
| 23 81 26 13-0029 EA 39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge. | 8,236.32                  | 848.49                  |
| <b>23 81 26 13-0030 Ductless Split System Accessories (23 81 26 13-0002)</b>  |                           |                         |
| 23 81 26 13-0031 LF 3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 15.10                     | 2.03                    |
| 23 81 26 13-0032 LF 4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 19.30                     | 2.23                    |
| 23 81 26 13-0033 LF 6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 23.94                     | 2.45                    |
| 23 81 26 13-0034 EA 3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 25.49                     | 3.80                    |
| 23 81 26 13-0035 EA 4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 42.97                     | 4.18                    |
| 23 81 26 13-0036 EA 6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 48.89                     | 4.60                    |
| 23 81 26 13-0037 EA 3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 62.65                     | 7.60                    |
| 23 81 26 13-0038 EA 4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 102.26                    | 8.36                    |
| 23 81 26 13-0039 EA 6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 114.11                    | 9.20                    |
| 23 81 26 13-0040 EA 3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 82.84                     | 8.11                    |
| 23 81 26 13-0041 EA 4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 96.95                     | 8.92                    |
| 23 81 26 13-0042 EA 6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 148.61                    | 9.81                    |
| 23 81 26 13-0043 EA 3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 62.65                     | 7.60                    |
| 23 81 26 13-0044 EA 4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 102.26                    | 8.36                    |
| 23 81 26 13-0045 EA 6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 114.11                    | 9.20                    |
| 23 81 26 13-0046 EA 3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 82.68                     | 12.68                   |
| 23 81 26 13-0047 EA 4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 119.16                    | 13.94                   |
| 23 81 26 13-0048 EA 6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 142.03                    | 15.33                   |
| 23 81 26 13-0049 EA 2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 44.96                     | 2.53                    |
| 23 81 26 13-0050 EA 3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 50.99                     | 7.60                    |
| 23 81 26 13-0051 EA 4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 81.27                     | 8.36                    |
| 23 81 26 13-0052 EA 3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 46.33                     | 7.60                    |
| 23 81 26 13-0053 EA 4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 62.62                     | 8.36                    |
| 23 81 26 13-0054 EA 6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....   | 67.48                     | 9.20                    |
| 23 81 26 13-0055 EA 4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 214.89                    | 10.13                   |
| 23 81 26 13-0056 EA 6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....  | 243.59                    | 11.15                   |
| 23 81 26 13-0057 EA 14" Condensing Unit Mounting Blocks With End Caps .....   | 147.82                    | 38.02                   |
| 23 81 26 13-0058 EA 17" Condensing Unit Mounting Blocks With End Caps .....   | 162.47                    | 40.55                   |
| 23 81 26 13-0059 EA 36" Condensing Unit Mounting Blocks With End Caps .....   | 216.78                    | 43.08                   |
| 23 81 26 13-0060 EA End Cap, Set of 4 .....   | 23.29                     |                         |
| 23 81 26 13-0061 EA 18" Condensing Unit Type 2 Wall Bracket, 165 LB Capacity .....  | 312.09                    | 76.02                   |
| 23 81 26 13-0062 EA 21" Condensing Unit Type 2 Wall Bracket, 220 LB Capacity .....  | 331.43                    | 81.09                   |
| 23 81 26 13-0063 LF 5/8" ID Condensate Drain Line .....   | 3.20                      | 0.20                    |
| 23 81 26 13-0064 LF 3/4" ID Condensate Drain Line .....   | 3.31                      | 0.20                    |
| <b>23 81 26 13-0065 Cased A/C Evaporator Coils (23 81 26 13-0001)</b>   |                           |                         |
| <b>23 81 26 13-0066 Vertical Cased A/C Evaporator Coils (23 81 26 13-0065)</b>  |                           |                         |
| 23 81 26 13-0067 EA 1-1/2 Ton Vertical Cased A/C Evaporator Coil .....  | 745.54                    | 153.18                  |
| 23 81 26 13-0068 EA 2 Ton Vertical Cased A/C Evaporator Coil .....  | 780.81                    | 164.66                  |
| 23 81 26 13-0069 EA 2-1/2 Ton Vertical Cased A/C Evaporator Coil .....  | 916.21                    | 176.16                  |
| 23 81 26 13-0070 EA 3 Ton Vertical Cased A/C Evaporator Coil .....  | 1,035.83                  | 187.64                  |
| 23 81 26 13-0071 EA 3-1/2 Ton Vertical Cased A/C Evaporator Coil .....  | 1,184.66                  | 195.30                  |
| 23 81 26 13-0072 EA 4 Ton Vertical Cased A/C Evaporator Coil .....  | 1,312.41                  | 202.96                  |
| 23 81 26 13-0073 EA 4-1/2 Ton Vertical Cased A/C Evaporator Coil .....  | 1,409.80                  | 218.28                  |
| 23 81 26 13-0074 EA 5 Ton Vertical Cased A/C Evaporator Coil .....  | 1,425.77                  | 229.77                  |
| <b>23 81 26 13-0075 "A" Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)</b>  |                           |                         |
| 23 81 26 13-0076 EA 2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 893.75                    | 157.01                  |
| 23 81 26 13-0077 EA 2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 1,018.45                  | 165.82                  |
| 23 81 26 13-0078 EA 3 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 1,157.13                  | 176.16                  |
| 23 81 26 13-0079 EA 3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 1,199.48                  | 182.51                  |
| 23 81 26 13-0080 EA 4 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 1,256.06                  | 191.47                  |
| 23 81 26 13-0081 EA 4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 1,276.17                  | 201.42                  |
| 23 81 26 13-0082 EA 5 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....  | 1,295.88                  | 211.38                  |
| <b>23 81 26 13-0083 Slab Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)</b>   |                           |                         |
| 23 81 26 13-0084 EA 2 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....   | 793.61                    | 157.01                  |
| 23 81 26 13-0085 EA 3 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....   | 944.56                    | 176.16                  |
| 23 81 26 13-0086 EA 4 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....   | 1,083.90                  | 191.47                  |
| 23 81 26 13-0087 EA 5 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....   | 1,294.13                  | 211.38                  |
| <b>23 81 26 16 Large-Capacity Split-System Air-Conditioners (23 81 26)</b>  |                           |                         |
| 23 81 26 16-0001 Split System Air Conditioners, Variable Refrigerant Flow (Mitsubishi City Multi) (23 81 26 16)   |                           |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 23 81 26 16-0002 |     |     | <b>Outdoor Units</b> <small>(23 81 26 16-0001)</small>   |                        |                      |
| 23 81 26 16-0003 | EA  |     | 6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A).....  | 16,675.28              | 742.43               |
| 23 81 26 16-0004 | EA  |     | 8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A).....  | 18,111.44              | 883.84               |
| 23 81 26 16-0005 | EA  |     | 10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A).....  | 20,416.77              | 1,060.61             |
| 23 81 26 16-0006 | EA  |     | 12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A).....  | 25,051.50              | 1,095.97             |
| 23 81 26 16-0007 | EA  |     | 12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A).....   | 33,195.51              | 1,131.32             |
| 23 81 26 16-0008 | EA  |     | 14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YSKMU-A).....   | 34,419.54              | 1,166.67             |
| 23 81 26 16-0009 | EA  |     | 16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A).....   | 35,643.58              | 1,202.02             |
| 23 81 26 16-0010 | EA  |     | 18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A).....   | 37,736.79              | 1,272.73             |
| 23 81 26 16-0011 | EA  |     | 20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A).....   | 39,830.00              | 1,343.44             |
| 23 81 26 16-0012 | EA  |     | 22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A).....   | 44,535.44              | 1,414.15             |
| 23 81 26 16-0013 | EA  |     | 24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A).....   | 49,240.87              | 1,484.85             |
| 23 81 26 16-0014 |     |     | <b>Indoor Units</b> <small>(23 81 26 16-0001)</small>  |                        |                      |
| 23 81 26 16-0015 | EA  |     | 6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2).....                          | 1,790.36               | 229.80               |
| 23 81 26 16-0016 | EA  |     | 8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NHMU-E2).....                            | 1,884.86               | 247.48               |
| 23 81 26 16-0017 | EA  |     | 12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NHMU-E2).....                        | 1,969.51               | 265.15               |
| 23 81 26 16-0018 | EA  |     | 15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NHMU-E2).....                          | 2,068.93               | 282.83               |
| 23 81 26 16-0019 | EA  |     | 18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NHMU-E2).....                          | 2,253.85               | 335.86               |
| 23 81 26 16-0020 | EA  |     | 24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NKMU-E2).....                          | 2,530.32               | 406.56               |
| 23 81 26 16-0021 | EA  |     | 30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NKMU-E2).....                          | 2,741.98               | 441.93               |
| 23 81 26 16-0022 | EA  |     | 6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E3).....              | 2,560.85               | 252.78               |
| 23 81 26 16-0023 | EA  |     | 8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E3).....                | 2,653.96               | 272.22               |
| 23 81 26 16-0024 | EA  |     | 12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E3).....            | 2,801.28               | 291.67               |
| 23 81 26 16-0025 | EA  |     | 15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E3).....              | 3,037.31               | 311.11               |
| 23 81 26 16-0026 | EA  |     | 18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E3).....              | 3,222.99               | 369.44               |
| 23 81 26 16-0027 | EA  |     | 24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E3).....              | 3,555.98               | 447.23               |
| 23 81 26 16-0028 | EA  |     | 27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E3).....              | 3,737.79               | 466.67               |
| 23 81 26 16-0029 | EA  |     | 30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E3).....              | 3,939.33               | 486.12               |
| 23 81 26 16-0030 | EA  |     | 36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E3).....              | 4,366.79               | 534.72               |
| 23 81 26 16-0031 | EA  |     | 48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E3).....              | 4,838.47               | 588.20               |
| 23 81 26 16-0032 | EA  |     | 54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E3).....              | 5,241.97               | 647.01               |
| 23 81 26 16-0033 | EA  |     | 72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E).....  | 6,598.63               | 711.71               |
| 23 81 26 16-0034 | EA  |     | 96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E)..... | 7,480.29               | 782.89               |
| 23 81 26 16-0035 | EA  |     | 12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP12NEMU-E).....     | 2,912.67               | 291.67               |
| 23 81 26 16-0036 | EA  |     | 15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP15NEMU-E).....       | 3,072.80               | 311.11               |
| 23 81 26 16-0037 | EA  |     | 18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP18NEMU-E).....       | 3,261.44               | 369.44               |
| 23 81 26 16-0038 | EA  |     | 24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP24NEMU-E).....       | 3,670.33               | 447.23               |
| 23 81 26 16-0039 | EA  |     | 30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP30NEMU-E).....       | 3,956.09               | 486.12               |
| 23 81 26 16-0040 | EA  |     | 36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP36NEMU-E).....       | 4,815.30               | 534.73               |
| 23 81 26 16-0041 | EA  |     | 6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5).....      | 2,615.07               | 252.78               |
| 23 81 26 16-0042 | EA  |     | 8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5).....        | 2,752.53               | 272.22               |
| 23 81 26 16-0043 | EA  |     | 12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5).....    | 2,959.00               | 291.67               |
| 23 81 26 16-0044 | EA  |     | 15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5).....      | 3,116.17               | 311.11               |
| 23 81 26 16-0045 | EA  |     | 8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4).....        | 2,437.09               | 272.22               |
| 23 81 26 16-0046 | EA  |     | 12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4).....    | 2,564.70               | 291.67               |
| 23 81 26 16-0047 | EA  |     | 15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NCMU-ER4).....      | 2,697.23               | 311.11               |
| 23 81 26 16-0048 |     |     | <b>Controllers For Outdoor Units</b> <small>(23 81 26 16-0001)</small>   |                        |                      |
| 23 81 26 16-0049 | EA  |     | 8 Branch (Main BC) (Mitsubishi CMB-P108NU-HA1).....  | 8,951.00               | 212.12               |
| 23 81 26 16-0050 | EA  |     | 10 Branch (Main BC) (Mitsubishi CMB-P1010NU-HA1).....  | 10,352.46              | 247.48               |
| 23 81 26 16-0051 | EA  |     | 13 Branch (Main BC) (Mitsubishi CMB-P1013NU-GA).....   | 11,443.42              | 282.83               |
| 23 81 26 16-0052 | EA  |     | 16 Branch (Main BC) (Mitsubishi CMB-P1016NU-HA).....   | 13,574.35              | 318.18               |
| 23 81 26 16-0053 | EA  |     | 4 Branch (Sub BC) (Mitsubishi CMB-P104NU-GB).....  | 4,999.65               | 141.41               |
| 23 81 26 16-0054 | EA  |     | 8 Branch (Sub BC) (Mitsubishi CMB-P108NU-GB).....  | 7,699.09               | 212.12               |
| 23 81 26 16-0055 | EA  |     | 16 Branch (Sub BC) (Mitsubishi CMB-P1016NU-HB).....  | 11,765.49              | 318.18               |
| 23 81 26 16-0056 |     |     | <b>Energy Recovery Units</b> <small>(23 81 26 16-0001)</small>   |                        |                      |
| 23 81 26 16-0057 | EA  |     | 36.2 MBH Cooling, 39.9 MBH Heating Hydronic Heat Exchanger Auxiliary Unit (Mitsubishi PWFY-P36NMU-E2-AU).....      | 6,358.47               | 212.12               |
| 23 81 26 16-0058 | EA  |     | 39.9 MBH Hydronic Heat Exchanger Booster Unit (Mitsubishi PWFY-P36NMU-E-BU).....                                   | 11,957.54              | 212.12               |
| 23 81 26 16-0059 | EA  |     | 112 MBH Cooling, 61.4 MBH Heating Reheat Unit (Mitsubishi PEFY-AF1200CFMR).....                                    | 12,141.60              | 247.48               |
| 23 81 26 16-0060 | EA  |     | Lossnay Energy Recovery Ventilator ERV, 300 CFM (Mitsubishi LGH-F300RX5-E).....                                    | 2,571.47               | 176.77               |
| 23 81 26 16-0061 | EA  |     | Lossnay Energy Recovery Ventilator ERV, 470 CFM (Mitsubishi LGH-F470RX5-E).....                                    | 3,260.86               | 183.84               |
| 23 81 26 16-0062 | EA  |     | Lossnay Energy Recovery Ventilator ERV, 600 CFM (Mitsubishi LGH-F600RX5-E).....                                    | 3,876.31               | 190.91               |



|                         | MINOR   | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|---|---------|-----|--|------------------------|----------------------|
|                         | 23 81 26  | 16-0063 | EA  | Lossnay Energy Recovery Ventilator ERV, 1,200 CFM (Mitsubishi LGH-F1200RX5-E1) .....         | 7,014.00               | 212.12               |
| <b>23 81 26 16-0064</b> | <b>Piping Specialties (23 81 26 16-0001)</b>                    |         |     |  |                        |                      |
|                         | 23 81 26  | 16-0065 | EA  | Maintenance Tool Interface (Mitsubishi CMS-MNG-E) .....                                      | 877.32                 |                      |
|                         | 23 81 26  | 16-0066 | EA  | Branch Joint (Mitsubishi CMY-Y102SS-G2) .....  | 262.71                 | 58.19                |
|                         | 23 81 26  | 16-0067 | EA  | Branch Joint (Mitsubishi CMY-Y102LS-G2) .....  | 262.71                 | 58.19                |
|                         | 23 81 26  | 16-0068 | EA  | Branch Joint (Mitsubishi CMY-Y202S-G2) .....   | 290.08                 | 61.26                |
|                         | 23 81 26  | 16-0069 | EA  | Branch Joint (Mitsubishi CMY-Y302S-G2) .....   | 359.60                 | 68.91                |
|                         | 23 81 26  | 16-0070 | EA  | Header - 4 Branch (Mitsubishi CMY-Y64-G-E) .....   | 475.08                 | 99.54                |
|                         | 23 81 26  | 16-0071 | EA  | Header - 8 Branch (Mitsubishi CMY-Y68-G-E) .....   | 822.01                 | 199.07               |
|                         | 23 81 26  | 16-0072 | EA  | Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" (Mitsubishi BV38FFSI) .....         | 142.65                 | 24.50                |
|                         | 23 81 26  | 16-0073 | EA  | Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" (Mitsubishi BV58FFSI) .....         | 163.98                 | 33.68                |
| <b>23 81 26 16-0074</b> | <b>Split System Air Conditioners (Daikin VRV) (23 81 26 16)</b> |         |     |  |                        |                      |
| <b>23 81 26 16-0075</b> | <b>Heat Pump Outdoor Units (23 81 26 16-0074)</b>               |         |     |  |                        |                      |
|                         | 23 81 26  | 16-0076 | EA  | 6 Ton Heat Pump Outdoor Unit (Daikin) .....  | 25,549.95              | 742.43               |
|                         | 23 81 26  | 16-0077 | EA  | 8 Ton Heat Pump Outdoor Unit (Daikin) .....  | 28,577.05              | 883.84               |
|                         | 23 81 26  | 16-0078 | EA  | 10 Ton Heat Pump Outdoor Unit (Daikin) .....   | 31,885.96              | 1,060.61             |
|                         | 23 81 26  | 16-0079 | EA  | 12 Ton Heat Pump Outdoor Unit (Daikin) .....   | 39,767.27              | 1,095.97             |
|                         | 23 81 26  | 16-0080 | EA  | 14 Ton Heat Pump Outdoor Unit (Daikin) .....   | 53,207.82              | 1,166.67             |
|                         | 23 81 26  | 16-0081 | EA  | 16 Ton Heat Pump Outdoor Unit (Daikin) .....   | 56,233.89              | 1,202.02             |
|                         | 23 81 26  | 16-0082 | EA  | 18 Ton Heat Pump Outdoor Unit (Daikin) .....   | 59,119.58              | 1,272.73             |
|                         | 23 81 26  | 16-0083 | EA  | 20 Ton Heat Pump Outdoor Unit (Daikin) .....   | 62,216.36              | 1,343.44             |
|                         | 23 81 26  | 16-0084 | EA  | 22 Ton Heat Pump Outdoor Unit (Daikin) .....   | 80,512.15              | 1,414.15             |
|                         | 23 81 26  | 16-0085 | EA  | 24 Ton Heat Pump Outdoor Unit (Daikin) .....   | 83,608.92              | 1,484.85             |
|                         | 23 81 26  | 16-0086 | EA  | 26 Ton Heat Pump Outdoor Unit (Daikin) .....   | 86,705.70              | 1,555.57             |
|                         | 23 81 26  | 16-0087 | EA  | 28 Ton Heat Pump Outdoor Unit (Daikin) .....   | 89,591.39              | 1,626.27             |
|                         | 23 81 26  | 16-0088 | EA  | 30 Ton Heat Pump Outdoor Unit (Daikin) .....   | 92,688.16              | 1,696.98             |
| <b>23 81 26 16-0089</b> | <b>Heat Recovery Heat Pump Outdoor Units (23 81 26 16-0074)</b> |         |     |  |                        |                      |
|                         | 23 81 26  | 16-0090 | EA  | 6 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                    | 32,724.64              | 965.15               |
|                         | 23 81 26  | 16-0091 | EA  | 8 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                    | 35,719.09              | 1,148.99             |
|                         | 23 81 26  | 16-0092 | EA  | 10 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 39,277.44              | 1,378.80             |
|                         | 23 81 26  | 16-0093 | EA  | 12 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 49,290.94              | 1,424.75             |
|                         | 23 81 26  | 16-0094 | EA  | 14 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 66,573.67              | 1,516.67             |
|                         | 23 81 26  | 16-0095 | EA  | 16 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 71,731.93              | 1,562.64             |
|                         | 23 81 26  | 16-0096 | EA  | 18 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 74,448.94              | 1,654.55             |
|                         | 23 81 26  | 16-0097 | EA  | 20 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 77,165.94              | 1,746.47             |
|                         | 23 81 26  | 16-0098 | EA  | 22 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 101,520.43             | 1,838.39             |
|                         | 23 81 26  | 16-0099 | EA  | 24 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 104,237.45             | 1,930.31             |
|                         | 23 81 26  | 16-0100 | EA  | 26 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 109,487.62             | 2,022.23             |
|                         | 23 81 26  | 16-0101 | EA  | 28 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....                                   | 112,204.63             | 2,114.15             |
| <b>23 81 26 16-0102</b> | <b>Indoor Units (23 81 26 16-0074)</b>                          |         |     |  |                        |                      |
|                         | 23 81 26  | 16-0103 | EA  | 7.5 MBH Cooling, 8.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....                     | 2,964.39               | 247.48               |
|                         | 23 81 26  | 16-0104 | EA  | 9.5 MBH Cooling, 10.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....                    | 3,096.04               | 254.55               |
|                         | 23 81 26  | 16-0105 | EA  | 12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....                     | 3,497.62               | 265.15               |
|                         | 23 81 26  | 16-0106 | EA  | 18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Daikin) .....                       | 3,929.79               | 335.86               |
|                         | 23 81 26  | 16-0107 | EA  | 24 MBH Cooling, 26.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....                     | 4,322.14               | 406.56               |
|                         | 23 81 26  | 16-0108 | EA  | 7.5 MBH Cooling, 8.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....         | 4,320.31               | 272.22               |
|                         | 23 81 26  | 16-0109 | EA  | 9.5 MBH Cooling, 10.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....        | 4,465.30               | 280.00               |
|                         | 23 81 26  | 16-0110 | EA  | 12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....         | 4,689.78               | 155.56               |
|                         | 23 81 26  | 16-0111 | EA  | 18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....           | 4,994.70               | 369.44               |
|                         | 23 81 26  | 16-0112 | EA  | 24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....           | 5,920.96               | 447.23               |
|                         | 23 81 26  | 16-0113 | EA  | 30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....           | 6,765.45               | 486.12               |
|                         | 23 81 26  | 16-0114 | EA  | 36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....           | 7,233.10               | 534.72               |
|                         | 23 81 26  | 16-0115 | EA  | 48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....           | 7,489.41               | 588.20               |
|                         | 23 81 26  | 16-0116 | EA  | 7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....  | 4,826.14               | 272.22               |
|                         | 23 81 26  | 16-0117 | EA  | 9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) ..... | 4,941.27               | 280.00               |
|                         | 23 81 26  | 16-0118 | EA  | 12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....    | 5,253.37               | 291.67               |
|                         | 23 81 26  | 16-0119 | EA  | 18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....    | 5,618.04               | 369.44               |
| <b>23 81 26 16-0120</b> | <b>Branch Selector Boxes (23 81 26 16-0074)</b>                 |         |     |  |                        |                      |
|                         | 23 81 26  | 16-0121 | EA  | 144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin) .....                             | 14,568.79              | 318.18               |
|                         | 23 81 26  | 16-0122 | EA  | 216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin) .....                             | 21,536.04              | 424.25               |
|                         | 23 81 26  | 16-0123 | EA  | 36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin) .....                             | 2,891.68               | 141.41               |
|                         | 23 81 26  | 16-0124 | EA  | 60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin) .....                             | 3,903.37               | 212.12               |
|                         | 23 81 26  | 16-0125 | EA  | 96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin) .....                             | 4,858.31               | 318.18               |
| <b>23 81 26 16-0126</b> | <b>Controllers (23 81 26 16-0074)</b>                           |         |     |  |                        |                      |
|                         | 23 81 26  | 16-0127 | EA  | Up To 16 Units, Navigation Controller (Daikin) .....   | 930.06                 | 28.28                |
|                         | 23 81 26  | 16-0128 | EA  | Individual Zone Controller (Daikin) .....  | 683.12                 | 28.28                |
|                         | 23 81 26  | 16-0129 | EA  | Up To 16 Groups, Unified ON/OFF Controller (Daikin) .....                                    | 1,286.54               | 28.28                |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 23 81 26 16-0130   | EA  |     | Up To 64 Units, Multizone Controller (Daikin).....                                 | 1,786.40               | 28.28                |
| 23 81 26 16-0131   | EA  |     | I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin)..... | 16,736.91              | 339.39               |
| 23 81 26 16-0132   | EA  |     | I-Touch Manager D3net Plus Adapter (Daikin).....                                   | 3,070.91               | 28.28                |
| 23 81 26 16-0133   | EA  |     | 24 Volt AC, Wired Thermostat For Split A/C Systems (Daikin).....                   | 680.48                 | 49.92                |
| <b>23 81 26 16-0134</b>  |     |     | <b>Energy Recovery Units <small>(23 81 26 16-0074)</small></b>                     |                        |                      |
| 23 81 26 16-0135   | EA  |     | 300 CFM Energy Recovery Unit (Daikin).....   | 5,051.44               | 176.77               |
| 23 81 26 16-0136   | EA  |     | 470 CFM Energy Recovery Unit (Daikin).....   | 6,543.28               | 183.84               |
| 23 81 26 16-0137   | EA  |     | 600 CFM Energy Recovery Unit (Daikin).....   | 7,824.00               | 190.91               |
| 23 81 26 16-0138   | EA  |     | 1,200 CFM Energy Recovery Unit (Daikin).....                                       | 14,567.78              | 212.12               |
| <b>23 81 43</b>  |     |     | <b>Air-Source Unitary Heat Pumps <small>(23 81)</small></b>                        |                        |                      |
| <b>23 81 43 00-0001</b>  |     |     | <b>Single Package Thru-Wall Heat Pumps <small>(23 81 43)</small></b>               |                        |                      |
| <p>Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel. See CSI section 01 22 23 00-0867 for crane lifting equipment.</p> |     |     |  |                        |                      |
| 23 81 43 00-0002   | EA  |     | 1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....          | 2,159.37               | 230.10               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 284.52                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -51.44                 |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -85.73                 |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -120.02                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 265.52                 |                      |
| 23 81 43 00-0003   | EA  |     | 1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....            | 2,380.54               | 245.44               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 314.25                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -57.15                 |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -95.25                 |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -133.35                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 290.34                 |                      |
| 23 81 43 00-0004   | EA  |     | 1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....        | 3,980.74               | 245.44               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 538.28                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -105.16                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -175.26                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -245.36                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 434.35                 |                      |
| 23 81 43 00-0005   | EA  |     | 2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....            | 4,354.32               | 245.44               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 589.36                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -115.44                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -192.41                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -269.37                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 242.00                 |                      |
| 23 81 43 00-0006   | EA  |     | 2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....        | 4,918.41               | 260.78               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 667.10                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -131.45                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -219.08                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -306.71                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 265.67                 |                      |
| 23 81 43 00-0007   | EA  |     | 3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....            | 5,147.01               | 276.12               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 699.11                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -138.30                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -230.51                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -322.71                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 733.54                 |                      |
| 23 81 43 00-0008   | EA  |     | 3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....        | 5,787.29               | 276.12               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 787.52                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -156.59                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -260.99                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -365.38                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 820.46                 |                      |
| 23 81 43 00-0009   | EA  |     | 4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....            | 6,374.13               | 291.46               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 869.06                 |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -173.74                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -289.56                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -405.38                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 898.59                 |                      |
| 23 81 43 00-0010   | EA  |     | 5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....            | 7,342.47               | 337.49               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 1,000.95               |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -200.03                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -333.38                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -466.73                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 1,035.52               |                      |
| 23 81 43 00-0011   | EA  |     | 7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....        | 13,347.95              | 398.84               |
|  |     |     | <i>For Unit Economizer, Add</i>  | 1,836.19               |                      |
|  |     |     | <i>For &gt;35 To 70, Deduct</i>  | -376.05                |                      |
|  |     |     | <i>For &gt;70 To 100, Deduct</i>   | -626.75                |                      |
|  |     |     | <i>For &gt;100, Deduct</i>   | -877.44                |                      |
|  |     |     | <i>For Low Ambient Protection, 0 Degree F, Add</i>                                 | 1,832.80               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....      | 17,182.21                 | 506.22                  |
| <i>For Unit Economizer, Add</i>   | 2,364.40                  |                         |
| <i>For &gt;35 To 70, Deduct</i>   | -484.63                   |                         |
| <i>For &gt;70 To 100, Deduct</i>  | -807.72                   |                         |
| <i>For &gt;100, Deduct</i>  | -1,130.81                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 418.49                    |                         |
| 23 81 43 00-0013 EA 12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat ..... | 20,947.19                 | 567.58                  |
| <i>For Unit Economizer, Add</i>   | 2,887.20                  |                         |
| <i>For &gt;35 To 70, Deduct</i>   | -594.36                   |                         |
| <i>For &gt;70 To 100, Deduct</i>  | -990.60                   |                         |
| <i>For &gt;100, Deduct</i>  | -1,386.84                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 481.91                    |                         |
| 23 81 43 00-0014 EA 15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....      | 25,809.66                 | 644.28                  |
| <i>For Unit Economizer, Add</i>   | 3,562.42                  |                         |
| <i>For &gt;35 To 70, Deduct</i>   | -736.09                   |                         |
| <i>For &gt;70 To 100, Deduct</i>  | -1,226.82                 |                         |
| <i>For &gt;100, Deduct</i>  | -1,717.55                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 563.67                    |                         |
| 23 81 43 00-0015 EA 20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....      | 34,299.05                 | 690.30                  |
| <i>For Unit Economizer, Add</i>   | 4,746.64                  |                         |
| <i>For &gt;35 To 70, Deduct</i>   | -987.55                   |                         |
| <i>For &gt;70 To 100, Deduct</i>  | -1,645.92                 |                         |
| <i>For &gt;100, Deduct</i>  | -2,304.29                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 674.34                    |                         |
| 23 81 43 00-0016 EA 25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....      | 41,279.78                 | 751.66                  |
| <i>For Unit Economizer, Add</i>   | 5,719.04                  |                         |
| <i>For &gt;35 To 70, Deduct</i>   | -1,193.29                 |                         |
| <i>For &gt;70 To 100, Deduct</i>  | -1,988.82                 |                         |
| <i>For &gt;100, Deduct</i>  | -2,784.35                 |                         |
| <i>For Low Ambient Protection, 0 Degree F, Add</i>  | 773.60                    |                         |

**23 81 43 00-0017 Single Package Vertical Wall Heat Pumps (23 81 43)**

Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0867 for crane lifting equipment.

|  |           |        |
|--|-----------|--------|
| 23 81 43 00-0018 EA 1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....          | 3,307.94  | 306.80 |
| 23 81 43 00-0019 EA 1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 3,986.53  | 337.49 |
| 23 81 43 00-0020 EA 1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 5,111.48  | 352.82 |
| 23 81 43 00-0021 EA 2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 5,849.56  | 383.50 |
| 23 81 43 00-0022 EA 2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 7,296.90  | 444.87 |
| 23 81 43 00-0023 EA 3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 7,807.42  | 506.22 |
| 23 81 43 00-0024 EA 3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat ..... | 8,492.62  | 567.58 |
| 23 81 43 00-0025 EA 4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 9,551.21  | 628.94 |
| 23 81 43 00-0026 EA 5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....     | 10,790.14 | 751.66 |

**23 81 43 00-0027 Heat Pump, Room Air-Conditioners (23 81 43)**

Note: Includes throwaway filters and supplemental heat.

**23 81 43 00-0028 Heat Pump, Window Unit, Room Air-Conditioners (23 81 43 00-0027)**

**23 81 43 00-0029 Heat Pump, Window Unit, Room Air-Conditioners (Friedrich) (23 81 43 00-0028)**

|  |          |        |
|--|----------|--------|
| 23 81 43 00-0030 EA 10,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10C) ..... | 2,545.92 | 148.49 |
| <i>For &gt;10 To 50, Deduct</i>  | -112.45  |        |
| <i>For &gt;50 To 75, Deduct</i>  | -157.43  |        |
| <i>For &gt;75 To 100, Deduct</i>   | -224.90  |        |
| <i>For &gt;100, Deduct</i>   | -269.87  |        |
| 23 81 43 00-0031 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33C) ..... | 2,870.03 | 148.49 |
| <i>For &gt;10 To 50, Deduct</i>  | -128.65  |        |
| <i>For &gt;50 To 75, Deduct</i>  | -180.11  |        |
| <i>For &gt;75 To 100, Deduct</i>   | -257.31  |        |
| <i>For &gt;100, Deduct</i>   | -308.77  |        |
| 23 81 43 00-0032 EA 17,500 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich KHM18A34A)..... | 3,356.19 | 148.49 |
| <i>For &gt;10 To 50, Deduct</i>  | -152.96  |        |
| <i>For &gt;50 To 75, Deduct</i>  | -214.15  |        |
| <i>For &gt;75 To 100, Deduct</i>   | -305.92  |        |
| <i>For &gt;100, Deduct</i>   | -367.11  |        |
| 23 81 43 00-0033 EA 24,000 BTU, 10.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35D).....  | 3,896.37 | 148.49 |
| <i>For &gt;10 To 50, Deduct</i>  | -179.97  |        |
| <i>For &gt;50 To 75, Deduct</i>  | -251.96  |        |
| <i>For &gt;75 To 100, Deduct</i>   | -359.94  |        |
| <i>For &gt;100, Deduct</i>   | -431.93  |        |

**23 81 43 00-0034 Heat Pump, Through-The-Wall, Room Air-Conditioners (23 81 43 00-0027)**

Note: Base unit excludes wall sleeve.

**23 81 43 00-0035 Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 43 00-0034)**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 81 43 00-0036 EA 9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D).....  | 2,551.10                  | 106.06                  |
| For >10 To 50, Deduct  | -116.95                   |                         |
| For >50 To 75, Deduct  | -163.73                   |                         |
| For >75 To 100, Deduct   | -233.90                   |                         |
| For >100, Deduct   | -280.68                   |                         |
| For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add   | 305.54                    |                         |
| 23 81 43 00-0037 EA 11,300 BTU, 9.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12D33A)..... | 2,551.10                  | 106.06                  |
| For >10 To 50, Deduct  | -116.95                   |                         |
| For >50 To 75, Deduct  | -163.73                   |                         |
| For >75 To 100, Deduct   | -233.90                   |                         |
| For >100, Deduct   | -280.68                   |                         |
| For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add   | 305.54                    |                         |

**23 81 46 Water-Source Unitary Heat Pumps (23 81)****23 81 46 00-0001 Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pumps (23 81 46)**

Note: R410a. Includes rubber isolator hanger brackets. McQuay CCW Series.

|   |          |        |
|---|----------|--------|
| 23 81 46 00-0002 EA 7 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....    | 3,578.69 | 306.36 |
| 23 81 46 00-0003 EA 9 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....    | 3,687.65 | 306.36 |
| 23 81 46 00-0004 EA 12 MBH, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....   | 4,254.96 | 336.99 |
| 23 81 46 00-0005 EA 19 MBH, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....   | 4,488.13 | 367.63 |
| 23 81 46 00-0006 EA 24 MBH, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....   | 4,815.74 | 398.26 |
| 23 81 46 00-0007 EA 30 MBH, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump..... | 5,651.79 | 428.90 |
| 23 81 46 00-0008 EA 36 MBH, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump..... | 5,785.70 | 459.53 |
| 23 81 46 00-0009 EA 42 MBH, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump..... | 6,307.00 | 490.17 |
| 23 81 46 00-0010 EA 48 MBH, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump..... | 6,731.45 | 520.81 |
| 23 81 46 00-0011 EA 60 MBH, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump..... | 6,853.25 | 551.44 |

**23 81 49 Split System Heat Pumps (23 81)****23 81 49 00-0001 Air Cooled, Outdoor Section (23 81 49)**

Note: Includes 20' length of piping (liquid line and insulated suction line). Excludes additional piping.

|   |          |        |
|---|----------|--------|
| 23 81 49 00-0002 EA 1.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....                             | 4,270.40 | 455.60 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 781.19   |        |
| For Winterstart Control, Add  | 212.23   |        |
| For 15 SEER, Add  | 644.42   |        |
| For 16 SEER, Add  | 1,038.23 |        |
| For 18 SEER, Add  | 1,575.24 |        |
| 23 81 49 00-0003 EA 2 Ton, 14 SEER, Outdoor Heat Pump Unit.....                               | 4,416.89 | 506.22 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 812.23   |        |
| For Winterstart Control, Add  | 222.70   |        |
| For 15 SEER, Add  | 656.98   |        |
| For 16 SEER, Add  | 1,058.47 |        |
| For 18 SEER, Add  | 1,605.95 |        |
| 23 81 49 00-0004 EA 2.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....                             | 4,837.94 | 587.53 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 893.63   |        |
| For Winterstart Control, Add  | 246.90   |        |
| For 15 SEER, Add  | 710.68   |        |
| For 16 SEER, Add  | 1,144.98 |        |
| For 18 SEER, Add  | 1,737.22 |        |
| 23 81 49 00-0005 EA 3 Ton, 14 SEER, Outdoor Heat Pump Unit.....                               | 5,293.35 | 674.96 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 768.16   |        |
| For Winterstart Control, Add  | 273.10   |        |
| For 15 SEER, Add  | 768.71   |        |
| For 16 SEER, Add  | 1,238.48 |        |
| For 18 SEER, Add  | 1,879.08 |        |
| 23 81 49 00-0006 EA 3.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....                             | 5,462.53 | 701.04 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 793.56   |        |
| For Winterstart Control, Add  | 282.22   |        |
| For 15 SEER, Add  | 792.10   |        |
| For 16 SEER, Add  | 1,276.16 |        |
| For 18 SEER, Add  | 1,936.24 |        |
| 23 81 49 00-0007 EA 4 Ton, 14 SEER, Outdoor Heat Pump Unit.....                               | 6,061.12 | 805.36 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 876.90   |        |
| For Winterstart Control, Add  | 311.47   |        |
| For 15 SEER, Add  | 883.91   |        |
| For 16 SEER, Add  | 1,424.08 |        |
| For 18 SEER, Add  | 2,160.67 |        |
| 23 81 49 00-0008 EA 5 Ton, 14 SEER, Outdoor Heat Pump Unit.....                               | 6,890.75 | 885.89 |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. |          |        |
| For Low Ambient Protection, 0 Degree F, Add   | 597.65   |        |
| For Winterstart Control, Add  | 182.81   |        |
| For 15 SEER, Add  | 1,012.54 |        |
| For 16 SEER, Add  | 1,631.31 |        |
| For 18 SEER, Add  | 2,475.09 |        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 81 49 00-0009 EA 7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit.....  | 7,310.49                  | 989.91                  |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.   |                           |                         |
| For Low Ambient Protection, 0 Degree F, Add   | 648.35                    |                         |
| For Winterstart Control, Add  | 200.38                    |                         |
| 23 81 49 00-0010 EA 10 Ton, 11.1 EER, Outdoor Heat Pump Unit.....   | 10,046.92                 | 1,187.88                |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.   |                           |                         |
| For Low Ambient Protection, 0 Degree F, Add   | 505.53                    |                         |
| For Winterstart Control, Add  | 253.44                    |                         |
| 23 81 49 00-0011 EA 15 Ton, 10.9 EER, Outdoor Heat Pump Unit.....   | 13,148.30                 | 1,385.87                |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.   |                           |                         |
| For Low Ambient Protection, 0 Degree F, Add   | 574.37                    |                         |
| For Winterstart Control, Add  | 309.24                    |                         |
| 23 81 49 00-0012 EA 20 Ton, 10.3 EER, Outdoor Heat Pump Unit.....   | 23,260.67                 | 1,484.85                |
| Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.   |                           |                         |
| For Low Ambient Protection, 0 Degree F, Add   | 610.80                    |                         |
| For Winterstart Control, Add  | 423.48                    |                         |
| <b>23 81 49 00-0013 Indoor Section, Horizontal Upflow (23 81 49)</b>  |                           |                         |
| Note: Electric heat. Includes throwaway filters.  |                           |                         |
| 23 81 49 00-0014 EA 2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....                  | 1,279.85                  | 151.31                  |
| For Additional 5 KW Electric Heat, Add  | 112.78                    |                         |
| 23 81 49 00-0015 EA 2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....              | 1,421.81                  | 188.50                  |
| For Additional 5 KW Electric Heat, Add  | 123.33                    |                         |
| 23 81 49 00-0016 EA 3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....                  | 1,500.88                  | 227.68                  |
| For Additional 5 KW Electric Heat, Add  | 127.28                    |                         |
| 23 81 49 00-0017 EA 3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....              | 2,001.66                  | 266.57                  |
| For Additional 5 KW Electric Heat, Add  | 173.48                    |                         |
| 23 81 49 00-0018 EA 4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....                 | 2,069.79                  | 300.51                  |
| For Additional 5 KW Electric Heat, Add  | 176.89                    |                         |
| 23 81 49 00-0019 EA 5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....                 | 2,301.73                  | 345.05                  |
| For Additional 5 KW Electric Heat, Add  | 195.68                    |                         |
| 23 81 49 00-0020 EA 7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....             | 4,822.27                  | 565.66                  |
| For Additional 5 KW Electric Heat, Add  | 425.66                    |                         |
| 23 81 49 00-0021 EA 10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat.....                | 7,006.07                  | 636.36                  |
| For Additional 5 KW Electric Heat, Add  | 636.98                    |                         |
| 23 81 49 00-0022 EA 15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat.....                 | 9,731.52                  | 707.07                  |
| For Additional 5 KW Electric Heat, Add  | 902.44                    |                         |
| 23 81 49 00-0023 EA 20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat.....                | 11,084.12                 | 848.49                  |
| For Additional 5 KW Electric Heat, Add  | 1,023.55                  |                         |
| <b>23 81 49 00-0024 Ductless Split System Heat Pumps (23 81 49)</b>   |                           |                         |
| Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 13-0030 for accessories.         |                           |                         |
| <b>23 81 49 00-0025 Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0024)</b>  |                           |                         |
| 23 81 49 00-0026 EA 9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps.....                  | 2,566.88                  | 466.67                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| 23 81 49 00-0027 EA 11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps.....                 | 2,837.22                  | 509.10                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| 23 81 49 00-0028 EA 17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps.....                 | 3,439.17                  | 565.66                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| 23 81 49 00-0029 EA 24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps.....                 | 3,948.66                  | 622.22                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| 23 81 49 00-0030 EA 25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps.....               | 5,496.82                  | 678.79                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| 23 81 49 00-0031 EA 29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps.....                 | 6,327.92                  | 707.07                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| 23 81 49 00-0032 EA 31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps.....               | 6,930.43                  | 753.74                  |
| Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   |                           |                         |
| <b>23 81 49 00-0033 Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0024)</b>                              |                           |                         |
| Note: Use this section only when matching indoor and outdoor capacity units are not used.   |                           |                         |
| 23 81 49 00-0034 EA 7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....                | 1,079.93                  | 226.27                  |
| Note: Includes indoor unit and wireless thermostat.   |                           |                         |
| 23 81 49 00-0035 EA 9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....               | 1,142.22                  | 240.41                  |
| Note: Includes indoor unit and wireless thermostat.   |                           |                         |
| 23 81 49 00-0036 EA 11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....              | 1,205.41                  | 254.55                  |
| Note: Includes indoor unit and wireless thermostat.   |                           |                         |
| 23 81 49 00-0037 EA 17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....              | 1,362.85                  | 268.69                  |
| Note: Includes indoor unit and wireless thermostat.   |                           |                         |
| 23 81 49 00-0038 EA 24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....              | 1,452.06                  | 282.83                  |
| Note: Includes indoor unit and wireless thermostat.   |                           |                         |
| 23 81 49 00-0039 EA 19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps..... | 3,085.51                  | 339.39                  |
| Note: Includes outdoor unit and refrigerant charge.   |                           |                         |
| 23 81 49 00-0040 EA 23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps..... | 3,641.00                  | 367.68                  |
| Note: Includes outdoor unit and refrigerant charge.   |                           |                         |
| 23 81 49 00-0041 EA 30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps..... | 5,800.72                  | 395.96                  |
| Note: Includes outdoor unit and refrigerant charge.   |                           |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

| MINOR              | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--------------------|-----|-----|--|------------------------|----------------------|
| 23 81 49 00-0042   |     |     | <b>Suspended Ceiling Mounted Ductless Split System Heat Pumps</b> (23 81 49 00-0024)<br>Note: Excludes hangers.  |                        |                      |
| 23 81 49 00-0043   | EA  |     | 24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge. | 5,850.53               | 678.79               |
| 23 81 49 00-0044   | EA  |     | 31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge. | 7,103.98               | 810.30               |
| 23 81 49 00-0045   | EA  |     | 39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps .....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge. | 8,505.64               | 848.49               |
| 23 81 49 00-0046   |     |     | <b>Recessed Ceiling Mounted Ductless Split System Heat Pumps</b> (23 81 49 00-0024)<br>Note: Excludes hangers.   |                        |                      |
| 23 81 49 00-0047   | EA  |     | 11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.     | 3,932.03               | 565.66               |
| 23 81 49 00-0048   | EA  |     | 17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.     | 4,454.08               | 622.22               |
| 23 81 49 00-0049   | EA  |     | 24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   | 5,857.29               | 735.36               |
| 23 81 49 00-0050   | EA  |     | 32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   | 6,744.89               | 810.30               |
| 23 81 49 00-0051   | EA  |     | 39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....<br>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.   | 8,326.10               | 848.49               |
| <b>23 82</b>       |     |     | <b>Convection Heating and Cooling Units</b> (23 80)  |                        |                      |
| <b>23 82 16</b>    |     |     | <b>Air Coils</b> (23 82)   |                        |                      |
| <b>23 82 16 11</b> |     |     | <b>Hydronic Air Coils</b> (23 82 16)   |                        |                      |
| 23 82 16 11-0001   |     |     | <b>Chilled Water Cooling Coils</b> (23 82 16 11)<br>Note: Flanged construction, 16 gauge galvanized steel casing.  |                        |                      |
| 23 82 16 11-0002   |     |     | <b>2 Row Chilled Water Cooling Coils</b> (23 82 16 11-0001)  |                        |                      |
| 23 82 16 11-0003   | EA  |     | 12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 1,925.37               | 76.59                |
| 23 82 16 11-0004   | EA  |     | 12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 3,187.01               | 104.16               |
| 23 82 16 11-0005   | EA  |     | 24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 4,299.30               | 163.90               |
| 23 82 16 11-0006   | EA  |     | 24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 5,209.49               | 234.37               |
| 23 82 16 11-0007   | EA  |     | 30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 5,545.76               | 287.98               |
| 23 82 16 11-0008   | EA  |     | 30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 6,216.97               | 349.25               |
| 23 82 16 11-0009   | EA  |     | 30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 6,674.29               | 404.39               |
| 23 82 16 11-0010   | EA  |     | 30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 7,235.26               | 714.42               |
| 23 82 16 11-0011   | EA  |     | 34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 4,427.85               | 271.59               |
| 23 82 16 11-0012   | EA  |     | 34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 5,721.46               | 462.45               |
| 23 82 16 11-0013   | EA  |     | 34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 6,405.92               | 574.42               |
| 23 82 16 11-0014   | EA  |     | 34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 7,062.60               | 693.74               |
| 23 82 16 11-0015   | EA  |     | 34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 7,728.97               | 807.86               |
| 23 82 16 11-0016   | SF  |     | >20 SF, Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 389.70                 | 40.73                |
| 23 82 16 11-0017   |     |     | <b>4 Row Chilled Water Cooling Coils</b> (23 82 16 11-0001)  |                        |                      |
| 23 82 16 11-0018   | EA  |     | 12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 2,394.67               | 159.30               |
| 23 82 16 11-0019   | EA  |     | 12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 3,847.32               | 229.77               |
| 23 82 16 11-0020   | EA  |     | 24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 5,262.92               | 382.95               |
| 23 82 16 11-0021   | EA  |     | 24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 6,461.90               | 568.29               |
| 23 82 16 11-0022   | EA  |     | 30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 7,480.81               | 696.96               |
| 23 82 16 11-0023   | EA  |     | 30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 8,897.22               | 851.67               |
| 23 82 16 11-0024   | EA  |     | 30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 9,929.46               | 1,021.70             |
| 23 82 16 11-0025   | EA  |     | 30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....  | 9,755.82               | 1,189.27             |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 82 16 11-0026 EA 34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 6,076.74                  | 513.29                  |
| 23 82 16 11-0027 EA 34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 7,779.57                  | 772.01                  |
| 23 82 16 11-0028 EA 34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 8,642.31                  | 957.36                  |
| 23 82 16 11-0029 EA 34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 9,684.59                  | 1,153.44                |
| 23 82 16 11-0030 EA 34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 10,643.92                 | 1,348.42                |
| <b>23 82 16 11-0031 6 Row Chilled Water Cooling Coils (23 82 16 11-0001)</b>   |                           |                         |
| 23 82 16 11-0032 EA 12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 3,378.06                  | 202.20                  |
| 23 82 16 11-0033 EA 12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 3,990.76                  | 300.23                  |
| 23 82 16 11-0034 EA 24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 5,449.03                  | 511.62                  |
| 23 82 16 11-0035 EA 24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 7,412.51                  | 765.89                  |
| 23 82 16 11-0036 EA 30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 9,732.64                  | 957.36                  |
| 23 82 16 11-0037 EA 30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 11,073.89                 | 1,177.94                |
| 23 82 16 11-0038 EA 30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 12,886.06                 | 1,392.39                |
| 23 82 16 11-0039 EA 30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 12,325.08                 | 1,622.62                |
| 23 82 16 11-0040 EA 34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 7,618.17                  | 701.41                  |
| 23 82 16 11-0041 EA 34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 9,778.43                  | 1,052.03                |
| 23 82 16 11-0042 EA 34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 11,032.35                 | 1,317.33                |
| 23 82 16 11-0043 EA 34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 12,245.03                 | 1,582.49                |
| 23 82 16 11-0044 EA 34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 13,463.18                 | 1,841.05                |
| <b>23 82 16 11-0045 8 Row Chilled Water Cooling Coils (23 82 16 11-0001)</b>   |                           |                         |
| 23 82 16 11-0046 EA 12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 4,222.27                  | 243.56                  |
| 23 82 16 11-0047 EA 12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 5,175.05                  | 373.75                  |
| 23 82 16 11-0048 EA 24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 7,731.59                  | 666.32                  |
| 23 82 16 11-0049 EA 24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 10,275.39                 | 1,021.70                |
| 23 82 16 11-0050 EA 30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 12,342.65                 | 1,277.51                |
| 23 82 16 11-0051 EA 30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 14,340.72                 | 1,531.78                |
| 23 82 16 11-0052 EA 30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 16,479.93                 | 1,701.81                |
| 23 82 16 11-0053 EA 30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 14,162.63                 | 1,974.01                |
| 23 82 16 11-0054 EA 34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 8,701.99                  | 854.74                  |
| 23 82 16 11-0055 EA 34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 11,203.74                 | 1,285.01                |
| 23 82 16 11-0056 EA 34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 12,658.13                 | 1,600.71                |
| 23 82 16 11-0057 EA 34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 14,044.66                 | 1,914.73                |
| 23 82 16 11-0058 EA 34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted | 15,508.98                 | 2,252.63                |
| <b>23 82 16 11-0059 Hot Water Heating Coils (23 82 16 11)</b><br>Note: Flanged construction.   |                           |                         |
| <b>23 82 16 11-0060 1 Row Hot Water Heating Coils (23 82 16 11-0059)</b>   |                           |                         |
| 23 82 16 11-0061 EA 12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction   | 1,560.93                  | 206.79                  |
| For 10 Fins Per Inch, Add  | 22.94                     |                         |
| For 12 Fins Per Inch, Add  | 57.35                     |                         |
| For 230 PSIG Heavy Duty, Add   | 353.59                    |                         |
| 23 82 16 11-0062 EA 12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction   | 2,300.74                  | 264.99                  |
| For 10 Fins Per Inch, Add  | 35.45                     |                         |
| For 12 Fins Per Inch, Add  | 88.63                     |                         |
| For 230 PSIG Heavy Duty, Add   | 512.97                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 23 82 16 11-0063        | EA  |     | 24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 2,814.76               | 364.56               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 41.71                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 104.27                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 635.89                 |                      |
| 23 82 16 11-0064        | EA  |     | 24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 3,367.20               | 511.62               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 46.92                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 117.30                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 775.56                 |                      |
| 23 82 16 11-0065        | EA  |     | 30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 3,832.10               | 612.71               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 52.13                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 130.33                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 888.96                 |                      |
| 23 82 16 11-0066        | EA  |     | 30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 4,503.39               | 765.89               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 59.43                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 148.58                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,053.86               |                      |
| 23 82 16 11-0067        | EA  |     | 30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 5,038.53               | 850.14               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 66.73                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 166.83                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,177.90               |                      |
| 23 82 16 11-0068        | EA  |     | 30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 6,213.40               | 988.46               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 84.58                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 211.46                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,441.10               |                      |
| 23 82 16 11-0069        | EA  |     | 34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 2,682.67               | 428.29               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 36.52                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 91.30                  |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 622.20                 |                      |
| 23 82 16 11-0070        | EA  |     | 34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 4,023.98               | 642.58               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 54.78                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 136.95                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 933.30                 |                      |
| 23 82 16 11-0071        | EA  |     | 34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 6,052.30               | 971.92               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 82.17                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 205.42                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,404.85               |                      |
| 23 82 16 11-0072        | EA  |     | 34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....      | 7,045.74               | 1,126.32             |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 95.86                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 239.66                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,634.41               |                      |
| 23 82 16 11-0073        | SF  |     | >15 SF Hot Water Heating Coil, 1 Row, Flanged Construction.....        | 323.25                 | 56.68                |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 4.20                   |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 10.49                  |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 75.99                  |                      |
| <b>23 82 16 11-0074</b> |     |     | <b>2 Row Hot Water Heating Coils</b> <small>(23 82 16 11-0059)</small> |                        |                      |
| 23 82 16 11-0075        | EA  |     | 12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 2,491.67               | 255.80               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 39.62                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 99.05                  |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 549.39                 |                      |
| 23 82 16 11-0076        | EA  |     | 12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 2,714.00               | 340.05               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 40.66                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 101.66                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 610.88                 |                      |
| 23 82 16 11-0077        | EA  |     | 24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 3,680.00               | 511.62               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 53.18                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 132.94                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 838.12                 |                      |
| 23 82 16 11-0078        | EA  |     | 24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 4,482.59               | 729.13               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 60.48                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 151.19                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,042.40               |                      |
| 23 82 16 11-0079        | EA  |     | 30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 5,190.77               | 900.69               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 67.77                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 169.43                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,218.36               |                      |
| 23 82 16 11-0080        | EA  |     | 30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 5,576.94               | 1,093.69             |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 67.77                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 169.43                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,334.21               |                      |
| 23 82 16 11-0081        | EA  |     | 30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 6,306.59               | 1,277.51             |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 75.07                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 187.68                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,516.62               |                      |
| 23 82 16 11-0082        | EA  |     | 30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 7,726.46               | 1,484.30             |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 95.16                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 237.89                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 1,842.15               |                      |
| 23 82 16 11-0083        | EA  |     | 34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction.....      | 3,334.94               | 640.44               |
|                         |     |     | <i>For 10 Fins Per Inch, Add</i>                                       | 41.08                  |                      |
|                         |     |     | <i>For 12 Fins Per Inch, Add</i>                                       | 102.71                 |                      |
|                         |     |     | <i>For 230 PSIG Heavy Duty, Add</i>                                    | 795.06                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 23 82 16 11-0084 EA 34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i><br><i>For 230 PSIG Heavy Duty, Add</i>    | 5,005.63<br>61.63<br>154.06<br>1,193.56  | 962.12                  |
| 23 82 16 11-0085 EA 34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i><br><i>For 230 PSIG Heavy Duty, Add</i>    | 7,523.02<br>92.44<br>231.10<br>1,794.71  | 1,450.59                |
| 23 82 16 11-0086 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i><br><i>For 230 PSIG Heavy Duty, Add</i>    | 8,781.18<br>107.85<br>269.61<br>2,095.13 | 1,694.45                |
| <b>23 82 16 11-0087 Hot Water Preheat Coils For Multi-Zone Air Handling Units</b> <small>(23 82 16 11)</small><br>Note: 2 Row coils. Coils are sized by air handling unit capacity.                     |  |                         |
| 23 82 16 11-0088 EA 3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....  | 2,019.58                                 | 194.54                  |
| 23 82 16 11-0089 EA 4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....  | 2,561.77                                 | 193.01                  |
| 23 82 16 11-0090 EA 5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....  | 3,130.15                                 | 206.79                  |
| 23 82 16 11-0091 EA 6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....  | 3,630.67                                 | 225.17                  |
| 23 82 16 11-0092 EA 7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....  | 3,651.46                                 | 235.89                  |
| 23 82 16 11-0093 EA 9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....  | 4,404.14                                 | 248.15                  |
| 23 82 16 11-0094 EA 11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 4,571.29                                 | 278.79                  |
| 23 82 16 11-0095 EA 13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 5,056.57                                 | 312.48                  |
| 23 82 16 11-0096 EA 16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 5,699.90                                 | 373.75                  |
| 23 82 16 11-0097 EA 19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 6,207.42                                 | 392.14                  |
| 23 82 16 11-0098 EA 22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 7,918.15                                 | 415.12                  |
| 23 82 16 11-0099 EA 27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 10,101.62                                | 568.29                  |
| 23 82 16 11-0100 EA 34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 12,684.66                                | 696.96                  |
| 23 82 16 11-0101 EA 40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 14,742.82                                | 729.13                  |
| 23 82 16 11-0102 EA 47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....   | 17,315.98                                | 850.14                  |
| <b>23 82 16 12 Steam Air Coils</b> <small>(23 82 16)</small>  |  |                         |
| <b>23 82 16 12-0001 Steam Heating Coils</b> <small>(23 82 16 12)</small><br>Note: Flanged construction.   |  |                         |
| 23 82 16 12-0002 EA 12" x 12" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 2,353.44<br>763.29<br>2,005.87           | 143.99                  |
| 23 82 16 12-0003 EA 12" x 24" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 2,612.64<br>863.36<br>2,261.19           | 199.13                  |
| 23 82 16 12-0004 EA 24" x 30" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 3,444.03<br>1,175.70<br>3,061.58         | 356.91                  |
| 23 82 16 12-0005 EA 24" x 48" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 4,343.37<br>1,507.25<br>3,913.81         | 511.62                  |
| 23 82 16 12-0006 EA 30" x 48" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 4,842.90<br>1,697.95<br>4,401.25         | 612.71                  |
| 23 82 16 12-0007 EA 30" x 60" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 5,444.57<br>1,939.73<br>5,014.32         | 765.89                  |
| 23 82 16 12-0008 EA 30" x 72" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 5,983.90<br>2,135.57<br>5,518.97         | 850.14                  |
| 23 82 16 12-0009 EA 30" x 84" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 7,411.67<br>2,620.34<br>6,782.53         | 992.13                  |
| 23 82 16 12-0010 EA 34" x 32" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 3,200.02<br>1,131.35<br>2,928.40         | 428.29                  |
| 23 82 16 12-0011 EA 34" x 48" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 4,800.03<br>1,697.02<br>4,392.60         | 642.58                  |
| 23 82 16 12-0012 EA 34" x 72" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 7,196.78<br>2,543.90<br>6,584.89         | 962.12                  |
| 23 82 16 12-0013 EA 34" x 84" Steam Heating Coils, 1 Row Flanged Construction.....<br><i>For 2 Row Coil, Add</i><br><i>For 4 Row Coil, Add</i>  | 8,403.81<br>2,971.67<br>7,691.67         | 1,126.32                |
| <b>23 82 16 13 Refrigerant Air Coils</b> <small>(23 82 16)</small>  |  |                         |
| <b>23 82 16 13-0001 Direct Expansion Cooling Coils</b> <small>(23 82 16 13)</small><br>Note: Flanged construction 16 gauge galvanized steel casing.   |  |                         |
| <b>23 82 16 13-0002 2 Row Direct Expansion Cooling Coils</b> <small>(23 82 16 13-0001)</small>  |  |                         |
| 23 82 16 13-0003 EA 12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 1,849.80<br>32.39<br>80.97               | 114.88                  |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 82 16 13-0004 EA 12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 3,554.74                  | 157.78                  |
| For 10 Fins Per Inch, Add   | 64.78                     |                         |
| For 12 Fins Per Inch, Add   | 161.95                    |                         |
| 23 82 16 13-0005 EA 24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 4,903.53                  | 248.15                  |
| For 10 Fins Per Inch, Add   | 88.19                     |                         |
| For 12 Fins Per Inch, Add   | 220.47                    |                         |
| 23 82 16 13-0006 EA 24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 5,923.58                  | 356.91                  |
| For 10 Fins Per Inch, Add   | 104.22                    |                         |
| For 12 Fins Per Inch, Add   | 260.56                    |                         |
| 23 82 16 13-0007 EA 30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 6,888.13                  | 436.55                  |
| For 10 Fins Per Inch, Add   | 120.26                    |                         |
| For 12 Fins Per Inch, Add   | 300.64                    |                         |
| 23 82 16 13-0008 EA 30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 7,710.60                  | 528.47                  |
| For 10 Fins Per Inch, Add   | 133.08                    |                         |
| For 12 Fins Per Inch, Add   | 332.71                    |                         |
| 23 82 16 13-0009 EA 30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 8,841.68                  | 612.71                  |
| For 10 Fins Per Inch, Add   | 152.33                    |                         |
| For 12 Fins Per Inch, Add   | 380.81                    |                         |
| 23 82 16 13-0010 EA 30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 11,082.86                 | 714.42                  |
| For 10 Fins Per Inch, Add   | 193.08                    |                         |
| For 12 Fins Per Inch, Add   | 482.70                    |                         |
| 23 82 16 13-0011 EA 34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 4,254.74                  | 271.59                  |
| For 10 Fins Per Inch, Add   | 74.23                     |                         |
| For 12 Fins Per Inch, Add   | 185.58                    |                         |
| 23 82 16 13-0012 EA 34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 5,507.68                  | 462.45                  |
| For 10 Fins Per Inch, Add   | 91.65                     |                         |
| For 12 Fins Per Inch, Add   | 229.13                    |                         |
| 23 82 16 13-0013 EA 34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 6,809.70                  | 693.74                  |
| For 10 Fins Per Inch, Add   | 108.44                    |                         |
| For 12 Fins Per Inch, Add   | 271.11                    |                         |
| 23 82 16 13-0014 EA 34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 7,456.37                  | 807.86                  |
| For 10 Fins Per Inch, Add   | 116.81                    |                         |
| For 12 Fins Per Inch, Add   | 292.03                    |                         |
| <b>23 82 16 13-0015 4 Row Direct Expansion Cooling Coils (23 82 16 13-0001)</b>   |                           |                         |
| 23 82 16 13-0016 EA 12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 3,068.99                  | 159.30                  |
| For 10 Fins Per Inch, Add   | 55.00                     |                         |
| For 12 Fins Per Inch, Add   | 137.49                    |                         |
| 23 82 16 13-0017 EA 12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 4,385.63                  | 229.77                  |
| For 10 Fins Per Inch, Add   | 78.57                     |                         |
| For 12 Fins Per Inch, Add   | 196.42                    |                         |
| 23 82 16 13-0018 EA 24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 5,977.01                  | 382.95                  |
| For 10 Fins Per Inch, Add   | 104.22                    |                         |
| For 12 Fins Per Inch, Add   | 260.56                    |                         |
| 23 82 16 13-0019 EA 24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 7,307.83                  | 568.29                  |
| For 10 Fins Per Inch, Add   | 123.46                    |                         |
| For 12 Fins Per Inch, Add   | 308.66                    |                         |
| 23 82 16 13-0020 EA 30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 8,447.59                  | 696.96                  |
| For 10 Fins Per Inch, Add   | 141.10                    |                         |
| For 12 Fins Per Inch, Add   | 352.75                    |                         |
| 23 82 16 13-0021 EA 30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 10,039.78                 | 851.67                  |
| For 10 Fins Per Inch, Add   | 166.76                    |                         |
| For 12 Fins Per Inch, Add   | 416.89                    |                         |
| 23 82 16 13-0022 EA 30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 11,181.88                 | 1,021.70                |
| For 10 Fins Per Inch, Add   | 182.79                    |                         |
| For 12 Fins Per Inch, Add   | 456.98                    |                         |
| 23 82 16 13-0023 EA 30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 10,927.28                 | 1,189.27                |
| For 10 Fins Per Inch, Add   | 170.97                    |                         |
| For 12 Fins Per Inch, Add   | 427.44                    |                         |
| 23 82 16 13-0024 EA 34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 6,878.66                  | 513.29                  |
| For 10 Fins Per Inch, Add   | 117.04                    |                         |
| For 12 Fins Per Inch, Add   | 292.60                    |                         |
| 23 82 16 13-0025 EA 34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 8,769.72                  | 772.01                  |
| For 10 Fins Per Inch, Add   | 144.51                    |                         |
| For 12 Fins Per Inch, Add   | 361.28                    |                         |
| 23 82 16 13-0026 EA 34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 13,245.02                 | 1,357.93                |
| For 10 Fins Per Inch, Add   | 210.58                    |                         |
| For 12 Fins Per Inch, Add   | 526.46                    |                         |
| 23 82 16 13-0027 EA 34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 15,165.38                 | 1,582.49                |
| For 10 Fins Per Inch, Add   | 240.01                    |                         |
| For 12 Fins Per Inch, Add   | 600.03                    |                         |
| <b>23 82 16 13-0028 6 Row Direct Expansion Cooling Coils (23 82 16 13-0001)</b>   |                           |                         |
| 23 82 16 13-0029 EA 12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 3,930.63                  | 200.66                  |
| For 10 Fins Per Inch, Add   | 70.55                     |                         |
| For 12 Fins Per Inch, Add   | 176.38                    |                         |
| 23 82 16 13-0030 EA 12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 4,529.07                  | 300.23                  |
| For 10 Fins Per Inch, Add   | 78.57                     |                         |
| For 12 Fins Per Inch, Add   | 196.42                    |                         |
| 23 82 16 13-0031 EA 24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... | 6,553.00                  | 511.62                  |
| For 10 Fins Per Inch, Add   | 110.64                    |                         |
| For 12 Fins Per Inch, Add   | 276.59                    |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Decentralized Unitary HVAC Equipment</b>              | <b>23 80</b> |
| <b>Convection Heating and Cooling Units</b>              | <b>23 82</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 23 82 16 13-0032 EA 24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 8,346.33<br>136.29<br>340.73  | 765.89                  |
| 23 82 16 13-0033 EA 30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 10,974.07<br>181.19<br>452.97 | 957.36                  |
| 23 82 16 13-0034 EA 30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 12,458.14<br>202.03<br>505.08 | 1,177.94                |
| 23 82 16 13-0035 EA 30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 14,490.03<br>234.10<br>585.25 | 1,392.39                |
| 23 82 16 13-0036 EA 30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 13,766.89<br>210.43<br>526.08 | 1,622.62                |
| 23 82 16 13-0037 EA 34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 8,605.14<br>144.05<br>360.12  | 701.41                  |
| 23 82 16 13-0038 EA 34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 10,997.06<br>177.86<br>444.65 | 1,052.03                |
| 23 82 16 13-0039 EA 34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 13,660.95<br>210.44<br>526.10 | 1,569.47                |
| 23 82 16 13-0040 EA 34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 15,016.34<br>226.68<br>566.71 | 1,841.05                |

**23 82 16 13-0041 8 Row Direct Expansion Cooling Coils** (23 82 16 13-0001)

|  |                               |          |
|--|-------------------------------|----------|
| 23 82 16 13-0042 EA 12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 4,895.69<br>88.19<br>220.47   | 242.02   |
| 23 82 16 13-0043 EA 12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 5,878.16<br>102.62<br>256.55  | 373.75   |
| 23 82 16 13-0044 EA 24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 8,747.81<br>148.32<br>370.79  | 666.32   |
| 23 82 16 13-0045 EA 24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 11,582.73<br>190.81<br>477.02 | 1,021.70 |
| 23 82 16 13-0046 EA 30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 13,897.18<br>226.88<br>567.21 | 1,277.51 |
| 23 82 16 13-0047 EA 30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 16,131.45<br>261.36<br>653.39 | 1,531.78 |
| 23 82 16 13-0048 EA 30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 18,556.30<br>303.05<br>757.62 | 1,701.81 |
| 23 82 16 13-0049 EA 30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 15,784.66<br>236.74<br>591.84 | 1,974.01 |
| 23 82 16 13-0050 EA 34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 9,812.34<br>162.06<br>405.14  | 854.74   |
| 23 82 16 13-0051 EA 34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 12,574.70<br>200.09<br>500.23 | 1,285.01 |
| 23 82 16 13-0052 EA 34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 15,705.45<br>236.75<br>591.87 | 1,934.03 |
| 23 82 16 13-0053 EA 34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing .....<br><i>For 10 Fins Per Inch, Add</i><br><i>For 12 Fins Per Inch, Add</i> | 17,256.29<br>255.02<br>637.55 | 2,252.63 |

**23 82 16 14 Electric-Resistance Air Coils** (23 82 16)

**23 82 16 14-0001 Standard Electric Slip-In Blast Coil Heater** (23 82 16 14)

**23 82 16 14-0002 Electric Slip-In Blast Coil Heater With Open Coil Element** (23 82 16 14-0001)

|  |        |        |
|--|--------|--------|
| 23 82 16 14-0003 EA 1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....    | 625.46 | 108.89 |
| 23 82 16 14-0004 EA 1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 643.59 | 117.38 |
| 23 82 16 14-0005 EA 2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 665.01 | 128.68 |
| 23 82 16 14-0006 EA 3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 672.22 | 132.93 |
| 23 82 16 14-0007 EA 4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 690.73 | 141.41 |
| 23 82 16 14-0008 EA 5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 712.02 | 152.73 |
| 23 82 16 14-0009 EA 6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 819.42 | 171.11 |
| 23 82 16 14-0010 EA 7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 836.67 | 179.59 |
| 23 82 16 14-0011 EA 8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 850.81 | 185.25 |
| 23 82 16 14-0012 EA 9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....      | 871.48 | 196.57 |
| 23 82 16 14-0013 EA 10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....     | 952.86 | 207.88 |
| 23 82 16 14-0014 EA 12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater..... | 993.11 | 227.68 |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 82 16 14-0015 EA 15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 1,033.12                  | 247.48                  |
| 23 82 16 14-0016 EA 20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 1,074.73                  | 267.27                  |
| 23 82 16 14-0017 EA 30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 1,464.70                  | 373.34                  |
| 23 82 16 14-0018 EA 40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 2,595.47                  | 397.37                  |
| 23 82 16 14-0019 EA 50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 2,854.19                  | 455.35                  |
| 23 82 16 14-0020 EA 60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 3,369.95                  | 504.85                  |
| 23 82 16 14-0021 EA 70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 3,537.30                  | 548.69                  |
| 23 82 16 14-0022 EA 80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 3,875.85                  | 602.43                  |
| 23 82 16 14-0023 EA 90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....  | 4,754.57                  | 643.43                  |
| 23 82 16 14-0024 EA 100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....   | 5,222.22                  | 691.52                  |
| 23 82 16 14-0025 EA 125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....   | 6,334.10                  | 746.67                  |
| 23 82 16 14-0026 EA 150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....   | 7,131.72                  | 811.72                  |
| <b>23 82 16 14-0027 Electric Slip-In Blast Coil Heater With Finned Tubular Element (23 82 16 14-0001)</b>   |                           |                         |
| 23 82 16 14-0028 EA 1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,027.80                  | 155.56                  |
| 23 82 16 14-0029 EA 2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,060.92                  | 169.70                  |
| 23 82 16 14-0030 EA 3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,072.81                  | 169.70                  |
| 23 82 16 14-0031 EA 4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,160.29                  | 186.66                  |
| 23 82 16 14-0032 EA 5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,210.19                  | 186.66                  |
| 23 82 16 14-0033 EA 6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,236.75                  | 186.66                  |
| 23 82 16 14-0034 EA 8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,300.98                  | 207.88                  |
| 23 82 16 14-0035 EA 9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....   | 1,360.61                  | 233.34                  |
| 23 82 16 14-0036 EA 10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 1,387.17                  | 233.34                  |
| 23 82 16 14-0037 EA 15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 1,562.64                  | 267.27                  |
| 23 82 16 14-0038 EA 20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 1,987.12                  | 267.27                  |
| 23 82 16 14-0039 EA 25 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 2,111.71                  | 289.90                  |
| 23 82 16 14-0040 EA 30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 2,479.68                  | 311.11                  |
| 23 82 16 14-0041 EA 40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 2,936.48                  | 311.11                  |
| 23 82 16 14-0042 EA 45 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 3,202.56                  | 325.25                  |
| 23 82 16 14-0043 EA 50 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....  | 3,360.94                  | 325.25                  |
| <b>23 82 19 Fan Coil Units (23 82)</b>  |                           |                         |
| <b>23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units (23 82 19)</b>  |                           |                         |
| Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds. Excludes supports. |                           |                         |
| <b>23 82 19 00-0002 Horizontal Fan Coil Units With Electric Heating Coil (23 82 19 00-0001)</b>   |                           |                         |
| 23 82 19 00-0003 EA 200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 2,139.62                  | 248.15                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -59.71                    |                         |
| 23 82 19 00-0004 EA 300 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 2,438.16                  | 289.51                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -63.90                    |                         |
| 23 82 19 00-0005 EA 400 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 2,883.99                  | 326.27                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -67.59                    |                         |
| 23 82 19 00-0006 EA 600 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 3,314.20                  | 373.75                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -72.36                    |                         |
| 23 82 19 00-0007 EA 800 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 3,724.53                  | 392.14                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -123.91                   |                         |
| 23 82 19 00-0008 EA 1,000 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 4,734.27                  | 415.12                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -127.10                   |                         |
| 23 82 19 00-0009 EA 1,200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....  | 5,551.38                  | 450.34                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -132.58                   |                         |
| <b>23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0001)</b>  |                           |                         |
| 23 82 19 00-0011 EA 200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 3,054.68                  | 248.15                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -59.71                    |                         |
| 23 82 19 00-0012 EA 300 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 3,445.85                  | 289.51                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -63.90                    |                         |
| 23 82 19 00-0013 EA 400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 4,236.60                  | 326.27                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -67.59                    |                         |
| 23 82 19 00-0014 EA 600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 4,596.87                  | 373.75                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -72.36                    |                         |
| 23 82 19 00-0015 EA 800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 4,900.07                  | 393.67                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -123.91                   |                         |
| 23 82 19 00-0016 EA 1,000 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 6,460.99                  | 415.12                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -127.10                   |                         |
| 23 82 19 00-0017 EA 1,200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 7,558.54                  | 450.34                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -132.58                   |                         |
| 23 82 19 00-0018 EA 1,400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 8,051.93                  | 467.19                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -135.08                   |                         |
| 23 82 19 00-0019 EA 1,600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 8,968.35                  | 486.34                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -137.95                   |                         |
| 23 82 19 00-0020 EA 1,800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....   | 9,637.01                  | 505.49                  |
| For 2-Way Valve Instead Of 3-Way, Deduct  | -140.82                   |                         |
| <b>23 82 19 00-0021 Floor Mounted Vertical Fan Coil Units (23 82 19)</b>  |                           |                         |
| Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.                    |                           |                         |



|  |              |
|--|--------------|
| <b>Heating, Ventilating, and Air-Conditioning (HVAC)</b> | <b>23</b>    |
| <b>Decentralized Unitary HVAC Equipment</b>              | <b>23 80</b> |
| <b>Convection Heating and Cooling Units</b>              | <b>23 82</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>23 82 19 00-0022 Vertical Fan Coil Units With Electric Heating Coil</b> <small>(23 82 19 00-0021)</small>             |                           |                         |
| 23 82 19 00-0023 EA 200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....    | 2,068.08                  | 246.61                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -260.80                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 153.82                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -59.71                    |                         |
| 23 82 19 00-0024 EA 300 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....    | 2,366.62                  | 289.51                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -297.19                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 170.61                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -63.90                    |                         |
| 23 82 19 00-0025 EA 400 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....    | 2,798.13                  | 326.27                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -354.54                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 185.36                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -67.59                    |                         |
| 23 82 19 00-0026 EA 600 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....    | 3,215.46                  | 373.75                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -407.60                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 204.44                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -72.36                    |                         |
| 23 82 19 00-0027 EA 800 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....    | 3,611.50                  | 393.67                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -463.17                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 212.11                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -123.91                   |                         |
| 23 82 19 00-0028 EA 1,000 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....  | 4,584.03                  | 415.12                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -604.81                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 220.60                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -127.10                   |                         |
| 23 82 19 00-0029 EA 1,200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....  | 5,372.52                  | 450.34                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -715.77                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 235.21                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -132.58                   |                         |
| <b>23 82 19 00-0030 Vertical Fan Coil Units With Hot Water Heating Coil</b> <small>(23 82 19 00-0021)</small>            |                           |                         |
| 23 82 19 00-0031 EA 200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....   | 2,943.25                  | 246.61                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -392.08                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 153.82                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -59.71                    |                         |
| 23 82 19 00-0032 EA 300 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....   | 3,321.05                  | 289.51                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -440.35                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 170.61                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -63.90                    |                         |
| 23 82 19 00-0033 EA 400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....   | 4,080.60                  | 326.27                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -546.91                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 185.36                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -67.59                    |                         |
| 23 82 19 00-0034 EA 600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....   | 4,665.82                  | 373.75                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -625.15                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 204.44                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -72.36                    |                         |
| 23 82 19 00-0035 EA 800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....   | 5,193.96                  | 393.67                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -700.54                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 212.11                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -123.91                   |                         |
| 23 82 19 00-0036 EA 1,000 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... | 6,216.08                  | 415.12                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -849.61                   |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 220.60                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -127.10                   |                         |
| 23 82 19 00-0037 EA 1,200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... | 7,268.79                  | 450.34                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -1,000.21                 |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 235.21                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -132.58                   |                         |
| 23 82 19 00-0038 EA 1,400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... | 7,950.64                  | 467.19                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -1,099.16                 |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 241.88                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -135.08                   |                         |
| 23 82 19 00-0039 EA 1,600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... | 8,765.76                  | 486.34                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -1,217.60                 |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 249.54                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -137.95                   |                         |
| 23 82 19 00-0040 EA 1,800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... | 9,341.66                  | 486.34                  |
| <i>For Fan Coil Units Without Cabinet, Deduct</i>  | -1,300.15                 |                         |
| <i>For Thru-Wall Sleeve, Add</i>   | 257.19                    |                         |
| <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>  | -140.82                   |                         |
| <b>23 82 19 00-0041 Removal And Reinstallation Of Fan Coil Units</b> <small>(23 82 19)</small>                           |                           |                         |
| <i>Note: Includes storage and cleaning. Excludes supports.</i>   |                           |                         |
| 23 82 19 00-0042 EA Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical.....                              | 651.27                    |                         |
| <b>23 82 29 Radiators</b> <small>(23 82)</small>   |                           |                         |
| <b>23 82 29 00-0001 Demolish Cast Iron Radiators</b> <small>(23 82 29)</small>   |                           |                         |
| 23 82 29 00-0002 LF Demolish Cast Iron Radiator.....   | 45.94                     |                         |
| 23 82 29 00-0003 EA Cap Radiator.....  | 65.37                     |                         |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



| MINOR            |     | TOTAL DIRECT   |           | DEMOLITION |
|------------------|-----|--|-----------|------------|
| CSI              | UOM | DESCRIPTION  | UNIT COST | UNIT COST  |
| 23 82 29 00-0004 |     | <b>Cast Iron Radiator</b> <small>(23 82 29)</small>  |           |            |
| 23 82 29 00-0005 | EA  | 19" High Cast Iron Radiator Section, Free Standing.....  | 73.87     |            |
|                  |     | <i>For Wall Support Bracket, Add</i>   | 32.88     |            |
| 23 82 29 00-0006 | EA  | 25" High Cast Iron Radiator Section, Free Standing.....  | 105.42    |            |
|                  |     | <i>For Wall Support Bracket, Add</i>   | 34.88     |            |
| 23 82 29 00-0007 | EA  | 30" High Cast Iron Radiator Section, Free Standing.....  | 122.89    |            |
| 23 82 29 00-0008 | EA  | 36" High Cast Iron Radiator Section, Free Standing.....  | 155.19    |            |
| 23 82 29 00-0009 | EA  | 20" High Cast Iron Radiator Section, Recessed With Grille.....   | 102.04    |            |
| 23 82 29 00-0010 |     | <b>Radiator Covers</b> <small>(23 82 29)</small>   |           |            |
|                  |     | Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides. |           |            |
| 23 82 29 00-0011 | SF  | 14 Gauge Stainless Steel Radiator Cover .....  | 134.96    | 7.68       |
| 23 82 29 00-0012 | SF  | Primed And Painted, Galvanized Steel Radiator Cover .....  | 85.13     | 7.68       |
| 23 82 29 00-0013 |     | <b>Radiator Shields</b> <small>(23 82 29)</small>  |           |            |
| 23 82 29 00-0014 | SF  | Stainless Steel Radiator Shield.....   | 71.07     | 7.68       |
| 23 82 29 00-0015 | SF  | Primed And Painted, Galvanized Steel Radiator Shield .....   | 50.81     | 7.68       |
| 23 82 29 00-0016 |     | <b>Removal And Reinstallation Of Radiator</b> <small>(23 82 29)</small>  |           |            |
|                  |     | Note: Includes storage and cleaning.   |           |            |
| 23 82 29 00-0017 | LF  | Removal And Reinstallation Of Cast Iron Radiator .....   | 114.88    |            |
| 23 82 29 00-0018 | LF  | Removal And Reinstallation Of Electric Radiator .....  | 76.59     |            |
| <b>23 82 33</b>  |     | <b>Convectors</b> <small>(23 82)</small>   |           |            |
| 23 82 33 00-0001 |     | <b>Multi-Fin Convectors For Two-Pipe System</b> <small>(23 82 33)</small>  |           |            |
|                  |     | Note: Complete with 6-1/4" deep cabinet enclosure.   |           |            |
| 23 82 33 00-0002 |     | <b>20" High Multi-Fin Convectors For Two-Pipe System</b> <small>(23 82 33 00-0001)</small>   |           |            |
| 23 82 33 00-0003 | EA  | 20" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....  | 637.89    | 168.49     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 82.59     |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 61.06     |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 133.91    |            |
| 23 82 33 00-0004 | EA  | 20" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....  | 746.12    | 183.82     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 89.55     |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 65.70     |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 163.66    |            |
| 23 82 33 00-0005 | EA  | 20" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....  | 860.66    | 217.51     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 104.78    |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 75.86     |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 185.98    |            |
| 23 82 33 00-0006 | EA  | 20" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....  | 1,027.76  | 252.75     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 120.87    |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 86.58     |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 225.70    |            |
| 23 82 33 00-0007 | EA  | 20" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....  | 1,226.29  | 303.29     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 143.83    |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 101.89    |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 268.40    |            |
| 23 82 33 00-0008 | EA  | 20" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....   | 1,376.76  | 333.62     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 157.60    |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 111.07    |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 305.00    |            |
| 23 82 33 00-0009 | EA  | 20" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....   | 1,605.94  | 404.39     |
|                  |     | <i>For Knob Operated Damper, Add</i>   | 15.00     |            |
|                  |     | <i>For Metal Trim Strips, Add</i>  | 189.76    |            |
|                  |     | <i>For Snap-On Inlet Grille, Add</i>   | 132.50    |            |
|                  |     | <i>For Access Doors Hinged, Add</i>  | 15.00     |            |
|                  |     | <i>For Air Chamber, Auto-vent, Add</i>   | 18.00     |            |
|                  |     | <i>For 3 Tubes System, Add</i>   | 347.70    |            |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 82 33 00-0010 EA 20" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 1,748.82                  | 429.67                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 201.25                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 140.17                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 384.30                    |                         |
| 23 82 33 00-0011 EA 20" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 1,912.48                  | 480.21                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 224.20                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 155.47                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 414.80                    |                         |
| 23 82 33 00-0012 EA 20" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,111.14                  | 530.76                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 247.20                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 170.80                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 457.50                    |                         |
| 23 82 33 00-0013 EA 20" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,274.82                  | 581.31                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 270.16                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 186.11                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 488.00                    |                         |
| <b>23 82 33 00-0014 26" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)</b>              |                           |                         |
| 23 82 33 00-0015 EA 26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 757.52                    | 221.65                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 105.72                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 76.48                     |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 148.79                    |                         |
| 23 82 33 00-0016 EA 26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 888.44                    | 257.49                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 121.81                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 87.21                     |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 175.84                    |                         |
| 23 82 33 00-0017 EA 26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,071.53                  | 302.38                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 141.96                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 100.64                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 216.42                    |                         |
| 23 82 33 00-0018 EA 26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,249.72                  | 337.15                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 157.56                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 111.04                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 260.58                    |                         |
| 23 82 33 00-0019 EA 26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,453.55                  | 379.12                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 176.45                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 123.63                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 309.88                    |                         |
| 23 82 33 00-0020 EA 26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 1,621.78                  | 410.67                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 190.70                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 133.13                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 352.14                    |                         |
| 23 82 33 00-0021 EA 26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 1,849.62                  | 467.96                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 216.80                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 150.53                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 401.44                    |                         |
| 23 82 33 00-0022 EA 26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,012.73                  | 496.60                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 229.51                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 159.01                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 443.70                    |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 82 33 00-0023 EA 26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,179.64                  | 541.49                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 249.40                    |                         |
| For Snap-On Inlet Grille, Add   | 172.27                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 478.91                    |                         |
| 23 82 33 00-0024 EA 26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,387.48                  | 585.45                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 269.50                    |                         |
| For Snap-On Inlet Grille, Add   | 185.66                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 528.21                    |                         |
| 23 82 33 00-0025 EA 26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,548.36                  | 625.73                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 287.58                    |                         |
| For Snap-On Inlet Grille, Add   | 197.72                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 563.42                    |                         |
| <b>23 82 33 00-0026 32" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)</b>              |                           |                         |
| 23 82 33 00-0027 EA 32" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 875.87                    | 269.60                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 128.48                    |                         |
| For Snap-On Inlet Grille, Add   | 91.65                     |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 163.66                    |                         |
| 23 82 33 00-0028 EA 32" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,046.75                  | 326.27                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 154.24                    |                         |
| For Snap-On Inlet Grille, Add   | 108.82                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 193.42                    |                         |
| 23 82 33 00-0029 EA 32" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,257.76                  | 381.41                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 179.28                    |                         |
| For Snap-On Inlet Grille, Add   | 125.52                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 238.06                    |                         |
| 23 82 33 00-0030 EA 32" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,446.94                  | 414.50                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 194.39                    |                         |
| For Snap-On Inlet Grille, Add   | 135.60                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 286.64                    |                         |
| 23 82 33 00-0031 EA 32" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....  | 1,651.92                  | 447.90                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 209.41                    |                         |
| For Snap-On Inlet Grille, Add   | 145.60                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 340.87                    |                         |
| 23 82 33 00-0032 EA 32" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 1,834.05                  | 480.21                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 224.20                    |                         |
| For Snap-On Inlet Grille, Add   | 155.47                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 387.35                    |                         |
| 23 82 33 00-0033 EA 32" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,050.58                  | 520.66                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 242.68                    |                         |
| For Snap-On Inlet Grille, Add   | 167.79                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 441.58                    |                         |
| 23 82 33 00-0034 EA 32" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,234.25                  | 554.05                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 257.94                    |                         |
| For Snap-On Inlet Grille, Add   | 177.96                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 488.06                    |                         |
| 23 82 33 00-0035 EA 32" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet ..... | 2,400.06                  | 591.42                  |
| For Knob Operated Damper, Add   | 15.00                     |                         |
| For Metal Trim Strips, Add  | 274.48                    |                         |
| For Snap-On Inlet Grille, Add   | 188.99                    |                         |
| For Access Doors Hinged, Add  | 15.00                     |                         |
| For Air Chamber, Auto-vent, Add   | 18.00                     |                         |
| For 3 Tubes System, Add   | 526.79                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....           | 2,610.06                  | 626.81                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 291.00                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 200.00                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 581.02                    |                         |
| 23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....           | 2,765.91                  | 657.13                  |
| <i>For Knob Operated Damper, Add</i>  | 15.00                     |                         |
| <i>For Metal Trim Strips, Add</i>   | 304.55                    |                         |
| <i>For Snap-On Inlet Grille, Add</i>  | 209.04                    |                         |
| <i>For Access Doors Hinged, Add</i>   | 15.00                     |                         |
| <i>For Air Chamber, Auto-vent, Add</i>  | 18.00                     |                         |
| <i>For 3 Tubes System, Add</i>  | 619.76                    |                         |
| <b>23 82 33 00-0038 Electric Convectors, Floor Standing Units (23 82 33)</b>  |                           |                         |
| <b>23 82 33 00-0039 4" Deep Electric Convectors (23 82 33 00-0038)</b>  |                           |                         |
| 23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units .....                   | 639.21                    | 151.87                  |
| 23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units .....                   | 701.05                    | 151.87                  |
| <b>23 82 33 00-0042 6" Deep Electric Convectors (23 82 33 00-0038)</b>  |                           |                         |
| 23 82 33 00-0043 EA 38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units .....                   | 729.59                    | 151.87                  |
| 23 82 33 00-0044 EA 50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units .....                   | 824.73                    | 151.87                  |
| 23 82 33 00-0045 EA 62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units .....                   | 907.98                    | 151.87                  |
| 23 82 33 00-0046 EA 74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units .....                   | 1,038.80                  | 151.87                  |
| <b>23 82 36 Finned-Tube Radiation Heaters (23 82)</b>   |                           |                         |
| <b>23 82 36 00-0001 Electric Baseboard Heating (23 82 36)</b>   |                           |                         |
| Note: Includes 24 gauge steel enclosure and heating element   |                           |                         |
| <b>23 82 36 00-0002 Electric Wall Heating 10" Enclosure (23 82 36 00-0001)</b>                                      |                           |                         |
| 23 82 36 00-0003 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element <250 Watts/FT .....   | 170.17                    | 84.37                   |
| 23 82 36 00-0004 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element >= 250 Watts/FT ..... | 173.02                    | 84.37                   |
| <b>23 82 36 00-0005 Electric Wall Heating 16" Enclosure (23 82 36 00-0001)</b>                                      |                           |                         |
| 23 82 36 00-0006 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element <350 Watts/FT .....   | 198.71                    | 84.37                   |
| 23 82 36 00-0007 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element >= 350 Watts/FT ..... | 205.84                    | 84.37                   |
| <b>23 82 36 00-0008 Finned Tube Baseboard Units (23 82 36)</b>  |                           |                         |
| Note: Complete with steel enclosure. Single heating element.  |                           |                         |
| <b>23 82 36 00-0009 3/4" IPS Steel Tube With Steel Fins (23 82 36 00-0008)</b>                                      |                           |                         |
| 23 82 36 00-0010 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....      | 437.79                    | 59.74                   |
| <i>For 90 Degree Corner, Add</i>  | 67.80                     |                         |
| <i>For Valve Enclosure, Add</i>   | 67.80                     |                         |
| <i>For Filler Piece, Add</i>  | 60.80                     |                         |
| <i>For End Cap, Add</i>   | 45.57                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>  | 8.18                      |                         |
| 23 82 36 00-0011 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....      | 571.30                    | 90.38                   |
| <i>For 90 Degree Corner, Add</i>  | 79.63                     |                         |
| <i>For Valve Enclosure, Add</i>   | 79.63                     |                         |
| <i>For Filler Piece, Add</i>  | 72.63                     |                         |
| <i>For End Cap, Add</i>   | 53.26                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>  | 12.27                     |                         |
| 23 82 36 00-0012 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....      | 680.51                    | 119.48                  |
| <i>For 90 Degree Corner, Add</i>  | 86.59                     |                         |
| <i>For Valve Enclosure, Add</i>   | 86.59                     |                         |
| <i>For Filler Piece, Add</i>  | 79.59                     |                         |
| <i>For End Cap, Add</i>   | 57.78                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>  | 16.37                     |                         |
| 23 82 36 00-0013 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....     | 847.90                    | 167.27                  |
| <i>For 90 Degree Corner, Add</i>  | 105.58                    |                         |
| <i>For Valve Enclosure, Add</i>   | 105.58                    |                         |
| <i>For Filler Piece, Add</i>  | 98.58                     |                         |
| <i>For End Cap, Add</i>   | 70.13                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>  | 20.35                     |                         |
| 23 82 36 00-0014 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....     | 1,014.86                  | 200.97                  |
| <i>For 90 Degree Corner, Add</i>  | 124.88                    |                         |
| <i>For Valve Enclosure, Add</i>   | 124.88                    |                         |
| <i>For Filler Piece, Add</i>  | 117.88                    |                         |
| <i>For End Cap, Add</i>   | 82.67                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>  | 24.23                     |                         |
| 23 82 36 00-0015 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....     | 1,141.28                  | 214.45                  |
| <i>For 90 Degree Corner, Add</i>  | 132.54                    |                         |
| <i>For Valve Enclosure, Add</i>   | 132.54                    |                         |
| <i>For Filler Piece, Add</i>  | 125.54                    |                         |
| <i>For End Cap, Add</i>   | 87.65                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>  | 29.07                     |                         |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 23 82 36 00-0016        | EA  |     | 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....  | 1,258.49               | 236.97               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 145.41                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 145.41                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 138.41                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 96.02                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 31.98                  |                      |
| 23 82 36 00-0017        | EA  |     | 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....  | 1,435.41               | 268.06               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 163.18                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 163.18                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 156.18                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 107.57                 |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 36.82                  |                      |
| 23 82 36 00-0018        | EA  |     | 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....  | 1,582.56               | 294.87               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 178.51                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 178.51                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 171.51                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 117.53                 |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 40.70                  |                      |
| <b>23 82 36 00-0019</b> |     |     | <b>1" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small></b>                   |                        |                      |
| 23 82 36 00-0020        | EA  |     | 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....     | 501.56                 | 59.74                |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 67.80                  |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 67.80                  |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 60.80                  |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 45.57                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 11.69                  |                      |
| 23 82 36 00-0021        | EA  |     | 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....     | 666.96                 | 90.38                |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 79.63                  |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 79.63                  |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 72.63                  |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 53.26                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 17.54                  |                      |
| 23 82 36 00-0022        | EA  |     | 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....     | 808.05                 | 119.48               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 86.59                  |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 86.59                  |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 79.59                  |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 57.78                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 23.38                  |                      |
| 23 82 36 00-0023        | EA  |     | 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....    | 1,006.66               | 167.27               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 105.62                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 105.62                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 98.62                  |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 70.15                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 29.07                  |                      |
| 23 82 36 00-0024        | EA  |     | 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....    | 1,203.39               | 200.97               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 124.83                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 124.83                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 117.83                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 82.64                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 34.61                  |                      |
| 23 82 36 00-0025        | EA  |     | 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....    | 1,367.82               | 214.45               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 132.54                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 132.54                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 125.54                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 87.65                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 41.53                  |                      |
| 23 82 36 00-0026        | EA  |     | 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....    | 1,507.20               | 236.97               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 145.32                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 145.32                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 138.32                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 95.96                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 45.68                  |                      |
| 23 82 36 00-0027        | EA  |     | 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....    | 1,722.37               | 268.06               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 163.18                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 163.18                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 156.18                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 107.57                 |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 52.61                  |                      |
| 23 82 36 00-0028        | EA  |     | 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....    | 1,898.80               | 294.87               |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 178.33                 |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 178.33                 |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 171.33                 |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 117.41                 |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 58.14                  |                      |
| <b>23 82 36 00-0029</b> |     |     | <b>1-1/4" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small></b>               |                        |                      |
| 23 82 36 00-0030        | EA  |     | 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element ..... | 565.33                 | 59.74                |
|                         |     |     | <i>For 90 Degree Corner, Add</i>   | 67.80                  |                      |
|                         |     |     | <i>For Valve Enclosure, Add</i>  | 67.80                  |                      |
|                         |     |     | <i>For Filler Piece, Add</i>   | 60.80                  |                      |
|                         |     |     | <i>For End Cap, Add</i>  | 45.57                  |                      |
|                         |     |     | <i>For Copper Tube With Aluminum Fins, Add</i>   | 15.20                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 23 82 36 00-0031 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....  | 762.60                    | 90.38                   |
| <i>For 90 Degree Corner, Add</i>   | 79.63                     |                         |
| <i>For Valve Enclosure, Add</i>  | 79.63                     |                         |
| <i>For Filler Piece, Add</i>   | 72.63                     |                         |
| <i>For End Cap, Add</i>  | 53.26                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 22.80                     |                         |
| 23 82 36 00-0032 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....  | 935.58                    | 119.48                  |
| <i>For 90 Degree Corner, Add</i>   | 86.59                     |                         |
| <i>For Valve Enclosure, Add</i>  | 86.59                     |                         |
| <i>For Filler Piece, Add</i>   | 79.59                     |                         |
| <i>For End Cap, Add</i>  | 57.78                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 30.39                     |                         |
| 23 82 36 00-0033 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... | 1,165.23                  | 167.27                  |
| <i>For 90 Degree Corner, Add</i>   | 105.62                    |                         |
| <i>For Valve Enclosure, Add</i>  | 105.62                    |                         |
| <i>For Filler Piece, Add</i>   | 98.62                     |                         |
| <i>For End Cap, Add</i>  | 70.15                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 37.79                     |                         |
| 23 82 36 00-0034 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... | 1,392.17                  | 200.97                  |
| <i>For 90 Degree Corner, Add</i>   | 124.83                    |                         |
| <i>For Valve Enclosure, Add</i>  | 124.83                    |                         |
| <i>For Filler Piece, Add</i>   | 117.83                    |                         |
| <i>For End Cap, Add</i>  | 82.64                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 44.99                     |                         |
| 23 82 36 00-0035 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... | 1,594.36                  | 214.45                  |
| <i>For 90 Degree Corner, Add</i>   | 132.54                    |                         |
| <i>For Valve Enclosure, Add</i>  | 132.54                    |                         |
| <i>For Filler Piece, Add</i>   | 125.54                    |                         |
| <i>For End Cap, Add</i>  | 87.65                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 53.99                     |                         |
| 23 82 36 00-0036 EA 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... | 1,756.39                  | 236.97                  |
| <i>For 90 Degree Corner, Add</i>   | 145.32                    |                         |
| <i>For Valve Enclosure, Add</i>  | 145.32                    |                         |
| <i>For Filler Piece, Add</i>   | 138.32                    |                         |
| <i>For End Cap, Add</i>  | 95.96                     |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 59.39                     |                         |
| 23 82 36 00-0037 EA 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... | 2,009.31                  | 268.06                  |
| <i>For 90 Degree Corner, Add</i>   | 163.18                    |                         |
| <i>For Valve Enclosure, Add</i>  | 163.18                    |                         |
| <i>For Filler Piece, Add</i>   | 156.18                    |                         |
| <i>For End Cap, Add</i>  | 107.57                    |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 68.39                     |                         |
| 23 82 36 00-0038 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... | 2,215.95                  | 294.87                  |
| <i>For 90 Degree Corner, Add</i>   | 178.33                    |                         |
| <i>For Valve Enclosure, Add</i>  | 178.33                    |                         |
| <i>For Filler Piece, Add</i>   | 171.33                    |                         |
| <i>For End Cap, Add</i>  | 117.41                    |                         |
| <i>For Copper Tube With Aluminum Fins, Add</i>   | 75.59                     |                         |

**23 82 39 Unit Heaters** (23 82)

**23 82 39 13 Cabinet Unit Heaters** (23 82 39)

**23 82 39 13-0001 Electric Cabinet Unit Heaters** (23 82 39 13)

Note: Can be mounted on the ceiling, floor or wall. Includes built-in thermostat. 208, 240/208, 277, or 480 Volt.

**23 82 39 13-0002 Electric Cabinet Unit Heaters, 35" Cabinet Length** (23 82 39 13-0001)

|  |          |        |
|--|----------|--------|
| 23 82 39 13-0003 EA 2 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 2,983.34 | 191.75 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0004 EA 3 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 3,006.15 | 191.75 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0005 EA 4 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 3,028.97 | 191.75 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0006 EA 5 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 3,051.77 | 191.75 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0007 EA 6 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 3,074.59 | 191.75 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0008 EA 7 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 3,097.41 | 191.75 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0009 EA 8 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....          | 3,121.13 | 191.75 |
| 23 82 39 13-0010 EA For Ceiling Installation of 35" Cabinet Unit Heater, Add ..... | 256.18   | 127.32 |

**23 82 39 13-0011 Electric Cabinet Unit Heaters, 45" Cabinet Length** (23 82 39 13-0001)

|  |          |        |
|--|----------|--------|
| 23 82 39 13-0012 EA 4 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....  | 3,183.22 | 230.10 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0013 EA 6 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....  | 3,228.86 | 230.10 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0014 EA 8 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....  | 3,274.48 | 230.10 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0015 EA 10 KW, 500 CFM, 45" Electric Cabinet Unit Heater ..... | 3,320.12 | 230.10 |
| Note: Wall or floor mounted.   |          |        |
| 23 82 39 13-0016 EA 12 KW, 500 CFM, 45" Electric Cabinet Unit Heater ..... | 3,365.73 | 230.10 |
| Note: Wall or floor mounted.   |          |        |

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 23 82 39 13-0017 EA 14 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 3,411.37                  | 230.10                  |
| 23 82 39 13-0018 EA 16 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 3,456.99                  | 230.10                  |
| 23 82 39 13-0019 EA For Ceiling Installation of 45" Cabinet Unit Heater, Add .....  | 306.80                    | 153.40                  |
| <b>23 82 39 13-0020 Electric Cabinet Unit Heaters, 58" Cabinet Length (23 82 39 13-0001)</b>  |                           |                         |
| 23 82 39 13-0021 EA 6 KW, 750 CFM, 58" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.   | 4,005.53                  | 306.80                  |
| 23 82 39 13-0022 EA 8 KW, 750 CFM, 58" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.   | 4,051.15                  | 306.80                  |
| 23 82 39 13-0023 EA 10 KW, 750 CFM, 58" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 4,096.78                  | 306.80                  |
| 23 82 39 13-0024 EA 12 KW, 750 CFM, 58" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 4,142.40                  | 306.80                  |
| 23 82 39 13-0025 EA 14 KW, 750 CFM, 58" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 4,188.04                  | 306.80                  |
| 23 82 39 13-0026 EA 16 KW, 750 CFM, 58" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 4,233.65                  | 306.80                  |
| 23 82 39 13-0027 EA For Ceiling Installation of 58" Cabinet Unit Heater, Add .....  | 383.50                    | 191.75                  |
| <b>23 82 39 13-0028 Electric Cabinet Unit Heaters, 68" Cabinet Length (23 82 39 13-0001)</b>  |                           |                         |
| 23 82 39 13-0029 EA 6 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.   | 4,736.59                  | 383.50                  |
| 23 82 39 13-0030 EA 9 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.   | 4,805.02                  | 383.50                  |
| 23 82 39 13-0031 EA 12 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 4,873.46                  | 383.50                  |
| 23 82 39 13-0032 EA 15 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 4,941.89                  | 383.50                  |
| 23 82 39 13-0033 EA 18 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,010.35                  | 383.50                  |
| 23 82 39 13-0034 EA 21 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,078.79                  | 383.50                  |
| 23 82 39 13-0035 EA 24 KW, 750 CFM, 68" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,147.22                  | 383.50                  |
| 23 82 39 13-0036 EA For Ceiling Installation of 68" Cabinet Unit Heater, Add .....  | 512.36                    | 256.18                  |
| <b>23 82 39 13-0037 Electric Cabinet Unit Heaters, 78" Cabinet Length (23 82 39 13-0001)</b>  |                           |                         |
| 23 82 39 13-0038 EA 8 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.   | 5,558.87                  | 460.20                  |
| 23 82 39 13-0039 EA 12 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,650.13                  | 460.20                  |
| 23 82 39 13-0040 EA 16 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,741.38                  | 460.20                  |
| 23 82 39 13-0041 EA 20 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,832.63                  | 460.20                  |
| 23 82 39 13-0042 EA 24 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 5,923.89                  | 460.20                  |
| 23 82 39 13-0043 EA 28 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 6,015.14                  | 460.20                  |
| 23 82 39 13-0044 EA 32 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater .....<br>Note: Wall or floor mounted.  | 6,106.40                  | 460.20                  |
| 23 82 39 13-0045 EA For Ceiling Installation of 78" Cabinet Unit Heater, Add .....  | 613.60                    | 306.80                  |
| <b>23 82 39 13-0046 Removal and Reinstallation of Cabinet Unit Heaters (23 82 39 13)</b>  |                           |                         |
| Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports. |                           |                         |
| 23 82 39 13-0047 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Floor or Wall.....   | 421.24                    |                         |
| 23 82 39 13-0048 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Floor or Wall .....   | 727.62                    |                         |
| 23 82 39 13-0049 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Ceiling .....  | 868.52                    |                         |
| 23 82 39 13-0050 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Ceiling .....   | 1,174.87                  |                         |
| <b>23 82 39 16 Propeller Unit Heaters (23 82 39)</b>  |                           |                         |
| <b>23 82 39 16-0001 Hydronic Unit Heaters Using Steam Or Hot Water (23 82 39 16)</b>  |                           |                         |
| Note: For use with either steam or heating hot water. Heating output capacities for both are listed.  |                           |                         |
| <b>23 82 39 16-0002 Horizontal Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)</b>  |                           |                         |
| 23 82 39 16-0003 EA 18 MBH Steam, 13 MBH Hot Water, 395 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,051.32                  | 153.18                  |
| 23 82 39 16-0004 EA 24 MBH Steam, 17.4 MBH Hot Water, 450 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,053.35                  | 153.18                  |
| 23 82 39 16-0005 EA 36 MBH Steam, 26.1 MBH Hot Water, 550 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,170.16                  | 153.18                  |
| 23 82 39 16-0006 EA 48 MBH Steam, 34.8 MBH Hot Water, 750 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,444.90                  | 229.77                  |
| 23 82 39 16-0007 EA 60 MBH Steam, 43.6 MBH Hot Water, 900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,504.65                  | 229.77                  |
| 23 82 39 16-0008 EA 72 MBH Steam, 52.3 MBH Hot Water, 1,100 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,593.64                  | 229.77                  |
| 23 82 39 16-0009 EA 84 MBH Steam, 61 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 1,921.99                  | 306.36                  |
| 23 82 39 16-0010 EA 96 MBH Steam, 69.7 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 2,101.26                  | 306.36                  |
| 23 82 39 16-0011 EA 108 MBH Steam, 78.4 MBH Hot Water, 2,800 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 2,215.35                  | 306.36                  |



|  | MINOR<br>CSI UOM DESCRIPTION |  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|------------------------------|--|---------------------------|-------------------------|
|  | 23 82 39 16-0012             | EA 120 MBH Steam, 87.1 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 2,307.71                  | 306.36                  |
|  | 23 82 39 16-0013             | EA 132 MBH Steam, 95.8 MBH Hot Water, 2,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....  | 2,615.72                  | 382.95                  |
|  | 23 82 39 16-0014             | EA 144 MBH Steam, 104 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 2,646.97                  | 382.95                  |
|  | 23 82 39 16-0015             | EA 156 MBH Steam, 113 MBH Hot Water, 2,600 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 2,676.85                  | 382.95                  |
|  | 23 82 39 16-0016             | EA 180 MBH Steam, 118 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 2,866.62                  | 459.53                  |
|  | 23 82 39 16-0017             | EA 204 MBH Steam, 148 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 3,100.22                  | 459.53                  |
|  | 23 82 39 16-0018             | EA 240 MBH Steam, 174 MBH Hot Water, 3,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 3,540.18                  | 536.12                  |
|  | 23 82 39 16-0019             | EA 280 MBH Steam, 209.1 MBH Hot Water, 4,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 4,386.31                  | 536.12                  |
|  | 23 82 39 16-0020             | EA 300 MBH Steam, 230 MBH Hot Water, 5,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 4,677.89                  | 612.71                  |
|  | 23 82 39 16-0021             | EA 360 MBH Steam, 261.3 MBH Hot Water, 5,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....   | 5,547.12                  | 612.71                  |
|  | 23 82 39 16-0022             | EA Fan Guard For Fan Propelled Steam Unit Heater, Horizontal .....   | 283.69                    | 38.29                   |
|  |                              | Note: Required only for unit heaters located within 7' of a working surface.   |                           |                         |
|  | <b>23 82 39 16-0023</b>      | <b>Vertical Hydronic Unit Heaters, Fan Propelled, 115 Volt <small>(23 82 39 16-0001)</small></b>   |                           |                         |
|  | 23 82 39 16-0024             | EA 41.3 MBH Steam, 22.7 MBH Hot Water, 595 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 1,525.04                  | 153.18                  |
|  | 23 82 39 16-0025             | EA 65.5 MBH Steam, 39.6 MBH Hot Water, 989 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 1,589.55                  | 229.77                  |
|  | 23 82 39 16-0026             | EA 80.6 MBH Steam, 48.4 MBH Hot Water, 1,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 1,707.04                  | 229.77                  |
|  | 23 82 39 16-0027             | EA 101.8 MBH Steam, 68.3 MBH Hot Water, 1,490 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....  | 2,105.35                  | 306.36                  |
|  | 23 82 39 16-0028             | EA 124.4 MBH Steam, 83.7 MBH Hot Water, 1,790 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....  | 2,220.78                  | 306.36                  |
|  | 23 82 39 16-0029             | EA 152 MBH Steam, 105.2 MBH Hot Water, 2,220 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 2,657.46                  | 459.53                  |
|  | 23 82 39 16-0030             | EA 173 MBH Steam, 118.6 MBH Hot Water, 2,620 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 2,834.02                  | 459.53                  |
|  | 23 82 39 16-0031             | EA 210.2 MBH Steam, 139.7 MBH Hot Water, 3,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 2,982.07                  | 459.53                  |
|  | 23 82 39 16-0032             | EA 249.8 MBH Steam, 180.1 MBH Hot Water, 4,180 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 3,337.80                  | 536.12                  |
|  | 23 82 39 16-0033             | EA 283.8 MBH Steam, 205.4 MBH Hot Water, 4,430 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 3,513.02                  | 536.12                  |
|  | 23 82 39 16-0034             | EA 333.4 MBH Steam, 242.9 MBH Hot Water, 5,210 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 3,867.48                  | 536.12                  |
|  | 23 82 39 16-0035             | EA 386 MBH Steam, 280.8 MBH Hot Water, 6,140 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 4,496.96                  | 689.30                  |
|  | 23 82 39 16-0036             | EA 496 MBH Steam, 368.1 MBH Hot Water, 8,020 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 5,675.85                  | 689.30                  |
|  | 23 82 39 16-0037             | EA 585 MBH Steam, 431.1 MBH Hot Water, 9,450 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....   | 6,037.12                  | 689.30                  |
|  | 23 82 39 16-0038             | EA 705 MBH Steam, 519.4 MBH Hot Water, 11,000 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....  | 6,866.67                  | 765.89                  |
|  | 23 82 39 16-0039             | EA Fan Guard For Fan Propelled Steam Unit Heater, Vertical .....   | 384.19                    | 38.29                   |
|  |                              | Note: Required only for unit heaters located within 7' of a working surface.   |                           |                         |
|  | <b>23 82 39 16-0040</b>      | <b>Removal and Reinstallation of Propeller Unit Heaters <small>(23 82 39 16)</small></b>   |                           |                         |
|  |                              | Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.                    |                           |                         |
|  | 23 82 39 16-0041             | EA Removal And Reinstallation Of Up To 120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical .....  | 919.07                    |                         |
|  | 23 82 39 16-0042             | EA Removal And Reinstallation Of >120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical .....   | 1,225.42                  |                         |
|  | <b>23 82 39 19</b>           | <b>Wall and Ceiling Unit Heaters <small>(23 82 39)</small></b>   |                           |                         |
|  | <b>23 82 39 19-0001</b>      | <b>Electric Unit Heaters <small>(23 82 39 19)</small></b>  |                           |                         |
|  |                              | Note: May be mounted both vertically and horizontally.   |                           |                         |
|  | 23 82 39 19-0002             | EA 3 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....   | 915.80                    | 153.40                  |
|  | 23 82 39 19-0003             | EA 5 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....   | 915.80                    | 153.40                  |
|  | 23 82 39 19-0004             | EA 7.5 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....   | 1,221.76                  | 191.75                  |
|  | 23 82 39 19-0005             | EA 10 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....  | 1,406.12                  | 230.10                  |
|  | 23 82 39 19-0006             | EA 15 KW, 910 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....  | 2,038.00                  | 306.80                  |
|  | 23 82 39 19-0007             | EA 20 KW, 1,320 CFM Electric Unit Heater, 208, 240/208, 277, or 480 Volt .....   | 2,938.59                  | 383.50                  |
|  | 23 82 39 19-0008             | EA 30 KW, 2,100 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt .....  | 4,023.19                  | 460.20                  |
|  | 23 82 39 19-0009             | EA 50 KW, 3,000 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt .....  | 5,816.41                  | 536.90                  |
|  | 23 82 39 19-0010             | EA 3 KW, 350 CFM Electric Unit Heater - 480 Volt .....   | 1,113.78                  | 153.40                  |
|  | 23 82 39 19-0011             | EA 5 KW, 350 CFM Electric Unit Heater - 480 Volt .....   | 1,075.13                  | 153.40                  |
|  | 23 82 39 19-0012             | EA 7.5 KW, 650 CFM Electric Unit Heater - 480 Volt .....   | 1,278.35                  | 191.75                  |
|  | 23 82 39 19-0013             | EA 10 KW, 650 CFM Electric Unit Heater - 480 Volt .....  | 1,479.73                  | 230.10                  |
|  | 23 82 39 19-0014             | EA 15 KW, 910 CFM Electric Unit Heater - 480 Volt .....  | 2,185.23                  | 306.80                  |
|  | <b>23 82 39 19-0015</b>      | <b>Electric Ceiling and Wall Heaters <small>(23 82 39 19)</small></b>  |                           |                         |
|  |                              | Note: The "/" between wattages indicates two or three speed operation. 120, 240/208 or 277 Volt.   |                           |                         |
|  | 23 82 39 19-0016             | EA 1,000, 1,500 Or 2,000 Watt Recessed Electric Wall Heater .....  | 451.98                    | 95.88                   |
|  | 23 82 39 19-0017             | EA 1,500/750 Or 2,000/1,000 Watt Recessed Electric Wall Heater .....   | 527.15                    | 107.38                  |
|  | 23 82 39 19-0018             | EA 3,000, 3,600, 4,000 Or 4,800 Watt Recessed Electric Wall Heater .....   | 803.15                    | 107.38                  |
|  | 23 82 39 19-0019             | EA 1,000, 1,500 Or 2,000 Watt Surface Mounted Electric Wall Heater .....   | 508.67                    | 95.88                   |
|  | 23 82 39 19-0020             | EA 1,500/750 Or 2,000/1,000 Watt Surface Mounted Electric Wall Heater .....  | 616.61                    | 107.38                  |
|  | 23 82 39 19-0021             | EA 3,000, 3,600, 4,000 Or 4,800 Watt Surface Mounted Electric Wall Heater .....  | 908.23                    | 107.38                  |
|  | 23 82 39 19-0022             | EA 1,000, 1,500 Or 2,000/1,500 Watt Recessed Electric Ceiling Heater .....   | 669.15                    | 126.55                  |
|  | 23 82 39 19-0023             | EA 3,000, 4,000 Or 4,000/3,000 Watt Recessed Electric Ceiling Heater .....   | 1,211.57                  | 134.23                  |
|  | 23 82 39 19-0024             | EA 4,800/3,600 Watt Recessed Electric Ceiling Heater .....   | 1,357.43                  | 134.23                  |
|  | 23 82 39 19-0025             | EA 4,000/3,000/2,000 Watt Recessed Or Surface Mounted Electric Ceiling Heater .....  | 1,570.78                  | 141.90                  |
|  | 23 82 39 19-0026             | EA 5,000/3,800/2,500 Watt Recessed Or Surface Mounted Electric Ceiling Heater .....  | 1,698.85                  | 141.90                  |
|  | 23 82 39 19-0027             | EA 1,000, 1,500 Or 2,000/1,500 Watt Surface Mounted Electric Ceiling Heater .....  | 744.91                    | 126.55                  |
|  | 23 82 39 19-0028             | EA 3,000, 4,000 Or 4,000/3,000 Watt Surface Mounted Electric Ceiling Heater .....  | 1,330.91                  | 134.23                  |
|  | 23 82 39 19-0029             | EA 4,800/3,600 Watt Surface Mounted Electric Ceiling Heater .....  | 1,476.77                  | 134.23                  |
|  | 23 82 39 19-0030             | EA Selectable Wattage (500 Or 750 Or 1000 Or 1,250 Or 1,500 Or 1,750 Or 2,250 Watt), 240 Volt, Surface Mounted, Electric Wall Heater (Markel Series 305 - Model H30522T2DWB) ..... | 692.97                    | 95.88                   |



**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

|                  |   |          |  |
|------------------|---|----------|--|
| 23 82 39 19-0031 | Removal And Reinstallation Of Electric Unit Heaters <sup>(23 82 39 19)</sup>  |          |  |
|                  | Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports. |          |  |
| 23 82 39 19-0032 | EA Removal And Reinstallation Of Up To 15KW Electric Unit Heater .....  | 551.47   |  |
| 23 82 39 19-0033 | EA Removal And Reinstallation Of >15 KW Electric Unit Heater .....  | 1,133.65 |  |

**23 83 Radiant Heating Units<sup>(23 80)</sup>****23 83 13 Radiant-Heating Electric Cables<sup>(23 83)</sup>****23 83 13 13 Radiant-Heating Electric Cables<sup>(23 83 13)</sup>**

|                  |  |        |       |
|------------------|--|--------|-------|
| 23 83 13 13-0001 | Self Regulating Heating Cable <sup>(23 83 13 13)</sup>   |        |       |
| 23 83 13 13-0002 | LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable .....   | 9.56   | 1.07  |
|                  | Note: Tinned copper braid, at 50 Degrees F.  |        |       |
| 23 83 13 13-0003 | LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable .....   | 10.17  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0004 | LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable .....   | 10.59  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0005 | LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable .....   | 9.56   | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0006 | LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable .....   | 11.20  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0007 | LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable .....   | 11.80  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0008 | LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions ..... | 11.79  | 1.07  |
|                  | Note: Tinned copper braid, at 50 Degrees F.  |        |       |
| 23 83 13 13-0009 | LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions ..... | 12.07  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0010 | LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions ..... | 12.35  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0011 | LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions ..... | 11.79  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0012 | LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions ..... | 12.07  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0013 | LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions ..... | 12.35  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0014 | LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....                   | 14.59  | 1.07  |
|                  | Note: Tinned copper braid, at 50 Degrees F.  |        |       |
| 23 83 13 13-0015 | LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....                   | 15.15  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0016 | LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....                   | 15.43  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0017 | LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....                   | 14.59  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0018 | LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....                   | 15.15  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0019 | LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments.....                   | 15.43  | 1.07  |
|                  | Note: Tinned copper braid, at 50 degrees F.  |        |       |
| 23 83 13 13-0020 | EA Power Connection Kit With Pre-set Thermostat For Self Regulating Low Temperature Heating Cable .....  | 359.09 | 84.71 |
| 23 83 13 13-0021 | EA Splice And Tee Kit For Self Regulating Low Temperature Heating Cable .....  | 359.09 | 84.71 |
| 23 83 13 13-0022 | EA End Seal Kit For Self Regulating Low Temperature Heating Cable .....  | 220.47 | 15.41 |
| 23 83 13 13-0023 | EA Ambient Air Sensing Thermostat For Self Regulating Low Temperature Heating Cable .....  | 596.37 | 38.51 |
| 23 83 13 13-0024 | EA Mechanical Or Electrical Line Sensing Thermostat For Self Regulating Low Temperature Heating Cable .....                                      | 655.37 | 38.51 |

**23 84 Humidity Control Equipment<sup>(23 80)</sup>****23 84 13 Humidifiers<sup>(23 84)</sup>****23 84 13 16 Wetted-Element Humidifiers<sup>(23 84 13)</sup>**

|                  |  |           |        |
|------------------|--|-----------|--------|
| 23 84 13 16-0001 | Electric Steam Humidifiers, Self-Steam Producing <sup>(23 84 13 16)</sup>  |           |        |
|                  | Note: Electronic modulating duct or air handling unit installation 208V-108V with 12" to 72" manifolds included. |           |        |
| 23 84 13 16-0002 | EA 1-96 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....                        | 13,150.02 | 631.09 |
| 23 84 13 16-0003 | EA 20-168 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....                      | 16,620.44 | 632.63 |

**23 84 13 23 Direct-Steam-Injection Humidifiers<sup>(23 84 13)</sup>**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>23 84 13 23-0001 Steam Type Pneumatically Controlled</b> <small>(23 84 13 23)</small>  |                           |                         |
| <small>Note: For duct or air handling installation standard unit with integral operator distribution manifold strainer trap and pneumatic modulating valve. Excludes humidistat and piping.</small> |                           |                         |
| 23 84 13 23-0002 EA 3-191 LB/Hour Steam Humidifier, 24" Manifold, Pneumatic Controls .....  | 2,218.72                  | 404.39                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>686.04</i>             |                         |
| 23 84 13 23-0003 EA 3-191 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls .....  | 2,218.72                  | 404.39                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>686.04</i>             |                         |
| 23 84 13 23-0004 EA 65-334 LB/Hour Steam Humidifier, 36" Manifold, Pneumatic Controls .....   | 3,131.80                  | 404.39                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>959.96</i>             |                         |
| 23 84 13 23-0005 EA 65-334 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls .....   | 3,284.98                  | 505.49                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>1,011.02</i>           |                         |
| 23 84 13 23-0006 EA 100-690 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls .....  | 4,633.14                  | 404.39                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>1,410.37</i>           |                         |
| 23 84 13 23-0007 EA 100-690 LB/Hour Steam Humidifier, 84" Manifold, Pneumatic Controls .....  | 4,786.32                  | 505.49                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>1,461.43</i>           |                         |
| 23 84 13 23-0008 EA 220-2,000 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls .....  | 7,132.18                  | 505.49                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>2,165.18</i>           |                         |
| 23 84 13 23-0009 EA 220-2,000 LB/Hour Steam Humidifier, 144" Manifold, Pneumatic Controls .....   | 7,323.65                  | 632.63                  |
| <i>For Electrically Controlled Unit, Add</i>  | <i>700.00</i>             |                         |
| <i>For Each Additional Manifold, Add</i>  | <i>2,229.01</i>           |                         |
| <br><b>23 84 13 29 Self-Contained Steam Humidifiers</b> <small>(23 84 13)</small>   |                           |                         |
| <b>23 84 13 29-0001 Residential Humidifiers</b> <small>(23 84 13 29)</small>  |                           |                         |
| <small>Note: Includes solenoid valve and flow through water supply.</small>   |                           |                         |
| 23 84 13 29-0002 EA Duct Or Furnace Mounted Humidifier, Residential Type.....   | 667.26                    | 76.59                   |
| <br><b>23 84 16 Mechanical Dehumidification Units</b> <small>(23 84)</small>  |                           |                         |
| <b>23 84 16 16 Indoor, Mechanical Dehumidification Units</b> <small>(23 84 16)</small>  |                           |                         |
| <b>23 84 16 16-0001 Mechanical Dehumidification Units</b> <small>(23 84 16 16)</small>  |                           |                         |
| <small>Note: Sized by moisture removal per 24 hours.</small>  |                           |                         |
| 23 84 16 16-0002 EA 65 Pint Per Day, 160 CFM, 8" Duct Connection, Refrigerant Dehumidifier.....   | 2,344.98                  | 76.70                   |
| 23 84 16 16-0003 EA 90 Pint Per Day, 235 CFM, 10"/6" Duct Connection, Refrigerant Dehumidifier .....  | 2,947.03                  | 89.47                   |
| 23 84 16 16-0004 EA 120 Pint Per Day, 350 CFM, 10"/6" Duct Connection, Refrigerant Dehumidifier .....   | 3,942.03                  | 102.27                  |
| <br><b>23 84 16 33 Portable Dehumidifiers</b> <small>(23 84 16)</small>   |                           |                         |
| <b>23 84 16 33-0001 Self Contained Free Standing Unit</b> <small>(23 84 16 33)</small>  |                           |                         |
| <small>Note: Sized by moisture removal per 24 hours.</small>  |                           |                         |
| 23 84 16 33-0002 EA 30 Pint/24 Hour Dehumidifier.....   | 569.22                    | 165.88                  |
| 23 84 16 33-0003 EA 50 Pint/24 Hour Dehumidifier.....   | 675.75                    | 165.88                  |
| 23 84 16 33-0004 EA 70 Pint/24 Hour Dehumidifier.....   | 739.66                    | 165.88                  |

**END OF SECTION 23**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

23 80 Decentralized Unitary HVAC Equipment

23 84 Humidity Control Equipment

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**THIS PAGE INTENTIONALLY LEFT BLANK**



| MINOR | CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|---------------------|------------------------|----------------------|
|-------|---------------------|------------------------|----------------------|

## 26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

### 26 01 Operation and Maintenance of Electrical Systems <sup>(26)</sup>

#### 26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution <sup>(26 01)</sup>

##### 26 01 10 91 Medium-Voltage Electrical Distribution Restoration <sup>(26 01 10)</sup>

##### 26 01 10 91-0001 Retrofit Distribution Enclosures <sup>(26 01 10 91)</sup>

Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

|                  |    |   |          |
|------------------|----|---|----------|
| 26 01 10 91-0002 | EA | 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C) .....                      | 562.22   |
|                  |    | Note: 2mm thick, aluminum frame, hinged cover.  |          |
|                  |    | <i>For Up To 20, Add</i>  | 116.97   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 93.58    |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 46.79    |
| 26 01 10 91-0003 | EA | 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C) .....                      | 729.93   |
|                  |    | Note: 2mm thick, aluminum frame, hinged cover.  |          |
|                  |    | <i>For Up To 20, Add</i>  | 158.90   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 127.12   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 63.56    |
| 26 01 10 91-0004 | EA | 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C) .....                      | 1,098.88 |
|                  |    | Note: 4mm thick, aluminum frame, hinged cover.  |          |
|                  |    | <i>For Up To 20, Add</i>  | 251.14   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 200.91   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 100.46   |
| 26 01 10 91-0005 | EA | 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO) .....                         | 557.44   |
|                  |    | Note: 2mm thick, aluminum frame, twist cover.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 115.78   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 92.62    |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 46.31    |
| 26 01 10 91-0006 | EA | 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2) .....                     | 560.39   |
|                  |    | Note: 2mm thick, aluminum frame, twist cover.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 116.52   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 93.21    |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 46.61    |
| 26 01 10 91-0007 | EA | 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3) .....                     | 716.27   |
|                  |    | Note: 2mm thick, aluminum frame, twist cover.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 155.49   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 124.39   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 62.19    |
| 26 01 10 91-0008 | EA | 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4) .....                     | 1,068.55 |
|                  |    | Note: 4mm thick, aluminum frame, twist cover.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 243.56   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 194.84   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 97.42    |
| 26 01 10 91-0009 | EA | 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR) .....        | 441.48   |
|                  |    | Note: 0.25mm thick, composite frame, metal grille reinforced polymer.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 86.79    |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 69.43    |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 34.72    |
| 26 01 10 91-0010 | EA | 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR) .....        | 622.60   |
|                  |    | Note: 0.25mm thick, composite frame, metal grille reinforced polymer.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 132.07   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 105.65   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 52.83    |
| 26 01 10 91-0011 | EA | 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR) .....        | 886.73   |
|                  |    | Note: 0.25mm thick, composite frame, metal grille reinforced polymer.   |          |
|                  |    | <i>For Up To 20, Add</i>  | 198.10   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 158.48   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 79.24    |
| 26 01 10 91-0012 | EA | 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) ..... | 808.36   |
|                  |    | Note: 4mm thick, aluminum frame, magnetic cover.  |          |
|                  |    | <i>For Up To 20, Add</i>  | 178.51   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 142.81   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 71.40    |
| 26 01 10 91-0013 | EA | 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) ..... | 1,111.39 |
|                  |    | Note: 4mm thick, aluminum frame, magnetic cover.  |          |
|                  |    | <i>For Up To 20, Add</i>  | 254.27   |
|                  |    | <i>For &gt;20 To 50, Add</i>  | 203.41   |
|                  |    | <i>For &gt;50 To 100, Add</i>   | 101.71   |

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 26 01 | 10 91-0014 | EA  | 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....  | 2,036.92               |                      |
|       |            |     | Note: 4mm thick, aluminum frame, magnetic cover.  |                        |                      |
|       |            |     | For Up To 20, Add   | 485.65                 |                      |
|       |            |     | For >20 To 50, Add  | 388.52                 |                      |
|       |            |     | For >50 To 100, Add   | 194.26                 |                      |
| 26 01 | 10 91-0015 | EA  | 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)..... | 928.80                 |                      |
|       |            |     | Note: 4mm thick, aluminum frame, magnetic cover.  |                        |                      |
|       |            |     | For Up To 20, Add   | 208.62                 |                      |
|       |            |     | For >20 To 50, Add  | 166.89                 |                      |
|       |            |     | For >50 To 100, Add   | 83.45                  |                      |
| 26 01 | 10 91-0016 | EA  | 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)..... | 1,367.57               |                      |
|       |            |     | Note: 4mm thick, aluminum frame, magnetic cover.  |                        |                      |
|       |            |     | For Up To 20, Add   | 318.31                 |                      |
|       |            |     | For >20 To 50, Add  | 254.65                 |                      |
|       |            |     | For >50 To 100, Add   | 127.32                 |                      |

**26 01 20 Operation and Maintenance of Low-Voltage Electrical****Distribution** (26 01)**26 01 20 91 Low-Voltage Electrical Distribution Restoration** (26 01 20)

|                  |    |  |   |       |  |
|------------------|----|--|---|-------|--|
| 26 01 20 91-0001 |    |  | Lock Out/Tag Out Devices <small>(26 01 20 91)</small><br>Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing. |       |  |
| 26 01 20 91-0002 | EA |  | Lock Out/Tag Out Local Disconnect.....  | 55.45 |  |
|                  |    |  | Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).  |       |  |
| 26 01 20 91-0003 | EA |  | Lock Out/Tag Out Breaker Or Motor Starter.....  | 55.45 |  |
|                  |    |  | Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).  |       |  |
| 26 01 20 91-0004 | EA |  | Lock Out Padlock Device.....  | 15.41 |  |
|                  |    |  | Note: Includes the installation and removal of pad lock when required   |       |  |
| 26 01 20 91-0005 | EA |  | Lock Out Tags.....  | 5.75  |  |
|                  |    |  | Note: Includes filling out tag information, installation and removal of identifying tags.   |       |  |
| 26 01 20 91-0006 |    |  | Existing Circuit Tracing <small>(26 01 20 91)</small>   |       |  |
| 26 01 20 91-0007 | EA |  | Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....  | 32.05 |  |
| 26 01 20 91-0008 | EA |  | Lighting, Existing Circuit Tracing Per Circuit.....   | 32.05 |  |

**26 01 30 Operation and Maintenance of Facility Electrical Power****Generating and Storing Equipment** (26 01)**26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration** (26 01)

|                  |    |  |   |          |  |
|------------------|----|--|---|----------|--|
| 26 01 30 91-0001 |    |  | Emergency Generator Permits <small>(26 01 30 91)</small>      |          |  |
| 26 01 30 91-0002 |    |  | Air Pollution Control Board <small>(26 01 30 91-0001)</small> |          |  |
| 26 01 30 91-0003 | EA |  | APCD Permit To Construct And Operate Emergency Generator..... | 4,871.26 |  |

**26 01 50 Operation and Maintenance of Lighting** (26 01)**26 01 50 51 Luminaire Relamping** (26 01 50)

|                  |    |  |   |       |  |
|------------------|----|--|---|-------|--|
| 26 01 50 51-0001 |    |  | Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small><br>Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. |       |  |
| 26 01 50 51-0002 |    |  | Halogen Lamps <small>(26 01 50 51-0001)</small>   |       |  |
| 26 01 50 51-0003 | EA |  | 300 Watt, T3, Tungsten Halogen Lamp.....  | 50.48 |  |
| 26 01 50 51-0004 | EA |  | 500 Watt, T3, Tungsten Halogen Lamp.....  | 63.43 |  |
| 26 01 50 51-0005 | EA |  | 1,000 Watt, T3, Tungsten Halogen Lamp.....  | 92.38 |  |
| 26 01 50 51-0006 | EA |  | 60 Watt, PAR38, Halogen Lamp.....   | 28.32 |  |
| 26 01 50 51-0007 | EA |  | 75 Watt, PAR38, Halogen Lamp.....   | 28.32 |  |
| 26 01 50 51-0008 | EA |  | 90 Watt, PAR38, Halogen Lamp.....   | 27.17 |  |
| 26 01 50 51-0009 | EA |  | 100 Watt, PAR38, Halogen Lamp.....  | 27.17 |  |
| 26 01 50 51-0010 | EA |  | 60 Watt, PAR38, Halogen IR Reflective Lamp.....   | 40.75 |  |
| 26 01 50 51-0011 | EA |  | 67 Watt, PAR38, Halogen IR Reflective Lamp.....   | 44.41 |  |
| 26 01 50 51-0012 | EA |  | 70 Watt, PAR38, Halogen IR Reflective Lamp.....   | 43.46 |  |
| 26 01 50 51-0013 | EA |  | 90 Watt, PAR38, Halogen IR Reflective Lamp.....   | 46.26 |  |
| 26 01 50 51-0014 | EA |  | 100 Watt, PAR38, Halogen IR Reflective Lamp.....  | 46.85 |  |
| 26 01 50 51-0015 | EA |  | 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....  | 24.31 |  |
| 26 01 50 51-0016 | EA |  | 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....  | 24.31 |  |
| 26 01 50 51-0017 | EA |  | 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....  | 26.22 |  |
| 26 01 50 51-0018 | EA |  | 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....  | 26.22 |  |
| 26 01 50 51-0019 |    |  | Incandescent Lamps <small>(26 01 50 51-0001)</small>  |       |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp .....       | 8.43                      |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -2.55                     |                         |
| 26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp .....       | 9.88                      |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -2.55                     |                         |
| 26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp .....       | 11.53                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -2.55                     |                         |
| 26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp .....          | 13.59                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -2.55                     |                         |
| 26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp .....     | 10.81                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -2.55                     |                         |
| 26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp .....            | 16.17                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -3.06                     |                         |
| 26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp .....          | 19.06                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -3.06                     |                         |
| 26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp .....         | 17.91                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -3.06                     |                         |
| 26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp .....         | 28.87                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -3.06                     |                         |
| 26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp .....         | 56.98                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -3.56                     |                         |
| 26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp .....         | 65.03                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -3.56                     |                         |
| <br>  |                           |                         |
| <b>26 01 50 51-0031 Exit Light Lamps</b> <small>(26 01 50 51-0001)</small>    |                           |                         |
| 26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps .....           | 136.46                    |                         |
| <i>For Green LED Lamps, Add</i>   | 25.00                     |                         |
| 26 01 50 51-0033 EA Fluorescent Lamp For Exit Light .....                     | 38.13                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -10.19                    |                         |
| 26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign .....  | 41.69                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -5.10                     |                         |
| <br>  |                           |                         |
| <b>26 01 50 51-0035 Fluorescent Lamps</b> <small>(26 01 50 51-0001)</small>   |                           |                         |
| 26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp .....                   | 15.39                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp .....                    | 18.02                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp .....                    | 20.65                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp .....                    | 20.52                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp .....                    | 25.19                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp .....                    | 22.42                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp .....                    | 22.31                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp .....                  | 34.22                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp .....                    | 26.74                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp .....                  | 22.02                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp .....                   | 17.27                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp .....                   | 19.40                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp .....                   | 19.48                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp .....                   | 19.14                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp .....                   | 27.35                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp .....                   | 23.52                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.58                     |                         |
| 26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp .....     | 38.12                     |                         |
| 26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp .....  | 22.26                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp .....  | 18.73                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp ..... | 18.19                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp ..... | 19.88                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp .....  | 31.90                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -5.10                     |                         |
| 26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp ..... | 30.86                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -5.10                     |                         |
| 26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp .....                     | 16.81                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |
| 26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp .....                     | 16.57                     |                         |
| <i>For Multiple Lamps In Fixture, Deduct</i>                                  | -4.07                     |                         |

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp .....17.03<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07           |                           |                         |
| 26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp .....17.70<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07          |                           |                         |
| 26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp .....20.03<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07          |                           |                         |
| 26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp .....21.88<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58          |                           |                         |
| 26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp .....21.28<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58          |                           |                         |
| 26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp .....23.03<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58        |                           |                         |
| 26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp .....19.62  |                           |                         |
| 26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....12.90<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55  |                           |                         |
| 26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....14.11<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55  |                           |                         |
| 26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....27.44<br><i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55 |                           |                         |
| 26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....36.22  |                           |                         |
| 26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....36.22  |                           |                         |
| 26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....65.29  |                           |                         |
| 26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....24.62  |                           |                         |
| 26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....13.32   |                           |                         |
| 26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....11.70  |                           |                         |
| 26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....12.20   |                           |                         |
| 26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....45.68   |                           |                         |
| 26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....49.70   |                           |                         |
| 26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....93.32   |                           |                         |
| 26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....111.49   |                           |                         |
| 26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....115.19   |                           |                         |
| 26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....43.00  |                           |                         |
| 26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....44.78  |                           |                         |
| 26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....51.44  |                           |                         |
| <b>26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)</b>  |                           |                         |
| 26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp .....55.06  |                           |                         |
| 26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp .....52.90  |                           |                         |
| 26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp .....59.72   |                           |                         |
| 26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp .....58.17   |                           |                         |
| 26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp .....57.72   |                           |                         |
| 26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp .....58.03   |                           |                         |
| 26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp .....68.89   |                           |                         |
| 26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....79.30   |                           |                         |
| 26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....78.87   |                           |                         |
| <b>26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)</b>  |                           |                         |
| 26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp .....46.28<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92    |                           |                         |
| 26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp .....46.28<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92    |                           |                         |
| 26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp .....47.20<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92    |                           |                         |
| 26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp .....48.97<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92   |                           |                         |
| 26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp .....47.20<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92   |                           |                         |
| 26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp .....47.20<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92   |                           |                         |
| 26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp .....44.57<br><i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92   |                           |                         |
| 26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp .....97.82   |                           |                         |
| <b>26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)</b>   |                           |                         |
| 26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp .....110.24  |                           |                         |
| 26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp .....122.46  |                           |                         |
| 26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp .....125.21  |                           |                         |
| 26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp .....127.96  |                           |                         |
| 26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp .....138.97   |                           |                         |
| 26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp .....188.49   |                           |                         |
| <b>26 01 50 51-0112 LED Lamps (26 01 50 51-0001)</b>   |                           |                         |
| <b>26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)</b>  |                           |                         |
| 26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....18.06      |                           |                         |
| <b>26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)</b>  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 01 50 51-0116 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....            | 23.32                     |                         |
| 26 01 50 51-0117 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....           | 23.32                     |                         |
| 26 01 50 51-0118 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....           | 37.44                     |                         |
| 26 01 50 51-0119 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....           | 26.89                     |                         |
| 26 01 50 51-0120 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....          | 46.26                     |                         |
| <b>26 01 50 51-0121 LED Lamps, Medium Base, BR30 Or BR40</b> <small>(26 01 50 51-0112)</small>                                   |                           |                         |
| 26 01 50 51-0122 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) .....         | 31.85                     |                         |
| 26 01 50 51-0123 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) .....          | 28.87                     |                         |
| 26 01 50 51-0124 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....          | 36.79                     |                         |
| 26 01 50 51-0125 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....        | 31.52                     |                         |
| 26 01 50 51-0126 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....          | 40.32                     |                         |
| 26 01 50 51-0127 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....          | 31.52                     |                         |
| <b>26 01 50 51-0128 LED Lamps, Medium Base, PAR</b> <small>(26 01 50 51-0112)</small>  |                           |                         |
| 26 01 50 51-0129 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star) .....               | 34.67                     |                         |
| 26 01 50 51-0130 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star) .....   | 45.63                     |                         |
| 26 01 50 51-0131 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star) ..... | 45.63                     |                         |
| 26 01 50 51-0132 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star) ..... | 43.87                     |                         |
| 26 01 50 51-0133 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star) .....   | 42.10                     |                         |
| 26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star) .....    | 42.10                     |                         |
| 26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star) .....    | 77.74                     |                         |
| 26 01 50 51-0136 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....              | 45.63                     |                         |
| 26 01 50 51-0137 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....              | 43.87                     |                         |
| 26 01 50 51-0138 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star) .....             | 45.63                     |                         |
| 26 01 50 51-0139 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....             | 45.63                     |                         |
| <b>26 01 50 51-0140 LED Lamps, GU Base, MR16</b> <small>(26 01 50 51-0112)</small>   |                           |                         |
| 26 01 50 51-0141 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star) .....                          | 25.34                     |                         |
| 26 01 50 51-0142 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star) .....                  | 31.85                     |                         |
| 26 01 50 51-0143 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star) .....                 | 34.67                     |                         |
| <b>26 01 50 51-0144 LED Lamps, PL Series</b> <small>(26 01 50 51-0112)</small>   |                           |                         |
| 26 01 50 51-0145 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23) .....                             | 17.58                     |                         |
| 26 01 50 51-0146 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR) .....                              | 23.84                     |                         |
| 26 01 50 51-0147 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR) .....                              | 20.99                     |                         |
| 26 01 50 51-0148 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR) .....                              | 22.77                     |                         |
| 26 01 50 51-0149 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR) .....                              | 22.77                     |                         |
| 26 01 50 51-0150 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR) .....                   | 25.98                     |                         |
| 26 01 50 51-0151 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR) .....                           | 22.77                     |                         |
| 26 01 50 51-0152 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR) .....                           | 22.77                     |                         |
| 26 01 50 51-0153 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR) .....                           | 22.77                     |                         |
| 26 01 50 51-0154 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR) .....                           | 22.77                     |                         |
| 26 01 50 51-0155 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR) .....                               | 24.91                     |                         |
| 26 01 50 51-0156 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR) .....                               | 24.91                     |                         |
| 26 01 50 51-0157 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR) .....                               | 24.91                     |                         |
| 26 01 50 51-0158 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR) .....                               | 24.91                     |                         |
| 26 01 50 51-0159 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR) .....                     | 23.84                     |                         |
| 26 01 50 51-0160 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR) .....                           | 23.84                     |                         |
| 26 01 50 51-0161 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR) .....                           | 23.84                     |                         |
| 26 01 50 51-0162 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR) .....                           | 24.56                     |                         |
| 26 01 50 51-0163 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR) .....                           | 24.56                     |                         |
| 26 01 50 51-0164 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP) .....                             | 24.71                     |                         |
| 26 01 50 51-0165 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP) .....                             | 24.71                     |                         |
| 26 01 50 51-0166 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP) .....                             | 24.71                     |                         |
| 26 01 50 51-0167 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP) .....                             | 24.71                     |                         |
| 26 01 50 51-0168 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP) .....                             | 25.27                     |                         |
| 26 01 50 51-0169 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP) .....                             | 25.27                     |                         |
| 26 01 50 51-0170 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26) .....                            | 25.27                     |                         |
| 26 01 50 51-0171 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26) .....                            | 25.27                     |                         |
| 26 01 50 51-0172 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26) .....                            | 25.27                     |                         |
| 26 01 50 51-0173 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24) .....                           | 25.27                     |                         |
| 26 01 50 51-0174 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24) .....                           | 25.27                     |                         |
| 26 01 50 51-0175 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24) .....                           | 25.27                     |                         |
| 26 01 50 51-0176 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP) .....                             | 30.85                     |                         |
| 26 01 50 51-0177 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP) .....                             | 30.85                     |                         |
| 26 01 50 51-0178 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP) .....                             | 30.85                     |                         |
| 26 01 50 51-0179 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP) .....                             | 29.56                     |                         |
| 26 01 50 51-0180 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP) .....                             | 29.56                     |                         |
| 26 01 50 51-0181 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP) .....                             | 29.56                     |                         |
| 26 01 50 51-0182 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898) .....               | 28.13                     |                         |
| <b>26 01 50 51-0183 HID LED Lamps, Medium Base E26</b> <small>(26 01 50 51-0112)</small>   |                           |                         |
| 26 01 50 51-0184 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26) .....                      | 54.19                     |                         |
| 26 01 50 51-0185 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26) .....                      | 54.19                     |                         |







Table with 3 columns: MINOR, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST

26 01 50 51-0266

HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0112)

Table listing various lamp specifications such as wattage (120W, 27W, 45W, 80W, 100W, 150W, 200W, 250W), CCT (2700K, 3000K, 4000K, 5000K), and base types (E39, EX39, G23, G24, etc.) with corresponding costs.

26 01 50 51-0332

LED Lamps, 2G11 Base (26 01 50 51-0112)

Table entry for 19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR) with cost 49.74

26 01 50 51-0334

LED Lamps, GX23 Or G23 Base (26 01 50 51-0112)

Table entry for 5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4) with cost 25.45

26 01 50 51-0336

LED Lamps, G24 Base (26 01 50 51-0112)

Table entry for 5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R) with cost 32.49





**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....<br><i>For Pulse Start Ballast, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 246.38<br>19.24<br>16.20  | 38.58                   |
| 26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....<br><i>For Pulse Start Ballast, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 336.63<br>28.26<br>16.20  | 38.58                   |
| <b>26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0036)</small>  |                           |                         |
| 26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 264.88<br>16.20           | 38.58                   |
| 26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                | 282.27<br>16.20           | 38.58                   |
| <b>26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>   |                           |                         |
| <b>26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0046)</small>   |                           |                         |
| 26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 431.54<br>16.20           | 38.58                   |
| <b>26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0046)</small>   |                           |                         |
| 26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 657.23<br>16.17           | 38.51                   |
| 26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 731.34<br>16.17           | 38.51                   |
| 26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 705.70<br>16.17           | 38.51                   |
| <b>26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>  |                           |                         |
| <b>26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0053)</small>  |                           |                         |
| 26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 528.08<br>16.20           | 38.58                   |
| 26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 597.47<br>16.20           | 38.58                   |
| 26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 784.63<br>16.20           | 38.58                   |
| 26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 780.60<br>16.20           | 38.58                   |
| 26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 1,088.85<br>17.13         | 41.67                   |
| 26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 1,088.85<br>17.13         | 41.67                   |
| 26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                            | 753.06<br>16.20           | 38.58                   |
| 26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                | 883.50<br>16.20           | 38.58                   |
| <b>26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0053)</small>  |                           |                         |
| 26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 973.19<br>16.20           | 38.58                   |
| 26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 927.22<br>16.20           | 38.58                   |
| 26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 1,187.85<br>16.20         | 38.58                   |
| 26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 1,187.85<br>16.20         | 38.58                   |
| <b>26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>   |                           |                         |
| <b>26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0068)</small>   |                           |                         |
| 26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 591.67<br>16.20           | 38.58                   |
| 26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 637.99<br>16.20           | 38.58                   |
| 26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 633.43<br>16.20           | 38.58                   |
| 26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 664.46<br>16.20           | 38.58                   |
| 26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 1,048.38<br>17.13         | 41.67                   |
| 26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 1,285.34<br>17.13         | 41.67                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 01 50 52-0076 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast .....978.58  | 978.58                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0077 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast .....892.18  | 892.18                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| <b>26 01 50 52-0078 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0068)</b>   |                           |                         |
| 26 01 50 52-0079 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....759.74   | 759.74                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0080 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast .....818.16  | 818.16                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0081 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....1,214.81   | 1,214.81                  | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0082 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....1,047.22   | 1,047.22                  | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| <b>26 01 50 52-0083 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0008)</b>   |                           |                         |
| <b>26 01 50 52-0084 Electronic Low Frequency High Intensity Discharge (HID) Ballasts(26 01 50 52-0083)</b>  |                           |                         |
| 26 01 50 52-0085 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....244.83   | 244.83                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0086 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....244.83  | 244.83                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0087 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....274.11  | 274.11                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0088 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....684.43  | 684.43                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0089 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....684.43  | 684.43                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0090 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....684.43  | 684.43                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0091 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....684.43  | 684.43                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| 26 01 50 52-0092 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast .....684.43  | 684.43                    | 38.58                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 16.20                     |                         |
| <b>26 01 50 53 Lens and Accessory Replacement (26 01 50)</b>  |                           |                         |
| <b>26 01 50 53-0001 Lens and Accessory Replacement(26 01 50 53)</b>   |                           |                         |
| 26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver.....92.40  | 92.40                     |                         |
| 26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures .....220.02   | 220.02                    |                         |
| 26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole .....235.04  | 235.04                    |                         |
| 26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....105.56   | 105.56                    |                         |
| 26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....37.26  | 37.26                     |                         |
| 26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....38.30  | 38.30                     |                         |
| 26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....42.80  | 42.80                     |                         |
| 26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder.....17.04  | 17.04                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 4.62                      |                         |
| 26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder .....17.20  | 17.20                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 4.62                      |                         |
| 26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder .....18.57  | 18.57                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 4.62                      |                         |
| 26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type .....20.68   | 20.68                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 4.62                      |                         |
| 26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type .....22.06   | 22.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 4.62                      |                         |
| 26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in .....18.36   | 18.36                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 4.62                      |                         |
| 26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes .....64.36   | 64.36                     |                         |
| <b>26 01 50 81 Luminaire Replacement (26 01 50)</b>   |                           |                         |
| <b>26 01 50 81-0001 Retrofit Lighting Fixtures (26 01 50 81)</b>  |                           |                         |
| <b>26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures (26 01 50 81-0001)</b>   |                           |                         |
| <b>26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) (26 01 50 81-0002)</b>   |                           |                         |
| Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling. |                           |                         |
| 26 01 50 81-0004 EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927) .....119.47   | 119.47                    |                         |
| 26 01 50 81-0005 EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930) .....119.47   | 119.47                    |                         |
| 26 01 50 81-0006 EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940) .....119.47   | 119.47                    |                         |
| 26 01 50 81-0007 EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827) .....101.80  | 101.80                    |                         |
| 26 01 50 81-0008 EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830) .....101.80  | 101.80                    |                         |







**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B) .....   | 189.36                    | 21.08                   |
| 26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....   | 95.90                     | 14.06                   |
| 26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....  | 36.09                     | 14.06                   |
| 26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....  | 38.36                     | 14.06                   |
| 26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A).....  | 93.49                     | 21.08                   |
| Note: includes dongle   |                           |                         |
| <b>26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures</b> <small>(26 01 50 81-0001)</small>  |                           |                         |
| Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal.  |                           |                         |
| <b>26 01 50 81-0109 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector</b> <small>(26 01 50 81-0108)</small>  |                           |                         |
| Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.   |                           |                         |
| 26 01 50 81-0110 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....  | 115.86                    |                         |
| <i>For Specular Ballast Cover, Add</i>  |                           | 12.39                   |
| 26 01 50 81-0111 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....   | 122.15                    |                         |
| <i>For Specular Ballast Cover, Add</i>  |                           | 13.65                   |
| 26 01 50 81-0112 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....   | 163.31                    |                         |
| <i>For Specular Ballast Cover, Add</i>  |                           | 21.88                   |
| 26 01 50 81-0113 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps.....  | 184.79                    |                         |
| <i>For Specular Ballast Cover, Add</i>  |                           | 26.18                   |
| <b>26 01 50 81-0114 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector</b> <small>(26 01 50 81-0108)</small>   |                           |                         |
| Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.  |                           |                         |
| 26 01 50 81-0115 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp.....   | 121.92                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 13.60                   |
| 26 01 50 81-0116 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....  | 128.93                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 15.01                   |
| 26 01 50 81-0117 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....  | 171.78                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 23.58                   |
| 26 01 50 81-0118 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps.....   | 213.95                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 32.01                   |
| <b>26 01 50 81-0119 Retrofit Existing (T12) Troffer Style Fluorescent Fixtures</b> <small>(26 01 50 81-0108)</small>  |                           |                         |
| Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.  |                           |                         |
| 26 01 50 81-0120 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps.....  | 153.06                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 16.75                   |
| 26 01 50 81-0121 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps.....  | 159.35                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 18.01                   |
| 26 01 50 81-0122 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps.....  | 162.98                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 18.73                   |
| 26 01 50 81-0123 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps.....  | 180.37                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 22.21                   |
| 26 01 50 81-0124 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps.....   | 214.84                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 29.11                   |
| 26 01 50 81-0125 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps.....  | 166.61                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 19.46                   |
| 26 01 50 81-0126 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps.....  | 180.98                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 22.33                   |
| 26 01 50 81-0127 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps.....   | 192.93                    |                         |
| <i>For Specular Reflector, Add</i>  |                           | 24.72                   |
| <b>26 01 50 81-0128 Retrofit Existing Recessed Lay-In/Troffer Fixtures</b> <small>(26 01 50 81-0001)</small>  |                           |                         |
| <b>26 01 50 81-0129 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia)</b> <small>(26 01 50 81-0128)</small>  |                           |                         |
| Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling. |                           |                         |
| 26 01 50 81-0130 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....   | 178.33                    |                         |
| 26 01 50 81-0131 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....   | 178.33                    |                         |
| 26 01 50 81-0132 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....   | 178.33                    |                         |
| 26 01 50 81-0133 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....   | 192.15                    |                         |
| 26 01 50 81-0134 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....   | 178.33                    |                         |
| 26 01 50 81-0135 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....   | 178.33                    |                         |
| 26 01 50 81-0136 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....   | 178.33                    |                         |
| 26 01 50 81-0137 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....   | 192.15                    |                         |



|                         | MINOR<br>CSI UOM DESCRIPTION |   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------------------|---|---------------------------|-------------------------|
| 26 01 50 81-0138        | EA                           | 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....  | 179.33                    |                         |
| 26 01 50 81-0139        | EA                           | 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....  | 179.33                    |                         |
| 26 01 50 81-0140        | EA                           | 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....  | 179.33                    |                         |
| 26 01 50 81-0141        | EA                           | 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....  | 193.15                    |                         |
| 26 01 50 81-0142        | EA                           | 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....  | 179.33                    |                         |
| 26 01 50 81-0143        | EA                           | 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....  | 179.33                    |                         |
| 26 01 50 81-0144        | EA                           | 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....  | 179.33                    |                         |
| 26 01 50 81-0145        | EA                           | 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....  | 193.15                    |                         |
| <b>26 01 50 81-0146</b> |                              | <b>LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED)</b> <small>(26 01 50 81-0128)</small><br>Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.   |                           |                         |
| 26 01 50 81-0147        | EA                           | 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025) .....   | 238.55                    |                         |
| 26 01 50 81-0148        | EA                           | 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045) .....   | 247.95                    |                         |
| <b>26 01 50 81-0149</b> |                              | <b>LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™)</b> <small>(26 01 50 81-0128)</small><br>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling. |                           |                         |
| 26 01 50 81-0150        | EA                           | 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L) .....  | 364.50                    |                         |
| 26 01 50 81-0151        | EA                           | 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L) .....  | 372.93                    |                         |
| 26 01 50 81-0152        | EA                           | 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L) .....  | 364.50                    |                         |
| 26 01 50 81-0153        | EA                           | 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L) .....  | 372.93                    |                         |
| 26 01 50 81-0154        | EA                           | 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L) .....  | 415.10                    |                         |
| 26 01 50 81-0155        | EA                           | 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L) .....  | 427.76                    |                         |
| 26 01 50 81-0156        | EA                           | 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L) .....  | 457.27                    |                         |
| <b>26 01 50 81-0157</b> |                              | <b>LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion)</b> <small>(26 01 50 81-0128)</small><br>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.    |                           |                         |
| 26 01 50 81-0158        | EA                           | 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST) .....  | 338.69                    |                         |
| 26 01 50 81-0159        | EA                           | 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST) .....  | 350.46                    |                         |
| 26 01 50 81-0160        | EA                           | 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST) .....  | 353.98                    |                         |
| 26 01 50 81-0161        | EA                           | 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST) .....  | 365.74                    |                         |
| 26 01 50 81-0162        | EA                           | 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST) .....   | 259.29                    |                         |
| 26 01 50 81-0163        | EA                           | 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST) .....   | 264.87                    |                         |
| 26 01 50 81-0164        | EA                           | 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST) .....   | 273.81                    |                         |
| 26 01 50 81-0165        | EA                           | 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST) .....   | 279.40                    |                         |
| 26 01 50 81-0166        | EA                           | 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST) .....   | 341.98                    |                         |
| 26 01 50 81-0167        | EA                           | 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST) .....   | 404.56                    |                         |
| <b>26 01 50 81-0168</b> |                              | <b>Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)</b> <small>(26 01 50 81-0128)</small><br>Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.   |                           |                         |
| 26 01 50 81-0169        | EA                           | 1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) .....   | 302.40                    |                         |

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....   | 229.52                    |                         |
| 26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 310.27                    |                         |
| 26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 237.32                    |                         |
| 26 01 50 81-0173 EA 3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 324.48                    |                         |
| 26 01 50 81-0174 EA 3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 257.27                    |                         |
| 26 01 50 81-0175 EA 1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....   | 355.10                    |                         |
| 26 01 50 81-0176 EA 1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....   | 282.03                    |                         |
| 26 01 50 81-0177 EA 2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 362.46                    |                         |
| 26 01 50 81-0178 EA 2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 289.46                    |                         |
| 26 01 50 81-0179 EA 3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 376.49                    |                         |
| 26 01 50 81-0180 EA 3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....  | 309.30                    |                         |
| <b>26 01 50 81-0181 LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) <sup>(26 01 50 81-0128)</sup></b><br>Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling. |                           |                         |
| 26 01 50 81-0182 EA 3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....  | 661.10                    |                         |
| 26 01 50 81-0183 EA 4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....  | 733.01                    |                         |
| <b>26 01 50 81-0184 Retrofit Existing HID Fixtures <sup>(26 01 50 81-0001)</sup></b>   |                           |                         |
| 26 01 50 81-0185 EA Tear Drop LED Retrofit Kit (Holophane LTDR2 P35S 40K AS BK TDRD 3 P).....  | 1,492.17                  |                         |
| <b>26 01 50 81-0186 LED Lighting Retrofits For Existing Fluorescent Fixtures <sup>(26 01 50 81-0001)</sup></b><br>Note: Excludes recycling or disposal of lamps and ballasts.  |                           |                         |
| <b>26 01 50 81-0187 LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) <sup>(26 01 50 81-0186)</sup></b>   |                           |                         |
| 26 01 50 81-0188 EA 2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 133.86                    |                         |
| For >25 To 50, Deduct  | -6.69                     |                         |
| For >50 To 100, Deduct   | -11.77                    |                         |
| For >100, Deduct   | -20.32                    |                         |
| 26 01 50 81-0189 EA 2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....   | 189.20                    |                         |
| For >25 To 50, Deduct  | -9.46                     |                         |
| For >50 To 100, Deduct   | -15.92                    |                         |
| For >100, Deduct   | -25.85                    |                         |
| 26 01 50 81-0190 EA 3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 145.22                    |                         |
| For >25 To 50, Deduct  | -7.26                     |                         |
| For >50 To 100, Deduct   | -12.72                    |                         |
| For >100, Deduct   | -21.84                    |                         |
| 26 01 50 81-0191 EA 3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 134.43                    |                         |
| For >25 To 50, Deduct  | -6.72                     |                         |
| For >50 To 100, Deduct   | -11.91                    |                         |
| For >100, Deduct   | -20.76                    |                         |
| 26 01 50 81-0192 EA 4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 172.92                    |                         |
| For >25 To 50, Deduct  | -8.65                     |                         |
| For >50 To 100, Deduct   | -14.89                    |                         |
| For >100, Deduct   | -24.99                    |                         |
| 26 01 50 81-0193 EA 4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 220.87                    |                         |
| For >25 To 50, Deduct  | -11.04                    |                         |
| For >50 To 100, Deduct   | -18.49                    |                         |
| For >100, Deduct   | -29.79                    |                         |
| 26 01 50 81-0194 EA 4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 144.94                    |                         |
| For >25 To 50, Deduct  | -7.25                     |                         |
| For >50 To 100, Deduct   | -12.80                    |                         |
| For >100, Deduct   | -22.20                    |                         |
| 26 01 50 81-0195 EA 4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....   | 144.94                    |                         |
| For >25 To 50, Deduct  | -7.25                     |                         |
| For >50 To 100, Deduct   | -12.80                    |                         |
| For >100, Deduct   | -22.20                    |                         |



| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 01 50 81-0196 EA 4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....                                   | 182.51       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -9.13        |            |
| <i>For &gt;50 To 100, Deduct</i>   | -15.61       |            |
| <i>For &gt;100, Deduct</i>   | -25.95       |            |
| 26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....                                   | 156.93       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -7.85        |            |
| <i>For &gt;50 To 100, Deduct</i>   | -13.70       |            |
| <i>For &gt;100, Deduct</i>   | -23.39       |            |
| 26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....                                   | 156.93       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -7.85        |            |
| <i>For &gt;50 To 100, Deduct</i>   | -13.70       |            |
| <i>For &gt;100, Deduct</i>   | -23.39       |            |
| <b>26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia)</b> <small>(26 01 50 81-0186)</small>  |              |            |
| 26 01 50 81-0200 EA 1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....                          | 303.64       |            |
| <i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>   | 191.26       |            |
| <i>For nLight AIR radio module without sensor (nLight RIO), Add</i>  | 124.32       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -15.18       |            |
| <i>For &gt;50 To 100, Deduct</i>   | -24.70       |            |
| <i>For &gt;100, Deduct</i>   | -38.07       |            |
| 26 01 50 81-0201 EA 1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....                            | 326.32       |            |
| <i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>   | 191.26       |            |
| <i>For nLight AIR radio module without sensor (nLight RIO), Add</i>  | 124.32       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -16.32       |            |
| <i>For &gt;50 To 100, Deduct</i>   | -26.40       |            |
| <i>For &gt;100, Deduct</i>   | -40.33       |            |
| 26 01 50 81-0202 EA 2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....                           | 343.27       |            |
| <i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>   | 191.26       |            |
| <i>For nLight AIR radio module without sensor (nLight RIO), Add</i>  | 124.32       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -17.16       |            |
| <i>For &gt;50 To 100, Deduct</i>   | -27.67       |            |
| <i>For &gt;100, Deduct</i>   | -42.03       |            |
| 26 01 50 81-0203 EA 2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....                         | 369.77       |            |
| <i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>   | 191.26       |            |
| <i>For nLight AIR radio module without sensor (nLight RIO), Add</i>  | 124.32       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -18.49       |            |
| <i>For &gt;50 To 100, Deduct</i>   | -29.66       |            |
| <i>For &gt;100, Deduct</i>   | -44.68       |            |
| 26 01 50 81-0204 EA 2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....                       | 398.22       |            |
| <i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>   | 191.26       |            |
| <i>For nLight AIR radio module without sensor (nLight RIO), Add</i>  | 124.32       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -19.91       |            |
| <i>For &gt;50 To 100, Deduct</i>   | -32.18       |            |
| <i>For &gt;100, Deduct</i>   | -49.06       |            |
| 26 01 50 81-0205 EA 2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....                       | 428.98       |            |
| <i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>   | 191.26       |            |
| <i>For nLight AIR radio module without sensor (nLight RIO), Add</i>  | 124.32       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -21.45       |            |
| <i>For &gt;50 To 100, Deduct</i>   | -34.48       |            |
| <i>For &gt;100, Deduct</i>   | -52.14       |            |
| <b>26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights)</b> <small>(26 01 50 81-0186)</small>   |              |            |
| Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling. |              |            |
| 26 01 50 81-0207 EA 2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....  | 120.36       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -6.02        |            |
| <i>For &gt;50 To 100, Deduct</i>   | -10.76       |            |
| <i>For &gt;100, Deduct</i>   | -18.97       |            |
| 26 01 50 81-0208 EA 2' Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....  | 120.36       |            |
| <i>For &gt;25 To 50, Deduct</i>  | -6.02        |            |
| <i>For &gt;50 To 100, Deduct</i>   | -10.76       |            |
| <i>For &gt;100, Deduct</i>   | -18.97       |            |

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 01 50 81-0209 | EA  |     | 4' Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....                               | 155.41                 |                      |
|                  |     |     | Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                       |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.77                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.58                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -23.24                 |                      |
| 26 01 50 81-0210 | EA  |     | 4' Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....                               | 155.41                 |                      |
|                  |     |     | Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                       |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.77                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.58                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -23.24                 |                      |
| 26 01 50 81-0211 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....                             | 155.52                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                      |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.78                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.59                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -23.25                 |                      |
| 26 01 50 81-0212 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....              | 168.09                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                 |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -8.40                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -14.53                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -24.51                 |                      |
| 26 01 50 81-0213 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....                             | 155.52                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                      |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.78                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.59                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -23.25                 |                      |
| 26 01 50 81-0214 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....              | 168.09                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                 |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -8.40                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -14.53                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -24.51                 |                      |
| 26 01 50 81-0215 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....                             | 155.52                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                      |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.78                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.59                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -23.25                 |                      |
| 26 01 50 81-0216 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....              | 168.09                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                 |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -8.40                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -14.53                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -24.51                 |                      |
| 26 01 50 81-0217 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....                             | 155.52                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                      |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -7.78                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.59                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -23.25                 |                      |
| 26 01 50 81-0218 | EA  |     | 4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....              | 168.09                 |                      |
|                  |     |     | Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                 |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -8.40                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -14.53                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -24.51                 |                      |
| 26 01 50 81-0219 | EA  |     | 4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....              | 167.98                 |                      |
|                  |     |     | Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                       |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -8.40                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -14.52                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -24.50                 |                      |
| 26 01 50 81-0220 | EA  |     | 4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....                | 194.89                 |                      |
|                  |     |     | Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver                                       |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -9.74                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -16.54                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -27.19                 |                      |
| 26 01 50 81-0221 | EA  |     | 4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F)..... | 210.60                 |                      |
|                  |     |     | Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                  |                        |                      |
|                  |     |     | <i>For &gt;25 To 50, Deduct</i>   | -10.53                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -17.72                 |                      |
|                  |     |     | <i>For &gt;100, Deduct</i>  | -28.76                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 01 50 81-0222 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....                  | 194.89                    |                         |
| Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver   |                           |                         |
| For >25 To 50, Deduct   | -9.74                     |                         |
| For >50 To 100, Deduct  | -16.54                    |                         |
| For >100, Deduct  | -27.19                    |                         |
| 26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) .....  | 210.60                    |                         |
| Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver  |                           |                         |
| For >25 To 50, Deduct   | -10.53                    |                         |
| For >50 To 100, Deduct  | -17.72                    |                         |
| For >100, Deduct  | -28.76                    |                         |
| 26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800) .....                     | 196.16                    |                         |
| Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts  |                           |                         |
| For >25 To 50, Deduct   | -9.81                     |                         |
| For >50 To 100, Deduct  | -15.10                    |                         |
| For >100, Deduct  | -21.16                    |                         |
| 26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W).....                             | 180.25                    |                         |
| Note: 90-minute emergency battery with power output of 20 Watts   |                           |                         |
| For >25 To 50, Deduct   | -9.01                     |                         |
| For >50 To 100, Deduct  | -13.90                    |                         |
| For >100, Deduct  | -19.57                    |                         |
| 26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50) .....                                | 202.08                    |                         |
| Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver  |                           |                         |
| For >25 To 50, Deduct   | -10.10                    |                         |
| For >50 To 100, Deduct  | -17.66                    |                         |
| For >100, Deduct  | -30.22                    |                         |
| 26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F) .....                 | 209.94                    |                         |
| Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                                       |                           |                         |
| For >25 To 50, Deduct   | -10.50                    |                         |
| For >50 To 100, Deduct  | -18.25                    |                         |
| For >100, Deduct  | -31.01                    |                         |
| 26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40) .....                | 287.14                    |                         |
| Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver  |                           |                         |
| For >25 To 50, Deduct   | -14.36                    |                         |
| For >50 To 100, Deduct  | -24.04                    |                         |
| For >100, Deduct  | -38.73                    |                         |
| 26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F) ..... | 318.58                    |                         |
| Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                                       |                           |                         |
| For >25 To 50, Deduct   | -15.93                    |                         |
| For >50 To 100, Deduct  | -26.40                    |                         |
| For >100, Deduct  | -41.87                    |                         |
| 26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....                 | 287.14                    |                         |
| Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver  |                           |                         |
| For >25 To 50, Deduct   | -14.36                    |                         |
| For >50 To 100, Deduct  | -24.04                    |                         |
| For >100, Deduct  | -38.73                    |                         |
| 26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) ..... | 318.58                    |                         |
| Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver                                       |                           |                         |
| For >25 To 50, Deduct   | -15.93                    |                         |
| For >50 To 100, Deduct  | -26.40                    |                         |
| For >100, Deduct  | -41.87                    |                         |

## 26 05 Common Work Results for Electrical <sup>(26)</sup>

### 26 05 13 Medium-Voltage Cables <sup>(26 05)</sup>

#### 26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables <sup>(26 05 13)</sup>

##### 26 05 13 16-0001 Wire And Cable <sup>(26 05 13 16)</sup>

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

##### 26 05 13 16-0002 5 KV Cable <sup>(26 05 13 16-0001)</sup>

##### 26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <sup>(26 05 13 16-0002)</sup>

|  |          |          |
|--|----------|----------|
| 26 05 13 16-0004 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 4,227.30 | 1,175.05 |
| 26 05 13 16-0005 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 4,951.26 | 1,283.04 |
| 26 05 13 16-0006 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 5,869.44 | 1,449.64 |
| 26 05 13 16-0007 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct..... | 7,570.15 | 1,786.01 |
| 26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct..... | 8,611.02 | 2,011.21 |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 13 Medium-Voltage Cables**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 10,453.98                 | 2,232.39                |
| 26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 11,764.83                 | 2,508.32                |
| 26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 13,874.84                 | 2,790.62                |
| 26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 16,212.60                 | 3,331.93                |
| 26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 20,301.53                 | 3,916.60                |
| 26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 29,654.43                 | 4,616.14                |
| 26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 39,014.72                 | 5,315.34                |
| <b>26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)</b>               |                           |                         |
| Note: Excludes excavation.  |                           |                         |
| 26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 4,080.43                  |                         |
| 26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 4,534.29                  |                         |
| 26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 5,035.91                  |                         |
| 26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 6,171.81                  |                         |
| 26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 6,649.54                  |                         |
| 26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 8,214.86                  |                         |
| 26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 8,835.91                  |                         |
| 26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 10,522.56                 |                         |
| 26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 11,853.60                 |                         |
| 26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 14,412.98                 |                         |
| <b>26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)</b> |                           |                         |
| 26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....  | 3,236.03                  | 742.20                  |
| 26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....  | 3,830.74                  | 795.79                  |
| 26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....  | 4,884.19                  | 1,006.34                |
| 26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 6,308.80                  | 1,221.68                |
| 26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 7,343.67                  | 1,434.14                |
| 26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 9,173.75                  | 1,640.09                |
| 26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 10,484.05                 | 1,902.97                |
| 26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 13,176.37                 | 2,394.05                |
| 26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 15,826.06                 | 3,029.22                |
| 26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 20,490.37                 | 3,805.93                |
| <b>26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)</b>  |                           |                         |
| 26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 9,078.16                  | 2,341.73                |
| 26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 10,290.74                 | 2,375.38                |
| 26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 11,503.34                 | 2,409.03                |
| 26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 11,958.58                 | 2,462.28                |
| 26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 14,105.16                 | 2,556.20                |
| 26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 19,592.75                 | 2,678.93                |
| 26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 29,864.03                 | 3,348.67                |
| 26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 34,803.82                 | 4,464.95                |
| <b>26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)</b>           |                           |                         |
| 26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 4,459.47                  | 1,175.05                |
| 26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 5,265.13                  | 1,283.04                |
| 26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 6,273.60                  | 1,449.64                |
| 26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 7,201.12                  | 1,617.74                |
| 26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 8,129.10                  | 1,786.01                |
| 26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 9,255.96                  | 2,011.21                |
| 26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 11,331.09                 | 2,232.39                |
| 26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 12,753.73                 | 2,508.32                |
| 26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 15,116.56                 | 2,790.62                |
| 26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 17,631.46                 | 3,331.93                |
| 26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 22,193.34                 | 3,916.60                |
| 26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 32,915.72                 | 4,616.14                |
| 26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....  | 43,645.46                 | 5,315.34                |
| <b>26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)</b>               |                           |                         |
| Note: Excludes excavation.  |                           |                         |
| 26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 4,312.61                  |                         |
| 26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 4,848.16                  |                         |
| 26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 5,440.07                  |                         |
| 26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 6,086.05                  |                         |
| 26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 6,730.75                  |                         |
| 26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 7,294.48                  |                         |
| 26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 9,091.97                  |                         |
| 26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 9,824.81                  |                         |
| 26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 11,764.28                 |                         |
| 26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 13,072.47                 |                         |



|   | MINOR<br>CSI UOM DESCRIPTION |   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|------------------------------|---|---------------------------|-------------------------|
| 26 05 13 16-0072                          | MLF                          | 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial   | 16,304.80                 |                         |
| <b>26 05 13 16-0073</b>                   |                              | <b>Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial)</b> <small>(26 05 13 16-0073)</small> |                           |                         |
| 26 05 13 16-0074                          | MLF                          | #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 3,468.20                  | 742.20                  |
| 26 05 13 16-0075                          | MLF                          | #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 4,144.61                  | 795.79                  |
| 26 05 13 16-0076                          | MLF                          | #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 5,288.35                  | 1,006.34                |
| 26 05 13 16-0077                          | MLF                          | #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 6,076.07                  | 1,113.22                |
| 26 05 13 16-0078                          | MLF                          | 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 6,867.75                  | 1,221.68                |
| 26 05 13 16-0079                          | MLF                          | 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 7,988.61                  | 1,434.14                |
| 26 05 13 16-0080                          | MLF                          | 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 10,050.86                 | 1,640.09                |
| 26 05 13 16-0081                          | MLF                          | 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 11,472.95                 | 1,902.97                |
| 26 05 13 16-0082                          | MLF                          | 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 14,418.09                 | 2,394.05                |
| 26 05 13 16-0083                          | MLF                          | 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 17,244.93                 | 3,029.22                |
| 26 05 13 16-0084                          | MLF                          | 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 22,382.18                 | 3,805.93                |
| <b>26 05 13 16-0085</b>                   |                              | <b>15 KV Cable</b> <small>(26 05 13 16-0085)</small>  |                           |                         |
| <b>26 05 13 16-0086</b>                   |                              | <b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable</b> <small>(26 05 13 16-0086)</small>                              |                           |                         |
| <b>26 05 13 16-0087</b>                   |                              | <b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct</b> <small>(26 05 13 16-0087)</small>           |                           |                         |
| 26 05 13 16-0088                          | MLF                          | #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct   | 9,040.60                  | 2,341.73                |
| 26 05 13 16-0089                          | MLF                          | #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct   | 9,688.78                  | 2,341.73                |
| 26 05 13 16-0090                          | MLF                          | #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct   | 9,936.02                  | 2,341.73                |
| 26 05 13 16-0091                          | MLF                          | 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 10,741.44                 | 2,341.73                |
| 26 05 13 16-0092                          | MLF                          | 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 11,505.91                 | 2,341.73                |
| 26 05 13 16-0093                          | MLF                          | 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 13,045.52                 | 2,444.36                |
| 26 05 13 16-0094                          | MLF                          | 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 13,345.85                 | 2,444.36                |
| 26 05 13 16-0095                          | MLF                          | 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 15,263.87                 | 2,556.20                |
| 26 05 13 16-0096                          | MLF                          | 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 17,174.66                 | 2,616.14                |
| 26 05 13 16-0097                          | MLF                          | 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 21,045.57                 | 2,946.83                |
| <b>26 05 13 16-0098</b>                   |                              | <b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial</b> <small>(26 05 13 16-0098)</small>               |                           |                         |
| <small>Note: Excludes excavation.</small> |                              |   |                           |                         |
| 26 05 13 16-0099                          | MLF                          | #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial   | 7,417.04                  |                         |
| 26 05 13 16-0100                          | MLF                          | 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 8,222.46                  |                         |
| 26 05 13 16-0101                          | MLF                          | 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 8,986.93                  |                         |
| 26 05 13 16-0102                          | MLF                          | 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 10,558.91                 |                         |
| 26 05 13 16-0103                          | MLF                          | 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 10,859.23                 |                         |
| 26 05 13 16-0104                          | MLF                          | 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 12,916.13                 |                         |
| 26 05 13 16-0105                          | MLF                          | 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 14,830.61                 |                         |
| 26 05 13 16-0106                          | MLF                          | 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial  | 18,366.65                 |                         |
| <b>26 05 13 16-0107</b>                   |                              | <b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)</b> <small>(26 05 13 16-0107)</small> |                           |                         |
| 26 05 13 16-0108                          | MLF                          | #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)   | 6,861.92                  | 1,060.26                |
| 26 05 13 16-0109                          | MLF                          | 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 8,090.67                  | 1,221.68                |
| 26 05 13 16-0110                          | MLF                          | 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 9,412.28                  | 1,434.14                |
| 26 05 13 16-0111                          | MLF                          | 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable  | 11,235.69                 | 1,640.09                |
| 26 05 13 16-0112                          | MLF                          | 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 12,225.26                 | 1,902.97                |
| 26 05 13 16-0113                          | MLF                          | 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 14,682.69                 | 2,215.30                |
| 26 05 13 16-0114                          | MLF                          | 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 17,403.50                 | 2,581.39                |
| 26 05 13 16-0115                          | MLF                          | 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)  | 21,541.76                 | 2,998.53                |
| <b>26 05 13 16-0116</b>                   |                              | <b>Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable</b> <small>(26 05 13 16-0116)</small>                              |                           |                         |
| <b>26 05 13 16-0117</b>                   |                              | <b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct</b> <small>(26 05 13 16-0117)</small>                      |                           |                         |
| 26 05 13 16-0118                          | MLF                          | #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct   | 9,614.13                  | 2,341.73                |
| 26 05 13 16-0119                          | MLF                          | #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct   | 10,378.98                 | 2,341.73                |
| 26 05 13 16-0120                          | MLF                          | #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct   | 10,670.73                 | 2,341.73                |
| 26 05 13 16-0121                          | MLF                          | 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 11,621.13                 | 2,341.73                |
| 26 05 13 16-0122                          | MLF                          | 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 12,523.20                 | 2,341.73                |
| 26 05 13 16-0123                          | MLF                          | 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 14,293.79                 | 2,444.36                |
| 26 05 13 16-0124                          | MLF                          | 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 14,648.17                 | 2,444.36                |
| 26 05 13 16-0125                          | MLF                          | 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 16,861.07                 | 2,556.20                |
| 26 05 13 16-0126                          | MLF                          | 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 19,088.83                 | 2,616.14                |
| 26 05 13 16-0127                          | MLF                          | 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct  | 23,507.70                 | 2,946.83                |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 05 13 16-0128 |     |     | <b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial</b> (26 05 13 16-0116)<br>Note: Excludes excavation. |                        |                      |
| 26 05 13 16-0129 | MLF |     | #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....  | 8,151.75               |                      |
| 26 05 13 16-0130 | MLF |     | 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 9,102.14               |                      |
| 26 05 13 16-0131 | MLF |     | 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 10,004.21              |                      |
| 26 05 13 16-0132 | MLF |     | 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 11,807.18              |                      |
| 26 05 13 16-0133 | MLF |     | 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 12,161.55              |                      |
| 26 05 13 16-0134 | MLF |     | 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 14,508.67              |                      |
| 26 05 13 16-0135 | MLF |     | 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 16,734.28              |                      |
| 26 05 13 16-0136 | MLF |     | 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....   | 20,828.78              |                      |
| 26 05 13 16-0137 |     |     | <b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)</b> (26 05 13 16-0116)                 |                        |                      |
| 26 05 13 16-0138 | MLF |     | #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....  | 7,596.63               | 1,060.26             |
| 26 05 13 16-0139 | MLF |     | 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 8,970.35               | 1,221.68             |
| 26 05 13 16-0140 | MLF |     | 2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ..   | 10,429.56              | 1,434.14             |
| 26 05 13 16-0141 | MLF |     | 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 12,483.96              | 1,640.09             |
| 26 05 13 16-0142 | MLF |     | 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 13,527.58              | 1,902.97             |
| 26 05 13 16-0143 | MLF |     | 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 16,279.88              | 2,215.30             |
| 26 05 13 16-0144 | MLF |     | 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 19,317.67              | 2,581.39             |
| 26 05 13 16-0145 | MLF |     | 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....   | 24,003.89              | 2,998.53             |
| 26 05 13 16-0146 |     |     | <b>15 KV Non-Shielded Single Copper Conductor</b> (26 05 13 16-0085)  |                        |                      |
| 26 05 13 16-0147 | MLF |     | 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 12,507.62              | 2,349.93             |
| 26 05 13 16-0148 | MLF |     | 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 10,989.81              | 2,406.10             |
| 26 05 13 16-0149 | MLF |     | 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 15,981.95              | 2,462.28             |
| 26 05 13 16-0150 | MLF |     | 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....   | 21,617.47              | 2,626.36             |
| 26 05 13 16-0151 |     |     | <b>Shielded, Armored Copper, 15 KV, 3 Conductor Cable</b> (26 05 13 16-0085)<br>Note: Laid in cable tray or hung in vertical cable shaft.                               |                        |                      |
| 26 05 13 16-0152 |     |     | <b>Galvanized Steel Interlocked Armor Cable</b> (26 05 13 16-0151)  |                        |                      |
| 26 05 13 16-0153 | LF  |     | 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....  | 62.50                  | 17.92                |
| 26 05 13 16-0154 | LF  |     | 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....   | 73.67                  | 19.09                |
| 26 05 13 16-0155 |     |     | <b>Aluminum Interlocked Armor Cable</b> (26 05 13 16-0151)  |                        |                      |
| 26 05 13 16-0156 | LF  |     | 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....  | 62.50                  | 17.92                |
| 26 05 13 16-0157 | LF  |     | 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically .....   | 73.67                  | 19.09                |
| 26 05 13 16-0158 |     |     | <b>Type URD, 15 KV Primary Concentric UD Cable</b> (26 05 13 16-0085)<br>Note: 0.175" XLPE insulation, copper conductor.  |                        |                      |
| 26 05 13 16-0159 | MLF |     | #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....  | 4,482.84               | 1,175.05             |
| 26 05 13 16-0160 | MLF |     | #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....  | 5,296.72               | 1,283.04             |
| 26 05 13 16-0161 | MLF |     | #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....  | 6,314.28               | 1,449.64             |
| 26 05 13 16-0162 | MLF |     | 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....   | 8,173.47               | 1,781.15             |
| 26 05 13 16-0163 | MLF |     | 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....   | 9,305.81               | 2,005.19             |
| 26 05 13 16-0164 | MLF |     | 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....   | 11,419.36              | 2,232.39             |
| 26 05 13 16-0165 | MLF |     | 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit .....   | 12,829.85              | 2,498.95             |
| 26 05 13 16-0166 |     |     | <b>15 KV, URD Copper Cable, Direct Burial</b> (26 05 13 16-0085)  |                        |                      |
| 26 05 13 16-0167 | MLF |     | 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....   | 19,928.84              |                      |
| 26 05 13 16-0168 |     |     | <b>Wire Connections</b> (26 05 13 16-0001)  |                        |                      |
| 26 05 13 16-0169 |     |     | <b>Medium Voltage Up To 5 KV</b> (26 05 13 16-0169)   |                        |                      |
| 26 05 13 16-0170 |     |     | <b>Shielded One Conductor Cable Splice</b> (26 05 13 16-0169)   |                        |                      |
| 26 05 13 16-0171 | EA  |     | #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....   | 469.56                 | 153.82               |
| 26 05 13 16-0172 | EA  |     | #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....   | 626.61                 | 153.82               |
| 26 05 13 16-0173 | EA  |     | 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 626.61                 | 153.82               |
| 26 05 13 16-0174 | EA  |     | 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 672.39                 | 184.58               |
| 26 05 13 16-0175 | EA  |     | 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 672.39                 | 184.58               |
| 26 05 13 16-0176 | EA  |     | 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 672.39                 | 184.58               |
| 26 05 13 16-0177 | EA  |     | 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 733.44                 | 215.35               |
| 26 05 13 16-0178 | EA  |     | 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 733.44                 | 215.35               |
| 26 05 13 16-0179 | EA  |     | 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....  | 733.44                 | 215.35               |
| 26 05 13 16-0180 |     |     | <b>Cable Termination Without Stress Cone</b> (26 05 13 16-0169)   |                        |                      |
| 26 05 13 16-0181 | EA  |     | #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV .....   | 699.58                 | 184.58               |
| 26 05 13 16-0182 | EA  |     | 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV .....  | 807.45                 | 215.35               |



|                         | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|------------------|-----|-----|--|------------------------|----------------------|
| <b>26 05 13 16-0183</b> |                  |     |     | <b>Cable Termination With Stress Cone</b> <small>(26 05 13 16-0169)</small>                  |                        |                      |
|                         | 26 05 13 16-0184 | EA  |     | #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV .....               | 2,082.12               | 369.17               |
|                         | 26 05 13 16-0185 | EA  |     | 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV .....              | 2,862.35               | 507.62               |
| <b>26 05 13 16-0186</b> |                  |     |     | <b>Connect To Pothead, Pothead Included</b> <small>(26 05 13 16-0169)</small>                |                        |                      |
|                         | 26 05 13 16-0187 | EA  |     | #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV .....                  | 2,176.97               | 369.17               |
|                         | 26 05 13 16-0188 | EA  |     | 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV .....                 | 2,786.32               | 423.01               |
| <b>26 05 13 16-0189</b> |                  |     |     | <b>Two Conductor Pothead</b> <small>(26 05 13 16-0169)</small>                               |                        |                      |
|                         |                  |     |     | Note: Includes 5 KV pothead.   |                        |                      |
|                         | 26 05 13 16-0190 | EA  |     | #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....          | 1,596.88               | 507.62               |
|                         | 26 05 13 16-0191 | EA  |     | 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....         | 2,138.95               | 646.05               |
|                         | 26 05 13 16-0192 | EA  |     | 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....         | 3,262.48               | 732.50               |
|                         | 26 05 13 16-0193 | EA  |     | 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....                | 5,304.14               | 854.63               |
|                         | 26 05 13 16-0194 | EA  |     | 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....              | 9,753.72               | 1,281.80             |
| <b>26 05 13 16-0195</b> |                  |     |     | <b>Three Conductor Pothead</b> <small>(26 05 13 16-0169)</small>                             |                        |                      |
|                         |                  |     |     | Note: Includes 5 KV pothead.   |                        |                      |
|                         | 26 05 13 16-0196 | EA  |     | #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....        | 6,471.13               | 738.35               |
|                         | 26 05 13 16-0197 | EA  |     | 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....       | 7,086.10               | 861.40               |
| <b>26 05 13 16-0198</b> |                  |     |     | <b>Copper Cable Splice, Crimp Compression Connection</b> <small>(26 05 13 16-0169)</small>   |                        |                      |
|                         |                  |     |     | Note: For bare wire.   |                        |                      |
|                         | 26 05 13 16-0199 | EA  |     | #6 AWG Crimp Compression Connection For Bare Copper Wire .....                               | 98.55                  |                      |
|                         | 26 05 13 16-0200 | EA  |     | #4 AWG Crimp Compression Connection For Bare Copper Wire .....                               | 108.97                 |                      |
|                         | 26 05 13 16-0201 | EA  |     | #3 AWG Crimp Compression Connection For Bare Copper Wire .....                               | 127.05                 |                      |
|                         | 26 05 13 16-0202 | EA  |     | #2 AWG Crimp Compression Connection For Bare Copper Wire .....                               | 143.79                 |                      |
|                         | 26 05 13 16-0203 | EA  |     | #1 AWG Crimp Compression Connection For Bare Copper Wire .....                               | 162.40                 |                      |
|                         | 26 05 13 16-0204 | EA  |     | 1/0 AWG Crimp Compression Connection For Bare Copper Wire .....                              | 180.28                 |                      |
|                         | 26 05 13 16-0205 | EA  |     | 2/0 AWG Crimp Compression Connection For Bare Copper Wire .....                              | 197.85                 |                      |
|                         | 26 05 13 16-0206 | EA  |     | 3/0 AWG Crimp Compression Connection For Bare Copper Wire .....                              | 216.68                 |                      |
|                         | 26 05 13 16-0207 | EA  |     | 4/0 AWG Crimp Compression Connection For Bare Copper Wire .....                              | 234.75                 |                      |
|                         | 26 05 13 16-0208 | EA  |     | 250 MCM Crimp Compression Connection For Bare Copper Wire .....                              | 253.39                 |                      |
|                         | 26 05 13 16-0209 | EA  |     | 300 MCM Crimp Compression Connection For Bare Copper Wire .....                              | 272.78                 |                      |
|                         | 26 05 13 16-0210 | EA  |     | 350 MCM Crimp Compression Connection For Bare Copper Wire .....                              | 290.39                 |                      |
|                         | 26 05 13 16-0211 | EA  |     | 400 MCM Crimp Compression Connection For Bare Copper Wire .....                              | 328.68                 |                      |
|                         | 26 05 13 16-0212 | EA  |     | 500 MCM Crimp Compression Connection For Bare Copper Wire .....                              | 368.73                 |                      |
| <b>26 05 13 16-0213</b> |                  |     |     | <b>Aluminum Cable Splice, Crimp Compression Connection</b> <small>(26 05 13 16-0169)</small> |                        |                      |
|                         |                  |     |     | Note: For bare wire.   |                        |                      |
|                         | 26 05 13 16-0214 | EA  |     | #6 AWG Crimp Compression Connection For Bare Aluminum Wire .....                             | 101.93                 |                      |
|                         | 26 05 13 16-0215 | EA  |     | #4 AWG Crimp Compression Connection For Bare Aluminum Wire .....                             | 110.84                 |                      |
|                         | 26 05 13 16-0216 | EA  |     | #2 AWG Crimp Compression Connection For Bare Aluminum Wire .....                             | 149.96                 |                      |
|                         | 26 05 13 16-0217 | EA  |     | #1 AWG Crimp Compression Connection For Bare Aluminum Wire .....                             | 178.10                 |                      |
|                         | 26 05 13 16-0218 | EA  |     | 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....                            | 195.09                 |                      |
|                         | 26 05 13 16-0219 | EA  |     | 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....                            | 212.00                 |                      |
|                         | 26 05 13 16-0220 | EA  |     | 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....                            | 233.11                 |                      |
|                         | 26 05 13 16-0221 | EA  |     | 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....                            | 252.13                 |                      |
|                         | 26 05 13 16-0222 | EA  |     | 250 MCM Crimp Compression Connection For Bare Aluminum Wire .....                            | 270.35                 |                      |
|                         | 26 05 13 16-0223 | EA  |     | 300 MCM Crimp Compression Connection For Bare Aluminum Wire .....                            | 289.36                 |                      |
|                         | 26 05 13 16-0224 | EA  |     | 350 MCM Crimp Compression Connection For Bare Aluminum Wire .....                            | 307.80                 |                      |
|                         | 26 05 13 16-0225 | EA  |     | 400 MCM Crimp Compression Connection For Bare Aluminum Wire .....                            | 353.62                 |                      |
|                         | 26 05 13 16-0226 | EA  |     | 500 MCM Crimp Compression Connection For Bare Aluminum Wire .....                            | 399.85                 |                      |
| <b>26 05 13 16-0227</b> |                  |     |     | <b>15 KV</b> <small>(26 05 13 16-0168)</small>   |                        |                      |
| <b>26 05 13 16-0228</b> |                  |     |     | <b>Single Conductor Pothead On Racks</b> <small>(26 05 13 16-0227)</small>                   |                        |                      |
|                         |                  |     |     | Note: Includes pothead.  |                        |                      |
|                         | 26 05 13 16-0229 | EA  |     | #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks .....                    | 1,940.79               | 646.05               |
|                         | 26 05 13 16-0230 | EA  |     | 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks .....                   | 2,475.74               | 799.88               |
| <b>26 05 13 16-0231</b> |                  |     |     | <b>Two Conductor Pothead On Rack</b> <small>(26 05 13 16-0227)</small>                       |                        |                      |
|                         |                  |     |     | Note: Includes pothead.  |                        |                      |
|                         | 26 05 13 16-0232 | EA  |     | #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks .....                      | 2,860.79               | 984.46               |
|                         | 26 05 13 16-0233 | EA  |     | 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks .....                     | 3,439.57               | 1,169.04             |
| <b>26 05 13 16-0234</b> |                  |     |     | <b>Three Conductor Pothead On Rack</b> <small>(26 05 13 16-0227)</small>                     |                        |                      |
|                         |                  |     |     | Note: Includes pothead.  |                        |                      |
|                         | 26 05 13 16-0235 | EA  |     | #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks .....                    | 3,653.41               | 1,276.72             |
|                         | 26 05 13 16-0236 | EA  |     | 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks .....                   | 4,551.49               | 1,599.74             |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 13 Medium-Voltage Cables**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 13 16-0237 Stress Relief Cone On Rack</b> <small>(26 05 13 16-0227)</small>  |                           |                         |
| 26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack .....   | 1,826.19                  | 646.05                  |
| 26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack .....  | 2,346.90                  | 799.88                  |
| <b>26 05 13 16-0240 Grounded, Shielded Cable Splice</b> <small>(26 05 13 16-0227)</small>   |                           |                         |
| 26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV .....   | 1,259.84                  | 476.84                  |
| 26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV .....  | 1,614.33                  | 615.28                  |
| 26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way .....      | 7,714.33                  | 1,692.04                |
| 26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way ..... | 9,894.63                  | 1,845.86                |
| <b>26 05 13 16-0245 Cable Termination</b> <small>(26 05 13 16-0227)</small>   |                           |                         |
| 26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV .....   | 834.18                    | 269.19                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 161.51                    |                         |
| 26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV .....  | 1,054.11                  | 346.09                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 207.66                    |                         |
| 26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV .....  | 1,306.62                  | 423.01                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 253.81                    |                         |
| 26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV .....   | 530.78                    | 153.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 92.30                     |                         |
| <b>26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted</b> <small>(26 05 13 16-0227)</small>  |                           |                         |
| 26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted .....  | 1,060.06                  | 199.97                  |
| 26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted .....   | 1,207.17                  | 221.02                  |
| 26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted .....   | 1,432.94                  | 241.87                  |
| 26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted .....   | 1,841.91                  | 278.67                  |
| <b>26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted</b> <small>(26 05 13 16-0227)</small>  |                           |                         |
| 26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted .....  | 2,120.15                  | 400.62                  |
| 26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted .....   | 2,414.63                  | 442.02                  |
| 26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted .....   | 2,847.95                  | 474.76                  |
| 26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted .....   | 3,683.82                  | 557.32                  |
| <b>26 05 13 16-0260 35 KV</b> <small>(26 05 13 16-0168)</small>   |                           |                         |
| <b>26 05 13 16-0261 35 KV One Conductor Splice</b> <small>(26 05 13 16-0260)</small>  |                           |                         |
| 26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing .....  | 3,147.57                  |                         |
| <b>26 05 13 16-0263 Cable Termination</b> <small>(26 05 13 16-0260)</small>   |                           |                         |
| 26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV .....  | 726.37                    | 184.74                  |
| 26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination .....  | 994.08                    | 278.73                  |
| 26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV .....  | 1,152.06                  | 298.11                  |
| 26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV .....   | 576.92                    | 153.82                  |
| <b>26 05 13 16-0268 70 KV</b> <small>(26 05 13 16-0168)</small>   |                           |                         |
| <b>26 05 13 16-0269 Cable Splice</b> <small>(26 05 13 16-0268)</small>  |                           |                         |
| 26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing .....  | 16,448.71                 |                         |
| 26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing .....  | 3,263.50                  |                         |
| <b>26 05 19 Low-Voltage Electrical Power Conductors and Cables</b> <small>(26 05)</small>   |                           |                         |
| <b>26 05 19 13 Undercarpet Electrical Power Cables</b> <small>(26 05 19)</small>  |                           |                         |
| <b>26 05 19 13-0001 Under Carpet Power System</b> <small>(26 05 19 13)</small>  |                           |                         |
| Note: Includes laying out, floor prep, taping, drill floor, folds, identifying, tagging and testing                                       |                           |                         |
| 26 05 19 13-0002 LF 3-Conductor, #12 Flat Cable With Attached Bottom Shield .....   | 6.56                      | 0.70                    |
| 26 05 19 13-0003 LF Steel, Top Shield .....   | 14.09                     | 0.70                    |
| 26 05 19 13-0004 EA 3-Conductor, Splice .....   | 40.57                     | 11.94                   |
| 26 05 19 13-0005 EA Splice Top Shield For 3 Conductor .....   | 12.61                     | 5.62                    |
| 26 05 19 13-0006 EA 3-Conductor, Tap .....  | 50.22                     | 14.06                   |
| 26 05 19 13-0007 EA Insulating Patch, Splice Tap And End .....  | 74.18                     | 11.94                   |
| 26 05 19 13-0008 EA 3-Conductor, Transition Block Assembly .....  | 48.08                     | 7.02                    |
| 26 05 19 13-0009 EA Single, Direct Connected, Receptacle With Box .....   | 145.53                    | 22.49                   |
| 26 05 19 13-0010 EA Dual, Direct Connected, Receptacle With Box .....   | 241.57                    | 35.14                   |
| 26 05 19 13-0011 EA Floor Mounted Box With Cover .....  | 237.87                    | 28.11                   |
| 26 05 19 13-0012 LF 5-Conductor, #12 Cable With Attached Bottom Shield .....  | 10.28                     | 0.70                    |
| 26 05 19 13-0013 LF Steel, Top Shield For 5-Conductor Cable .....   | 10.20                     | 0.70                    |
| 26 05 19 13-0014 EA 5-Conductor, Splice .....   | 41.04                     | 11.94                   |
| 26 05 19 13-0015 EA 5-Conductor, Transition Block Assembly .....  | 62.67                     | 7.02                    |
| 26 05 19 13-0016 EA Box, Wall, Flush With Cover .....   | 113.21                    | 28.11                   |
| 26 05 19 13-0017 EA Telephone, Transition Fitting Wall Box .....  | 76.55                     | 23.19                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 19 13-0018 EA RJ-45, Telephone Fitting With Duplex Jack And Cover .....   | 99.16                     | 26.70                   |
| 26 05 19 13-0019 EA Miniature Telephone With Duplex RJ-45 .....   | 42.28                     | 10.54                   |
| 26 05 19 13-0020 LF 4-Pair, Level 5, Under Carpet Telephone Wire .....  | 2.49                      | 0.70                    |
| 26 05 19 13-0021 EA BNC, Coax Plug, Connector .....   | 36.07                     | 14.06                   |
| 26 05 19 13-0022 EA TNC, Coax Plug, Connector .....   | 36.07                     | 14.06                   |
| 26 05 19 13-0023 CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm .....  | 188.17                    | 70.27                   |
| <br><b>26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)</b>  |                           |                         |
| <b>26 05 19 16-0001 Cable Installation Methods (26 05 19 16)</b>  |                           |                         |
| <b>26 05 19 16-0002 Pull Cord (26 05 19 16-0001)</b>  |                           |                         |
| Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.  |                           |                         |
| 26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit .....   | 0.48                      |                         |
| 26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits .....   | 0.25                      |                         |
| 26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit .....  | 0.79                      |                         |
| 26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits .....  | 0.49                      |                         |
| <br><b>26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)</b>   |                           |                         |
| Note: For installation under roads, driveways or other structures up to 20'.  |                           |                         |
| 26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand .....   | 3.20                      |                         |
| 26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand .....   | 4.08                      |                         |
| 26 05 19 16-0010 EA Boring Minimum Set-Up Charge .....  | 448.56                    |                         |
| Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.   |                           |                         |
| <br><b>26 05 19 16-0011 Wire and Cable (26 05 19 16)</b>  |                           |                         |
| Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0058 for various conduit types. |                           |                         |
| <b>26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)</b>   |                           |                         |
| <b>26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012)</b>  |                           |                         |
| Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.   |                           |                         |
| <b>26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013)</b>   |                           |                         |
| Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.   |                           |                         |
| <b>26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)</b>   |                           |                         |
| <b>26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>  |                           |                         |
| 26 05 19 16-0017 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.40                      | 0.61                    |
| 26 05 19 16-0018 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.44                      | 0.61                    |
| 26 05 19 16-0019 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.57                      | 0.61                    |
| <br><b>26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>  |                           |                         |
| 26 05 19 16-0021 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.62                      | 0.61                    |
| 26 05 19 16-0022 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.70                      | 0.61                    |
| 26 05 19 16-0023 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.81                      | 0.61                    |
| <br><b>26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>  |                           |                         |
| 26 05 19 16-0025 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.77                      | 0.61                    |
| 26 05 19 16-0026 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.89                      | 0.61                    |
| 26 05 19 16-0027 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 2.14                      | 0.61                    |
| <br><b>26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>  |                           |                         |
| 26 05 19 16-0029 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 1.98                      | 0.61                    |
| 26 05 19 16-0030 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 2.13                      | 0.61                    |
| 26 05 19 16-0031 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 2.34                      | 0.61                    |
| <br><b>26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>  |                           |                         |
| 26 05 19 16-0033 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 2.48                      | 0.77                    |
| 26 05 19 16-0034 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 2.59                      | 0.77                    |
| 26 05 19 16-0035 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....   | 2.74                      | 0.77                    |
| <br><b>26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)</b>  |                           |                         |
| <b>26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>   |                           |                         |
| 26 05 19 16-0038 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....  | 1.44                      | 0.61                    |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 19 16-0039 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 1.53                      | 0.61                    |
| 26 05 19 16-0040 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 1.65                      | 0.61                    |
| 26 05 19 16-0041 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 2.68                      | 0.83                    |
| 26 05 19 16-0042 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 2.90                      | 0.85                    |
| 26 05 19 16-0043 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.06                      | 0.88                    |
| 26 05 19 16-0044 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.33                      | 0.90                    |
| 26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 3.77                      | 0.94                    |
| 26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 4.24                      | 0.97                    |
| 26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 5.44                      | 0.99                    |
| 26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 5.55                      | 1.01                    |
| 26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 5.70                      | 1.04                    |
| 26 05 19 16-0050 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 6.29                      | 1.06                    |
| 26 05 19 16-0051 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 7.78                      | 1.08                    |
| 26 05 19 16-0052 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 8.13                      | 1.15                    |
| <b>26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>                        |                           |                         |
| 26 05 19 16-0054 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 1.70                      | 0.61                    |
| 26 05 19 16-0055 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 1.78                      | 0.61                    |
| 26 05 19 16-0056 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 1.93                      | 0.61                    |
| 26 05 19 16-0057 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 2.78                      | 0.83                    |
| 26 05 19 16-0058 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.03                      | 0.85                    |
| 26 05 19 16-0059 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.28                      | 0.88                    |
| 26 05 19 16-0060 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.60                      | 0.90                    |
| 26 05 19 16-0061 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.74                      | 0.92                    |
| 26 05 19 16-0062 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 4.10                      | 0.94                    |
| 26 05 19 16-0063 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 4.71                      | 0.97                    |
| 26 05 19 16-0064 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 5.03                      | 0.99                    |
| 26 05 19 16-0065 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 5.63                      | 1.01                    |
| 26 05 19 16-0066 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 6.43                      | 1.04                    |
| 26 05 19 16-0067 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 7.16                      | 1.06                    |
| 26 05 19 16-0068 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 8.53                      | 1.08                    |
| 26 05 19 16-0069 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 9.34                      | 1.11                    |
| 26 05 19 16-0070 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 10.81                     | 1.15                    |
| <b>26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>                        |                           |                         |
| 26 05 19 16-0072 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 1.91                      | 0.61                    |
| 26 05 19 16-0073 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 2.00                      | 0.61                    |
| 26 05 19 16-0074 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 2.22                      | 0.61                    |
| 26 05 19 16-0075 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 3.47                      | 0.83                    |
| 26 05 19 16-0076 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 4.08                      | 0.85                    |
| 26 05 19 16-0077 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 4.30                      | 0.88                    |
| 26 05 19 16-0078 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 4.80                      | 0.90                    |
| 26 05 19 16-0079 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....  | 5.13                      | 0.92                    |
| 26 05 19 16-0080 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 5.68                      | 0.94                    |
| 26 05 19 16-0081 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 6.21                      | 0.97                    |
| 26 05 19 16-0082 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 6.81                      | 0.99                    |
| 26 05 19 16-0083 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 8.09                      | 1.01                    |
| 26 05 19 16-0084 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 9.05                      | 1.06                    |
| 26 05 19 16-0085 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 10.56                     | 1.08                    |
| 26 05 19 16-0086 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)..... | 12.43                     | 1.15                    |
| <b>26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>                        |                           |                         |
| 26 05 19 16-0088 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 2.14                      | 0.61                    |
| 26 05 19 16-0089 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....     | 2.31                      | 0.61                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 19 16-0090 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....          | 2.47                      | 0.61                    |
| 26 05 19 16-0091 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 3.91                      | 0.83                    |
| 26 05 19 16-0092 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 4.48                      | 0.85                    |
| 26 05 19 16-0093 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 5.05                      | 0.88                    |
| 26 05 19 16-0094 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 5.68                      | 0.90                    |
| 26 05 19 16-0095 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 6.13                      | 0.92                    |
| 26 05 19 16-0096 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 6.88                      | 0.94                    |
| 26 05 19 16-0097 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 7.77                      | 0.97                    |
| 26 05 19 16-0098 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 8.60                      | 0.99                    |
| 26 05 19 16-0099 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 9.44                      | 1.01                    |
| 26 05 19 16-0100 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 9.84                      | 1.04                    |
| 26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 11.27                     | 1.06                    |
| 26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 12.73                     | 1.08                    |
| 26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 14.21                     | 1.11                    |
| 26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 14.69                     | 1.13                    |
| 26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 15.21                     | 1.15                    |
| <b>26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>              |                           |                         |
| 26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....          | 2.44                      | 0.77                    |
| 26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....          | 2.58                      | 0.77                    |
| 26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....          | 2.73                      | 0.77                    |
| 26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 3.44                      | 0.83                    |
| 26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 5.37                      | 0.85                    |
| 26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....       | 6.25                      | 0.88                    |
| 26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 7.94                      | 0.94                    |
| 26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 9.04                      | 0.97                    |
| 26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 11.41                     | 1.01                    |
| 26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....      | 16.38                     | 1.06                    |
| <b>26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>               |                           |                         |
| 26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 4.60                      | 0.92                    |
| 26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 4.97                      | 1.07                    |
| 26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 6.57                      | 1.07                    |
| <b>26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>               |                           |                         |
| 26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 6.38                      | 1.07                    |
| 26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 7.68                      | 1.23                    |
| 26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 9.22                      | 1.54                    |
| <b>26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>               |                           |                         |
| 26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 10.05                     | 1.54                    |
| 26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 10.98                     | 1.69                    |
| 26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 13.16                     | 1.84                    |
| <b>26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>               |                           |                         |
| 26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 15.61                     | 3.08                    |
| 26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 19.82                     | 3.85                    |
| 26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....           | 24.31                     | 5.08                    |
| <b>26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0014)</small>                 |                           |                         |
| <b>26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0133)</small>                                |                           |                         |
| 26 05 19 16-0135 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)..... | 1.81                      | 0.61                    |
| 26 05 19 16-0136 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)..... | 1.95                      | 0.61                    |
| 26 05 19 16-0137 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)..... | 2.22                      | 0.61                    |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0133)</small>   |                           |                         |
| 26 05 19 16-0139 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....                | 1.90                      | 0.61                    |
| 26 05 19 16-0140 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....                | 2.12                      | 0.61                    |
| 26 05 19 16-0141 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....                | 2.23                      | 0.61                    |
| <b>26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0133)</small>   |                           |                         |
| 26 05 19 16-0143 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....                | 2.46                      | 0.61                    |
| 26 05 19 16-0144 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....                | 3.36                      | 0.61                    |
| 26 05 19 16-0145 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....                | 4.22                      | 0.77                    |
| <b>26 05 19 16-0146 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0014)</small>                                 |                           |                         |
| <b>26 05 19 16-0147 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>                        |                           |                         |
| 26 05 19 16-0148 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 2.39                      | 0.61                    |
| 26 05 19 16-0149 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 2.77                      | 0.61                    |
| 26 05 19 16-0150 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 3.16                      | 0.61                    |
| <b>26 05 19 16-0151 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>                        |                           |                         |
| 26 05 19 16-0152 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 2.52                      | 0.61                    |
| 26 05 19 16-0153 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 2.91                      | 0.61                    |
| 26 05 19 16-0154 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 3.52                      | 0.61                    |
| 26 05 19 16-0155 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 3.82                      | 0.77                    |
| <b>26 05 19 16-0156 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>                        |                           |                         |
| 26 05 19 16-0157 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 3.00                      | 0.61                    |
| 26 05 19 16-0158 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 3.50                      | 0.61                    |
| 26 05 19 16-0159 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 3.90                      | 0.77                    |
| <b>26 05 19 16-0160 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>                        |                           |                         |
| 26 05 19 16-0161 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 3.47                      | 0.61                    |
| 26 05 19 16-0162 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 3.91                      | 0.61                    |
| 26 05 19 16-0163 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                 | 4.36                      | 0.77                    |
| <b>26 05 19 16-0164 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>                            |                           |                         |
| 26 05 19 16-0165 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 3.96                      | 0.77                    |
| 26 05 19 16-0166 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 4.35                      | 0.77                    |
| 26 05 19 16-0167 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....                               | 4.76                      | 0.77                    |
| <b>26 05 19 16-0168 Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0013)</small><br>Note: Includes thermoplastic elastomeric (TPE) insulation. |                           |                         |
| <b>26 05 19 16-0169 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0168)</small>                                  |                           |                         |
| <b>26 05 19 16-0170 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0169)</small>                         |                           |                         |
| 26 05 19 16-0171 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 1.92                      | 0.61                    |
| 26 05 19 16-0172 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 2.07                      | 0.61                    |
| 26 05 19 16-0173 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 2.95                      | 0.77                    |
| <b>26 05 19 16-0174 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0169)</small>                         |                           |                         |
| 26 05 19 16-0175 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 2.38                      | 0.61                    |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 19 16-0176 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 2.67                      | 0.61                    |
| 26 05 19 16-0177 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 3.68                      | 0.77                    |
| <b>26 05 19 16-0178 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b><br><small>(26 05 19 16-0169)</small>                                  |                           |                         |
| 26 05 19 16-0179 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 2.85                      | 0.61                    |
| 26 05 19 16-0180 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 3.22                      | 0.61                    |
| 26 05 19 16-0181 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 3.99                      | 0.77                    |
| <b>26 05 19 16-0182 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b><br><small>(26 05 19 16-0169)</small>                                  |                           |                         |
| 26 05 19 16-0183 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 3.54                      | 0.77                    |
| 26 05 19 16-0184 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 3.99                      | 0.77                    |
| 26 05 19 16-0185 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....  | 4.25                      | 0.77                    |
| <b>26 05 19 16-0186 Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0013)</small><br>Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation. |                           |                         |
| <b>26 05 19 16-0187 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0186)</small>   |                           |                         |
| <b>26 05 19 16-0188 #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0187)</small>                                       |                           |                         |
| 26 05 19 16-0189 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....  | 4.98                      | 0.92                    |
| 26 05 19 16-0190 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....  | 5.33                      | 1.07                    |
| 26 05 19 16-0191 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....  | 6.22                      | 1.07                    |
| <b>26 05 19 16-0192 #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0187)</small>                                       |                           |                         |
| 26 05 19 16-0193 LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....                                    | 5.37                      | 1.07                    |
| 26 05 19 16-0194 LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....                                    | 6.38                      | 1.23                    |
| 26 05 19 16-0195 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....  | 7.91                      | 1.54                    |
| <b>26 05 19 16-0196 #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0187)</small>                                       |                           |                         |
| 26 05 19 16-0197 LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....                                    | 7.03                      | 1.07                    |
| 26 05 19 16-0198 LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....                                    | 8.30                      | 1.23                    |
| 26 05 19 16-0199 LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....                                    | 10.59                     | 1.54                    |
| <b>26 05 19 16-0200 Cord Grips, Cable Reels, Extension Cords, And Accessories</b> <small>(26 05 19 16-0012)</small>  |                           |                         |
| <b>26 05 19 16-0201 Cord Grips</b> <small>(26 05 19 16-0200)</small>   |                           |                         |
| 26 05 19 16-0202 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....  | 96.86                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 27.97                     |                         |
| 26 05 19 16-0203 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....  | 97.27                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 27.97                     |                         |
| <b>26 05 19 16-0204 Cable Reels</b> <small>(26 05 19 16-0200)</small><br>Note: Includes handling, mounting, electrical connections and installing cord.            |                           |                         |
| 26 05 19 16-0205 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....   | 681.18                    | 76.91                   |
| 26 05 19 16-0206 EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....   | 1,814.27                  | 76.91                   |
| 26 05 19 16-0207 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....   | 1,366.37                  | 76.91                   |
| <b>26 05 19 16-0208 Extension Cords For Cable Reel</b> <small>(26 05 19 16-0200)</small>   |                           |                         |
| 26 05 19 16-0209 EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....  | 214.20                    |                         |
| 26 05 19 16-0210 EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....  | 301.06                    |                         |
| <b>26 05 19 16-0211 Plugs And Connector Bodies</b> <small>(26 05 19 16-0200)</small><br>Note: Up to 277 volt   |                           |                         |
| <b>26 05 19 16-0212 NEMA Twist-Lock Plugs</b> <small>(26 05 19 16-0211)</small>  |                           |                         |
| 26 05 19 16-0213 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....  | 96.17                     |                         |
| 26 05 19 16-0214 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....  | 97.66                     |                         |
| 26 05 19 16-0215 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....  | 91.42                     |                         |
| 26 05 19 16-0216 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....   | 95.99                     |                         |
| 26 05 19 16-0217 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....   | 117.41                    |                         |
| 26 05 19 16-0218 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....   | 123.22                    |                         |
| 26 05 19 16-0219 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....   | 128.90                    |                         |
| 26 05 19 16-0220 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....   | 118.28                    |                         |
| 26 05 19 16-0221 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....   | 132.23                    |                         |
| 26 05 19 16-0222 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....   | 134.95                    |                         |
| 26 05 19 16-0223 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....   | 138.41                    |                         |
| <b>26 05 19 16-0224 NEMA Twist-Lock Connector Bodies</b> <small>(26 05 19 16-0211)</small>   |                           |                         |
| 26 05 19 16-0225 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....  | 100.37                    |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 19 16-0226 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....                      | 105.62                    |                         |
| 26 05 19 16-0227 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....                      | 94.57                     |                         |
| 26 05 19 16-0228 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....                     | 118.28                    |                         |
| 26 05 19 16-0229 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....                     | 133.59                    |                         |
| 26 05 19 16-0230 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....                       | 141.00                    |                         |
| 26 05 19 16-0231 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....                     | 165.95                    |                         |
| 26 05 19 16-0232 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....                     | 159.65                    |                         |
| 26 05 19 16-0233 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....                     | 190.89                    |                         |
| 26 05 19 16-0234 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....                       | 199.17                    |                         |
| 26 05 19 16-0235 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....                     | 190.15                    |                         |
| <b>26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)</b>  |                           |                         |
| 26 05 19 16-0237 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....             | 285.26                    | 46.15                   |
| 26 05 19 16-0238 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....             | 288.06                    | 46.15                   |
| 26 05 19 16-0239 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....             | 309.79                    | 46.15                   |
| 26 05 19 16-0240 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....        | 312.48                    | 50.76                   |
| 26 05 19 16-0241 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....             | 308.26                    | 50.76                   |
| 26 05 19 16-0242 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....               | 309.52                    | 50.76                   |
| 26 05 19 16-0243 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....             | 428.62                    | 56.76                   |
| 26 05 19 16-0244 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....             | 418.12                    | 56.76                   |
| 26 05 19 16-0245 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....             | 463.21                    | 56.76                   |
| 26 05 19 16-0246 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....        | 458.23                    | 62.30                   |
| 26 05 19 16-0247 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....             | 440.00                    | 62.30                   |
| 26 05 19 16-0248 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....             | 452.54                    | 62.30                   |
| 26 05 19 16-0249 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....             | 580.80                    | 73.84                   |
| 26 05 19 16-0250 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....             | 590.80                    | 73.84                   |
| 26 05 19 16-0251 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....             | 567.09                    | 73.84                   |
| 26 05 19 16-0252 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....        | 644.89                    | 82.14                   |
| 26 05 19 16-0253 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....             | 629.33                    | 82.14                   |
| 26 05 19 16-0254 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....             | 636.06                    | 82.14                   |
| 26 05 19 16-0255 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....           | 792.72                    | 92.29                   |
| 26 05 19 16-0256 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....           | 831.34                    | 92.29                   |
| 26 05 19 16-0257 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....      | 816.04                    | 101.53                  |
| 26 05 19 16-0258 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....           | 802.85                    | 101.53                  |
| 26 05 19 16-0259 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....           | 809.98                    | 101.53                  |
| <b>26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)</b>   |                           |                         |
| 26 05 19 16-0261 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....        | 301.36                    | 46.15                   |
| 26 05 19 16-0262 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....        | 303.29                    | 46.15                   |
| 26 05 19 16-0263 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....        | 353.34                    | 46.15                   |
| 26 05 19 16-0264 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....   | 353.03                    | 50.76                   |
| 26 05 19 16-0265 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....        | 347.95                    | 50.76                   |
| 26 05 19 16-0266 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....        | 352.55                    | 50.76                   |
| 26 05 19 16-0267 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....        | 438.23                    | 56.76                   |
| 26 05 19 16-0268 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....        | 438.13                    | 56.76                   |
| 26 05 19 16-0269 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....        | 455.39                    | 56.76                   |
| 26 05 19 16-0270 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....   | 453.55                    | 62.30                   |
| 26 05 19 16-0271 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....        | 457.10                    | 62.30                   |
| 26 05 19 16-0272 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....        | 453.35                    | 62.30                   |
| 26 05 19 16-0273 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....        | 679.44                    | 73.84                   |
| 26 05 19 16-0274 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....        | 658.30                    | 73.84                   |
| 26 05 19 16-0275 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....        | 645.71                    | 73.84                   |
| 26 05 19 16-0276 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....   | 703.60                    | 82.14                   |
| 26 05 19 16-0277 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....        | 721.98                    | 82.14                   |
| 26 05 19 16-0278 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....        | 723.33                    | 82.14                   |
| 26 05 19 16-0279 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....      | 900.92                    | 92.29                   |
| 26 05 19 16-0280 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....      | 925.16                    | 92.29                   |
| 26 05 19 16-0281 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)..... | 1,000.58                  | 101.53                  |
| 26 05 19 16-0282 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....      | 967.28                    | 101.53                  |
| 26 05 19 16-0283 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....      | 978.63                    | 101.53                  |
| <b>26 05 19 16-0284 Accessories (26 05 19 16-0200)</b>   |                           |                         |
| 26 05 19 16-0285 EA 1/2" Straight Steel Cord Connector.....  | 68.76                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 9.23                      |                         |
| 26 05 19 16-0286 EA 1/2" Straight Nylon Cord Connector.....  | 42.07                     | 11.54                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 6.92                      |                         |
| 26 05 19 16-0287 EA 1/2" 90 Degree Steel Cord Connector.....   | 79.30                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 11.54                     |                         |
| 26 05 19 16-0288 EA 1/2" 90 Degree Nylon Cord Connector.....   | 51.18                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 9.23                      |                         |
| 26 05 19 16-0289 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....  | 78.36                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 11.54                     |                         |
| 26 05 19 16-0290 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....                                       | 131.92                    | 23.07                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 13.85                     |                         |
| 26 05 19 16-0291 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....  | 50.45                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 9.23                      |                         |
| 26 05 19 16-0292 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....                                       | 82.76                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                     | 11.54                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 19 16-0293 EA 3/4" Straight Steel Cord Connector.....  | 71.44                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 9.23                      |                         |
| 26 05 19 16-0294 EA 3/4" Straight Nylon Cord Connector.....  | 43.42                     | 11.54                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 6.92                      |                         |
| 26 05 19 16-0295 EA 3/4" 90 Degree Steel Cord Connector .....  | 87.66                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 11.54                     |                         |
| 26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector .....  | 55.36                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 9.23                      |                         |
| 26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh .....   | 88.85                     | 23.07                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.84                     |                         |
| 26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh .....  | 105.50                    | 26.92                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 16.15                     |                         |
| 26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh .....   | 60.96                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 11.54                     |                         |
| 26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh .....  | 73.58                     | 23.07                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.85                     |                         |
| 26 05 19 16-0301 EA 1" Straight Steel Cord Connector.....  | 88.59                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 9.23                      |                         |
| 26 05 19 16-0302 EA 1" Straight Nylon Cord Connector.....  | 52.00                     | 11.54                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 6.92                      |                         |
| 26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector .....  | 98.99                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 11.54                     |                         |
| 26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector .....  | 61.03                     | 15.39                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 9.23                      |                         |
| 26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh .....   | 106.87                    | 23.07                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.84                     |                         |
| 26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh .....  | 117.40                    | 26.92                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 16.15                     |                         |
| 26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh .....   | 70.11                     | 19.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 11.54                     |                         |
| 26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh .....  | 81.31                     | 23.07                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.85                     |                         |
| <br>   |                           |                         |
| 26 05 19 16-0309 600 Volt Wire (26 05 19 16-0011)  |                           |                         |
| 26 05 19 16-0310 Single Solid Conductor, Copper (26 05 19 16-0309)   |                           |                         |
| 26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....                  | 825.66                    | 341.11                  |
| 26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....                  | 1,027.89                  | 401.27                  |
| 26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....                  | 1,262.57                  | 490.66                  |
| 26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....                       | 1,051.30                  | 341.11                  |
| 26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....                       | 1,265.34                  | 401.27                  |
| 26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....                       | 1,509.60                  | 490.66                  |
| <br>   |                           |                         |
| 26 05 19 16-0317 Power Cable, Stranded Conductor, Copper (26 05 19 16-0309)  |                           |                         |
| 26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 (26 05 19 16-0317)  |                           |                         |
| 26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 860.94                    | 281.10                  |
| 26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 1,018.21                  | 337.33                  |
| 26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 1,246.08                  | 393.55                  |
| 26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 1,521.60                  | 449.76                  |
| 26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 2,015.57                  | 562.21                  |
| 26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....            | 2,695.26                  | 674.64                  |
| 26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....            | 3,663.66                  | 843.31                  |
| 26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....            | 4,321.03                  | 955.75                  |
| 26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....            | 5,095.73                  | 1,068.19                |
| 26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....            | 6,270.24                  | 1,180.64                |
| 26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 7,501.02                  | 1,349.29                |
| 26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 8,953.51                  | 1,517.95                |
| 26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 10,674.58                 | 1,686.62                |
| 26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 12,737.80                 | 1,855.28                |
| 26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 13,517.87                 | 2,023.94                |
| 26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 15,961.27                 | 2,192.60                |
| 26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 17,034.29                 | 2,361.26                |
| 26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 19,017.74                 | 2,529.92                |
| 26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 21,946.42                 | 2,698.59                |
| 26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 25,214.55                 | 2,923.47                |
| 26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....           | 37,943.05                 | 3,260.79                |
| 26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....         | 53,266.24                 | 3,823.00                |
| <br>   |                           |                         |
| 26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0317)   |                           |                         |
| 26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....  | 2,036.41                  | 674.50                  |
| 26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....  | 2,492.41                  | 787.23                  |
| 26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....  | 3,089.11                  | 955.75                  |
| 26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....  | 3,648.46                  | 1,039.65                |
| 26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....  | 3,964.73                  | 1,096.16                |
| 26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....  | 4,595.13                  | 1,208.46                |
| 26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit ..... | 3,323.79                  | 1,259.62                |
| 26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit ..... | 5,542.32                  | 1,377.40                |
| 26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit ..... | 6,103.50                  | 1,462.02                |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |           |          |
|------------------|--|-----------|----------|
| 26 05 19 16-0351 | MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit..... | 8,836.09  | 1,855.42 |
| 26 05 19 16-0352 | MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit..... | 13,358.29 | 2,754.81 |
| 26 05 19 16-0353 | MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 2,492.48  | 787.23   |
| 26 05 19 16-0354 | MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 3,176.18  | 955.75   |
| 26 05 19 16-0355 | MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 3,859.88  | 1,124.41 |
| 26 05 19 16-0356 | MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 3,323.22  | 1,011.55 |
| 26 05 19 16-0357 | MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 4,281.06  | 1,235.73 |
| 26 05 19 16-0358 | MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 5,524.89  | 1,574.46 |
| 26 05 19 16-0359 | MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 7,444.73  | 2,024.64 |
| 26 05 19 16-0360 | MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 10,040.37 | 2,586.28 |
| 26 05 19 16-0361 | MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 4,101.41  | 1,152.52 |
| 26 05 19 16-0362 | MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 5,203.39  | 1,349.29 |
| 26 05 19 16-0363 | MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 6,727.03  | 1,714.73 |
| 26 05 19 16-0364 | MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 5,250.11  | 1,293.07 |
| 26 05 19 16-0365 | MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 7,031.65  | 1,602.28 |
| 26 05 19 16-0366 | MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 8,974.96  | 1,976.15 |
| 26 05 19 16-0367 | MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 7,032.78  | 1,568.83 |
| 26 05 19 16-0368 | MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 9,152.30  | 1,794.42 |
| 26 05 19 16-0369 | MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 11,819.65 | 2,239.27 |
| 26 05 19 16-0370 | MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 9,627.80  | 1,910.94 |
| 26 05 19 16-0371 | MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 12,618.07 | 2,136.94 |
| 26 05 19 16-0372 | MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 16,728.54 | 2,811.02 |
| 26 05 19 16-0373 | MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 16,701.32 | 2,698.17 |
| 26 05 19 16-0374 | MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....   | 21,704.15 | 3,371.83 |
| 26 05 19 16-0375 | MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 19,693.30 | 2,924.03 |
| 26 05 19 16-0376 | MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 23,905.37 | 3,371.83 |
| 26 05 19 16-0377 | MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 29,208.47 | 3,933.75 |
| 26 05 19 16-0378 | MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 38,476.32 | 5,057.74 |
| 26 05 19 16-0379 | MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 35,552.58 | 4,501.44 |
| 26 05 19 16-0380 | MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 38,018.21 | 5,057.74 |
| 26 05 19 16-0381 | MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 47,448.47 | 5,622.06 |
| 26 05 19 16-0382 | MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....  | 61,047.19 | 6,178.92 |

**26 05 19 16-0383 Undergound Feeder And Branch Circuit Suitable, Single Stranded Copper**

(26 05 19 16-0383)

Note: Direct bury.

|                  |  |           |  |
|------------------|--|-----------|--|
| 26 05 19 16-0384 | MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 1,229.31  |  |
| 26 05 19 16-0385 | MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 1,446.56  |  |
| 26 05 19 16-0386 | MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 1,810.67  |  |
| 26 05 19 16-0387 | MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....        | 2,380.49  |  |
| 26 05 19 16-0388 | MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....        | 3,324.81  |  |
| 26 05 19 16-0389 | MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....        | 4,376.75  |  |
| 26 05 19 16-0390 | MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....        | 6,316.13  |  |
| 26 05 19 16-0391 | MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....        | 7,845.43  |  |
| 26 05 19 16-0392 | MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 9,615.43  |  |
| 26 05 19 16-0393 | MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 11,641.45 |  |
| 26 05 19 16-0394 | MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 14,021.81 |  |
| 26 05 19 16-0395 | MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 15,835.70 |  |
| 26 05 19 16-0396 | MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 17,149.95 |  |
| 26 05 19 16-0397 | MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 20,513.00 |  |
| 26 05 19 16-0398 | MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 22,926.99 |  |
| 26 05 19 16-0399 | MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 25,748.19 |  |
| 26 05 19 16-0400 | MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 30,471.28 |  |
| 26 05 19 16-0401 | MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 35,970.95 |  |
| 26 05 19 16-0402 | MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....       | 57,048.52 |  |
| 26 05 19 16-0403 | MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 1,011.12  |  |
| 26 05 19 16-0404 | MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 1,208.47  |  |
| 26 05 19 16-0405 | MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 1,439.52  |  |
| 26 05 19 16-0406 | MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....      | 1,769.37  |  |
| 26 05 19 16-0407 | MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....      | 2,258.96  |  |
| 26 05 19 16-0408 | MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....      | 2,985.30  |  |
| 26 05 19 16-0409 | MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....      | 4,026.64  |  |
| 26 05 19 16-0410 | MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....      | 4,735.44  |  |
| 26 05 19 16-0411 | MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 5,364.78  |  |
| 26 05 19 16-0412 | MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 6,045.46  |  |
| 26 05 19 16-0413 | MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 6,998.47  |  |
| 26 05 19 16-0414 | MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 8,138.45  |  |
| 26 05 19 16-0415 | MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 9,203.50  |  |
| 26 05 19 16-0416 | MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 10,323.69 |  |
| 26 05 19 16-0417 | MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 11,534.57 |  |
| 26 05 19 16-0418 | MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 12,784.88 |  |
| 26 05 19 16-0419 | MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 14,804.75 |  |
| 26 05 19 16-0420 | MLF 750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....     | 24,325.49 |  |
| 26 05 19 16-0421 | MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable..... | 849.99    |  |
| 26 05 19 16-0422 | MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable..... | 1,053.96  |  |
| 26 05 19 16-0423 | MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable..... | 1,300.29  |  |
| 26 05 19 16-0424 | MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....  | 1,815.78  |  |
| 26 05 19 16-0425 | MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....  | 2,456.78  |  |



| MINOR   | CSI | UOM   | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|---|-------------|------------------------|----------------------|
| 26 05 19 16-0426  | MLF | #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable  | .....       | 3,230.73               |                      |
| 26 05 19 16-0427  | MLF | #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable  | .....       | 4,598.19               |                      |
| 26 05 19 16-0428  | MLF | #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable  | .....       | 5,463.83               |                      |
| 26 05 19 16-0429  | MLF | 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 6,355.25               |                      |
| 26 05 19 16-0430  | MLF | 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 7,202.48               |                      |
| 26 05 19 16-0431  | MLF | 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 8,518.76               |                      |
| 26 05 19 16-0432  | MLF | 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 10,129.45              |                      |
| 26 05 19 16-0433  | MLF | 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 11,869.35              |                      |
| 26 05 19 16-0434  | MLF | 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 13,680.84              |                      |
| 26 05 19 16-0435  | MLF | 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 15,625.54              |                      |
| 26 05 19 16-0436  | MLF | 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 17,503.04              |                      |
| 26 05 19 16-0437  | MLF | 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 20,733.18              |                      |
| 26 05 19 16-0438  | MLF | 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 24,882.88              |                      |
| 26 05 19 16-0439  | MLF | 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable | .....       | 39,069.15              |                      |
| 26 05 19 16-0440  | MLF | #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable        | .....       | 6,546.21               |                      |
| 26 05 19 16-0441  | MLF | 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 9,329.52               |                      |
| 26 05 19 16-0442  | MLF | 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 10,365.78              |                      |
| 26 05 19 16-0443  | MLF | 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 11,759.86              |                      |
| 26 05 19 16-0444  | MLF | 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 13,062.58              |                      |
| 26 05 19 16-0445  | MLF | 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 14,086.32              |                      |
| 26 05 19 16-0446  | MLF | 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 19,995.90              |                      |
| 26 05 19 16-0447  | MLF | 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 21,724.37              |                      |
| 26 05 19 16-0448  | MLF | 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable       | .....       | 24,706.78              |                      |
| <b>26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0309)</b> |     |   |             |                        |                      |
| <b>26 05 19 16-0450 ACTHH, Solid (26 05 19 16-0449)</b>                               |     |   |             |                        |                      |
| 26 05 19 16-0451  | MLF | 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable   | .....       | 3,304.44               | 922.93               |
| 26 05 19 16-0452  | MLF | 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable   | .....       | 3,811.51               | 1,045.98             |
| 26 05 19 16-0453  | MLF | 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable   | .....       | 4,363.24               | 1,107.51             |
| 26 05 19 16-0454  | MLF | 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 4,761.16               | 1,538.21             |
| 26 05 19 16-0455  | MLF | 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 5,099.66               | 1,722.49             |
| 26 05 19 16-0456  | MLF | 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 6,462.10               | 1,908.46             |
| 26 05 19 16-0457  | MLF | 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable  | .....       | 8,454.53               | 2,092.74             |
| 26 05 19 16-0458  | MLF | 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 5,760.07               | 1,722.49             |
| 26 05 19 16-0459  | MLF | 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 6,032.25               | 1,908.46             |
| 26 05 19 16-0460  | MLF | 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 7,719.56               | 2,154.43             |
| 26 05 19 16-0461  | MLF | 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable  | .....       | 10,037.24              | 2,337.78             |
| 26 05 19 16-0462  | MLF | 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 6,871.42               | 1,908.46             |
| 26 05 19 16-0463  | MLF | 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 7,528.30               | 2,154.43             |
| 26 05 19 16-0464  | MLF | 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable   | .....       | 9,586.50               | 2,399.77             |
| 26 05 19 16-0465  | MLF | 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable  | .....       | 12,446.43              | 2,585.28             |
| <b>26 05 19 16-0466 ACTHH, Stranded (26 05 19 16-0449)</b>                            |     |   |             |                        |                      |
| 26 05 19 16-0467  | MLF | 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 8,763.63               | 2,216.42             |
| 26 05 19 16-0468  | MLF | 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 10,693.50              | 2,521.60             |
| 26 05 19 16-0469  | MLF | 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 10,345.82              | 2,461.14             |
| 26 05 19 16-0470  | MLF | 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 12,987.77              | 2,766.64             |
| 26 05 19 16-0471  | MLF | 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 16,453.15              | 3,076.43             |
| 26 05 19 16-0472  | MLF | 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 18,922.60              | 3,380.69             |
| 26 05 19 16-0473  | MLF | 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 21,691.08              | 3,688.79             |
| 26 05 19 16-0474  | MLF | 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 13,364.42              | 2,952.45             |
| 26 05 19 16-0475  | MLF | 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 16,193.98              | 3,258.86             |
| 26 05 19 16-0476  | MLF | 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 20,859.74              | 3,568.97             |
| 26 05 19 16-0477  | MLF | 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 22,862.11              | 3,874.61             |
| 26 05 19 16-0478  | MLF | 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable   | .....       | 27,143.94              | 4,179.94             |
| <b>26 05 19 16-0479 HCFC, Solid (26 05 19 16-0449)</b>                                |     |   |             |                        |                      |
| 26 05 19 16-0480  | MLF | 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable   | .....       | 5,336.29               | 1,538.21             |
| 26 05 19 16-0481  | MLF | 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable   | .....       | 5,840.88               | 1,728.33             |
| 26 05 19 16-0482  | MLF | 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable   | .....       | 6,530.05               | 1,899.08             |
| 26 05 19 16-0483  | MLF | 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable   | .....       | 6,474.68               | 1,728.33             |
| 26 05 19 16-0484  | MLF | 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable   | .....       | 6,944.78               | 1,899.08             |
| 26 05 19 16-0485  | MLF | 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable   | .....       | 9,096.54               | 2,166.58             |
| 26 05 19 16-0486  | MLF | 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable   | .....       | 7,964.98               | 1,899.08             |
| 26 05 19 16-0487  | MLF | 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable   | .....       | 8,698.68               | 2,166.58             |
| 26 05 19 16-0488  | MLF | 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable   | .....       | 11,915.51              | 2,403.46             |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 19 Low-Voltage Electrical Power Conductors and Cables**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor** (26 05 19 16-0449)

|                  |   |           |          |
|------------------|---|-----------|----------|
| 26 05 19 16-0490 | MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 4,497.67  | 1,538.21 |
| 26 05 19 16-0491 | MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 5,030.10  | 1,728.33 |
| 26 05 19 16-0492 | MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 5,933.58  | 1,899.08 |
| 26 05 19 16-0493 | MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 7,335.72  | 2,029.37 |
| 26 05 19 16-0494 | MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 8,896.39  | 2,151.35 |
| 26 05 19 16-0495 | MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 5,164.25  | 1,728.33 |
| 26 05 19 16-0496 | MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 5,794.46  | 1,899.08 |
| 26 05 19 16-0497 | MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 7,207.43  | 2,166.58 |
| 26 05 19 16-0498 | MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 9,064.93  | 2,337.78 |
| 26 05 19 16-0499 | MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 10,467.35 | 2,521.60 |
| 26 05 19 16-0500 | MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 12,693.38 | 2,708.18 |
| 26 05 19 16-0501 | MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 17,020.58 | 2,891.38 |
| 26 05 19 16-0502 | MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 5,921.41  | 1,899.08 |
| 26 05 19 16-0503 | MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 6,777.89  | 2,166.58 |
| 26 05 19 16-0504 | MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable ..... | 9,695.90  | 2,403.46 |
| 26 05 19 16-0505 | MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 12,767.47 | 2,647.58 |
| 26 05 19 16-0506 | MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 15,352.25 | 2,832.78 |
| 26 05 19 16-0507 | MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 19,807.74 | 3,016.13 |
| 26 05 19 16-0508 | MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....  | 25,153.95 | 3,197.95 |

**26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor** (26 05 19 16-0449)

|                  |   |          |          |
|------------------|---|----------|----------|
| 26 05 19 16-0510 | MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 4,468.80 | 1,538.21 |
| 26 05 19 16-0511 | MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 4,955.25 | 1,728.33 |
| 26 05 19 16-0512 | MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 5,867.38 | 1,899.08 |
| 26 05 19 16-0513 | MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 5,284.81 | 1,728.33 |
| 26 05 19 16-0514 | MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 5,727.96 | 1,899.08 |
| 26 05 19 16-0515 | MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 7,154.84 | 2,166.58 |
| 26 05 19 16-0516 | MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 6,494.59 | 1,899.08 |
| 26 05 19 16-0517 | MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 7,193.32 | 2,166.58 |
| 26 05 19 16-0518 | MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable ..... | 9,695.90 | 2,403.46 |

**26 05 19 16-0519 FPLP Solid TFN Red Armored Cable** (26 05 19 16-0449)

Note: Color coded red.

|                  |  |          |          |
|------------------|--|----------|----------|
| 26 05 19 16-0520 | MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable ..... | 4,611.47 | 1,169.04 |
| 26 05 19 16-0521 | MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable ..... | 5,244.04 | 1,353.63 |
| 26 05 19 16-0522 | MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable ..... | 6,461.86 | 1,538.21 |
| 26 05 19 16-0523 | MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable ..... | 7,400.21 | 1,722.81 |
| 26 05 19 16-0524 | MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable ..... | 5,255.18 | 1,353.63 |
| 26 05 19 16-0525 | MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable ..... | 6,194.55 | 1,538.21 |
| 26 05 19 16-0526 | MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable ..... | 7,721.17 | 1,722.81 |
| 26 05 19 16-0527 | MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable ..... | 8,768.88 | 1,907.39 |

**26 05 19 16-0528 FPLP Solid THHN Red Armored Cable** (26 05 19 16-0449)

Note: Color coded red.

|                  |  |           |          |
|------------------|--|-----------|----------|
| 26 05 19 16-0529 | MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable ..... | 5,847.26  | 1,538.21 |
| 26 05 19 16-0530 | MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable ..... | 7,208.84  | 1,722.81 |
| 26 05 19 16-0531 | MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable ..... | 9,484.72  | 1,907.39 |
| 26 05 19 16-0532 | MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable ..... | 10,963.75 | 2,091.97 |
| 26 05 19 16-0533 | MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable ..... | 7,316.17  | 1,722.81 |
| 26 05 19 16-0534 | MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable ..... | 8,896.46  | 1,907.39 |

**26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable** (26 05 19 16-0449)

Note: Color coded red.

|                  |  |          |          |
|------------------|--|----------|----------|
| 26 05 19 16-0536 | MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....                                  | 4,975.97 | 1,169.04 |
| 26 05 19 16-0537 | MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable ..... | 7,931.77 | 1,722.81 |
| 26 05 19 16-0538 | MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....                                  | 6,096.57 | 1,353.63 |
| 26 05 19 16-0539 | MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable .....                             | 7,184.78 | 1,538.21 |
| 26 05 19 16-0540 | MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable .....        | 9,927.19 | 1,907.39 |
| 26 05 19 16-0541 | MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....           | 7,145.22 | 1,599.74 |
| 26 05 19 16-0542 | MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....           | 8,791.24 | 1,845.86 |

**26 05 19 16-0543 Armored Cable Connectors** (26 05 19 16-0449)

|                  |   |      |      |
|------------------|---|------|------|
| 26 05 19 16-0544 | EA 3/4" Armored Cable Connector .....   | 9.19 | 3.38 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 2.53 |      |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 0.84 |      |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 1.69 |      |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.11 |      |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 2.95 |      |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 3.38 |      |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 4.22 |      |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 4.64 |      |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2.53 |      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 19 16-0545 EA 1" Armored Cable Connector.....  | 12.26                     | 4.50                    |
| For Work In Restricted Working Space, Add  | 3.37                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.25                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.81                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.93                      |                         |
| For Elevated Installation >30' To 35', Add   | 4.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 5.62                      |                         |
| For Elevated Installation >40', Add  | 6.18                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 3.37                      |                         |
| 26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....  | 15.40                     | 5.62                    |
| For Work In Restricted Working Space, Add  | 4.22                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.41                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.81                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.52                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.92                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.62                      |                         |
| For Elevated Installation >35' To 40', Add   | 7.03                      |                         |
| For Elevated Installation >40', Add  | 7.73                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 4.22                      |                         |
| <b>26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper</b> <small>(26 05 19 16-0309)</small>              |                           |                         |
| 26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 1,126.91                  | 225.30                  |
| For EPR Insulation, Add  | 42.54                     |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 99.26                     |                         |
| 26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 1,272.96                  | 249.48                  |
| For EPR Insulation, Add  | 43.37                     |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 101.19                    |                         |
| 26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 1,546.50                  | 311.88                  |
| For EPR Insulation, Add  | 63.31                     |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 147.73                    |                         |
| 26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....    | 2,099.43                  | 496.14                  |
| For EPR Insulation, Add  | 104.09                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 242.87                    |                         |
| 26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....    | 2,852.66                  | 595.37                  |
| For EPR Insulation, Add  | 174.91                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 408.11                    |                         |
| 26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....    | 3,872.32                  | 691.24                  |
| For EPR Insulation, Add  | 264.61                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 617.42                    |                         |
| 26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....    | 4,416.72                  | 791.17                  |
| For EPR Insulation, Add  | 304.10                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 709.57                    |                         |
| 26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....    | 5,535.56                  | 891.10                  |
| For EPR Insulation, Add  | 429.76                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 1,002.78                  |                         |
| 26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....    | 6,822.76                  | 992.43                  |
| For EPR Insulation, Add  | 580.68                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 1,354.92                  |                         |
| 26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 8,208.09                  | 1,119.63                |
| For EPR Insulation, Add  | 725.23                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 1,692.20                  |                         |
| 26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 9,872.40                  | 1,241.63                |
| For EPR Insulation, Add  | 911.63                    |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 2,127.13                  |                         |
| 26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 11,811.14                 | 1,386.12                |
| For EPR Insulation, Add  | 1,139.19                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 2,658.11                  |                         |
| 26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 13,311.19                 | 1,541.15                |
| For EPR Insulation, Add  | 1,300.95                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 3,035.55                  |                         |
| 26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 14,187.18                 | 1,690.27                |
| For EPR Insulation, Add  | 1,369.10                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 3,194.57                  |                         |
| 26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 16,692.93                 | 1,858.09                |
| For EPR Insulation, Add  | 1,681.71                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 3,924.00                  |                         |
| 26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 18,600.60                 | 1,969.83                |
| For EPR Insulation, Add  | 1,904.62                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 4,444.10                  |                         |
| 26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 20,811.95                 | 2,201.59                |
| For EPR Insulation, Add  | 2,173.07                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 5,070.50                  |                         |
| 26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 23,734.03                 | 2,448.55                |
| For EPR Insulation, Add  | 2,548.14                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 5,945.65                  |                         |
| 26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 27,730.96                 | 2,547.49                |
| For EPR Insulation, Add  | 3,063.34                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 7,147.80                  |                         |
| 26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....   | 44,621.93                 | 2,646.30                |
| For EPR Insulation, Add  | 5,470.49                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 12,764.48                 |                         |
| 26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... | 56,032.64                 | 2,827.62                |
| For EPR Insulation, Add  | 7,097.77                  |                         |
| For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add  | 16,561.46                 |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

| MINOR CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---------------------------|------------------------|----------------------|
|---------------------------|------------------------|----------------------|

|                  |  |           |          |
|------------------|--|-----------|----------|
| 26 05 19 16-0569 | MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                 | 1,925.18  | 505.70   |
| 26 05 19 16-0570 | MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                 | 2,386.21  | 562.21   |
| 26 05 19 16-0571 | MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                 | 2,985.60  | 675.21   |
| 26 05 19 16-0572 | MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                 | 3,535.77  | 786.81   |
| 26 05 19 16-0573 | MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                  | 5,168.63  | 842.47   |
| 26 05 19 16-0574 | MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                  | 651.27    | 281.10   |
| 26 05 19 16-0575 | MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit                  | 812.38    | 309.21   |
| 26 05 19 16-0576 | MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 842.98    | 225.44   |
| 26 05 19 16-0577 | MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 1,043.93  | 268.74   |
| 26 05 19 16-0578 | MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 1,285.26  | 338.03   |
| 26 05 19 16-0579 | MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit              | 1,789.55  | 445.54   |
| 26 05 19 16-0580 | MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit              | 2,413.42  | 538.03   |
| 26 05 19 16-0581 | MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit              | 3,163.89  | 635.85   |
| 26 05 19 16-0582 | MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit              | 3,772.29  | 719.76   |
| 26 05 19 16-0583 | MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit              | 4,493.00  | 806.07   |
| 26 05 19 16-0584 | MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit              | 5,330.81  | 909.65   |
| 26 05 19 16-0585 | MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 6,199.86  | 996.09   |
| 26 05 19 16-0586 | MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 7,020.14  | 1,100.80 |
| 26 05 19 16-0587 | MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 8,287.12  | 1,164.32 |
| 26 05 19 16-0588 | MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 9,841.20  | 1,309.93 |
| 26 05 19 16-0589 | MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 11,518.32 | 1,393.56 |
| 26 05 19 16-0590 | MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 13,263.63 | 1,578.25 |
| 26 05 19 16-0591 | MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 15,135.81 | 1,746.63 |
| 26 05 19 16-0592 | MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 16,944.00 | 1,794.42 |
| 26 05 19 16-0593 | MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 20,040.37 | 1,898.42 |
| 26 05 19 16-0594 | MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 24,742.33 | 2,234.07 |
| 26 05 19 16-0595 | MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit             | 37,570.10 | 2,646.30 |
| 26 05 19 16-0596 | MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit           | 44,966.31 | 3,195.01 |
| 26 05 19 16-0597 | MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit | 3,144.53  | 675.21   |
| 26 05 19 16-0598 | MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit | 3,512.87  | 786.81   |
| 26 05 19 16-0599 | MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit | 4,064.53  | 900.23   |
| 26 05 19 16-0600 | MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit | 5,206.25  | 1,011.55 |
| 26 05 19 16-0601 | MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit  | 5,888.82  | 1,124.41 |
| 26 05 19 16-0602 | MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit  | 7,415.23  | 1,235.73 |

**26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0309)**

|                  |  |           |          |
|------------------|--|-----------|----------|
| 26 05 19 16-0604 | MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit    | 1,457.74  | 398.72   |
| 26 05 19 16-0605 | MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit    | 1,727.25  | 463.63   |
| 26 05 19 16-0606 | MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit    | 2,259.01  | 595.14   |
| 26 05 19 16-0607 | MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit    | 2,790.82  | 664.58   |
| 26 05 19 16-0608 | MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 3,227.32  | 748.75   |
| 26 05 19 16-0609 | MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 3,667.73  | 826.41   |
| 26 05 19 16-0610 | MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 4,321.44  | 932.64   |
| 26 05 19 16-0611 | MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 4,783.45  | 1,028.96 |
| 26 05 19 16-0612 | MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 5,527.18  | 1,131.15 |
| 26 05 19 16-0613 | MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 6,803.70  | 1,230.11 |
| 26 05 19 16-0614 | MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 7,112.74  | 1,329.04 |
| 26 05 19 16-0615 | MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 8,126.84  | 1,478.25 |
| 26 05 19 16-0616 | MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 8,956.18  | 1,627.41 |
| 26 05 19 16-0617 | MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 10,932.04 | 1,895.76 |
| 26 05 19 16-0618 | MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 12,344.63 | 2,078.28 |
| 26 05 19 16-0619 | MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit   | 12,609.99 | 2,155.32 |
| 26 05 19 16-0620 | MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit | 17,288.20 | 2,614.53 |
| 26 05 19 16-0621 | MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit              | 1,776.02  | 499.10   |
| 26 05 19 16-0622 | MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit              | 1,997.44  | 562.21   |
| 26 05 19 16-0623 | MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit              | 2,458.68  | 691.66   |
| 26 05 19 16-0624 | MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit              | 3,110.03  | 847.81   |
| 26 05 19 16-0625 | MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit              | 3,945.57  | 998.06   |
| 26 05 19 16-0626 | MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 4,552.78  | 1,124.83 |
| 26 05 19 16-0627 | MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 5,180.36  | 1,249.36 |
| 26 05 19 16-0628 | MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 5,962.89  | 1,363.07 |
| 26 05 19 16-0629 | MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 6,465.99  | 1,450.63 |
| 26 05 19 16-0630 | MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 7,346.59  | 1,552.11 |
| 26 05 19 16-0631 | MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 8,946.49  | 1,663.42 |
| 26 05 19 16-0632 | MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 9,359.31  | 1,796.95 |
| 26 05 19 16-0633 | MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 10,589.27 | 1,959.57 |
| 26 05 19 16-0634 | MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 11,898.58 | 2,248.82 |
| 26 05 19 16-0635 | MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 13,869.19 | 2,366.60 |
| 26 05 19 16-0636 | MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 15,418.13 | 2,495.07 |
| 26 05 19 16-0637 | MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit             | 15,903.35 | 2,651.64 |
| 26 05 19 16-0638 | MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit           | 23,097.49 | 3,716.18 |
| 26 05 19 16-0639 | MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit          | 1,988.66  | 562.21   |
| 26 05 19 16-0640 | MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit          | 2,478.35  | 691.52   |
| 26 05 19 16-0641 | MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit          | 3,088.73  | 848.93   |
| 26 05 19 16-0642 | MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit          | 3,863.81  | 992.43   |
| 26 05 19 16-0643 | MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit         | 4,365.15  | 1,119.63 |
| 26 05 19 16-0644 | MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit         | 4,936.84  | 1,241.63 |
| 26 05 19 16-0645 | MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit         | 5,706.98  | 1,363.07 |
| 26 05 19 16-0646 | MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit         | 6,225.76  | 1,450.63 |
| 26 05 19 16-0647 | MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit         | 7,043.46  | 1,551.13 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 8,495.71                  | 1,665.54                |
| 26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 8,996.91                  | 1,799.34                |
| 26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 9,952.80                  | 1,955.07                |
| 26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 11,453.44                 | 2,248.82                |
| 26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 13,064.89                 | 2,360.28                |
| 26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 14,468.38                 | 2,495.07                |
| 26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....                           | 15,039.69                 | 2,643.63                |
| <br>  |                           |                         |
| <b>26 05 19 16-0655 Non-Metallic Sheathed Cable</b> <small>(26 05 19 16-0309)</small>   |                           |                         |
| <b>26 05 19 16-0656 Indoor Installation</b> <small>(26 05 19 16-0655)</small>   |                           |                         |
| <small>Note: For NM, NM-B, NMC-B and NMS-B.</small>   |                           |                         |
| 26 05 19 16-0657 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 3,323.82                  | 1,068.05                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>400.51</i>             |                         |
| 26 05 19 16-0658 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 4,129.11                  | 1,293.07                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>484.92</i>             |                         |
| 26 05 19 16-0659 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 5,667.33                  | 1,430.82                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>536.55</i>             |                         |
| 26 05 19 16-0660 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 4,009.80                  | 1,214.36                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>432.20</i>             |                         |
| 26 05 19 16-0661 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 5,505.25                  | 1,349.01                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>505.90</i>             |                         |
| 26 05 19 16-0662 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 7,064.99                  | 1,506.71                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>565.02</i>             |                         |
| 26 05 19 16-0663 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 4,931.38                  | 1,349.71                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>506.16</i>             |                         |
| 26 05 19 16-0664 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 7,333.43                  | 1,574.46                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>590.42</i>             |                         |
| 26 05 19 16-0665 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                | 8,675.98                  | 1,799.06                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>674.65</i>             |                         |
| 26 05 19 16-0666 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                 | 8,417.59                  | 1,616.34                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>575.56</i>             |                         |
| 26 05 19 16-0667 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                 | 10,661.33                 | 1,953.67                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>695.73</i>             |                         |
| 26 05 19 16-0668 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                 | 10,803.80                 | 1,841.22                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>653.56</i>             |                         |
| 26 05 19 16-0669 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                 | 14,238.93                 | 2,220.71                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>790.60</i>             |                         |
| 26 05 19 16-0670 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                 | 30,740.98                 | 2,445.59                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>869.66</i>             |                         |
| 26 05 19 16-0671 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....                                 | 35,713.77                 | 2,656.42                |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | <i>948.72</i>             |                         |
| <br>  |                           |                         |
| <b>26 05 19 16-0672 Direct Burial Cable</b> <small>(26 05 19 16-0655)</small>   |                           |                         |
| <small>Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.</small>   |                           |                         |
| 26 05 19 16-0673 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench ..... | 3,125.17                  |                         |
| 26 05 19 16-0674 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench ..... | 4,052.19                  |                         |
| 26 05 19 16-0675 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench ..... | 3,950.10                  |                         |
| 26 05 19 16-0676 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench ..... | 4,986.62                  |                         |
| 26 05 19 16-0677 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench ..... | 4,256.36                  |                         |
| 26 05 19 16-0678 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench ..... | 5,998.68                  |                         |
| 26 05 19 16-0679 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....   | 6,380.22                  |                         |
| 26 05 19 16-0680 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....   | 8,116.79                  |                         |
| 26 05 19 16-0681 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....   | 7,988.02                  |                         |
| 26 05 19 16-0682 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....   | 10,407.63                 |                         |
| <br>  |                           |                         |
| <b>26 05 19 16-0683 SEU Cable Copper, 3 Conductor</b> <small>(26 05 19 16-0655)</small>   |                           |                         |
| 26 05 19 16-0684 MLF 12-12-12 Cable SEU Copper .....  | 4,130.81                  | 1,354.09                |
| 26 05 19 16-0685 MLF 10-10-10 Cable SEU Copper .....  | 5,178.53                  | 1,538.21                |
| 26 05 19 16-0686 MLF 8-8-8 Cable SEU Copper .....   | 6,436.97                  | 1,722.49                |
| 26 05 19 16-0687 MLF 6-6-8 Cable SEU Copper .....   | 7,766.05                  | 1,846.63                |
| 26 05 19 16-0688 MLF 6-6-6 Cable SEU Copper.....  | 8,351.62                  | 1,908.46                |
| 26 05 19 16-0689 MLF 4-4-6 Cable SEU Copper .....   | 10,173.74                 | 2,092.74                |
| 26 05 19 16-0690 MLF 4-4-4 Cable SEU Copper .....   | 10,959.36                 | 2,154.43                |
| 26 05 19 16-0691 MLF 3-3-5 Cable SEU Copper .....   | 12,755.62                 | 2,337.78                |
| 26 05 19 16-0692 MLF 3-3-3 Cable SEU Copper .....   | 13,548.08                 | 2,461.14                |
| 26 05 19 16-0693 MLF 2-2-4 Cable SEU Copper .....   | 14,471.87                 | 2,585.28                |
| 26 05 19 16-0694 MLF 2-2-2 Cable SEU Copper .....   | 15,471.06                 | 2,708.18                |
| 26 05 19 16-0695 MLF 1-1-1 Cable SEU Copper .....   | 18,931.81                 | 3,076.43                |
| 26 05 19 16-0696 MLF 1/0-1/0-1/0 Cable SEU Copper .....   | 22,525.62                 | 3,448.99                |
| 26 05 19 16-0697 MLF 2/0-2/0-2/0 Cable SEU Copper .....   | 27,119.52                 | 3,884.46                |
| 26 05 19 16-0698 MLF 3/0-3/0-3/0 Cable SEU Copper .....   | 32,620.76                 | 4,320.85                |
| 26 05 19 16-0699 MLF 4/0-4/0-4/0 Cable SEU Copper .....   | 36,455.34                 | 4,822.00                |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 19 16-0700 SEU Cable Aluminum, 3 Conductor</b> (26 05 19 16-0655)                             |                           |                         |
| 26 05 19 16-0701 MLF 8-8-8 Cable SEU Aluminum.....   | 5,360.08                  | 1,728.33                |
| 26 05 19 16-0702 MLF 6-6-6 Cable SEU Aluminum.....   | 6,083.73                  | 1,899.08                |
| 26 05 19 16-0703 MLF 4-4-6 Cable SEU Aluminum.....   | 6,812.16                  | 2,078.75                |
| 26 05 19 16-0704 MLF 4-4-4 Cable SEU Aluminum.....   | 7,129.35                  | 2,166.58                |
| 26 05 19 16-0705 MLF 2-2-4 Cable SEU Aluminum.....   | 8,519.46                  | 2,563.74                |
| 26 05 19 16-0706 MLF 2-2-2 Cable SEU Aluminum.....   | 9,035.17                  | 2,698.65                |
| 26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum.....   | 10,792.49                 | 3,076.43                |
| 26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum.....   | 11,417.73                 | 3,238.41                |
| 26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....   | 13,687.90                 | 3,418.22                |
| 26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum.....   | 12,893.54                 | 3,662.49                |
| 26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....   | 13,612.18                 | 3,845.54                |
| 26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....   | 14,769.12                 | 4,026.74                |
| 26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....   | 15,787.67                 | 4,272.85                |
| 26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....   | 16,707.64                 | 4,619.26                |
| 26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....   | 17,619.35                 | 4,806.92                |
| <b>26 05 19 16-0716 SER Cable Copper, 4 Conductor</b> (26 05 19 16-0655)                               |                           |                         |
| 26 05 19 16-0717 MLF 6-6-6-6 Cable SER Copper.....   | 11,923.61                 | 2,216.42                |
| 26 05 19 16-0718 MLF 4-4-4-6 Cable SER Copper.....   | 13,063.27                 | 2,399.77                |
| 26 05 19 16-0719 MLF 3-3-3-5 Cable SER Copper.....   | 16,088.01                 | 2,708.18                |
| 26 05 19 16-0720 MLF 2-2-2-4 Cable SER Copper.....   | 18,361.96                 | 2,952.45                |
| 26 05 19 16-0721 MLF 1-1-1-3 Cable SER Copper.....   | 21,378.65                 | 3,380.69                |
| 26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper.....   | 25,946.33                 | 3,874.61                |
| 26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper.....   | 32,253.15                 | 4,179.94                |
| 26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....   | 37,196.33                 | 4,675.41                |
| <b>26 05 19 16-0725 SER Cable Aluminum, 4 Conductor</b> (26 05 19 16-0655)                             |                           |                         |
| 26 05 19 16-0726 MLF 8-8-8-8 Cable SER Aluminum.....   | 7,046.59                  | 2,068.75                |
| 26 05 19 16-0727 MLF 6-6-6-6 Cable SER Aluminum.....   | 7,689.56                  | 2,216.42                |
| 26 05 19 16-0728 MLF 4-4-4-6 Cable SER Aluminum.....   | 8,622.56                  | 2,399.77                |
| 26 05 19 16-0729 MLF 2-2-2-4 Cable SER Aluminum.....   | 10,874.79                 | 2,952.45                |
| 26 05 19 16-0730 MLF 1-1-1-3 Cable SER Aluminum.....   | 13,124.75                 | 3,380.69                |
| 26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....   | 14,817.08                 | 3,874.61                |
| 26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....   | 16,607.31                 | 4,179.94                |
| 26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....   | 18,922.62                 | 4,675.41                |
| 26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....   | 21,506.90                 | 5,209.78                |
| <b>26 05 19 16-0735 ACSR (Aluminum Conductor Steel Reinforced)</b> (26 05 19 16-0011)                  |                           |                         |
| Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.                        |                           |                         |
| <b>26 05 19 16-0736 ACSR Cable</b> (26 05 19 16-0735)  |                           |                         |
| 26 05 19 16-0737 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial).....     | 2,467.31                  | 688.28                  |
| 26 05 19 16-0738 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial).....  | 2,670.53                  | 714.69                  |
| 26 05 19 16-0739 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial).....  | 2,974.61                  | 742.20                  |
| 26 05 19 16-0740 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial).....  | 3,177.90                  | 769.07                  |
| 26 05 19 16-0741 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial).....   | 3,724.06                  | 795.16                  |
| 26 05 19 16-0742 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial).....   | 4,414.03                  | 901.39                  |
| 26 05 19 16-0743 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial).....  | 5,216.97                  | 1,005.23                |
| 26 05 19 16-0744 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)..... | 6,136.67                  | 1,110.52                |
| 26 05 19 16-0745 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....  | 6,810.86                  | 1,427.15                |
| 26 05 19 16-0746 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial).....   | 7,706.27                  | 1,637.06                |
| <b>26 05 19 16-0747 All Aluminum Conductors</b> (26 05 19 16-0735)                                     |                           |                         |
| 26 05 19 16-0748 MLF 795.0 ACSR Conductor Aluminum.....  | 49,926.36                 | 13,394.67               |
| <b>26 05 19 16-0749 Single Conductor Installed On Poles</b> (26 05 19 16-0011)                         |                           |                         |
| <b>26 05 19 16-0750 Bare Stranded Conductor</b> (26 05 19 16-0749)                                     |                           |                         |
| 26 05 19 16-0751 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 1,684.70                  | 583.17                  |
| 26 05 19 16-0752 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 1,941.70                  | 635.65                  |
| 26 05 19 16-0753 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....     | 2,200.39                  | 688.76                  |
| 26 05 19 16-0754 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....     | 2,627.08                  | 742.20                  |
| 26 05 19 16-0755 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....     | 3,122.35                  | 795.79                  |
| 26 05 19 16-0756 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....     | 4,346.77                  | 954.50                  |
| 26 05 19 16-0757 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....     | 4,970.33                  | 1,060.26                |
| 26 05 19 16-0758 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 5,641.12                  | 1,164.10                |
| 26 05 19 16-0759 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 7,443.51                  | 1,380.71                |
| 26 05 19 16-0760 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 8,973.20                  | 1,587.45                |
| 26 05 19 16-0761 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 9,695.49                  | 1,799.12                |
| 26 05 19 16-0762 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 12,166.64                 | 2,120.36                |
| 26 05 19 16-0763 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 12,488.17                 | 2,232.00                |
| 26 05 19 16-0764 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 15,288.31                 | 2,337.43                |
| 26 05 19 16-0765 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....    | 16,793.86                 | 2,433.33                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 19 16-0766 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....      | 19,376.14                 | 2,537.18                |
| <b>26 05 19 16-0767 Insulated Stranded Conductor</b> <small>(26 05 19 16-0749)</small>                   |                           |                         |
| 26 05 19 16-0768 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 1,789.51                  | 583.17                  |
| 26 05 19 16-0769 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 2,076.93                  | 635.65                  |
| 26 05 19 16-0770 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....  | 2,467.35                  | 688.76                  |
| 26 05 19 16-0771 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....  | 2,677.61                  | 742.20                  |
| 26 05 19 16-0772 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....  | 3,199.44                  | 795.79                  |
| 26 05 19 16-0773 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....  | 4,235.43                  | 954.50                  |
| 26 05 19 16-0774 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....  | 4,959.22                  | 1,060.26                |
| 26 05 19 16-0775 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 5,796.14                  | 1,164.10                |
| 26 05 19 16-0776 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 6,967.46                  | 1,380.71                |
| 26 05 19 16-0777 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 8,309.63                  | 1,587.45                |
| 26 05 19 16-0778 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 9,747.26                  | 1,799.12                |
| 26 05 19 16-0779 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 11,849.91                 | 2,120.36                |
| 26 05 19 16-0780 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 13,326.55                 | 2,232.00                |
| 26 05 19 16-0781 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 14,540.44                 | 2,337.43                |
| 26 05 19 16-0782 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 16,173.78                 | 2,433.33                |
| 26 05 19 16-0783 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles..... | 18,057.24                 | 2,537.18                |
| <b>26 05 19 16-0784 Bare Solid Conductor</b> <small>(26 05 19 16-0749)</small>                           |                           |                         |
| 26 05 19 16-0785 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....         | 1,684.70                  | 583.17                  |
| 26 05 19 16-0786 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....          | 2,200.39                  | 688.76                  |
| 26 05 19 16-0787 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....          | 2,627.08                  | 742.20                  |
| 26 05 19 16-0788 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....          | 3,090.49                  | 795.79                  |
| <b>26 05 23 Control-Voltage Electrical Power Cables</b> <small>(26 05)</small>                           |                           |                         |
| 26 05 23 00-0001 Cable For HVAC System Controls <small>(26 05 23)</small>                                |                           |                         |
| 26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt <small>(26 05 23 00-0001)</small>              |                           |                         |
| <small>Note: For surface or conduit installation.</small>  |                           |                         |
| 26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable.....                                     | 583.12                    | 179.20                  |
| 26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable.....                                     | 659.39                    | 188.76                  |
| 26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable.....                                     | 712.62                    | 199.58                  |
| 26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable.....                                     | 840.68                    | 208.02                  |
| 26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable.....                                     | 880.01                    | 217.86                  |
| 26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable.....                                     | 964.36                    | 226.92                  |
| 26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable.....                                     | 1,038.19                  | 235.98                  |
| 26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable.....                                     | 1,122.83                  | 245.40                  |
| 26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable.....                                    | 1,203.47                  | 252.77                  |
| 26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable.....                                     | 627.07                    | 179.20                  |
| 26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable.....                                     | 737.79                    | 188.76                  |
| 26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable.....                                     | 837.01                    | 199.58                  |
| 26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable.....                                     | 892.04                    | 208.02                  |
| 26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable.....                                     | 983.16                    | 217.86                  |
| 26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable.....                                     | 1,011.72                  | 226.92                  |
| 26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable.....                                     | 1,110.47                  | 235.98                  |
| 26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable.....                                     | 1,296.25                  | 245.40                  |
| 26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable.....                                    | 1,417.36                  | 252.77                  |
| <b>26 05 26 Grounding and Bonding for Electrical Systems</b> <small>(26 05)</small>                      |                           |                         |
| 26 05 26 00-0001 Conductors, Straps And Conduit Jumpers <small>(26 05 26)</small>                        |                           |                         |
| 26 05 26 00-0002 Single Conductor <small>(26 05 26 00-0001)</small>                                      |                           |                         |
| 26 05 26 00-0003 Copper Bare Stranded Conductors <small>(26 05 26 00-0002)</small>                       |                           |                         |
| 26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor.....                                   | 690.92                    | 269.90                  |
| 26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor.....                                   | 897.81                    | 269.90                  |
| 26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor.....                                    | 1,105.79                  | 325.12                  |
| 26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor.....                                    | 1,490.70                  | 325.12                  |
| 26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor.....                                    | 1,975.16                  | 392.59                  |
| 26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor.....                                    | 3,060.05                  | 392.59                  |
| 26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor.....                                    | 3,529.43                  | 472.34                  |
| 26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor.....                                  | 4,135.90                  | 472.34                  |
| 26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor.....                                  | 5,753.57                  | 595.02                  |
| 26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor.....                                  | 7,072.40                  | 595.02                  |
| 26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor.....                                  | 7,530.28                  | 791.32                  |
| 26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor.....                                  | 9,623.62                  | 791.32                  |
| 26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor.....                                  | 9,673.05                  | 914.00                  |
| 26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor.....                                  | 12,961.61                 | 914.00                  |
| 26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor.....                                  | 17,645.70                 | 1,128.70                |
| 26 05 26 00-0019 Copper Insulated Single Stranded Conductors <small>(26 05 26 00-0002)</small>           |                           |                         |
| 26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor.....                              | 1,245.01                  | 368.06                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor .....  | 1,339.49                  | 368.06                  |
| 26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor .....   | 1,704.97                  | 368.06                  |
| 26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor .....   | 1,947.75                  | 637.96                  |
| 26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor .....   | 2,610.92                  | 637.96                  |
| 26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor .....   | 3,658.37                  | 637.96                  |
| 26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor .....   | 4,406.95                  | 1,116.43                |
| 26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor .....   | 5,361.97                  | 1,116.43                |
| 26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor .....   | 6,261.95                  | 1,116.43                |
| 26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor .....   | 7,430.72                  | 1,116.43                |
| 26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor .....   | 8,739.57                  | 1,459.95                |
| 26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor .....   | 10,530.52                 | 1,459.95                |
| 26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor .....   | 12,239.45                 | 1,459.95                |
| 26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor .....   | 14,389.60                 | 2,269.67                |
| 26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor .....   | 18,711.81                 | 2,269.67                |
| <b>26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)</b>  |                           |                         |
| 26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor .....  | 690.92                    | 269.90                  |
| 26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor .....  | 897.81                    | 269.90                  |
| 26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor .....   | 1,105.79                  | 325.12                  |
| 26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor .....   | 1,490.70                  | 325.12                  |
| 26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor .....   | 1,975.15                  | 392.59                  |
| 26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor .....   | 3,060.05                  | 392.59                  |
| 26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor .....   | 4,135.90                  | 472.34                  |
| 26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor .....   | 7,530.28                  | 625.70                  |
| <b>26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)</b>   |                           |                         |
| 26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor .....  | 861.69                    | 325.12                  |
| 26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor .....  | 952.36                    | 325.12                  |
| 26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor .....  | 1,093.23                  | 392.59                  |
| 26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor .....  | 1,382.67                  | 392.59                  |
| 26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor .....  | 1,612.17                  | 472.34                  |
| 26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor .....  | 1,846.86                  | 472.34                  |
| 26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor .....  | 2,113.51                  | 595.02                  |
| 26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor .....  | 2,441.82                  | 595.02                  |
| 26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor .....  | 2,902.29                  | 791.32                  |
| 26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor .....  | 3,266.08                  | 791.32                  |
| 26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor .....  | 3,924.22                  | 914.00                  |
| 26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor .....  | 4,481.63                  | 914.00                  |
| 26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor .....  | 5,265.41                  | 1,128.70                |
| <b>26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)</b>  |                           |                         |
| 26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor .....   | 861.69                    | 325.12                  |
| 26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor .....   | 952.36                    | 325.12                  |
| 26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor .....   | 1,093.23                  | 392.59                  |
| 26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor .....   | 1,382.67                  | 392.59                  |
| 26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor .....   | 1,562.66                  | 625.70                  |
| 26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor .....   | 1,846.86                  | 625.70                  |
| 26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor .....   | 1,990.86                  | 595.02                  |
| 26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor .....   | 2,194.85                  | 595.02                  |
| 26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor .....   | 2,902.29                  | 791.32                  |
| 26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor .....   | 3,266.08                  | 791.32                  |
| 26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor .....   | 3,924.22                  | 914.00                  |
| 26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor .....   | 4,481.63                  | 914.00                  |
| 26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor .....   | 5,265.41                  | 1,128.70                |
| <b>26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)</b>   |                           |                         |
| 26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor .....  | 3.47                      | 1.06                    |
| 26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor .....  | 3.83                      | 1.17                    |
| 26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor .....  | 4.54                      | 1.34                    |
| 26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor .....  | 4.57                      | 1.37                    |
| 26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor .....  | 4.79                      | 1.43                    |
| <b>26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)</b>   |                           |                         |
| Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end. |                           |                         |
| 26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length .....   | 165.66                    | 38.46                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 23.07                     |                         |
| 26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length .....   | 280.89                    | 46.15                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 27.69                     |                         |
| 26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length .....   | 356.40                    | 46.15                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 27.69                     |                         |
| 26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length .....   | 430.88                    | 46.15                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 27.69                     |                         |
| 26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length .....   | 377.08                    | 49.99                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 34.61                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 485.70<br>34.61           | 49.99                   |
| 26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 580.09<br>34.61           | 49.99                   |
| 26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 487.97<br>38.07           | 63.45                   |
| 26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 586.96<br>46.15           | 76.91                   |
| <b>26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)</b>   |                           |                         |
| 26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 227.96<br>48.07           | 84.60                   |
| 26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 280.82<br>59.16           | 84.60                   |
| 26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 404.80<br>69.92           | 130.75                  |
| 26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 591.30<br>85.46           | 130.75                  |
| <b>26 05 26 00-0093 Ground Rods (26 05 26)</b>   |                           |                         |
| <b>26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)</b>   |                           |                         |
| 26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods .....  | 125.71                    | 115.36                  |
| 26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods .....  | 130.31                    | 115.36                  |
| 26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods .....  | 148.87                    | 115.36                  |
| 26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods .....   | 147.55                    | 115.36                  |
| 26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods .....   | 153.29                    | 115.36                  |
| 26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods .....   | 176.49                    | 115.36                  |
| <b>26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)</b>  |                           |                         |
| 26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....   | 383.80                    | 115.36                  |
| 26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....  | 474.33                    | 115.36                  |
| 26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....  | 719.70                    | 115.36                  |
| <b>26 05 26 00-0105 Ground Access Wells (26 05 26 00-0093)</b>   |                           |                         |
| <b>26 05 26 00-0106 Precast Ground Access Wells (26 05 26 00-0105)</b>   |                           |                         |
| 26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well .....<br>Note: With cast iron grate.   | 282.72                    |                         |
| 26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well .....<br>Note: With cast iron grate.  | 292.91                    |                         |
| 26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well .....<br>Note: With cast iron grate.  | 857.48                    |                         |
| 26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well .....<br>Note: With cast iron grate.  | 867.66                    |                         |
| <b>26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0105)</b>   |                           |                         |
| 26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well .....<br>Note: Schedule 40 with cast iron grated cover.                             | 559.52                    |                         |
| 26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well .....<br>Note: Schedule 40 with cast iron grated cover.                             | 681.83                    |                         |
| 26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well .....<br>Note: Schedule 40 with cast iron grated cover.                             | 1,502.18                  |                         |
| 26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well .....<br>Note: Schedule 40 with flat steel cover.                                   | 423.79                    |                         |
| 26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well .....<br>Note: Schedule 40 with flat steel cover.                                   | 513.03                    |                         |
| 26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well .....<br>Note: Schedule 40 with flat steel cover.                                   | 1,343.64                  |                         |
| 26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well.....<br>Note: Schedule 40 with flat steel cover.  | 243.04                    |                         |
| 26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well .....<br>Note: Schedule 40 with flat steel cover.  | 334.83                    |                         |
| 26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well .....<br>Note: Schedule 40 with flat steel cover.  | 398.97                    |                         |
| 26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover .....  | 197.42                    |                         |
| 26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover .....   | 308.59                    |                         |
| 26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well.....<br>Note: Schedule 40 with flat steel cover.  | 462.49                    |                         |
| 26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well.....<br>Note: Schedule 40 with flat steel cover.                                       | 638.68                    |                         |
| 26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well.....<br>Note: Schedule 40 with plastic cover.   | 443.10                    |                         |
| 26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well.....<br>Note: Schedule 40 with plastic cover.  | 476.71                    |                         |
| 26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well .....<br>Note: With cast iron cover, heavy duty.                                   | 856.08                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well .....<br>Note: With cast iron cover, heavy duty. | 1,081.22                  |                         |
| 26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well .....<br>Note: With cast iron cover, heavy duty. | 475.12                    |                         |
| 26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well .....<br>Note: With cast iron cover, heavy duty. | 648.76                    |                         |
| 26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well .....<br>Note: With cast iron cover, heavy duty. | 641.03                    |                         |
| <b>26 05 26 00-0132 Polymer Concrete Ground Access Well</b> (26 05 26 00-0105)   |                           |                         |
| 26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well .....  | 540.40                    |                         |
| 26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well .....   | 593.10                    |                         |
| 26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well .....  | 595.65                    |                         |
| 26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well .....   | 653.64                    |                         |
| 26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well .....  | 653.02                    |                         |
| 26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well .....   | 716.80                    |                         |
| 26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well .....  | 872.24                    |                         |
| 26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well .....   | 959.26                    |                         |
| <b>26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well</b> (26 05 26 00-0105)   |                           |                         |
| 26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well .....<br>Note: With cover.                            | 195.50                    |                         |
| 26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well .....<br>Note: With cover.                           | 272.87                    |                         |
| <b>26 05 26 00-0144 Clay Tile Ground Access Wells</b> (26 05 26 00-0105)   |                           |                         |
| 26 05 26 00-0145 EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover .....  | 309.22                    |                         |
| 26 05 26 00-0146 EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover .....  | 325.38                    |                         |
| 26 05 26 00-0147 EA Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well .....   | 99.28                     |                         |
| <b>26 05 26 00-0148 Ground Rod Clamps And Fittings</b> (26 05 26)  |                           |                         |
| <b>26 05 26 00-0149 Bronze Ground Rod Clamp</b> (26 05 26 00-0148)   |                           |                         |
| 26 05 26 00-0150 EA 1/2" Bronze Ground Rod Clamp .....   | 29.58                     | 17.38                   |
| 26 05 26 00-0151 EA 5/8" Bronze Ground Rod Clamp .....   | 30.74                     | 17.38                   |
| 26 05 26 00-0152 EA 3/4" Bronze Ground Rod Clamp .....   | 32.38                     | 17.38                   |
| <b>26 05 26 00-0153 Bronze Pipe Clamps</b> (26 05 26 00-0148)  |                           |                         |
| 26 05 26 00-0154 EA 1/2" To 1" Bronze Pipe Ground Clamps.....  | 41.50                     | 28.92                   |
| 26 05 26 00-0155 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe .....   | 52.89                     | 34.61                   |
| 26 05 26 00-0156 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe .....   | 79.16                     | 40.45                   |
| 26 05 26 00-0157 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe .....   | 96.72                     | 51.99                   |
| 26 05 26 00-0158 EA 4" To 6" Bronze Ground Clamps For Pipe .....   | 148.23                    | 75.06                   |
| <b>26 05 26 00-0159 Grounding Fittings</b> (26 05 26 00-0148)  |                           |                         |
| <b>26 05 26 00-0160 Embedded Fittings</b> (26 05 26 00-0159)   |                           |                         |
| 26 05 26 00-0161 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded .....  | 198.90                    |                         |
| 26 05 26 00-0162 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded .....   | 209.40                    |                         |
| 26 05 26 00-0163 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded .....  | 228.03                    |                         |
| 26 05 26 00-0164 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....  | 201.41                    |                         |
| 26 05 26 00-0165 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....   | 241.38                    |                         |
| 26 05 26 00-0166 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....   | 282.88                    |                         |
| 26 05 26 00-0167 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....   | 318.20                    |                         |
| <b>26 05 26 00-0168 Ground Rod Receptacle</b> (26 05 26 00-0159)   |                           |                         |
| 26 05 26 00-0169 EA 1/2" Ground Rod Receptacle .....   | 427.08                    | 159.98                  |
| 26 05 26 00-0170 EA 5/8" Ground Rod Receptacle .....   | 445.27                    | 164.48                  |
| 26 05 26 00-0171 EA 3/4" Ground Rod Receptacle .....   | 463.93                    | 168.95                  |
| <b>26 05 26 00-0172 Ground Kits For Circuit Breaker Panels</b> (26 05 26 00-0159)  |                           |                         |
| 26 05 26 00-0173 EA 14-8 AWG Copper Ground Kit .....   | 96.70                     | 38.46                   |
| 26 05 26 00-0174 EA 12-8 AWG Aluminum Ground Kit .....   | 102.11                    | 38.46                   |
| 26 05 26 00-0175 EA 14-4 AWG Copper Ground Kit .....   | 105.52                    | 38.46                   |
| 26 05 26 00-0176 EA 12-4 AWG Aluminum Ground Kit .....   | 119.74                    | 38.46                   |
| <b>26 05 26 00-0177 Insulated Grounding Bars</b> (26 05 26 00-0148)  |                           |                         |
| 26 05 26 00-0178 EA 1/2" x 4" x 10" Insulated Ground Bar .....   | 386.08                    | 38.61                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 69.22                     |                         |
| 26 05 26 00-0179 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20" .....   | 403.14                    | 38.61                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 69.22                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 26 00-0180 <b>Ground Conductor Bonding</b> <small>(26 05 26)</small>  |                           |                         |
| 26 05 26 00-0181 <b>Ground Conductor Bonding</b> <small>(26 05 26 00-0180)</small>  |                           |                         |
| 26 05 26 00-0182 <b>Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld</b> <small>(26 05 26 00-0181)</small>          |                           |                         |
| 26 05 26 00-0183    EA    Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....         | 173.55                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0184    EA    #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....         | 188.94                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0185    EA    1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....       | 204.32                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0186    EA    250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel..... | 296.60                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0187 <b>Tee, Wye Or Cross Cadweld</b> <small>(26 05 26 00-0181)</small>   |                           |                         |
| 26 05 26 00-0188    EA    Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross .....   | 196.63                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0189    EA    #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross .....   | 227.38                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0190    EA    1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross .....                                       | 281.23                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0191    EA    250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....                                  | 342.75                    |                         |
| <small>Note: Includes molds, materials and all necessary tools to make connections.</small>                                   |                           |                         |
| 26 05 26 00-0192 <b>Grounding Equipment</b> <small>(26 05 26)</small>   |                           |                         |
| 26 05 26 00-0193 <b>Special Grounding Equipment</b> <small>(26 05 26 00-0192)</small>   |                           |                         |
| 26 05 26 00-0194 <b>Ground Reels And Ground Bus</b> <small>(26 05 26 00-0193)</small>   |                           |                         |
| 26 05 26 00-0195    EA    Ground Reel With 50' Of Galvanized Steel Cable .....  | 839.57                    |                         |
| 26 05 26 00-0196 <b>Copper Bars</b> <small>(26 05 26 00-0193)</small>   |                           |                         |
| 26 05 26 00-0197    LF    1/4" x 2" Copper Bar.....   | 49.58                     |                         |
| 26 05 26 00-0198 <b>Phenolic Insulators</b> <small>(26 05 26 00-0193)</small>   |                           |                         |
| 26 05 26 00-0199    EA    2" x 2" x 1" Long Phenolic Insulators .....   | 38.67                     |                         |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 9.23                    |
| 26 05 26 00-0200 <b>Grounding Studs</b> <small>(26 05 26 00-0193)</small>   |                           |                         |
| 26 05 26 00-0201    EA    Ball Grounding Stud.....  | 56.27                     |                         |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 13.78                   |
| 26 05 26 00-0202 <b>Equipment Ground Bar Kits</b> <small>(26 05 26 00-0193)</small>   |                           |                         |
| 26 05 26 00-0203    EA    Switch Rating 30 Ground Bar Kit .....   | 42.63                     |                         |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 9.23                    |
| 26 05 26 00-0204    EA    Switch Rating 60 Ground Bar Kit .....   | 53.38                     |                         |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 10.15                   |
| 26 05 26 00-0205    EA    Switch Rating 100 Ground Bar Kit.....   | 62.02                     |                         |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 11.54                   |
| 26 05 26 00-0206    EA    Switch Rating 200 Ground Bar Kit.....   | 103.49                    |                         |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 13.85                   |
| 26 05 26 00-0207 <b>Panelboard Ground Bar Kits</b> <small>(26 05 26 00-0193)</small>  |                           |                         |
| 26 05 26 00-0208    EA    Panelboard Ground Bar Kit.....  | 144.38                    | 11.54                   |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 11.54                   |
| 26 05 26 00-0209 <b>Circuit Breaker Ground Bar Kits</b> <small>(26 05 26 00-0193)</small>                                     |                           |                         |
| 26 05 26 00-0210    EA    3 Circuit, Ground Bar Kit.....  | 34.94                     | 6.92                    |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 6.92                    |
| 26 05 26 00-0211    EA    4 Circuit, Ground Bar Kit.....  | 34.39                     | 6.92                    |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 6.92                    |
| 26 05 26 00-0212    EA    7 Circuit, Ground Bar Kit.....  | 35.31                     | 6.92                    |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 6.92                    |
| 26 05 26 00-0213    EA    12 Circuit, Ground Bar Kit.....   | 40.03                     | 7.84                    |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 7.85                    |
| 26 05 26 00-0214    EA    20 Circuit, Ground Bar Kit.....   | 45.48                     | 8.77                    |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 8.77                    |
| 26 05 26 00-0215    EA    24 Circuit, Ground Bar Kit.....   | 50.21                     | 9.69                    |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 9.69                    |
| 26 05 26 00-0216    EA    30 Circuit, Ground Bar Kit.....   | 56.27                     | 11.08                   |
| <small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>                         |                           | 11.07                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 26 00-0217 EA 54 Circuit, Ground Bar Kit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 65.17<br>12.92            | 12.92                   |
| 26 05 26 00-0218 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 68.65<br>9.69             | 9.69                    |
| 26 05 26 00-0219 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 76.17<br>11.07            | 11.08                   |
| 26 05 26 00-0220 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 85.26<br>12.92            | 12.92                   |

**26 05 29 Hangers and Supports for Electrical Systems (26 05)**

|                     |   |        |      |
|---------------------|---|--------|------|
| 26 05 29 00-0001    | Metal Framing Channel And Fittings (26 05 29)<br>See CSI section 05 43 00 00-0001 for additional unistrut fittings. |        |      |
| 26 05 29 00-0002    | Metal Framing Channel (26 05 29 00-0001)<br>Note: Excludes fasteners and accessories.                               |        |      |
| 26 05 29 00-0003    | 14 Gauge Metal Framing Channels (26 05 29 00-0002)  |        |      |
| 26 05 29 00-0004    | 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)   |        |      |
| 26 05 29 00-0005 EA | Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....                                 | 27.29  | 8.44 |
| 26 05 29 00-0006 EA | >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....                                | 30.68  | 8.44 |
| 26 05 29 00-0007 LF | >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....                                       | 13.95  | 3.17 |
| 26 05 29 00-0008    | 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)   |        |      |
| 26 05 29 00-0009 EA | Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....                   | 50.02  | 8.44 |
| 26 05 29 00-0010 EA | Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....                   | 55.59  | 8.44 |
| 26 05 29 00-0011 EA | >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....                   | 76.13  | 8.44 |
| 26 05 29 00-0012 EA | >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....                   | 87.27  | 8.44 |
| 26 05 29 00-0013 LF | >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....                         | 36.68  | 3.18 |
| 26 05 29 00-0014 LF | >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....                        | 42.25  | 3.18 |
| 26 05 29 00-0015    | 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)   |        |      |
| 26 05 29 00-0016 EA | Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel .....                   | 74.06  | 8.44 |
| 26 05 29 00-0017 EA | >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....                   | 124.23 | 8.44 |
| 26 05 29 00-0018 LF | >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....                         | 60.72  | 3.18 |
| 26 05 29 00-0019    | 12 Gauge Metal Framing Channels (26 05 29 00-0002)  |        |      |
| 26 05 29 00-0020    | 12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)   |        |      |
| 26 05 29 00-0021 EA | Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....                                 | 29.15  | 8.44 |
| 26 05 29 00-0022 EA | Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....                                 | 28.52  | 8.44 |
| 26 05 29 00-0023 EA | Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....                                 | 28.11  | 8.44 |
| 26 05 29 00-0024 EA | >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....                                | 34.39  | 8.44 |
| 26 05 29 00-0025 EA | >1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....                                | 33.14  | 8.44 |
| 26 05 29 00-0026 EA | >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....                                 | 32.32  | 8.44 |
| 26 05 29 00-0027 LF | >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....                                       | 15.81  | 3.17 |
| 26 05 29 00-0028 LF | >2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....                                       | 15.18  | 3.17 |
| 26 05 29 00-0029 LF | >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....                                       | 14.77  | 3.17 |
| 26 05 29 00-0030    | 12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)   |        |      |
| 26 05 29 00-0031 EA | Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....                   | 57.43  | 8.44 |
| 26 05 29 00-0032 EA | Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....                   | 67.04  | 8.44 |
| 26 05 29 00-0033 EA | >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....                   | 90.96  | 8.44 |
| 26 05 29 00-0034 EA | >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....                   | 110.17 | 8.44 |
| 26 05 29 00-0035 LF | >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....                         | 44.09  | 3.17 |
| 26 05 29 00-0036 LF | >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....                        | 53.70  | 3.17 |
| 26 05 29 00-0037    | Metal Framing Channel Fittings (26 05 29 00-0001)   |        |      |
| 26 05 29 00-0038    | Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)   |        |      |
| 26 05 29 00-0039    | Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)   |        |      |
| 26 05 29 00-0040 LF | Steel Raceway Closure Strip, Unistrut Channel Fittings .....  | 7.88   | 0.77 |
| 26 05 29 00-0041 EA | Steel End Cap, Unistrut Channel Fittings.....   | 17.91  | 7.70 |
| 26 05 29 00-0042    | Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)   |        |      |
| 26 05 29 00-0043 EA | Stainless Steel End Cap For Unistrut Channel .....  | 29.79  | 7.70 |
| 26 05 29 00-0044    | Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)   |        |      |
| 26 05 29 00-0045    | Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)   |        |      |
| 26 05 29 00-0046 EA | 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....                             | 7.93   |      |
| 26 05 29 00-0047 EA | 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....                             | 7.89   |      |



|                         | MINOR<br>CSI UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------|---|---------------------------|-------------------------|
|                         | 26 05 29 00-0048 | EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....                                | 9.52                      |                         |
| <b>26 05 29 00-0049</b> |                  | <b>Stainless Steel Flat Splice Plate, Unistrut Channel Fittings</b> <small>(26 05 29 00-0044)</small>                     |                           |                         |
|                         | 26 05 29 00-0050 | EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....                 | 26.43                     |                         |
|                         | 26 05 29 00-0051 | EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....                 | 39.50                     |                         |
|                         | 26 05 29 00-0052 | EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....                 | 50.56                     |                         |
| <b>26 05 29 00-0053</b> |                  | <b>90 Degree Angle, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>                                       |                           |                         |
| <b>26 05 29 00-0054</b> |                  | <b>Steel 90 Degree Angle, Unistrut Channel Fittings</b> <small>(26 05 29 00-0053)</small>                                 |                           |                         |
|                         | 26 05 29 00-0055 | EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting .....  | 7.69                      |                         |
|                         | 26 05 29 00-0056 | EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting .....  | 6.49                      |                         |
|                         | 26 05 29 00-0057 | EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting .....  | 10.97                     |                         |
|                         | 26 05 29 00-0058 | EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting .....  | 10.82                     |                         |
| <b>26 05 29 00-0059</b> |                  | <b>Stainless Steel 90 Degree Angle, Unistrut Channel Fittings</b> <small>(26 05 29 00-0053)</small>                       |                           |                         |
|                         | 26 05 29 00-0060 | EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....                              | 14.98                     |                         |
|                         | 26 05 29 00-0061 | EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....                              | 18.82                     |                         |
|                         | 26 05 29 00-0062 | EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....                          | 15.91                     |                         |
|                         | 26 05 29 00-0063 | EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....                          | 22.74                     |                         |
|                         | 26 05 29 00-0064 | EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....                          | 20.75                     |                         |
|                         | 26 05 29 00-0065 | EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....                          | 38.59                     |                         |
|                         | 26 05 29 00-0066 | EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....                          | 21.84                     |                         |
|                         | 26 05 29 00-0067 | EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....                          | 31.83                     |                         |
| <b>26 05 29 00-0068</b> |                  | <b>60 Degree Angle, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>                                       |                           |                         |
| <b>26 05 29 00-0069</b> |                  | <b>Steel 60 Degree Angle, Unistrut Channel Fittings</b> <small>(26 05 29 00-0068)</small>                                 |                           |                         |
|                         | 26 05 29 00-0070 | EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting .....  | 15.55                     |                         |
| <b>26 05 29 00-0071</b> |                  | <b>U-Connector, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>   |                           |                         |
| <b>26 05 29 00-0072</b> |                  | <b>Steel, U-Connector, Unistrut Channel Fittings</b> <small>(26 05 29 00-0071)</small>                                    |                           |                         |
|                         | 26 05 29 00-0073 | EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting .....  | 5.71                      |                         |
|                         | 26 05 29 00-0074 | EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting .....  | 6.33                      |                         |
| <b>26 05 29 00-0075</b> |                  | <b>Stainless Steel, U-Connector, Unistrut Channel Fittings</b> <small>(26 05 29 00-0071)</small>                          |                           |                         |
|                         | 26 05 29 00-0076 | EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting .....                              | 31.60                     |                         |
| <b>26 05 29 00-0077</b> |                  | <b>Z-Bracket, Unistrut Channel Fittings</b> <small>(26 05 29 00-0037)</small>   |                           |                         |
| <b>26 05 29 00-0078</b> |                  | <b>Steel Z-Bracket, Unistrut Channel Fittings</b> <small>(26 05 29 00-0077)</small>                                       |                           |                         |
|                         | 26 05 29 00-0079 | EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting .....   | 15.95                     |                         |
| <b>26 05 29 00-0080</b> |                  | <b>Stainless Steel Z-Bracket, Unistrut Channel Fittings</b> <small>(26 05 29 00-0077)</small>                             |                           |                         |
|                         | 26 05 29 00-0081 | EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting .....   | 61.80                     |                         |
| <b>26 05 29 00-0082</b> |                  | <b>Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0037)</small>                      |                           |                         |
|                         |                  | Note: Includes hex screw and nut.   |                           |                         |
| <b>26 05 29 00-0083</b> |                  | <b>Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0082)</small>               |                           |                         |
|                         |                  | Note: Includes hex screw and nut.   |                           |                         |
|                         | 26 05 29 00-0084 | EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                                 | 6.38                      | 2.31                    |
|                         | 26 05 29 00-0085 | EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                                 | 6.41                      | 2.31                    |
|                         | 26 05 29 00-0086 | EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                                   | 6.55                      | 2.31                    |
|                         | 26 05 29 00-0087 | EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                               | 8.28                      | 3.08                    |
|                         | 26 05 29 00-0088 | EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                               | 9.00                      | 3.08                    |
|                         | 26 05 29 00-0089 | EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                                   | 9.07                      | 3.08                    |
|                         | 26 05 29 00-0090 | EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                               | 11.13                     | 3.85                    |
|                         | 26 05 29 00-0091 | EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                                   | 11.76                     | 3.85                    |
|                         | 26 05 29 00-0092 | EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                               | 12.37                     | 3.85                    |
|                         | 26 05 29 00-0093 | EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                                   | 12.59                     | 3.85                    |
| <b>26 05 29 00-0094</b> |                  | <b>304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0082)</small> |                           |                         |
|                         |                  | Note: Includes hex screw and nut.   |                           |                         |
|                         | 26 05 29 00-0095 | EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                   | 11.63                     | 2.31                    |
|                         | 26 05 29 00-0096 | EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                   | 13.09                     | 2.31                    |
|                         | 26 05 29 00-0097 | EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                     | 14.54                     | 2.31                    |
|                         | 26 05 29 00-0098 | EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel .....                 | 18.00                     | 3.08                    |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0099 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 22.05                     | 3.08                    |
| 26 05 29 00-0100 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 23.11                     | 3.08                    |
| 26 05 29 00-0101 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 27.69                     | 3.85                    |
| 26 05 29 00-0102 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 31.29                     | 3.85                    |
| 26 05 29 00-0103 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 32.84                     | 3.85                    |
| 26 05 29 00-0104 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 38.55                     | 3.85                    |
| <b>26 05 29 00-0105 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b><br><small>(26 05 29 00-0082)</small><br>Note: Includes hex screw and nut. |                           |                         |
| 26 05 29 00-0106 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 12.52                     | 2.31                    |
| 26 05 29 00-0107 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 14.58                     | 2.31                    |
| 26 05 29 00-0108 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 15.16                     | 2.31                    |
| 26 05 29 00-0109 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 18.28                     | 3.08                    |
| 26 05 29 00-0110 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 25.37                     | 3.08                    |
| 26 05 29 00-0111 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 25.72                     | 3.08                    |
| 26 05 29 00-0112 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 30.42                     | 3.85                    |
| 26 05 29 00-0113 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 32.25                     | 3.85                    |
| 26 05 29 00-0114 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 45.30                     | 3.85                    |
| 26 05 29 00-0115 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....  | 53.27                     | 3.85                    |
| <b>26 05 29 00-0116 Beam Clamps, Unistrut Channel Fittings</b><br><small>(26 05 29 00-0037)</small>  |                           |                         |
| <b>26 05 29 00-0117 Steel Beam Clamps, Unistrut Channel Fittings</b><br><small>(26 05 29 00-0116)</small>  |                           |                         |
| 26 05 29 00-0118 EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting .....   | 46.62                     | 14.06                   |
| 26 05 29 00-0119 EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings .....  | 32.38                     | 14.06                   |
| 26 05 29 00-0120 EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting .....  | 45.18                     | 14.06                   |
| <b>26 05 29 00-0121 304 Stainless Steel Beam Clamps, Unistrut Channel Fittings</b><br><small>(26 05 29 00-0116)</small>  |                           |                         |
| 26 05 29 00-0122 EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting .....  | 71.25                     | 14.06                   |
| <b>26 05 29 00-0123 Square Washers For Unistrut Channel</b><br><small>(26 05 29 00-0037)</small>   |                           |                         |
| <b>26 05 29 00-0124 Steel Square Washers For Unistrut Channel</b><br><small>(26 05 29 00-0123)</small>   |                           |                         |
| 26 05 29 00-0125 EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel .....  | 5.64                      |                         |
| <b>26 05 29 00-0126 Stainless Steel Square Washers For Unistrut Channel</b><br><small>(26 05 29 00-0123)</small>   |                           |                         |
| 26 05 29 00-0127 EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel .....  | 7.32                      |                         |
| 26 05 29 00-0128 EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel .....  | 9.30                      |                         |
| <b>26 05 29 00-0129 Strut Braces, Unistrut Channel Fittings</b><br><small>(26 05 29 00-0037)</small>   |                           |                         |
| 26 05 29 00-0130 EA 16" Diagonal Steel Bar Brace For Unistrut Channel .....  | 43.23                     |                         |
| <b>26 05 29 00-0131 Trolley Hangers, Unistrut Channel Fittings</b><br><small>(26 05 29 00-0037)</small>  |                           |                         |
| 26 05 29 00-0132 EA Steel Trolley Track Hanger For Unistrut Channel .....  | 53.84                     |                         |
| <b>26 05 29 00-0133 Lock Nuts With Spring For Unistrut Channel</b><br><small>(26 05 29 00-0037)</small><br>Note: Includes hex bolt.  |                           |                         |
| <b>26 05 29 00-0134 Steel Lock Nuts With Spring For Unistrut Channel</b><br><small>(26 05 29 00-0133)</small><br>Note: Includes hex bolt.  |                           |                         |
| 26 05 29 00-0135 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....   | 10.15                     |                         |
| 26 05 29 00-0136 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....   | 11.02                     |                         |
| 26 05 29 00-0137 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....   | 11.68                     |                         |
| 26 05 29 00-0138 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....   | 15.20                     |                         |
| <b>26 05 29 00-0139 Stainless Steel Lock Nuts With Spring For Unistrut Channel</b><br><small>(26 05 29 00-0133)</small><br>Note: Includes hex bolt.                                |                           |                         |
| 26 05 29 00-0140 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....  | 19.57                     |                         |
| 26 05 29 00-0141 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....  | 20.92                     |                         |
| 26 05 29 00-0142 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....  | 30.25                     |                         |
| 26 05 29 00-0143 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....  | 52.83                     |                         |
| <b>26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel</b><br><small>(26 05 29 00-0037)</small><br>Note: Includes hex bolt.   |                           |                         |
| <b>26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel</b><br><small>(26 05 29 00-0144)</small><br>Note: Includes hex bolt.                                       |                           |                         |
| 26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel .....   | 10.18                     |                         |
| 26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel .....   | 11.14                     |                         |
| 26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel .....   | 11.73                     |                         |



|                         | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|------------------|-----|-----|--|------------------------|----------------------|
|                         | 26 05 29 00-0149 | EA  |     | 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....  | 16.21                  |                      |
| <b>26 05 29 00-0150</b> |                  |     |     | <b>Stainless Steel Lock Nuts Without Spring For Unistrut Channel</b> <small>(26 05 29 00-0144)</small> |                        |                      |
|                         |                  |     |     | Note: Includes hex bolt.   |                        |                      |
|                         | 26 05 29 00-0151 | EA  |     | 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....                         | 13.59                  |                      |
|                         | 26 05 29 00-0152 | EA  |     | 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....                         | 16.70                  |                      |
|                         | 26 05 29 00-0153 | EA  |     | 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....                         | 18.34                  |                      |
|                         | 26 05 29 00-0154 | EA  |     | 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....                         | 51.42                  |                      |
| <b>26 05 29 00-0155</b> |                  |     |     | <b>Mounting Assemblies</b> <small>(26 05 29)</small>   |                        |                      |
| <b>26 05 29 00-0156</b> |                  |     |     | <b>Galvanized Steel Mounting Assemblies</b> <small>(26 05 29 00-0155)</small>                          |                        |                      |
| <b>26 05 29 00-0157</b> |                  |     |     | <b>Galvanized Steel Back Plate</b> <small>(26 05 29 00-0156)</small>                                   |                        |                      |
|                         | 26 05 29 00-0158 | EA  |     | 1/4" x 4' x 4', Galvanized Steel Back Plate, Painted .....   | 595.37                 | 92.29                |
|                         | 26 05 29 00-0159 | EA  |     | 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted .....   | 148.59                 | 30.76                |
|                         | 26 05 29 00-0160 | EA  |     | 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted .....  | 375.99                 | 76.91                |
| <b>26 05 29 00-0161</b> |                  |     |     | <b>Aluminum Mounting Assemblies</b> <small>(26 05 29 00-0155)</small>                                  |                        |                      |
| <b>26 05 29 00-0162</b> |                  |     |     | <b>Aluminum Back Plate</b> <small>(26 05 29 00-0161)</small>   |                        |                      |
|                         | 26 05 29 00-0163 | EA  |     | 3/16" x 2' x 2' Aluminum Back Plate.....   | 488.60                 | 115.36               |
|                         | 26 05 29 00-0164 | EA  |     | 3/16" x 4' x 4' Aluminum Back Plate.....   | 1,337.64               | 115.36               |
| <b>26 05 29 00-0165</b> |                  |     |     | <b>Supports</b> <small>(26 05 29)</small>  |                        |                      |
| <b>26 05 29 00-0166</b> |                  |     |     | <b>One Hole Steel Conduit Straps</b> <small>(26 05 29 00-0165)</small>                                 |                        |                      |
|                         | 26 05 29 00-0167 | EA  |     | 1/2", One Hole Steel Conduit Strap .....   | 5.44                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.26                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.52                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.02                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.53                  |                      |
|                         | 26 05 29 00-0168 | EA  |     | 3/4", One Hole Steel Conduit Strap .....   | 5.49                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.26                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.52                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.03                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.53                  |                      |
|                         | 26 05 29 00-0169 | EA  |     | 1", One Hole Steel Conduit Strap .....   | 5.74                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.27                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.53                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.05                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.56                  |                      |
|                         | 26 05 29 00-0170 | EA  |     | 1-1/4", One Hole Steel Conduit Strap .....   | 5.92                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.27                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.54                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.06                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.58                  |                      |
|                         | 26 05 29 00-0171 | EA  |     | 1-1/2", One Hole Steel Conduit Strap .....   | 6.04                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.27                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.55                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.07                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.59                  |                      |
|                         | 26 05 29 00-0172 | EA  |     | 2", One Hole Steel Conduit Strap .....   | 6.78                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.29                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.59                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.12                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.66                  |                      |
|                         | 26 05 29 00-0173 | EA  |     | 2-1/2", One Hole Steel Conduit Strap .....   | 7.54                   |                      |
|                         |                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 1.48                   |                      |
|                         |                  |     |     | <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>                              | 1.33                   |                      |
|                         |                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -0.31                  |                      |
|                         |                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -0.62                  |                      |
|                         |                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -1.18                  |                      |
|                         |                  |     |     | <i>For &gt;500, Deduct</i>   | -1.74                  |                      |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 29 00-0174 EA 3", One Hole Steel Conduit Strap .....              | 7.79                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.32                     |                         |
| For >100 To 250, Deduct   | -0.64                     |                         |
| For >250 To 500, Deduct   | -1.20                     |                         |
| For >500, Deduct  | -1.76                     |                         |
| 26 05 29 00-0175 EA 3-1/2", One Hole Steel Conduit Strap .....          | 9.03                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.35                     |                         |
| For >100 To 250, Deduct   | -0.70                     |                         |
| For >250 To 500, Deduct   | -1.29                     |                         |
| For >500, Deduct  | -1.89                     |                         |
| 26 05 29 00-0176 EA 4", One Hole Steel Conduit Strap .....              | 10.03                     |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.37                     |                         |
| For >100 To 250, Deduct   | -0.75                     |                         |
| For >250 To 500, Deduct   | -1.37                     |                         |
| For >500, Deduct  | -1.99                     |                         |
| <b>26 05 29 00-0177 One Hole Iron Conduit Straps (26 05 29 00-0165)</b> |                           |                         |
| 26 05 29 00-0178 EA 1/2", One Hole Iron Conduit Strap .....             | 5.56                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.26                     |                         |
| For >100 To 250, Deduct   | -0.52                     |                         |
| For >250 To 500, Deduct   | -1.03                     |                         |
| For >500, Deduct  | -1.54                     |                         |
| 26 05 29 00-0179 EA 3/4", One Hole Iron Conduit Strap .....             | 5.68                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.27                     |                         |
| For >100 To 250, Deduct   | -0.53                     |                         |
| For >250 To 500, Deduct   | -1.04                     |                         |
| For >500, Deduct  | -1.55                     |                         |
| 26 05 29 00-0180 EA 1", One Hole Iron Conduit Strap .....               | 5.90                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.27                     |                         |
| For >100 To 250, Deduct   | -0.54                     |                         |
| For >250 To 500, Deduct   | -1.06                     |                         |
| For >500, Deduct  | -1.57                     |                         |
| 26 05 29 00-0181 EA 1-1/4", One Hole Iron Conduit Strap .....           | 6.41                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.28                     |                         |
| For >100 To 250, Deduct   | -0.57                     |                         |
| For >250 To 500, Deduct   | -1.10                     |                         |
| For >500, Deduct  | -1.63                     |                         |
| 26 05 29 00-0182 EA 1-1/2", One Hole Iron Conduit Strap .....           | 6.62                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.29                     |                         |
| For >100 To 250, Deduct   | -0.58                     |                         |
| For >250 To 500, Deduct   | -1.11                     |                         |
| For >500, Deduct  | -1.65                     |                         |
| 26 05 29 00-0183 EA 2", One Hole Iron Conduit Strap .....               | 7.93                      |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.32                     |                         |
| For >100 To 250, Deduct   | -0.64                     |                         |
| For >250 To 500, Deduct   | -1.21                     |                         |
| For >500, Deduct  | -1.78                     |                         |
| 26 05 29 00-0184 EA 2-1/2", One Hole Iron Conduit Strap .....           | 10.75                     |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.39                     |                         |
| For >100 To 250, Deduct   | -0.78                     |                         |
| For >250 To 500, Deduct   | -1.42                     |                         |
| For >500, Deduct  | -2.06                     |                         |
| 26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap .....               | 13.10                     |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.45                     |                         |
| For >100 To 250, Deduct   | -0.90                     |                         |
| For >250 To 500, Deduct   | -1.60                     |                         |
| For >500, Deduct  | -2.29                     |                         |
| 26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap .....           | 16.53                     |                         |
| For Work In Restricted Working Space, Add                               | 1.48                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add      | 1.33                      |                         |
| For >50 To 100, Deduct  | -0.54                     |                         |
| For >100 To 250, Deduct   | -1.07                     |                         |
| For >250 To 500, Deduct   | -1.85                     |                         |
| For >500, Deduct  | -2.64                     |                         |



| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap .....                | 30.27        |            |
| For Work In Restricted Working Space, Add                                | 1.48         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.33         |            |
| For >50 To 100, Deduct   | -0.88        |            |
| For >100 To 250, Deduct  | -1.76        |            |
| For >250 To 500, Deduct  | -2.89        |            |
| For >500, Deduct   | -4.01        |            |
| 26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap .....                | 37.66        |            |
| For Work In Restricted Working Space, Add                                | 1.48         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.33         |            |
| For >50 To 100, Deduct   | -1.06        |            |
| For >100 To 250, Deduct  | -2.13        |            |
| For >250 To 500, Deduct  | -3.44        |            |
| For >500, Deduct   | -4.75        |            |
| <b>26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)</b> |              |            |
| 26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap .....             | 6.30         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.30        |            |
| For >100 To 250, Deduct  | -0.59        |            |
| For >250 To 500, Deduct  | -1.17        |            |
| For >500, Deduct   | -1.74        |            |
| 26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap .....             | 6.38         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.30        |            |
| For >100 To 250, Deduct  | -0.60        |            |
| For >250 To 500, Deduct  | -1.17        |            |
| For >500, Deduct   | -1.75        |            |
| 26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap .....               | 6.42         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.30        |            |
| For >100 To 250, Deduct  | -0.60        |            |
| For >250 To 500, Deduct  | -1.17        |            |
| For >500, Deduct   | -1.75        |            |
| 26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap .....           | 6.48         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.30        |            |
| For >100 To 250, Deduct  | -0.60        |            |
| For >250 To 500, Deduct  | -1.18        |            |
| For >500, Deduct   | -1.76        |            |
| 26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap .....           | 6.52         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.30        |            |
| For >100 To 250, Deduct  | -0.60        |            |
| For >250 To 500, Deduct  | -1.18        |            |
| For >500, Deduct   | -1.76        |            |
| 26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap .....               | 6.62         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.30        |            |
| For >100 To 250, Deduct  | -0.61        |            |
| For >250 To 500, Deduct  | -1.19        |            |
| For >500, Deduct   | -1.77        |            |
| 26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap .....           | 7.19         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.32        |            |
| For >100 To 250, Deduct  | -0.64        |            |
| For >250 To 500, Deduct  | -1.23        |            |
| For >500, Deduct   | -1.83        |            |
| 26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap .....               | 7.31         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.32        |            |
| For >100 To 250, Deduct  | -0.64        |            |
| For >250 To 500, Deduct  | -1.24        |            |
| For >500, Deduct   | -1.84        |            |
| 26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap .....           | 7.75         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.33        |            |
| For >100 To 250, Deduct  | -0.66        |            |
| For >250 To 500, Deduct  | -1.27        |            |
| For >500, Deduct   | -1.88        |            |
| 26 05 29 00-0199 EA 4", Two Hole Steel Conduit Strap .....               | 8.06         |            |
| For Work In Restricted Working Space, Add                                | 1.66         |            |
| For Installation On Concrete (Includes Drilling And Fastener), Add       | 1.59         |            |
| For >50 To 100, Deduct   | -0.34        |            |
| For >100 To 250, Deduct  | -0.68        |            |
| For >250 To 500, Deduct  | -1.30        |            |
| For >500, Deduct   | -1.91        |            |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION                                       | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0200 EA 5", Two Hole Steel Conduit Strap .....         | 8.46                      |                         |
| For Work In Restricted Working Space, Add                          | 1.66                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.59                      |                         |
| For >50 To 100, Deduct   | -0.35                     |                         |
| For >100 To 250, Deduct  | -0.70                     |                         |
| For >250 To 500, Deduct  | -1.33                     |                         |
| For >500, Deduct   | -1.95                     |                         |
| <b>26 05 29 00-0201 Clamp Back Spacers</b> (26 05 29 00-0165)      |                           |                         |
| 26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer.....           | 4.98                      |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.22                     |                         |
| For >100 To 250, Deduct  | -0.44                     |                         |
| For >250 To 500, Deduct  | -0.85                     |                         |
| For >500, Deduct   | -1.27                     |                         |
| 26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer.....           | 5.36                      |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.23                     |                         |
| For >100 To 250, Deduct  | -0.46                     |                         |
| For >250 To 500, Deduct  | -0.88                     |                         |
| For >500, Deduct   | -1.31                     |                         |
| 26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer.....             | 5.72                      |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.24                     |                         |
| For >100 To 250, Deduct  | -0.48                     |                         |
| For >250 To 500, Deduct  | -0.91                     |                         |
| For >500, Deduct   | -1.34                     |                         |
| 26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer .....        | 7.10                      |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.27                     |                         |
| For >100 To 250, Deduct  | -0.55                     |                         |
| For >250 To 500, Deduct  | -1.01                     |                         |
| For >500, Deduct   | -1.48                     |                         |
| 26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer .....        | 8.22                      |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.30                     |                         |
| For >100 To 250, Deduct  | -0.60                     |                         |
| For >250 To 500, Deduct  | -1.10                     |                         |
| For >500, Deduct   | -1.59                     |                         |
| 26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer.....             | 9.39                      |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.33                     |                         |
| For >100 To 250, Deduct  | -0.66                     |                         |
| For >250 To 500, Deduct  | -1.19                     |                         |
| For >500, Deduct   | -1.71                     |                         |
| 26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer .....        | 14.15                     |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.45                     |                         |
| For >100 To 250, Deduct  | -0.90                     |                         |
| For >250 To 500, Deduct  | -1.54                     |                         |
| For >500, Deduct   | -2.19                     |                         |
| 26 05 29 00-0209 EA 3" Conduit, Clamp Back Spacer.....             | 19.83                     |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.59                     |                         |
| For >100 To 250, Deduct  | -1.18                     |                         |
| For >250 To 500, Deduct  | -1.97                     |                         |
| For >500, Deduct   | -2.75                     |                         |
| 26 05 29 00-0210 EA 3-1/2" Conduit, Clamp Back Spacer .....        | 25.35                     |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -0.73                     |                         |
| For >100 To 250, Deduct  | -1.46                     |                         |
| For >250 To 500, Deduct  | -2.38                     |                         |
| For >500, Deduct   | -3.31                     |                         |
| 26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer.....             | 51.27                     |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -1.38                     |                         |
| For >100 To 250, Deduct  | -2.76                     |                         |
| For >250 To 500, Deduct  | -4.33                     |                         |
| For >500, Deduct   | -5.90                     |                         |
| 26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....             | 95.02                     |                         |
| For Work In Restricted Working Space, Add                          | 1.16                      |                         |
| For Installation On Concrete (Includes Drilling And Fastener), Add | 1.06                      |                         |
| For >50 To 100, Deduct   | -2.47                     |                         |
| For >100 To 250, Deduct  | -4.94                     |                         |
| For >250 To 500, Deduct  | -7.61                     |                         |
| For >500, Deduct   | -10.27                    |                         |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |  |       |  |
|-------------------------|--|-------|--|
| <b>26 05 29 00-0213</b> | <b>Conduit Clips</b> <small>(26 05 29 00-0165)</small>                           |       |  |
|                         | Note: Push in or clip.   |       |  |
| 26 05 29 00-0214        | EA 1/2" Conduit Clip.....  | 6.08  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.33  |  |
|                         | For >50 To 100, Deduct   | -0.28 |  |
|                         | For >100 To 250, Deduct  | -0.55 |  |
|                         | For >250 To 500, Deduct  | -1.07 |  |
|                         | For >500, Deduct   | -1.59 |  |
| 26 05 29 00-0215        | EA 3/4" Conduit Clip.....  | 6.08  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.33  |  |
|                         | For >50 To 100, Deduct   | -0.28 |  |
|                         | For >100 To 250, Deduct  | -0.55 |  |
|                         | For >250 To 500, Deduct  | -1.07 |  |
|                         | For >500, Deduct   | -1.59 |  |
| 26 05 29 00-0216        | EA 1" Conduit Clip.....  | 5.99  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.33  |  |
|                         | For >50 To 100, Deduct   | -0.27 |  |
|                         | For >100 To 250, Deduct  | -0.55 |  |
|                         | For >250 To 500, Deduct  | -1.06 |  |
|                         | For >500, Deduct   | -1.58 |  |
| 26 05 29 00-0217        | EA 1-1/4" Conduit Clip.....  | 6.21  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.33  |  |
|                         | For >50 To 100, Deduct   | -0.28 |  |
|                         | For >100 To 250, Deduct  | -0.56 |  |
|                         | For >250 To 500, Deduct  | -1.08 |  |
|                         | For >500, Deduct   | -1.61 |  |
| <b>26 05 29 00-0218</b> | <b>Bolt And Nut Conduit Clips</b> <small>(26 05 29 00-0165)</small>              |       |  |
| 26 05 29 00-0219        | EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....                           | 7.55  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.64  |  |
|                         | For >50 To 100, Deduct   | -0.34 |  |
|                         | For >100 To 250, Deduct  | -0.69 |  |
|                         | For >250 To 500, Deduct  | -1.34 |  |
|                         | For >500, Deduct   | -1.99 |  |
| 26 05 29 00-0220        | EA 1" Bolt And Nut Conduit Clip (Minerallac 2B).....                             | 7.78  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.64  |  |
|                         | For >50 To 100, Deduct   | -0.35 |  |
|                         | For >100 To 250, Deduct  | -0.70 |  |
|                         | For >250 To 500, Deduct  | -1.35 |  |
|                         | For >500, Deduct   | -2.01 |  |
| 26 05 29 00-0221        | EA 1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....                     | 8.29  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.74  |  |
|                         | For >50 To 100, Deduct   | -0.37 |  |
|                         | For >100 To 250, Deduct  | -0.74 |  |
|                         | For >250 To 500, Deduct  | -1.44 |  |
|                         | For >500, Deduct   | -2.14 |  |
| 26 05 29 00-0222        | EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....                         | 8.42  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.74  |  |
|                         | For >50 To 100, Deduct   | -0.37 |  |
|                         | For >100 To 250, Deduct  | -0.75 |  |
|                         | For >250 To 500, Deduct  | -1.45 |  |
|                         | For >500, Deduct   | -2.15 |  |
| 26 05 29 00-0223        | EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....                             | 9.27  |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.74  |  |
|                         | For >50 To 100, Deduct   | -0.40 |  |
|                         | For >100 To 250, Deduct  | -0.79 |  |
|                         | For >250 To 500, Deduct  | -1.51 |  |
|                         | For >500, Deduct   | -2.24 |  |
| 26 05 29 00-0224        | EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....                         | 10.02 |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.83  |  |
|                         | For >50 To 100, Deduct   | -0.42 |  |
|                         | For >100 To 250, Deduct  | -0.85 |  |
|                         | For >250 To 500, Deduct  | -1.62 |  |
|                         | For >500, Deduct   | -2.39 |  |
| 26 05 29 00-0225        | EA 3" Bolt And Nut Conduit Clip (Minerallac 7B).....                             | 10.77 |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 1.83  |  |
|                         | For >50 To 100, Deduct   | -0.44 |  |
|                         | For >100 To 250, Deduct  | -0.88 |  |
|                         | For >250 To 500, Deduct  | -1.67 |  |
|                         | For >500, Deduct   | -2.46 |  |
| 26 05 29 00-0226        | EA 4" Bolt And Nut Conduit Clip (Minerallac 9B).....                             | 18.69 |  |
|                         | For Installation On Concrete (Includes Drilling And Fastener), Add               | 2.02  |  |
|                         | For >50 To 100, Deduct   | -0.66 |  |
|                         | For >100 To 250, Deduct  | -1.32 |  |
|                         | For >250 To 500, Deduct  | -2.36 |  |
|                         | For >500, Deduct   | -3.41 |  |
| <b>26 05 29 00-0227</b> | <b>Conduit Hanger From Flange, Wire Or Rod</b> <small>(26 05 29 00-0165)</small> |       |  |
|                         | Note: Bat wing.  |       |  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0228 EA 1/2", Conduit Hanger From Flange, Wire Or Rod ..... 4.42<br><i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> 1.03<br><i>For &gt;50 To 100, Deduct</i> -0.20<br><i>For &gt;100 To 250, Deduct</i> -0.41<br><i>For &gt;250 To 500, Deduct</i> -0.79<br><i>For &gt;500, Deduct</i> -1.18   |                           |                         |
| 26 05 29 00-0229 EA 3/4", Conduit Hanger From Flange, Wire Or Rod ..... 4.48<br><i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> 1.03<br><i>For &gt;50 To 100, Deduct</i> -0.20<br><i>For &gt;100 To 250, Deduct</i> -0.41<br><i>For &gt;250 To 500, Deduct</i> -0.80<br><i>For &gt;500, Deduct</i> -1.19   |                           |                         |
| 26 05 29 00-0230 EA 1", Conduit Hanger From Flange, Wire Or Rod ..... 4.65<br><i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> 1.03<br><i>For &gt;50 To 100, Deduct</i> -0.21<br><i>For &gt;100 To 250, Deduct</i> -0.42<br><i>For &gt;250 To 500, Deduct</i> -0.81<br><i>For &gt;500, Deduct</i> -1.21     |                           |                         |
| 26 05 29 00-0231 EA 1-1/4", Conduit Hanger From Flange, Wire Or Rod ..... 5.08<br><i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> 1.03<br><i>For &gt;50 To 100, Deduct</i> -0.22<br><i>For &gt;100 To 250, Deduct</i> -0.44<br><i>For &gt;250 To 500, Deduct</i> -0.84<br><i>For &gt;500, Deduct</i> -1.25 |                           |                         |
| <b>26 05 29 00-0232 Beam Flange Clamps</b> <small>(26 05 29 00-0165)</small>   |                           |                         |
| Note: For threaded rod, nut not required.  |                           |                         |
| 26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24) ..... 6.25<br><i>For &gt;50 To 100, Deduct</i> -0.25<br><i>For &gt;100 To 250, Deduct</i> -0.51<br><i>For &gt;250 To 500, Deduct</i> -0.95<br><i>For &gt;500, Deduct</i> -1.40   |                           |                         |
| 26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58) ..... 6.14<br><i>For &gt;50 To 100, Deduct</i> -0.25<br><i>For &gt;100 To 250, Deduct</i> -0.50<br><i>For &gt;250 To 500, Deduct</i> -0.94<br><i>For &gt;500, Deduct</i> -1.38  |                           |                         |
| 26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912) ..... 6.80<br><i>For &gt;50 To 100, Deduct</i> -0.27<br><i>For &gt;100 To 250, Deduct</i> -0.53<br><i>For &gt;250 To 500, Deduct</i> -0.99<br><i>For &gt;500, Deduct</i> -1.45   |                           |                         |
| <b>26 05 29 00-0236 T-Bar Support Clips</b> <small>(26 05 29 00-0165)</small>  |                           |                         |
| 26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95) ..... 10.60<br><i>For &gt;50 To 100, Deduct</i> -0.46<br><i>For &gt;100 To 250, Deduct</i> -0.91<br><i>For &gt;250 To 500, Deduct</i> -1.76<br><i>For &gt;500, Deduct</i> -2.60  |                           |                         |
| 26 05 29 00-0238 EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS) ..... 10.09<br><i>For &gt;50 To 100, Deduct</i> -0.44<br><i>For &gt;100 To 250, Deduct</i> -0.89<br><i>For &gt;250 To 500, Deduct</i> -1.72<br><i>For &gt;500, Deduct</i> -2.55   |                           |                         |
| 26 05 29 00-0239 EA 15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16) ..... 3.70<br><i>For &gt;50 To 100, Deduct</i> -0.14<br><i>For &gt;100 To 250, Deduct</i> -0.28<br><i>For &gt;250 To 500, Deduct</i> -0.52<br><i>For &gt;500, Deduct</i> -0.75   |                           |                         |
| 26 05 29 00-0240 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512) ..... 28.73<br><i>For &gt;50 To 100, Deduct</i> -0.80<br><i>For &gt;100 To 250, Deduct</i> -1.59<br><i>For &gt;250 To 500, Deduct</i> -2.54<br><i>For &gt;500, Deduct</i> -3.49   |                           |                         |
| <b>26 05 29 00-0241 Switch And Outlet Box Type Supports</b> <small>(26 05 29 00-0165)</small>  |                           |                         |
| 26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS) ..... 7.46<br><i>For &gt;50 To 100, Deduct</i> -0.26<br><i>For &gt;100 To 250, Deduct</i> -0.53<br><i>For &gt;250 To 500, Deduct</i> -0.94<br><i>For &gt;500, Deduct</i> -1.36  |                           |                         |
| 26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500) ..... 6.38<br><i>For &gt;50 To 100, Deduct</i> -0.24<br><i>For &gt;100 To 250, Deduct</i> -0.47<br><i>For &gt;250 To 500, Deduct</i> -0.86<br><i>For &gt;500, Deduct</i> -1.25   |                           |                         |
| 26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO) ..... 7.31<br><i>For &gt;50 To 100, Deduct</i> -0.26<br><i>For &gt;100 To 250, Deduct</i> -0.52<br><i>For &gt;250 To 500, Deduct</i> -0.93<br><i>For &gt;500, Deduct</i> -1.35  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF) .....                              | 4.84                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.40                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -0.75                     |                         |
| <i>For &gt;500, Deduct</i>  | -1.10                     |                         |
| 26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....              | 5.04                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.41                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -0.76                     |                         |
| <i>For &gt;500, Deduct</i>  | -1.12                     |                         |
| <br>  |                           |                         |
| <b>26 05 29 00-0247 Lighting Fixture Hanger</b> <small>(26 05 29 00-0165)</small>                         |                           |                         |
| Note: For existing or owner furnished fixtures.   |                           |                         |
| 26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515).....               | 7.20                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.33                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.67                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.31                     |                         |
| <i>For &gt;500, Deduct</i>  | -1.95                     |                         |
| 26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517).....                  | 23.21                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.73                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.47                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -2.51                     |                         |
| <i>For &gt;500, Deduct</i>  | -3.55                     |                         |
| 26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520).....                | 31.62                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.94                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.89                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -3.14                     |                         |
| <i>For &gt;500, Deduct</i>  | -4.39                     |                         |
| <br>  |                           |                         |
| <b>26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0165)</small> |                           |                         |
| 26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....                   | 6.38                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.55                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -1.56                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.39                      |                         |
| 26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....                   | 6.41                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.55                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.06                     |                         |
| <i>For &gt;500, Deduct</i>  | -1.57                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.39                      |                         |
| 26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                      | 6.55                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.28                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.56                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.07                     |                         |
| <i>For &gt;500, Deduct</i>  | -1.58                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.39                      |                         |
| 26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                  | 8.27                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.36                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.72                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.39                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.06                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.85                      |                         |
| 26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                  | 8.99                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.76                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.44                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.85                      |                         |
| 26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                      | 9.06                      |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.38                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.76                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.45                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.14                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.85                      |                         |
| 26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                  | 11.12                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.47                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.94                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.80                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.65                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 2.31                      |                         |
| 26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                      | 11.75                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.49                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -0.97                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.84                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.71                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 2.31                      |                         |
| 26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....                  | 12.36                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -0.50                     |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -1.00                     |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -1.89                     |                         |
| <i>For &gt;500, Deduct</i>  | -2.77                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 2.31                      |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 26 05 29 00-0261        | EA  |     | 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....   | 12.58                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.51                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.01                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.90                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.80                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 2.31                   |                      |
| <b>26 05 29 00-0262</b> |     |     | <b>Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel</b> <small>(26 05 29 00-0165)</small> |                        |                      |
| 26 05 29 00-0263        | EA  |     | 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....                      | 6.85                   |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.29                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -0.57                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.09                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -1.61                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.39                   |                      |
| 26 05 29 00-0264        | EA  |     | 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....                      | 6.79                   |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.29                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -0.57                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.09                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -1.60                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.39                   |                      |
| 26 05 29 00-0265        | EA  |     | 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....                        | 6.72                   |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.28                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -0.57                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.08                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -1.60                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.39                   |                      |
| 26 05 29 00-0266        | EA  |     | 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....                    | 8.84                   |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.37                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -0.75                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.43                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.11                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.85                   |                      |
| 26 05 29 00-0267        | EA  |     | 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....                    | 10.09                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.41                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -0.81                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.53                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.24                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.85                   |                      |
| 26 05 29 00-0268        | EA  |     | 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel .....                        | 10.16                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.41                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -0.82                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -1.53                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -2.25                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.85                   |                      |
| <b>26 05 29 00-0269</b> |     |     | <b>"J" Type Conduit Hangers</b> <small>(26 05 29 00-0165)</small>   |                        |                      |
| 26 05 29 00-0270        | EA  |     | 1/2", "J" Type Conduit Hanger (Unistrut J1205) .....  | 28.42                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.98                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.96                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.48                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -5.00                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 3.23                   |                      |
| 26 05 29 00-0271        | EA  |     | 3/4", "J" Type Conduit Hanger (Unistrut J1207) .....  | 28.73                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -0.99                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -1.98                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.50                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -5.03                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 3.23                   |                      |
| 26 05 29 00-0272        | EA  |     | 1", "J" Type Conduit Hanger (Unistrut J1210) .....  | 30.55                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.07                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.14                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.83                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -5.52                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 3.69                   |                      |
| 26 05 29 00-0273        | EA  |     | 1-1/4", "J" Type Conduit Hanger (Unistrut J1212) .....  | 30.88                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.08                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.16                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -3.85                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -5.55                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 3.69                   |                      |
| 26 05 29 00-0274        | EA  |     | 1-1/2", "J" Type Conduit Hanger (Unistrut J1215) .....  | 32.64                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.16                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.32                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -4.18                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -6.03                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.15                   |                      |
| 26 05 29 00-0275        | EA  |     | 2", "J" Type Conduit Hanger (Unistrut J1220) .....  | 33.89                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -1.19                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -2.39                  |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -4.27                  |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -6.16                  |                      |
|                         |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.15                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225) .....   | 53.36                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.72                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -3.44                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -5.93                     |                         |
| <i>For &gt;500, Deduct</i>   | -8.41                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.62                      |                         |
| 26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....  | 56.78                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.84                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -3.69                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -6.37                     |                         |
| <i>For &gt;500, Deduct</i>   | -9.06                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.08                      |                         |
| 26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235) .....   | 61.16                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -1.99                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -3.98                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -6.89                     |                         |
| <i>For &gt;500, Deduct</i>   | -9.81                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.54                      |                         |
| 26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....  | 80.60                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -2.48                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -4.95                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -8.35                     |                         |
| <i>For &gt;500, Deduct</i>   | -11.75                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 5.54                      |                         |
| 26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....  | 88.51                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -2.71                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -5.43                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -9.14                     |                         |
| <i>For &gt;500, Deduct</i>   | -12.85                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 6.00                      |                         |
| 26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....  | 124.17                    |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -3.68                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -7.36                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -12.20                    |                         |
| <i>For &gt;500, Deduct</i>   | -17.03                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 6.92                      |                         |
| <b>26 05 29 00-0282 Between Studs Box Brackets</b> <small>(26 05 29 00-0165)</small>                                       |                           |                         |
| 26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A) ..... | 10.34                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.37                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.75                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -1.35                     |                         |
| <i>For &gt;500, Deduct</i>   | -1.96                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 1.39                      |                         |
| 26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A) ..... | 12.32                     |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.42                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.85                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -1.50                     |                         |
| <i>For &gt;500, Deduct</i>   | -2.16                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 1.39                      |                         |
| <b>26 05 29 00-0285 Hangers And Brackets</b> <small>(26 05 29 00-0165)</small>   |                           |                         |
| 26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI) .....   | 3.83                      |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.67                     |                         |
| <i>For &gt;500, Deduct</i>   | -1.00                     |                         |
| 26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB).....  | 3.72                      |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.34                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.66                     |                         |
| <i>For &gt;500, Deduct</i>   | -0.99                     |                         |
| 26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO).....   | 3.72                      |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.17                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.34                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.66                     |                         |
| <i>For &gt;500, Deduct</i>   | -0.99                     |                         |
| 26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....                 | 4.91                      |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.40                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.75                     |                         |
| <i>For &gt;500, Deduct</i>   | -1.11                     |                         |
| 26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....                 | 4.93                      |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.40                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.75                     |                         |
| <i>For &gt;500, Deduct</i>   | -1.11                     |                         |
| 26 05 29 00-0291 EA Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....                        | 4.80                      |                         |
| <i>For &gt;50 To 100, Deduct</i>   | -0.20                     |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -0.39                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.75                     |                         |
| <i>For &gt;500, Deduct</i>   | -1.10                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 05 29 00-0292        | EA  | Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....       | 4.91                      |                         |
|                         |     | <i>For &gt;50 To 100, Deduct</i>  | -0.20                     |                         |
|                         |     | <i>For &gt;100 To 250, Deduct</i>   | -0.40                     |                         |
|                         |     | <i>For &gt;250 To 500, Deduct</i>   | -0.75                     |                         |
|                         |     | <i>For &gt;500, Deduct</i>  | -1.11                     |                         |
| 26 05 29 00-0293        | EA  | Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....       | 4.93                      |                         |
|                         |     | <i>For &gt;50 To 100, Deduct</i>  | -0.20                     |                         |
|                         |     | <i>For &gt;100 To 250, Deduct</i>   | -0.40                     |                         |
|                         |     | <i>For &gt;250 To 500, Deduct</i>   | -0.75                     |                         |
|                         |     | <i>For &gt;500, Deduct</i>  | -1.11                     |                         |
| <b>26 05 29 00-0294</b> |     | <b>Clips And Accessories</b> <small>(26 05 29 00-0165)</small>                                |                           |                         |
| 26 05 29 00-0295        | EA  | 1/2" Diameter Center, Bridle Ring (Caddy 2BR).....  | 2.58                      |                         |
|                         |     | <i>For &gt;50 To 100, Deduct</i>  | -0.11                     |                         |
|                         |     | <i>For &gt;100 To 250, Deduct</i>   | -0.23                     |                         |
|                         |     | <i>For &gt;250 To 500, Deduct</i>   | -0.43                     |                         |
|                         |     | <i>For &gt;500, Deduct</i>  | -0.64                     |                         |
| 26 05 29 00-0296        | EA  | 3/4" Diameter Center, Bridle Ring (Caddy 2BR12).....  | 2.62                      |                         |
|                         |     | <i>For &gt;50 To 100, Deduct</i>  | -0.11                     |                         |
|                         |     | <i>For &gt;100 To 250, Deduct</i>   | -0.23                     |                         |
|                         |     | <i>For &gt;250 To 500, Deduct</i>   | -0.44                     |                         |
|                         |     | <i>For &gt;500, Deduct</i>  | -0.65                     |                         |
| 26 05 29 00-0297        | EA  | 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20).....  | 2.80                      |                         |
|                         |     | <i>For &gt;50 To 100, Deduct</i>  | -0.12                     |                         |
|                         |     | <i>For &gt;100 To 250, Deduct</i>   | -0.24                     |                         |
|                         |     | <i>For &gt;250 To 500, Deduct</i>   | -0.45                     |                         |
|                         |     | <i>For &gt;500, Deduct</i>  | -0.66                     |                         |
| 26 05 29 00-0298        | EA  | 2" Diameter Center, Bridle Ring (Caddy 2BR32).....  | 3.17                      |                         |
|                         |     | <i>For &gt;50 To 100, Deduct</i>  | -0.13                     |                         |
|                         |     | <i>For &gt;100 To 250, Deduct</i>   | -0.25                     |                         |
|                         |     | <i>For &gt;250 To 500, Deduct</i>   | -0.48                     |                         |
|                         |     | <i>For &gt;500, Deduct</i>  | -0.70                     |                         |
| <b>26 05 29 00-0299</b> |     | <b>Wire Ties</b> <small>(26 05 29 00-0165)</small>  |                           |                         |
|                         |     | Note: Per hundred (C).  |                           |                         |
| 26 05 29 00-0300        | C   | 3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....                                      | 37.77                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 32.09                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 16.05                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.02                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.21                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 0.85                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.63                      |                         |
| 26 05 29 00-0301        | C   | 4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....                                      | 37.99                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 32.09                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 16.05                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.02                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.21                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 0.89                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.63                      |                         |
| 26 05 29 00-0302        | C   | 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....                                  | 38.14                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 32.09                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 16.05                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.02                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.21                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 0.91                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.63                      |                         |
| 26 05 29 00-0303        | C   | 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....                                  | 38.21                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 32.09                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 16.05                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.02                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.21                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 0.92                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.63                      |                         |
| 26 05 29 00-0304        | C   | 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....                                  | 39.67                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 33.48                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 16.74                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.37                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.35                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 0.93                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.04                     |                         |
| 26 05 29 00-0305        | C   | 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....                                      | 45.99                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 35.01                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 17.51                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.75                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.50                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 1.65                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.50                     |                         |
| 26 05 29 00-0306        | C   | 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....                                  | 43.87                     |                         |
|                         |     | <i>For Up To 0.1, Add</i>   | 32.09                     |                         |
|                         |     | <i>For &gt;0.1 To 0.25, Add</i>   | 16.05                     |                         |
|                         |     | <i>For &gt;0.25 To 0.75, Add</i>  | 8.02                      |                         |
|                         |     | <i>For &gt;2.0, Deduct</i>  | -3.21                     |                         |
|                         |     | <i>For UV Black, Add</i>  | 1.77                      |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.63                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....            | 45.34                     |                         |
| For Up To 0.1, Add   | 33.48                     |                         |
| For >0.1 To 0.25, Add  | 16.74                     |                         |
| For >0.25 To 0.75, Add   | 8.37                      |                         |
| For >2.0, Deduct   | -3.35                     |                         |
| For UV Black, Add  | 1.78                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.04                     |                         |
| 26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....            | 46.94                     |                         |
| For Up To 0.1, Add   | 35.01                     |                         |
| For >0.1 To 0.25, Add  | 17.51                     |                         |
| For >0.25 To 0.75, Add   | 8.75                      |                         |
| For >2.0, Deduct   | -3.50                     |                         |
| For UV Black, Add  | 1.79                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.50                     |                         |
| 26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....           | 65.26                     |                         |
| For Up To 0.1, Add   | 37.75                     |                         |
| For >0.1 To 0.25, Add  | 18.88                     |                         |
| For >0.25 To 0.75, Add   | 9.44                      |                         |
| For >2.0, Deduct   | -3.78                     |                         |
| For UV Black, Add  | 4.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.33                     |                         |
| 26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....       | 67.75                     |                         |
| For Up To 0.1, Add   | 37.75                     |                         |
| For >0.1 To 0.25, Add  | 18.88                     |                         |
| For >0.25 To 0.75, Add   | 9.44                      |                         |
| For >2.0, Deduct   | -3.78                     |                         |
| For UV Black, Add  | 4.50                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.33                     |                         |
| 26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....            | 48.68                     |                         |
| For Up To 0.1, Add   | 35.01                     |                         |
| For >0.1 To 0.25, Add  | 17.51                     |                         |
| For >0.25 To 0.75, Add   | 8.75                      |                         |
| For >2.0, Deduct   | -3.50                     |                         |
| For UV Black, Add  | 2.05                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.50                     |                         |
| 26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....            | 46.48                     |                         |
| For Up To 0.1, Add   | 35.01                     |                         |
| For >0.1 To 0.25, Add  | 17.51                     |                         |
| For >0.25 To 0.75, Add   | 8.75                      |                         |
| For >2.0, Deduct   | -3.50                     |                         |
| For UV Black, Add  | 1.72                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.50                     |                         |
| 26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....           | 65.95                     |                         |
| For Up To 0.1, Add   | 37.75                     |                         |
| For >0.1 To 0.25, Add  | 18.88                     |                         |
| For >0.25 To 0.75, Add   | 9.44                      |                         |
| For >2.0, Deduct   | -3.78                     |                         |
| For UV Black, Add  | 4.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.33                     |                         |
| 26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....       | 74.78                     |                         |
| For Up To 0.1, Add   | 40.11                     |                         |
| For >0.1 To 0.25, Add  | 20.06                     |                         |
| For >0.25 To 0.75, Add   | 10.03                     |                         |
| For >2.0, Deduct   | -4.01                     |                         |
| For UV Black, Add  | 5.20                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 12.03                     |                         |
| 26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....           | 72.21                     |                         |
| For Up To 0.1, Add   | 35.01                     |                         |
| For >0.1 To 0.25, Add  | 17.51                     |                         |
| For >0.25 To 0.75, Add   | 8.75                      |                         |
| For >2.0, Deduct   | -3.50                     |                         |
| For UV Black, Add  | 5.58                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.50                     |                         |
| 26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....          | 78.93                     |                         |
| For Up To 0.1, Add   | 37.75                     |                         |
| For >0.1 To 0.25, Add  | 18.88                     |                         |
| For >0.25 To 0.75, Add   | 9.44                      |                         |
| For >2.0, Deduct   | -3.78                     |                         |
| For UV Black, Add  | 6.18                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.33                     |                         |
| 26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....          | 94.28                     |                         |
| For Up To 0.1, Add   | 40.11                     |                         |
| For >0.1 To 0.25, Add  | 20.06                     |                         |
| For >0.25 To 0.75, Add   | 10.03                     |                         |
| For >2.0, Deduct   | -4.01                     |                         |
| For UV Black, Add  | 8.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 12.03                     |                         |
| 26 05 29 00-0318 C 17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....          | 131.53                    |                         |
| For Up To 0.1, Add   | 42.78                     |                         |
| For >0.1 To 0.25, Add  | 21.39                     |                         |
| For >0.25 To 0.75, Add   | 10.70                     |                         |
| For >2.0, Deduct   | -4.28                     |                         |
| For UV Black, Add  | 13.31                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 12.83                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0319 C 17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....  | 127.74                    |                         |
| For Up To 0.1, Add   | 42.78                     |                         |
| For >0.1 To 0.25, Add  | 21.39                     |                         |
| For >0.25 To 0.75, Add   | 10.70                     |                         |
| For >2.0, Deduct   | -4.28                     |                         |
| For UV Black, Add  | 12.74                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.83                     |                         |
| 26 05 29 00-0320 C 21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....  | 153.95                    |                         |
| For Up To 0.1, Add   | 44.78                     |                         |
| For >0.1 To 0.25, Add  | 22.39                     |                         |
| For >0.25 To 0.75, Add   | 11.20                     |                         |
| For >2.0, Deduct   | -4.48                     |                         |
| For UV Black, Add  | 16.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.43                     |                         |
| 26 05 29 00-0321 C 30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....  | 177.09                    |                         |
| For Up To 0.1, Add   | 46.96                     |                         |
| For >0.1 To 0.25, Add  | 23.48                     |                         |
| For >0.25 To 0.75, Add   | 11.74                     |                         |
| For >2.0, Deduct   | -4.70                     |                         |
| For UV Black, Add  | 19.52                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 14.09                     |                         |
| 26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....  | 239.73                    |                         |
| For Up To 0.1, Add   | 50.66                     |                         |
| For >0.1 To 0.25, Add  | 25.33                     |                         |
| For >0.25 To 0.75, Add   | 12.67                     |                         |
| For >2.0, Deduct   | -5.07                     |                         |
| For UV Black, Add  | 28.36                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 15.20                     |                         |
| 26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts.....   | 50.91                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 14.44                     |                         |
| 26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw.....  | 101.10                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 28.88                     |                         |
| 26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie.....   | 2.55                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 0.23                      |                         |
| 26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie.....   | 2.53                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 0.19                      |                         |
| 26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie.....  | 3.08                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 0.19                      |                         |
| 26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie.....  | 4.27                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 0.19                      |                         |
| 26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll.....  | 107.27                    |                         |
| Note: Cut to length.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 1.44                      |                         |
| <b>26 05 29 00-0330 Fastening Devices For Wireway And Conduit</b> <small>(26 05 29)</small>  |                           |                         |
| Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts. |                           |                         |
| <b>26 05 29 00-0331 Toggle Bolts</b> <small>(26 05 29 00-0330)</small>   |                           |                         |
| Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.   |                           |                         |
| 26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....  | 11.86                     |                         |
| For >50 To 100, Deduct   | -1.14                     |                         |
| For >100 To 250, Deduct  | -2.28                     |                         |
| For >250 To 500, Deduct  | -3.98                     |                         |
| For >500, Deduct   | -5.68                     |                         |
| 26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....  | 12.18                     |                         |
| For >50 To 100, Deduct   | -1.17                     |                         |
| For >100 To 250, Deduct  | -2.34                     |                         |
| For >250 To 500, Deduct  | -4.08                     |                         |
| For >500, Deduct   | -5.83                     |                         |
| 26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....   | 12.79                     |                         |
| For >50 To 100, Deduct   | -1.20                     |                         |
| For >100 To 250, Deduct  | -2.41                     |                         |
| For >250 To 500, Deduct  | -4.20                     |                         |
| For >500, Deduct   | -6.00                     |                         |
| 26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....   | 13.11                     |                         |
| For >50 To 100, Deduct   | -1.23                     |                         |
| For >100 To 250, Deduct  | -2.47                     |                         |
| For >250 To 500, Deduct  | -4.31                     |                         |
| For >500, Deduct   | -6.14                     |                         |
| 26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....  | 13.41                     |                         |
| For >50 To 100, Deduct   | -1.26                     |                         |
| For >100 To 250, Deduct  | -2.52                     |                         |
| For >250 To 500, Deduct  | -4.40                     |                         |
| For >500, Deduct   | -6.29                     |                         |
| 26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....   | 15.02                     |                         |
| For >50 To 100, Deduct   | -1.32                     |                         |
| For >100 To 250, Deduct  | -2.65                     |                         |
| For >250 To 500, Deduct  | -4.61                     |                         |
| For >500, Deduct   | -6.56                     |                         |
| 26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....  | 15.60                     |                         |
| For >50 To 100, Deduct   | -1.36                     |                         |
| For >100 To 250, Deduct  | -2.72                     |                         |
| For >250 To 500, Deduct  | -4.73                     |                         |
| For >500, Deduct   | -6.73                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 29 00-0339    Machine Screws</b> <small>(26 05 29 00-0330)</small>   |                           |                         |
| Note: Includes drilling in concrete, concrete block, wood or steel.   |                           |                         |
| 26 05 29 00-0340    EA    #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....   | 3.51                      |                         |
| For >50 To 100, Deduct  | -0.34                     |                         |
| For >100 To 250, Deduct   | -0.69                     |                         |
| For >250 To 500, Deduct   | -1.20                     |                         |
| For >500, Deduct  | -1.72                     |                         |
| 26 05 29 00-0341    EA    #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....  | 3.56                      |                         |
| For >50 To 100, Deduct  | -0.34                     |                         |
| For >100 To 250, Deduct   | -0.69                     |                         |
| For >250 To 500, Deduct   | -1.20                     |                         |
| For >500, Deduct  | -1.72                     |                         |
| 26 05 29 00-0342    EA    1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw .....  | 4.47                      |                         |
| For >50 To 100, Deduct  | -0.43                     |                         |
| For >100 To 250, Deduct   | -0.87                     |                         |
| For >250 To 500, Deduct   | -1.51                     |                         |
| For >500, Deduct  | -2.16                     |                         |
| 26 05 29 00-0343    EA    5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw .....   | 4.65                      |                         |
| For >50 To 100, Deduct  | -0.44                     |                         |
| For >100 To 250, Deduct   | -0.87                     |                         |
| For >250 To 500, Deduct   | -1.53                     |                         |
| For >500, Deduct  | -2.18                     |                         |
| 26 05 29 00-0344    EA    3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw .....  | 5.72                      |                         |
| For >50 To 100, Deduct  | -0.53                     |                         |
| For >100 To 250, Deduct   | -1.05                     |                         |
| For >250 To 500, Deduct   | -1.84                     |                         |
| For >500, Deduct  | -2.62                     |                         |
| <b>26 05 29 00-0345    Hex Lag Bolts With Lag Shield Expansion Anchors</b> <small>(26 05 29 00-0330)</small>                              |                           |                         |
| Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.                             |                           |                         |
| 26 05 29 00-0346    EA    1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor .....                | 5.58                      |                         |
| For >50 To 100, Deduct  | -0.46                     |                         |
| For >100 To 250, Deduct   | -0.92                     |                         |
| For >250 To 500, Deduct   | -1.60                     |                         |
| For >500, Deduct  | -2.27                     |                         |
| 26 05 29 00-0347    EA    5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor .....               | 5.51                      |                         |
| For >50 To 100, Deduct  | -0.46                     |                         |
| For >100 To 250, Deduct   | -0.92                     |                         |
| For >250 To 500, Deduct   | -1.59                     |                         |
| For >500, Deduct  | -2.26                     |                         |
| 26 05 29 00-0348    EA    3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor .....                | 7.70                      |                         |
| For >50 To 100, Deduct  | -0.58                     |                         |
| For >100 To 250, Deduct   | -1.15                     |                         |
| For >250 To 500, Deduct   | -1.99                     |                         |
| For >500, Deduct  | -2.82                     |                         |
| 26 05 29 00-0349    EA    1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor .....                | 9.74                      |                         |
| For >50 To 100, Deduct  | -0.69                     |                         |
| For >100 To 250, Deduct   | -1.38                     |                         |
| For >250 To 500, Deduct   | -2.37                     |                         |
| For >500, Deduct  | -3.35                     |                         |
| <b>26 05 29 00-0350    Hanger Lag Bolts With Hex Nuts</b> <small>(26 05 29 00-0330)</small>   |                           |                         |
| Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.                      |                           |                         |
| 26 05 29 00-0351    EA    1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....                                  | 4.19                      |                         |
| For >50 To 100, Deduct  | -0.36                     |                         |
| For >100 To 250, Deduct   | -0.72                     |                         |
| For >250 To 500, Deduct   | -1.25                     |                         |
| For >500, Deduct  | -1.78                     |                         |
| 26 05 29 00-0352    EA    5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....                                 | 4.25                      |                         |
| For >50 To 100, Deduct  | -0.36                     |                         |
| For >100 To 250, Deduct   | -0.72                     |                         |
| For >250 To 500, Deduct   | -1.26                     |                         |
| For >500, Deduct  | -1.79                     |                         |
| 26 05 29 00-0353    EA    3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....                              | 5.01                      |                         |
| For >50 To 100, Deduct  | -0.41                     |                         |
| For >100 To 250, Deduct   | -0.82                     |                         |
| For >250 To 500, Deduct   | -1.42                     |                         |
| For >500, Deduct  | -2.03                     |                         |
| <b>26 05 29 00-0354    Hollow Wall Screw Anchors</b> <small>(26 05 29 00-0330)</small>  |                           |                         |
| 26 05 29 00-0355    EA    6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor..... | 2.48                      |                         |
| For >50 To 100, Deduct  | -0.22                     |                         |
| For >100 To 250, Deduct   | -0.43                     |                         |
| For >250 To 500, Deduct   | -0.75                     |                         |
| For >500, Deduct  | -1.07                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 29 00-0356 EA 6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....     | 2.55                      |                         |
| For>50 To 100, Deduct   | -0.22                     |                         |
| For>100 To 250, Deduct  | -0.44                     |                         |
| For>250 To 500, Deduct  | -0.76                     |                         |
| For>500, Deduct   | -1.08                     |                         |
| 26 05 29 00-0357 EA 6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....   | 2.65                      |                         |
| For>50 To 100, Deduct   | -0.22                     |                         |
| For>100 To 250, Deduct  | -0.44                     |                         |
| For>250 To 500, Deduct  | -0.76                     |                         |
| For>500, Deduct   | -1.09                     |                         |
| 26 05 29 00-0358 EA 10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....       | 3.33                      |                         |
| For>50 To 100, Deduct   | -0.26                     |                         |
| For>100 To 250, Deduct  | -0.52                     |                         |
| For>250 To 500, Deduct  | -0.90                     |                         |
| For>500, Deduct   | -1.29                     |                         |
| 26 05 29 00-0359 EA 10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....     | 3.48                      |                         |
| For>50 To 100, Deduct   | -0.27                     |                         |
| For>100 To 250, Deduct  | -0.53                     |                         |
| For>250 To 500, Deduct  | -0.92                     |                         |
| For>500, Deduct   | -1.30                     |                         |
| 26 05 29 00-0360 EA 10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....   | 3.52                      |                         |
| For>50 To 100, Deduct   | -0.27                     |                         |
| For>100 To 250, Deduct  | -0.53                     |                         |
| For>250 To 500, Deduct  | -0.92                     |                         |
| For>500, Deduct   | -1.30                     |                         |
| 26 05 29 00-0361 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....     | 3.55                      |                         |
| For>50 To 100, Deduct   | -0.27                     |                         |
| For>100 To 250, Deduct  | -0.53                     |                         |
| For>250 To 500, Deduct  | -0.92                     |                         |
| For>500, Deduct   | -1.31                     |                         |
| 26 05 29 00-0362 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....   | 3.77                      |                         |
| For>50 To 100, Deduct   | -0.27                     |                         |
| For>100 To 250, Deduct  | -0.55                     |                         |
| For>250 To 500, Deduct  | -0.94                     |                         |
| For>500, Deduct   | -1.33                     |                         |
| 26 05 29 00-0363 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor..... | 3.85                      |                         |
| For>50 To 100, Deduct   | -0.27                     |                         |
| For>100 To 250, Deduct  | -0.55                     |                         |
| For>250 To 500, Deduct  | -0.94                     |                         |
| For>500, Deduct   | -1.34                     |                         |
| <b>26 05 29 00-0364 Lead Screw Anchors</b> (26 05 29 00-0330)   |                           |                         |
| Note: Includes screw.   |                           |                         |
| 26 05 29 00-0365 EA #6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw .....   | 5.80                      |                         |
| For>50 To 100, Deduct   | -0.54                     |                         |
| For>100 To 250, Deduct  | -1.08                     |                         |
| For>250 To 500, Deduct  | -1.88                     |                         |
| For>500, Deduct   | -2.68                     |                         |
| 26 05 29 00-0366 EA #10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw .....  | 6.88                      |                         |
| For>50 To 100, Deduct   | -0.63                     |                         |
| For>100 To 250, Deduct  | -1.25                     |                         |
| For>250 To 500, Deduct  | -2.18                     |                         |
| For>500, Deduct   | -3.11                     |                         |
| 26 05 29 00-0367 EA #16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw .....  | 9.25                      |                         |
| For>50 To 100, Deduct   | -0.81                     |                         |
| For>100 To 250, Deduct  | -1.62                     |                         |
| For>250 To 500, Deduct  | -2.81                     |                         |
| For>500, Deduct   | -4.01                     |                         |
| <b>26 05 29 00-0368 Acoustical T-Bar Clips</b> (26 05 29 00-0330)   |                           |                         |
| Note: For conduit installation above suspended ceilings up to 15' height.   |                           |                         |
| 26 05 29 00-0369 EA 1/2" Conduit, Push-In Acoustical T-Bar Clip .....   | 9.30                      |                         |
| For>50 To 100, Deduct   | -0.72                     |                         |
| For>100 To 250, Deduct  | -1.45                     |                         |
| For>250 To 500, Deduct  | -2.50                     |                         |
| For>500, Deduct   | -3.55                     |                         |
| 26 05 29 00-0370 EA 3/4" Conduit, Push-In Acoustical T-Bar Clip .....   | 9.75                      |                         |
| For>50 To 100, Deduct   | -0.76                     |                         |
| For>100 To 250, Deduct  | -1.52                     |                         |
| For>250 To 500, Deduct  | -2.63                     |                         |
| For>500, Deduct   | -3.73                     |                         |
| 26 05 29 00-0371 EA 1" Conduit, Push-In Acoustical T-Bar Clip .....   | 10.59                     |                         |
| For>50 To 100, Deduct   | -0.81                     |                         |
| For>100 To 250, Deduct  | -1.62                     |                         |
| For>250 To 500, Deduct  | -2.79                     |                         |
| For>500, Deduct   | -3.97                     |                         |
| <b>26 05 29 00-0372 Threaded Rod, Accessories And Attachments</b> (26 05 29)  |                           |                         |
| <b>26 05 29 00-0373 Threaded Rod And Rod Accessories</b> (26 05 29 00-0372)   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 29 00-0374 Carbon Steel Threaded Rod</b> <small>(26 05 29 00-0373)</small>         |                           |                         |
| <small>Note: Includes plain finish.</small>   |                           |                         |
| 26 05 29 00-0375 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....        | 4.56                      | 0.97                    |
| <i>For Galvanized, Add</i>  | <i>1.05</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>0.75</i>               |                         |
| 26 05 29 00-0376 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....        | 6.24                      | 1.03                    |
| <i>For Galvanized, Add</i>  | <i>1.68</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>1.19</i>               |                         |
| 26 05 29 00-0377 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....        | 8.62                      | 1.06                    |
| <i>For Galvanized, Add</i>  | <i>2.60</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>1.85</i>               |                         |
| 26 05 29 00-0378 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....        | 13.98                     | 1.09                    |
| <i>For Galvanized, Add</i>  | <i>4.72</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>3.36</i>               |                         |
| 26 05 29 00-0379 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....        | 15.23                     | 1.13                    |
| <i>For Galvanized, Add</i>  | <i>5.18</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>3.69</i>               |                         |
| 26 05 29 00-0380 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....          | 20.77                     | 1.27                    |
| <i>For Galvanized, Add</i>  | <i>7.28</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>5.19</i>               |                         |
| 26 05 29 00-0381 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....      | 25.80                     | 1.42                    |
| <i>For Galvanized, Add</i>  | <i>9.18</i>               |                         |
| <i>For Zinc Coated, Add</i>   | <i>6.54</i>               |                         |
| <b>26 05 29 00-0382 Threaded Rod Couplings</b> <small>(26 05 29 00-0373)</small>            |                           |                         |
| 26 05 29 00-0383 EA 3/8" Diameter, Threaded Rod Coupling Nut .....                          | 12.08                     |                         |
| 26 05 29 00-0384 EA 1/2" Diameter, Threaded Rod Coupling Nut .....                          | 13.66                     |                         |
| 26 05 29 00-0385 EA 5/8" Diameter, Threaded Rod Coupling Nut .....                          | 16.85                     |                         |
| 26 05 29 00-0386 EA 3/4" Diameter, Threaded Rod Coupling Nut .....                          | 20.28                     |                         |
| 26 05 29 00-0387 EA 7/8" Diameter, Threaded Rod Coupling Nut .....                          | 28.94                     |                         |
| 26 05 29 00-0388 EA 1" Diameter, Threaded Rod Coupling Nut .....                            | 34.30                     |                         |
| 26 05 29 00-0389 EA 1-1/8" Diameter, Threaded Rod Coupling Nut .....                        | 63.41                     |                         |
| <b>26 05 29 00-0390 Flat Washers</b> <small>(26 05 29 00-0373)</small>                      |                           |                         |
| 26 05 29 00-0391 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....   | 1.03                      | 0.38                    |
| <i>For Galvanized, Add</i>  | <i>0.04</i>               |                         |
| 26 05 29 00-0392 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....   | 1.30                      | 0.38                    |
| <i>For Galvanized, Add</i>  | <i>0.09</i>               |                         |
| 26 05 29 00-0393 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....   | 1.67                      | 0.38                    |
| <i>For Galvanized, Add</i>  | <i>0.17</i>               |                         |
| 26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....   | 2.02                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.24</i>               |                         |
| 26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....   | 2.26                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.28</i>               |                         |
| 26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....     | 2.67                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.35</i>               |                         |
| 26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer ..... | 2.99                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.39</i>               |                         |
| <b>26 05 29 00-0398 Malleable Iron Eye Sockets</b> <small>(26 05 29 00-0373)</small>        |                           |                         |
| <small>Note: Type 16.</small>   |                           |                         |
| 26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket .....                          | 14.52                     |                         |
| 26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket .....                          | 17.37                     |                         |
| 26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket .....                          | 30.33                     |                         |
| 26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket .....                          | 43.28                     |                         |
| 26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket .....                          | 46.10                     |                         |
| <b>26 05 29 00-0404 Hex Nuts</b> <small>(26 05 29 00-0373)</small>                          |                           |                         |
| 26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 1.00                      | 0.38                    |
| <i>For Galvanized, Add</i>  | <i>0.03</i>               |                         |
| 26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 1.25                      | 0.38                    |
| <i>For Galvanized, Add</i>  | <i>0.07</i>               |                         |
| 26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 1.67                      | 0.38                    |
| <i>For Galvanized, Add</i>  | <i>0.17</i>               |                         |
| 26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 1.96                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.22</i>               |                         |
| 26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....      | 2.81                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.42</i>               |                         |
| 26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....        | 3.55                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>0.57</i>               |                         |
| 26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut .....    | 5.72                      | 0.77                    |
| <i>For Galvanized, Add</i>  | <i>1.08</i>               |                         |
| <b>26 05 29 00-0412 Forged Steel Turnbuckles</b> <small>(26 05 29 00-0373)</small>          |                           |                         |
| <small>Note: Type 13.</small>   |                           |                         |
| 26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body .....                | 35.61                     |                         |
| 26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body .....                | 43.95                     |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body .....                                       | 58.79                     |                         |
| 26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body .....                                       | 72.72                     |                         |
| 26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body .....                                       | 178.49                    |                         |
| 26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body .....   | 119.04                    |                         |
| 26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body .....                                     | 238.95                    |                         |
| <b>26 05 29 00-0420 Attachments</b> <small>(26 05 29 00-0372)</small>  |                           |                         |
| <b>26 05 29 00-0421 Welded Beam Attachments</b> <small>(26 05 29 00-0420)</small>                                  |                           |                         |
| Note: Type 22.   |                           |                         |
| 26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment .....  | 65.43                     | 15.39                   |
| 26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment .....  | 69.78                     | 16.15                   |
| 26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment .....  | 74.26                     | 17.07                   |
| 26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment .....  | 94.25                     | 18.15                   |
| 26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment .....  | 112.75                    | 19.22                   |
| 26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment .....  | 157.37                    | 22.00                   |
| 26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment .....  | 221.76                    | 23.07                   |
| <b>26 05 29 00-0429 C-Clamp Style Beam Clamps</b> <small>(26 05 29 00-0420)</small>                                |                           |                         |
| Note: Type 23. Top or bottom flange mount.   |                           |                         |
| 26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp .....  | 23.49                     | 11.56                   |
| 26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp .....  | 27.87                     | 12.32                   |
| 26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp .....  | 31.55                     | 13.20                   |
| 26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp .....  | 40.25                     | 14.21                   |
| 26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp .....  | 57.84                     | 15.40                   |
| <b>26 05 29 00-0435 Bottom Mount I-Beam Clamps</b> <small>(26 05 29 00-0420)</small>                               |                           |                         |
| Note: Type 21. For attaching threaded rod centered under beam flanges.   |                           |                         |
| 26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....                          | 62.90                     | 15.40                   |
| 26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....                          | 91.79                     | 16.80                   |
| 26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....                          | 130.54                    | 18.49                   |
| 26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....                          | 156.07                    | 20.53                   |
| 26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....                            | 374.97                    | 23.10                   |
| <b>26 05 29 00-0441 Steel U-Bolts</b> <small>(26 05 29 00-0420)</small>  |                           |                         |
| Note: Type 24. Includes plate and nuts.  |                           |                         |
| 26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 19.14                     | 9.24                    |
| 26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 20.72                     | 9.73                    |
| 26 05 29 00-0444 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 22.28                     | 10.27                   |
| 26 05 29 00-0445 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 25.24                     | 10.87                   |
| 26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 26.10                     | 11.56                   |
| 26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 27.93                     | 12.32                   |
| 26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 39.74                     | 13.20                   |
| 26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 43.76                     | 14.21                   |
| 26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt .....  | 52.67                     | 15.40                   |
| <b>26 05 29 00-0451 Stainless Steel Threaded Rod</b> <small>(26 05 29 00-0372)</small>                             |                           |                         |
| 26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                     | 4.63                      | 0.77                    |
| For 316 Stainless Steel, Add   | 1.25                      |                         |
| 26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                    | 6.99                      | 0.84                    |
| For 316 Stainless Steel, Add   | 2.14                      |                         |
| 26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                     | 8.99                      | 0.97                    |
| For 316 Stainless Steel, Add   | 2.86                      |                         |
| 26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                    | 12.49                     | 0.99                    |
| For 316 Stainless Steel, Add   | 4.25                      |                         |
| 26 05 29 00-0456 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                     | 14.98                     | 1.03                    |
| For 316 Stainless Steel, Add   | 5.24                      |                         |
| 26 05 29 00-0457 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                     | 22.47                     | 1.04                    |
| For 316 Stainless Steel, Add   | 8.25                      |                         |
| 26 05 29 00-0458 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                     | 31.46                     | 1.06                    |
| For 316 Stainless Steel, Add   | 11.88                     |                         |
| 26 05 29 00-0459 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                     | 43.29                     | 1.09                    |
| For 316 Stainless Steel, Add   | 16.65                     |                         |
| 26 05 29 00-0460 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                       | 55.63                     | 1.27                    |
| For 316 Stainless Steel, Add   | 21.49                     |                         |
| 26 05 29 00-0461 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod .....                                   | 117.78                    | 1.54                    |
| For 316 Stainless Steel, Add   | 46.40                     |                         |
| <b>26 05 29 00-0462 Polyvinyl Chloride (PVC) Coated Supports</b> <small>(26 05 29)</small>                         |                           |                         |
| Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.                                    |                           |                         |
| <b>26 05 29 00-0463 Polyvinyl Chloride (PVC) Coated Beam Clamps</b> <small>(26 05 29 00-0462)</small>              |                           |                         |
| <b>26 05 29 00-0464 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps</b> <small>(26 05 29 00-0463)</small> |                           |                         |
| 26 05 29 00-0465 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                            | 76.43                     | 30.76                   |
| 26 05 29 00-0466 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                            | 83.11                     | 33.53                   |
| 26 05 29 00-0467 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                              | 89.03                     | 36.91                   |



|                         | MINOR<br>CSI UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------|--|---------------------------|-------------------------|
| 26 05 29 00-0468        | EA               | 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                    | 105.75                    | 41.07                   |
| 26 05 29 00-0469        | EA               | 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                    | 121.77                    | 46.15                   |
| 26 05 29 00-0470        | EA               | 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....                         | 144.23                    | 50.76                   |
| 26 05 29 00-0471        | EA               | 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                    | 157.69                    | 55.38                   |
| 26 05 29 00-0472        | EA               | 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....                         | 173.34                    | 59.99                   |
| 26 05 29 00-0473        | EA               | 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                    | 183.46                    | 64.60                   |
| 26 05 29 00-0474        | EA               | 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....                         | 198.10                    | 69.22                   |
| <b>26 05 29 00-0475</b> |                  | <b>Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)</b>          |                           |                         |
| 26 05 29 00-0476        | EA               | 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                         | 81.29                     | 30.76                   |
| 26 05 29 00-0477        | EA               | 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                         | 86.41                     | 33.53                   |
| 26 05 29 00-0478        | EA               | 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                           | 98.89                     | 36.91                   |
| 26 05 29 00-0479        | EA               | 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                       | 109.26                    | 41.07                   |
| 26 05 29 00-0480        | EA               | 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                       | 123.12                    | 46.15                   |
| 26 05 29 00-0481        | EA               | 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                           | 141.91                    | 50.76                   |
| 26 05 29 00-0482        | EA               | 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                       | 162.08                    | 55.38                   |
| 26 05 29 00-0483        | EA               | 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                           | 179.16                    | 59.99                   |
| 26 05 29 00-0484        | EA               | 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                       | 190.79                    | 64.60                   |
| 26 05 29 00-0485        | EA               | 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                           | 199.07                    | 69.22                   |
| <b>26 05 29 00-0486</b> |                  | <b>Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)</b>              |                           |                         |
| 26 05 29 00-0487        | EA               | 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                             | 77.23                     | 30.45                   |
| 26 05 29 00-0488        | EA               | 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                             | 83.21                     | 33.23                   |
| 26 05 29 00-0489        | EA               | 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                               | 93.98                     | 36.91                   |
| 26 05 29 00-0490        | EA               | 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                           | 109.38                    | 40.61                   |
| 26 05 29 00-0491        | EA               | 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                           | 140.34                    | 46.15                   |
| 26 05 29 00-0492        | EA               | 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....                               | 153.92                    | 50.76                   |
| <b>26 05 29 00-0493</b> |                  | <b>Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)</b>                 |                           |                         |
| <b>26 05 29 00-0494</b> |                  | <b>One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)</b> |                           |                         |
| 26 05 29 00-0495        | EA               | 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                | 8.46                      | 0.92                    |
| 26 05 29 00-0496        | EA               | 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                | 9.16                      | 0.92                    |
| 26 05 29 00-0497        | EA               | 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 13.32                     | 0.92                    |
| 26 05 29 00-0498        | EA               | 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 16.12                     | 0.92                    |
| 26 05 29 00-0499        | EA               | 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 21.12                     | 0.92                    |
| 26 05 29 00-0500        | EA               | 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 31.56                     | 0.92                    |
| 26 05 29 00-0501        | EA               | 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 41.94                     | 0.92                    |
| 26 05 29 00-0502        | EA               | 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 56.07                     | 0.92                    |
| 26 05 29 00-0503        | EA               | 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 98.99                     | 0.92                    |
| 26 05 29 00-0504        | EA               | 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 105.18                    | 0.92                    |
| <b>26 05 29 00-0505</b> |                  | <b>Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)</b> |                           |                         |
| 26 05 29 00-0506        | EA               | 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                | 16.68                     | 1.84                    |
| 26 05 29 00-0507        | EA               | 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                | 16.75                     | 1.84                    |
| 26 05 29 00-0508        | EA               | 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 17.17                     | 1.84                    |
| 26 05 29 00-0509        | EA               | 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 21.44                     | 1.84                    |
| 26 05 29 00-0510        | EA               | 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 22.03                     | 1.84                    |
| 26 05 29 00-0511        | EA               | 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 25.18                     | 1.84                    |
| 26 05 29 00-0512        | EA               | 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 28.24                     | 1.84                    |
| 26 05 29 00-0513        | EA               | 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 29.50                     | 1.84                    |
| 26 05 29 00-0514        | EA               | 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....              | 31.47                     | 1.84                    |
| 26 05 29 00-0515        | EA               | 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....                  | 34.08                     | 1.84                    |
| <b>26 05 29 00-0516</b> |                  | <b>Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)</b>              |                           |                         |
| <b>26 05 29 00-0517</b> |                  | <b>Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)</b>              |                           |                         |
| 26 05 29 00-0518        | EA               | 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                             | 15.18                     | 1.84                    |
| 26 05 29 00-0519        | EA               | 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                             | 17.57                     | 1.84                    |
| 26 05 29 00-0520        | EA               | 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                               | 21.93                     | 1.84                    |
| 26 05 29 00-0521        | EA               | 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                           | 25.56                     | 1.84                    |
| 26 05 29 00-0522        | EA               | 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                           | 34.01                     | 1.84                    |
| 26 05 29 00-0523        | EA               | 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                               | 86.00                     | 1.84                    |
| 26 05 29 00-0524        | EA               | 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                           | 82.66                     | 1.84                    |
| 26 05 29 00-0525        | EA               | 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                               | 112.66                    | 1.84                    |
| 26 05 29 00-0526        | EA               | 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                           | 196.74                    | 1.84                    |
| 26 05 29 00-0527        | EA               | 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer .....                               | 196.74                    | 1.84                    |
| <b>26 05 29 00-0528</b> |                  | <b>Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)</b>   |                           |                         |
| <b>26 05 29 00-0529</b> |                  | <b>Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)</b>                   |                           |                         |
| 26 05 29 00-0530        | LF               | 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod .....                        | 10.43                     | 1.23                    |
| 26 05 29 00-0531        | LF               | 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod .....                        | 12.81                     | 1.38                    |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|---|------------------------|----------------------|
| 26 05 29 00-0532                               |     |     | <b>Attachments</b> <small>(26 05 29 00-0462)</small>  |                        |                      |
| 26 05 29 00-0533                               |     |     | <b>Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts</b> <small>(26 05 29 00-0532)</small> |                        |                      |
| 26 05 29 00-0534                               | EA  |     | 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                 | 22.61                  | 9.24                 |
| 26 05 29 00-0535                               | EA  |     | 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                 | 23.41                  | 9.70                 |
| 26 05 29 00-0536                               | EA  |     | 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                   | 24.66                  | 10.32                |
| 26 05 29 00-0537                               | EA  |     | 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                               | 26.23                  | 10.93                |
| 26 05 29 00-0538                               | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                               | 27.92                  | 11.56                |
| 26 05 29 00-0539                               | EA  |     | 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                   | 31.16                  | 12.32                |
| 26 05 29 00-0540                               | EA  |     | 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                               | 43.48                  | 13.25                |
| 26 05 29 00-0541                               | EA  |     | 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                   | 45.72                  | 14.17                |
| 26 05 29 00-0542                               | EA  |     | 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                   | 48.82                  | 15.41                |
| 26 05 29 00-0543                               | EA  |     | 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                   | 77.16                  | 17.56                |
| 26 05 29 00-0544                               | EA  |     | 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts .....                                   | 95.15                  | 20.33                |
| 26 05 29 00-0545                               |     |     | <b>Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps</b> <small>(26 05 29 00-0532)</small>         |                        |                      |
| 26 05 29 00-0546                               | EA  |     | 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp .....                  | 77.96                  | 30.45                |
| 26 05 29 00-0547                               | EA  |     | 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp .....                   | 89.52                  | 30.45                |
| 26 05 29 00-0548                               | EA  |     | 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp .....                      | 94.29                  | 30.45                |
| 26 05 29 00-0549                               | EA  |     | 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp .....                      | 103.60                 | 32.31                |
| 26 05 29 00-0550                               | EA  |     | 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp .....                  | 121.01                 | 36.91                |
| 26 05 29 00-0551                               |     |     | <b>Polyvinyl Chloride (PVC) Coated Pipe Straps</b> <small>(26 05 29 00-0532)</small>                    |                        |                      |
| Note: Includes stainless steel nuts and bolts. |     |     |   |                        |                      |
| 26 05 29 00-0552                               | EA  |     | 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 33.53                  | 10.15                |
| 26 05 29 00-0553                               | EA  |     | 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 35.11                  | 11.08                |
| 26 05 29 00-0554                               | EA  |     | 1" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 38.28                  | 12.00                |
| 26 05 29 00-0555                               | EA  |     | 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 42.95                  | 13.84                |
| 26 05 29 00-0556                               | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 49.22                  | 15.69                |
| 26 05 29 00-0557                               | EA  |     | 2" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 55.06                  | 16.61                |
| 26 05 29 00-0558                               | EA  |     | 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 60.80                  | 18.46                |
| 26 05 29 00-0559                               | EA  |     | 3" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 72.97                  | 20.31                |
| 26 05 29 00-0560                               | EA  |     | 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 80.16                  | 21.23                |
| 26 05 29 00-0561                               | EA  |     | 4" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 83.92                  | 23.07                |
| 26 05 29 00-0562                               | EA  |     | 5" Polyvinyl Chloride (PVC) Coated Pipe Strap .....   | 89.22                  | 25.85                |
| 26 05 29 00-0563                               |     |     | <b>Polyvinyl Chloride (PVC) Coated Channel</b> <small>(26 05 29 00-0462)</small>                        |                        |                      |
| 26 05 29 00-0564                               | LF  |     | A12, Polyvinyl Chloride (PVC) Coated Channel .....  | 37.05                  | 4.62                 |
| 26 05 29 00-0565                               | LF  |     | A12A, Polyvinyl Chloride (PVC) Coated Channel .....   | 66.27                  | 6.46                 |
| 26 05 29 00-0566                               | LF  |     | A12P, Polyvinyl Chloride (PVC) Coated Channel .....   | 39.68                  | 4.62                 |
| 26 05 29 00-0567                               | LF  |     | C14, Polyvinyl Chloride (PVC) Coated Channel .....  | 28.97                  | 4.62                 |
| 26 05 29 00-0568                               | LF  |     | C14P, Polyvinyl Chloride (PVC) Coated Channel .....   | 30.60                  | 4.62                 |
| 26 05 29 00-0569                               |     |     | <b>Polymer Concrete Pads</b> <small>(26 05 29)</small>  |                        |                      |
| Note: Excludes excavation and backfill.        |     |     |   |                        |                      |
| 26 05 29 00-0570                               |     |     | <b>Polymer Concrete, Box Pads</b> <small>(26 05 29 00-0569)</small>                                     |                        |                      |
| 26 05 29 00-0571                               | EA  |     | 24" x 36", 18" Depth, Polymer Concrete, Box Pad .....   | 1,358.12               | 122.62               |
| 26 05 29 00-0572                               | EA  |     | 25" x 25", 24" Depth, Polymer Concrete, Box Pad .....   | 1,404.11               | 122.62               |
| 26 05 29 00-0573                               | EA  |     | 40" x 44", 15" Depth, Polymer Concrete, Box Pad .....   | 1,826.68               | 122.62               |
| 26 05 29 00-0574                               | EA  |     | 40" x 44", 24" Depth, Polymer Concrete, Box Pad .....   | 1,896.74               | 122.62               |
| 26 05 29 00-0575                               | EA  |     | 52" x 36", 18" Depth, Polymer Concrete, Box Pad .....   | 1,761.46               | 122.62               |
| 26 05 29 00-0576                               | EA  |     | 44" x 44", 32" Depth, Polymer Concrete, Box Pad .....   | 2,092.34               | 122.62               |
| 26 05 29 00-0577                               | EA  |     | 40" x 58", 24" Depth, Polymer Concrete, Box Pad .....   | 2,346.05               | 122.62               |
| 26 05 29 00-0578                               | EA  |     | 52" x 50", 18" Depth, Polymer Concrete, Box Pad .....   | 2,241.44               | 153.27               |
| 26 05 29 00-0579                               | EA  |     | 74" x 76", 36" Depth, Polymer Concrete, Box Pad .....   | 3,426.86               | 153.27               |
| 26 05 29 00-0580                               | EA  |     | 93" x 93", 36" Depth, Polymer Concrete, Box Pad .....   | 4,618.14               | 153.27               |
| 26 05 29 00-0581                               |     |     | <b>Polymer Concrete, Telecommunications Equipment Pads</b> <small>(26 05 29 00-0569)</small>            |                        |                      |
| 26 05 29 00-0582                               | EA  |     | 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 646.71                 | 63.23                |
| 26 05 29 00-0583                               | EA  |     | 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 772.33                 | 63.23                |
| 26 05 29 00-0584                               | EA  |     | 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 1,007.47               | 91.96                |
| 26 05 29 00-0585                               | EA  |     | 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 1,054.16               | 91.96                |
| 26 05 29 00-0586                               | EA  |     | 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 1,529.44               | 91.96                |
| 26 05 29 00-0587                               | EA  |     | 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 1,595.49               | 91.96                |
| 26 05 29 00-0588                               | EA  |     | 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 1,718.58               | 91.96                |
| 26 05 29 00-0589                               | EA  |     | 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 1,718.58               | 91.96                |
| 26 05 29 00-0590                               | EA  |     | 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 3,264.91               | 91.96                |
| 26 05 29 00-0591                               | EA  |     | 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad .....                           | 3,706.13               | 91.96                |
| 26 05 29 00-0592                               |     |     | <b>Polymer Concrete, Electrical Equipment Pads</b> <small>(26 05 29 00-0569)</small>                    |                        |                      |
| 26 05 29 00-0593                               | EA  |     | 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....                                   | 380.64                 | 63.23                |
| 26 05 29 00-0594                               | EA  |     | 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....                                   | 412.94                 | 63.23                |
| 26 05 29 00-0595                               | EA  |     | 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....                                   | 442.36                 | 63.23                |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 05 29 00-0596 | EA  |     | 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 540.07                 | 63.23                |
| 26 05 29 00-0597 | EA  |     | 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 496.47                 | 63.23                |
| 26 05 29 00-0598 | EA  |     | 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 517.01                 | 63.23                |
| 26 05 29 00-0599 | EA  |     | 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 570.29                 | 63.23                |
| 26 05 29 00-0600 | EA  |     | 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 601.36                 | 63.23                |
| 26 05 29 00-0601 | EA  |     | 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 705.14                 | 63.23                |
| 26 05 29 00-0602 | EA  |     | 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 876.09                 | 63.23                |
| 26 05 29 00-0603 | EA  |     | 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 1,300.46               | 91.96                |
| 26 05 29 00-0604 | EA  |     | 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 1,362.95               | 91.96                |
| 26 05 29 00-0605 | EA  |     | 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 1,382.66               | 91.96                |
| 26 05 29 00-0606 | EA  |     | 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 1,514.00               | 91.96                |
| 26 05 29 00-0607 | EA  |     | 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 3,270.84               | 91.96                |
| 26 05 29 00-0608 | EA  |     | 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad ..... | 3,859.29               | 91.96                |

**26 05 33 Raceway and Boxes for Electrical Systems (26 05)**

**26 05 33 13 Conduit for Electrical Systems (26 05 33)**

|                  |  |   |        |  |  |
|------------------|--|---|--------|--|--|
| 26 05 33 13-0001 | Conduit Assemblies With Wire (26 05 33 13)   | Note: Includes conduit, fittings and wire. Excludes hangers or supports.  |        |  |  |
| 26 05 33 13-0002 | Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)   | Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0599 for larger EMT conduit. |        |  |  |
| 26 05 33 13-0003 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,145.66  | 343.51 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 294.48  |        |  |  |
|                  | For 2 #12 THWN Conductor Instead Of THHN, Add  | 2.01  |        |  |  |
| 26 05 33 13-0004 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,250.06  | 373.03 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 319.79  |        |  |  |
|                  | For 3 #12 THWN Conductor Instead Of THHN, Add  | 3.01  |        |  |  |
| 26 05 33 13-0005 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,354.45  | 402.54 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 345.08  |        |  |  |
|                  | For 4 #12 THWN Conductor Instead Of THHN, Add  | 4.01  |        |  |  |
| 26 05 33 13-0006 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,207.98  | 358.27 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 307.13  |        |  |  |
|                  | For 2 #10 THWN Conductor Instead Of THHN, Add  | 3.01  |        |  |  |
| 26 05 33 13-0007 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,336.51  | 392.70 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 336.65  |        |  |  |
|                  | For 3 #10 THWN Conductor Instead Of THHN, Add  | 4.51  |        |  |  |
| 26 05 33 13-0008 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,465.04  | 427.14 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 366.17  |        |  |  |
|                  | For 4 #10 THWN Conductor Instead Of THHN, Add  | 6.02  |        |  |  |
| 26 05 33 13-0009 | CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....  | 1,347.04  | 387.78 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 332.43  |        |  |  |
|                  | For 2 #8 THWN Conductor Instead Of THHN, Add   | 5.25  |        |  |  |
| 26 05 33 13-0010 | CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,277.71  | 370.35 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 317.42  |        |  |  |
|                  | For 2 #12 THWN Conductor Instead Of THHN, Add  | 2.01  |        |  |  |
| 26 05 33 13-0011 | CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,382.10  | 399.87 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 342.72  |        |  |  |
|                  | For 3 #12 THWN Conductor Instead Of THHN, Add  | 3.01  |        |  |  |
| 26 05 33 13-0012 | CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... | 1,486.49  | 429.38 |  |  |
|                  | Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.   |   |        |  |  |
|                  | For Work In Restricted Working Space, Add  | 368.02  |        |  |  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST       | DEMOLITION<br>UNIT COST |
|--|---------------------------------|-------------------------|
| 26 05 33 13-0013 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 5 #12 THWN Conductor Instead Of THHN, Add</i> | 1,590.89<br><br>393.32<br>5.02  | 458.90                  |
| 26 05 33 13-0014 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #10 THWN Conductor Instead Of THHN, Add</i> | 1,340.02<br><br>330.07<br>3.01  | 385.11                  |
| 26 05 33 13-0015 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #10 THWN Conductor Instead Of THHN, Add</i> | 1,468.55<br><br>359.59<br>4.51  | 419.54                  |
| 26 05 33 13-0016 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 4 #10 THWN Conductor Instead Of THHN, Add</i> | 1,597.08<br><br>389.10<br>6.02  | 453.98                  |
| 26 05 33 13-0017 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 5 #10 THWN Conductor Instead Of THHN, Add</i> | 1,725.61<br><br>418.62<br>7.52  | 488.42                  |
| 26 05 33 13-0018 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>   | 1,658.04<br><br>393.32<br>7.87  | 458.90                  |
| 26 05 33 13-0019 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>   | 1,836.99<br><br>431.27<br>10.49 | 503.18                  |
| 26 05 33 13-0020 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>    | 1,654.27<br><br>380.67<br>8.67  | 444.14                  |
| 26 05 33 13-0021 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>    | 1,895.61<br><br>427.05<br>13.01 | 498.26                  |
| 26 05 33 13-0022 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>   | 1,462.66<br><br>341.71<br>2.01  | 398.60                  |
| 26 05 33 13-0023 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>   | 1,567.05<br><br>367.01<br>3.01  | 428.12                  |
| 26 05 33 13-0024 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i>   | 1,671.44<br><br>392.31          | 457.64                  |
| 26 05 33 13-0025 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>   | 1,775.83<br><br>417.61<br>5.02  | 487.15                  |
| 26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated<br>Grounding Conductor .....<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>   | 1,524.98<br><br>354.36<br>3.01  | 413.36                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #10 THWN Conductor Instead Of THHN, Add</i> | 1,653.50<br>383.87<br>4.51  | 447.80                  |
| 26 05 33 13-0028 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 4 #10 THWN Conductor Instead Of THHN, Add</i> | 1,782.02<br>413.39<br>6.02  | 482.24                  |
| 26 05 33 13-0029 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 5 #10 THWN Conductor Instead Of THHN, Add</i> | 1,910.55<br>442.91<br>7.52  | 516.67                  |
| 26 05 33 13-0030 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>   | 1,842.98<br>417.61<br>7.87  | 487.15                  |
| 26 05 33 13-0031 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>    | 2,080.57<br>451.34<br>13.01 | 526.51                  |
| 26 05 33 13-0032 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor<br>Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>    | 2,321.90<br>497.72<br>17.35 | 580.61                  |
| <b>26 05 33 13-0033 Rigid Galvanized Steel (RGS) Conduit Assemblies</b> <small>(26 05 33 13-0001)</small><br>Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0060 for larger RGS conduit.   |                             |                         |
| 26 05 33 13-0034 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>                                | 1,527.87<br>335.13<br>2.01  | 391.01                  |
| 26 05 33 13-0035 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>                                | 1,632.27<br>360.43<br>3.01  | 420.53                  |
| 26 05 33 13-0036 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>                                | 1,590.19<br>347.78<br>3.01  | 405.77                  |
| 26 05 33 13-0037 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>                                | 1,718.72<br>377.30<br>4.51  | 440.20                  |
| 26 05 33 13-0038 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>                                  | 1,729.24<br>373.08<br>5.25  | 435.29                  |
| 26 05 33 13-0039 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>                                | 1,684.21<br>357.40<br>2.01  | 417.02                  |
| 26 05 33 13-0040 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>                                | 1,788.61<br>382.70<br>3.01  | 446.53                  |
| 26 05 33 13-0041 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i>  | 1,893.00<br>407.99          | 476.04                  |
| 26 05 33 13-0042 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br><i>For Work In Restricted Working Space, Add</i><br><i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>                                | 1,746.53<br>370.04<br>3.01  | 431.78                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|-----------------------------|-------------------------|
| 26 05 33 13-0043 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #10 THWN Conductor Instead Of THHN, Add | 1,875.06<br>399.56<br>4.51  | 466.20                  |
| 26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 4 #10 THWN Conductor Instead Of THHN, Add | 2,003.58<br>429.08<br>6.02  | 500.64                  |
| 26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #8 THWN Conductor Instead Of THHN, Add   | 2,064.53<br>433.29<br>7.87  | 505.56                  |
| 26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 4 #8 THWN Conductor Instead Of THHN, Add   | 2,243.48<br>471.24<br>10.49 | 549.84                  |
| 26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 2 #6 THWN Conductor Instead Of THHN, Add    | 2,060.78<br>420.64<br>8.67  | 490.80                  |
| 26 05 33 13-0048 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #6 THWN Conductor Instead Of THHN, Add    | 2,302.12<br>467.03<br>13.01 | 544.92                  |
| 26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #12 THWN Conductor Instead Of THHN, Add   | 2,172.38<br>426.84<br>3.01  | 497.98                  |
| 26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add  | 2,276.77<br>452.14          | 527.49                  |
| 26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 5 #12 THWN Conductor Instead Of THHN, Add   | 2,381.16<br>477.44<br>5.02  | 557.01                  |
| 26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #10 THWN Conductor Instead Of THHN, Add   | 2,258.83<br>443.71<br>4.51  | 517.65                  |
| 26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 4 #10 THWN Conductor Instead Of THHN, Add   | 2,387.36<br>473.22<br>6.02  | 552.09                  |
| 26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 5 #10 THWN Conductor Instead Of THHN, Add   | 2,515.89<br>502.74<br>7.52  | 586.53                  |
| 26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #8 THWN Conductor Instead Of THHN, Add     | 2,448.31<br>477.44<br>7.87  | 557.01                  |
| 26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 3 #6 THWN Conductor Instead Of THHN, Add      | 2,685.90<br>511.17<br>13.01 | 596.36                  |
| 26 05 33 13-0057 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....<br>Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.<br>For Work In Restricted Working Space, Add<br>For 4 #6 THWN Conductor Instead Of THHN, Add      | 2,927.24<br>557.55<br>17.35 | 650.47                  |
| 26 05 33 13-0058 Conduit <sup>(26 05 33 13)</sup><br>Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.  |                             |                         |
| 26 05 33 13-0059 Conduit Installed Above Grade <sup>(26 05 33 13-0058)</sup><br>See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.   |                             |                         |
| 26 05 33 13-0060 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit <sup>(26 05 33 13-0059)</sup><br>Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.   |                             |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 33 13-0061 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling</b> <small>(26 05 33 13-0060)</small><br><i>Note: Includes field bending for conduit up to 1".</i> |                           |                         |
| 26 05 33 13-0062 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....   | 11.11                     | 3.10                    |
| <i>For &gt;250 To 500, Deduct</i>  | -0.17                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.64                     |                         |
| <i>For &gt;1,000, Deduct</i>   | -0.92                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>  | 0.77                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>   | 1.93                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>  | 1.16                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 0.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 1.55                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 1.93                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 2.71                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 3.09                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 3.87                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 4.25                      |                         |
| 26 05 33 13-0063 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....   | 13.17                     | 3.38                    |
| <i>For &gt;250 To 500, Deduct</i>  | -0.21                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.76                     |                         |
| <i>For &gt;1,000, Deduct</i>   | -1.09                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>  | 0.90                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>   | 2.25                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>  | 1.35                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 2.70                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 0.90                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 1.80                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 2.25                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 3.15                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 3.60                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 4.50                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 4.95                      |                         |
| 26 05 33 13-0064 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....   | 18.53                     | 3.94                    |
| <i>For &gt;250 To 500, Deduct</i>  | -0.32                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.09                     |                         |
| <i>For &gt;1,000, Deduct</i>   | -1.55                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>  | 1.21                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>   | 3.02                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>  | 1.81                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 3.62                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.21                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.42                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.02                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.23                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 4.83                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 6.04                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 6.64                      |                         |
| 26 05 33 13-0065 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....   | 21.39                     | 4.50                    |
| <i>For &gt;250 To 500, Deduct</i>  | -0.43                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.28                     |                         |
| <i>For &gt;1,000, Deduct</i>   | -1.82                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>  | 1.28                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>   | 3.20                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>  | 1.92                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 3.84                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.28                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.56                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.20                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.48                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 5.12                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 6.40                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 7.03                      |                         |
| 26 05 33 13-0066 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....   | 24.59                     | 5.06                    |
| <i>For &gt;250 To 500, Deduct</i>  | -0.53                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.49                     |                         |
| <i>For &gt;1,000, Deduct</i>   | -2.11                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>  | 1.41                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>   | 3.52                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>  | 2.11                      |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.41                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.81                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.52                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.92                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 5.62                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 7.03                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 7.73                      |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0067 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....     | 31.37                     | 6.18                    |
| For >250 To 500, Deduct  | -0.70                     |                         |
| For >500 To 1,000, Deduct  | -1.92                     |                         |
| For >1,000, Deduct   | -2.71                     |                         |
| For Installation In Metal Stud Wall, Add   | 1.73                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                                  | 4.32                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                       | 2.59                      |                         |
| For Work In Restricted Working Space, Add  | 5.18                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.46                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.32                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.05                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.91                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.64                      |                         |
| For Elevated Installation >40', Add  | 9.50                      |                         |
| 26 05 33 13-0068 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ..... | 46.82                     | 8.44                    |
| For >250 To 500, Deduct  | -1.17                     |                         |
| For >500 To 1,000, Deduct  | -2.92                     |                         |
| For >1,000, Deduct   | -4.10                     |                         |
| For Installation In Metal Stud Wall, Add   | 2.35                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                                  | 5.87                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                       | 3.52                      |                         |
| For Work In Restricted Working Space, Add  | 7.04                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.35                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.69                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.87                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.21                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.39                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.74                     |                         |
| For Elevated Installation >40', Add  | 12.91                     |                         |
| 26 05 33 13-0069 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....     | 61.33                     | 11.24                   |
| For >250 To 500, Deduct  | -1.49                     |                         |
| For >500 To 1,000, Deduct  | -3.81                     |                         |
| For >1,000, Deduct   | -5.34                     |                         |
| For Installation In Metal Stud Wall, Add   | 3.16                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                                  | 7.91                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                       | 4.74                      |                         |
| For Work In Restricted Working Space, Add  | 9.49                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.16                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.32                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.91                      |                         |
| For Elevated Installation >25' To 30', Add   | 11.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.65                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.81                     |                         |
| For Elevated Installation >40', Add  | 17.39                     |                         |
| 26 05 33 13-0070 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ..... | 73.78                     | 14.06                   |
| For >250 To 500, Deduct  | -1.81                     |                         |
| For >500 To 1,000, Deduct  | -4.60                     |                         |
| For >1,000, Deduct   | -6.44                     |                         |
| For Installation In Metal Stud Wall, Add   | 3.75                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                                  | 9.38                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                       | 5.63                      |                         |
| For Work In Restricted Working Space, Add  | 11.26                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.75                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.51                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.38                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 15.01                     |                         |
| For Elevated Installation >35' To 40', Add   | 18.77                     |                         |
| For Elevated Installation >40', Add  | 20.64                     |                         |
| 26 05 33 13-0071 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....     | 87.57                     | 16.86                   |
| For >250 To 500, Deduct  | -2.21                     |                         |
| For >500 To 1,000, Deduct  | -5.49                     |                         |
| For >1,000, Deduct   | -7.67                     |                         |
| For Installation In Metal Stud Wall, Add   | 4.33                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                                  | 10.82                     |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                       | 6.49                      |                         |
| For Work In Restricted Working Space, Add  | 12.99                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.33                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.66                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.82                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 17.32                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.65                     |                         |
| For Elevated Installation >40', Add  | 23.81                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0072    LF    5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....                            | 138.90                    | 21.36                   |
| <i>For &gt;250 To 500, Deduct</i>   | -4.27                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -9.08                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -12.55                    |                         |
| <i>For Installation In Metal Stud Wall, Add</i>   | 5.34                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | 13.35                     |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 8.01                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 16.02                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.34                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.69                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.71                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 29.38                     |                         |
| 26 05 33 13-0073    LF    6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....                            | 187.62                    | 26.98                   |
| <i>For &gt;250 To 500, Deduct</i>   | -6.01                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -12.38                    |                         |
| <i>For &gt;1,000, Deduct</i>  | -17.08                    |                         |
| <i>For Installation In Metal Stud Wall, Add</i>   | 6.75                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>  | 16.87                     |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 10.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 20.24                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.75                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.49                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 16.87                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 23.61                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 26.99                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 33.74                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 37.11                     |                         |
| <b>26 05 33 13-0074    Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| <i>See CSI section 26 05 33 13-2319 for conduit field bending.</i>  |                           |                         |
| 26 05 33 13-0075    EA    1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                         | 40.40                     | 13.92                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.47                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.49                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.98                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.73                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.22                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.96                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.45                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 19.20                     |                         |
| 26 05 33 13-0076    EA    3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                         | 50.64                     | 17.28                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.02                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.34                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.68                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.85                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.19                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 17.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 21.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 23.86                     |                         |
| 26 05 33 13-0077    EA    1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                           | 64.07                     | 21.22                   |
| <i>For Work In Restricted Working Space, Add</i>  | 15.87                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.29                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.58                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.23                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.52                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.46                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 29.10                     |                         |
| 26 05 33 13-0078    EA    1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                       | 80.53                     | 24.60                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.43                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.29                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.50                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.58                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 33.79                     |                         |
| 26 05 33 13-0079    EA    1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                       | 93.28                     | 28.25                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.16                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.05                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.63                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.68                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.21                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.26                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.79                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0080 | EA  | 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                                 | 108.86                 | 31.06                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 23.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.76                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 31.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 42.66                  |                      |
| 26 05 33 | 13-0081 | EA  | 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                             | 152.73                 | 38.79                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 29.09                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.70                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 33.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 38.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 48.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 53.33                  |                      |
| 26 05 33 | 13-0082 | EA  | 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                                 | 215.12                 | 52.85                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 39.63                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 52.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 72.66                  |                      |
| 26 05 33 | 13-0083 | EA  | 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                             | 278.79                 | 59.59                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 44.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 29.80                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 37.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 52.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 59.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 74.50                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 81.95                  |                      |
| 26 05 33 | 13-0084 | EA  | 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                                 | 343.49                 | 77.59                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 58.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 19.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 38.78                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 48.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 67.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 77.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 96.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 106.66                 |                      |
| 26 05 33 | 13-0085 | EA  | 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                                 | 561.67                 | 126.49               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 94.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 31.63                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 79.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 110.69                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 126.50                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 158.13                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 173.94                 |                      |
| 26 05 33 | 13-0086 | EA  | 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....                                 | 844.31                 | 190.02               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 142.51                 |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 47.50                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 95.01                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 118.76                 |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 166.26                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 190.01                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 237.52                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 261.27                 |                      |
| 26 05 33 | 13-0087 |     | <b>Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                        |                      |
|          |         |     | See CSI section 26 05 33 13-2319 for conduit field bending.   |                        |                      |
| 26 05 33 | 13-0088 | EA  | 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....                               | 40.40                  | 13.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.49                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.98                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.45                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.20                  |                      |
| 26 05 33 | 13-0089 | EA  | 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....                               | 50.64                  | 17.28                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 13.02                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.34                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 21.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 23.86                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0090 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....     | 64.07                     | 21.22                   |
| <i>For Work In Restricted Working Space, Add</i>  | 15.87                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.29                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.58                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.23                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.52                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.46                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 29.10                     |                         |
| 26 05 33 13-0091 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow ..... | 80.53                     | 24.60                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.43                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.29                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.50                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.58                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 33.79                     |                         |
| 26 05 33 13-0092 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow ..... | 93.28                     | 28.25                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.16                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.05                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.63                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.68                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.21                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.26                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.79                     |                         |
| 26 05 33 13-0093 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....     | 108.86                    | 31.06                   |
| <i>For Work In Restricted Working Space, Add</i>  | 23.27                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.76                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.51                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.39                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.15                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 31.03                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.79                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 42.66                     |                         |
| 26 05 33 13-0094 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow ..... | 150.47                    | 38.79                   |
| <i>For Work In Restricted Working Space, Add</i>  | 29.09                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.70                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.39                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.24                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 33.94                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 38.79                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 48.49                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 53.33                     |                         |
| 26 05 33 13-0095 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....     | 206.30                    | 52.85                   |
| <i>For Work In Restricted Working Space, Add</i>  | 39.63                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.21                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.42                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.03                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.24                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 52.84                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.05                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 72.66                     |                         |
| 26 05 33 13-0096 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow ..... | 266.39                    | 59.59                   |
| <i>For Work In Restricted Working Space, Add</i>  | 44.70                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.90                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 29.80                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 37.25                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 52.15                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 59.60                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 74.50                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 81.95                     |                         |
| 26 05 33 13-0097 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....     | 327.00                    | 77.59                   |
| <i>For Work In Restricted Working Space, Add</i>  | 58.18                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 19.39                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 38.78                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 48.48                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 67.87                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 77.57                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 96.96                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 106.66                    |                         |
| 26 05 33 13-0098 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....     | 561.67                    | 126.49                  |
| <i>For Work In Restricted Working Space, Add</i>  | 94.88                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 31.63                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 63.25                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 79.06                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 110.69                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 126.50                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 158.13                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 173.94                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0099 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....                     | 844.31                    | 190.02                  |
| For Work In Restricted Working Space, Add   | 142.51                    |                         |
| For Elevated Installation >10' To 15', Add  | 47.50                     |                         |
| For Elevated Installation >15' To 20', Add  | 95.01                     |                         |
| For Elevated Installation >20' To 25', Add  | 118.76                    |                         |
| For Elevated Installation >25' To 30', Add  | 166.26                    |                         |
| For Elevated Installation >30' To 35', Add  | 190.01                    |                         |
| For Elevated Installation >35' To 40', Add  | 237.52                    |                         |
| For Elevated Installation >40', Add   | 261.27                    |                         |
| <b>26 05 33 13-0100 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.   |                           |                         |
| 26 05 33 13-0101 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                              | 96.01                     | 34.72                   |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| 26 05 33 13-0102 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                          | 110.73                    | 40.20                   |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| 26 05 33 13-0103 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                          | 127.70                    | 45.68                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| 26 05 33 13-0104 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                              | 143.31                    | 50.25                   |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| <b>26 05 33 13-0105 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.   |                           |                         |
| 26 05 33 13-0106 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....                              | 102.90                    | 34.72                   |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| 26 05 33 13-0107 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....                          | 119.59                    | 40.20                   |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| 26 05 33 13-0108 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....                          | 131.74                    | 45.68                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0109 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....                | 147.82                    | 50.25                   |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| 26 05 33 13-0110 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....            | 194.76                    | 63.04                   |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.04                     |                         |
| For Elevated Installation >40', Add  | 69.34                     |                         |
| 26 05 33 13-0111 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....                | 262.60                    | 85.87                   |
| For Work In Restricted Working Space, Add  | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add   | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.88                     |                         |
| For Elevated Installation >40', Add  | 94.46                     |                         |
| <b>26 05 33 13-0112 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow</b> (26 05 33 13-0060) |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.                                    |                           |                         |
| 26 05 33 13-0113 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....                | 103.23                    | 34.72                   |
| For Work In Restricted Working Space, Add  | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add   | 34.72                     |                         |
| For Elevated Installation >40', Add  | 38.19                     |                         |
| 26 05 33 13-0114 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....            | 118.71                    | 40.20                   |
| For Work In Restricted Working Space, Add  | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 40.20                     |                         |
| For Elevated Installation >40', Add  | 44.21                     |                         |
| 26 05 33 13-0115 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....            | 136.10                    | 45.68                   |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| 26 05 33 13-0116 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....                | 157.58                    | 50.25                   |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| 26 05 33 13-0117 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....            | 203.86                    | 63.04                   |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.04                     |                         |
| For Elevated Installation >40', Add  | 69.34                     |                         |
| 26 05 33 13-0118 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....                | 269.93                    | 85.87                   |
| For Work In Restricted Working Space, Add  | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add   | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.88                     |                         |
| For Elevated Installation >40', Add  | 94.46                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0119 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....                           | 332.46                    | 96.84                   |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| 26 05 33 13-0120 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....                               | 407.23                    | 126.07                  |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.26                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.69                    |                         |
| <b>26 05 33 13-0121 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.   |                           |                         |
| 26 05 33 13-0122 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                               | 114.22                    | 34.72                   |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| 26 05 33 13-0123 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                           | 129.50                    | 40.20                   |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| 26 05 33 13-0124 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                           | 144.18                    | 45.68                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| 26 05 33 13-0125 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                               | 169.49                    | 50.25                   |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| 26 05 33 13-0126 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                           | 220.10                    | 63.04                   |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| 26 05 33 13-0127 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                               | 295.39                    | 85.87                   |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| 26 05 33 13-0128 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....                           | 357.21                    | 96.84                   |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0129 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....             | 426.96                    | 126.07                  |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.26                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.69                    |                         |
| <br>26 05 33 13-0130 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0060) |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.                                 |                           |                         |
| 26 05 33 13-0131 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....             | 113.55                    | 34.72                   |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| 26 05 33 13-0132 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....         | 137.51                    | 40.20                   |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| 26 05 33 13-0133 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....         | 152.86                    | 45.68                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| 26 05 33 13-0134 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....             | 180.83                    | 50.25                   |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| 26 05 33 13-0135 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....         | 235.67                    | 63.04                   |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| 26 05 33 13-0136 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....             | 315.49                    | 85.87                   |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| 26 05 33 13-0137 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....         | 381.67                    | 96.84                   |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| 26 05 33 13-0138 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....             | 463.17                    | 126.07                  |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.26                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.69                    |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0139 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                              | 682.14                    | 205.55                  |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| <b>26 05 33 13-0140 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.   |                           |                         |
| 26 05 33 13-0141 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                              | 119.42                    | 34.72                   |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| 26 05 33 13-0142 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                          | 141.46                    | 40.20                   |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| 26 05 33 13-0143 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                          | 168.07                    | 45.68                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| 26 05 33 13-0144 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                              | 189.69                    | 50.25                   |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| 26 05 33 13-0145 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                          | 254.15                    | 63.04                   |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| 26 05 33 13-0146 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                              | 332.68                    | 85.87                   |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| 26 05 33 13-0147 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                          | 413.27                    | 96.84                   |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| 26 05 33 13-0148 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                              | 480.21                    | 126.07                  |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.26                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.69                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0149 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....                | 821.13                    | 205.55                  |
| For Work In Restricted Working Space, Add  | 123.33                    |                         |
| For Elevated Installation >10' To 15', Add   | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add   | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add   | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add   | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add   | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add   | 205.56                    |                         |
| For Elevated Installation >40', Add  | 226.11                    |                         |
| 26 05 33 13-0150 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....                | 1,068.04                  | 308.79                  |
| For Work In Restricted Working Space, Add  | 185.27                    |                         |
| For Elevated Installation >10' To 15', Add   | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add   | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add   | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add   | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add   | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add   | 308.79                    |                         |
| For Elevated Installation >40', Add  | 339.67                    |                         |
| <b>26 05 33 13-0151 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow</b> (26 05 33 13-0060) |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.                                    |                           |                         |
| 26 05 33 13-0152 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....                | 128.02                    | 34.72                   |
| For Work In Restricted Working Space, Add  | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add   | 34.72                     |                         |
| For Elevated Installation >40', Add  | 38.19                     |                         |
| 26 05 33 13-0153 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....            | 151.97                    | 40.20                   |
| For Work In Restricted Working Space, Add  | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 40.20                     |                         |
| For Elevated Installation >40', Add  | 44.22                     |                         |
| 26 05 33 13-0154 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....            | 179.23                    | 45.68                   |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| 26 05 33 13-0155 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....                | 201.36                    | 50.25                   |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| 26 05 33 13-0156 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....            | 268.27                    | 63.04                   |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.04                     |                         |
| For Elevated Installation >40', Add  | 69.34                     |                         |
| 26 05 33 13-0157 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....                | 357.87                    | 85.87                   |
| For Work In Restricted Working Space, Add  | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add   | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.88                     |                         |
| For Elevated Installation >40', Add  | 94.46                     |                         |
| 26 05 33 13-0158 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....            | 438.53                    | 96.84                   |
| For Work In Restricted Working Space, Add  | 58.10                     |                         |
| For Elevated Installation >10' To 15', Add   | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add   | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add   | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 96.84                     |                         |
| For Elevated Installation >40', Add  | 106.52                    |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0159 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                              | 552.89                    | 126.07                  |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.26                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.69                    |                         |
| 26 05 33 13-0160 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                              | 921.40                    | 205.55                  |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| 26 05 33 13-0161 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                              | 1,154.86                  | 308.79                  |
| For Work In Restricted Working Space, Add   | 185.27                    |                         |
| For Elevated Installation >10' To 15', Add  | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add  | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add  | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add  | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add  | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add  | 308.79                    |                         |
| For Elevated Installation >40', Add   | 339.67                    |                         |
| <b>26 05 33 13-0162 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.   |                           |                         |
| 26 05 33 13-0163 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                              | 135.18                    | 34.72                   |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| 26 05 33 13-0164 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                          | 160.06                    | 40.20                   |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.22                     |                         |
| 26 05 33 13-0165 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                          | 186.29                    | 45.68                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| 26 05 33 13-0166 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                              | 223.17                    | 50.25                   |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| 26 05 33 13-0167 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                          | 294.33                    | 63.04                   |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| 26 05 33 13-0168 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                              | 383.25                    | 85.87                   |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0169 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                               | 470.29                    | 96.84                   |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| 26 05 33 13-0170 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                   | 591.47                    | 126.07                  |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.26                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.69                    |                         |
| 26 05 33 13-0171 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                   | 952.80                    | 205.55                  |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| 26 05 33 13-0172 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                   | 1,172.43                  | 308.79                  |
| For Work In Restricted Working Space, Add   | 185.27                    |                         |
| For Elevated Installation >10' To 15', Add  | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add  | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add  | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add  | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add  | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add  | 308.79                    |                         |
| For Elevated Installation >40', Add   | 339.67                    |                         |
| <b>26 05 33 13-0173 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0174 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....                             | 18.31                     | 8.96                    |
| For Work In Restricted Working Space, Add   | 5.38                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.79                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.58                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.48                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.27                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.17                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.96                      |                         |
| For Elevated Installation >40', Add   | 9.86                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 5.38                      |                         |
| 26 05 33 13-0175 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....                             | 19.63                     | 9.56                    |
| For Work In Restricted Working Space, Add   | 5.74                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.91                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.82                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.78                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.69                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.65                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.56                      |                         |
| For Elevated Installation >40', Add   | 10.52                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 5.74                      |                         |
| 26 05 33 13-0176 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....                               | 22.28                     | 10.75                   |
| For Work In Restricted Working Space, Add   | 6.45                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.15                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.30                      |                         |
| For Elevated Installation >20' To 25', Add  | 5.38                      |                         |
| For Elevated Installation >25' To 30', Add  | 7.53                      |                         |
| For Elevated Installation >30' To 35', Add  | 8.60                      |                         |
| For Elevated Installation >35' To 40', Add  | 10.75                     |                         |
| For Elevated Installation >40', Add   | 11.83                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 6.45                      |                         |
| 26 05 33 13-0177 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....                           | 25.02                     | 11.94                   |
| For Work In Restricted Working Space, Add   | 7.17                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add  | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add  | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add  | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add  | 11.95                     |                         |
| For Elevated Installation >40', Add   | 13.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 7.17                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0178 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing ..... | 31.41                     | 14.93                   |
| For Work In Restricted Working Space, Add  | 8.96                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.99                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.97                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.47                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.45                     |                         |
| For Elevated Installation >30' To 35', Add   | 11.95                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.94                     |                         |
| For Elevated Installation >40', Add  | 16.43                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.96                      |                         |
| 26 05 33 13-0179 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....     | 38.69                     | 17.92                   |
| For Work In Restricted Working Space, Add  | 10.75                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.58                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.17                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.96                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.54                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.34                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.92                     |                         |
| For Elevated Installation >40', Add  | 19.71                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 10.75                     |                         |
| 26 05 33 13-0180 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing ..... | 48.11                     | 20.91                   |
| For Work In Restricted Working Space, Add  | 12.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.18                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.36                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.45                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.63                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.72                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.91                     |                         |
| For Elevated Installation >40', Add  | 23.00                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.54                     |                         |
| 26 05 33 13-0181 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....     | 54.43                     | 23.90                   |
| For Work In Restricted Working Space, Add  | 14.34                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.90                     |                         |
| For Elevated Installation >40', Add  | 26.28                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 14.34                     |                         |
| 26 05 33 13-0182 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing ..... | 62.98                     | 22.49                   |
| For Work In Restricted Working Space, Add  | 16.13                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.75                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.44                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 21.50                     |                         |
| For Elevated Installation >35' To 40', Add   | 26.88                     |                         |
| For Elevated Installation >40', Add  | 29.57                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 16.13                     |                         |
| 26 05 33 13-0183 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....     | 69.89                     | 29.87                   |
| For Work In Restricted Working Space, Add  | 17.92                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.97                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.95                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 20.91                     |                         |
| For Elevated Installation >30' To 35', Add   | 23.89                     |                         |
| For Elevated Installation >35' To 40', Add   | 29.87                     |                         |
| For Elevated Installation >40', Add  | 32.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 17.92                     |                         |
| 26 05 33 13-0184 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....     | 83.03                     | 32.86                   |
| For Work In Restricted Working Space, Add  | 19.71                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.14                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.43                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.00                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.28                     |                         |
| For Elevated Installation >35' To 40', Add   | 32.86                     |                         |
| For Elevated Installation >40', Add  | 36.14                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 19.71                     |                         |
| 26 05 33 13-0185 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....     | 115.55                    | 35.84                   |
| For Work In Restricted Working Space, Add  | 21.50                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.17                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.34                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.92                     |                         |
| For Elevated Installation >25' To 30', Add   | 25.09                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.67                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.84                     |                         |
| For Elevated Installation >40', Add  | 39.42                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 21.50                     |                         |

26 05 33 13-0186 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0060)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0187 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....              | 22.04                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0188 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing .....              | 23.90                     | 11.24                   |
| For Work In Restricted Working Space, Add  | 6.75                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.25                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.50                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.62                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.87                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.00                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.25                     |                         |
| For Elevated Installation >40', Add  | 12.37                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.75                      |                         |
| 26 05 33 13-0189 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing .....                | 27.74                     | 12.65                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 7.59                      |                         |
| 26 05 33 13-0190 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing .....            | 31.13                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.43                      |                         |
| 26 05 33 13-0191 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....            | 39.60                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |
| 26 05 33 13-0192 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing .....                | 46.96                     | 21.08                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 12.65                     |                         |
| 26 05 33 13-0193 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....            | 64.27                     | 24.60                   |
| For Work In Restricted Working Space, Add  | 14.76                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.92                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.84                      |                         |
| For Elevated Installation >20' To 25', Add   | 12.30                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 24.60                     |                         |
| For Elevated Installation >40', Add  | 27.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 14.76                     |                         |
| 26 05 33 13-0194 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing .....                | 76.01                     | 28.11                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.11                     |                         |
| For Elevated Installation >40', Add  | 30.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 16.87                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0195 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....                                     | 109.46                    | 31.62                   |
| For Work In Restricted Working Space, Add  | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add   | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.63                     |                         |
| For Elevated Installation >40', Add  | 34.79                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 18.98                     |                         |
| 26 05 33 13-0196 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing.....   | 145.22                    | 35.14                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 21.08                     |                         |
| 26 05 33 13-0197 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing.....   | 190.98                    | 38.65                   |
| For Work In Restricted Working Space, Add  | 23.19                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 15.46                     |                         |
| For Elevated Installation >20' To 25', Add   | 19.33                     |                         |
| For Elevated Installation >25' To 30', Add   | 27.06                     |                         |
| For Elevated Installation >30' To 35', Add   | 30.92                     |                         |
| For Elevated Installation >35' To 40', Add   | 38.65                     |                         |
| For Elevated Installation >40', Add  | 42.52                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 23.19                     |                         |
| 26 05 33 13-0198 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing.....   | 276.19                    | 42.16                   |
| For Work In Restricted Working Space, Add  | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add   | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add   | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.17                     |                         |
| For Elevated Installation >40', Add  | 46.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 25.30                     |                         |
| <b>26 05 33 13-0199 Rigid Galvanized Steel (RGS) Steel Insulated Bushing</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0200 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....                             | 23.18                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 6.32                      |                         |
| 26 05 33 13-0201 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....                             | 25.61                     | 11.24                   |
| For Work In Restricted Working Space, Add  | 6.75                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.25                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.50                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.62                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.87                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.00                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.25                     |                         |
| For Elevated Installation >40', Add  | 12.37                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 6.75                      |                         |
| 26 05 33 13-0202 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....                               | 29.90                     | 12.65                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 7.59                      |                         |
| 26 05 33 13-0203 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....                           | 34.77                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 8.43                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0204 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....  | 43.40                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |
| 26 05 33 13-0205 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....       | 53.69                     | 21.08                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 12.65                     |                         |
| 26 05 33 13-0206 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....  | 73.40                     | 24.60                   |
| For Work In Restricted Working Space, Add  | 14.76                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.92                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.84                      |                         |
| For Elevated Installation >20' To 25', Add   | 12.30                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 24.60                     |                         |
| For Elevated Installation >40', Add  | 27.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 14.76                     |                         |
| 26 05 33 13-0207 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....       | 86.71                     | 28.11                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.11                     |                         |
| For Elevated Installation >40', Add  | 30.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 16.87                     |                         |
| 26 05 33 13-0208 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....  | 111.45                    | 31.62                   |
| For Work In Restricted Working Space, Add  | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add   | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.63                     |                         |
| For Elevated Installation >40', Add  | 34.79                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 18.98                     |                         |
| 26 05 33 13-0209 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....       | 154.13                    | 35.14                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 21.08                     |                         |
| 26 05 33 13-0210 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....       | 200.69                    | 38.65                   |
| For Work In Restricted Working Space, Add  | 23.19                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 15.46                     |                         |
| For Elevated Installation >20' To 25', Add   | 19.33                     |                         |
| For Elevated Installation >25' To 30', Add   | 27.06                     |                         |
| For Elevated Installation >30' To 35', Add   | 30.92                     |                         |
| For Elevated Installation >35' To 40', Add   | 38.65                     |                         |
| For Elevated Installation >40', Add  | 42.52                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 23.19                     |                         |
| 26 05 33 13-0211 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....       | 279.62                    | 42.16                   |
| For Work In Restricted Working Space, Add  | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add   | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add   | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.17                     |                         |
| For Elevated Installation >40', Add  | 46.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 25.30                     |                         |

26 05 33 13-0212 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0060)



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0213 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....   | 33.77                     | 12.65                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 7.59                      |                         |
| 26 05 33 13-0214 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....   | 37.78                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 8.43                      |                         |
| 26 05 33 13-0215 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....     | 42.98                     | 15.46                   |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 9.28                      |                         |
| 26 05 33 13-0216 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing..... | 50.74                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 10.54                     |                         |
| 26 05 33 13-0217 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing..... | 61.57                     | 21.78                   |
| For Work In Restricted Working Space, Add  | 13.07                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.36                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.71                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.89                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.25                     |                         |
| For Elevated Installation >30' To 35', Add   | 17.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.79                     |                         |
| For Elevated Installation >40', Add  | 23.96                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 13.07                     |                         |
| 26 05 33 13-0218 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....     | 77.01                     | 26.00                   |
| For Work In Restricted Working Space, Add  | 15.60                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.20                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.40                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.00                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.20                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.80                     |                         |
| For Elevated Installation >35' To 40', Add   | 26.00                     |                         |
| For Elevated Installation >40', Add  | 28.60                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 15.60                     |                         |
| 26 05 33 13-0219 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing..... | 101.30                    | 30.22                   |
| For Work In Restricted Working Space, Add  | 18.13                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.09                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.18                     |                         |
| For Elevated Installation >35' To 40', Add   | 30.22                     |                         |
| For Elevated Installation >40', Add  | 33.24                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 18.13                     |                         |
| 26 05 33 13-0220 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....     | 112.42                    | 35.14                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 21.08                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0221 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....                       | 126.98                    | 39.36                   |
| For Work In Restricted Working Space, Add  | 23.61                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.87                      |                         |
| For Elevated Installation >15' To 20', Add   | 15.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 19.68                     |                         |
| For Elevated Installation >25' To 30', Add   | 27.55                     |                         |
| For Elevated Installation >30' To 35', Add   | 31.48                     |                         |
| For Elevated Installation >35' To 40', Add   | 39.36                     |                         |
| For Elevated Installation >40', Add  | 43.29                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 23.61                     |                         |
| 26 05 33 13-0222 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....                           | 161.03                    | 43.57                   |
| For Work In Restricted Working Space, Add  | 26.14                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.71                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.43                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.50                     |                         |
| For Elevated Installation >30' To 35', Add   | 34.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.57                     |                         |
| For Elevated Installation >40', Add  | 47.93                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 26.14                     |                         |
| 26 05 33 13-0223 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....                           | 222.76                    | 47.79                   |
| For Work In Restricted Working Space, Add  | 28.67                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.56                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.11                     |                         |
| For Elevated Installation >20' To 25', Add   | 23.89                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.45                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.23                     |                         |
| For Elevated Installation >35' To 40', Add   | 47.79                     |                         |
| For Elevated Installation >40', Add  | 52.56                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 28.67                     |                         |
| 26 05 33 13-0224 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....                           | 301.47                    | 52.71                   |
| For Work In Restricted Working Space, Add  | 31.62                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.54                     |                         |
| For Elevated Installation >15' To 20', Add   | 21.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 26.35                     |                         |
| For Elevated Installation >25' To 30', Add   | 36.89                     |                         |
| For Elevated Installation >30' To 35', Add   | 42.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 52.71                     |                         |
| For Elevated Installation >40', Add  | 57.98                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 31.62                     |                         |
| <b>26 05 33 13-0225 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw <small>(26 05 33 13-0060)</small></b> |                           |                         |
| 26 05 33 13-0226 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....                              | 21.46                     | 6.46                    |
| For Work In Restricted Working Space, Add  | 4.81                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.60                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.21                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.01                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.61                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.42                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.02                      |                         |
| For Elevated Installation >40', Add  | 8.82                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 4.81                      |                         |
| 26 05 33 13-0227 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....                              | 26.10                     | 7.44                    |
| For Work In Restricted Working Space, Add  | 5.57                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.86                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.71                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.64                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.50                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.29                      |                         |
| For Elevated Installation >40', Add  | 10.21                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 5.57                      |                         |
| 26 05 33 13-0228 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....                                | 34.40                     | 9.00                    |
| For Work In Restricted Working Space, Add  | 6.72                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.24                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.60                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.96                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.20                     |                         |
| For Elevated Installation >40', Add  | 12.31                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 6.72                      |                         |
| 26 05 33 13-0229 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....                 | 51.39                     | 11.10                   |
| For Work In Restricted Working Space, Add  | 8.36                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.79                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.57                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.96                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.75                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.14                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.93                     |                         |
| For Elevated Installation >40', Add  | 15.32                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 8.36                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0230 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw..... | 69.61                     | 14.90                   |
| For Work In Restricted Working Space, Add  | 11.18                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.46                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.32                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.05                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.91                     |                         |
| For Elevated Installation >35' To 40', Add   | 18.64                     |                         |
| For Elevated Installation >40', Add  | 20.50                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 11.18                     |                         |
| 26 05 33 13-0231 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....     | 119.24                    | 22.34                   |
| For Work In Restricted Working Space, Add  | 16.75                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.58                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.17                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.96                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.54                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.34                     |                         |
| For Elevated Installation >35' To 40', Add   | 27.92                     |                         |
| For Elevated Installation >40', Add  | 30.71                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 16.75                     |                         |
| 26 05 33 13-0232 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw..... | 218.73                    | 24.74                   |
| For Work In Restricted Working Space, Add  | 18.55                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.18                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.37                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.46                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.64                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 30.92                     |                         |
| For Elevated Installation >40', Add  | 34.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 18.55                     |                         |
| 26 05 33 13-0233 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....     | 260.60                    | 29.94                   |
| For Work In Restricted Working Space, Add  | 22.47                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.49                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.98                     |                         |
| For Elevated Installation >20' To 25', Add   | 18.73                     |                         |
| For Elevated Installation >25' To 30', Add   | 26.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 29.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 37.45                     |                         |
| For Elevated Installation >40', Add  | 41.20                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 22.47                     |                         |
| 26 05 33 13-0234 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw..... | 353.11                    | 37.53                   |
| For Work In Restricted Working Space, Add  | 28.13                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.75                     |                         |
| For Elevated Installation >20' To 25', Add   | 23.44                     |                         |
| For Elevated Installation >25' To 30', Add   | 32.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 37.51                     |                         |
| For Elevated Installation >35' To 40', Add   | 46.89                     |                         |
| For Elevated Installation >40', Add  | 51.57                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 28.13                     |                         |
| 26 05 33 13-0235 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....     | 413.42                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 33.74                     |                         |
| 26 05 33 13-0236 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....     | 733.29                    | 50.04                   |
| For Work In Restricted Working Space, Add  | 37.49                     |                         |
| For Elevated Installation >10' To 15', Add   | 12.50                     |                         |
| For Elevated Installation >15' To 20', Add   | 24.99                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.24                     |                         |
| For Elevated Installation >25' To 30', Add   | 43.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 49.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 62.48                     |                         |
| For Elevated Installation >40', Add  | 68.72                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 37.49                     |                         |
| 26 05 33 13-0237 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....     | 876.93                    | 56.22                   |
| For Work In Restricted Working Space, Add  | 42.16                     |                         |
| For Elevated Installation >10' To 15', Add   | 14.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 28.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 35.13                     |                         |
| For Elevated Installation >25' To 30', Add   | 49.18                     |                         |
| For Elevated Installation >30' To 35', Add   | 56.21                     |                         |
| For Elevated Installation >35' To 40', Add   | 70.26                     |                         |
| For Elevated Installation >40', Add  | 77.29                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add               | 42.16                     |                         |

26 05 33 13-0238 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0060)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0239 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....           | 20.04                     | 9.14                    |
| For Work In Restricted Working Space, Add  | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.65                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.39                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.14                      |                         |
| For Elevated Installation >40', Add  | 10.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48                      |                         |
| 26 05 33 13-0240 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....           | 23.08                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0241 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 29.49                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |
| 26 05 33 13-0242 EA 1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 34.46                     | 15.46                   |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 9.28                      |                         |
| 26 05 33 13-0243 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 39.33                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.78                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.05                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.32                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |
| 26 05 33 13-0244 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....       | 20.19                     | 9.14                    |
| For Work In Restricted Working Space, Add  | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.65                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.39                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.14                      |                         |
| For Elevated Installation >40', Add  | 10.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48                      |                         |
| 26 05 33 13-0245 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....       | 23.30                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0246 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 29.73                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0247 | EA  | 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....                                | 34.80                  | 15.46                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.28                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.09                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.18                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 17.01                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.28                   |                      |
| 26 05 33 | 13-0248 | EA  | 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....                                | 39.87                  | 17.57                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.78                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.32                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54                  |                      |
| 26 05 33 | 13-0249 | EA  | 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....                                    | 45.09                  | 19.68                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 11.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.87                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 13.78                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 15.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 21.65                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11.81                  |                      |
| 26 05 33 | 13-0250 | EA  | 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....                                      | 20.34                  | 9.14                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.83                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.65                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 6.39                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 7.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 10.05                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.48                   |                      |
| 26 05 33 | 13-0251 | EA  | 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....                                      | 23.50                  | 10.54                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 6.32                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.11                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.27                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 11.59                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.32                   |                      |
| 26 05 33 | 13-0252 | EA  | 1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....  | 30.08                  | 13.36                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.01                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.67                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.34                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.35                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 14.69                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.01                   |                      |
| 26 05 33 | 13-0253 | EA  | 1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....                                    | 35.11                  | 15.46                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.28                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.09                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.18                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 17.01                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.28                   |                      |
| 26 05 33 | 13-0254 | EA  | 1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....                                    | 40.23                  | 17.57                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.78                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.32                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0255 EA 2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 45.97                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 11.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.87                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.84                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.77                     |                         |
| For Elevated Installation >30' To 35', Add   | 15.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 19.68                     |                         |
| For Elevated Installation >40', Add  | 21.64                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.81                     |                         |
| 26 05 33 13-0256 EA 2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 61.47                     | 23.90                   |
| For Work In Restricted Working Space, Add  | 14.34                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.90                     |                         |
| For Elevated Installation >40', Add  | 26.28                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 14.34                     |                         |
| 26 05 33 13-0257 EA 3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 82.86                     | 33.03                   |
| For Work In Restricted Working Space, Add  | 19.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.51                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.03                     |                         |
| For Elevated Installation >40', Add  | 36.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 19.82                     |                         |
| 26 05 33 13-0258 EA 1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....       | 20.54                     | 9.14                    |
| For Work In Restricted Working Space, Add  | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.65                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.39                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.14                      |                         |
| For Elevated Installation >40', Add  | 10.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48                      |                         |
| 26 05 33 13-0259 EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....       | 23.60                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0260 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 30.53                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |
| 26 05 33 13-0261 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....     | 35.68                     | 15.46                   |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 9.28                      |                         |
| 26 05 33 13-0262 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....     | 40.99                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.78                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.05                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.32                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0263 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple.....        | 46.89                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 11.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.87                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.84                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.77                     |                         |
| For Elevated Installation >30' To 35', Add   | 15.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 19.68                     |                         |
| For Elevated Installation >40', Add  | 21.64                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.81                     |                         |
| 26 05 33 13-0264 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....     | 63.96                     | 23.90                   |
| For Work In Restricted Working Space, Add  | 14.34                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.90                     |                         |
| For Elevated Installation >40', Add  | 26.28                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 14.34                     |                         |
| 26 05 33 13-0265 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 85.02                     | 33.03                   |
| For Work In Restricted Working Space, Add  | 19.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.51                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.03                     |                         |
| For Elevated Installation >40', Add  | 36.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 19.82                     |                         |
| 26 05 33 13-0266 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....           | 20.73                     | 9.14                    |
| For Work In Restricted Working Space, Add  | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.65                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.39                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.14                      |                         |
| For Elevated Installation >40', Add  | 10.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48                      |                         |
| 26 05 33 13-0267 EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....           | 23.95                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0268 EA 1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 30.81                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |
| 26 05 33 13-0269 EA 1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 35.96                     | 15.46                   |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 9.28                      |                         |
| 26 05 33 13-0270 EA 1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 41.51                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.78                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.05                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.32                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0271 EA 2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 47.68                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 11.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.87                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.84                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.77                     |                         |
| For Elevated Installation >30' To 35', Add   | 15.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 19.68                     |                         |
| For Elevated Installation >40', Add  | 21.64                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.81                     |                         |
| 26 05 33 13-0272 EA 2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 64.72                     | 23.90                   |
| For Work In Restricted Working Space, Add  | 14.34                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.90                     |                         |
| For Elevated Installation >40', Add  | 26.28                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 14.34                     |                         |
| 26 05 33 13-0273 EA 3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 86.62                     | 33.03                   |
| For Work In Restricted Working Space, Add  | 19.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.51                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.03                     |                         |
| For Elevated Installation >40', Add  | 36.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 19.82                     |                         |
| 26 05 33 13-0274 EA 3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 99.52                     | 37.24                   |
| For Work In Restricted Working Space, Add  | 22.35                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.45                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.90                     |                         |
| For Elevated Installation >20' To 25', Add   | 18.62                     |                         |
| For Elevated Installation >25' To 30', Add   | 26.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 29.80                     |                         |
| For Elevated Installation >35' To 40', Add   | 37.25                     |                         |
| For Elevated Installation >40', Add  | 40.97                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 22.35                     |                         |
| 26 05 33 13-0275 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 125.07                    | 48.49                   |
| For Work In Restricted Working Space, Add  | 29.09                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.70                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.39                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.24                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.94                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.79                     |                         |
| For Elevated Installation >35' To 40', Add   | 48.49                     |                         |
| For Elevated Installation >40', Add  | 53.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 29.09                     |                         |
| 26 05 33 13-0276 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....           | 21.02                     | 9.14                    |
| For Work In Restricted Working Space, Add  | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.65                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.39                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.14                      |                         |
| For Elevated Installation >40', Add  | 10.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48                      |                         |
| 26 05 33 13-0277 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....           | 24.38                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0278 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 31.36                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0279 | EA  | 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 36.76                  | 15.46                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.28                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.09                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.18                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 17.01                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.28                   |                      |
| 26 05 33 | 13-0280 | EA  | 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 42.29                  | 17.57                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.78                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.32                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54                  |                      |
| 26 05 33 | 13-0281 | EA  | 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 49.07                  | 19.68                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 11.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.87                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 13.77                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 15.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 21.64                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11.81                  |                      |
| 26 05 33 | 13-0282 | EA  | 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 67.80                  | 23.90                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 14.34                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.78                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.56                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 16.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 19.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 23.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 26.28                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 14.34                  |                      |
| 26 05 33 | 13-0283 | EA  | 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 89.96                  | 33.03                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 19.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.61                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 16.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 23.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 26.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 33.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 36.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 19.82                  |                      |
| 26 05 33 | 13-0284 | EA  | 3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 102.84                 | 37.24                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 22.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.45                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 18.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 26.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 29.80                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 37.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 40.97                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 22.35                  |                      |
| 26 05 33 | 13-0285 | EA  | 4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 129.92                 | 48.49                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 29.09                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.70                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 33.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 38.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 48.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 53.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 29.09                  |                      |
| 26 05 33 | 13-0286 | EA  | 5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple   | 197.48                 | 66.76                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 40.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.38                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 73.44                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 40.06                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0287 EA 6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....                    | 251.01                    | 85.59                   |
| <i>For Work In Restricted Working Space, Add</i>  | 51.39                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.13                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 34.26                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 42.83                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 59.96                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 68.52                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 85.65                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 94.22                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 51.39                     |                         |
| 26 05 33 13-0288 EA 1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                  | 21.56                     | 9.14                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.48                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.83                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.65                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 4.57                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 6.39                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 7.31                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 10.05                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.48                      |                         |
| 26 05 33 13-0289 EA 3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                  | 24.92                     | 10.54                   |
| <i>For Work In Restricted Working Space, Add</i>  | 6.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.11                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.22                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.27                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.38                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.54                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 11.59                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.32                      |                         |
| 26 05 33 13-0290 EA 1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                    | 31.79                     | 13.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.01                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.67                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.34                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.68                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.35                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.68                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.35                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 14.69                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.01                      |                         |
| 26 05 33 13-0291 EA 1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                | 37.49                     | 15.46                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.28                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.09                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.18                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.73                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.82                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.37                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 15.46                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 17.01                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.28                      |                         |
| 26 05 33 13-0292 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                | 43.93                     | 17.57                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.54                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.78                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.05                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 19.32                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54                     |                         |
| 26 05 33 13-0293 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                    | 50.46                     | 19.68                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.81                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.87                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 9.84                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 13.77                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 15.74                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 19.68                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 21.64                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11.81                     |                         |
| 26 05 33 13-0294 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....                | 70.50                     | 23.90                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.34                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.78                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.56                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.95                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 16.73                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 19.12                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 23.90                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 26.28                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 14.34                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0295 | EA  | 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple   | 93.35                  | 33.03                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 19.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.61                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 16.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 23.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 26.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 33.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 36.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 19.82                  |                      |
| 26 05 33 | 13-0296 | EA  | 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple   | 106.89                 | 37.24                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 22.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.45                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 18.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 26.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 29.80                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 37.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 40.97                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 22.35                  |                      |
| 26 05 33 | 13-0297 | EA  | 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple   | 133.77                 | 48.49                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 29.09                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.70                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 33.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 38.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 48.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 53.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 29.09                  |                      |
| 26 05 33 | 13-0298 | EA  | 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple   | 203.12                 | 66.76                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 40.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.38                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 73.44                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 40.06                  |                      |
| 26 05 33 | 13-0299 | EA  | 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple   | 259.27                 | 85.59                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 51.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.13                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 34.26                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 42.83                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 59.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 68.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 85.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 94.22                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 51.39                  |                      |
| 26 05 33 | 13-0300 | EA  | 1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple   | 23.51                  | 9.14                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.83                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.65                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 6.39                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 7.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 10.05                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.48                   |                      |
| 26 05 33 | 13-0301 | EA  | 3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple   | 27.42                  | 10.54                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 6.32                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.11                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.27                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 11.59                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.32                   |                      |
| 26 05 33 | 13-0302 | EA  | 1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple   | 34.73                  | 13.36                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.01                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.67                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.34                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.35                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 14.69                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.01                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0303 EA 1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 41.67                     | 15.46                   |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 9.28                      |                         |
| 26 05 33 13-0304 EA 1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 48.60                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.78                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.05                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.32                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |
| 26 05 33 13-0305 EA 2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 55.38                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 11.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.87                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.84                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.77                     |                         |
| For Elevated Installation >30' To 35', Add   | 15.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 19.68                     |                         |
| For Elevated Installation >40', Add  | 21.64                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.81                     |                         |
| 26 05 33 13-0306 EA 2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 77.66                     | 23.90                   |
| For Work In Restricted Working Space, Add  | 14.34                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.90                     |                         |
| For Elevated Installation >40', Add  | 26.28                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 14.34                     |                         |
| 26 05 33 13-0307 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 101.57                    | 33.03                   |
| For Work In Restricted Working Space, Add  | 19.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.51                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.03                     |                         |
| For Elevated Installation >40', Add  | 36.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 19.82                     |                         |
| 26 05 33 13-0308 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....         | 115.09                    | 37.24                   |
| For Work In Restricted Working Space, Add  | 22.35                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.45                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.90                     |                         |
| For Elevated Installation >20' To 25', Add   | 18.62                     |                         |
| For Elevated Installation >25' To 30', Add   | 26.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 29.80                     |                         |
| For Elevated Installation >35' To 40', Add   | 37.25                     |                         |
| For Elevated Installation >40', Add  | 40.97                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 22.35                     |                         |
| 26 05 33 13-0309 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 142.83                    | 48.49                   |
| For Work In Restricted Working Space, Add  | 29.09                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.70                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.39                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.24                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.94                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.79                     |                         |
| For Elevated Installation >35' To 40', Add   | 48.49                     |                         |
| For Elevated Installation >40', Add  | 53.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 29.09                     |                         |
| 26 05 33 13-0310 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....             | 216.19                    | 66.76                   |
| For Work In Restricted Working Space, Add  | 40.06                     |                         |
| For Elevated Installation >10' To 15', Add   | 13.35                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.70                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.38                     |                         |
| For Elevated Installation >25' To 30', Add   | 46.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.41                     |                         |
| For Elevated Installation >35' To 40', Add   | 66.76                     |                         |
| For Elevated Installation >40', Add  | 73.44                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 40.06                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|----------|---------|-----|--|---|----------------------|
| 26 05 33 | 13-0311 | EA  | 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 273.94<br>51.39<br>17.13<br>34.26<br>42.83<br>59.96<br>68.52<br>85.65<br>94.22<br>51.39 | 85.59                |
| 26 05 33 | 13-0312 | EA  | 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 24.83<br>5.48<br>1.83<br>3.65<br>4.57<br>6.39<br>7.31<br>9.14<br>10.05<br>5.48          | 9.14                 |
| 26 05 33 | 13-0313 | EA  | 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 28.70<br>6.32<br>2.11<br>4.22<br>5.27<br>7.38<br>8.43<br>10.54<br>11.59<br>6.32         | 10.54                |
| 26 05 33 | 13-0314 | EA  | 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 37.06<br>8.01<br>2.67<br>5.34<br>6.68<br>9.35<br>10.68<br>13.35<br>14.69<br>8.01        | 13.36                |
| 26 05 33 | 13-0315 | EA  | 1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 44.45<br>9.28<br>3.09<br>6.18<br>7.73<br>10.82<br>12.37<br>15.46<br>17.01<br>9.28       | 15.46                |
| 26 05 33 | 13-0316 | EA  | 1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 51.33<br>10.54<br>3.51<br>7.03<br>8.78<br>12.30<br>14.05<br>17.57<br>19.32<br>10.54     | 17.57                |
| 26 05 33 | 13-0317 | EA  | 2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 58.55<br>11.81<br>3.94<br>7.87<br>9.84<br>13.77<br>15.74<br>19.68<br>21.64<br>11.81     | 19.68                |
| 26 05 33 | 13-0318 | EA  | 2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 82.48<br>14.34<br>4.78<br>9.56<br>11.95<br>16.73<br>19.12<br>23.90<br>26.28<br>14.34    | 23.90                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0319 EA 3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....           | 108.03                    | 33.03                   |
| For Work In Restricted Working Space, Add  | 19.82                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.51                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.03                     |                         |
| For Elevated Installation >40', Add  | 36.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 19.82                     |                         |
| 26 05 33 13-0320 EA 3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....       | 123.60                    | 37.24                   |
| For Work In Restricted Working Space, Add  | 22.35                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.45                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.90                     |                         |
| For Elevated Installation >20' To 25', Add   | 18.62                     |                         |
| For Elevated Installation >25' To 30', Add   | 26.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 29.80                     |                         |
| For Elevated Installation >35' To 40', Add   | 37.25                     |                         |
| For Elevated Installation >40', Add  | 40.97                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 22.35                     |                         |
| 26 05 33 13-0321 EA 4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....           | 153.61                    | 48.49                   |
| For Work In Restricted Working Space, Add  | 29.09                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.70                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.39                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.24                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.94                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.79                     |                         |
| For Elevated Installation >35' To 40', Add   | 48.49                     |                         |
| For Elevated Installation >40', Add  | 53.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 29.09                     |                         |
| 26 05 33 13-0322 EA 5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....           | 230.44                    | 66.76                   |
| For Work In Restricted Working Space, Add  | 40.06                     |                         |
| For Elevated Installation >10' To 15', Add   | 13.35                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.70                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.38                     |                         |
| For Elevated Installation >25' To 30', Add   | 46.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.41                     |                         |
| For Elevated Installation >35' To 40', Add   | 66.76                     |                         |
| For Elevated Installation >40', Add  | 73.44                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 40.06                     |                         |
| 26 05 33 13-0323 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....           | 299.58                    | 85.59                   |
| For Work In Restricted Working Space, Add  | 51.39                     |                         |
| For Elevated Installation >10' To 15', Add   | 17.13                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.26                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.83                     |                         |
| For Elevated Installation >25' To 30', Add   | 59.96                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.52                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.65                     |                         |
| For Elevated Installation >40', Add  | 94.22                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 51.39                     |                         |
| 26 05 33 13-0324 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....         | 25.83                     | 9.14                    |
| For Work In Restricted Working Space, Add  | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.65                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.39                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.14                      |                         |
| For Elevated Installation >40', Add  | 10.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48                      |                         |
| 26 05 33 13-0325 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....         | 29.64                     | 10.54                   |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.32                      |                         |
| 26 05 33 13-0326 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....           | 38.47                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR            | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|------------------|---|---|----------------------|
| 26 05 33 13-0327 | EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 46.67<br>9.28<br>3.09<br>6.18<br>7.73<br>10.82<br>12.37<br>15.46<br>17.01<br>9.28       | 15.46                |
| 26 05 33 13-0328 | EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 52.70<br>10.54<br>3.51<br>7.03<br>8.78<br>12.30<br>14.05<br>17.57<br>19.32<br>10.54     | 17.57                |
| 26 05 33 13-0329 | EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 61.21<br>11.81<br>3.94<br>7.87<br>9.84<br>13.77<br>15.74<br>19.68<br>21.64<br>11.81     | 19.68                |
| 26 05 33 13-0330 | EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 88.14<br>14.34<br>4.78<br>9.56<br>11.95<br>16.73<br>19.12<br>23.90<br>26.28<br>14.34    | 23.90                |
| 26 05 33 13-0331 | EA 3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 117.03<br>19.82<br>6.61<br>13.21<br>16.51<br>23.12<br>26.42<br>33.03<br>36.33<br>19.82  | 33.03                |
| 26 05 33 13-0332 | EA 3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 131.89<br>22.35<br>7.45<br>14.90<br>18.62<br>26.07<br>29.80<br>37.25<br>40.97<br>22.35  | 37.24                |
| 26 05 33 13-0333 | EA 4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 164.41<br>29.09<br>9.70<br>19.39<br>24.24<br>33.94<br>38.79<br>48.49<br>53.33<br>29.09  | 48.49                |
| 26 05 33 13-0334 | EA 5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 250.92<br>40.06<br>13.35<br>26.70<br>33.38<br>46.73<br>53.41<br>66.76<br>73.44<br>40.06 | 66.76                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0335 EA 6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....            | 313.83                    | 85.59                   |
| For Work In Restricted Working Space, Add   | 51.39                     |                         |
| For Elevated Installation >10' To 15', Add  | 17.13                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.26                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.83                     |                         |
| For Elevated Installation >25' To 30', Add  | 59.96                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.52                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.65                     |                         |
| For Elevated Installation >40', Add   | 94.22                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 51.39                     |                         |
| <b>26 05 33 13-0336 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0060)</b> |                           |                         |
| 26 05 33 13-0337 EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....               | 21.31                     | 7.30                    |
| For Work In Restricted Working Space, Add   | 5.52                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.84                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.68                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.60                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.44                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.36                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.21                      |                         |
| For Elevated Installation >40', Add   | 10.13                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 5.52                      |                         |
| 26 05 33 13-0338 EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....               | 25.38                     | 8.44                    |
| For Work In Restricted Working Space, Add   | 6.29                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.10                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.19                      |                         |
| For Elevated Installation >20' To 25', Add  | 5.24                      |                         |
| For Elevated Installation >25' To 30', Add  | 7.34                      |                         |
| For Elevated Installation >30' To 35', Add  | 8.38                      |                         |
| For Elevated Installation >35' To 40', Add  | 10.48                     |                         |
| For Elevated Installation >40', Add   | 11.53                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 6.29                      |                         |
| 26 05 33 13-0339 EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....                 | 31.87                     | 10.68                   |
| For Work In Restricted Working Space, Add   | 8.04                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.68                      |                         |
| For Elevated Installation >15' To 20', Add  | 5.36                      |                         |
| For Elevated Installation >20' To 25', Add  | 6.70                      |                         |
| For Elevated Installation >25' To 30', Add  | 9.38                      |                         |
| For Elevated Installation >30' To 35', Add  | 10.72                     |                         |
| For Elevated Installation >35' To 40', Add  | 13.41                     |                         |
| For Elevated Installation >40', Add   | 14.75                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 8.04                      |                         |
| 26 05 33 13-0340 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....  | 40.29                     | 12.79                   |
| For Work In Restricted Working Space, Add   | 9.64                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.21                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.43                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.03                      |                         |
| For Elevated Installation >25' To 30', Add  | 11.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.85                     |                         |
| For Elevated Installation >35' To 40', Add  | 16.07                     |                         |
| For Elevated Installation >40', Add   | 17.67                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.64                      |                         |
| 26 05 33 13-0341 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....  | 44.11                     | 14.06                   |
| For Work In Restricted Working Space, Add   | 10.55                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.52                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.31                     |                         |
| For Elevated Installation >30' To 35', Add  | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.58                     |                         |
| For Elevated Installation >40', Add   | 19.34                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 10.55                     |                         |
| 26 05 33 13-0342 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....      | 57.54                     | 17.28                   |
| For Work In Restricted Working Space, Add   | 13.00                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.33                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.83                     |                         |
| For Elevated Installation >25' To 30', Add  | 15.16                     |                         |
| For Elevated Installation >30' To 35', Add  | 17.33                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.66                     |                         |
| For Elevated Installation >40', Add   | 23.83                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 13.00                     |                         |
| 26 05 33 13-0343 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....  | 93.97                     | 28.11                   |
| For Work In Restricted Working Space, Add   | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.14                     |                         |
| For Elevated Installation >40', Add   | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 21.08                     |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-0344 | EA  | 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....                                | 150.79                 | 38.79                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 29.09                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.70                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 19.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 24.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 33.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 38.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 48.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 53.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 29.09                  |                      |
| 26 05 33 | 13-0345 | EA  | 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....                            | 186.59                 | 45.82                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 34.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 22.78                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 39.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 45.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 56.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 62.66                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 34.18                  |                      |
| 26 05 33 | 13-0346 | EA  | 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....                                | 223.55                 | 52.85                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 39.64                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 13.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 26.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 33.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 46.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 52.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 66.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 72.67                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 39.64                  |                      |
| <br>     |         |     |  |                        |                      |
| 26 05 33 | 13-0347 |     | <b>Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling</b> <small>(26 05 33 13-0060)</small> |                        |                      |
|          |         |     | Note: Erickson fittings.   |                        |                      |
| 26 05 33 | 13-0348 | EA  | 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....                     | 58.93                  | 22.49                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.63                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.26                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 30.96                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 16.89                  |                      |
| 26 05 33 | 13-0349 | EA  | 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....                     | 66.21                  | 25.16                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 18.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.28                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.56                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 21.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 25.13                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 31.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 34.55                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.85                  |                      |
| 26 05 33 | 13-0350 | EA  | 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....                       | 76.24                  | 27.97                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.00                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 14.00                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.50                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.49                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.99                  |                      |
| 26 05 33 | 13-0351 | EA  | 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....                   | 89.91                  | 30.64                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 22.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.66                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 15.31                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 19.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 26.80                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 30.63                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 38.29                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 42.11                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 22.97                  |                      |
| 26 05 33 | 13-0352 | EA  | 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....                   | 99.77                  | 33.45                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 25.13                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 29.32                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 33.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 41.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 46.08                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 25.13                  |                      |



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-0353 | EA  | 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 122.75                 | 36.26                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 27.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.07                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.29                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 49.90                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 27.22                  |                      |
| 26 05 33 | 13-0354 | EA  | 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 186.63                 | 44.98                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 39.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 56.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 61.85                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 33.74                  |                      |
| 26 05 33 | 13-0355 | EA  | 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 253.14                 | 56.22                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 49.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 70.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 77.30                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 42.17                  |                      |
| 26 05 33 | 13-0356 | EA  | 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 356.25                 | 67.47                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 50.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 59.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 67.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 84.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 92.80                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 50.62                  |                      |
| 26 05 33 | 13-0357 | EA  | 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 403.24                 | 73.09                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 54.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 63.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 73.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 91.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 100.49                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 54.81                  |                      |
| 26 05 33 | 13-0358 | EA  | 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 677.48                 | 89.95                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 67.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 44.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 78.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 89.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 112.43                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 123.67                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 67.46                  |                      |
| 26 05 33 | 13-0359 | EA  | 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....  | 863.29                 | 104.01               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 78.00                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 26.00                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 52.00                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 65.00                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 91.00                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 104.00                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 130.00                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 142.99                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 78.00                  |                      |
| 26 05 33 | 13-0360 |     | <b>Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors</b> <small>(26 05 33 13-0060)</small> |                        |                      |
| 26 05 33 | 13-0361 | EA  | 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....                                | 35.87                  | 11.24                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.81                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 11.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 15.46                  |                      |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0362 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....   | 40.10                     | 12.36                   |
| For Work In Restricted Working Space, Add   | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add  | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add  | 15.46                     |                         |
| For Elevated Installation >40', Add   | 17.01                     |                         |
| 26 05 33 13-0363 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....     | 46.07                     | 14.06                   |
| For Work In Restricted Working Space, Add   | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.57                     |                         |
| For Elevated Installation >40', Add   | 19.33                     |                         |
| 26 05 33 13-0364 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector ..... | 52.38                     | 15.18                   |
| For Work In Restricted Working Space, Add   | 11.39                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.80                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.59                      |                         |
| For Elevated Installation >20' To 25', Add  | 9.49                      |                         |
| For Elevated Installation >25' To 30', Add  | 13.28                     |                         |
| For Elevated Installation >30' To 35', Add  | 15.18                     |                         |
| For Elevated Installation >35' To 40', Add  | 18.98                     |                         |
| For Elevated Installation >40', Add   | 20.87                     |                         |
| 26 05 33 13-0365 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector ..... | 62.28                     | 16.86                   |
| For Work In Restricted Working Space, Add   | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.08                     |                         |
| For Elevated Installation >40', Add   | 23.19                     |                         |
| 26 05 33 13-0366 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....     | 76.12                     | 18.56                   |
| For Work In Restricted Working Space, Add   | 13.91                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.64                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.28                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.60                     |                         |
| For Elevated Installation >25' To 30', Add  | 16.23                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.55                     |                         |
| For Elevated Installation >35' To 40', Add  | 23.19                     |                         |
| For Elevated Installation >40', Add   | 25.51                     |                         |
| 26 05 33 13-0367 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector ..... | 103.88                    | 22.49                   |
| For Work In Restricted Working Space, Add   | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add  | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add  | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add  | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add  | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add  | 28.11                     |                         |
| For Elevated Installation >40', Add   | 30.92                     |                         |
| 26 05 33 13-0368 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....     | 128.43                    | 28.11                   |
| For Work In Restricted Working Space, Add   | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.14                     |                         |
| For Elevated Installation >40', Add   | 38.65                     |                         |
| 26 05 33 13-0369 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector ..... | 154.30                    | 33.73                   |
| For Work In Restricted Working Space, Add   | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.17                     |                         |
| For Elevated Installation >40', Add   | 46.38                     |                         |
| 26 05 33 13-0370 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....     | 174.44                    | 36.54                   |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |

26 05 33 13-0371 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0060)



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0372 | EA  | 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                    | 29.96                  | 12.65                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 7.99                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.53                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.06                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.33                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.86                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 13.92                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7.99                   |                      |
| 26 05 33 | 13-0373 | EA  | 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                    | 33.37                  | 14.06                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.81                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 11.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.46                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.43                   |                      |
| 26 05 33 | 13-0374 | EA  | 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                      | 41.31                  | 17.57                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.79                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54                  |                      |
| 26 05 33 | 13-0375 | EA  | 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                  | 50.54                  | 21.08                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.86                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 23.19                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 12.65                  |                      |
| 26 05 33 | 13-0376 | EA  | 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                  | 65.43                  | 28.11                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 30.92                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 16.87                  |                      |
| 26 05 33 | 13-0377 | EA  | 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                      | 75.56                  | 31.62                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 18.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.33                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 22.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 31.63                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 34.79                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 18.98                  |                      |
| 26 05 33 | 13-0378 | EA  | 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                  | 91.17                  | 35.14                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.59                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 38.65                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 21.08                  |                      |
| 26 05 33 | 13-0379 | EA  | 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs                                      | 121.31                 | 44.27                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 26.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.86                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 44.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 48.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 26.57                  |                      |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR  | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|---------|-----|---|------------------------|----------------------|
| 26 05 33   | 13-0380 | EA  | 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....                             | 144.42                 | 53.41                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 32.04                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.68                  |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 21.36                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 26.70                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 37.38                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 42.72                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 53.41                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 58.75                  |                      |
|  |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 32.04                  |                      |
| 26 05 33   | 13-0381 | EA  | 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....                                 | 176.08                 | 63.25                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 37.95                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.65                  |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 25.30                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.62                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 44.27                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 50.60                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 63.25                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 69.57                  |                      |
|  |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 37.95                  |                      |
| <b>26 05 33 13-0382 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement</b> <small>(26 05 33 13-0060)</small> |         |     |   |                        |                      |
| <i>Note: Type AX</i>   |         |     |   |                        |                      |
| 26 05 33   | 13-0383 | EA  | 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....                 | 115.59                 | 22.49                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 16.87                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.62                   |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.25                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 14.06                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.68                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.49                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 28.12                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 30.93                  |                      |
| 26 05 33   | 13-0384 | EA  | 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....                 | 131.02                 | 25.30                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 18.98                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.33                   |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.65                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.81                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 22.14                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 25.30                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 31.63                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 34.79                  |                      |
| 26 05 33   | 13-0385 | EA  | 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....                   | 153.65                 | 28.11                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 21.08                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.03                   |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.06                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.57                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.60                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.11                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.14                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 38.65                  |                      |
| 26 05 33   | 13-0386 | EA  | 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....               | 185.29                 | 30.92                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 23.19                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.73                   |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.46                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.33                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.06                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 30.92                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.65                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 42.52                  |                      |
| 26 05 33   | 13-0387 | EA  | 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....               | 228.64                 | 33.73                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 25.30                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.43                   |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 16.87                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.08                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 29.52                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 33.73                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 42.17                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 46.38                  |                      |
| 26 05 33   | 13-0388 | EA  | 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....                   | 307.82                 | 36.54                |
|  |         |     | <i>For Work In Restricted Working Space, Add</i>  | 27.41                  |                      |
|  |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.14                   |                      |
|  |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 18.27                  |                      |
|  |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.84                  |                      |
|  |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 31.97                  |                      |
|  |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 36.54                  |                      |
|  |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 45.68                  |                      |
|  |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 50.24                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0389 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....                           | 462.38                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |
| 26 05 33 13-0390 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....                               | 591.25                    | 56.22                   |
| For Work In Restricted Working Space, Add  | 42.17                     |                         |
| For Elevated Installation >10' To 15', Add   | 14.06                     |                         |
| For Elevated Installation >15' To 20', Add   | 28.11                     |                         |
| For Elevated Installation >20' To 25', Add   | 35.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 49.19                     |                         |
| For Elevated Installation >30' To 35', Add   | 56.22                     |                         |
| For Elevated Installation >35' To 40', Add   | 70.28                     |                         |
| For Elevated Installation >40', Add  | 77.30                     |                         |
| 26 05 33 13-0391 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....                           | 851.19                    | 67.47                   |
| For Work In Restricted Working Space, Add  | 50.60                     |                         |
| For Elevated Installation >10' To 15', Add   | 16.87                     |                         |
| For Elevated Installation >15' To 20', Add   | 33.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.17                     |                         |
| For Elevated Installation >25' To 30', Add   | 59.04                     |                         |
| For Elevated Installation >30' To 35', Add   | 67.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 84.34                     |                         |
| For Elevated Installation >40', Add  | 92.77                     |                         |
| 26 05 33 13-0392 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....                               | 908.30                    | 73.09                   |
| For Work In Restricted Working Space, Add  | 54.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 18.27                     |                         |
| For Elevated Installation >15' To 20', Add   | 36.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 45.68                     |                         |
| For Elevated Installation >25' To 30', Add   | 63.95                     |                         |
| For Elevated Installation >30' To 35', Add   | 73.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 91.35                     |                         |
| For Elevated Installation >40', Add  | 100.49                    |                         |
| 26 05 33 13-0393 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....                               | 1,373.25                  | 89.95                   |
| For Work In Restricted Working Space, Add  | 67.46                     |                         |
| For Elevated Installation >10' To 15', Add   | 22.49                     |                         |
| For Elevated Installation >15' To 20', Add   | 44.98                     |                         |
| For Elevated Installation >20' To 25', Add   | 56.22                     |                         |
| For Elevated Installation >25' To 30', Add   | 78.71                     |                         |
| For Elevated Installation >30' To 35', Add   | 89.95                     |                         |
| For Elevated Installation >35' To 40', Add   | 112.44                    |                         |
| For Elevated Installation >40', Add  | 123.68                    |                         |
| 26 05 33 13-0394 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....                               | 1,678.22                  | 99.79                   |
| For Work In Restricted Working Space, Add  | 74.89                     |                         |
| For Elevated Installation >10' To 15', Add   | 24.96                     |                         |
| For Elevated Installation >15' To 20', Add   | 49.92                     |                         |
| For Elevated Installation >20' To 25', Add   | 62.41                     |                         |
| For Elevated Installation >25' To 30', Add   | 87.37                     |                         |
| For Elevated Installation >30' To 35', Add   | 99.85                     |                         |
| For Elevated Installation >35' To 40', Add   | 124.81                    |                         |
| For Elevated Installation >40', Add  | 137.29                    |                         |
| <b>26 05 33 13-0395 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement</b> <small>(26 05 33 13-0395)</small> |                           |                         |
| Note: Type AX-8  |                           |                         |
| 26 05 33 13-0396 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....                             | 125.52                    | 22.49                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.25                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.12                     |                         |
| For Elevated Installation >40', Add  | 30.93                     |                         |
| 26 05 33 13-0397 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....                             | 139.81                    | 25.30                   |
| For Work In Restricted Working Space, Add  | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add   | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.63                     |                         |
| For Elevated Installation >40', Add  | 34.79                     |                         |
| 26 05 33 13-0398 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....                               | 167.45                    | 28.11                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.06                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.60                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-0399 | EA  | 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement ..... | 207.01                 | 30.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 19.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 27.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 38.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 42.52                  |                      |
| 26 05 33 | 13-0400 | EA  | 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement ..... | 271.82                 | 33.73                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 29.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 33.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 46.38                  |                      |
| 26 05 33 | 13-0401 | EA  | 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....      | 328.45                 | 36.54                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 27.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 31.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 50.24                  |                      |
| 26 05 33 | 13-0402 | EA  | 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement ..... | 596.13                 | 44.98                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 11.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 39.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 56.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 61.85                  |                      |
| 26 05 33 | 13-0403 | EA  | 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....      | 682.58                 | 56.22                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 49.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 70.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 77.30                  |                      |
| 26 05 33 | 13-0404 | EA  | 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement ..... | 1,031.67               | 67.47                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 50.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 59.04                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 67.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 84.34                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 92.77                  |                      |
| 26 05 33 | 13-0405 | EA  | 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....      | 1,116.91               | 73.09                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 54.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 63.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 73.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 91.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 100.49                 |                      |
| 26 05 33 | 13-0406 | EA  | 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....      | 1,549.10               | 89.95                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 67.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 78.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 89.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 112.44                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 123.68                 |                      |
| 26 05 33 | 13-0407 | EA  | 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....      | 1,904.46               | 99.79                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>                                 | 74.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>                             | 24.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>                             | 49.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>                             | 62.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>                             | 87.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>                             | 99.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>                             | 124.81                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>                                    | 137.29                 |                      |

26 05 33 13-0408 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0060)  
 Note: Type EX



| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 05 33 13-0409 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....   | 140.04       | 22.49      |
| <i>For Work In Restricted Working Space, Add</i>   | 16.87        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.62         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.25        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.06        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.68        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.49        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.12        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 30.93        |            |
| 26 05 33 13-0410 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....   | 174.06       | 25.30      |
| <i>For Work In Restricted Working Space, Add</i>   | 18.98        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.33         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.65        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.81        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 22.14        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 25.30        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 31.63        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 34.79        |            |
| 26 05 33 13-0411 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....     | 213.71       | 28.11      |
| <i>For Work In Restricted Working Space, Add</i>   | 21.08        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.03         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 14.06        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.57        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.60        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 28.11        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 35.14        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 38.65        |            |
| 26 05 33 13-0412 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... | 257.11       | 30.92      |
| <i>For Work In Restricted Working Space, Add</i>   | 23.19        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.73         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 15.46        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 19.33        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 27.06        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 30.92        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 38.65        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 42.52        |            |
| 26 05 33 13-0413 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... | 339.65       | 33.73      |
| <i>For Work In Restricted Working Space, Add</i>   | 25.30        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.43         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.87        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.08        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 29.52        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 33.73        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 42.17        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 46.38        |            |
| 26 05 33 13-0414 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....     | 459.53       | 36.54      |
| <i>For Work In Restricted Working Space, Add</i>   | 27.41        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.97        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 50.24        |            |
| 26 05 33 13-0415 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... | 704.04       | 44.98      |
| <i>For Work In Restricted Working Space, Add</i>   | 33.74        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.25        |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 22.49        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.11        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 39.36        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 44.98        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 56.23        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 61.85        |            |
| 26 05 33 13-0416 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....     | 945.32       | 56.22      |
| <i>For Work In Restricted Working Space, Add</i>   | 42.17        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.06        |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 28.11        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 35.14        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 49.19        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 56.22        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 70.28        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 77.30        |            |
| 26 05 33 13-0417 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... | 1,405.38     | 67.47      |
| <i>For Work In Restricted Working Space, Add</i>   | 50.60        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 16.87        |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 33.74        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.17        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 59.04        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 67.47        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 84.34        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 92.77        |            |



26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-0418 | EA  | 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....                         | 1,457.30               | 73.09                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 54.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 63.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 73.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 91.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 100.49                 |                      |
| 26 05 33 | 13-0419 | EA  | 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....                         | 2,176.55               | 89.95                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 67.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 78.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 89.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 112.44                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 123.68                 |                      |
| 26 05 33 | 13-0420 | EA  | 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....                         | 2,688.58               | 99.79                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 74.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 24.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 49.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 62.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 87.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 99.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 124.81                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 137.29                 |                      |
| 26 05 33 | 13-0421 |     | <b>Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings</b> <small>(26 05 33 13-0060)</small> |                        |                      |
|          |         |     | Note: Type DX  |                        |                      |
| 26 05 33 | 13-0422 | EA  | 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....                                | 229.61                 | 22.49                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 30.93                  |                      |
| 26 05 33 | 13-0423 | EA  | 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....                                | 272.28                 | 25.30                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 18.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.33                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 22.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 31.63                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 34.79                  |                      |
| 26 05 33 | 13-0424 | EA  | 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....                                  | 327.06                 | 28.11                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.65                  |                      |
| 26 05 33 | 13-0425 | EA  | 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....                              | 382.70                 | 30.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 19.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 27.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 38.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 42.52                  |                      |
| 26 05 33 | 13-0426 | EA  | 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....                              | 422.83                 | 33.73                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 29.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 33.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 46.38                  |                      |
| 26 05 33 | 13-0427 | EA  | 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....                                  | 518.26                 | 36.54                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.24                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0428 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting..... | 682.23                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |
| 26 05 33 13-0429 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....    | 864.51                    | 56.22                   |
| For Work In Restricted Working Space, Add  | 42.17                     |                         |
| For Elevated Installation >10' To 15', Add   | 14.06                     |                         |
| For Elevated Installation >15' To 20', Add   | 28.11                     |                         |
| For Elevated Installation >20' To 25', Add   | 35.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 49.19                     |                         |
| For Elevated Installation >30' To 35', Add   | 56.22                     |                         |
| For Elevated Installation >35' To 40', Add   | 70.28                     |                         |
| For Elevated Installation >40', Add  | 77.30                     |                         |
| 26 05 33 13-0430 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting..... | 976.27                    | 67.47                   |
| For Work In Restricted Working Space, Add  | 50.60                     |                         |
| For Elevated Installation >10' To 15', Add   | 16.87                     |                         |
| For Elevated Installation >15' To 20', Add   | 33.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.17                     |                         |
| For Elevated Installation >25' To 30', Add   | 59.04                     |                         |
| For Elevated Installation >30' To 35', Add   | 67.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 84.34                     |                         |
| For Elevated Installation >40', Add  | 92.77                     |                         |
| 26 05 33 13-0431 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....    | 1,176.53                  | 73.09                   |
| For Work In Restricted Working Space, Add  | 54.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 18.27                     |                         |
| For Elevated Installation >15' To 20', Add   | 36.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 45.68                     |                         |
| For Elevated Installation >25' To 30', Add   | 63.95                     |                         |
| For Elevated Installation >30' To 35', Add   | 73.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 91.35                     |                         |
| For Elevated Installation >40', Add  | 100.49                    |                         |
| 26 05 33 13-0432 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....    | 1,982.94                  | 89.95                   |
| For Work In Restricted Working Space, Add  | 67.46                     |                         |
| For Elevated Installation >10' To 15', Add   | 22.49                     |                         |
| For Elevated Installation >15' To 20', Add   | 44.98                     |                         |
| For Elevated Installation >20' To 25', Add   | 56.22                     |                         |
| For Elevated Installation >25' To 30', Add   | 78.71                     |                         |
| For Elevated Installation >30' To 35', Add   | 89.95                     |                         |
| For Elevated Installation >35' To 40', Add   | 112.44                    |                         |
| For Elevated Installation >40', Add  | 123.68                    |                         |
| 26 05 33 13-0433 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....    | 3,116.76                  | 99.79                   |
| For Work In Restricted Working Space, Add  | 74.89                     |                         |
| For Elevated Installation >10' To 15', Add   | 24.96                     |                         |
| For Elevated Installation >15' To 20', Add   | 49.92                     |                         |
| For Elevated Installation >20' To 25', Add   | 62.41                     |                         |
| For Elevated Installation >25' To 30', Add   | 87.37                     |                         |
| For Elevated Installation >30' To 35', Add   | 99.85                     |                         |
| For Elevated Installation >35' To 40', Add   | 124.81                    |                         |
| For Elevated Installation >40', Add  | 137.29                    |                         |
| <b>26 05 33 13-0434 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0060)</b>                            |                           |                         |
| 26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper .....   | 63.87                     | 11.24                   |
| For Work In Restricted Working Space, Add  | 8.44                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.25                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.47                     |                         |
| 26 05 33 13-0436 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper .....   | 74.50                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| 26 05 33 13-0437 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper .....   | 91.45                     | 16.86                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION                                       | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0438 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper ..... | 127.45                    | 22.49                   |
| For Work In Restricted Working Space, Add                          | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add                         | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add                         | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add                         | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add                         | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add                         | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add                         | 28.11                     |                         |
| For Elevated Installation >40', Add                                | 30.92                     |                         |
| 26 05 33 13-0439 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper ..... | 192.81                    | 33.73                   |
| For Work In Restricted Working Space, Add                          | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add                         | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add                         | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add                         | 21.09                     |                         |
| For Elevated Installation >25' To 30', Add                         | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add                         | 33.74                     |                         |
| For Elevated Installation >35' To 40', Add                         | 42.17                     |                         |
| For Elevated Installation >40', Add                                | 46.39                     |                         |
| 26 05 33 13-0440 EA 5" To 6" Conduit, 14" Bonding Jumper .....     | 318.54                    | 44.98                   |
| For Work In Restricted Working Space, Add                          | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add                         | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add                         | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add                         | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add                         | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add                         | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add                         | 56.23                     |                         |
| For Elevated Installation >40', Add                                | 61.85                     |                         |
| 26 05 33 13-0441 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper ..... | 69.99                     | 11.24                   |
| For Work In Restricted Working Space, Add                          | 8.44                      |                         |
| For Elevated Installation >10' To 15', Add                         | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add                         | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add                         | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add                         | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add                         | 11.25                     |                         |
| For Elevated Installation >35' To 40', Add                         | 14.06                     |                         |
| For Elevated Installation >40', Add                                | 15.47                     |                         |
| 26 05 33 13-0442 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper ..... | 82.23                     | 14.06                   |
| For Work In Restricted Working Space, Add                          | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add                         | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add                         | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add                         | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add                         | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add                         | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add                         | 17.57                     |                         |
| For Elevated Installation >40', Add                                | 19.33                     |                         |
| 26 05 33 13-0443 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper ..... | 98.53                     | 16.86                   |
| For Work In Restricted Working Space, Add                          | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add                         | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add                         | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add                         | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add                         | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add                         | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add                         | 21.08                     |                         |
| For Elevated Installation >40', Add                                | 23.19                     |                         |
| 26 05 33 13-0444 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper ..... | 136.85                    | 22.49                   |
| For Work In Restricted Working Space, Add                          | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add                         | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add                         | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add                         | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add                         | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add                         | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add                         | 28.11                     |                         |
| For Elevated Installation >40', Add                                | 30.92                     |                         |
| 26 05 33 13-0445 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper ..... | 205.29                    | 33.73                   |
| For Work In Restricted Working Space, Add                          | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add                         | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add                         | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add                         | 21.09                     |                         |
| For Elevated Installation >25' To 30', Add                         | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add                         | 33.74                     |                         |
| For Elevated Installation >35' To 40', Add                         | 42.17                     |                         |
| For Elevated Installation >40', Add                                | 46.39                     |                         |
| 26 05 33 13-0446 EA 5" To 6" Conduit, 24" Bonding Jumper .....     | 358.79                    | 44.98                   |
| For Work In Restricted Working Space, Add                          | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add                         | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add                         | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add                         | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add                         | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add                         | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add                         | 56.23                     |                         |
| For Elevated Installation >40', Add                                | 61.85                     |                         |

26 05 33 13-0447 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0060)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0448 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....           | 124.12                    | 35.14                   |
| For Work In Restricted Working Space, Add   | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.14                     |                         |
| For Elevated Installation >40', Add   | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 21.08                     |                         |
| 26 05 33 13-0449 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....           | 147.57                    | 42.16                   |
| For Work In Restricted Working Space, Add   | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.17                     |                         |
| For Elevated Installation >40', Add   | 46.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 25.30                     |                         |
| 26 05 33 13-0450 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....             | 179.66                    | 49.19                   |
| For Work In Restricted Working Space, Add   | 29.52                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.84                      |                         |
| For Elevated Installation >15' To 20', Add  | 19.68                     |                         |
| For Elevated Installation >20' To 25', Add  | 24.60                     |                         |
| For Elevated Installation >25' To 30', Add  | 34.44                     |                         |
| For Elevated Installation >30' To 35', Add  | 39.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 49.20                     |                         |
| For Elevated Installation >40', Add   | 54.11                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 29.52                     |                         |
| 26 05 33 13-0451 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....         | 211.15                    | 56.22                   |
| For Work In Restricted Working Space, Add   | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add  | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add  | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add  | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add  | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add  | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add  | 56.23                     |                         |
| For Elevated Installation >40', Add   | 61.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 33.74                     |                         |
| 26 05 33 13-0452 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....         | 275.08                    | 63.25                   |
| For Work In Restricted Working Space, Add   | 37.95                     |                         |
| For Elevated Installation >10' To 15', Add  | 12.65                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.30                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.62                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.27                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.60                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.25                     |                         |
| For Elevated Installation >40', Add   | 69.57                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 37.95                     |                         |
| 26 05 33 13-0453 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....             | 333.07                    | 70.27                   |
| For Work In Restricted Working Space, Add   | 42.17                     |                         |
| For Elevated Installation >10' To 15', Add  | 14.06                     |                         |
| For Elevated Installation >15' To 20', Add  | 28.11                     |                         |
| For Elevated Installation >20' To 25', Add  | 35.14                     |                         |
| For Elevated Installation >25' To 30', Add  | 49.19                     |                         |
| For Elevated Installation >30' To 35', Add  | 56.22                     |                         |
| For Elevated Installation >35' To 40', Add  | 70.28                     |                         |
| For Elevated Installation >40', Add   | 77.30                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 42.17                     |                         |
| 26 05 33 13-0454 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal..... | 467.77                    | 84.33                   |
| For Work In Restricted Working Space, Add   | 50.60                     |                         |
| For Elevated Installation >10' To 15', Add  | 16.87                     |                         |
| For Elevated Installation >15' To 20', Add  | 33.73                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.17                     |                         |
| For Elevated Installation >25' To 30', Add  | 59.03                     |                         |
| For Elevated Installation >30' To 35', Add  | 67.46                     |                         |
| For Elevated Installation >35' To 40', Add  | 84.33                     |                         |
| For Elevated Installation >40', Add   | 92.76                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 50.60                     |                         |
| 26 05 33 13-0455 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....             | 562.15                    | 98.39                   |
| For Work In Restricted Working Space, Add   | 59.03                     |                         |
| For Elevated Installation >10' To 15', Add  | 19.68                     |                         |
| For Elevated Installation >15' To 20', Add  | 39.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 49.19                     |                         |
| For Elevated Installation >25' To 30', Add  | 68.87                     |                         |
| For Elevated Installation >30' To 35', Add  | 78.71                     |                         |
| For Elevated Installation >35' To 40', Add  | 98.39                     |                         |
| For Elevated Installation >40', Add   | 108.22                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 59.03                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0456 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....        | 1,278.66                  | 112.45                  |
| For Work In Restricted Working Space, Add   | 67.46                     |                         |
| For Elevated Installation >10' To 15', Add  | 22.49                     |                         |
| For Elevated Installation >15' To 20', Add  | 44.98                     |                         |
| For Elevated Installation >20' To 25', Add  | 56.22                     |                         |
| For Elevated Installation >25' To 30', Add  | 78.71                     |                         |
| For Elevated Installation >30' To 35', Add  | 89.95                     |                         |
| For Elevated Installation >35' To 40', Add  | 112.44                    |                         |
| For Elevated Installation >40', Add   | 123.68                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 67.46                     |                         |
| 26 05 33 13-0457 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....             | 1,472.59                  | 126.49                  |
| For Work In Restricted Working Space, Add   | 75.90                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.30                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.60                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.25                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.55                     |                         |
| For Elevated Installation >30' To 35', Add  | 101.20                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.50                    |                         |
| For Elevated Installation >40', Add   | 139.15                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 75.90                     |                         |
| <b>26 05 33 13-0458 Rigid Galvanized Steel (RGS) Threaded Couplings</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0459 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....                              | 18.25                     | 8.44                    |
| For Work In Restricted Working Space, Add   | 5.06                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.43                      |                         |
| For Elevated Installation >40', Add   | 9.27                      |                         |
| 26 05 33 13-0460 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....                              | 25.63                     | 11.94                   |
| For Work In Restricted Working Space, Add   | 7.17                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add  | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add  | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add  | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add  | 11.95                     |                         |
| For Elevated Installation >40', Add   | 13.15                     |                         |
| 26 05 33 13-0461 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....                                | 33.57                     | 15.46                   |
| For Work In Restricted Working Space, Add   | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add  | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add  | 15.46                     |                         |
| For Elevated Installation >40', Add   | 17.01                     |                         |
| 26 05 33 13-0462 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....                            | 38.48                     | 17.57                   |
| For Work In Restricted Working Space, Add   | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.57                     |                         |
| For Elevated Installation >40', Add   | 19.33                     |                         |
| 26 05 33 13-0463 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....                            | 46.34                     | 21.08                   |
| For Work In Restricted Working Space, Add   | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.08                     |                         |
| For Elevated Installation >40', Add   | 23.19                     |                         |
| 26 05 33 13-0464 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....                                | 54.02                     | 23.90                   |
| For Work In Restricted Working Space, Add   | 14.34                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add  | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add  | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add  | 23.90                     |                         |
| For Elevated Installation >40', Add   | 26.28                     |                         |
| 26 05 33 13-0465 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....                            | 67.40                     | 26.70                   |
| For Work In Restricted Working Space, Add   | 16.02                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.34                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.68                     |                         |
| For Elevated Installation >20' To 25', Add  | 13.35                     |                         |
| For Elevated Installation >25' To 30', Add  | 18.69                     |                         |
| For Elevated Installation >30' To 35', Add  | 21.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 26.71                     |                         |
| For Elevated Installation >40', Add   | 29.38                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0466 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....                                | 78.63                     | 30.22                   |
| For Work In Restricted Working Space, Add   | 18.13                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.09                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.11                     |                         |
| For Elevated Installation >25' To 30', Add  | 21.15                     |                         |
| For Elevated Installation >30' To 35', Add  | 24.18                     |                         |
| For Elevated Installation >35' To 40', Add  | 30.22                     |                         |
| For Elevated Installation >40', Add   | 33.24                     |                         |
| 26 05 33 13-0467 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....                            | 90.64                     | 33.03                   |
| For Work In Restricted Working Space, Add   | 19.82                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 16.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add  | 33.03                     |                         |
| For Elevated Installation >40', Add   | 36.33                     |                         |
| 26 05 33 13-0468 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....                                | 95.87                     | 35.14                   |
| For Work In Restricted Working Space, Add   | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.14                     |                         |
| For Elevated Installation >40', Add   | 38.65                     |                         |
| <b>26 05 33 13-0469 Rigid Galvanized Steel (RGS) Sealing Locknut</b> <small>(26 05 33 13-0060)</small>    |                           |                         |
| 26 05 33 13-0470 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....                                | 4.04                      | 1.40                    |
| 26 05 33 13-0471 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....                                | 5.63                      | 2.10                    |
| 26 05 33 13-0472 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....                                  | 9.35                      | 3.52                    |
| 26 05 33 13-0473 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....                              | 13.48                     | 4.92                    |
| 26 05 33 13-0474 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....                              | 16.04                     | 5.62                    |
| 26 05 33 13-0475 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....                                  | 18.77                     | 6.32                    |
| <b>26 05 33 13-0476 Rigid Galvanized Steel (RGS) Fire Stop Fittings</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0477 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....                              | 257.17                    | 17.06                   |
| For Work In Restricted Working Space, Add   | 12.80                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.27                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.53                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.66                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.93                     |                         |
| For Elevated Installation >30' To 35', Add  | 17.06                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.33                     |                         |
| For Elevated Installation >40', Add   | 23.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 12.80                     |                         |
| 26 05 33 13-0478 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....                              | 261.28                    | 18.70                   |
| For Work In Restricted Working Space, Add   | 14.03                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.68                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.35                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.69                     |                         |
| For Elevated Installation >25' To 30', Add  | 16.37                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 23.38                     |                         |
| For Elevated Installation >40', Add   | 25.72                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 14.03                     |                         |
| 26 05 33 13-0479 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....                                | 313.75                    | 20.52                   |
| For Work In Restricted Working Space, Add   | 15.36                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.24                     |                         |
| For Elevated Installation >20' To 25', Add  | 12.80                     |                         |
| For Elevated Installation >25' To 30', Add  | 17.92                     |                         |
| For Elevated Installation >30' To 35', Add  | 20.48                     |                         |
| For Elevated Installation >35' To 40', Add  | 25.60                     |                         |
| For Elevated Installation >40', Add   | 28.16                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 15.36                     |                         |
| 26 05 33 13-0480 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....                            | 344.43                    | 22.49                   |
| For Work In Restricted Working Space, Add   | 16.88                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.63                      |                         |
| For Elevated Installation >15' To 20', Add  | 11.25                     |                         |
| For Elevated Installation >20' To 25', Add  | 14.07                     |                         |
| For Elevated Installation >25' To 30', Add  | 19.69                     |                         |
| For Elevated Installation >30' To 35', Add  | 22.51                     |                         |
| For Elevated Installation >35' To 40', Add  | 28.14                     |                         |
| For Elevated Installation >40', Add   | 30.95                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                    | 16.88                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0481 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....         | 393.03                    | 25.30                   |
| For Work In Restricted Working Space, Add  | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add   | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.63                     |                         |
| For Elevated Installation >40', Add  | 34.79                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 18.98                     |                         |
| 26 05 33 13-0482 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....             | 582.59                    | 28.11                   |
| For Work In Restricted Working Space, Add  | 21.09                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.06                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.58                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.61                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.16                     |                         |
| For Elevated Installation >40', Add  | 38.67                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 21.09                     |                         |
| 26 05 33 13-0483 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....         | 670.08                    | 37.53                   |
| For Work In Restricted Working Space, Add  | 28.13                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.75                     |                         |
| For Elevated Installation >20' To 25', Add   | 23.44                     |                         |
| For Elevated Installation >25' To 30', Add   | 32.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 37.50                     |                         |
| For Elevated Installation >35' To 40', Add   | 46.88                     |                         |
| For Elevated Installation >40', Add  | 51.57                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 28.13                     |                         |
| 26 05 33 13-0484 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....             | 743.39                    | 41.18                   |
| For Work In Restricted Working Space, Add  | 30.91                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.30                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.61                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.76                     |                         |
| For Elevated Installation >25' To 30', Add   | 36.06                     |                         |
| For Elevated Installation >30' To 35', Add   | 41.21                     |                         |
| For Elevated Installation >35' To 40', Add   | 51.52                     |                         |
| For Elevated Installation >40', Add  | 56.67                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 30.91                     |                         |
| 26 05 33 13-0485 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....         | 864.89                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.99                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.24                     |                         |
| For Elevated Installation >40', Add  | 61.86                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 33.74                     |                         |
| 26 05 33 13-0486 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....             | 974.96                    | 50.60                   |
| For Work In Restricted Working Space, Add  | 37.95                     |                         |
| For Elevated Installation >10' To 15', Add   | 12.65                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.30                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.62                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.27                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.60                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.25                     |                         |
| For Elevated Installation >40', Add  | 69.57                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 37.95                     |                         |
| 26 05 33 13-0487 EA 5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....             | 1,309.20                  | 56.22                   |
| For Work In Restricted Working Space, Add  | 42.17                     |                         |
| For Elevated Installation >10' To 15', Add   | 14.06                     |                         |
| For Elevated Installation >15' To 20', Add   | 28.11                     |                         |
| For Elevated Installation >20' To 25', Add   | 35.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 49.19                     |                         |
| For Elevated Installation >30' To 35', Add   | 56.22                     |                         |
| For Elevated Installation >35' To 40', Add   | 70.28                     |                         |
| For Elevated Installation >40', Add  | 77.30                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 42.17                     |                         |
| 26 05 33 13-0488 EA 6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....             | 1,628.83                  | 62.41                   |
| For Work In Restricted Working Space, Add  | 46.80                     |                         |
| For Elevated Installation >10' To 15', Add   | 15.60                     |                         |
| For Elevated Installation >15' To 20', Add   | 31.20                     |                         |
| For Elevated Installation >20' To 25', Add   | 39.00                     |                         |
| For Elevated Installation >25' To 30', Add   | 54.60                     |                         |
| For Elevated Installation >30' To 35', Add   | 62.40                     |                         |
| For Elevated Installation >35' To 40', Add   | 78.01                     |                         |
| For Elevated Installation >40', Add  | 85.81                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 46.80                     |                         |

26 05 33 13-0489 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0060)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0490 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....    | 22.73                     | 10.89                   |
| For Work In Restricted Working Space, Add  | 6.53                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.18                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.36                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.45                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.62                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.71                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.89                     |                         |
| For Elevated Installation >40', Add  | 11.98                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.53                      |                         |
| 26 05 33 13-0491 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....      | 24.93                     | 11.59                   |
| For Work In Restricted Working Space, Add  | 6.96                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.32                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.64                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.80                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.12                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.28                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.60                     |                         |
| For Elevated Installation >40', Add  | 12.75                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.96                      |                         |
| 26 05 33 13-0492 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....      | 25.64                     | 11.94                   |
| For Work In Restricted Working Space, Add  | 7.17                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.95                     |                         |
| For Elevated Installation >40', Add  | 13.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 7.17                      |                         |
| 26 05 33 13-0493 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....  | 29.11                     | 12.29                   |
| For Work In Restricted Working Space, Add  | 7.38                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.46                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.92                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.15                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.61                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.84                      |                         |
| For Elevated Installation >35' To 40', Add   | 12.30                     |                         |
| For Elevated Installation >40', Add  | 13.53                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 7.38                      |                         |
| 26 05 33 13-0494 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....  | 29.81                     | 12.65                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 7.59                      |                         |
| 26 05 33 13-0495 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing .....    | 31.21                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.01                      |                         |
| 26 05 33 13-0496 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....  | 33.57                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.43                      |                         |
| 26 05 33 13-0497 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....  | 34.28                     | 14.41                   |
| For Work In Restricted Working Space, Add  | 8.65                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.88                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.76                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.21                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.09                     |                         |
| For Elevated Installation >30' To 35', Add   | 11.53                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.41                     |                         |
| For Elevated Installation >40', Add  | 15.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.65                      |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0498 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing .....     | 35.68                     | 15.11                   |
| For Work In Restricted Working Space, Add   | 9.07                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.02                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.04                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.56                      |                         |
| For Elevated Installation >25' To 30', Add  | 10.58                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.09                     |                         |
| For Elevated Installation >35' To 40', Add  | 15.11                     |                         |
| For Elevated Installation >40', Add   | 16.62                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.07                      |                         |
| 26 05 33 13-0499 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing ..... | 37.08                     | 15.81                   |
| For Work In Restricted Working Space, Add   | 9.49                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.16                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.32                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.91                      |                         |
| For Elevated Installation >25' To 30', Add  | 11.07                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.65                     |                         |
| For Elevated Installation >35' To 40', Add  | 15.81                     |                         |
| For Elevated Installation >40', Add   | 17.39                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.49                      |                         |
| 26 05 33 13-0500 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....       | 43.61                     | 15.81                   |
| For Work In Restricted Working Space, Add   | 9.49                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.16                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.32                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.91                      |                         |
| For Elevated Installation >25' To 30', Add  | 11.07                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.65                     |                         |
| For Elevated Installation >35' To 40', Add  | 15.81                     |                         |
| For Elevated Installation >40', Add   | 17.39                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.49                      |                         |
| 26 05 33 13-0501 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....       | 44.31                     | 16.16                   |
| For Work In Restricted Working Space, Add   | 9.70                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.23                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.46                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.08                      |                         |
| For Elevated Installation >25' To 30', Add  | 11.31                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.93                     |                         |
| For Elevated Installation >35' To 40', Add  | 16.16                     |                         |
| For Elevated Installation >40', Add   | 17.78                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.70                      |                         |
| 26 05 33 13-0502 EA 2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing .....         | 45.72                     | 16.86                   |
| For Work In Restricted Working Space, Add   | 10.12                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.37                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.75                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.43                      |                         |
| For Elevated Installation >25' To 30', Add  | 11.81                     |                         |
| For Elevated Installation >30' To 35', Add  | 13.49                     |                         |
| For Elevated Installation >35' To 40', Add  | 16.87                     |                         |
| For Elevated Installation >40', Add   | 18.55                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 10.12                     |                         |
| 26 05 33 13-0503 EA 2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....     | 47.13                     | 17.57                   |
| For Work In Restricted Working Space, Add   | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.57                     |                         |
| For Elevated Installation >40', Add   | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 10.54                     |                         |
| 26 05 33 13-0504 EA 2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....     | 50.64                     | 19.33                   |
| For Work In Restricted Working Space, Add   | 11.60                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.87                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.73                      |                         |
| For Elevated Installation >20' To 25', Add  | 9.66                      |                         |
| For Elevated Installation >25' To 30', Add  | 13.53                     |                         |
| For Elevated Installation >30' To 35', Add  | 15.46                     |                         |
| For Elevated Installation >35' To 40', Add  | 19.33                     |                         |
| For Elevated Installation >40', Add   | 21.26                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 11.60                     |                         |
| 26 05 33 13-0505 EA 2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing .....     | 63.45                     | 22.84                   |
| For Work In Restricted Working Space, Add   | 13.70                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.14                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 15.99                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add  | 22.84                     |                         |
| For Elevated Installation >40', Add   | 25.12                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 13.70                     |                         |

26 05 33 13-0506 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0060)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0507 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....   | 2.91                      | 1.40                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 0.85                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 0.28                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 0.56                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 0.71                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 0.99                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 1.13                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 1.41                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 1.55                      |                         |
| 26 05 33 13-0508 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....   | 4.34                      | 2.10                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 1.27                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 0.42                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 0.84                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 1.06                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 1.48                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 1.69                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 2.11                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 2.32                      |                         |
| 26 05 33 13-0509 EA 1" Rigid Galvanized Steel (RGS) Locknuts.....     | 7.22                      | 3.52                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 2.11                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 0.70                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 1.40                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 1.76                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 2.46                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 2.81                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 3.51                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 3.86                      |                         |
| 26 05 33 13-0510 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts..... | 10.17                     | 4.92                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 2.95                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 0.98                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 1.97                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 2.46                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 3.44                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 3.94                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 4.92                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 5.41                      |                         |
| 26 05 33 13-0511 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts..... | 11.67                     | 5.62                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 3.37                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 1.12                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 2.25                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 2.81                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 3.93                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 4.50                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 5.62                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 6.18                      |                         |
| 26 05 33 13-0512 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....     | 13.18                     | 6.32                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 3.80                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 1.27                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 2.53                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 3.16                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 4.43                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 5.06                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 6.33                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 6.96                      |                         |
| 26 05 33 13-0513 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts..... | 18.28                     | 8.44                    |
| <i>For Work In Restricted Working Space, Add</i>                      | 5.06                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 1.69                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 3.37                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 4.22                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 5.90                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 6.74                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 8.43                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 9.27                      |                         |
| 26 05 33 13-0514 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....     | 22.65                     | 10.54                   |
| <i>For Work In Restricted Working Space, Add</i>                      | 6.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 2.11                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 4.22                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 5.27                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 7.38                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 8.43                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 10.54                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 11.59                     |                         |
| 26 05 33 13-0515 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts..... | 26.51                     | 11.94                   |
| <i>For Work In Restricted Working Space, Add</i>                      | 7.17                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                  | 2.39                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                  | 4.78                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                  | 5.98                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                  | 8.37                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                  | 9.56                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                  | 11.95                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>                         | 13.15                     |                         |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR                   |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|--|--------------|------------|
| CSI                     | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 05 33 13-0516        | EA 4" Rigid Galvanized Steel (RGS) Locknuts .....  | 29.70        | 13.36      |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 8.01         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 2.67         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 5.34         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 6.68         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 9.35         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 10.68        |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 13.35        |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 14.69        |            |
| <b>26 05 33 13-0517</b> | <b>Rigid Galvanized Steel (RGS) Grounding Locknuts</b> <small>(26 05 33 13-0060)</small> |              |            |
| 26 05 33 13-0518        | EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                            | 4.12         | 1.40       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 0.85         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 0.28         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 0.56         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 0.71         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 0.99         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 1.13         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 1.41         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 1.55         |            |
| 26 05 33 13-0519        | EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                            | 5.78         | 2.10       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 1.27         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 0.42         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 0.84         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 1.06         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 1.48         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 1.69         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 2.11         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 2.32         |            |
| 26 05 33 13-0520        | EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                              | 9.25         | 3.52       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 2.11         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 0.70         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 1.40         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 1.76         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 2.46         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 2.81         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 3.51         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 3.86         |            |
| 26 05 33 13-0521        | EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                          | 12.95        | 4.92       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 2.95         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 0.98         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 1.97         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 2.46         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 3.44         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 3.94         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 4.92         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 5.41         |            |
| 26 05 33 13-0522        | EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                          | 14.64        | 5.62       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 3.37         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 1.12         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 2.25         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 2.81         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 3.93         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 4.50         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 5.62         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 6.18         |            |
| 26 05 33 13-0523        | EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                              | 17.08        | 6.32       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 3.80         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 1.27         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 2.53         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 3.16         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 4.43         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 5.06         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 6.33         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 6.96         |            |
| 26 05 33 13-0524        | EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                          | 25.10        | 8.44       |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 5.06         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 1.69         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 3.37         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 4.22         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 5.90         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 6.74         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 8.43         |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 9.27         |            |
| 26 05 33 13-0525        | EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                              | 31.54        | 10.54      |
|                         | <i>For Work In Restricted Working Space, Add</i>   | 6.32         |            |
|                         | <i>For Elevated Installation &gt;10' To 15', Add</i>                                     | 2.11         |            |
|                         | <i>For Elevated Installation &gt;15' To 20', Add</i>                                     | 4.22         |            |
|                         | <i>For Elevated Installation &gt;20' To 25', Add</i>                                     | 5.27         |            |
|                         | <i>For Elevated Installation &gt;25' To 30', Add</i>                                     | 7.38         |            |
|                         | <i>For Elevated Installation &gt;30' To 35', Add</i>                                     | 8.43         |            |
|                         | <i>For Elevated Installation &gt;35' To 40', Add</i>                                     | 10.54        |            |
|                         | <i>For Elevated Installation &gt;40', Add</i>  | 11.59        |            |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0526 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                                | 40.89                     | 11.94                   |
| <i>For Work In Restricted Working Space, Add</i>  | 7.17                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.39                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.78                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.98                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.37                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 9.56                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 11.95                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 13.15                     |                         |
| 26 05 33 13-0527 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....                                    | 48.61                     | 13.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.01                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.67                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.34                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.68                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.35                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.68                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.35                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 14.69                     |                         |
| <b>26 05 33 13-0528 Rigid Galvanized Steel (RGS) Insulated Ground Bushing</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0529 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                            | 11.69                     | 4.22                    |
| <i>For Work In Restricted Working Space, Add</i>  | 2.53                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 0.84                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 1.69                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.11                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 2.95                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 3.38                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 4.22                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 4.64                      |                         |
| 26 05 33 13-0530 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                            | 14.77                     | 5.62                    |
| <i>For Work In Restricted Working Space, Add</i>  | 3.37                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.12                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.25                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 2.81                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 3.93                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 4.50                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 5.62                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 6.18                      |                         |
| 26 05 33 13-0531 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                              | 18.81                     | 7.02                    |
| <i>For Work In Restricted Working Space, Add</i>  | 4.22                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.41                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.81                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 3.52                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 4.92                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 5.62                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 7.03                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 7.73                      |                         |
| 26 05 33 13-0532 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                          | 27.79                     | 11.24                   |
| <i>For Work In Restricted Working Space, Add</i>  | 6.75                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.25                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.50                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.62                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.87                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 9.00                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 11.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 12.37                     |                         |
| 26 05 33 13-0533 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                          | 31.30                     | 12.65                   |
| <i>For Work In Restricted Working Space, Add</i>  | 7.59                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.53                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.06                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.33                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.86                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.12                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 12.65                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 13.92                     |                         |
| 26 05 33 13-0534 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                              | 35.47                     | 14.06                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.81                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.62                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.03                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.84                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 11.24                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 14.06                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 15.46                     |                         |
| 26 05 33 13-0535 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....                          | 47.95                     | 16.86                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.12                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.37                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.75                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 11.81                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.49                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 16.87                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 18.55                     |                         |

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0536 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....  | 58.45                     | 21.08                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| 26 05 33 13-0537 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....                                    | 73.05                     | 28.11                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.11                     |                         |
| For Elevated Installation >40', Add  | 30.92                     |                         |
| 26 05 33 13-0538 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....  | 89.30                     | 35.14                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| <b>26 05 33 13-0539 Rigid Galvanized Steel (RGS) Threadless Compression Connectors</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0540 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                             | 28.88                     | 12.65                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| 26 05 33 13-0541 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                             | 33.88                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| 26 05 33 13-0542 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                               | 44.15                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| 26 05 33 13-0543 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                           | 59.11                     | 21.08                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| 26 05 33 13-0544 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                           | 79.69                     | 28.11                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.11                     |                         |
| For Elevated Installation >40', Add  | 30.92                     |                         |
| 26 05 33 13-0545 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                               | 115.31                    | 35.14                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0546 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....              | 188.23                    | 42.16                   |
| For Work In Restricted Working Space, Add   | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.17                     |                         |
| For Elevated Installation >40', Add   | 46.38                     |                         |
| 26 05 33 13-0547 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                  | 236.13                    | 49.19                   |
| For Work In Restricted Working Space, Add   | 29.52                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.84                      |                         |
| For Elevated Installation >15' To 20', Add  | 19.68                     |                         |
| For Elevated Installation >20' To 25', Add  | 24.60                     |                         |
| For Elevated Installation >25' To 30', Add  | 34.44                     |                         |
| For Elevated Installation >30' To 35', Add  | 39.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 49.20                     |                         |
| For Elevated Installation >40', Add   | 54.11                     |                         |
| 26 05 33 13-0548 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....              | 299.47                    | 59.73                   |
| For Work In Restricted Working Space, Add   | 35.84                     |                         |
| For Elevated Installation >10' To 15', Add  | 11.95                     |                         |
| For Elevated Installation >15' To 20', Add  | 23.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 29.87                     |                         |
| For Elevated Installation >25' To 30', Add  | 41.81                     |                         |
| For Elevated Installation >30' To 35', Add  | 47.79                     |                         |
| For Elevated Installation >35' To 40', Add  | 59.74                     |                         |
| For Elevated Installation >40', Add   | 65.71                     |                         |
| 26 05 33 13-0549 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....                  | 360.91                    | 70.27                   |
| For Work In Restricted Working Space, Add   | 42.17                     |                         |
| For Elevated Installation >10' To 15', Add  | 14.06                     |                         |
| For Elevated Installation >15' To 20', Add  | 28.11                     |                         |
| For Elevated Installation >20' To 25', Add  | 35.14                     |                         |
| For Elevated Installation >25' To 30', Add  | 49.19                     |                         |
| For Elevated Installation >30' To 35', Add  | 56.22                     |                         |
| For Elevated Installation >35' To 40', Add  | 70.28                     |                         |
| For Elevated Installation >40', Add   | 77.30                     |                         |
| <b>26 05 33 13-0550 Rigid Galvanized Steel (RGS) Compression Coupling</b> <small>(26 05 33 13-0060)</small> |                           |                         |
| 26 05 33 13-0551 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....                             | 40.92                     | 17.57                   |
| For Work In Restricted Working Space, Add   | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.57                     |                         |
| For Elevated Installation >40', Add   | 19.33                     |                         |
| 26 05 33 13-0552 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling.....                             | 51.43                     | 21.08                   |
| For Work In Restricted Working Space, Add   | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.08                     |                         |
| For Elevated Installation >40', Add   | 23.19                     |                         |
| 26 05 33 13-0553 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling.....                               | 72.38                     | 28.11                   |
| For Work In Restricted Working Space, Add   | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add  | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add  | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add  | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add  | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add  | 28.11                     |                         |
| For Elevated Installation >40', Add   | 30.92                     |                         |
| 26 05 33 13-0554 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling.....                           | 94.19                     | 35.14                   |
| For Work In Restricted Working Space, Add   | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.14                     |                         |
| For Elevated Installation >40', Add   | 38.65                     |                         |
| 26 05 33 13-0555 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....                           | 115.47                    | 42.16                   |
| For Work In Restricted Working Space, Add   | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.17                     |                         |
| For Elevated Installation >40', Add   | 46.38                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR            |  | TOTAL DIRECT | DEMOLITION |
|------------------|--|--------------|------------|
| CSI              | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 05 33 13-0556 | EA 2" Rigid Galvanized Steel (RGS) Compression Coupling                    | 166.50       | 49.19      |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 29.52        |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 9.84         |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 19.68        |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 24.60        |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 34.44        |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 39.36        |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 49.20        |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 54.11        |            |
| 26 05 33 13-0557 | EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling                | 255.92       | 56.22      |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 33.74        |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 11.25        |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 22.49        |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 28.11        |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 39.36        |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 44.98        |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 56.23        |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 61.85        |            |
| 26 05 33 13-0558 | EA 3" Rigid Galvanized Steel (RGS) Compression Coupling                    | 287.06       | 48.49      |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 29.09        |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 9.70         |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 19.40        |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 24.25        |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 33.94        |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 38.79        |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 48.49        |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 53.34        |            |
| 26 05 33 13-0559 | EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling                | 397.81       | 73.79      |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 44.27        |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 14.76        |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 29.52        |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 36.90        |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 51.65        |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 59.03        |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 73.79        |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 81.17        |            |
| 26 05 33 13-0560 | EA 4" Rigid Galvanized Steel (RGS) Compression Coupling                    | 488.84       | 84.33      |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 50.60        |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 16.87        |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 33.73        |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 42.17        |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 59.03        |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 67.46        |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 84.33        |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 92.76        |            |
| 26 05 33 13-0561 | Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0060)</small> |              |            |
| 26 05 33 13-0562 | EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal                           | 7.30         | 3.52       |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 2.11         |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 0.70         |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 1.40         |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 1.76         |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 2.46         |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 2.81         |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 3.51         |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 3.86         |            |
| 26 05 33 13-0563 | EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal                           | 8.80         | 4.22       |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 2.53         |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 0.84         |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 1.69         |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 2.11         |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 2.95         |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 3.38         |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 4.22         |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 4.64         |            |
| 26 05 33 13-0564 | EA 1" Zinc Plated Steel Snap-in Knock Out Seal                             | 10.41        | 4.92       |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 2.95         |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 0.98         |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 1.97         |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 2.46         |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 3.44         |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 3.94         |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 4.92         |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 5.41         |            |
| 26 05 33 13-0565 | EA 1-1/4" Zinc Plated Steel Snap-in Knock Out Seal                         | 13.40        | 6.32       |
|                  | <i>For Work In Restricted Working Space, Add</i>                           | 3.80         |            |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>                       | 1.27         |            |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>                       | 2.53         |            |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>                       | 3.16         |            |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>                       | 4.43         |            |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>                       | 5.06         |            |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>                       | 6.33         |            |
|                  | <i>For Elevated Installation &gt;40', Add</i>                              | 6.96         |            |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0566 EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal .....                                | 15.11                     | 7.02                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.41                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.81                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.52                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.92                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 5.62                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 7.03                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 7.73                      |                         |
| 26 05 33 13-0567 EA 2" Zinc Plated Steel Snap-in Knock Out Seal .....                                    | 18.33                     | 8.44                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.06                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.69                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 3.37                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 5.90                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 6.74                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 8.43                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 9.27                      |                         |
| <b>26 05 33 13-0568 Zinc Plated Steel 3-Piece Knock Out Seal</b> <small>(26 05 33 13-0060)</small> ..... | 8.67                      | 3.52                    |
| 26 05 33 13-0569 EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....                                  | 8.67                      | 3.52                    |
| <i>For Work In Restricted Working Space, Add</i>   | 2.11                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 0.70                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 1.40                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 1.76                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 2.46                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 2.81                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 3.51                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 3.86                      |                         |
| 26 05 33 13-0570 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal .....                                  | 10.36                     | 4.22                    |
| <i>For Work In Restricted Working Space, Add</i>   | 2.53                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 0.84                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 1.69                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 2.11                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 2.95                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 3.38                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 4.64                      |                         |
| 26 05 33 13-0571 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal .....                                    | 12.49                     | 4.92                    |
| <i>For Work In Restricted Working Space, Add</i>   | 2.95                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 0.98                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 1.97                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 2.46                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 3.44                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 3.94                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 4.92                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 5.41                      |                         |
| 26 05 33 13-0572 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal .....                                | 16.06                     | 6.32                    |
| <i>For Work In Restricted Working Space, Add</i>   | 3.80                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.27                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.53                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.16                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.43                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 5.06                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 6.33                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 6.96                      |                         |
| 26 05 33 13-0573 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....                                | 19.50                     | 7.02                    |
| <i>For Work In Restricted Working Space, Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.41                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.81                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.52                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.92                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 5.62                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 7.03                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 7.73                      |                         |
| 26 05 33 13-0574 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal .....                                    | 23.56                     | 8.44                    |
| <i>For Work In Restricted Working Space, Add</i>   | 5.06                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.69                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 3.37                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 5.90                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 6.74                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 8.43                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 9.27                      |                         |
| 26 05 33 13-0575 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....                                | 28.96                     | 10.54                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.11                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 4.22                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 5.27                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 7.38                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 8.43                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 10.54                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 11.59                     |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0576 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal .....                  | 33.74                     | 11.94                   |
| For Work In Restricted Working Space, Add  | 7.17                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.95                     |                         |
| For Elevated Installation >40', Add  | 13.15                     |                         |
| 26 05 33 13-0577 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....              | 40.56                     | 13.36                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| 26 05 33 13-0578 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal .....                  | 47.30                     | 14.76                   |
| For Work In Restricted Working Space, Add  | 8.86                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.95                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.90                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.38                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.33                     |                         |
| For Elevated Installation >30' To 35', Add   | 11.81                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.76                     |                         |
| For Elevated Installation >40', Add  | 16.24                     |                         |
| <b>26 05 33 13-0579 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0060)</b>  |                           |                         |
| 26 05 33 13-0580 EA 1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....                | 17.28                     | 8.44                    |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.43                      |                         |
| For Elevated Installation >40', Add  | 9.27                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.06                      |                         |
| 26 05 33 13-0581 EA 3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....                | 20.39                     | 9.84                    |
| For Work In Restricted Working Space, Add  | 5.90                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.97                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.92                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.89                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.87                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.84                      |                         |
| For Elevated Installation >40', Add  | 10.82                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.90                      |                         |
| 26 05 33 13-0582 EA 1" Rigid Galvanized Steel (RGS) Chase Nipple.....                  | 25.44                     | 11.94                   |
| For Work In Restricted Working Space, Add  | 7.17                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.95                     |                         |
| For Elevated Installation >40', Add  | 13.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 7.17                      |                         |
| 26 05 33 13-0583 EA 1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....              | 30.78                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 8.43                      |                         |
| 26 05 33 13-0584 EA 1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....              | 38.58                     | 17.57                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.54                     |                         |



|                         | MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|-------------------------|---|--|-------------------------|
| 26 05 33 13-0585        | EA 2" Rigid Galvanized Steel (RGS) Chase Nipple.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 47.74<br>12.65<br>4.22<br>8.43<br>10.54<br>14.76<br>16.86<br>21.08<br>23.19<br>12.65   | 21.08                   |
| 26 05 33 13-0586        | EA 2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 59.80<br>14.76<br>4.92<br>9.84<br>12.30<br>17.22<br>19.68<br>24.60<br>27.05<br>14.76   | 24.60                   |
| 26 05 33 13-0587        | EA 3" Rigid Galvanized Steel (RGS) Chase Nipple.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 67.11<br>16.87<br>5.62<br>11.24<br>14.06<br>19.68<br>22.49<br>28.11<br>30.92<br>16.87  | 28.11                   |
| 26 05 33 13-0588        | EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 82.50<br>18.98<br>6.33<br>12.65<br>15.81<br>22.14<br>25.30<br>31.63<br>34.79<br>18.98  | 31.62                   |
| 26 05 33 13-0589        | EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 110.61<br>21.08<br>7.03<br>14.05<br>17.57<br>24.59<br>28.11<br>35.14<br>38.65<br>21.08 | 35.14                   |
| <b>26 05 33 13-0590</b> | <b>Rigid Galvanized Steel (RGS) Pulling Elbow</b> <small>(26 05 33 13-0060)</small>   |  |                         |
| 26 05 33 13-0591        | EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i>  | 32.62<br>7.59<br>2.53<br>5.06<br>6.33<br>8.86<br>10.12<br>12.65<br>13.92               | 12.65                   |
| 26 05 33 13-0592        | EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i>  | 37.92<br>8.86<br>2.95<br>5.90<br>7.38<br>10.33<br>11.81<br>14.76<br>16.24              | 14.76                   |
| 26 05 33 13-0593        | EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i>  | 47.68<br>10.12<br>3.37<br>6.75<br>8.43<br>11.81<br>13.49<br>16.87<br>18.55             | 16.86                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0594 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....                              | 60.94                     | 21.08                   |
| For Work In Restricted Working Space, Add   | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.08                     |                         |
| For Elevated Installation >40', Add   | 23.19                     |                         |
| 26 05 33 13-0595 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....                              | 80.41                     | 25.30                   |
| For Work In Restricted Working Space, Add   | 15.18                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.06                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.12                     |                         |
| For Elevated Installation >20' To 25', Add  | 12.65                     |                         |
| For Elevated Installation >25' To 30', Add  | 17.71                     |                         |
| For Elevated Installation >30' To 35', Add  | 20.24                     |                         |
| For Elevated Installation >35' To 40', Add  | 25.30                     |                         |
| For Elevated Installation >40', Add   | 27.83                     |                         |
| 26 05 33 13-0596 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....                                  | 106.21                    | 29.52                   |
| For Work In Restricted Working Space, Add   | 17.71                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.90                      |                         |
| For Elevated Installation >15' To 20', Add  | 11.81                     |                         |
| For Elevated Installation >20' To 25', Add  | 14.76                     |                         |
| For Elevated Installation >25' To 30', Add  | 20.66                     |                         |
| For Elevated Installation >30' To 35', Add  | 23.61                     |                         |
| For Elevated Installation >35' To 40', Add  | 29.52                     |                         |
| For Elevated Installation >40', Add   | 32.47                     |                         |
| 26 05 33 13-0597 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....                              | 145.36                    | 33.73                   |
| For Work In Restricted Working Space, Add   | 20.24                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.75                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.49                     |                         |
| For Elevated Installation >20' To 25', Add  | 16.87                     |                         |
| For Elevated Installation >25' To 30', Add  | 23.61                     |                         |
| For Elevated Installation >30' To 35', Add  | 26.99                     |                         |
| For Elevated Installation >35' To 40', Add  | 33.74                     |                         |
| For Elevated Installation >40', Add   | 37.11                     |                         |
| 26 05 33 13-0598 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow.....                                  | 249.34                    | 42.16                   |
| For Work In Restricted Working Space, Add   | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add  | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.17                     |                         |
| For Elevated Installation >40', Add   | 46.38                     |                         |
| 26 05 33 13-0599 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0599)                   |                           |                         |
| Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening. |                           |                         |
| 26 05 33 13-0600 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0599)                   |                           |                         |
| Note: Includes field bending conduit up to and including 1".  |                           |                         |
| 26 05 33 13-0601 LF 1/2" Electrical Metallic Tubing (EMT) Conduit.....                                  | 7.26                      | 2.53                    |
| For >250 To 500, Deduct   | -0.05                     |                         |
| For >500 To 1,000, Deduct   | -0.39                     |                         |
| For >1,000, Deduct  | -0.57                     |                         |
| For Installation In Metal Stud Wall, Add  | 0.63                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add   | 1.58                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                                  | 0.95                      |                         |
| For Work In Restricted Working Space, Add   | 1.90                      |                         |
| For Elevated Installation >10' To 15', Add  | 0.63                      |                         |
| For Elevated Installation >15' To 20', Add  | 1.26                      |                         |
| For Elevated Installation >20' To 25', Add  | 1.58                      |                         |
| For Elevated Installation >25' To 30', Add  | 2.21                      |                         |
| For Elevated Installation >30' To 35', Add  | 2.53                      |                         |
| For Elevated Installation >35' To 40', Add  | 3.16                      |                         |
| For Elevated Installation >40', Add   | 3.48                      |                         |
| For Factory Applied Color Coating, Add  | 0.28                      |                         |
| 26 05 33 13-0602 LF 3/4" Electrical Metallic Tubing (EMT) Conduit.....                                  | 8.49                      | 2.82                    |
| For >250 To 500, Deduct   | -0.07                     |                         |
| For >500 To 1,000, Deduct   | -0.46                     |                         |
| For >1,000, Deduct  | -0.67                     |                         |
| For Installation In Metal Stud Wall, Add  | 0.70                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add   | 1.76                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                                  | 1.05                      |                         |
| For Work In Restricted Working Space, Add   | 2.11                      |                         |
| For Elevated Installation >10' To 15', Add  | 0.70                      |                         |
| For Elevated Installation >15' To 20', Add  | 1.40                      |                         |
| For Elevated Installation >20' To 25', Add  | 1.76                      |                         |
| For Elevated Installation >25' To 30', Add  | 2.46                      |                         |
| For Elevated Installation >30' To 35', Add  | 2.81                      |                         |
| For Elevated Installation >35' To 40', Add  | 3.51                      |                         |
| For Elevated Installation >40', Add   | 3.86                      |                         |
| For Factory Applied Color Coating, Add  | 0.44                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0603    LF    1" Electrical Metallic Tubing (EMT) Conduit.....      | 10.19                     | 3.10                    |
| <i>For &gt;250 To 500, Deduct</i>   | -0.12                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.57                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -0.83                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>                                 | 0.77                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>              | 1.93                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 1.16                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                | 2.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                            | 0.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                            | 1.55                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                            | 1.93                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                            | 2.71                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                            | 3.09                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                            | 3.87                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                                   | 4.25                      |                         |
| <i>For Factory Applied Color Coating, Add</i>                                   | 0.74                      |                         |
| 26 05 33 13-0604    LF    1-1/4" Electrical Metallic Tubing (EMT) Conduit ..... | 12.59                     | 3.49                    |
| <i>For &gt;250 To 500, Deduct</i>   | -0.19                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.73                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -1.04                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>                                 | 0.87                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>              | 2.18                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 1.31                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                | 2.62                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                            | 0.87                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                            | 1.74                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                            | 2.18                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                            | 3.05                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                            | 3.49                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                            | 4.36                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                                   | 4.80                      |                         |
| <i>For Factory Applied Color Coating, Add</i>                                   | 1.16                      |                         |
| 26 05 33 13-0605    LF    1-1/2" Electrical Metallic Tubing (EMT) Conduit ..... | 14.66                     | 3.94                    |
| <i>For &gt;250 To 500, Deduct</i>   | -0.24                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.85                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -1.22                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>                                 | 0.98                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>              | 2.46                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 1.48                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                | 2.95                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                            | 0.98                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                            | 1.97                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                            | 2.46                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                            | 3.44                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                            | 3.94                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                            | 4.92                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                                   | 5.41                      |                         |
| <i>For Factory Applied Color Coating, Add</i>                                   | 1.45                      |                         |
| 26 05 33 13-0606    LF    2" Electrical Metallic Tubing (EMT) Conduit.....      | 16.96                     | 4.50                    |
| <i>For &gt;250 To 500, Deduct</i>   | -0.29                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.99                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -1.42                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>                                 | 1.12                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>              | 2.81                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 1.69                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                | 3.37                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                            | 1.12                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                            | 2.25                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                            | 2.81                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                            | 3.93                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                            | 4.50                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                            | 5.62                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                                   | 6.18                      |                         |
| <i>For Factory Applied Color Coating, Add</i>                                   | 1.72                      |                         |
| 26 05 33 13-0607    LF    2-1/2" Electrical Metallic Tubing (EMT) Conduit ..... | 21.83                     | 5.34                    |
| <i>For &gt;250 To 500, Deduct</i>   | -0.42                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.30                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -1.85                     |                         |
| <i>For Installation In Metal Stud Wall, Add</i>                                 | 1.34                      |                         |
| <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>              | 3.34                      |                         |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>   | 2.00                      |                         |
| <i>For Work In Restricted Working Space, Add</i>                                | 4.01                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                            | 1.34                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                            | 2.67                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                            | 3.34                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                            | 4.68                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                            | 5.34                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                            | 6.68                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>                                   | 7.35                      |                         |
| <i>For Factory Applied Color Coating, Add</i>                                   | 2.54                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0608 LF 3" Electrical Metallic Tubing (EMT) Conduit.....  | 26.07                     | 6.18                    |
| For >250 To 500, Deduct   | -0.53                     |                         |
| For >500 To 1,000, Deduct   | -1.57                     |                         |
| For >1,000, Deduct  | -2.22                     |                         |
| For Installation In Metal Stud Wall, Add  | 1.55                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add   | 3.87                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                                      | 2.32                      |                         |
| For Work In Restricted Working Space, Add   | 4.64                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.55                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.09                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.87                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.41                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.18                      |                         |
| For Elevated Installation >35' To 40', Add  | 7.73                      |                         |
| For Elevated Installation >40', Add   | 8.50                      |                         |
| For Factory Applied Color Coating, Add  | 3.18                      |                         |
| 26 05 33 13-0609 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit.....                                    | 32.45                     | 7.30                    |
| For >250 To 500, Deduct   | -0.71                     |                         |
| For >500 To 1,000, Deduct   | -1.98                     |                         |
| For >1,000, Deduct  | -2.79                     |                         |
| For Installation In Metal Stud Wall, Add  | 1.83                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add   | 4.57                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                                      | 2.74                      |                         |
| For Work In Restricted Working Space, Add   | 5.48                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.40                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.14                      |                         |
| For Elevated Installation >40', Add   | 10.05                     |                         |
| For Factory Applied Color Coating, Add  | 4.25                      |                         |
| 26 05 33 13-0610 LF 4" Electrical Metallic Tubing (EMT) Conduit.....  | 42.76                     | 10.71                   |
| For >250 To 500, Deduct   | -0.80                     |                         |
| For >500 To 1,000, Deduct   | -2.54                     |                         |
| For >1,000, Deduct  | -3.61                     |                         |
| For Installation In Metal Stud Wall, Add  | 2.68                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add   | 6.70                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add                                      | 4.02                      |                         |
| For Work In Restricted Working Space, Add   | 8.04                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.68                      |                         |
| For Elevated Installation >15' To 20', Add  | 5.36                      |                         |
| For Elevated Installation >20' To 25', Add  | 6.70                      |                         |
| For Elevated Installation >25' To 30', Add  | 9.38                      |                         |
| For Elevated Installation >30' To 35', Add  | 10.72                     |                         |
| For Elevated Installation >35' To 40', Add  | 13.40                     |                         |
| For Elevated Installation >40', Add   | 14.73                     |                         |
| For Factory Applied Color Coating, Add  | 4.79                      |                         |
| <b>26 05 33 13-0611 Electrical Metallic Tubing (EMT) 90 Degree Elbows</b> <small>(26 05 33 13-0599)</small> |                           |                         |
| See CSI section 26 05 33 13-2319 for conduit field bending.   |                           |                         |
| 26 05 33 13-0612 EA 1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....                              | 18.31                     | 6.18                    |
| For Work In Restricted Working Space, Add   | 4.64                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.55                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.09                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.87                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.41                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.18                      |                         |
| For Elevated Installation >35' To 40', Add  | 7.73                      |                         |
| For Elevated Installation >40', Add   | 8.50                      |                         |
| 26 05 33 13-0613 EA 3/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....                              | 19.39                     | 6.74                    |
| For Work In Restricted Working Space, Add   | 5.06                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.43                      |                         |
| For Elevated Installation >40', Add   | 9.27                      |                         |
| 26 05 33 13-0614 EA 1" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....                                | 23.65                     | 7.88                    |
| For Work In Restricted Working Space, Add   | 5.90                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.97                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.94                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.92                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.89                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.87                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.84                      |                         |
| For Elevated Installation >40', Add   | 10.82                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow .....                           | 26.02                     | 8.44                    |
| <i>For Work In Restricted Working Space, Add</i>  | 6.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.11                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.22                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.27                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.38                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.54                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 11.59                     |                         |
| 26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow .....                           | 30.85                     | 10.12                   |
| <i>For Work In Restricted Working Space, Add</i>  | 7.59                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.53                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.06                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.33                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.86                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.12                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 12.65                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 13.92                     |                         |
| 26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....                                | 40.53                     | 12.93                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.70                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.23                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.46                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.08                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 11.31                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.93                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 16.16                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 17.78                     |                         |
| 26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow .....                           | 54.67                     | 14.62                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.96                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.65                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.31                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.79                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.62                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 20.10                     |                         |
| 26 05 33 13-0619 EA 3" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....                                | 70.04                     | 16.30                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.23                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.08                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.15                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.19                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.27                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.30                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 20.38                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 22.42                     |                         |
| 26 05 33 13-0620 EA 3-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow .....                           | 79.62                     | 17.99                   |
| <i>For Work In Restricted Working Space, Add</i>  | 13.49                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.50                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.00                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.25                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.74                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 17.99                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.49                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 24.74                     |                         |
| 26 05 33 13-0621 EA 4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....                                | 164.29                    | 46.88                   |
| <i>For Work In Restricted Working Space, Add</i>  | 35.16                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.72                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 23.44                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 29.30                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 41.02                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 46.88                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 58.61                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 64.47                     |                         |
| <b>26 05 33 13-0622 Electrical Metallic Tubing (EMT) 45 Degree Elbows</b> <small>(26 05 33 13-0599)</small> |                           |                         |
| <i>See CSI section 26 05 33 13-2319 for conduit field bending.</i>  |                           |                         |
| 26 05 33 13-0623 EA 1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....                              | 18.00                     | 6.18                    |
| <i>For Work In Restricted Working Space, Add</i>  | 4.64                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.55                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.09                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 3.87                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 5.41                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 6.18                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 7.73                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 8.50                      |                         |
| 26 05 33 13-0624 EA 3/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....                              | 19.57                     | 6.74                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.06                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.69                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.37                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 4.22                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 5.90                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 6.74                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 9.27                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0625 EA 1" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....                                   | 24.05                     | 7.88                    |
| For Work In Restricted Working Space, Add  | 5.90                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.97                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.92                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.89                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.87                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.84                      |                         |
| For Elevated Installation >40', Add  | 10.82                     |                         |
| 26 05 33 13-0626 EA 1-1/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....                              | 26.77                     | 8.44                    |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| 26 05 33 13-0627 EA 1-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....                              | 31.81                     | 10.12                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| 26 05 33 13-0628 EA 2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....                                   | 40.22                     | 12.93                   |
| For Work In Restricted Working Space, Add  | 9.70                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.23                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.46                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.08                      |                         |
| For Elevated Installation >25' To 30', Add   | 11.31                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.93                     |                         |
| For Elevated Installation >35' To 40', Add   | 16.16                     |                         |
| For Elevated Installation >40', Add  | 17.78                     |                         |
| 26 05 33 13-0629 EA 2-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....                              | 57.45                     | 14.62                   |
| For Work In Restricted Working Space, Add  | 10.96                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.65                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.31                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.14                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.79                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.62                     |                         |
| For Elevated Installation >35' To 40', Add   | 18.27                     |                         |
| For Elevated Installation >40', Add  | 20.10                     |                         |
| 26 05 33 13-0630 EA 3" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....                                   | 72.25                     | 16.30                   |
| For Work In Restricted Working Space, Add  | 12.23                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.08                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.15                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.19                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.27                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.30                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.38                     |                         |
| For Elevated Installation >40', Add  | 22.42                     |                         |
| 26 05 33 13-0631 EA 3-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....                              | 85.61                     | 17.99                   |
| For Work In Restricted Working Space, Add  | 13.49                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.50                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.00                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.25                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 17.99                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.49                     |                         |
| For Elevated Installation >40', Add  | 24.74                     |                         |
| 26 05 33 13-0632 EA 4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....                                   | 160.10                    | 46.88                   |
| For Work In Restricted Working Space, Add  | 35.16                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.72                     |                         |
| For Elevated Installation >15' To 20', Add   | 23.44                     |                         |
| For Elevated Installation >20' To 25', Add   | 29.30                     |                         |
| For Elevated Installation >25' To 30', Add   | 41.02                     |                         |
| For Elevated Installation >30' To 35', Add   | 46.88                     |                         |
| For Elevated Installation >35' To 40', Add   | 58.61                     |                         |
| For Elevated Installation >40', Add  | 64.47                     |                         |
| <b>26 05 33 13-0633 Electrical Metallic Tubing (EMT) Set Screw Couplings</b> <small>(26 05 33 13-0599)</small> |                           |                         |
| 26 05 33 13-0634 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....                              | 7.35                      | 3.38                    |
| For Work In Restricted Working Space, Add  | 2.11                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.70                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.40                      |                         |
| For Elevated Installation >20' To 25', Add   | 1.76                      |                         |
| For Elevated Installation >25' To 30', Add   | 2.46                      |                         |
| For Elevated Installation >30' To 35', Add   | 2.81                      |                         |
| For Elevated Installation >35' To 40', Add   | 3.51                      |                         |
| For Elevated Installation >40', Add  | 3.86                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0635 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....    | 8.91                      | 3.38                    |
| <i>For Work In Restricted Working Space, Add</i>                                     | 2.53                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 0.84                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 1.69                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 2.11                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 2.95                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 3.37                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 4.22                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 4.64                      |                         |
| 26 05 33 13-0636 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....      | 10.57                     | 3.94                    |
| <i>For Work In Restricted Working Space, Add</i>                                     | 2.95                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 0.98                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 1.97                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 2.46                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 3.44                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 3.94                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 4.92                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 5.41                      |                         |
| 26 05 33 13-0637 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling ..... | 14.25                     | 5.06                    |
| <i>For Work In Restricted Working Space, Add</i>                                     | 3.80                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 1.27                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 2.53                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 3.16                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 4.43                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 5.06                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 6.33                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 6.96                      |                         |
| 26 05 33 13-0638 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling ..... | 17.57                     | 6.18                    |
| <i>For Work In Restricted Working Space, Add</i>                                     | 4.64                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 1.55                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 3.09                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 3.87                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 5.41                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 6.18                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 7.73                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 8.50                      |                         |
| 26 05 33 13-0639 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....      | 23.90                     | 8.44                    |
| <i>For Work In Restricted Working Space, Add</i>                                     | 6.32                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 2.11                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 4.22                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 5.27                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 7.38                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 8.43                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 10.54                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 11.59                     |                         |
| 26 05 33 13-0640 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling ..... | 33.05                     | 11.24                   |
| <i>For Work In Restricted Working Space, Add</i>                                     | 8.44                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 2.81                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 5.62                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 7.03                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 9.84                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 11.25                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 14.06                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 15.47                     |                         |
| 26 05 33 13-0641 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....      | 42.80                     | 12.93                   |
| <i>For Work In Restricted Working Space, Add</i>                                     | 10.54                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 3.51                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 7.03                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 8.79                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 12.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 14.06                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 17.57                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 19.33                     |                         |
| 26 05 33 13-0642 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling ..... | 48.23                     | 14.06                   |
| <i>For Work In Restricted Working Space, Add</i>                                     | 12.65                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 4.22                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 8.43                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 10.54                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 14.76                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 16.86                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 21.08                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 23.19                     |                         |
| 26 05 33 13-0643 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....      | 136.55                    | 38.84                   |
| <i>For Work In Restricted Working Space, Add</i>                                     | 37.72                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>                                 | 12.57                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>                                 | 25.15                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>                                 | 31.44                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>                                 | 44.01                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>                                 | 50.30                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>                                 | 62.87                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 69.16                     |                         |

26 05 33 13-0644 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0599)



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0645 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling .....    | 9.25                      | 3.38                    |
| For Work In Restricted Working Space, Add  | 2.53                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.84                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.69                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.11                      |                         |
| For Elevated Installation >25' To 30', Add   | 2.95                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.38                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.22                      |                         |
| For Elevated Installation >40', Add  | 4.64                      |                         |
| 26 05 33 13-0646 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling .....   | 10.73                     | 3.94                    |
| For Work In Restricted Working Space, Add  | 2.95                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.98                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.97                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.46                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.44                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.94                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.92                      |                         |
| For Elevated Installation >40', Add  | 5.41                      |                         |
| 26 05 33 13-0647 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling .....     | 15.30                     | 5.62                    |
| For Work In Restricted Working Space, Add  | 4.22                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.41                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.81                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.52                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.92                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.62                      |                         |
| For Elevated Installation >35' To 40', Add   | 7.03                      |                         |
| For Elevated Installation >40', Add  | 7.73                      |                         |
| 26 05 33 13-0648 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling ..... | 19.45                     | 6.74                    |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.43                      |                         |
| For Elevated Installation >40', Add  | 9.27                      |                         |
| 26 05 33 13-0649 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling ..... | 23.32                     | 7.88                    |
| For Work In Restricted Working Space, Add  | 5.90                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.97                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.92                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.89                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.87                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.84                      |                         |
| For Elevated Installation >40', Add  | 10.82                     |                         |
| 26 05 33 13-0650 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling .....     | 31.03                     | 10.12                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| 26 05 33 13-0651 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling ..... | 48.70                     | 13.50                   |
| For Work In Restricted Working Space, Add  | 10.12                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.37                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.43                      |                         |
| For Elevated Installation >25' To 30', Add   | 11.81                     |                         |
| For Elevated Installation >30' To 35', Add   | 13.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 16.87                     |                         |
| For Elevated Installation >40', Add  | 18.55                     |                         |
| 26 05 33 13-0652 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling .....     | 56.37                     | 15.74                   |
| For Work In Restricted Working Space, Add  | 11.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.87                      |                         |
| For Elevated Installation >20' To 25', Add   | 9.84                      |                         |
| For Elevated Installation >25' To 30', Add   | 13.78                     |                         |
| For Elevated Installation >30' To 35', Add   | 15.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 19.68                     |                         |
| For Elevated Installation >40', Add  | 21.65                     |                         |
| 26 05 33 13-0653 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling ..... | 70.47                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 14.76                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.92                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.84                      |                         |
| For Elevated Installation >20' To 25', Add   | 12.30                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 24.60                     |                         |
| For Elevated Installation >40', Add  | 27.05                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0654 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....                           | 90.39                     | 25.30                   |
| For Work In Restricted Working Space, Add   | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add  | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add  | 31.63                     |                         |
| For Elevated Installation >40', Add   | 34.79                     |                         |
| <b>26 05 33 13-0655 Electrical Metallic Tubing (EMT) Raintight Compression Couplings (26 05 33 13-0599)</b> | <b>10.42</b>              | <b>3.38</b>             |
| 26 05 33 13-0656 EA 1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....                | 10.42                     | 3.38                    |
| For Work In Restricted Working Space, Add   | 2.53                      |                         |
| For Elevated Installation >10' To 15', Add  | 0.84                      |                         |
| For Elevated Installation >15' To 20', Add  | 1.69                      |                         |
| For Elevated Installation >20' To 25', Add  | 2.11                      |                         |
| For Elevated Installation >25' To 30', Add  | 2.95                      |                         |
| For Elevated Installation >30' To 35', Add  | 3.38                      |                         |
| For Elevated Installation >35' To 40', Add  | 4.22                      |                         |
| For Elevated Installation >40', Add   | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 2.53                      |                         |
| 26 05 33 13-0657 EA 3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....               | 12.01                     | 3.94                    |
| For Work In Restricted Working Space, Add   | 2.95                      |                         |
| For Elevated Installation >10' To 15', Add  | 0.98                      |                         |
| For Elevated Installation >15' To 20', Add  | 1.97                      |                         |
| For Elevated Installation >20' To 25', Add  | 2.46                      |                         |
| For Elevated Installation >25' To 30', Add  | 3.44                      |                         |
| For Elevated Installation >30' To 35', Add  | 3.94                      |                         |
| For Elevated Installation >35' To 40', Add  | 4.92                      |                         |
| For Elevated Installation >40', Add   | 5.41                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 2.95                      |                         |
| 26 05 33 13-0658 EA 1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....                 | 17.72                     | 5.62                    |
| For Work In Restricted Working Space, Add   | 4.22                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.41                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.81                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.52                      |                         |
| For Elevated Installation >25' To 30', Add  | 4.92                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.62                      |                         |
| For Elevated Installation >35' To 40', Add  | 7.03                      |                         |
| For Elevated Installation >40', Add   | 7.73                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 4.22                      |                         |
| 26 05 33 13-0659 EA 1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....             | 22.39                     | 6.74                    |
| For Work In Restricted Working Space, Add   | 5.06                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.43                      |                         |
| For Elevated Installation >40', Add   | 9.27                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 5.06                      |                         |
| 26 05 33 13-0660 EA 1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....             | 28.55                     | 7.88                    |
| For Work In Restricted Working Space, Add   | 5.90                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.97                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.94                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.92                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.89                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.87                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.84                      |                         |
| For Elevated Installation >40', Add   | 10.82                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 5.90                      |                         |
| 26 05 33 13-0661 EA 2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....                 | 34.80                     | 9.56                    |
| For Work In Restricted Working Space, Add   | 7.17                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add  | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add  | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add  | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add  | 11.95                     |                         |
| For Elevated Installation >40', Add   | 13.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 7.17                      |                         |
| 26 05 33 13-0662 EA 2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....             | 46.82                     | 12.93                   |
| For Work In Restricted Working Space, Add   | 9.70                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.23                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.46                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.08                      |                         |
| For Elevated Installation >25' To 30', Add  | 11.31                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.93                     |                         |
| For Elevated Installation >35' To 40', Add  | 16.16                     |                         |
| For Elevated Installation >40', Add   | 17.78                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 9.70                      |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0663 EA 3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....     | 59.05                     | 15.74                   |
| For Work In Restricted Working Space, Add   | 11.81                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.87                      |                         |
| For Elevated Installation >20' To 25', Add  | 9.84                      |                         |
| For Elevated Installation >25' To 30', Add  | 13.78                     |                         |
| For Elevated Installation >30' To 35', Add  | 15.74                     |                         |
| For Elevated Installation >35' To 40', Add  | 19.68                     |                         |
| For Elevated Installation >40', Add   | 21.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 11.81                     |                         |
| 26 05 33 13-0664 EA 3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling..... | 77.69                     | 19.68                   |
| For Work In Restricted Working Space, Add   | 14.76                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.92                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.84                      |                         |
| For Elevated Installation >20' To 25', Add  | 12.30                     |                         |
| For Elevated Installation >25' To 30', Add  | 17.22                     |                         |
| For Elevated Installation >30' To 35', Add  | 19.68                     |                         |
| For Elevated Installation >35' To 40', Add  | 24.60                     |                         |
| For Elevated Installation >40', Add   | 27.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 14.76                     |                         |
| 26 05 33 13-0665 EA 4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....     | 95.10                     | 25.30                   |
| For Work In Restricted Working Space, Add   | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add  | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add  | 31.63                     |                         |
| For Elevated Installation >40', Add   | 34.79                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 18.98                     |                         |
| <b>26 05 33 13-0666 Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0599)</b>   |                           |                         |
| 26 05 33 13-0667 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....                | 9.53                      | 3.80                    |
| For Work In Restricted Working Space, Add   | 2.83                      |                         |
| For Elevated Installation >10' To 15', Add  | 0.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 1.88                      |                         |
| For Elevated Installation >20' To 25', Add  | 2.36                      |                         |
| For Elevated Installation >25' To 30', Add  | 3.30                      |                         |
| For Elevated Installation >30' To 35', Add  | 3.77                      |                         |
| For Elevated Installation >35' To 40', Add  | 4.71                      |                         |
| For Elevated Installation >40', Add   | 5.18                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 2.83                      |                         |
| 26 05 33 13-0668 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....                | 10.43                     | 4.08                    |
| For Work In Restricted Working Space, Add   | 3.08                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.05                      |                         |
| For Elevated Installation >20' To 25', Add  | 2.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 3.59                      |                         |
| For Elevated Installation >30' To 35', Add  | 4.10                      |                         |
| For Elevated Installation >35' To 40', Add  | 5.13                      |                         |
| For Elevated Installation >40', Add   | 5.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 3.08                      |                         |
| 26 05 33 13-0669 EA 1" Electrical Metallic Tubing (EMT) Insulated Bushing.....                  | 13.06                     | 5.06                    |
| For Work In Restricted Working Space, Add   | 3.75                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.25                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.50                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.13                      |                         |
| For Elevated Installation >25' To 30', Add  | 4.38                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.00                      |                         |
| For Elevated Installation >35' To 40', Add  | 6.26                      |                         |
| For Elevated Installation >40', Add   | 6.88                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 3.75                      |                         |
| 26 05 33 13-0670 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....              | 16.69                     | 6.46                    |
| For Work In Restricted Working Space, Add   | 4.81                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.60                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.20                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.01                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.61                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.41                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.01                      |                         |
| For Elevated Installation >40', Add   | 8.81                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 4.81                      |                         |
| 26 05 33 13-0671 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....              | 19.76                     | 7.44                    |
| For Work In Restricted Working Space, Add   | 5.61                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.87                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.74                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.68                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.55                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.48                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.35                      |                         |
| For Elevated Installation >40', Add   | 10.29                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add          | 5.61                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0672 EA 2" Electrical Metallic Tubing (EMT) Insulated Bushing.....                                 | 24.27                     | 9.00                    |
| For Work In Restricted Working Space, Add  | 6.75                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.25                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.50                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.62                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.87                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.00                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.25                     |                         |
| For Elevated Installation >40', Add  | 12.37                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 6.75                      |                         |
| 26 05 33 13-0673 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing .....                            | 35.04                     | 12.51                   |
| For Work In Restricted Working Space, Add  | 9.36                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.24                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.80                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.92                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.48                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.60                     |                         |
| For Elevated Installation >40', Add  | 17.16                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 9.36                      |                         |
| 26 05 33 13-0674 EA 3" Electrical Metallic Tubing (EMT) Insulated Bushing.....                                 | 46.49                     | 16.58                   |
| For Work In Restricted Working Space, Add  | 12.48                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.16                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.32                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.40                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.56                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.64                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.80                     |                         |
| For Elevated Installation >40', Add  | 22.88                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 12.48                     |                         |
| 26 05 33 13-0675 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing .....                            | 59.58                     | 21.36                   |
| For Work In Restricted Working Space, Add  | 16.07                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.36                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.71                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.39                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 21.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 26.78                     |                         |
| For Elevated Installation >40', Add  | 29.45                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 16.07                     |                         |
| 26 05 33 13-0676 EA 4" Electrical Metallic Tubing (EMT) Insulated Bushing.....                                 | 76.99                     | 28.11                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 21.08                     |                         |
| <b>26 05 33 13-0677 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw<sup>(26)</sup></b> |                           |                         |
| <small>05 33 13-0599)</small>  |                           |                         |
| 26 05 33 13-0678 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....           | 7.28                      | 2.82                    |
| For Work In Restricted Working Space, Add  | 2.11                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.70                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.40                      |                         |
| For Elevated Installation >20' To 25', Add   | 1.76                      |                         |
| For Elevated Installation >25' To 30', Add   | 2.46                      |                         |
| For Elevated Installation >30' To 35', Add   | 2.81                      |                         |
| For Elevated Installation >35' To 40', Add   | 3.51                      |                         |
| For Elevated Installation >40', Add  | 3.86                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 2.11                      |                         |
| 26 05 33 13-0679 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....           | 8.86                      | 3.38                    |
| For Work In Restricted Working Space, Add  | 2.53                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.84                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.69                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.11                      |                         |
| For Elevated Installation >25' To 30', Add   | 2.95                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.38                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.22                      |                         |
| For Elevated Installation >40', Add  | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 2.53                      |                         |
| 26 05 33 13-0680 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....             | 10.57                     | 3.94                    |
| For Work In Restricted Working Space, Add  | 2.95                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.98                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.97                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.46                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.44                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.94                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.92                      |                         |
| For Elevated Installation >40', Add  | 5.41                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 2.95                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0681 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 15.41                     | 5.62                    |
| For Work In Restricted Working Space, Add  | 4.22                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.41                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.81                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.52                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.92                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.62                      |                         |
| For Elevated Installation >35' To 40', Add   | 7.03                      |                         |
| For Elevated Installation >40', Add  | 7.73                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 4.22                      |                         |
| 26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 18.82                     | 6.74                    |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.43                      |                         |
| For Elevated Installation >40', Add  | 9.27                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 5.06                      |                         |
| 26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 23.98                     | 8.44                    |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 6.32                      |                         |
| 26 05 33 13-0684 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 36.20                     | 11.24                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.43                      |                         |
| 26 05 33 13-0685 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 45.03                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 10.54                     |                         |
| 26 05 33 13-0686 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 53.27                     | 16.86                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.65                     |                         |
| 26 05 33 13-0687 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....   | 62.05                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 14.76                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.92                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.84                      |                         |
| For Elevated Installation >20' To 25', Add   | 12.30                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 24.60                     |                         |
| For Elevated Installation >40', Add  | 27.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 14.76                     |                         |
| <b>26 05 33 13-0688 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw</b><br><small>(26 05 33 13-0599)</small> |                           |                         |
| 26 05 33 13-0689 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....                                | 9.85                      | 3.80                    |
| For Work In Restricted Working Space, Add  | 2.83                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.88                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.36                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.30                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.77                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.71                      |                         |
| For Elevated Installation >40', Add  | 5.18                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 2.83                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0690 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....   | 10.95                     | 4.08                    |
| For Work In Restricted Working Space, Add   | 3.08                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.05                      |                         |
| For Elevated Installation >20' To 25', Add  | 2.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 3.59                      |                         |
| For Elevated Installation >30' To 35', Add  | 4.10                      |                         |
| For Elevated Installation >35' To 40', Add  | 5.13                      |                         |
| For Elevated Installation >40', Add   | 5.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 3.08                      |                         |
| 26 05 33 13-0691 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....     | 13.74                     | 5.06                    |
| For Work In Restricted Working Space, Add   | 3.75                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.25                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.50                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.13                      |                         |
| For Elevated Installation >25' To 30', Add  | 4.38                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.00                      |                         |
| For Elevated Installation >35' To 40', Add  | 6.26                      |                         |
| For Elevated Installation >40', Add   | 6.88                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 3.75                      |                         |
| 26 05 33 13-0692 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw ..... | 18.07                     | 6.46                    |
| For Work In Restricted Working Space, Add   | 4.81                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.60                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.20                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.01                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.61                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.41                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.01                      |                         |
| For Elevated Installation >40', Add   | 8.81                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 4.81                      |                         |
| 26 05 33 13-0693 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw ..... | 21.42                     | 7.44                    |
| For Work In Restricted Working Space, Add   | 5.61                      |                         |
| For Elevated Installation >10' To 15', Add  | 1.87                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.74                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.68                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.55                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.48                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.35                      |                         |
| For Elevated Installation >40', Add   | 10.29                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 5.61                      |                         |
| 26 05 33 13-0694 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....     | 26.23                     | 9.00                    |
| For Work In Restricted Working Space, Add   | 6.75                      |                         |
| For Elevated Installation >10' To 15', Add  | 2.25                      |                         |
| For Elevated Installation >15' To 20', Add  | 4.50                      |                         |
| For Elevated Installation >20' To 25', Add  | 5.62                      |                         |
| For Elevated Installation >25' To 30', Add  | 7.87                      |                         |
| For Elevated Installation >30' To 35', Add  | 9.00                      |                         |
| For Elevated Installation >35' To 40', Add  | 11.25                     |                         |
| For Elevated Installation >40', Add   | 12.37                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 6.75                      |                         |
| 26 05 33 13-0695 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw ..... | 43.45                     | 12.51                   |
| For Work In Restricted Working Space, Add   | 9.36                      |                         |
| For Elevated Installation >10' To 15', Add  | 3.12                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.24                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.80                      |                         |
| For Elevated Installation >25' To 30', Add  | 10.92                     |                         |
| For Elevated Installation >30' To 35', Add  | 12.48                     |                         |
| For Elevated Installation >35' To 40', Add  | 15.60                     |                         |
| For Elevated Installation >40', Add   | 17.16                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 9.36                      |                         |
| 26 05 33 13-0696 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....     | 56.25                     | 16.58                   |
| For Work In Restricted Working Space, Add   | 12.48                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.16                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.32                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.40                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.56                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.64                     |                         |
| For Elevated Installation >35' To 40', Add  | 20.80                     |                         |
| For Elevated Installation >40', Add   | 22.88                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 12.48                     |                         |
| 26 05 33 13-0697 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw ..... | 71.86                     | 21.36                   |
| For Work In Restricted Working Space, Add   | 16.07                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.36                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.71                     |                         |
| For Elevated Installation >20' To 25', Add  | 13.39                     |                         |
| For Elevated Installation >25' To 30', Add  | 18.74                     |                         |
| For Elevated Installation >30' To 35', Add  | 21.42                     |                         |
| For Elevated Installation >35' To 40', Add  | 26.78                     |                         |
| For Elevated Installation >40', Add   | 29.45                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                            | 16.07                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR  | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|--|---------|-----|---|---|----------------------|
| 26 05 33   | 13-0698 | EA  | 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 90.42<br>21.08<br>7.03<br>14.05<br>17.57<br>24.59<br>28.11<br>35.14<br>38.65<br>21.08 | 28.11                |
| <b>26 05 33 13-0699 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33 13-0599)</small></b> |         |     |   |   |                      |
| 26 05 33   | 13-0700 | EA  | 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 8.86<br>2.53<br>0.84<br>1.69<br>2.11<br>2.95<br>3.38<br>4.22<br>4.64<br>2.53          | 3.38                 |
| 26 05 33   | 13-0701 | EA  | 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 10.48<br>2.95<br>0.98<br>1.97<br>2.46<br>3.44<br>3.94<br>4.92<br>5.41<br>2.95         | 3.94                 |
| 26 05 33   | 13-0702 | EA  | 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 14.96<br>4.22<br>1.41<br>2.81<br>3.52<br>4.92<br>5.62<br>7.03<br>7.73<br>4.22         | 5.62                 |
| 26 05 33   | 13-0703 | EA  | 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 18.56<br>5.06<br>1.69<br>3.37<br>4.22<br>5.90<br>6.74<br>8.43<br>9.27<br>5.06         | 6.74                 |
| 26 05 33   | 13-0704 | EA  | 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 22.08<br>5.90<br>1.97<br>3.94<br>4.92<br>6.89<br>7.87<br>9.84<br>10.82<br>5.90        | 7.88                 |
| 26 05 33   | 13-0705 | EA  | 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 28.78<br>7.59<br>2.53<br>5.06<br>6.33<br>8.86<br>10.12<br>12.65<br>13.92<br>7.59      | 10.12                |
| 26 05 33   | 13-0706 | EA  | 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 44.20<br>10.12<br>3.37<br>6.75<br>8.43<br>11.81<br>13.49<br>16.87<br>18.55<br>10.12   | 13.50                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0707 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....                | 55.85                     | 16.86                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 12.65                     |                         |
| 26 05 33 13-0708 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....            | 70.29                     | 19.68                   |
| For Work In Restricted Working Space, Add  | 14.76                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.92                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.84                      |                         |
| For Elevated Installation >20' To 25', Add   | 12.30                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.22                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 24.60                     |                         |
| For Elevated Installation >40', Add  | 27.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 14.76                     |                         |
| 26 05 33 13-0709 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....                | 79.11                     | 22.49                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.11                     |                         |
| For Elevated Installation >40', Add  | 30.92                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 16.87                     |                         |
| <br>   |                           |                         |
| <b>26 05 33 13-0710 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors</b>         |                           |                         |
| <small>(26 05 33 13-0599)</small>  |                           |                         |
| 26 05 33 13-0711 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....   | 10.14                     | 3.80                    |
| For Work In Restricted Working Space, Add  | 2.83                      |                         |
| For Elevated Installation >10' To 15', Add   | 0.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.88                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.36                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.30                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.77                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.71                      |                         |
| For Elevated Installation >40', Add  | 5.18                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 2.83                      |                         |
| 26 05 33 13-0712 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....   | 11.25                     | 4.08                    |
| For Work In Restricted Working Space, Add  | 3.08                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.05                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.57                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 4.10                      |                         |
| For Elevated Installation >35' To 40', Add   | 5.13                      |                         |
| For Elevated Installation >40', Add  | 5.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 3.08                      |                         |
| 26 05 33 13-0713 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....     | 13.99                     | 5.06                    |
| For Work In Restricted Working Space, Add  | 3.75                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.25                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.50                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.13                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.00                      |                         |
| For Elevated Installation >35' To 40', Add   | 6.26                      |                         |
| For Elevated Installation >40', Add  | 6.88                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 3.75                      |                         |
| 26 05 33 13-0714 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... | 18.79                     | 6.46                    |
| For Work In Restricted Working Space, Add  | 4.81                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.60                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.20                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.01                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.61                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.41                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.01                      |                         |
| For Elevated Installation >40', Add  | 8.81                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 4.81                      |                         |
| 26 05 33 13-0715 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... | 22.62                     | 7.44                    |
| For Work In Restricted Working Space, Add  | 5.61                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.87                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.74                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.55                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.48                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.35                      |                         |
| For Elevated Installation >40', Add  | 10.29                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 5.61                      |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0716 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....      | 27.96                     | 9.00                    |
| For Work In Restricted Working Space, Add  | 6.75                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.25                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.50                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.62                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.87                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.00                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.25                     |                         |
| For Elevated Installation >40', Add  | 12.37                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 6.75                      |                         |
| 26 05 33 13-0717 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... | 49.76                     | 12.51                   |
| For Work In Restricted Working Space, Add  | 9.36                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.24                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.80                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.92                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.48                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.60                     |                         |
| For Elevated Installation >40', Add  | 17.16                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 9.36                      |                         |
| 26 05 33 13-0718 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....      | 66.85                     | 16.58                   |
| For Work In Restricted Working Space, Add  | 12.48                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.16                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.32                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.40                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.56                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.64                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.80                     |                         |
| For Elevated Installation >40', Add  | 22.88                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 12.48                     |                         |
| 26 05 33 13-0719 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector ..... | 90.46                     | 21.36                   |
| For Work In Restricted Working Space, Add  | 16.07                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.36                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.71                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.39                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 21.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 26.78                     |                         |
| For Elevated Installation >40', Add  | 29.45                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 16.07                     |                         |
| 26 05 33 13-0720 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....      | 113.44                    | 28.11                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 21.08                     |                         |
| <b>26 05 33 13-0721 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0599)</b>                 |                           |                         |
| Note: Excludes jumper.   |                           |                         |
| 26 05 33 13-0722 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....                             | 76.05                     | 18.70                   |
| For Work In Restricted Working Space, Add  | 14.03                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.68                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.35                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.69                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.37                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.71                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.39                     |                         |
| For Elevated Installation >40', Add  | 25.72                     |                         |
| 26 05 33 13-0723 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling .....                             | 91.62                     | 22.63                   |
| For Work In Restricted Working Space, Add  | 17.01                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.34                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.18                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.85                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.35                     |                         |
| For Elevated Installation >40', Add  | 31.19                     |                         |
| 26 05 33 13-0724 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling .....                               | 112.56                    | 28.39                   |
| For Work In Restricted Working Space, Add  | 21.26                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.17                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.72                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.80                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.35                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.44                     |                         |
| For Elevated Installation >40', Add  | 38.98                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0725 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling .....                            | 145.60                    | 34.86                   |
| <i>For Work In Restricted Working Space, Add</i>  | 26.16                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.72                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.44                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.80                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.52                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 34.88                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 43.60                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 47.95                     |                         |
| 26 05 33 13-0726 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....                            | 180.97                    | 40.90                   |
| <i>For Work In Restricted Working Space, Add</i>  | 30.68                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.23                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.45                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.56                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.79                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.90                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 51.13                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 56.24                     |                         |
| 26 05 33 13-0727 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling .....                                | 226.87                    | 49.76                   |
| <i>For Work In Restricted Working Space, Add</i>  | 37.35                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.45                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 24.90                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.13                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 43.58                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 49.80                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 62.26                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 68.48                     |                         |
| 26 05 33 13-0728 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....                            | 433.92                    | 63.95                   |
| <i>For Work In Restricted Working Space, Add</i>  | 47.98                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 15.99                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 31.98                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 39.98                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 55.97                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 63.97                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 79.96                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 87.96                     |                         |
| 26 05 33 13-0729 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling .....                                | 530.81                    | 74.77                   |
| <i>For Work In Restricted Working Space, Add</i>  | 56.10                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 18.70                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 37.40                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 46.75                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 65.45                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 74.80                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 93.50                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 102.84                    |                         |
| 26 05 33 13-0730 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....                            | 652.18                    | 81.52                   |
| <i>For Work In Restricted Working Space, Add</i>  | 61.16                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 20.39                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 40.77                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 50.97                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 71.35                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 81.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 101.93                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 112.12                    |                         |
| 26 05 33 13-0731 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling .....                                | 705.85                    | 89.95                   |
| <i>For Work In Restricted Working Space, Add</i>  | 67.49                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 22.50                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 44.99                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 56.24                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 78.73                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 89.98                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 112.48                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 123.72                    |                         |
| <b>26 05 33 13-0732 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters</b>               |                           |                         |
| <small>(26 05 33 13-0599)</small>   |                           |                         |
| 26 05 33 13-0733 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter ..... | 14.25                     | 5.06                    |
| <i>For Work In Restricted Working Space, Add</i>  | 3.74                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.25                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.50                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 3.12                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 4.37                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 4.99                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 6.24                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 6.86                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 3.74                      |                         |
| 26 05 33 13-0734 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....         | 15.20                     | 5.06                    |
| <i>For Work In Restricted Working Space, Add</i>  | 3.74                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.25                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 2.50                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 3.12                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 4.37                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 4.99                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 6.24                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 6.86                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 3.74                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0735 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....   | 17.00                     | 5.48                    |
| For Work In Restricted Working Space, Add  | 4.16                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.39                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.77                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.47                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.85                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.55                      |                         |
| For Elevated Installation >35' To 40', Add   | 6.94                      |                         |
| For Elevated Installation >40', Add  | 7.63                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 4.16                      |                         |
| 26 05 33 13-0736 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....     | 19.79                     | 6.32                    |
| For Work In Restricted Working Space, Add  | 4.73                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.58                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.16                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.95                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.52                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.31                      |                         |
| For Elevated Installation >35' To 40', Add   | 7.89                      |                         |
| For Elevated Installation >40', Add  | 8.68                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 4.73                      |                         |
| 26 05 33 13-0737 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter..... | 28.18                     | 7.59                    |
| For Work In Restricted Working Space, Add  | 5.73                      |                         |
| For Elevated Installation >10' To 15', Add   | 1.91                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.82                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.77                      |                         |
| For Elevated Installation >25' To 30', Add   | 6.68                      |                         |
| For Elevated Installation >30' To 35', Add   | 7.64                      |                         |
| For Elevated Installation >35' To 40', Add   | 9.55                      |                         |
| For Elevated Installation >40', Add  | 10.50                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 5.73                      |                         |
| 26 05 33 13-0738 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter..... | 34.45                     | 8.72                    |
| For Work In Restricted Working Space, Add  | 6.54                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.18                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.36                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.45                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.63                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.72                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.91                     |                         |
| For Elevated Installation >40', Add  | 12.00                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 6.54                      |                         |
| 26 05 33 13-0739 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....     | 44.90                     | 10.96                   |
| For Work In Restricted Working Space, Add  | 8.18                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.45                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.82                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.54                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.90                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.63                     |                         |
| For Elevated Installation >40', Add  | 14.99                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 8.18                      |                         |
| <b>26 05 33 13-0740 Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0599)</b>               |                           |                         |
| 26 05 33 13-0741 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....            | 29.89                     | 12.65                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 7.59                      |                         |
| 26 05 33 13-0742 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....            | 34.84                     | 14.76                   |
| For Work In Restricted Working Space, Add  | 8.86                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.90                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 8.86                      |                         |
| 26 05 33 13-0743 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....              | 43.24                     | 16.86                   |
| For Work In Restricted Working Space, Add  | 10.12                     |                         |
| For Elevated Installation >15' To 20', Add   | 6.75                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 10.12                     |                         |
| 26 05 33 13-0744 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....          | 55.24                     | 21.08                   |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                   | 12.65                     |                         |
| <b>26 05 33 13-0745 Intermediate Metal Conduit (IMC) (26 05 33 13-0059)</b>                              |                           |                         |
| Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.  |                           |                         |
| <b>26 05 33 13-0746 Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0745)</b>                      |                           |                         |
| Note: Includes field bending conduit up to 1".   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0747    LF    1/2" Intermediate Metal Conduit (IMC) Conduit .....   | 9.86                      | 2.82                    |
| For >250 To 500, Deduct   | -0.13                     |                         |
| For >500 To 1,000, Deduct   | -0.19                     |                         |
| For >1,000, Deduct  | -0.26                     |                         |
| For Installation In Metal Stud Wall, Add  | 0.73                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                     | 1.83                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add          | 1.10                      |                         |
| For Work In Restricted Working Space, Add                                       | 2.19                      |                         |
| For Elevated Installation >10' To 15', Add                                      | 0.73                      |                         |
| For Elevated Installation >15' To 20', Add                                      | 1.46                      |                         |
| For Elevated Installation >20' To 25', Add                                      | 1.83                      |                         |
| For Elevated Installation >25' To 30', Add                                      | 2.56                      |                         |
| For Elevated Installation >30' To 35', Add                                      | 2.92                      |                         |
| For Elevated Installation >35' To 40', Add                                      | 3.65                      |                         |
| For Elevated Installation >40', Add   | 4.02                      |                         |
| 26 05 33 13-0748    LF    3/4" Intermediate Metal Conduit (IMC) Conduit .....   | 11.78                     | 3.10                    |
| For >250 To 500, Deduct   | -0.15                     |                         |
| For >500 To 1,000, Deduct   | -0.23                     |                         |
| For >1,000, Deduct  | -0.31                     |                         |
| For Installation In Metal Stud Wall, Add  | 0.87                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                     | 2.18                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add          | 1.31                      |                         |
| For Work In Restricted Working Space, Add                                       | 2.62                      |                         |
| For Elevated Installation >10' To 15', Add                                      | 0.87                      |                         |
| For Elevated Installation >15' To 20', Add                                      | 1.74                      |                         |
| For Elevated Installation >20' To 25', Add                                      | 2.18                      |                         |
| For Elevated Installation >25' To 30', Add                                      | 3.05                      |                         |
| For Elevated Installation >30' To 35', Add                                      | 3.49                      |                         |
| For Elevated Installation >35' To 40', Add                                      | 4.36                      |                         |
| For Elevated Installation >40', Add   | 4.80                      |                         |
| 26 05 33 13-0749    LF    1" Intermediate Metal Conduit (IMC) Conduit .....     | 15.68                     | 3.38                    |
| For >250 To 500, Deduct   | -0.24                     |                         |
| For >500 To 1,000, Deduct   | -0.35                     |                         |
| For >1,000, Deduct  | -0.47                     |                         |
| For Installation In Metal Stud Wall, Add  | 1.10                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                     | 2.74                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add          | 1.64                      |                         |
| For Work In Restricted Working Space, Add                                       | 3.29                      |                         |
| For Elevated Installation >10' To 15', Add                                      | 1.10                      |                         |
| For Elevated Installation >15' To 20', Add                                      | 2.19                      |                         |
| For Elevated Installation >20' To 25', Add                                      | 2.74                      |                         |
| For Elevated Installation >25' To 30', Add                                      | 3.84                      |                         |
| For Elevated Installation >30' To 35', Add                                      | 4.38                      |                         |
| For Elevated Installation >35' To 40', Add                                      | 5.48                      |                         |
| For Elevated Installation >40', Add   | 6.03                      |                         |
| 26 05 33 13-0750    LF    1-1/4" Intermediate Metal Conduit (IMC) Conduit ..... | 18.06                     | 6.74                    |
| For >250 To 500, Deduct   | -0.30                     |                         |
| For >500 To 1,000, Deduct   | -0.45                     |                         |
| For >1,000, Deduct  | -0.60                     |                         |
| For Installation In Metal Stud Wall, Add  | 1.21                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                     | 3.02                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add          | 1.81                      |                         |
| For Work In Restricted Working Space, Add                                       | 3.62                      |                         |
| For Elevated Installation >10' To 15', Add                                      | 1.21                      |                         |
| For Elevated Installation >15' To 20', Add                                      | 2.42                      |                         |
| For Elevated Installation >20' To 25', Add                                      | 3.02                      |                         |
| For Elevated Installation >25' To 30', Add                                      | 4.23                      |                         |
| For Elevated Installation >30' To 35', Add                                      | 4.83                      |                         |
| For Elevated Installation >35' To 40', Add                                      | 6.04                      |                         |
| For Elevated Installation >40', Add   | 6.64                      |                         |
| 26 05 33 13-0751    LF    1-1/2" Intermediate Metal Conduit (IMC) Conduit ..... | 20.28                     | 4.50                    |
| For >250 To 500, Deduct   | -0.35                     |                         |
| For >500 To 1,000, Deduct   | -0.53                     |                         |
| For >1,000, Deduct  | -0.71                     |                         |
| For Installation In Metal Stud Wall, Add  | 1.32                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add                     | 3.31                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add          | 1.98                      |                         |
| For Work In Restricted Working Space, Add                                       | 3.97                      |                         |
| For Elevated Installation >10' To 15', Add                                      | 1.32                      |                         |
| For Elevated Installation >15' To 20', Add                                      | 2.64                      |                         |
| For Elevated Installation >20' To 25', Add                                      | 3.31                      |                         |
| For Elevated Installation >25' To 30', Add                                      | 4.63                      |                         |
| For Elevated Installation >30' To 35', Add                                      | 5.29                      |                         |
| For Elevated Installation >35' To 40', Add                                      | 6.61                      |                         |
| For Elevated Installation >40', Add   | 7.27                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0752 LF 2" Intermediate Metal Conduit (IMC) Conduit .....     | 25.60                     | 5.06                    |
| For >250 To 500, Deduct   | -0.48                     |                         |
| For >500 To 1,000, Deduct   | -0.72                     |                         |
| For >1,000, Deduct  | -0.96                     |                         |
| For Installation In Metal Stud Wall, Add                                  | 1.60                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add               | 4.01                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add    | 2.40                      |                         |
| For Work In Restricted Working Space, Add                                 | 4.81                      |                         |
| For Elevated Installation >10' To 15', Add                                | 1.60                      |                         |
| For Elevated Installation >15' To 20', Add                                | 3.20                      |                         |
| For Elevated Installation >20' To 25', Add                                | 4.01                      |                         |
| For Elevated Installation >25' To 30', Add                                | 5.61                      |                         |
| For Elevated Installation >30' To 35', Add                                | 6.41                      |                         |
| For Elevated Installation >35' To 40', Add                                | 8.01                      |                         |
| For Elevated Installation >40', Add                                       | 8.81                      |                         |
| 26 05 33 13-0753 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit ..... | 42.45                     | 6.74                    |
| For >250 To 500, Deduct   | -1.06                     |                         |
| For >500 To 1,000, Deduct   | -1.59                     |                         |
| For >1,000, Deduct  | -2.12                     |                         |
| For Installation In Metal Stud Wall, Add                                  | 2.12                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add               | 5.31                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add    | 3.18                      |                         |
| For Work In Restricted Working Space, Add                                 | 6.37                      |                         |
| For Elevated Installation >10' To 15', Add                                | 2.12                      |                         |
| For Elevated Installation >15' To 20', Add                                | 4.24                      |                         |
| For Elevated Installation >20' To 25', Add                                | 5.31                      |                         |
| For Elevated Installation >25' To 30', Add                                | 7.43                      |                         |
| For Elevated Installation >30' To 35', Add                                | 8.49                      |                         |
| For Elevated Installation >35' To 40', Add                                | 10.61                     |                         |
| For Elevated Installation >40', Add                                       | 11.67                     |                         |
| 26 05 33 13-0754 LF 3" Intermediate Metal Conduit (IMC) Conduit .....     | 54.24                     | 8.44                    |
| For >250 To 500, Deduct   | -1.31                     |                         |
| For >500 To 1,000, Deduct   | -1.96                     |                         |
| For >1,000, Deduct  | -2.61                     |                         |
| For Installation In Metal Stud Wall, Add                                  | 2.81                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add               | 7.03                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add    | 4.22                      |                         |
| For Work In Restricted Working Space, Add                                 | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add                                | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add                                | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add                                | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add                                | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add                                | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add                                | 14.06                     |                         |
| For Elevated Installation >40', Add                                       | 15.46                     |                         |
| 26 05 33 13-0755 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit ..... | 62.44                     | 10.12                   |
| For >250 To 500, Deduct   | -1.51                     |                         |
| For >500 To 1,000, Deduct   | -2.27                     |                         |
| For >1,000, Deduct  | -3.03                     |                         |
| For Installation In Metal Stud Wall, Add                                  | 3.22                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add               | 8.05                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add    | 4.83                      |                         |
| For Work In Restricted Working Space, Add                                 | 9.65                      |                         |
| For Elevated Installation >10' To 15', Add                                | 3.22                      |                         |
| For Elevated Installation >15' To 20', Add                                | 6.44                      |                         |
| For Elevated Installation >20' To 25', Add                                | 8.05                      |                         |
| For Elevated Installation >25' To 30', Add                                | 11.26                     |                         |
| For Elevated Installation >30' To 35', Add                                | 12.87                     |                         |
| For Elevated Installation >35' To 40', Add                                | 16.09                     |                         |
| For Elevated Installation >40', Add                                       | 17.70                     |                         |
| 26 05 33 13-0756 LF 4" Intermediate Metal Conduit (IMC) Conduit .....     | 73.15                     | 11.80                   |
| For >250 To 500, Deduct   | -1.78                     |                         |
| For >500 To 1,000, Deduct   | -2.67                     |                         |
| For >1,000, Deduct  | -3.56                     |                         |
| For Installation In Metal Stud Wall, Add                                  | 3.75                      |                         |
| For Installation In Wood Stud Wall (Includes Drilling), Add               | 9.38                      |                         |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add    | 5.63                      |                         |
| For Work In Restricted Working Space, Add                                 | 11.26                     |                         |
| For Elevated Installation >10' To 15', Add                                | 3.75                      |                         |
| For Elevated Installation >15' To 20', Add                                | 7.51                      |                         |
| For Elevated Installation >20' To 25', Add                                | 9.38                      |                         |
| For Elevated Installation >25' To 30', Add                                | 13.14                     |                         |
| For Elevated Installation >30' To 35', Add                                | 15.01                     |                         |
| For Elevated Installation >35' To 40', Add                                | 18.77                     |                         |
| For Elevated Installation >40', Add                                       | 20.64                     |                         |

26 05 33 13-0757 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0745)  
See CSI section 26 05 33 13-2319 for conduit field bending.



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0758 EA 1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....   | 46.68                     | 13.92                   |
| For Work In Restricted Working Space, Add   | 10.47                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.49                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.98                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.73                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.22                     |                         |
| For Elevated Installation >30' To 35', Add  | 13.96                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.45                     |                         |
| For Elevated Installation >40', Add   | 19.20                     |                         |
| 26 05 33 13-0759 EA 3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....   | 56.61                     | 17.28                   |
| For Work In Restricted Working Space, Add   | 13.02                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.34                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.68                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.85                     |                         |
| For Elevated Installation >25' To 30', Add  | 15.19                     |                         |
| For Elevated Installation >30' To 35', Add  | 17.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 21.70                     |                         |
| For Elevated Installation >40', Add   | 23.86                     |                         |
| 26 05 33 13-0760 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....     | 71.70                     | 21.22                   |
| For Work In Restricted Working Space, Add   | 15.87                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.29                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.58                     |                         |
| For Elevated Installation >20' To 25', Add  | 13.23                     |                         |
| For Elevated Installation >25' To 30', Add  | 18.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 21.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 26.46                     |                         |
| For Elevated Installation >40', Add   | 29.10                     |                         |
| 26 05 33 13-0761 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow ..... | 87.79                     | 24.60                   |
| For Work In Restricted Working Space, Add   | 18.43                     |                         |
| For Elevated Installation >10' To 15', Add  | 6.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.29                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 21.50                     |                         |
| For Elevated Installation >30' To 35', Add  | 24.58                     |                         |
| For Elevated Installation >35' To 40', Add  | 30.72                     |                         |
| For Elevated Installation >40', Add   | 33.79                     |                         |
| 26 05 33 13-0762 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow ..... | 103.85                    | 28.25                   |
| For Work In Restricted Working Space, Add   | 21.16                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.05                      |                         |
| For Elevated Installation >15' To 20', Add  | 14.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.63                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.68                     |                         |
| For Elevated Installation >30' To 35', Add  | 28.21                     |                         |
| For Elevated Installation >35' To 40', Add  | 35.26                     |                         |
| For Elevated Installation >40', Add   | 38.79                     |                         |
| 26 05 33 13-0763 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....     | 125.54                    | 31.06                   |
| For Work In Restricted Working Space, Add   | 23.27                     |                         |
| For Elevated Installation >10' To 15', Add  | 7.76                      |                         |
| For Elevated Installation >15' To 20', Add  | 15.51                     |                         |
| For Elevated Installation >20' To 25', Add  | 19.39                     |                         |
| For Elevated Installation >25' To 30', Add  | 27.15                     |                         |
| For Elevated Installation >30' To 35', Add  | 31.03                     |                         |
| For Elevated Installation >35' To 40', Add  | 38.79                     |                         |
| For Elevated Installation >40', Add   | 42.66                     |                         |
| 26 05 33 13-0764 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow ..... | 178.43                    | 38.79                   |
| For Work In Restricted Working Space, Add   | 29.09                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.70                      |                         |
| For Elevated Installation >15' To 20', Add  | 19.39                     |                         |
| For Elevated Installation >20' To 25', Add  | 24.24                     |                         |
| For Elevated Installation >25' To 30', Add  | 33.94                     |                         |
| For Elevated Installation >30' To 35', Add  | 38.79                     |                         |
| For Elevated Installation >35' To 40', Add  | 48.49                     |                         |
| For Elevated Installation >40', Add   | 53.33                     |                         |
| 26 05 33 13-0765 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....     | 256.80                    | 52.85                   |
| For Work In Restricted Working Space, Add   | 39.63                     |                         |
| For Elevated Installation >10' To 15', Add  | 13.21                     |                         |
| For Elevated Installation >15' To 20', Add  | 26.42                     |                         |
| For Elevated Installation >20' To 25', Add  | 33.03                     |                         |
| For Elevated Installation >25' To 30', Add  | 46.24                     |                         |
| For Elevated Installation >30' To 35', Add  | 52.84                     |                         |
| For Elevated Installation >35' To 40', Add  | 66.05                     |                         |
| For Elevated Installation >40', Add   | 72.66                     |                         |
| 26 05 33 13-0766 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow ..... | 369.15                    | 59.59                   |
| For Work In Restricted Working Space, Add   | 44.70                     |                         |
| For Elevated Installation >10' To 15', Add  | 14.90                     |                         |
| For Elevated Installation >15' To 20', Add  | 29.80                     |                         |
| For Elevated Installation >20' To 25', Add  | 37.25                     |                         |
| For Elevated Installation >25' To 30', Add  | 52.15                     |                         |
| For Elevated Installation >30' To 35', Add  | 59.60                     |                         |
| For Elevated Installation >35' To 40', Add  | 74.50                     |                         |
| For Elevated Installation >40', Add   | 81.95                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0767 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....                                  | 449.29                    | 77.59                   |
| For Work In Restricted Working Space, Add  | 58.18                     |                         |
| For Elevated Installation >10' To 15', Add   | 19.39                     |                         |
| For Elevated Installation >15' To 20', Add   | 38.78                     |                         |
| For Elevated Installation >20' To 25', Add   | 48.48                     |                         |
| For Elevated Installation >25' To 30', Add   | 67.87                     |                         |
| For Elevated Installation >30' To 35', Add   | 77.57                     |                         |
| For Elevated Installation >35' To 40', Add   | 96.96                     |                         |
| For Elevated Installation >40', Add  | 106.66                    |                         |
| <b>26 05 33 13-0768 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0745)</b>          |                           |                         |
| 26 05 33 13-0769 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                        | 19.09                     | 7.30                    |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 5.48                      |                         |
| 26 05 33 13-0770 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                        | 22.48                     | 0.84                    |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 6.32                      |                         |
| 26 05 33 13-0771 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                          | 29.02                     | 10.68                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 8.01                      |                         |
| 26 05 33 13-0772 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                      | 35.42                     | 12.93                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 9.70                      |                         |
| 26 05 33 13-0773 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                      | 39.56                     | 14.06                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 10.54                     |                         |
| 26 05 33 13-0774 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                          | 50.85                     | 17.42                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 13.07                     |                         |
| 26 05 33 13-0775 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                      | 92.99                     | 28.11                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 21.08                     |                         |
| 26 05 33 13-0776 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                          | 115.77                    | 38.23                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 28.67                     |                         |
| 26 05 33 13-0777 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                      | 150.35                    | 45.54                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 34.16                     |                         |
| 26 05 33 13-0778 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....                          | 177.26                    | 52.85                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 39.63                     |                         |
| <b>26 05 33 13-0779 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0745)</b> |                           |                         |
| Note: 3-Piece coupling.  |                           |                         |
| 26 05 33 13-0780 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....               | 62.61                     | 22.49                   |
| For Work In Restricted Working Space, Add  | 16.89                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.63                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.26                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.07                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.52                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.15                     |                         |
| For Elevated Installation >40', Add  | 30.96                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 16.89                     |                         |
| 26 05 33 13-0781 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....               | 70.96                     | 25.16                   |
| For Work In Restricted Working Space, Add  | 18.85                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.28                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.56                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.71                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.13                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.41                     |                         |
| For Elevated Installation >40', Add  | 34.55                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 18.85                     |                         |
| 26 05 33 13-0782 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....                 | 85.67                     | 27.97                   |
| For Work In Restricted Working Space, Add  | 20.99                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.00                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.00                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.50                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.49                     |                         |
| For Elevated Installation >30' To 35', Add   | 27.99                     |                         |
| For Elevated Installation >35' To 40', Add   | 34.99                     |                         |
| For Elevated Installation >40', Add  | 38.49                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 20.99                     |                         |
| 26 05 33 13-0783 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....             | 105.44                    | 30.64                   |
| For Work In Restricted Working Space, Add  | 22.97                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.66                      |                         |
| For Elevated Installation >15' To 20', Add   | 15.31                     |                         |
| For Elevated Installation >20' To 25', Add   | 19.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 26.80                     |                         |
| For Elevated Installation >30' To 35', Add   | 30.63                     |                         |
| For Elevated Installation >35' To 40', Add   | 38.29                     |                         |
| For Elevated Installation >40', Add  | 42.11                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                         | 22.97                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0784 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting .....  | 120.01                    | 33.45                   |
| For Work In Restricted Working Space, Add  | 25.13                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.76                     |                         |
| For Elevated Installation >20' To 25', Add   | 20.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 29.32                     |                         |
| For Elevated Installation >30' To 35', Add   | 33.51                     |                         |
| For Elevated Installation >35' To 40', Add   | 41.89                     |                         |
| For Elevated Installation >40', Add  | 46.08                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 25.13                     |                         |
| 26 05 33 13-0785 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....   | 163.20                    | 36.26                   |
| For Work In Restricted Working Space, Add  | 27.22                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.07                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.15                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.68                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.29                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.37                     |                         |
| For Elevated Installation >40', Add  | 49.90                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 27.22                     |                         |
| 26 05 33 13-0786 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting .....  | 267.46                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 33.74                     |                         |
| 26 05 33 13-0787 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....   | 376.94                    | 56.22                   |
| For Work In Restricted Working Space, Add  | 42.17                     |                         |
| For Elevated Installation >10' To 15', Add   | 14.06                     |                         |
| For Elevated Installation >15' To 20', Add   | 28.11                     |                         |
| For Elevated Installation >20' To 25', Add   | 35.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 49.19                     |                         |
| For Elevated Installation >30' To 35', Add   | 56.22                     |                         |
| For Elevated Installation >35' To 40', Add   | 70.28                     |                         |
| For Elevated Installation >40', Add  | 77.30                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 42.17                     |                         |
| 26 05 33 13-0788 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting .....  | 548.49                    | 67.47                   |
| For Work In Restricted Working Space, Add  | 50.62                     |                         |
| For Elevated Installation >10' To 15', Add   | 16.87                     |                         |
| For Elevated Installation >15' To 20', Add   | 33.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.18                     |                         |
| For Elevated Installation >25' To 30', Add   | 59.05                     |                         |
| For Elevated Installation >30' To 35', Add   | 67.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 84.36                     |                         |
| For Elevated Installation >40', Add  | 92.80                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 50.62                     |                         |
| 26 05 33 13-0789 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....   | 632.22                    | 73.09                   |
| For Work In Restricted Working Space, Add  | 54.81                     |                         |
| For Elevated Installation >10' To 15', Add   | 18.27                     |                         |
| For Elevated Installation >15' To 20', Add   | 36.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 45.68                     |                         |
| For Elevated Installation >25' To 30', Add   | 63.95                     |                         |
| For Elevated Installation >30' To 35', Add   | 73.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 91.35                     |                         |
| For Elevated Installation >40', Add  | 100.49                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 54.81                     |                         |
| <b>26 05 33 13-0790 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To<br/>Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0745)</b> |                           |                         |
| 26 05 33 13-0791 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector .....               | 34.99                     | 11.24                   |
| For Work In Restricted Working Space, Add  | 8.43                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.81                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.62                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.84                      |                         |
| For Elevated Installation >30' To 35', Add   | 11.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 14.06                     |                         |
| For Elevated Installation >40', Add  | 15.46                     |                         |
| 26 05 33 13-0792 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector .....               | 39.06                     | 12.36                   |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-0793 | EA  | 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector .....     | 44.83                  | 14.06                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.51                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 8.79                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 19.33                  |                      |
| 26 05 33 | 13-0794 | EA  | 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector ..... | 50.74                  | 15.18                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 11.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.80                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 7.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 9.49                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 13.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 15.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 18.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 20.87                  |                      |
| 26 05 33 | 13-0795 | EA  | 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector ..... | 59.99                  | 16.86                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 14.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 16.86                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 23.19                  |                      |
| 26 05 33 | 13-0796 | EA  | 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector .....     | 72.73                  | 18.56                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.91                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.64                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.28                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 16.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.55                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.51                  |                      |
| 26 05 33 | 13-0797 | EA  | 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector ..... | 98.46                  | 22.49                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 30.92                  |                      |
| 26 05 33 | 13-0798 | EA  | 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector .....     | 121.81                 | 28.11                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.59                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.65                  |                      |
| 26 05 33 | 13-0799 | EA  | 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector ..... | 146.33                 | 33.73                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 29.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 33.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 46.38                  |                      |
| 26 05 33 | 13-0800 | EA  | 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT)<br>Connector .....     | 164.99                 | 36.54                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                  |                      |

26 05 33 13-0801 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0745)



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0802 | EA  | 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                                 | 30.99                  | 11.24                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.44                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.81                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 11.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.47                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.44                   |                      |
| 26 05 33 | 13-0803 | EA  | 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                                 | 39.44                  | 14.06                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.79                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.33                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54                  |                      |
| 26 05 33 | 13-0804 | EA  | 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                                   | 48.52                  | 16.86                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.86                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 23.19                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 12.65                  |                      |
| 26 05 33 | 13-0805 | EA  | 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                               | 58.19                  | 19.68                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 14.76                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.92                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 12.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 17.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 24.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 27.06                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 14.76                  |                      |
| 26 05 33 | 13-0806 | EA  | 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                               | 67.80                  | 22.49                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 16.86                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.62                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.67                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 30.92                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 16.86                  |                      |
| 26 05 33 | 13-0807 | EA  | 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                                   | 79.98                  | 25.30                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 18.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.32                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 22.13                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 31.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 34.76                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 18.97                  |                      |
| 26 05 33 | 13-0808 | EA  | 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                               | 98.33                  | 28.11                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.57                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.59                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 38.65                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 21.08                  |                      |
| 26 05 33 | 13-0809 | EA  | 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub                                   | 115.08                 | 30.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 42.52                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 23.19                  |                      |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0810 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub .....      | 140.34                    | 36.54                   |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 27.41                     |                         |
| 26 05 33 13-0811 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....           | 160.19                    | 39.36                   |
| For Work In Restricted Working Space, Add  | 29.51                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.84                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.60                     |                         |
| For Elevated Installation >25' To 30', Add   | 34.43                     |                         |
| For Elevated Installation >30' To 35', Add   | 39.35                     |                         |
| For Elevated Installation >35' To 40', Add   | 49.19                     |                         |
| For Elevated Installation >40', Add  | 54.11                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 29.51                     |                         |
| <b>26 05 33 13-0812 Intermediate Metal Conduit (IMC) Expansion Fittings</b> (26 05 33 13-0745) |                           |                         |
| 26 05 33 13-0813 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....              | 180.24                    | 22.49                   |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.25                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.12                     |                         |
| For Elevated Installation >40', Add  | 30.93                     |                         |
| 26 05 33 13-0814 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting .....              | 199.66                    | 25.30                   |
| For Work In Restricted Working Space, Add  | 18.98                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add   | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.63                     |                         |
| For Elevated Installation >40', Add  | 34.79                     |                         |
| 26 05 33 13-0815 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting .....                | 221.88                    | 28.11                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.06                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.60                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| 26 05 33 13-0816 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting .....            | 266.41                    | 30.92                   |
| For Work In Restricted Working Space, Add  | 23.19                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 15.46                     |                         |
| For Elevated Installation >20' To 25', Add   | 19.33                     |                         |
| For Elevated Installation >25' To 30', Add   | 27.06                     |                         |
| For Elevated Installation >30' To 35', Add   | 30.92                     |                         |
| For Elevated Installation >35' To 40', Add   | 38.65                     |                         |
| For Elevated Installation >40', Add  | 42.52                     |                         |
| 26 05 33 13-0817 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....            | 324.20                    | 33.73                   |
| For Work In Restricted Working Space, Add  | 25.30                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add   | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add   | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.17                     |                         |
| For Elevated Installation >40', Add  | 46.38                     |                         |
| 26 05 33 13-0818 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting .....                | 422.14                    | 36.54                   |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.97                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.24                     |                         |
| 26 05 33 13-0819 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....            | 632.04                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0820 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting .....  | 760.97                    | 56.22                   |
| <i>For Work In Restricted Working Space, Add</i>   | 42.17                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.06                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 28.11                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 35.14                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 49.19                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 56.22                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 70.28                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 77.30                     |                         |
| 26 05 33 13-0821 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....  | 1,055.01                  | 67.47                   |
| <i>For Work In Restricted Working Space, Add</i>   | 50.60                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 16.87                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 33.74                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.17                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 59.04                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 67.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 84.34                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 92.77                     |                         |
| 26 05 33 13-0822 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting .....  | 1,217.53                  | 73.09                   |
| <i>For Work In Restricted Working Space, Add</i>   | 54.81                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 18.27                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 36.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 45.68                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 63.95                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 73.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 91.35                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 100.49                    |                         |
| <b>26 05 33 13-0823 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal</b> <small>(26 05 33 13-0745)</small> |                           |                         |
| 26 05 33 13-0824 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                             | 117.99                    | 35.14                   |
| <i>For Work In Restricted Working Space, Add</i>   | 21.08                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.03                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 14.05                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.57                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.59                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 28.11                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 35.14                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 38.65                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 21.08                     |                         |
| 26 05 33 13-0825 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                             | 140.37                    | 42.16                   |
| <i>For Work In Restricted Working Space, Add</i>   | 25.30                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.43                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.87                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.08                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 29.52                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 33.73                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 42.17                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 46.38                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 25.30                     |                         |
| 26 05 33 13-0826 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                               | 170.41                    | 49.19                   |
| <i>For Work In Restricted Working Space, Add</i>   | 29.52                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.84                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 19.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 24.60                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 34.44                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 39.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 49.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 54.11                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 29.52                     |                         |
| 26 05 33 13-0827 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                           | 199.91                    | 56.22                   |
| <i>For Work In Restricted Working Space, Add</i>   | 33.74                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.25                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 22.49                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.11                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 39.36                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 44.98                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 56.23                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 61.85                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 33.74                     |                         |
| 26 05 33 13-0828 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                           | 258.17                    | 63.25                   |
| <i>For Work In Restricted Working Space, Add</i>   | 37.95                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.65                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.30                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.62                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.27                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.60                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 69.57                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 37.95                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-0829 | EA  | 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                | 311.16                 | 70.27                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 35.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 49.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 70.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 77.30                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 42.17                  |                      |
| 26 05 33 | 13-0830 | EA  | 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....            | 433.73                 | 84.33                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 50.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 33.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 42.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 59.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 67.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 84.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 92.76                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 50.60                  |                      |
| 26 05 33 | 13-0831 | EA  | 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                | 520.57                 | 98.39                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 59.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 39.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 49.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 68.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 78.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 98.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 108.22                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 59.03                  |                      |
| 26 05 33 | 13-0832 | EA  | 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....            | 1,158.74               | 112.45               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 67.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 56.22                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 78.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 89.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 112.44                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 123.68                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 67.46                  |                      |
| 26 05 33 | 13-0833 | EA  | 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....                | 1,333.80               | 126.49               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 75.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 50.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 88.55                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 101.20                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 126.50                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 139.15                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 75.90                  |                      |
| 26 05 33 | 13-0834 |     | <b>Intermediate Metal Conduit (IMC) Threaded Couplings</b> <small>(26 05 33 13-0745)</small>  |                        |                      |
| 26 05 33 | 13-0835 | EA  | 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....                                 | 18.49                  | 6.74                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 5.06                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 1.69                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 3.37                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 4.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 5.90                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 6.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 8.43                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 9.27                   |                      |
| 26 05 33 | 13-0836 | EA  | 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling .....                                 | 25.89                  | 9.56                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 7.17                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.39                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.78                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.98                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.37                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 9.56                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 11.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 13.15                  |                      |
| 26 05 33 | 13-0837 | EA  | 1" Intermediate Metal Conduit (IMC) Threaded Coupling .....                                   | 33.85                  | 12.36                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.27                   |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.09                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.18                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 10.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 12.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 15.45                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 17.00                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0838 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling .....                         | 38.82                     | 14.06                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.54                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.79                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.06                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 19.33                     |                         |
| 26 05 33 13-0839 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....                         | 46.79                     | 16.86                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.64                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.21                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.54                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.75                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.86                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 21.07                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 23.18                     |                         |
| 26 05 33 13-0840 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling .....                             | 53.93                     | 19.12                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.34                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.78                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.56                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.95                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 16.73                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 19.12                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 23.91                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 26.30                     |                         |
| 26 05 33 13-0841 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....                         | 66.96                     | 21.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 16.02                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.34                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.69                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 29.37                     |                         |
| 26 05 33 13-0842 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling .....                             | 78.96                     | 24.18                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.13                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.04                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.09                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.11                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.15                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.18                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.22                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 33.24                     |                         |
| 26 05 33 13-0843 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....                         | 90.84                     | 26.42                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.82                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.61                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.22                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 16.52                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 23.13                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 26.43                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 33.04                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 36.34                     |                         |
| 26 05 33 13-0844 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling .....                             | 95.21                     | 28.11                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.08                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.03                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.05                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.56                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.59                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.10                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.13                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.64                     |                         |
| <b>26 05 33 13-0845 Intermediate Metal Conduit (IMC) Reducer Bushings</b> <small>(26 05 33 13-0745)</small> |                           |                         |
| 26 05 33 13-0846 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing .....                    | 8.84                      | 2.82                    |
| <i>For Work In Restricted Working Space, Add</i>  | 2.11                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 0.70                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 1.40                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 1.76                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 2.46                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 2.81                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 3.51                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 3.86                      |                         |
| 26 05 33 13-0847 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing .....                      | 9.89                      | 2.82                    |
| <i>For Work In Restricted Working Space, Add</i>  | 2.11                      |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 0.70                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 1.40                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 1.76                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 2.46                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 2.81                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 3.51                      |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 3.86                      |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0848 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0059)</small><br>Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening. |                           |                         |
| 26 05 33 13-0849 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0848)</small><br>Note: Includes field bending for conduit up to 1".   |                           |                         |
| 26 05 33 13-0850 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....  | 15.49                     | 3.94                    |
| For >250 To 500, Deduct  | -0.53                     |                         |
| For >500 To 1,000, Deduct  | -0.92                     |                         |
| For >1,000, Deduct   | -1.30                     |                         |
| For Elevated Installation >10' To 15', Add   | 0.98                      |                         |
| For Elevated Installation >15' To 20', Add   | 1.97                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.46                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.44                      |                         |
| For Elevated Installation >30' To 35', Add   | 3.94                      |                         |
| For Elevated Installation >35' To 40', Add   | 4.92                      |                         |
| For Elevated Installation >40', Add  | 5.41                      |                         |
| For Work In Restricted Working Space, Add  | 2.95                      |                         |
| 26 05 33 13-0851 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....  | 17.79                     | 4.50                    |
| For >250 To 500, Deduct  | -0.61                     |                         |
| For >500 To 1,000, Deduct  | -1.05                     |                         |
| For >1,000, Deduct   | -1.50                     |                         |
| For Elevated Installation >10' To 15', Add   | 1.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.25                      |                         |
| For Elevated Installation >20' To 25', Add   | 2.81                      |                         |
| For Elevated Installation >25' To 30', Add   | 3.93                      |                         |
| For Elevated Installation >30' To 35', Add   | 4.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 5.62                      |                         |
| For Elevated Installation >40', Add  | 6.18                      |                         |
| For Work In Restricted Working Space, Add  | 3.37                      |                         |
| 26 05 33 13-0852 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....  | 22.54                     | 5.62                    |
| For >250 To 500, Deduct  | -0.78                     |                         |
| For >500 To 1,000, Deduct  | -1.34                     |                         |
| For >1,000, Deduct   | -1.90                     |                         |
| For Elevated Installation >10' To 15', Add   | 1.41                      |                         |
| For Elevated Installation >15' To 20', Add   | 2.81                      |                         |
| For Elevated Installation >20' To 25', Add   | 3.52                      |                         |
| For Elevated Installation >25' To 30', Add   | 4.92                      |                         |
| For Elevated Installation >30' To 35', Add   | 5.62                      |                         |
| For Elevated Installation >35' To 40', Add   | 7.03                      |                         |
| For Elevated Installation >40', Add  | 7.73                      |                         |
| For Work In Restricted Working Space, Add  | 4.22                      |                         |
| 26 05 33 13-0853 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....  | 27.61                     | 6.74                    |
| For >250 To 500, Deduct  | -0.96                     |                         |
| For >500 To 1,000, Deduct  | -1.65                     |                         |
| For >1,000, Deduct   | -2.34                     |                         |
| For Elevated Installation >10' To 15', Add   | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.43                      |                         |
| For Elevated Installation >40', Add  | 9.27                      |                         |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| 26 05 33 13-0854 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....  | 34.15                     | 8.44                    |
| For >250 To 500, Deduct  | -1.18                     |                         |
| For >500 To 1,000, Deduct  | -2.03                     |                         |
| For >1,000, Deduct   | -2.89                     |                         |
| For Elevated Installation >10' To 15', Add   | 2.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.22                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.27                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.38                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.43                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.54                     |                         |
| For Elevated Installation >40', Add  | 11.59                     |                         |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| 26 05 33 13-0855 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....  | 42.34                     | 10.12                   |
| For >250 To 500, Deduct  | -1.48                     |                         |
| For >500 To 1,000, Deduct  | -2.54                     |                         |
| For >1,000, Deduct   | -3.60                     |                         |
| For Elevated Installation >10' To 15', Add   | 2.53                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.06                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.33                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.86                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 12.65                     |                         |
| For Elevated Installation >40', Add  | 13.92                     |                         |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0856 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....                             | 55.35                     | 11.80                   |
| For >250 To 500, Deduct   | -2.03                     |                         |
| For >500 To 1,000, Deduct   | -3.41                     |                         |
| For >1,000, Deduct  | -4.80                     |                         |
| For Elevated Installation >10' To 15', Add  | 2.95                      |                         |
| For Elevated Installation >15' To 20', Add  | 5.90                      |                         |
| For Elevated Installation >20' To 25', Add  | 7.38                      |                         |
| For Elevated Installation >25' To 30', Add  | 10.33                     |                         |
| For Elevated Installation >30' To 35', Add  | 11.81                     |                         |
| For Elevated Installation >35' To 40', Add  | 14.76                     |                         |
| For Elevated Installation >40', Add   | 16.24                     |                         |
| For Work In Restricted Working Space, Add   | 8.86                      |                         |
| 26 05 33 13-0857 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....                                 | 69.11                     | 14.62                   |
| For >250 To 500, Deduct   | -2.54                     |                         |
| For >500 To 1,000, Deduct   | -4.27                     |                         |
| For >1,000, Deduct  | -6.00                     |                         |
| For Elevated Installation >10' To 15', Add  | 3.65                      |                         |
| For Elevated Installation >15' To 20', Add  | 7.31                      |                         |
| For Elevated Installation >20' To 25', Add  | 9.14                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 14.62                     |                         |
| For Elevated Installation >35' To 40', Add  | 18.27                     |                         |
| For Elevated Installation >40', Add   | 20.10                     |                         |
| For Work In Restricted Working Space, Add   | 10.96                     |                         |
| 26 05 33 13-0858 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....                             | 84.83                     | 17.99                   |
| For >250 To 500, Deduct   | -3.12                     |                         |
| For >500 To 1,000, Deduct   | -5.24                     |                         |
| For >1,000, Deduct  | -7.36                     |                         |
| For Elevated Installation >10' To 15', Add  | 4.50                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.00                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.25                     |                         |
| For Elevated Installation >25' To 30', Add  | 15.74                     |                         |
| For Elevated Installation >30' To 35', Add  | 17.99                     |                         |
| For Elevated Installation >35' To 40', Add  | 22.49                     |                         |
| For Elevated Installation >40', Add   | 24.74                     |                         |
| For Work In Restricted Working Space, Add   | 13.49                     |                         |
| 26 05 33 13-0859 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....                                 | 100.38                    | 21.36                   |
| For >250 To 500, Deduct   | -3.68                     |                         |
| For >500 To 1,000, Deduct   | -6.19                     |                         |
| For >1,000, Deduct  | -8.70                     |                         |
| For Elevated Installation >10' To 15', Add  | 5.34                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.68                     |                         |
| For Elevated Installation >20' To 25', Add  | 13.35                     |                         |
| For Elevated Installation >25' To 30', Add  | 18.69                     |                         |
| For Elevated Installation >30' To 35', Add  | 21.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 26.71                     |                         |
| For Elevated Installation >40', Add   | 29.38                     |                         |
| For Work In Restricted Working Space, Add   | 16.02                     |                         |
| 26 05 33 13-0860 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....                                 | 146.49                    | 25.30                   |
| For >250 To 500, Deduct   | -5.74                     |                         |
| For >500 To 1,000, Deduct   | -9.41                     |                         |
| For >1,000, Deduct  | -13.07                    |                         |
| For Elevated Installation >10' To 15', Add  | 6.33                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.65                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.81                     |                         |
| For Elevated Installation >25' To 30', Add  | 22.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 25.30                     |                         |
| For Elevated Installation >35' To 40', Add  | 31.63                     |                         |
| For Elevated Installation >40', Add   | 34.79                     |                         |
| For Work In Restricted Working Space, Add   | 18.98                     |                         |
| 26 05 33 13-0861 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....                                 | 198.41                    | 33.73                   |
| For >250 To 500, Deduct   | -7.81                     |                         |
| For >500 To 1,000, Deduct   | -12.77                    |                         |
| For >1,000, Deduct  | -17.73                    |                         |
| For Elevated Installation >10' To 15', Add  | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add  | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.17                     |                         |
| For Elevated Installation >40', Add   | 46.38                     |                         |
| For Work In Restricted Working Space, Add   | 25.30                     |                         |
| <b>26 05 33 13-0862 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-0863 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....                              | 22.83                     | 8.44                    |
| For Elevated Installation >10' To 15', Add  | 1.69                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.37                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.22                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.90                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.74                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.43                      |                         |
| For Elevated Installation >40', Add   | 9.27                      |                         |
| For Work In Restricted Working Space, Add   | 5.06                      |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0864 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....   | 30.16                     | 11.94                   |
| For Elevated Installation >10' To 15', Add   | 2.39                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.78                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.98                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.37                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.56                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.95                     |                         |
| For Elevated Installation >40', Add  | 13.15                     |                         |
| For Work In Restricted Working Space, Add  | 7.17                      |                         |
| 26 05 33 13-0865 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....     | 39.04                     | 15.46                   |
| For Elevated Installation >10' To 15', Add   | 3.09                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.18                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.73                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.82                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.37                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.46                     |                         |
| For Elevated Installation >40', Add  | 17.01                     |                         |
| For Work In Restricted Working Space, Add  | 9.28                      |                         |
| 26 05 33 13-0866 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling..... | 44.61                     | 17.57                   |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| 26 05 33 13-0867 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling..... | 53.42                     | 21.08                   |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| 26 05 33 13-0868 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....     | 64.27                     | 23.90                   |
| For Elevated Installation >10' To 15', Add   | 4.78                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.56                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 16.73                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.12                     |                         |
| For Elevated Installation >35' To 40', Add   | 23.90                     |                         |
| For Elevated Installation >40', Add  | 26.28                     |                         |
| For Work In Restricted Working Space, Add  | 14.34                     |                         |
| 26 05 33 13-0869 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling..... | 94.20                     | 23.90                   |
| For Elevated Installation >10' To 15', Add   | 5.34                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.35                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.69                     |                         |
| For Elevated Installation >30' To 35', Add   | 21.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 26.71                     |                         |
| For Elevated Installation >40', Add  | 29.38                     |                         |
| For Work In Restricted Working Space, Add  | 16.02                     |                         |
| 26 05 33 13-0870 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....     | 109.98                    | 33.03                   |
| For Elevated Installation >10' To 15', Add   | 6.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.09                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.18                     |                         |
| For Elevated Installation >35' To 40', Add   | 30.22                     |                         |
| For Elevated Installation >40', Add  | 33.24                     |                         |
| For Work In Restricted Working Space, Add  | 18.13                     |                         |
| 26 05 33 13-0871 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling..... | 129.61                    | 33.03                   |
| For Elevated Installation >10' To 15', Add   | 6.61                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.03                     |                         |
| For Elevated Installation >40', Add  | 36.33                     |                         |
| For Work In Restricted Working Space, Add  | 19.82                     |                         |
| 26 05 33 13-0872 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....     | 144.57                    | 35.14                   |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0873 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....                                  | 326.45                    | 42.16                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.43                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 16.87                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.08                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 29.52                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 33.73                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 42.17                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 46.38                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 25.30                     |                         |
| 26 05 33 13-0874 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....                                  | 368.85                    | 49.19                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.84                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.60                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 34.44                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 39.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 49.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 54.11                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 29.52                     |                         |
| <b>26 05 33 13-0875 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) Standard Radius Elbows (26 05 33 13-0848)</b> |                           |                         |
| <i>Note: 90, 45, or 30 degree.</i>  |                           |                         |
| 26 05 33 13-0876 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                   | 66.61                     | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.70                     |                         |
| 26 05 33 13-0877 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                   | 78.36                     | 28.32                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.66                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.33                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 14.16                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.82                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.66                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 28.32                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 31.15                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 16.99                     |                         |
| 26 05 33 13-0878 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                     | 94.34                     | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 20.83                     |                         |
| 26 05 33 13-0879 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                 | 111.01                    | 40.20                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.04                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 16.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 28.14                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 32.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 40.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 44.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.12                     |                         |
| 26 05 33 13-0880 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                 | 128.98                    | 45.68                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 31.98                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 36.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 45.68                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 50.25                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 27.41                     |                         |
| 26 05 33 13-0881 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                     | 153.00                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 30.15                     |                         |
| 26 05 33 13-0882 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                 | 225.00                    | 63.04                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.61                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 25.21                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.52                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 44.12                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 50.43                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 63.04                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 69.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 37.82                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0883 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....                                    | 329.83                    | 85.87                   |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| 26 05 33 13-0884 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....                                 | 401.10                    | 96.84                   |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| 26 05 33 13-0885 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....                                    | 471.41                    | 126.07                  |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.68                    |                         |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| 26 05 33 13-0886 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....                                    | 939.49                    | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| 26 05 33 13-0887 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....                                    | 1,466.90                  | 308.79                  |
| For Elevated Installation >10' To 15', Add  | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add  | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add  | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add  | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add  | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add  | 308.79                    |                         |
| For Elevated Installation >40', Add   | 339.67                    |                         |
| For Work In Restricted Working Space, Add   | 185.27                    |                         |
| <b>26 05 33 13-0888 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 12" Large Radius Elbows <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-0889 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                                   | 143.66                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| 26 05 33 13-0890 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                               | 162.50                    | 40.20                   |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| 26 05 33 13-0891 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                               | 185.36                    | 45.68                   |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| 26 05 33 13-0892 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....                                   | 218.05                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0893 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....                                | 298.62                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| <b>26 05 33 13-0894 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 15" Large Radius Elbows <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-0895 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....                                   | 157.00                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| 26 05 33 13-0896 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....                                | 184.53                    | 40.20                   |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| 26 05 33 13-0897 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....                                | 201.16                    | 45.68                   |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| 26 05 33 13-0898 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....                                   | 252.50                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| 26 05 33 13-0899 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....                                | 331.85                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| 26 05 33 13-0900 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....                                   | 428.37                    | 85.87                   |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| <b>26 05 33 13-0901 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 18" Large Radius Elbows <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-0902 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                                   | 172.95                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0903 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                           | 196.01                    | 40.20                   |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| 26 05 33 13-0904 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                           | 221.43                    | 45.68                   |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| 26 05 33 13-0905 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                               | 263.93                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| 26 05 33 13-0906 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                           | 370.03                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| 26 05 33 13-0907 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                               | 473.19                    | 85.87                   |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| 26 05 33 13-0908 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                           | 588.83                    | 96.84                   |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| 26 05 33 13-0909 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....                               | 675.93                    | 126.07                  |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.68                    |                         |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| <b>26 05 33 13-0910 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-0911 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....                               | 200.49                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| 26 05 33 13-0912 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....                           | 222.95                    | 40.20                   |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0913 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... | 252.02                    | 45.68                   |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| 26 05 33 13-0914 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....     | 307.98                    | 50.25                   |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| 26 05 33 13-0915 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... | 438.36                    | 63.04                   |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.04                     |                         |
| For Elevated Installation >40', Add  | 69.34                     |                         |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| 26 05 33 13-0916 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....     | 549.14                    | 85.87                   |
| For Elevated Installation >10' To 15', Add   | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.88                     |                         |
| For Elevated Installation >40', Add  | 94.46                     |                         |
| For Work In Restricted Working Space, Add  | 51.53                     |                         |
| 26 05 33 13-0917 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... | 635.20                    | 96.84                   |
| For Elevated Installation >10' To 15', Add   | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add   | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add   | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 96.84                     |                         |
| For Elevated Installation >40', Add  | 106.52                    |                         |
| For Work In Restricted Working Space, Add  | 58.10                     |                         |
| 26 05 33 13-0918 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....     | 761.06                    | 126.07                  |
| For Elevated Installation >10' To 15', Add   | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add   | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add   | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add   | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add   | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add   | 126.08                    |                         |
| For Elevated Installation >40', Add  | 138.68                    |                         |
| For Work In Restricted Working Space, Add  | 75.65                     |                         |
| <b>26 05 33 13-0919 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 30" Large Radius Elbows</b>    |                           |                         |
| 26 05 33 13-0920 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....     | 221.93                    | 34.72                   |
| For Elevated Installation >10' To 15', Add   | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add   | 34.72                     |                         |
| For Elevated Installation >40', Add  | 38.19                     |                         |
| For Work In Restricted Working Space, Add  | 20.83                     |                         |
| 26 05 33 13-0921 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... | 248.04                    | 40.20                   |
| For Elevated Installation >10' To 15', Add   | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 40.20                     |                         |
| For Elevated Installation >40', Add  | 44.21                     |                         |
| For Work In Restricted Working Space, Add  | 24.12                     |                         |
| 26 05 33 13-0922 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... | 282.13                    | 45.68                   |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |

## 26 Electrical

## 26 05 Common Work Results for Electrical

## 26 05 33 Raceway and Boxes for Electrical Systems



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0923 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                                   | 346.33                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| 26 05 33 13-0924 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                               | 475.64                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| 26 05 33 13-0925 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                                   | 609.88                    | 85.87                   |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| 26 05 33 13-0926 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                               | 747.94                    | 96.84                   |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| 26 05 33 13-0927 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                                   | 839.20                    | 126.07                  |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.68                    |                         |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| 26 05 33 13-0928 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....                                   | 1,395.70                  | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| <b>26 05 33 13-0929 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 36" Large Radius Elbows</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-0930 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                                   | 249.96                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| 26 05 33 13-0931 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                               | 278.34                    | 40.20                   |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| 26 05 33 13-0932 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....                               | 315.14                    | 45.68                   |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 05 33 13-0933 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 388.86<br>10.05<br>20.10<br>25.12<br>35.17<br>40.20<br>50.25<br>55.27<br>30.15          | 50.25                   |
| 26 05 33 13-0934 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 537.77<br>12.61<br>25.21<br>31.52<br>44.12<br>50.43<br>63.04<br>69.34<br>37.82          | 63.04                   |
| 26 05 33 13-0935 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 687.28<br>17.18<br>34.35<br>42.94<br>60.11<br>68.70<br>85.88<br>94.46<br>51.53          | 85.87                   |
| 26 05 33 13-0936 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 804.44<br>19.37<br>38.74<br>48.42<br>67.79<br>77.47<br>96.84<br>106.52<br>58.10         | 96.84                   |
| 26 05 33 13-0937 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 940.09<br>25.22<br>50.43<br>63.04<br>88.25<br>100.86<br>126.08<br>138.68<br>75.65       | 126.07                  |
| 26 05 33 13-0938 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 1,466.40<br>41.11<br>82.22<br>102.78<br>143.89<br>164.44<br>205.56<br>226.11<br>123.33  | 205.55                  |
| 26 05 33 13-0939 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 2,025.56<br>61.76<br>123.52<br>154.40<br>216.15<br>247.03<br>308.79<br>339.67<br>185.27 | 308.79                  |
| <b>26 05 33 13-0940 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows</b> <small>(26 05 33 13-0848)</small>   |   |                         |
| 26 05 33 13-0941 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>    | 288.98<br>6.94<br>13.89<br>17.36<br>24.30<br>27.77<br>34.72<br>38.19<br>20.83           | 34.72                   |
| 26 05 33 13-0942 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 305.36<br>8.04<br>16.08<br>20.10<br>28.14<br>32.16<br>40.20<br>44.22<br>24.12           | 40.20                   |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0943 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                               | 359.31                    | 45.68                   |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| 26 05 33 13-0944 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                                   | 448.06                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| 26 05 33 13-0945 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                               | 621.54                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| 26 05 33 13-0946 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                                   | 791.62                    | 85.87                   |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.46                     |                         |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| 26 05 33 13-0947 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                               | 961.50                    | 96.84                   |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| 26 05 33 13-0948 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                                   | 1,136.34                  | 126.07                  |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.68                    |                         |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| 26 05 33 13-0949 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                                   | 1,697.02                  | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| 26 05 33 13-0950 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....                                   | 2,131.42                  | 308.79                  |
| For Elevated Installation >10' To 15', Add  | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add  | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add  | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add  | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add  | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add  | 308.79                    |                         |
| For Elevated Installation >40', Add   | 339.67                    |                         |
| For Work In Restricted Working Space, Add   | 185.27                    |                         |
| <b>26 05 33 13-0951 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 48" Large Radius Elbows</b> <small>(26 05 33 13-0948)</small> |                           |                         |
| 26 05 33 13-0952 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....                                   | 298.38                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-0953 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                             | 351.06                    | 40.20                   |
| For Elevated Installation >10' To 15', Add   | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 40.20                     |                         |
| For Elevated Installation >40', Add  | 44.22                     |                         |
| For Work In Restricted Working Space, Add  | 24.12                     |                         |
| 26 05 33 13-0954 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                             | 397.51                    | 45.68                   |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| 26 05 33 13-0955 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                 | 465.87                    | 50.25                   |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| 26 05 33 13-0956 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                             | 642.47                    | 63.04                   |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.04                     |                         |
| For Elevated Installation >40', Add  | 69.34                     |                         |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| 26 05 33 13-0957 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                 | 823.71                    | 85.87                   |
| For Elevated Installation >10' To 15', Add   | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.88                     |                         |
| For Elevated Installation >40', Add  | 94.46                     |                         |
| For Work In Restricted Working Space, Add  | 51.53                     |                         |
| 26 05 33 13-0958 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                             | 1,047.04                  | 96.84                   |
| For Elevated Installation >10' To 15', Add   | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add   | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add   | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 96.84                     |                         |
| For Elevated Installation >40', Add  | 106.52                    |                         |
| For Work In Restricted Working Space, Add  | 58.10                     |                         |
| 26 05 33 13-0959 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                 | 1,180.85                  | 126.07                  |
| For Elevated Installation >10' To 15', Add   | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add   | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add   | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add   | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add   | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add   | 126.08                    |                         |
| For Elevated Installation >40', Add  | 138.68                    |                         |
| For Work In Restricted Working Space, Add  | 75.65                     |                         |
| 26 05 33 13-0960 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                 | 1,758.98                  | 205.55                  |
| For Elevated Installation >10' To 15', Add   | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add   | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add   | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add   | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add   | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add   | 205.56                    |                         |
| For Elevated Installation >40', Add  | 226.11                    |                         |
| For Work In Restricted Working Space, Add  | 123.33                    |                         |
| 26 05 33 13-0961 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....                                 | 2,185.21                  | 308.79                  |
| For Elevated Installation >10' To 15', Add   | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add   | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add   | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add   | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add   | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add   | 308.79                    |                         |
| For Elevated Installation >40', Add  | 339.67                    |                         |
| For Work In Restricted Working Space, Add  | 185.27                    |                         |
| 26 05 33 13-0962 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br>(RGS) 45 Degree Sealtight Fittings <small>(26 05 33 13-0846)</small> |                           |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-0963 | EA  | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....   | 116.04                 | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 13.70                  |                      |
| 26 05 33 | 13-0964 | EA  | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....   | 143.28                 | 30.15                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 21.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 24.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 30.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 33.17                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 18.09                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 18.09                  |                      |
| 26 05 33 | 13-0965 | EA  | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....     | 187.93                 | 34.72                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.19                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.83                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 20.83                  |                      |
| 26 05 33 | 13-0966 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting..... | 299.19                 | 40.20                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 24.12                  |                      |
| 26 05 33 | 13-0967 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting..... | 331.09                 | 45.68                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 27.41                  |                      |
| 26 05 33 | 13-0968 | EA  | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....     | 414.13                 | 50.25                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 55.27                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 30.15                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 30.15                  |                      |
| 26 05 33 | 13-0969 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting..... | 1,086.83               | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.33                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 37.82                  |                      |
| 26 05 33 | 13-0970 | EA  | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....     | 1,303.17               | 85.87                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 68.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 85.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 94.47                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 51.53                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | 51.53                  |                      |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-0971        | EA    |     |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....                                   | 1,738.24               | 126.07               |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 25.21                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 50.43                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 63.04                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 88.25                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 100.86                 |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 126.07                 |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 138.68                 |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 75.64                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 75.64                  |                      |
| <b>26 05 33 13-0972</b> |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fittings <small>(26 05 33 13-0848)</small></b> |                        |                      |
| 26 05 33 13-0973        | EA    |     |     | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                                 | 111.77                 | 22.84                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                   |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                   |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 13.70                  |                      |
| 26 05 33 13-0974        | EA    |     |     | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                                 | 138.44                 | 30.15                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.03                   |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.06                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.08                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 21.11                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 24.12                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 30.15                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 33.17                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 18.09                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.09                  |                      |
| 26 05 33 13-0975        | EA    |     |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                                   | 187.93                 | 34.72                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                   |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.19                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 20.83                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.83                  |                      |
| 26 05 33 13-0976        | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                               | 296.70                 | 40.20                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                   |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 24.12                  |                      |
| 26 05 33 13-0977        | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                               | 321.06                 | 45.68                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 27.41                  |                      |
| 26 05 33 13-0978        | EA    |     |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                                   | 414.25                 | 50.25                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 55.27                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 30.15                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 30.15                  |                      |
| 26 05 33 13-0979        | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....                               | 1,044.03               | 63.04                |
|                         |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.42                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.03                  |                      |
|                         |       |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.33                  |                      |
|                         |       |     |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 37.82                  |                      |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0980 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....                              | 1,271.95                  | 85.87                   |
| For Elevated Installation >10' To 15', Add  | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add  | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add  | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add  | 60.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add  | 85.88                     |                         |
| For Elevated Installation >40', Add   | 94.47                     |                         |
| For Work In Restricted Working Space, Add   | 51.53                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 51.53                     |                         |
| 26 05 33 13-0981 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....                              | 1,738.17                  | 126.07                  |
| For Elevated Installation >10' To 15', Add  | 25.21                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.07                    |                         |
| For Elevated Installation >40', Add   | 138.68                    |                         |
| For Work In Restricted Working Space, Add   | 75.64                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 75.64                     |                         |
| <b>26 05 33 13-0982 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings</b> <small>(26 05 33 13-0948)</small> |                           |                         |
| 26 05 33 13-0983 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....                             | 102.30                    | 22.84                   |
| For Elevated Installation >10' To 15', Add  | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.14                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 15.99                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add  | 22.84                     |                         |
| For Elevated Installation >40', Add   | 25.12                     |                         |
| For Work In Restricted Working Space, Add   | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 13.70                     |                         |
| 26 05 33 13-0984 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....                             | 124.07                    | 30.15                   |
| For Elevated Installation >10' To 15', Add  | 6.03                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.06                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.08                     |                         |
| For Elevated Installation >25' To 30', Add  | 21.11                     |                         |
| For Elevated Installation >30' To 35', Add  | 24.12                     |                         |
| For Elevated Installation >35' To 40', Add  | 30.15                     |                         |
| For Elevated Installation >40', Add   | 33.17                     |                         |
| For Work In Restricted Working Space, Add   | 18.09                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 18.09                     |                         |
| 26 05 33 13-0985 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....                               | 145.91                    | 34.72                   |
| For Elevated Installation >10' To 15', Add  | 6.94                      |                         |
| For Elevated Installation >15' To 20', Add  | 13.89                     |                         |
| For Elevated Installation >20' To 25', Add  | 17.36                     |                         |
| For Elevated Installation >25' To 30', Add  | 24.30                     |                         |
| For Elevated Installation >30' To 35', Add  | 27.77                     |                         |
| For Elevated Installation >35' To 40', Add  | 34.72                     |                         |
| For Elevated Installation >40', Add   | 38.19                     |                         |
| For Work In Restricted Working Space, Add   | 20.83                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 20.83                     |                         |
| 26 05 33 13-0986 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....                           | 202.15                    | 40.20                   |
| For Elevated Installation >10' To 15', Add  | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add  | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add  | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add  | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 40.20                     |                         |
| For Elevated Installation >40', Add   | 44.21                     |                         |
| For Work In Restricted Working Space, Add   | 24.12                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 24.12                     |                         |
| 26 05 33 13-0987 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....                           | 235.42                    | 45.68                   |
| For Elevated Installation >10' To 15', Add  | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add  | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add  | 45.68                     |                         |
| For Elevated Installation >40', Add   | 50.25                     |                         |
| For Work In Restricted Working Space, Add   | 27.41                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 27.41                     |                         |
| 26 05 33 13-0988 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....                               | 352.37                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 30.15                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-0989 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....                                      | 924.86                    | 63.04                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.61                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 25.21                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.52                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 44.12                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 50.42                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 63.03                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 69.33                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 37.82                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 37.82                     |                         |
| 26 05 33 13-0990 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....   | 1,049.35                  | 85.87                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.18                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 34.35                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 42.94                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 60.12                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 68.70                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 85.88                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 94.47                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 51.53                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 51.53                     |                         |
| 26 05 33 13-0991 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....   | 1,349.24                  | 126.07                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 25.21                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 50.43                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 63.04                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 88.25                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 100.86                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 126.07                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 138.68                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 75.64                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 75.64                     |                         |
| <b>26 05 33 13-0992 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings</b> <small>(26 05 33 13-0948)</small> |                           |                         |
| 26 05 33 13-0993 EA 1 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                            | 165.65                    | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.70                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 13.70                     |                         |
| 26 05 33 13-0994 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                              | 247.28                    | 30.15                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.03                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.06                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.08                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.11                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.12                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.15                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 33.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 18.09                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.09                     |                         |
| 26 05 33 13-0995 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                                | 309.08                    | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 20.83                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.83                     |                         |
| 26 05 33 13-0996 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                            | 356.85                    | 40.20                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.04                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 16.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 28.14                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 32.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 40.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 44.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.12                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 24.12                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-0997 | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                               | 405.29                 | 45.68                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 27.41                  |                      |
| 26 05 33 13-0998 | EA  |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                                   | 527.85                 | 50.25                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 55.27                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 30.15                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 30.15                  |                      |
| 26 05 33 13-0999 | EA  |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                               | 1,607.74               | 63.04                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.42                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.03                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.33                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 37.82                  |                      |
| 26 05 33 13-1000 | EA  |     | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                                   | 1,884.13               | 85.87                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.18                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.35                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.94                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 68.70                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 85.88                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 94.47                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 51.53                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 51.53                  |                      |
| 26 05 33 13-1001 | EA  |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....                                   | 2,328.05               | 126.07               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 25.21                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 50.43                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 63.04                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 88.25                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 100.86                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 126.07                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 138.68                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 75.64                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 75.64                  |                      |
| 26 05 33 13-1002 |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings</b> <small>(26 05 33 13-0848)</small> |                        |                      |
| 26 05 33 13-1003 | EA  |     | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....                                 | 182.47                 | 22.84                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 13.70                  |                      |
| 26 05 33 13-1004 | EA  |     | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....                                 | 263.15                 | 30.15                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.03                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.06                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.08                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 21.11                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 24.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 30.15                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 33.17                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 18.09                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.09                  |                      |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-1005 | EA  |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....     | 312.10                 | 34.72                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.19                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 20.83                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 20.83                  |                      |
| 26 05 33 13-1006 | EA  |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting..... | 361.82                 | 40.20                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 24.12                  |                      |
| 26 05 33 13-1007 | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting..... | 418.94                 | 45.68                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 27.41                  |                      |
| 26 05 33 13-1008 | EA  |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....     | 647.84                 | 50.25                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 55.27                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 30.15                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 30.15                  |                      |
| 26 05 33 13-1009 | EA  |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting..... | 1,788.80               | 63.04                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.42                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.03                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.33                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 37.82                  |                      |
| 26 05 33 13-1010 | EA  |     | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....     | 2,516.25               | 85.87                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.18                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.35                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.94                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 68.70                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 85.88                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 94.47                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 51.53                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 51.53                  |                      |
| 26 05 33 13-1011 | EA  |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....     | 2,648.05               | 126.07               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 25.21                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 50.43                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 63.04                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 88.25                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 100.86                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 126.07                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 138.68                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 75.64                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 75.64                  |                      |

26 05 33 13-1012     Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0848)



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-1013 | EA  | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....   | 147.12                 | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 13.70                  |                      |
| 26 05 33 | 13-1014 | EA  | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....   | 186.39                 | 30.15                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.03                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 33.17                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 18.09                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 18.09                  |                      |
| 26 05 33 | 13-1015 | EA  | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....     | 222.51                 | 34.72                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 27.77                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 34.72                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 38.19                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 20.83                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 20.83                  |                      |
| 26 05 33 | 13-1016 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting..... | 247.53                 | 40.20                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 28.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 32.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 44.21                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 24.12                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 24.12                  |                      |
| 26 05 33 | 13-1017 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting..... | 328.57                 | 45.68                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 31.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 50.25                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 27.41                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 27.41                  |                      |
| 26 05 33 | 13-1018 | EA  | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....     | 456.32                 | 50.25                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 55.27                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 30.15                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 30.15                  |                      |
| 26 05 33 | 13-1019 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting..... | 1,457.78               | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 50.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 63.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 69.33                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 37.82                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 37.82                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1020 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....                          | 1,649.65                  | 85.87                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.18                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.35                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.94                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.12                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 68.70                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 85.88                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 94.47                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 51.53                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 51.53                     |                         |
| 26 05 33 13-1021 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....                          | 1,974.01                  | 126.07                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 25.21                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 50.43                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 63.04                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 88.25                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 100.86                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 126.07                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 138.68                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 75.64                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 75.64                     |                         |
| <b>26 05 33 13-1022 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| <i>Note: Suitable for use in hazardous locations. Class I, Div 2.</i>  |                           |                         |
| 26 05 33 13-1023 EA 1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....                             | 146.31                    | 43.85                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.93                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.70                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 43.86                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 48.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.31                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 26.31                     |                         |
| 26 05 33 13-1024 EA 3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....                             | 165.47                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 30.15                     |                         |
| 26 05 33 13-1025 EA 1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....                               | 202.05                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 34.53                     |                         |
| 26 05 33 13-1026 EA 1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....                           | 259.59                    | 66.69                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 13.34                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 26.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 33.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 46.68                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 53.35                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 66.69                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 73.36                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 40.01                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 40.01                     |                         |
| 26 05 33 13-1027 EA 1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....                           | 300.29                    | 73.09                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.62                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 29.23                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 36.54                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 51.16                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 58.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 73.09                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 80.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 43.85                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 43.85                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-1028 | EA  |     | 2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                            | 402.62                 | 87.71                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.54                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 35.08                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 43.85                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 61.39                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 70.16                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 87.71                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 96.48                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 52.62                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 52.62                  |                      |
| 26 05 33 13-1029 | EA  |     | 3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                            | 663.64                 | 123.34               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 24.67                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 49.33                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 61.67                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 86.33                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 98.67                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 123.34                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 135.67                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 74.00                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 74.00                  |                      |
| 26 05 33 13-1030 | EA  |     | 3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                            | 853.42                 | 164.45               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 32.89                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 65.78                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 82.23                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 115.12                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 131.56                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 164.45                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 180.90                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 98.67                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 98.67                  |                      |
| 26 05 33 13-1031 | EA  |     | 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                        | 1,173.18               | 205.55               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 41.11                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 82.22                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 102.78                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 143.89                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 164.44                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 205.56                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 226.11                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 123.33                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 123.33                 |                      |
| 26 05 33 13-1032 | EA  |     | 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                            | 1,354.88               | 250.32               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 50.07                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 100.13                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 125.16                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 175.23                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 200.26                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 250.33                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 275.36                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 150.20                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 150.20                 |                      |
| 26 05 33 13-1033 |     |     | <b>Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0848)</small> |                        |                      |
|                  |     |     | Note: Suitable for use in hazardous locations. Class I, Div 2.   |                        |                      |
| 26 05 33 13-1034 | EA  |     | 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                                     | 191.30                 | 57.56                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 63.31                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 34.53                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 34.53                  |                      |
| 26 05 33 13-1035 | EA  |     | 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover                                     | 217.11                 | 63.95                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.79                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.58                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.98                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.77                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 51.16                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.95                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>  | 70.35                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>   | 38.37                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 38.37                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1036 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                                     | 260.86                    | 70.34                   |
| For Elevated Installation >10' To 15', Add   | 14.07                     |                         |
| For Elevated Installation >15' To 20', Add   | 28.14                     |                         |
| For Elevated Installation >20' To 25', Add   | 35.17                     |                         |
| For Elevated Installation >25' To 30', Add   | 49.24                     |                         |
| For Elevated Installation >30' To 35', Add   | 56.28                     |                         |
| For Elevated Installation >35' To 40', Add   | 70.35                     |                         |
| For Elevated Installation >40', Add  | 77.38                     |                         |
| For Work In Restricted Working Space, Add  | 42.21                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 42.21                     |                         |
| 26 05 33 13-1037 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                                 | 342.85                    | 80.39                   |
| For Elevated Installation >10' To 15', Add   | 16.08                     |                         |
| For Elevated Installation >15' To 20', Add   | 32.16                     |                         |
| For Elevated Installation >20' To 25', Add   | 40.20                     |                         |
| For Elevated Installation >25' To 30', Add   | 56.27                     |                         |
| For Elevated Installation >30' To 35', Add   | 64.31                     |                         |
| For Elevated Installation >35' To 40', Add   | 80.39                     |                         |
| For Elevated Installation >40', Add  | 88.43                     |                         |
| For Work In Restricted Working Space, Add  | 48.23                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 48.23                     |                         |
| 26 05 33 13-1038 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                                 | 401.10                    | 87.71                   |
| For Elevated Installation >10' To 15', Add   | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 87.71                     |                         |
| For Elevated Installation >40', Add  | 96.48                     |                         |
| For Work In Restricted Working Space, Add  | 52.62                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 52.62                     |                         |
| 26 05 33 13-1039 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                                     | 539.79                    | 107.81                  |
| For Elevated Installation >10' To 15', Add   | 21.56                     |                         |
| For Elevated Installation >15' To 20', Add   | 43.12                     |                         |
| For Elevated Installation >20' To 25', Add   | 53.90                     |                         |
| For Elevated Installation >25' To 30', Add   | 75.46                     |                         |
| For Elevated Installation >30' To 35', Add   | 86.24                     |                         |
| For Elevated Installation >35' To 40', Add   | 107.81                    |                         |
| For Elevated Installation >40', Add  | 118.59                    |                         |
| For Work In Restricted Working Space, Add  | 64.68                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 64.68                     |                         |
| <b>26 05 33 13-1040 Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| Note: Suitable for use in hazardous locations. Class I, Div 2.   |                           |                         |
| 26 05 33 13-1041 EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                            | 168.13                    | 50.25                   |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.13                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.18                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.28                     |                         |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 30.15                     |                         |
| 26 05 33 13-1042 EA 3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                            | 192.48                    | 58.47                   |
| For Elevated Installation >10' To 15', Add   | 11.69                     |                         |
| For Elevated Installation >15' To 20', Add   | 23.39                     |                         |
| For Elevated Installation >20' To 25', Add   | 29.24                     |                         |
| For Elevated Installation >25' To 30', Add   | 40.93                     |                         |
| For Elevated Installation >30' To 35', Add   | 46.78                     |                         |
| For Elevated Installation >35' To 40', Add   | 58.47                     |                         |
| For Elevated Installation >40', Add  | 64.32                     |                         |
| For Work In Restricted Working Space, Add  | 35.08                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 35.08                     |                         |
| 26 05 33 13-1043 EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                              | 229.10                    | 63.95                   |
| For Elevated Installation >10' To 15', Add   | 12.79                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.58                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.98                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.77                     |                         |
| For Elevated Installation >30' To 35', Add   | 51.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.95                     |                         |
| For Elevated Installation >40', Add  | 70.35                     |                         |
| For Work In Restricted Working Space, Add  | 38.37                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 38.37                     |                         |
| 26 05 33 13-1044 EA 1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....                          | 288.64                    | 73.09                   |
| For Elevated Installation >10' To 15', Add   | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add   | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add   | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 73.09                     |                         |
| For Elevated Installation >40', Add  | 80.39                     |                         |
| For Work In Restricted Working Space, Add  | 43.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 43.85                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-1045 | EA  | 1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....           | 338.71                 | 80.39                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 32.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 56.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 64.32                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 80.40                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 88.43                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 48.24                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 48.24                  |                      |
| 26 05 33 | 13-1046 | EA  | 2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....               | 446.56                 | 94.10                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 18.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 37.64                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 47.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 65.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 75.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 94.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 103.51                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 56.46                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 56.46                  |                      |
| 26 05 33 | 13-1047 | EA  | 2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....           | 710.50                 | 137.03               |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 27.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 54.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 68.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 95.93                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 109.63                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 137.04                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 150.74                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 82.22                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 82.22                  |                      |
| 26 05 33 | 13-1048 | EA  | 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....               | 938.66                 | 178.15               |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 35.63                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 71.26                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 89.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 124.70                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 142.52                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 178.15                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 195.96                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 106.89                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 106.89                 |                      |
| 26 05 33 | 13-1049 | EA  | 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....           | 1,275.56               | 219.26               |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 43.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 87.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 109.63                 |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 153.48                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 175.40                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 219.26                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 241.18                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 131.55                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 131.55                 |                      |
| 26 05 33 | 13-1050 | EA  | 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....               | 1,436.16               | 264.03               |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 52.81                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 105.61                 |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 132.02                 |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 184.82                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 211.23                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 264.04                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 290.44                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 158.42                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 158.42                 |                      |
| 26 05 33 | 13-1051 |     | <b>Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined</b> <small>(26 05 33 13-0848)</small> |                        |                      |
| 26 05 33 | 13-1052 | EA  | 1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....                                | 31.74                  | 5.48                 |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.10                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.19                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 2.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 3.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 4.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 6.03                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 3.29                   |                      |
| 26 05 33 | 13-1053 | EA  | 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....                                | 35.75                  | 6.39                 |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 1.28                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 2.56                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 3.20                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 4.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 5.12                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 6.40                   |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 7.03                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 3.84                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1054 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 46.55                     | 8.23                    |
| For Elevated Installation >10' To 15', Add   | 1.64                      |                         |
| For Elevated Installation >15' To 20', Add   | 3.29                      |                         |
| For Elevated Installation >20' To 25', Add   | 4.11                      |                         |
| For Elevated Installation >25' To 30', Add   | 5.75                      |                         |
| For Elevated Installation >30' To 35', Add   | 6.58                      |                         |
| For Elevated Installation >35' To 40', Add   | 8.22                      |                         |
| For Elevated Installation >40', Add  | 9.04                      |                         |
| For Work In Restricted Working Space, Add  | 4.93                      |                         |
| 26 05 33 13-1055 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 59.58                     | 10.05                   |
| For Elevated Installation >10' To 15', Add   | 2.01                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.02                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.04                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.04                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.05                     |                         |
| For Elevated Installation >40', Add  | 11.06                     |                         |
| For Work In Restricted Working Space, Add  | 6.03                      |                         |
| 26 05 33 13-1056 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 67.06                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.32                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.07                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| 26 05 33 13-1057 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 82.44                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| 26 05 33 13-1058 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 105.48                    | 15.53                   |
| For Elevated Installation >10' To 15', Add   | 3.11                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.21                      |                         |
| For Elevated Installation >20' To 25', Add   | 7.77                      |                         |
| For Elevated Installation >25' To 30', Add   | 10.87                     |                         |
| For Elevated Installation >30' To 35', Add   | 12.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 15.53                     |                         |
| For Elevated Installation >40', Add  | 17.08                     |                         |
| For Work In Restricted Working Space, Add  | 9.32                      |                         |
| 26 05 33 13-1059 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 118.27                    | 21.92                   |
| For Elevated Installation >10' To 15', Add   | 4.39                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.77                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.96                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.35                     |                         |
| For Elevated Installation >30' To 35', Add   | 17.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.93                     |                         |
| For Elevated Installation >40', Add  | 24.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.16                     |                         |
| 26 05 33 13-1060 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 142.65                    | 24.67                   |
| For Elevated Installation >10' To 15', Add   | 4.93                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.87                      |                         |
| For Elevated Installation >20' To 25', Add   | 12.33                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.27                     |                         |
| For Elevated Installation >30' To 35', Add   | 19.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 24.67                     |                         |
| For Elevated Installation >40', Add  | 27.13                     |                         |
| For Work In Restricted Working Space, Add  | 14.80                     |                         |
| 26 05 33 13-1061 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....   | 155.44                    | 31.06                   |
| For Elevated Installation >10' To 15', Add   | 6.21                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.42                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.53                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.85                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.06                     |                         |
| For Elevated Installation >40', Add  | 34.17                     |                         |
| For Work In Restricted Working Space, Add  | 18.64                     |                         |
| <b>26 05 33 13-1062 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1063 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body .....                              | 162.00                    | 43.85                   |
| For Elevated Installation >10' To 15', Add   | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.86                     |                         |
| For Elevated Installation >40', Add  | 48.24                     |                         |
| For Work In Restricted Working Space, Add  | 26.31                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 26.31                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1064 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....    | 180.45                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 30.15                     |                         |
| 26 05 33 13-1065 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....      | 210.10                    | 57.56                   |
| For Elevated Installation >10' To 15', Add  | 11.51                     |                         |
| For Elevated Installation >15' To 20', Add  | 23.02                     |                         |
| For Elevated Installation >20' To 25', Add  | 28.78                     |                         |
| For Elevated Installation >25' To 30', Add  | 40.29                     |                         |
| For Elevated Installation >30' To 35', Add  | 46.04                     |                         |
| For Elevated Installation >35' To 40', Add  | 57.56                     |                         |
| For Elevated Installation >40', Add   | 63.31                     |                         |
| For Work In Restricted Working Space, Add   | 34.53                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 34.53                     |                         |
| 26 05 33 13-1066 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body ..... | 248.43                    | 66.69                   |
| For Elevated Installation >10' To 15', Add  | 13.34                     |                         |
| For Elevated Installation >15' To 20', Add  | 26.68                     |                         |
| For Elevated Installation >20' To 25', Add  | 33.35                     |                         |
| For Elevated Installation >25' To 30', Add  | 46.69                     |                         |
| For Elevated Installation >30' To 35', Add  | 53.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 66.70                     |                         |
| For Elevated Installation >40', Add   | 73.36                     |                         |
| For Work In Restricted Working Space, Add   | 40.02                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 40.02                     |                         |
| 26 05 33 13-1067 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body ..... | 303.43                    | 73.09                   |
| For Elevated Installation >10' To 15', Add  | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add  | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add  | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add  | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 73.09                     |                         |
| For Elevated Installation >40', Add   | 80.39                     |                         |
| For Work In Restricted Working Space, Add   | 43.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 43.85                     |                         |
| 26 05 33 13-1068 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....      | 367.22                    | 87.71                   |
| For Elevated Installation >10' To 15', Add  | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add  | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add  | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add  | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 87.71                     |                         |
| For Elevated Installation >40', Add   | 96.48                     |                         |
| For Work In Restricted Working Space, Add   | 52.62                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 52.62                     |                         |
| 26 05 33 13-1069 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body ..... | 529.65                    | 123.34                  |
| For Elevated Installation >10' To 15', Add  | 24.67                     |                         |
| For Elevated Installation >15' To 20', Add  | 49.33                     |                         |
| For Elevated Installation >20' To 25', Add  | 61.67                     |                         |
| For Elevated Installation >25' To 30', Add  | 86.33                     |                         |
| For Elevated Installation >30' To 35', Add  | 98.67                     |                         |
| For Elevated Installation >35' To 40', Add  | 123.34                    |                         |
| For Elevated Installation >40', Add   | 135.67                    |                         |
| For Work In Restricted Working Space, Add   | 74.00                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 74.00                     |                         |
| 26 05 33 13-1070 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....      | 682.81                    | 164.45                  |
| For Elevated Installation >10' To 15', Add  | 32.89                     |                         |
| For Elevated Installation >15' To 20', Add  | 65.78                     |                         |
| For Elevated Installation >20' To 25', Add  | 82.22                     |                         |
| For Elevated Installation >25' To 30', Add  | 115.11                    |                         |
| For Elevated Installation >30' To 35', Add  | 131.56                    |                         |
| For Elevated Installation >35' To 40', Add  | 164.45                    |                         |
| For Elevated Installation >40', Add   | 180.89                    |                         |
| For Work In Restricted Working Space, Add   | 98.67                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 98.67                     |                         |
| 26 05 33 13-1071 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body ..... | 1,294.00                  | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 123.33                    |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 26 05 33 13-1072 | EA    |     |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....                                    | 1,865.41               | 250.32               |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 50.07                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 100.13                 |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 125.16                 |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 175.23                 |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 200.26                 |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 250.33                 |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 275.36                 |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 150.20                 |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 150.20                 |                      |
| 26 05 33 13-1073 |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small> |                        |                      |
| 26 05 33 13-1074 | EA    |     |     | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                                 | 258.84                 | 43.85                |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.77                   |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.54                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.93                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.70                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.08                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 43.86                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 48.24                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.31                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 26.31                  |                      |
| 26 05 33 13-1075 | EA    |     |     | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                                 | 280.51                 | 50.25                |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 55.27                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 30.15                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 30.15                  |                      |
| 26 05 33 13-1076 | EA    |     |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                                   | 320.43                 | 57.56                |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.51                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 23.02                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 28.78                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 40.29                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 46.04                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 57.56                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 63.31                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 34.53                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 34.53                  |                      |
| 26 05 33 13-1077 | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                               | 360.02                 | 66.69                |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.34                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.68                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.35                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.69                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.36                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.70                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 73.36                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 40.02                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 40.02                  |                      |
| 26 05 33 13-1078 | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                               | 431.88                 | 73.09                |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.62                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 29.23                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 36.54                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 51.16                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 58.47                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 73.09                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 80.39                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 43.85                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 43.85                  |                      |
| 26 05 33 13-1079 | EA    |     |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                                   | 489.41                 | 87.71                |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.54                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 35.08                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 43.85                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 61.39                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 70.16                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 87.71                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 96.48                  |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 52.62                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 52.62                  |                      |
| 26 05 33 13-1080 | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                               | 688.52                 | 123.34               |
|                  |       |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 24.67                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 49.33                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 61.67                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 86.33                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 98.67                  |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 123.34                 |                      |
|                  |       |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 135.67                 |                      |
|                  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 74.00                  |                      |
|                  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 74.00                  |                      |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 05 33 13-1081 | EA  |     | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....                                    | 954.89                 | 164.45               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 32.89                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 65.78                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 82.22                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 115.11                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 131.56                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 164.45                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 180.89                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 98.67                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 98.67                  |                      |
| 26 05 33 13-1082 | EA  |     | 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....                               | 1,373.01               | 205.55               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 41.11                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 82.22                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 102.78                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 143.89                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 164.44                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 205.56                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 226.11                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 123.33                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 123.33                 |                      |
| 26 05 33 13-1083 | EA  |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....                                    | 1,968.80               | 250.32               |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 50.07                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 100.13                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 125.16                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 175.23                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 200.26                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 250.33                 |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 275.36                 |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 150.20                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 150.20                 |                      |
| 26 05 33 13-1084 |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small> |                        |                      |
| 26 05 33 13-1085 | EA  |     | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....                                  | 212.25                 | 43.85                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.77                   |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.54                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.93                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.70                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.08                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 43.86                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 48.24                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.31                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 26.31                  |                      |
| 26 05 33 13-1086 | EA  |     | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....                                  | 228.34                 | 50.25                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 55.27                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 30.15                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 30.15                  |                      |
| 26 05 33 13-1087 | EA  |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....                                    | 262.24                 | 57.56                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.51                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 23.02                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 28.78                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 40.29                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 46.04                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 57.56                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 63.31                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 34.53                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 34.53                  |                      |
| 26 05 33 13-1088 | EA  |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....                               | 294.03                 | 66.69                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.34                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.68                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.35                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.69                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.36                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.70                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 73.36                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 40.02                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 40.02                  |                      |
| 26 05 33 13-1089 | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....                               | 393.46                 | 73.09                |
|                  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.62                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 29.23                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 36.54                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 51.16                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 58.47                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 73.09                  |                      |
|                  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 80.39                  |                      |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 43.85                  |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 43.85                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1090 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....                                 | 491.73                    | 87.71                   |
| For Elevated Installation >10' To 15', Add   | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 87.71                     |                         |
| For Elevated Installation >40', Add  | 96.48                     |                         |
| For Work In Restricted Working Space, Add  | 52.62                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 52.62                     |                         |
| 26 05 33 13-1091 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....                            | 756.09                    | 123.34                  |
| For Elevated Installation >10' To 15', Add   | 24.67                     |                         |
| For Elevated Installation >15' To 20', Add   | 49.33                     |                         |
| For Elevated Installation >20' To 25', Add   | 61.67                     |                         |
| For Elevated Installation >25' To 30', Add   | 86.33                     |                         |
| For Elevated Installation >30' To 35', Add   | 98.67                     |                         |
| For Elevated Installation >35' To 40', Add   | 123.34                    |                         |
| For Elevated Installation >40', Add  | 135.67                    |                         |
| For Work In Restricted Working Space, Add  | 74.00                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 74.00                     |                         |
| 26 05 33 13-1092 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....                                 | 1,092.36                  | 164.45                  |
| For Elevated Installation >10' To 15', Add   | 32.89                     |                         |
| For Elevated Installation >15' To 20', Add   | 65.78                     |                         |
| For Elevated Installation >20' To 25', Add   | 82.22                     |                         |
| For Elevated Installation >25' To 30', Add   | 115.11                    |                         |
| For Elevated Installation >30' To 35', Add   | 131.56                    |                         |
| For Elevated Installation >35' To 40', Add   | 164.45                    |                         |
| For Elevated Installation >40', Add  | 180.89                    |                         |
| For Work In Restricted Working Space, Add  | 98.67                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 98.67                     |                         |
| 26 05 33 13-1093 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....                            | 1,373.01                  | 205.55                  |
| For Elevated Installation >10' To 15', Add   | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add   | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add   | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add   | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add   | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add   | 205.56                    |                         |
| For Elevated Installation >40', Add  | 226.11                    |                         |
| For Work In Restricted Working Space, Add  | 123.33                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 123.33                    |                         |
| <b>26 05 33 13-1094 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1095 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....                               | 272.51                    | 43.85                   |
| For Elevated Installation >10' To 15', Add   | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.86                     |                         |
| For Elevated Installation >40', Add  | 48.24                     |                         |
| For Work In Restricted Working Space, Add  | 26.31                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 26.31                     |                         |
| 26 05 33 13-1096 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....                               | 303.32                    | 50.25                   |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 30.15                     |                         |
| 26 05 33 13-1097 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....                                 | 373.20                    | 57.56                   |
| For Elevated Installation >10' To 15', Add   | 11.51                     |                         |
| For Elevated Installation >15' To 20', Add   | 23.02                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.78                     |                         |
| For Elevated Installation >25' To 30', Add   | 40.29                     |                         |
| For Elevated Installation >30' To 35', Add   | 46.04                     |                         |
| For Elevated Installation >35' To 40', Add   | 57.56                     |                         |
| For Elevated Installation >40', Add  | 63.31                     |                         |
| For Work In Restricted Working Space, Add  | 34.53                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 34.53                     |                         |
| 26 05 33 13-1098 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....                            | 457.62                    | 66.69                   |
| For Elevated Installation >10' To 15', Add   | 13.34                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.35                     |                         |
| For Elevated Installation >25' To 30', Add   | 46.69                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 66.70                     |                         |
| For Elevated Installation >40', Add  | 73.36                     |                         |
| For Work In Restricted Working Space, Add  | 40.02                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 40.02                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1099 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit<br>Body .....   | 624.58                    | 73.09                   |
| For Elevated Installation >10' To 15', Add   | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add   | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add   | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 73.09                     |                         |
| For Elevated Installation >40', Add  | 80.39                     |                         |
| For Work In Restricted Working Space, Add  | 43.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 43.85                     |                         |
| 26 05 33 13-1100 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....          | 748.62                    | 87.71                   |
| For Elevated Installation >10' To 15', Add   | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 87.71                     |                         |
| For Elevated Installation >40', Add  | 96.48                     |                         |
| For Work In Restricted Working Space, Add  | 52.62                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 52.62                     |                         |
| <b>26 05 33 13-1101 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) Split Couplings (26 05 33 13-0848)</b> |                           |                         |
| 26 05 33 13-1102 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....                  | 57.78                     | 17.57                   |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| 26 05 33 13-1103 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....                  | 75.34                     | 21.08                   |
| For Elevated Installation >10' To 15', Add   | 4.22                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.43                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.76                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.86                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.08                     |                         |
| For Elevated Installation >40', Add  | 23.19                     |                         |
| For Work In Restricted Working Space, Add  | 12.65                     |                         |
| 26 05 33 13-1104 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....                    | 96.50                     | 28.11                   |
| For Elevated Installation >10' To 15', Add   | 5.62                      |                         |
| For Elevated Installation >15' To 20', Add   | 11.24                     |                         |
| For Elevated Installation >20' To 25', Add   | 14.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 19.68                     |                         |
| For Elevated Installation >30' To 35', Add   | 22.49                     |                         |
| For Elevated Installation >35' To 40', Add   | 28.11                     |                         |
| For Elevated Installation >40', Add  | 30.92                     |                         |
| For Work In Restricted Working Space, Add  | 16.87                     |                         |
| 26 05 33 13-1105 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....                | 130.73                    | 35.14                   |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| 26 05 33 13-1106 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....                | 169.26                    | 42.16                   |
| For Elevated Installation >10' To 15', Add   | 8.43                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.87                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.08                     |                         |
| For Elevated Installation >25' To 30', Add   | 29.52                     |                         |
| For Elevated Installation >30' To 35', Add   | 33.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.17                     |                         |
| For Elevated Installation >40', Add  | 46.38                     |                         |
| For Work In Restricted Working Space, Add  | 25.30                     |                         |
| 26 05 33 13-1107 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....                    | 277.97                    | 49.19                   |
| For Elevated Installation >10' To 15', Add   | 9.84                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.60                     |                         |
| For Elevated Installation >25' To 30', Add   | 34.44                     |                         |
| For Elevated Installation >30' To 35', Add   | 39.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 49.20                     |                         |
| For Elevated Installation >40', Add  | 54.11                     |                         |
| For Work In Restricted Working Space, Add  | 29.52                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1108 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....                           | 395.19                    | 56.22                   |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| 26 05 33 13-1109 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....                               | 489.06                    | 63.25                   |
| For Elevated Installation >10' To 15', Add   | 12.65                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.30                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.62                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.27                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.60                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.25                     |                         |
| For Elevated Installation >40', Add  | 69.57                     |                         |
| For Work In Restricted Working Space, Add  | 37.95                     |                         |
| 26 05 33 13-1110 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....                           | 672.58                    | 73.79                   |
| For Elevated Installation >10' To 15', Add   | 14.76                     |                         |
| For Elevated Installation >15' To 20', Add   | 29.52                     |                         |
| For Elevated Installation >20' To 25', Add   | 36.90                     |                         |
| For Elevated Installation >25' To 30', Add   | 51.65                     |                         |
| For Elevated Installation >30' To 35', Add   | 59.03                     |                         |
| For Elevated Installation >35' To 40', Add   | 73.79                     |                         |
| For Elevated Installation >40', Add  | 81.17                     |                         |
| For Work In Restricted Working Space, Add  | 44.27                     |                         |
| 26 05 33 13-1111 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....                               | 813.61                    | 84.33                   |
| For Elevated Installation >10' To 15', Add   | 16.87                     |                         |
| For Elevated Installation >15' To 20', Add   | 33.73                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.17                     |                         |
| For Elevated Installation >25' To 30', Add   | 59.03                     |                         |
| For Elevated Installation >30' To 35', Add   | 67.46                     |                         |
| For Elevated Installation >35' To 40', Add   | 84.33                     |                         |
| For Elevated Installation >40', Add  | 92.76                     |                         |
| For Work In Restricted Working Space, Add  | 50.60                     |                         |
| 26 05 33 13-1112 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....                               | 1,301.37                  | 133.53                  |
| For Elevated Installation >10' To 15', Add   | 26.71                     |                         |
| For Elevated Installation >15' To 20', Add   | 53.41                     |                         |
| For Elevated Installation >20' To 25', Add   | 66.76                     |                         |
| For Elevated Installation >25' To 30', Add   | 93.47                     |                         |
| For Elevated Installation >30' To 35', Add   | 106.82                    |                         |
| For Elevated Installation >35' To 40', Add   | 133.53                    |                         |
| For Elevated Installation >40', Add  | 146.88                    |                         |
| For Work In Restricted Working Space, Add  | 80.12                     |                         |
| 26 05 33 13-1113 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....                               | 1,791.16                  | 203.80                  |
| For Elevated Installation >10' To 15', Add   | 40.76                     |                         |
| For Elevated Installation >15' To 20', Add   | 81.52                     |                         |
| For Elevated Installation >20' To 25', Add   | 101.90                    |                         |
| For Elevated Installation >25' To 30', Add   | 142.66                    |                         |
| For Elevated Installation >30' To 35', Add   | 163.04                    |                         |
| For Elevated Installation >35' To 40', Add   | 203.80                    |                         |
| For Elevated Installation >40', Add  | 224.18                    |                         |
| For Work In Restricted Working Space, Add  | 122.28                    |                         |
| <b>26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1115 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....                              | 201.62                    | 43.85                   |
| For Elevated Installation >10' To 15', Add   | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.86                     |                         |
| For Elevated Installation >40', Add  | 48.24                     |                         |
| For Work In Restricted Working Space, Add  | 26.31                     |                         |
| 26 05 33 13-1116 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....                              | 236.38                    | 48.42                   |
| For Elevated Installation >10' To 15', Add   | 9.68                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.37                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.21                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.89                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 48.42                     |                         |
| For Elevated Installation >40', Add  | 53.26                     |                         |
| For Work In Restricted Working Space, Add  | 29.05                     |                         |
| 26 05 33 13-1117 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....                                | 263.21                    | 57.56                   |
| For Elevated Installation >10' To 15', Add   | 11.51                     |                         |
| For Elevated Installation >15' To 20', Add   | 23.02                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.78                     |                         |
| For Elevated Installation >25' To 30', Add   | 40.29                     |                         |
| For Elevated Installation >30' To 35', Add   | 46.04                     |                         |
| For Elevated Installation >35' To 40', Add   | 57.56                     |                         |
| For Elevated Installation >40', Add  | 63.31                     |                         |
| For Work In Restricted Working Space, Add  | 34.53                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1118 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 369.06                    | 66.69                   |
| For Elevated Installation >10' To 15', Add   | 13.34                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.35                     |                         |
| For Elevated Installation >25' To 30', Add   | 46.69                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 66.70                     |                         |
| For Elevated Installation >40', Add  | 73.36                     |                         |
| For Work In Restricted Working Space, Add  | 40.02                     |                         |
| 26 05 33 13-1119 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 478.25                    | 73.09                   |
| For Elevated Installation >10' To 15', Add   | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add   | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add   | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 73.09                     |                         |
| For Elevated Installation >40', Add  | 80.39                     |                         |
| For Work In Restricted Working Space, Add  | 43.85                     |                         |
| 26 05 33 13-1120 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 521.29                    | 87.71                   |
| For Elevated Installation >10' To 15', Add   | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 87.71                     |                         |
| For Elevated Installation >40', Add  | 96.48                     |                         |
| For Work In Restricted Working Space, Add  | 52.62                     |                         |
| 26 05 33 13-1121 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 1,182.06                  | 121.50                  |
| For Elevated Installation >10' To 15', Add   | 24.30                     |                         |
| For Elevated Installation >15' To 20', Add   | 48.60                     |                         |
| For Elevated Installation >20' To 25', Add   | 60.76                     |                         |
| For Elevated Installation >25' To 30', Add   | 85.06                     |                         |
| For Elevated Installation >30' To 35', Add   | 97.21                     |                         |
| For Elevated Installation >35' To 40', Add   | 121.51                    |                         |
| For Elevated Installation >40', Add  | 133.66                    |                         |
| For Work In Restricted Working Space, Add  | 72.91                     |                         |
| 26 05 33 13-1122 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 1,268.16                  | 164.45                  |
| For Elevated Installation >10' To 15', Add   | 32.89                     |                         |
| For Elevated Installation >15' To 20', Add   | 65.78                     |                         |
| For Elevated Installation >20' To 25', Add   | 82.23                     |                         |
| For Elevated Installation >25' To 30', Add   | 115.12                    |                         |
| For Elevated Installation >30' To 35', Add   | 131.56                    |                         |
| For Elevated Installation >35' To 40', Add   | 164.45                    |                         |
| For Elevated Installation >40', Add  | 180.90                    |                         |
| For Work In Restricted Working Space, Add  | 98.67                     |                         |
| 26 05 33 13-1123 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 2,038.08                  | 205.55                  |
| For Elevated Installation >10' To 15', Add   | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add   | 82.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add   | 143.90                    |                         |
| For Elevated Installation >30' To 35', Add   | 164.45                    |                         |
| For Elevated Installation >35' To 40', Add   | 205.57                    |                         |
| For Elevated Installation >40', Add  | 226.12                    |                         |
| For Work In Restricted Working Space, Add  | 123.34                    |                         |
| 26 05 33 13-1124 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....  | 2,143.41                  | 250.32                  |
| For Elevated Installation >10' To 15', Add   | 50.07                     |                         |
| For Elevated Installation >15' To 20', Add   | 100.14                    |                         |
| For Elevated Installation >20' To 25', Add   | 125.17                    |                         |
| For Elevated Installation >25' To 30', Add   | 175.24                    |                         |
| For Elevated Installation >30' To 35', Add   | 200.27                    |                         |
| For Elevated Installation >35' To 40', Add   | 250.34                    |                         |
| For Elevated Installation >40', Add  | 275.37                    |                         |
| For Work In Restricted Working Space, Add  | 150.20                    |                         |
| <b>26 05 33 13-1125 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) Hazardous Locations Pulling Elbows <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-1126 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations<br>Pulling Elbow.....                               | 282.69                    | 43.85                   |
| For Elevated Installation >10' To 15', Add   | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.86                     |                         |
| For Elevated Installation >40', Add  | 48.24                     |                         |
| For Work In Restricted Working Space, Add  | 26.31                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1127 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations<br>Pulling Elbow.....   | 322.19                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1128 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling<br>Elbow.....     | 611.96                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |
| 26 05 33 13-1129 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations<br>Pulling Elbow..... | 645.58                    | 66.69                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 13.34                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 26.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 33.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 46.69                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 53.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 66.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 73.36                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 40.02                     |                         |
| 26 05 33 13-1130 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations<br>Pulling Elbow..... | 872.16                    | 73.09                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.62                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 29.23                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 36.54                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 51.16                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 58.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 73.09                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 80.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 43.85                     |                         |
| 26 05 33 13-1131 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling<br>Elbow.....     | 935.84                    | 87.71                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 43.85                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 61.39                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 70.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 87.71                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 96.48                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 52.62                     |                         |
| 26 05 33 13-1132 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations<br>Pulling Elbow..... | 1,773.59                  | 123.34                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 24.67                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 49.33                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 61.67                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 86.33                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 98.67                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 123.34                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 135.67                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 74.00                     |                         |
| 26 05 33 13-1133 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling<br>Elbow.....     | 1,885.99                  | 164.45                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 32.89                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 65.78                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 82.22                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 115.11                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 131.56                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 164.45                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 180.89                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 98.67                     |                         |
| 26 05 33 13-1134 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations<br>Pulling Elbow..... | 2,742.82                  | 205.55                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 41.11                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 82.22                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 102.78                    |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 143.89                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 164.44                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 205.56                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 226.11                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 123.33                    |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 05 33 13-1135        | EA  | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow   | 3,115.80                  | 250.32                  |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 50.07                     |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 100.13                    |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 125.16                    |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 175.23                    |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 200.26                    |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 250.33                    |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 275.36                    |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 150.20                    |                         |
| <b>26 05 33 13-1136</b> |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows</b> <small>(26 05 33 13-0848)</small>     |                           |                         |
| 26 05 33 13-1137        | EA  | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow  | 111.86                    | 22.84                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                      |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                     |                         |
| 26 05 33 13-1138        | EA  | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow  | 131.16                    | 28.32                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 31.15                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.99                     |                         |
| 26 05 33 13-1139        | EA  | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow  | 156.81                    | 34.72                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.19                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.83                     |                         |
| 26 05 33 13-1140        | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow  | 184.66                    | 40.20                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                     |                         |
| <b>26 05 33 13-1141</b> |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1142        | EA  | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow                                      | 90.74                     | 22.84                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                      |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                     |                         |
| 26 05 33 13-1143        | EA  | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow                                      | 105.81                    | 28.32                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 31.15                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.99                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1144 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....               | 144.46                    | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 20.83                     |                         |
| 26 05 33 13-1145 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....           | 184.75                    | 40.20                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 44.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.12                     |                         |
| 26 05 33 13-1146 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....           | 223.34                    | 45.68                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 50.25                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 27.41                     |                         |
| 26 05 33 13-1147 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....               | 312.69                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1148 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....           | 424.25                    | 63.04                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.43                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.04                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 69.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 37.82                     |                         |
| <b>26 05 33 13-1149 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0848)</b> |                           |                         |
| 26 05 33 13-1150 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....               | 111.91                    | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.70                     |                         |
| 26 05 33 13-1151 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....               | 134.08                    | 28.32                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 31.15                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.99                     |                         |
| 26 05 33 13-1152 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....                 | 156.83                    | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 20.83                     |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 05 33 13-1153        | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....                                 | 184.70                    | 40.20                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                     |                         |
| <b>26 05 33 13-1154</b> |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-1155        | EA  | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                                 | 90.82                     | 22.84                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                      |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                     |                         |
| 26 05 33 13-1156        | EA  | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                                 | 105.81                    | 28.32                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 31.15                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.99                     |                         |
| 26 05 33 13-1157        | EA  | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                                   | 135.71                    | 34.72                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.19                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.83                     |                         |
| 26 05 33 13-1158        | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                               | 167.77                    | 40.20                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                     |                         |
| 26 05 33 13-1159        | EA  | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                               | 195.67                    | 45.68                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                      |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                     |                         |
| 26 05 33 13-1160        | EA  | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                                   | 224.09                    | 50.25                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1161        | EA  | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....                               | 401.65                    | 63.04                   |
|                         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                     |                         |
|                         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                     |                         |
|                         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                     |                         |
|                         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                     |                         |
|                         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.43                     |                         |
|                         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.04                     |                         |
|                         |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.34                     |                         |
|                         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1162 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....            | 467.80                    | 85.87                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.18                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 34.35                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 42.94                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 60.11                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 68.70                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 85.88                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 94.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 51.53                     |                         |
| 26 05 33 13-1163 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....        | 507.01                    | 96.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 19.37                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 38.74                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 48.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 67.79                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 77.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 96.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 106.52                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 58.10                     |                         |
| 26 05 33 13-1164 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....            | 629.13                    | 126.07                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 25.22                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 50.43                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 63.04                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 88.25                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 100.86                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 126.08                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 138.68                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 75.65                     |                         |
| <b>26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-1166 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....                              | 187.94                    | 43.85                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.93                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.70                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 43.86                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 48.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 26.31                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 26.31                     |                         |
| 26 05 33 13-1167 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....                              | 204.66                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 30.15                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1168 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....                                | 225.44                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 34.53                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 34.53                     |                         |
| 26 05 33 13-1169 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....                            | 296.98                    | 66.69                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.34                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.69                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 73.36                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 40.02                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 40.02                     |                         |
| 26 05 33 13-1170 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....                            | 371.40                    | 73.09                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.62                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 29.23                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 36.54                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 51.16                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 58.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 73.09                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 80.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 43.85                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 43.85                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1171 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover              |                           |                         |
| 26 05 33 13-1172 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....   | 221.41                    | 43.85                   |
| For Elevated Installation >10' To 15', Add   | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.86                     |                         |
| For Elevated Installation >40', Add  | 48.24                     |                         |
| For Work In Restricted Working Space, Add  | 26.31                     |                         |
| 26 05 33 13-1173 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....   | 240.18                    | 50.25                   |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| 26 05 33 13-1174 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....     | 280.10                    | 57.56                   |
| For Elevated Installation >10' To 15', Add   | 11.51                     |                         |
| For Elevated Installation >15' To 20', Add   | 23.02                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.78                     |                         |
| For Elevated Installation >25' To 30', Add   | 40.29                     |                         |
| For Elevated Installation >30' To 35', Add   | 46.04                     |                         |
| For Elevated Installation >35' To 40', Add   | 57.56                     |                         |
| For Elevated Installation >40', Add  | 63.31                     |                         |
| For Work In Restricted Working Space, Add  | 34.53                     |                         |
| 26 05 33 13-1175 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover..... | 391.84                    | 66.69                   |
| For Elevated Installation >10' To 15', Add   | 13.34                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.35                     |                         |
| For Elevated Installation >25' To 30', Add   | 46.69                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 66.70                     |                         |
| For Elevated Installation >40', Add  | 73.36                     |                         |
| For Work In Restricted Working Space, Add  | 40.02                     |                         |
| 26 05 33 13-1176 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover..... | 617.21                    | 73.09                   |
| For Elevated Installation >10' To 15', Add   | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add   | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add   | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add   | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 73.09                     |                         |
| For Elevated Installation >40', Add  | 80.39                     |                         |
| For Work In Restricted Working Space, Add  | 43.85                     |                         |
| 26 05 33 13-1177 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....     | 671.70                    | 87.71                   |
| For Elevated Installation >10' To 15', Add   | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add   | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add   | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add   | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 87.71                     |                         |
| For Elevated Installation >40', Add  | 96.48                     |                         |
| For Work In Restricted Working Space, Add  | 52.62                     |                         |
| 26 05 33 13-1178 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover                                |                           |                         |
| 26 05 33 13-1179 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....                     | 240.40                    | 43.85                   |
| For Elevated Installation >10' To 15', Add   | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 43.86                     |                         |
| For Elevated Installation >40', Add  | 48.24                     |                         |
| For Work In Restricted Working Space, Add  | 26.31                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1180 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....                                    | 271.86                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1181 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....                                      | 298.17                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |
| 26 05 33 13-1182 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....                                  | 410.21                    | 66.69                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 13.34                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 26.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 33.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 46.69                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 53.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 66.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 73.36                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 40.02                     |                         |
| 26 05 33 13-1183 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....                                  | 661.02                    | 73.09                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.62                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 29.23                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 36.54                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 51.16                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 58.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 73.09                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 80.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 43.85                     |                         |
| 26 05 33 13-1184 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....                                      | 711.91                    | 87.71                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 43.85                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 61.39                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 70.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 87.71                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 96.48                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 52.62                     |                         |
| <b>26 05 33 13-1185 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1186 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....                              | 240.54                    | 43.85                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.93                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.70                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 43.86                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 48.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.31                     |                         |
| 26 05 33 13-1187 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....                              | 266.25                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1188 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....                                | 315.62                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|---|------------------------|----------------------|
| 26 05 33 13-1189   | EA  |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover ..... | 424.20                 | 66.69                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.34                  |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.68                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.35                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.69                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.36                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.70                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 73.36                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 40.02                  |                      |
| 26 05 33 13-1190   | EA  |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover ..... | 681.90                 | 73.09                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 14.62                  |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 29.23                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 36.54                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 51.16                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 58.47                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 73.09                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 80.39                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 43.85                  |                      |
| 26 05 33 13-1191   | EA  |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....     | 737.65                 | 87.71                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.54                  |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 35.08                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 43.85                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 61.39                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 70.16                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 87.71                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 96.48                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 52.62                  |                      |
| <b>26 05 33 13-1192 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0848)</small></b> |     |     |   |                        |                      |
| 26 05 33 13-1193   | EA  |     | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....         | 293.12                 | 43.85                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.77                   |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.54                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.93                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.70                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.08                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 43.86                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 48.24                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 26.31                  |                      |
| 26 05 33 13-1194   | EA  |     | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....         | 324.70                 | 50.25                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                  |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 55.27                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 30.15                  |                      |
| 26 05 33 13-1195   | EA  |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....           | 353.63                 | 57.56                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.51                  |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 23.02                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 28.78                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 40.29                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 46.04                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 57.56                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 63.31                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 34.53                  |                      |
| 26 05 33 13-1196   | EA  |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....       | 849.14                 | 66.69                |
|  |     |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.34                  |                      |
|  |     |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.68                  |                      |
|  |     |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.35                  |                      |
|  |     |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 46.69                  |                      |
|  |     |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.36                  |                      |
|  |     |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 66.70                  |                      |
|  |     |     | <i>For Elevated Installation &gt;40', Add</i>   | 73.36                  |                      |
|  |     |     | <i>For Work In Restricted Working Space, Add</i>  | 40.02                  |                      |

**26 05 33 13-1197 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0848)**  
 Note: Excludes cover.



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1198 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....                               | 152.93                    | 43.85                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.93                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.70                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 43.86                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 48.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.31                     |                         |
| 26 05 33 13-1199 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....                               | 169.24                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1200 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....                                 | 189.75                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |
| 26 05 33 13-1201 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....                               | 167.18                    | 43.85                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.93                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.70                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 43.86                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 48.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.31                     |                         |
| 26 05 33 13-1202 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....                               | 181.70                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1203 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box.....                                 | 207.08                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |
| <br>26 05 33 13-1204 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br>(RGS) FD Series Junction Boxes <small>(26 05 33 13-0848)</small> |                           |                         |
| Note: Excludes cover.  |                           |                         |
| 26 05 33 13-1205 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....                               | 159.67                    | 43.85                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.77                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.93                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.70                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 35.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 43.86                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 48.24                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 26.31                     |                         |
| 26 05 33 13-1206 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....                               | 176.82                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1207 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....                                 | 194.99                    | 57.56                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 23.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.78                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 40.29                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 46.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 57.56                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 63.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 34.53                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1208 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box ..... | 176.83                    | 43.85                   |
| For Elevated Installation >10' To 15', Add  | 8.77                      |                         |
| For Elevated Installation >15' To 20', Add  | 17.54                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.93                     |                         |
| For Elevated Installation >25' To 30', Add  | 30.70                     |                         |
| For Elevated Installation >30' To 35', Add  | 35.08                     |                         |
| For Elevated Installation >35' To 40', Add  | 43.86                     |                         |
| For Elevated Installation >40', Add   | 48.24                     |                         |
| For Work In Restricted Working Space, Add   | 26.31                     |                         |
| 26 05 33 13-1209 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box ..... | 194.15                    | 50.25                   |
| For Elevated Installation >10' To 15', Add  | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add  | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add  | 50.25                     |                         |
| For Elevated Installation >40', Add   | 55.27                     |                         |
| For Work In Restricted Working Space, Add   | 30.15                     |                         |
| 26 05 33 13-1210 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....   | 219.88                    | 57.56                   |
| For Elevated Installation >10' To 15', Add  | 11.51                     |                         |
| For Elevated Installation >15' To 20', Add  | 23.02                     |                         |
| For Elevated Installation >20' To 25', Add  | 28.78                     |                         |
| For Elevated Installation >25' To 30', Add  | 40.29                     |                         |
| For Elevated Installation >30' To 35', Add  | 46.04                     |                         |
| For Elevated Installation >35' To 40', Add  | 57.56                     |                         |
| For Elevated Installation >40', Add   | 63.31                     |                         |
| For Work In Restricted Working Space, Add   | 34.53                     |                         |
| <b>26 05 33 13-1211 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers</b> <small>(26 05 33 13-0848)</small>  |                           |                         |
| 26 05 33 13-1212 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover .....                             | 51.31                     | 5.48                    |
| For Elevated Installation >10' To 15', Add  | 1.10                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.19                      |                         |
| For Elevated Installation >20' To 25', Add  | 2.74                      |                         |
| For Elevated Installation >25' To 30', Add  | 3.84                      |                         |
| For Elevated Installation >30' To 35', Add  | 4.38                      |                         |
| For Elevated Installation >35' To 40', Add  | 5.48                      |                         |
| For Elevated Installation >40', Add   | 6.03                      |                         |
| For Work In Restricted Working Space, Add   | 3.29                      |                         |
| 26 05 33 13-1213 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover .....                            | 69.24                     | 6.39                    |
| For Elevated Installation >10' To 15', Add  | 1.28                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.56                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.20                      |                         |
| For Elevated Installation >25' To 30', Add  | 4.48                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.12                      |                         |
| For Elevated Installation >35' To 40', Add  | 6.40                      |                         |
| For Elevated Installation >40', Add   | 7.03                      |                         |
| For Work In Restricted Working Space, Add   | 3.84                      |                         |
| 26 05 33 13-1214 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover .....                            | 65.54                     | 6.39                    |
| For Elevated Installation >10' To 15', Add  | 1.28                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.56                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.20                      |                         |
| For Elevated Installation >25' To 30', Add  | 4.48                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.12                      |                         |
| For Elevated Installation >35' To 40', Add  | 6.40                      |                         |
| For Elevated Installation >40', Add   | 7.03                      |                         |
| For Work In Restricted Working Space, Add   | 3.84                      |                         |
| 26 05 33 13-1215 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover .....                           | 58.63                     | 6.39                    |
| For Elevated Installation >10' To 15', Add  | 1.28                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.56                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.20                      |                         |
| For Elevated Installation >25' To 30', Add  | 4.48                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.12                      |                         |
| For Elevated Installation >35' To 40', Add  | 6.40                      |                         |
| For Elevated Installation >40', Add   | 7.03                      |                         |
| For Work In Restricted Working Space, Add   | 3.84                      |                         |
| 26 05 33 13-1216 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover .....                            | 274.41                    | 9.14                    |
| For Elevated Installation >10' To 15', Add  | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.40                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.14                      |                         |
| For Elevated Installation >40', Add   | 10.05                     |                         |
| For Work In Restricted Working Space, Add   | 5.48                      |                         |
| 26 05 33 13-1217 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover .....                            | 244.45                    | 9.14                    |
| For Elevated Installation >10' To 15', Add  | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.40                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.14                      |                         |
| For Elevated Installation >40', Add   | 10.05                     |                         |
| For Work In Restricted Working Space, Add   | 5.48                      |                         |



|                  | MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|------------------|---|---|-------------------------|
| 26 05 33 13-1218 | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies</b> <small>(26 05 33 13-0848)</small><br>Note: Includes covers.   |   |                         |
| 26 05 33 13-1219 | EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add     | 311.75<br>11.51<br>23.02<br>28.78<br>40.29<br>46.04<br>57.56<br>63.31<br>34.53          | 57.56                   |
| 26 05 33 13-1220 | EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add | 351.25<br>13.34<br>26.68<br>33.35<br>46.69<br>53.36<br>66.70<br>73.36<br>40.02          | 66.69                   |
| 26 05 33 13-1221 | EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add | 475.06<br>14.62<br>29.23<br>36.54<br>51.16<br>58.47<br>73.09<br>80.39<br>43.85          | 73.09                   |
| 26 05 33 13-1222 | EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add     | 566.40<br>17.54<br>35.08<br>43.85<br>61.39<br>70.16<br>87.71<br>96.48<br>52.62          | 87.71                   |
| 26 05 33 13-1223 | EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add | 816.49<br>24.67<br>49.33<br>61.67<br>86.33<br>98.67<br>123.34<br>135.67<br>74.00        | 123.34                  |
| 26 05 33 13-1224 | EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add     | 1,034.85<br>32.89<br>65.78<br>82.22<br>115.11<br>131.56<br>164.45<br>180.89<br>98.67    | 164.45                  |
| 26 05 33 13-1225 | EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add | 1,498.37<br>41.11<br>82.22<br>102.78<br>143.89<br>164.44<br>205.56<br>226.11<br>123.33  | 205.55                  |
| 26 05 33 13-1226 | EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add     | 1,856.73<br>50.07<br>100.13<br>125.16<br>175.23<br>200.26<br>250.33<br>275.36<br>150.20 | 250.32                  |
| 26 05 33 13-1227 | EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br>For Elevated Installation >10' To 15', Add<br>For Elevated Installation >15' To 20', Add<br>For Elevated Installation >20' To 25', Add<br>For Elevated Installation >25' To 30', Add<br>For Elevated Installation >30' To 35', Add<br>For Elevated Installation >35' To 40', Add<br>For Elevated Installation >40', Add<br>For Work In Restricted Working Space, Add    | 311.75<br>11.51<br>23.02<br>28.78<br>40.29<br>46.04<br>57.56<br>63.31<br>34.53          | 57.56                   |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|----------|---------|-----|--|---|----------------------|
| 26 05 33 | 13-1228 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 351.25<br>13.34<br>26.68<br>33.35<br>46.69<br>53.36<br>66.70<br>73.36<br>40.02          | 66.69                |
| 26 05 33 | 13-1229 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 473.85<br>14.62<br>29.23<br>36.54<br>51.16<br>58.47<br>73.09<br>80.39<br>43.85          | 73.09                |
| 26 05 33 | 13-1230 | EA  | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 554.20<br>17.54<br>35.08<br>43.85<br>61.39<br>70.16<br>87.71<br>96.48<br>52.62          | 87.71                |
| 26 05 33 | 13-1231 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 827.73<br>24.67<br>49.33<br>61.67<br>86.33<br>98.67<br>123.34<br>135.67<br>74.00        | 123.34               |
| 26 05 33 | 13-1232 | EA  | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 1,085.26<br>32.89<br>65.78<br>82.22<br>115.11<br>131.56<br>164.45<br>180.89<br>98.67    | 164.45               |
| 26 05 33 | 13-1233 | EA  | 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i> | 1,559.22<br>41.11<br>82.22<br>102.78<br>143.89<br>164.44<br>205.56<br>226.11<br>123.33  | 205.55               |
| 26 05 33 | 13-1234 | EA  | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>     | 1,894.62<br>50.07<br>100.13<br>125.16<br>175.23<br>200.26<br>250.33<br>275.36<br>150.20 | 250.32               |
| 26 05 33 | 13-1235 | EA  | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>      | 311.75<br>11.51<br>23.02<br>28.78<br>40.29<br>46.04<br>57.56<br>63.31<br>34.53          | 57.56                |
| 26 05 33 | 13-1236 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i>  | 351.25<br>13.34<br>26.68<br>33.35<br>46.69<br>53.36<br>66.70<br>73.36<br>40.02          | 66.69                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1237 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....  | 473.85                    | 73.09                   |
| For Elevated Installation >10' To 15', Add  | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add  | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add  | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add  | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 73.09                     |                         |
| For Elevated Installation >40', Add   | 80.39                     |                         |
| For Work In Restricted Working Space, Add   | 43.85                     |                         |
| 26 05 33 13-1238 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....      | 554.20                    | 87.71                   |
| For Elevated Installation >10' To 15', Add  | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add  | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add  | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add  | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 87.71                     |                         |
| For Elevated Installation >40', Add   | 96.48                     |                         |
| For Work In Restricted Working Space, Add   | 52.62                     |                         |
| 26 05 33 13-1239 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....  | 827.73                    | 123.34                  |
| For Elevated Installation >10' To 15', Add  | 24.67                     |                         |
| For Elevated Installation >15' To 20', Add  | 49.33                     |                         |
| For Elevated Installation >20' To 25', Add  | 61.67                     |                         |
| For Elevated Installation >25' To 30', Add  | 86.33                     |                         |
| For Elevated Installation >30' To 35', Add  | 98.67                     |                         |
| For Elevated Installation >35' To 40', Add  | 123.34                    |                         |
| For Elevated Installation >40', Add   | 135.67                    |                         |
| For Work In Restricted Working Space, Add   | 74.00                     |                         |
| 26 05 33 13-1240 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....      | 1,085.26                  | 164.45                  |
| For Elevated Installation >10' To 15', Add  | 32.89                     |                         |
| For Elevated Installation >15' To 20', Add  | 65.78                     |                         |
| For Elevated Installation >20' To 25', Add  | 82.22                     |                         |
| For Elevated Installation >25' To 30', Add  | 115.11                    |                         |
| For Elevated Installation >30' To 35', Add  | 131.56                    |                         |
| For Elevated Installation >35' To 40', Add  | 164.45                    |                         |
| For Elevated Installation >40', Add   | 180.89                    |                         |
| For Work In Restricted Working Space, Add   | 98.67                     |                         |
| 26 05 33 13-1241 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....  | 1,559.22                  | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| 26 05 33 13-1242 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....      | 1,894.62                  | 250.32                  |
| For Elevated Installation >10' To 15', Add  | 50.07                     |                         |
| For Elevated Installation >15' To 20', Add  | 100.13                    |                         |
| For Elevated Installation >20' To 25', Add  | 125.16                    |                         |
| For Elevated Installation >25' To 30', Add  | 175.23                    |                         |
| For Elevated Installation >30' To 35', Add  | 200.26                    |                         |
| For Elevated Installation >35' To 40', Add  | 250.33                    |                         |
| For Elevated Installation >40', Add   | 275.36                    |                         |
| For Work In Restricted Working Space, Add   | 150.20                    |                         |
| 26 05 33 13-1243 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body .....     | 311.75                    | 57.56                   |
| For Elevated Installation >10' To 15', Add  | 11.51                     |                         |
| For Elevated Installation >15' To 20', Add  | 23.02                     |                         |
| For Elevated Installation >20' To 25', Add  | 28.78                     |                         |
| For Elevated Installation >25' To 30', Add  | 40.29                     |                         |
| For Elevated Installation >30' To 35', Add  | 46.04                     |                         |
| For Elevated Installation >35' To 40', Add  | 57.56                     |                         |
| For Elevated Installation >40', Add   | 63.31                     |                         |
| For Work In Restricted Working Space, Add   | 34.53                     |                         |
| 26 05 33 13-1244 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body ..... | 351.25                    | 66.69                   |
| For Elevated Installation >10' To 15', Add  | 13.34                     |                         |
| For Elevated Installation >15' To 20', Add  | 26.68                     |                         |
| For Elevated Installation >20' To 25', Add  | 33.35                     |                         |
| For Elevated Installation >25' To 30', Add  | 46.69                     |                         |
| For Elevated Installation >30' To 35', Add  | 53.36                     |                         |
| For Elevated Installation >35' To 40', Add  | 66.70                     |                         |
| For Elevated Installation >40', Add   | 73.36                     |                         |
| For Work In Restricted Working Space, Add   | 40.02                     |                         |
| 26 05 33 13-1245 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body ..... | 475.06                    | 73.09                   |
| For Elevated Installation >10' To 15', Add  | 14.62                     |                         |
| For Elevated Installation >15' To 20', Add  | 29.23                     |                         |
| For Elevated Installation >20' To 25', Add  | 36.54                     |                         |
| For Elevated Installation >25' To 30', Add  | 51.16                     |                         |
| For Elevated Installation >30' To 35', Add  | 58.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 73.09                     |                         |
| For Elevated Installation >40', Add   | 80.39                     |                         |
| For Work In Restricted Working Space, Add   | 43.85                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1246 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....                  | 560.77                    | 87.71                   |
| For Elevated Installation >10' To 15', Add  | 17.54                     |                         |
| For Elevated Installation >15' To 20', Add  | 35.08                     |                         |
| For Elevated Installation >20' To 25', Add  | 43.85                     |                         |
| For Elevated Installation >25' To 30', Add  | 61.39                     |                         |
| For Elevated Installation >30' To 35', Add  | 70.16                     |                         |
| For Elevated Installation >35' To 40', Add  | 87.71                     |                         |
| For Elevated Installation >40', Add   | 96.48                     |                         |
| For Work In Restricted Working Space, Add   | 52.62                     |                         |
| 26 05 33 13-1247 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....              | 816.49                    | 123.34                  |
| For Elevated Installation >10' To 15', Add  | 24.67                     |                         |
| For Elevated Installation >15' To 20', Add  | 49.33                     |                         |
| For Elevated Installation >20' To 25', Add  | 61.67                     |                         |
| For Elevated Installation >25' To 30', Add  | 86.33                     |                         |
| For Elevated Installation >30' To 35', Add  | 98.67                     |                         |
| For Elevated Installation >35' To 40', Add  | 123.34                    |                         |
| For Elevated Installation >40', Add   | 135.67                    |                         |
| For Work In Restricted Working Space, Add   | 74.00                     |                         |
| 26 05 33 13-1248 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....                  | 1,034.85                  | 164.45                  |
| For Elevated Installation >10' To 15', Add  | 32.89                     |                         |
| For Elevated Installation >15' To 20', Add  | 65.78                     |                         |
| For Elevated Installation >20' To 25', Add  | 82.22                     |                         |
| For Elevated Installation >25' To 30', Add  | 115.11                    |                         |
| For Elevated Installation >30' To 35', Add  | 131.56                    |                         |
| For Elevated Installation >35' To 40', Add  | 164.45                    |                         |
| For Elevated Installation >40', Add   | 180.89                    |                         |
| For Work In Restricted Working Space, Add   | 98.67                     |                         |
| 26 05 33 13-1249 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....              | 1,498.37                  | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| 26 05 33 13-1250 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....                  | 1,872.51                  | 250.32                  |
| For Elevated Installation >10' To 15', Add  | 50.07                     |                         |
| For Elevated Installation >15' To 20', Add  | 100.13                    |                         |
| For Elevated Installation >20' To 25', Add  | 125.16                    |                         |
| For Elevated Installation >25' To 30', Add  | 175.23                    |                         |
| For Elevated Installation >30' To 35', Add  | 200.26                    |                         |
| For Elevated Installation >35' To 40', Add  | 250.33                    |                         |
| For Elevated Installation >40', Add   | 275.36                    |                         |
| For Work In Restricted Working Space, Add   | 150.20                    |                         |
| <b>26 05 33 13-1251 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0848)</b> |                           |                         |
| 26 05 33 13-1252 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....                 | 144.56                    | 8.23                    |
| For Elevated Installation >10' To 15', Add  | 1.64                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.29                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.11                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.75                      |                         |
| For Elevated Installation >30' To 35', Add  | 6.58                      |                         |
| For Elevated Installation >35' To 40', Add  | 8.22                      |                         |
| For Elevated Installation >40', Add   | 9.04                      |                         |
| For Work In Restricted Working Space, Add   | 4.93                      |                         |
| 26 05 33 13-1253 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....             | 146.40                    | 9.14                    |
| For Elevated Installation >10' To 15', Add  | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.40                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.14                      |                         |
| For Elevated Installation >40', Add   | 10.05                     |                         |
| For Work In Restricted Working Space, Add   | 5.48                      |                         |
| 26 05 33 13-1254 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....             | 206.88                    | 12.79                   |
| For Elevated Installation >10' To 15', Add  | 2.56                      |                         |
| For Elevated Installation >15' To 20', Add  | 5.12                      |                         |
| For Elevated Installation >20' To 25', Add  | 6.40                      |                         |
| For Elevated Installation >25' To 30', Add  | 8.95                      |                         |
| For Elevated Installation >30' To 35', Add  | 10.23                     |                         |
| For Elevated Installation >35' To 40', Add  | 12.79                     |                         |
| For Elevated Installation >40', Add   | 14.07                     |                         |
| For Work In Restricted Working Space, Add   | 7.67                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1255 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....                          | 210.54                    | 14.62                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.92                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 5.85                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 7.31                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 10.23                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 11.70                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 14.62                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 16.08                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.77                      |                         |
| 26 05 33 13-1256 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....                      | 363.71                    | 17.35                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.47                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 6.94                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 8.68                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 12.15                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 13.89                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 19.10                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.42                     |                         |
| 26 05 33 13-1257 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....                          | 372.84                    | 21.92                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.39                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.77                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.96                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.35                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 17.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 21.93                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 24.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.16                     |                         |
| 26 05 33 13-1258 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....                      | 557.27                    | 24.67                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.93                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.87                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 12.33                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 17.27                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 19.73                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 24.67                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 27.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 14.80                     |                         |
| 26 05 33 13-1259 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....                          | 571.89                    | 31.97                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.40                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.79                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.99                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 22.38                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 25.58                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 31.98                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 35.17                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 19.19                     |                         |
| <b>26 05 33 13-1260 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1261 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....                              | 253.39                    | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.70                     |                         |
| 26 05 33 13-1262 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....                              | 300.06                    | 28.32                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 31.15                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.99                     |                         |
| 26 05 33 13-1263 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....                                | 355.79                    | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 20.83                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1264 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 437.00                    | 40.20                   |
| For Elevated Installation >10' To 15', Add   | 8.04                      |                         |
| For Elevated Installation >15' To 20', Add   | 16.08                     |                         |
| For Elevated Installation >20' To 25', Add   | 20.10                     |                         |
| For Elevated Installation >25' To 30', Add   | 28.14                     |                         |
| For Elevated Installation >30' To 35', Add   | 32.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 40.20                     |                         |
| For Elevated Installation >40', Add  | 44.21                     |                         |
| For Work In Restricted Working Space, Add  | 24.12                     |                         |
| 26 05 33 13-1265 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 580.07                    | 45.68                   |
| For Elevated Installation >10' To 15', Add   | 9.14                      |                         |
| For Elevated Installation >15' To 20', Add   | 18.27                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.84                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 36.54                     |                         |
| For Elevated Installation >35' To 40', Add   | 45.68                     |                         |
| For Elevated Installation >40', Add  | 50.25                     |                         |
| For Work In Restricted Working Space, Add  | 27.41                     |                         |
| 26 05 33 13-1266 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 796.47                    | 50.25                   |
| For Elevated Installation >10' To 15', Add   | 10.05                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.10                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.12                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.17                     |                         |
| For Elevated Installation >30' To 35', Add   | 40.20                     |                         |
| For Elevated Installation >35' To 40', Add   | 50.25                     |                         |
| For Elevated Installation >40', Add  | 55.27                     |                         |
| For Work In Restricted Working Space, Add  | 30.15                     |                         |
| 26 05 33 13-1267 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 1,133.04                  | 63.04                   |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.04                     |                         |
| For Elevated Installation >40', Add  | 69.34                     |                         |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| 26 05 33 13-1268 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 1,412.69                  | 85.87                   |
| For Elevated Installation >10' To 15', Add   | 17.18                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.35                     |                         |
| For Elevated Installation >20' To 25', Add   | 42.94                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 68.70                     |                         |
| For Elevated Installation >35' To 40', Add   | 85.88                     |                         |
| For Elevated Installation >40', Add  | 94.46                     |                         |
| For Work In Restricted Working Space, Add  | 51.53                     |                         |
| 26 05 33 13-1269 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 1,969.99                  | 96.84                   |
| For Elevated Installation >10' To 15', Add   | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add   | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add   | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add   | 96.84                     |                         |
| For Elevated Installation >40', Add  | 106.52                    |                         |
| For Work In Restricted Working Space, Add  | 58.10                     |                         |
| 26 05 33 13-1270 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....  | 2,277.87                  | 126.07                  |
| For Elevated Installation >10' To 15', Add   | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add   | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add   | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add   | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add   | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add   | 126.08                    |                         |
| For Elevated Installation >40', Add  | 138.68                    |                         |
| For Work In Restricted Working Space, Add  | 75.65                     |                         |
| <b>26 05 33 13-1271 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1272 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....                             | 395.69                    | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.14                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1273 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....   | 413.25                    | 28.32                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 31.15                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 16.99                     |                         |
| 26 05 33 13-1274 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....     | 465.62                    | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 20.83                     |                         |
| 26 05 33 13-1275 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper ..... | 562.50                    | 40.20                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 44.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 24.12                     |                         |
| 26 05 33 13-1276 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper ..... | 680.27                    | 45.68                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 50.25                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 27.41                     |                         |
| 26 05 33 13-1277 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....     | 865.46                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 30.15                     |                         |
| 26 05 33 13-1278 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper ..... | 1,272.00                  | 63.04                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.43                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.04                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 69.34                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 37.82                     |                         |
| 26 05 33 13-1279 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....     | 1,598.39                  | 85.87                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.18                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.35                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 42.94                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.11                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 68.70                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 85.88                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 94.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 51.53                     |                         |
| 26 05 33 13-1280 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper ..... | 2,029.94                  | 96.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 19.37                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 38.74                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 48.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 67.79                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 77.47                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 96.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 106.52                    |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 58.10                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1281 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper ..... | 2,543.38                  | 126.07                  |
| For Elevated Installation >10' To 15', Add   | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add   | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add   | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add   | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add   | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add   | 126.08                    |                         |
| For Elevated Installation >40', Add  | 138.68                    |                         |
| For Work In Restricted Working Space, Add  | 75.65                     |                         |
| <b>26 05 33 13-1282 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0848)</b>      |                           |                         |
| 26 05 33 13-1283 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                    | 85.47                     | 10.96                   |
| For Elevated Installation >10' To 15', Add   | 2.19                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.38                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.48                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.67                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.77                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.96                     |                         |
| For Elevated Installation >40', Add  | 12.06                     |                         |
| For Work In Restricted Working Space, Add  | 6.58                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 6.58                      |                         |
| 26 05 33 13-1284 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                    | 93.63                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.22                      |                         |
| 26 05 33 13-1285 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                      | 103.74                    | 16.44                   |
| For Elevated Installation >10' To 15', Add   | 3.29                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.58                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.22                      |                         |
| For Elevated Installation >25' To 30', Add   | 11.51                     |                         |
| For Elevated Installation >30' To 35', Add   | 13.16                     |                         |
| For Elevated Installation >35' To 40', Add   | 16.45                     |                         |
| For Elevated Installation >40', Add  | 18.09                     |                         |
| For Work In Restricted Working Space, Add  | 9.87                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 9.87                      |                         |
| 26 05 33 13-1286 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                  | 118.15                    | 20.10                   |
| For Elevated Installation >10' To 15', Add   | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.10                     |                         |
| For Elevated Installation >40', Add  | 22.11                     |                         |
| For Work In Restricted Working Space, Add  | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.06                     |                         |
| 26 05 33 13-1287 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                  | 156.71                    | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.14                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.70                     |                         |
| 26 05 33 13-1288 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                      | 190.27                    | 25.58                   |
| For Elevated Installation >10' To 15', Add   | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 12.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.91                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.46                     |                         |
| For Elevated Installation >35' To 40', Add   | 25.58                     |                         |
| For Elevated Installation >40', Add  | 28.14                     |                         |
| For Work In Restricted Working Space, Add  | 15.35                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 15.35                     |                         |
| 26 05 33 13-1289 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....                  | 269.92                    | 31.97                   |
| For Elevated Installation >10' To 15', Add   | 6.40                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.79                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.99                     |                         |
| For Elevated Installation >25' To 30', Add   | 22.38                     |                         |
| For Elevated Installation >30' To 35', Add   | 25.58                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.98                     |                         |
| For Elevated Installation >40', Add  | 35.17                     |                         |
| For Work In Restricted Working Space, Add  | 19.19                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 19.19                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 05 33 13-1290 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 353.01<br>8.59<br>17.18<br>21.47<br>30.06<br>34.35<br>42.94<br>47.23<br>25.76<br>25.76        | 42.94                   |
| 26 05 33 13-1291 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 447.36<br>9.68<br>19.37<br>24.21<br>33.89<br>38.74<br>48.42<br>53.26<br>29.05<br>29.05        | 48.42                   |
| 26 05 33 13-1292 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 563.77<br>12.61<br>25.21<br>31.52<br>44.12<br>50.43<br>63.04<br>69.34<br>37.82<br>37.82       | 63.04                   |
| 26 05 33 13-1293 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 713.67<br>20.46<br>40.93<br>51.16<br>71.62<br>81.86<br>102.32<br>112.55<br>61.39<br>61.39     | 102.32                  |
| 26 05 33 13-1294 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 1,076.37<br>30.88<br>61.76<br>77.20<br>108.08<br>123.52<br>154.40<br>169.83<br>92.64<br>92.64 | 154.40                  |
| <b>26 05 33 13-1295 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs</b> <small>(26 05 33 13-0848)</small>   |   |                         |
| 26 05 33 13-1296 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 125.90<br>2.19<br>4.38<br>5.48<br>7.67<br>8.77<br>10.96<br>12.06<br>6.58<br>6.58              | 10.96                   |
| 26 05 33 13-1297 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 134.35<br>2.74<br>5.48<br>6.85<br>9.59<br>10.96<br>13.70<br>15.07<br>8.22<br>8.22             | 13.71                   |
| 26 05 33 13-1298 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....<br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 145.35<br>3.29<br>6.58<br>8.22<br>11.51<br>13.16<br>16.45<br>18.09<br>9.87<br>9.87            | 16.44                   |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-1299 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... | 166.67                 | 20.10                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.02                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 14.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 22.11                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 12.06                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 12.06                  |                      |
| 26 05 33 | 13-1300 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... | 179.62                 | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 13.70                  |                      |
| 26 05 33 | 13-1301 | EA  | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....     | 203.03                 | 25.58                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.12                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 10.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 12.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 17.91                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 20.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 25.58                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 28.14                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 15.35                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 15.35                  |                      |
| 26 05 33 | 13-1302 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... | 305.73                 | 31.97                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.40                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 22.38                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 25.58                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 31.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 35.17                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 19.19                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 19.19                  |                      |
| 26 05 33 | 13-1303 | EA  | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....     | 368.45                 | 42.94                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 34.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 42.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 47.23                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 25.76                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 25.76                  |                      |
| 26 05 33 | 13-1304 | EA  | 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... | 450.69                 | 48.42                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 19.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 24.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 33.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 38.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 48.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 53.26                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 29.05                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 29.05                  |                      |
| 26 05 33 | 13-1305 | EA  | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....     | 585.30                 | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.04                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.34                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 37.82                  |                      |
| 26 05 33 | 13-1306 | EA  | 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....     | 912.78                 | 102.32               |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 20.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 40.93                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 51.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 71.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 81.86                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 102.32                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 112.55                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 61.39                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 61.39                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1307 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....                                 | 1,486.69                  | 154.40                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 30.88                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 61.76                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 77.20                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 108.08                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 123.52                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 154.40                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 169.83                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 92.64                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 92.64                     |                         |
| <br>  |                           |                         |
| <b>26 05 33 13-1308 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1309 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....                              | 134.88                    | 10.96                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.19                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.38                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.48                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.67                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.77                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.96                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 12.06                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 6.58                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 6.58                      |                         |
| 26 05 33 13-1310 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....                              | 142.88                    | 13.71                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.74                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.48                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.85                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.59                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.96                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 15.07                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 8.22                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 8.22                      |                         |
| 26 05 33 13-1311 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....                                | 154.26                    | 16.44                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.29                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.58                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.22                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 11.51                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 16.45                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 18.09                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 9.87                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 9.87                      |                         |
| 26 05 33 13-1312 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....                            | 193.73                    | 20.10                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.02                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.04                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.05                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.07                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 22.11                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 12.06                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 12.06                     |                         |
| 26 05 33 13-1313 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....                            | 212.29                    | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.70                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 13.70                     |                         |
| 26 05 33 13-1314 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....                                | 225.57                    | 25.58                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.12                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.23                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 12.79                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 17.91                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 20.46                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 25.58                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 28.14                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 15.35                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 15.35                     |                         |

**26 05 33 13-1315 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions** (26 05 33 13-0848)

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-1316 | EA  | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union   | 108.05                 | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 13.70                  |                      |
| 26 05 33 | 13-1317 | EA  | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union   | 120.14                 | 28.32                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.66                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 11.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 14.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 19.82                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 22.66                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 28.32                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 31.15                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.99                  |                      |
| 26 05 33 | 13-1318 | EA  | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union     | 154.56                 | 34.72                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 24.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 27.77                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 34.72                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 38.19                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.83                  |                      |
| 26 05 33 | 13-1319 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union | 217.40                 | 40.20                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 28.14                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 32.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 44.21                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 24.12                  |                      |
| 26 05 33 | 13-1320 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union | 256.61                 | 45.68                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 36.54                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 45.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 50.25                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 27.41                  |                      |
| 26 05 33 | 13-1321 | EA  | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union     | 320.72                 | 50.25                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 35.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 50.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 55.27                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 30.15                  |                      |
| 26 05 33 | 13-1322 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union | 424.22                 | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.04                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.34                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
| 26 05 33 | 13-1323 | EA  | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union     | 537.12                 | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.04                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.34                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
| 26 05 33 | 13-1324 | EA  | 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union | 703.55                 | 96.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 19.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 38.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 48.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 67.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 77.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 96.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 106.52                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 58.10                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1325 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....                                | 906.84                    | 126.07                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 25.22                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 50.43                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 63.04                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 88.25                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 100.86                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 126.08                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 138.68                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 75.65                     |                         |
| 26 05 33 13-1326 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....                                | 1,634.80                  | 205.55                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 41.11                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 82.22                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 102.78                    |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 143.89                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 164.44                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 205.56                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 226.11                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 123.33                    |                         |
| 26 05 33 13-1327 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....                                | 2,074.98                  | 308.79                  |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 61.76                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 123.52                    |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 154.40                    |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 216.15                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 247.03                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 308.79                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 339.67                    |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 185.27                    |                         |
| <b>26 05 33 13-1328 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0848)</small></b> |                           |                         |
| 26 05 33 13-1329 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....                              | 110.15                    | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 13.70                     |                         |
| 26 05 33 13-1330 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....                              | 128.16                    | 28.32                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.66                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 11.33                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 14.16                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 19.82                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 22.66                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 28.32                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 31.15                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 16.99                     |                         |
| 26 05 33 13-1331 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....                                | 158.83                    | 34.72                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.94                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.89                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.36                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.30                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 27.77                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 34.72                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.19                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 20.83                     |                         |
| 26 05 33 13-1332 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....                            | 225.25                    | 40.20                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.04                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 16.08                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 28.14                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 32.16                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 40.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 44.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.12                     |                         |
| 26 05 33 13-1333 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....                            | 267.51                    | 45.68                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 31.98                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 36.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 45.68                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 50.25                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 27.41                     |                         |
| 26 05 33 13-1334 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....                                | 344.25                    | 50.25                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.12                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.17                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 55.27                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 30.15                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1335 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....                             | 474.58                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| 26 05 33 13-1336 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....                                 | 588.32                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.43                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.04                     |                         |
| For Elevated Installation >40', Add   | 69.34                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| 26 05 33 13-1337 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....                             | 796.12                    | 96.84                   |
| For Elevated Installation >10' To 15', Add  | 19.37                     |                         |
| For Elevated Installation >15' To 20', Add  | 38.74                     |                         |
| For Elevated Installation >20' To 25', Add  | 48.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 67.79                     |                         |
| For Elevated Installation >30' To 35', Add  | 77.47                     |                         |
| For Elevated Installation >35' To 40', Add  | 96.84                     |                         |
| For Elevated Installation >40', Add   | 106.52                    |                         |
| For Work In Restricted Working Space, Add   | 58.10                     |                         |
| 26 05 33 13-1338 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....                                 | 999.07                    | 126.07                  |
| For Elevated Installation >10' To 15', Add  | 25.22                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.43                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.04                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.25                     |                         |
| For Elevated Installation >30' To 35', Add  | 100.86                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.08                    |                         |
| For Elevated Installation >40', Add   | 138.68                    |                         |
| For Work In Restricted Working Space, Add   | 75.65                     |                         |
| 26 05 33 13-1339 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....                                 | 1,803.87                  | 205.55                  |
| For Elevated Installation >10' To 15', Add  | 41.11                     |                         |
| For Elevated Installation >15' To 20', Add  | 82.22                     |                         |
| For Elevated Installation >20' To 25', Add  | 102.78                    |                         |
| For Elevated Installation >25' To 30', Add  | 143.89                    |                         |
| For Elevated Installation >30' To 35', Add  | 164.44                    |                         |
| For Elevated Installation >35' To 40', Add  | 205.56                    |                         |
| For Elevated Installation >40', Add   | 226.11                    |                         |
| For Work In Restricted Working Space, Add   | 123.33                    |                         |
| 26 05 33 13-1340 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....                                 | 2,347.98                  | 308.79                  |
| For Elevated Installation >10' To 15', Add  | 61.76                     |                         |
| For Elevated Installation >15' To 20', Add  | 123.52                    |                         |
| For Elevated Installation >20' To 25', Add  | 154.40                    |                         |
| For Elevated Installation >25' To 30', Add  | 216.15                    |                         |
| For Elevated Installation >30' To 35', Add  | 247.03                    |                         |
| For Elevated Installation >35' To 40', Add  | 308.79                    |                         |
| For Elevated Installation >40', Add   | 339.67                    |                         |
| For Work In Restricted Working Space, Add   | 185.27                    |                         |
| <b>26 05 33 13-1341 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings</b> <small>(26 05 33 13-0848)</small> |                           |                         |
| 26 05 33 13-1342 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....                        | 56.80                     | 7.30                    |
| For Elevated Installation >10' To 15', Add  | 1.46                      |                         |
| For Elevated Installation >15' To 20', Add  | 2.92                      |                         |
| For Elevated Installation >20' To 25', Add  | 3.65                      |                         |
| For Elevated Installation >25' To 30', Add  | 5.11                      |                         |
| For Elevated Installation >30' To 35', Add  | 5.84                      |                         |
| For Elevated Installation >35' To 40', Add  | 7.31                      |                         |
| For Elevated Installation >40', Add   | 8.04                      |                         |
| For Work In Restricted Working Space, Add   | 4.38                      |                         |
| 26 05 33 13-1343 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....                          | 63.01                     | 9.14                    |
| For Elevated Installation >10' To 15', Add  | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.40                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.14                      |                         |
| For Elevated Installation >40', Add   | 10.05                     |                         |
| For Work In Restricted Working Space, Add   | 5.48                      |                         |
| 26 05 33 13-1344 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....                          | 70.88                     | 9.14                    |
| For Elevated Installation >10' To 15', Add  | 1.83                      |                         |
| For Elevated Installation >15' To 20', Add  | 3.66                      |                         |
| For Elevated Installation >20' To 25', Add  | 4.57                      |                         |
| For Elevated Installation >25' To 30', Add  | 6.40                      |                         |
| For Elevated Installation >30' To 35', Add  | 7.31                      |                         |
| For Elevated Installation >35' To 40', Add  | 9.14                      |                         |
| For Elevated Installation >40', Add   | 10.05                     |                         |
| For Work In Restricted Working Space, Add   | 5.48                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1345 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....   | 86.84                     | 10.05                   |
| For Elevated Installation >10' To 15', Add   | 2.01                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.02                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.04                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.04                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.05                     |                         |
| For Elevated Installation >40', Add  | 11.06                     |                         |
| For Work In Restricted Working Space, Add  | 6.03                      |                         |
| 26 05 33 13-1346 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....     | 91.38                     | 10.05                   |
| For Elevated Installation >10' To 15', Add   | 2.01                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.02                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.03                      |                         |
| For Elevated Installation >25' To 30', Add   | 7.04                      |                         |
| For Elevated Installation >30' To 35', Add   | 8.04                      |                         |
| For Elevated Installation >35' To 40', Add   | 10.05                     |                         |
| For Elevated Installation >40', Add  | 11.06                     |                         |
| For Work In Restricted Working Space, Add  | 6.03                      |                         |
| 26 05 33 13-1347 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....   | 80.47                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.32                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.07                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| 26 05 33 13-1348 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....     | 90.62                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.32                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.07                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| 26 05 33 13-1349 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... | 136.27                    | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.32                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.07                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| 26 05 33 13-1350 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....       | 151.77                    | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| 26 05 33 13-1351 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....         | 147.83                    | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| 26 05 33 13-1352 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....     | 155.15                    | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| 26 05 33 13-1353 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....     | 173.57                    | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-1354 | EA  | 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....           | 174.10                 | 16.44                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.29                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.58                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.22                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 11.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 16.45                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 18.09                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.87                   |                      |
| 26 05 33 | 13-1355 | EA  | 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....                   | 223.14                 | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.14                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 13.70                  |                      |
| 26 05 33 | 13-1356 | EA  | 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....           | 324.23                 | 26.49                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.30                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.55                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.50                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 29.14                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 15.90                  |                      |
| 26 05 33 | 13-1357 | EA  | 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....                   | 434.47                 | 36.54                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 18.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 25.59                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 29.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 36.55                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 40.21                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 21.93                  |                      |
| 26 05 33 | 13-1358 | EA  | 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....                   | 546.05                 | 50.25                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.13                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.18                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 40.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 50.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 55.28                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 30.15                  |                      |
| 26 05 33 | 13-1359 |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples</b> <small>(26 05 33 13-0848)</small> |                        |                      |
| 26 05 33 | 13-1360 | EA  | 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....                       | 39.61                  | 10.96                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.19                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 7.67                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 8.77                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 10.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 12.06                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 6.58                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 6.58                   |                      |
| 26 05 33 | 13-1361 | EA  | 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....                       | 45.43                  | 13.71                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.85                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.07                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.22                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 8.22                   |                      |
| 26 05 33 | 13-1362 | EA  | 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....                         | 53.74                  | 17.35                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.47                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.10                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.42                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 10.42                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1363 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 63.59                     | 20.10                   |
| For Elevated Installation >10' To 15', Add   | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.10                     |                         |
| For Elevated Installation >40', Add  | 22.11                     |                         |
| For Work In Restricted Working Space, Add  | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.06                     |                         |
| 26 05 33 13-1364 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 69.84                     | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.14                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.70                     |                         |
| 26 05 33 13-1365 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 43.72                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.32                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.07                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 7.13                      |                         |
| 26 05 33 13-1366 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 47.84                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.22                      |                         |
| 26 05 33 13-1367 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 56.18                     | 17.35                   |
| For Elevated Installation >10' To 15', Add   | 3.47                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 13.89                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.36                     |                         |
| For Elevated Installation >40', Add  | 19.10                     |                         |
| For Work In Restricted Working Space, Add  | 10.42                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 10.42                     |                         |
| 26 05 33 13-1368 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 66.18                     | 20.10                   |
| For Elevated Installation >10' To 15', Add   | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.10                     |                         |
| For Elevated Installation >40', Add  | 22.11                     |                         |
| For Work In Restricted Working Space, Add  | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.06                     |                         |
| 26 05 33 13-1369 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 72.62                     | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.14                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.70                     |                         |
| 26 05 33 13-1370 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 79.31                     | 25.58                   |
| For Elevated Installation >10' To 15', Add   | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 12.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.91                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.46                     |                         |
| For Elevated Installation >35' To 40', Add   | 25.58                     |                         |
| For Elevated Installation >40', Add  | 28.14                     |                         |
| For Work In Restricted Working Space, Add  | 15.35                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 15.35                     |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-1371 | EA  | 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 43.88                  | 11.87                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.75                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 9.50                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 11.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 13.06                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 7.13                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 7.13                   |                      |
| 26 05 33 | 13-1372 | EA  | 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 48.01                  | 13.71                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.85                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.07                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.22                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 8.22                   |                      |
| 26 05 33 | 13-1373 | EA  | 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....       | 56.48                  | 17.35                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.47                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.09                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.41                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 10.41                  |                      |
| 26 05 33 | 13-1374 | EA  | 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....   | 66.50                  | 20.10                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.02                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 22.10                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 12.06                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 12.06                  |                      |
| 26 05 33 | 13-1375 | EA  | 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....   | 72.95                  | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.13                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 13.70                  |                      |
| 26 05 33 | 13-1376 | EA  | 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....       | 80.17                  | 25.58                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.12                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 12.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 17.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 20.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 25.58                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 28.13                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 15.35                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 15.35                  |                      |
| 26 05 33 | 13-1377 | EA  | 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 46.17                  | 11.87                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 4.75                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 5.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 8.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 9.50                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 11.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 13.06                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 7.13                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 7.13                   |                      |
| 26 05 33 | 13-1378 | EA  | 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 50.31                  | 13.71                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.85                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 15.07                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.22                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 8.22                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1379 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 58.95                     | 17.35                   |
| For Elevated Installation >10' To 15', Add   | 3.47                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 13.88                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.36                     |                         |
| For Elevated Installation >40', Add  | 19.09                     |                         |
| For Work In Restricted Working Space, Add  | 10.41                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 10.41                     |                         |
| 26 05 33 13-1380 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 67.91                     | 20.10                   |
| For Elevated Installation >10' To 15', Add   | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.10                     |                         |
| For Elevated Installation >40', Add  | 22.10                     |                         |
| For Work In Restricted Working Space, Add  | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.06                     |                         |
| 26 05 33 13-1381 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 74.50                     | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.13                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.70                     |                         |
| 26 05 33 13-1382 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 82.88                     | 25.58                   |
| For Elevated Installation >10' To 15', Add   | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 12.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.90                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.46                     |                         |
| For Elevated Installation >35' To 40', Add   | 25.58                     |                         |
| For Elevated Installation >40', Add  | 28.13                     |                         |
| For Work In Restricted Working Space, Add  | 15.35                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 15.35                     |                         |
| 26 05 33 13-1383 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 112.47                    | 31.06                   |
| For Elevated Installation >10' To 15', Add   | 6.21                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.42                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.53                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.84                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.06                     |                         |
| For Elevated Installation >40', Add  | 34.16                     |                         |
| For Work In Restricted Working Space, Add  | 18.63                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 18.63                     |                         |
| 26 05 33 13-1384 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 147.49                    | 42.94                   |
| For Elevated Installation >10' To 15', Add   | 8.59                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.17                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.47                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.05                     |                         |
| For Elevated Installation >30' To 35', Add   | 34.35                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.94                     |                         |
| For Elevated Installation >40', Add  | 47.23                     |                         |
| For Work In Restricted Working Space, Add  | 25.76                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 25.76                     |                         |
| 26 05 33 13-1385 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....       | 46.34                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.31                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.06                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 7.13                      |                         |
| 26 05 33 13-1386 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....       | 50.62                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.22                      |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-1387 | EA  | 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 59.28                  | 17.35                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.47                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 13.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 19.09                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.41                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 10.41                  |                      |
| 26 05 33 | 13-1388 | EA  | 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 69.31                  | 20.10                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.02                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 14.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 22.10                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 12.06                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 12.06                  |                      |
| 26 05 33 | 13-1389 | EA  | 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 76.04                  | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.13                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 13.70                  |                      |
| 26 05 33 | 13-1390 | EA  | 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 85.58                  | 25.58                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.12                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 12.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 17.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 20.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 25.58                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 28.13                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 15.35                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 15.35                  |                      |
| 26 05 33 | 13-1391 | EA  | 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 114.86                 | 31.06                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.21                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.53                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 31.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 34.16                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 18.63                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 18.63                  |                      |
| 26 05 33 | 13-1392 | EA  | 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 152.63                 | 42.94                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 34.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 42.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 47.23                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 25.76                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 25.76                  |                      |
| 26 05 33 | 13-1393 | EA  | 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 180.10                 | 48.42                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 33.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 38.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 48.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 53.26                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 29.05                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 29.05                  |                      |
| 26 05 33 | 13-1394 | EA  | 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 215.15                 | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 50.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 63.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 69.33                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 37.82                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 37.82                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1395 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 46.66                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.31                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.06                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 7.13                      |                         |
| 26 05 33 13-1396 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 50.96                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.22                      |                         |
| 26 05 33 13-1397 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 59.65                     | 17.35                   |
| For Elevated Installation >10' To 15', Add   | 3.47                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 13.88                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.36                     |                         |
| For Elevated Installation >40', Add  | 19.09                     |                         |
| For Work In Restricted Working Space, Add  | 10.41                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 10.41                     |                         |
| 26 05 33 13-1398 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 69.96                     | 20.10                   |
| For Elevated Installation >10' To 15', Add   | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.10                     |                         |
| For Elevated Installation >40', Add  | 22.10                     |                         |
| For Work In Restricted Working Space, Add  | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.06                     |                         |
| 26 05 33 13-1399 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 76.72                     | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.13                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.70                     |                         |
| 26 05 33 13-1400 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 87.06                     | 25.58                   |
| For Elevated Installation >10' To 15', Add   | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 12.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.90                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.46                     |                         |
| For Elevated Installation >35' To 40', Add   | 25.58                     |                         |
| For Elevated Installation >40', Add  | 28.13                     |                         |
| For Work In Restricted Working Space, Add  | 15.35                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 15.35                     |                         |
| 26 05 33 13-1401 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 124.38                    | 31.06                   |
| For Elevated Installation >10' To 15', Add   | 6.21                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.42                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.53                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.84                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.06                     |                         |
| For Elevated Installation >40', Add  | 34.16                     |                         |
| For Work In Restricted Working Space, Add  | 18.63                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 18.63                     |                         |
| 26 05 33 13-1402 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 160.34                    | 42.94                   |
| For Elevated Installation >10' To 15', Add   | 8.59                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.17                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.47                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.05                     |                         |
| For Elevated Installation >30' To 35', Add   | 34.35                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.94                     |                         |
| For Elevated Installation >40', Add  | 47.23                     |                         |
| For Work In Restricted Working Space, Add  | 25.76                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 25.76                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1403 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 181.74                    | 48.42                   |
| For Elevated Installation >10' To 15', Add   | 9.68                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.37                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.21                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.89                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 48.42                     |                         |
| For Elevated Installation >40', Add  | 53.26                     |                         |
| For Work In Restricted Working Space, Add  | 29.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 29.05                     |                         |
| 26 05 33 13-1404 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 219.55                    | 63.04                   |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.03                     |                         |
| For Elevated Installation >40', Add  | 69.33                     |                         |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 37.82                     |                         |
| 26 05 33 13-1405 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 318.99                    | 86.79                   |
| For Elevated Installation >10' To 15', Add   | 17.36                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.71                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.39                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.75                     |                         |
| For Elevated Installation >30' To 35', Add   | 69.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 86.79                     |                         |
| For Elevated Installation >40', Add  | 95.46                     |                         |
| For Work In Restricted Working Space, Add  | 52.07                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 52.07                     |                         |
| 26 05 33 13-1406 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 47.26                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.31                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.06                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 7.13                      |                         |
| 26 05 33 13-1407 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 51.56                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.22                      |                         |
| 26 05 33 13-1408 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 60.30                     | 17.35                   |
| For Elevated Installation >10' To 15', Add   | 3.47                      |                         |
| For Elevated Installation >15' To 20', Add   | 6.94                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.15                     |                         |
| For Elevated Installation >30' To 35', Add   | 13.88                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.36                     |                         |
| For Elevated Installation >40', Add  | 19.09                     |                         |
| For Work In Restricted Working Space, Add  | 10.41                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 10.41                     |                         |
| 26 05 33 13-1409 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 71.17                     | 20.10                   |
| For Elevated Installation >10' To 15', Add   | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add   | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add   | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add   | 20.10                     |                         |
| For Elevated Installation >40', Add  | 22.10                     |                         |
| For Work In Restricted Working Space, Add  | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 12.06                     |                         |
| 26 05 33 13-1410 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 78.17                     | 22.84                   |
| For Elevated Installation >10' To 15', Add   | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add   | 9.13                      |                         |
| For Elevated Installation >20' To 25', Add   | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.98                     |                         |
| For Elevated Installation >30' To 35', Add   | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add   | 22.84                     |                         |
| For Elevated Installation >40', Add  | 25.12                     |                         |
| For Work In Restricted Working Space, Add  | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 13.70                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1411 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 88.53                     | 25.58                   |
| For Elevated Installation >10' To 15', Add   | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.23                     |                         |
| For Elevated Installation >20' To 25', Add   | 12.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 17.90                     |                         |
| For Elevated Installation >30' To 35', Add   | 20.46                     |                         |
| For Elevated Installation >35' To 40', Add   | 25.58                     |                         |
| For Elevated Installation >40', Add  | 28.13                     |                         |
| For Work In Restricted Working Space, Add  | 15.35                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 15.35                     |                         |
| 26 05 33 13-1412 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 134.04                    | 31.06                   |
| For Elevated Installation >10' To 15', Add   | 6.21                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.42                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.53                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.74                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.84                     |                         |
| For Elevated Installation >35' To 40', Add   | 31.06                     |                         |
| For Elevated Installation >40', Add  | 34.16                     |                         |
| For Work In Restricted Working Space, Add  | 18.63                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 18.63                     |                         |
| 26 05 33 13-1413 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 170.59                    | 42.94                   |
| For Elevated Installation >10' To 15', Add   | 8.59                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.17                     |                         |
| For Elevated Installation >20' To 25', Add   | 21.47                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.05                     |                         |
| For Elevated Installation >30' To 35', Add   | 34.35                     |                         |
| For Elevated Installation >35' To 40', Add   | 42.94                     |                         |
| For Elevated Installation >40', Add  | 47.23                     |                         |
| For Work In Restricted Working Space, Add  | 25.76                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 25.76                     |                         |
| 26 05 33 13-1414 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 190.97                    | 48.42                   |
| For Elevated Installation >10' To 15', Add   | 9.68                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.37                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.21                     |                         |
| For Elevated Installation >25' To 30', Add   | 33.89                     |                         |
| For Elevated Installation >30' To 35', Add   | 38.73                     |                         |
| For Elevated Installation >35' To 40', Add   | 48.42                     |                         |
| For Elevated Installation >40', Add  | 53.26                     |                         |
| For Work In Restricted Working Space, Add  | 29.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 29.05                     |                         |
| 26 05 33 13-1415 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 235.11                    | 63.04                   |
| For Elevated Installation >10' To 15', Add   | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add   | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add   | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add   | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add   | 50.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 63.03                     |                         |
| For Elevated Installation >40', Add  | 69.33                     |                         |
| For Work In Restricted Working Space, Add  | 37.82                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 37.82                     |                         |
| 26 05 33 13-1416 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 342.26                    | 86.79                   |
| For Elevated Installation >10' To 15', Add   | 17.36                     |                         |
| For Elevated Installation >15' To 20', Add   | 34.71                     |                         |
| For Elevated Installation >20' To 25', Add   | 43.39                     |                         |
| For Elevated Installation >25' To 30', Add   | 60.75                     |                         |
| For Elevated Installation >30' To 35', Add   | 69.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 86.79                     |                         |
| For Elevated Installation >40', Add  | 95.46                     |                         |
| For Work In Restricted Working Space, Add  | 52.07                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 52.07                     |                         |
| 26 05 33 13-1417 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 48.20                     | 11.87                   |
| For Elevated Installation >10' To 15', Add   | 2.38                      |                         |
| For Elevated Installation >15' To 20', Add   | 4.75                      |                         |
| For Elevated Installation >20' To 25', Add   | 5.94                      |                         |
| For Elevated Installation >25' To 30', Add   | 8.31                      |                         |
| For Elevated Installation >30' To 35', Add   | 9.50                      |                         |
| For Elevated Installation >35' To 40', Add   | 11.88                     |                         |
| For Elevated Installation >40', Add  | 13.06                     |                         |
| For Work In Restricted Working Space, Add  | 7.13                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 7.13                      |                         |
| 26 05 33 13-1418 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....   | 52.48                     | 13.71                   |
| For Elevated Installation >10' To 15', Add   | 2.74                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.48                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.85                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.59                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.96                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.70                     |                         |
| For Elevated Installation >40', Add  | 15.07                     |                         |
| For Work In Restricted Working Space, Add  | 8.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 8.22                      |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1419 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 61.75                     | 17.35                   |
| For Elevated Installation >10' To 15', Add  | 3.47                      |                         |
| For Elevated Installation >15' To 20', Add  | 6.94                      |                         |
| For Elevated Installation >20' To 25', Add  | 8.68                      |                         |
| For Elevated Installation >25' To 30', Add  | 12.15                     |                         |
| For Elevated Installation >30' To 35', Add  | 13.88                     |                         |
| For Elevated Installation >35' To 40', Add  | 17.36                     |                         |
| For Elevated Installation >40', Add   | 19.09                     |                         |
| For Work In Restricted Working Space, Add   | 10.41                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 10.41                     |                         |
| 26 05 33 13-1420 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 71.48                     | 20.10                   |
| For Elevated Installation >10' To 15', Add  | 4.02                      |                         |
| For Elevated Installation >15' To 20', Add  | 8.04                      |                         |
| For Elevated Installation >20' To 25', Add  | 10.05                     |                         |
| For Elevated Installation >25' To 30', Add  | 14.07                     |                         |
| For Elevated Installation >30' To 35', Add  | 16.08                     |                         |
| For Elevated Installation >35' To 40', Add  | 20.10                     |                         |
| For Elevated Installation >40', Add   | 22.10                     |                         |
| For Work In Restricted Working Space, Add   | 12.06                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 12.06                     |                         |
| 26 05 33 13-1421 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 81.12                     | 22.84                   |
| For Elevated Installation >10' To 15', Add  | 4.57                      |                         |
| For Elevated Installation >15' To 20', Add  | 9.13                      |                         |
| For Elevated Installation >20' To 25', Add  | 11.42                     |                         |
| For Elevated Installation >25' To 30', Add  | 15.98                     |                         |
| For Elevated Installation >30' To 35', Add  | 18.27                     |                         |
| For Elevated Installation >35' To 40', Add  | 22.84                     |                         |
| For Elevated Installation >40', Add   | 25.12                     |                         |
| For Work In Restricted Working Space, Add   | 13.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 13.70                     |                         |
| 26 05 33 13-1422 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 95.73                     | 25.58                   |
| For Elevated Installation >10' To 15', Add  | 5.12                      |                         |
| For Elevated Installation >15' To 20', Add  | 10.23                     |                         |
| For Elevated Installation >20' To 25', Add  | 12.79                     |                         |
| For Elevated Installation >25' To 30', Add  | 17.90                     |                         |
| For Elevated Installation >30' To 35', Add  | 20.46                     |                         |
| For Elevated Installation >35' To 40', Add  | 25.58                     |                         |
| For Elevated Installation >40', Add   | 28.13                     |                         |
| For Work In Restricted Working Space, Add   | 15.35                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 15.35                     |                         |
| 26 05 33 13-1423 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 145.93                    | 31.06                   |
| For Elevated Installation >10' To 15', Add  | 6.21                      |                         |
| For Elevated Installation >15' To 20', Add  | 12.42                     |                         |
| For Elevated Installation >20' To 25', Add  | 15.53                     |                         |
| For Elevated Installation >25' To 30', Add  | 21.74                     |                         |
| For Elevated Installation >30' To 35', Add  | 24.84                     |                         |
| For Elevated Installation >35' To 40', Add  | 31.06                     |                         |
| For Elevated Installation >40', Add   | 34.16                     |                         |
| For Work In Restricted Working Space, Add   | 18.63                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 18.63                     |                         |
| 26 05 33 13-1424 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 184.60                    | 42.94                   |
| For Elevated Installation >10' To 15', Add  | 8.59                      |                         |
| For Elevated Installation >15' To 20', Add  | 17.17                     |                         |
| For Elevated Installation >20' To 25', Add  | 21.47                     |                         |
| For Elevated Installation >25' To 30', Add  | 30.05                     |                         |
| For Elevated Installation >30' To 35', Add  | 34.35                     |                         |
| For Elevated Installation >35' To 40', Add  | 42.94                     |                         |
| For Elevated Installation >40', Add   | 47.23                     |                         |
| For Work In Restricted Working Space, Add   | 25.76                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 25.76                     |                         |
| 26 05 33 13-1425 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 214.07                    | 48.42                   |
| For Elevated Installation >10' To 15', Add  | 9.68                      |                         |
| For Elevated Installation >15' To 20', Add  | 19.37                     |                         |
| For Elevated Installation >20' To 25', Add  | 24.21                     |                         |
| For Elevated Installation >25' To 30', Add  | 33.89                     |                         |
| For Elevated Installation >30' To 35', Add  | 38.73                     |                         |
| For Elevated Installation >35' To 40', Add  | 48.42                     |                         |
| For Elevated Installation >40', Add   | 53.26                     |                         |
| For Work In Restricted Working Space, Add   | 29.05                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 29.05                     |                         |
| 26 05 33 13-1426 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 258.48                    | 63.04                   |
| For Elevated Installation >10' To 15', Add  | 12.61                     |                         |
| For Elevated Installation >15' To 20', Add  | 25.21                     |                         |
| For Elevated Installation >20' To 25', Add  | 31.52                     |                         |
| For Elevated Installation >25' To 30', Add  | 44.12                     |                         |
| For Elevated Installation >30' To 35', Add  | 50.42                     |                         |
| For Elevated Installation >35' To 40', Add  | 63.03                     |                         |
| For Elevated Installation >40', Add   | 69.33                     |                         |
| For Work In Restricted Working Space, Add   | 37.82                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 37.82                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1427 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....      | 358.20                    | 86.79                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.71                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 43.39                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.75                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 69.43                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 86.79                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 95.46                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 52.07                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 52.07                     |                         |
| 26 05 33 13-1428 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....   | 49.19                     | 11.87                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.38                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 4.75                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 5.94                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 8.31                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 9.50                      |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 11.88                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 13.06                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 7.13                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 7.13                      |                         |
| 26 05 33 13-1429 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....   | 53.45                     | 13.71                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.74                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 5.48                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 6.85                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 9.59                      |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 10.96                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 13.70                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 15.07                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 8.22                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 8.22                      |                         |
| 26 05 33 13-1430 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 63.17                     | 17.35                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.47                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 6.94                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 8.68                      |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 12.15                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 13.88                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 17.36                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 19.09                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 10.41                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 10.41                     |                         |
| 26 05 33 13-1431 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 75.83                     | 20.10                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.02                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.04                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.05                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 14.07                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 16.08                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 20.10                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 22.10                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 12.06                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 12.06                     |                         |
| 26 05 33 13-1432 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 88.13                     | 22.84                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.57                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 9.13                      |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 11.42                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.98                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 18.27                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 22.84                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 25.12                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 13.70                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 13.70                     |                         |
| 26 05 33 13-1433 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....     | 106.32                    | 25.58                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.12                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 10.23                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 12.79                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 17.90                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 20.46                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 25.58                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 28.13                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 15.35                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 15.35                     |                         |
| 26 05 33 13-1434 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple ..... | 158.50                    | 31.06                   |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.21                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.42                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 15.53                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 21.74                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 24.84                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 31.06                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>  | 34.16                     |                         |
| <i>For Work In Restricted Working Space, Add</i>   | 18.63                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 18.63                     |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-1435 | EA  | 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple     | 202.56                 | 42.94                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 34.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 42.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 47.23                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 25.76                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 25.76                  |                      |
| 26 05 33 | 13-1436 | EA  | 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple | 238.33                 | 48.42                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 19.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 24.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 33.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 38.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 48.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 53.26                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 29.05                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 29.05                  |                      |
| 26 05 33 | 13-1437 | EA  | 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple     | 299.36                 | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 50.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 63.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 69.33                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.82                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 37.82                  |                      |
| 26 05 33 | 13-1438 | EA  | 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple     | 390.03                 | 86.79                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 34.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 43.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 60.75                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 69.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 86.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 95.46                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 52.07                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 52.07                  |                      |
| 26 05 33 | 13-1439 | EA  | 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple   | 50.21                  | 11.87                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.38                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 4.75                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 5.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 8.31                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 9.50                   |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 11.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 13.06                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 7.13                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 7.13                   |                      |
| 26 05 33 | 13-1440 | EA  | 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple   | 54.58                  | 13.71                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.74                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 5.48                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 6.85                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 9.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 10.96                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 13.70                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 15.07                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 8.22                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 8.22                   |                      |
| 26 05 33 | 13-1441 | EA  | 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple     | 66.80                  | 17.35                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.47                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 6.94                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 8.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 12.15                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 13.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 19.09                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 10.41                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 10.41                  |                      |
| 26 05 33 | 13-1442 | EA  | 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple | 82.98                  | 20.10                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.02                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.04                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 14.07                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 16.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 20.10                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 22.10                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 12.06                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 12.06                  |                      |



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-1443 | EA  | 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 96.61                  | 22.84                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.57                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 9.13                   |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 11.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 18.27                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 22.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 25.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 13.70                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 13.70                  |                      |
| 26 05 33 | 13-1444 | EA  | 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 114.82                 | 25.58                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.12                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 12.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 17.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 20.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 25.58                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 28.13                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 15.35                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 15.35                  |                      |
| 26 05 33 | 13-1445 | EA  | 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 175.27                 | 31.06                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.21                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.53                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.84                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 31.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 34.16                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 18.63                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 18.63                  |                      |
| 26 05 33 | 13-1446 | EA  | 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 229.47                 | 42.94                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.59                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.17                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 21.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 34.35                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 42.94                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 47.23                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 25.76                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 25.76                  |                      |
| 26 05 33 | 13-1447 | EA  | 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple..... | 253.22                 | 48.42                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.68                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 33.89                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 38.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 48.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 53.26                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 29.05                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 29.05                  |                      |
| 26 05 33 | 13-1448 | EA  | 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 311.90                 | 63.04                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 12.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 25.21                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 31.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 44.12                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 50.42                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 63.03                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 69.33                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 37.82                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 37.82                  |                      |
| 26 05 33 | 13-1449 | EA  | 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....     | 394.57                 | 86.79                |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 17.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 34.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 43.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 60.75                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 69.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 86.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 95.46                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 52.07                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 52.07                  |                      |
| 26 05 33 | 13-1450 |     | <b>Aluminum Rigid Conduit (ARC)</b> (26 05 33 13-0059)  |                        |                      |
|          |         |     | Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.     |                        |                      |
| 26 05 33 | 13-1451 |     | <b>Aluminum Rigid Conduit (ARC) With Threaded Coupling</b> (26 05 33 13-1450)                               |                        |                      |
|          |         |     | Note: Includes field bend conduit up to 1".   |                        |                      |
| 26 05 33 | 13-1452 | LF  | 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....   | 7.95                   | 2.82                 |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                               | 1.05                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.11                   |                      |
| 26 05 33 | 13-1453 | LF  | 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....   | 8.97                   | 3.10                 |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                               | 1.16                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.32                   |                      |
| 26 05 33 | 13-1454 | LF  | 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....   | 10.20                  | 3.38                 |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                               | 1.27                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.53                   |                      |

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-1455 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... | 11.44                     | 3.66                    |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 1.37                      |                         |
| For Work In Restricted Working Space, Add   | 2.74                      |                         |
| 26 05 33 13-1456 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... | 12.70                     | 3.94                    |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 1.48                      |                         |
| For Work In Restricted Working Space, Add   | 2.95                      |                         |
| 26 05 33 13-1457 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....     | 15.06                     | 4.50                    |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 1.69                      |                         |
| For Work In Restricted Working Space, Add   | 3.37                      |                         |
| 26 05 33 13-1458 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... | 20.10                     | 5.62                    |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 2.11                      |                         |
| For Work In Restricted Working Space, Add   | 4.22                      |                         |
| 26 05 33 13-1459 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....     | 24.80                     | 6.74                    |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 2.53                      |                         |
| For Work In Restricted Working Space, Add   | 5.06                      |                         |
| 26 05 33 13-1460 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... | 30.60                     | 8.44                    |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 3.16                      |                         |
| For Work In Restricted Working Space, Add   | 6.32                      |                         |
| 26 05 33 13-1461 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....     | 37.98                     | 10.68                   |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 4.01                      |                         |
| For Work In Restricted Working Space, Add   | 8.01                      |                         |
| 26 05 33 13-1462 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....     | 49.87                     | 13.50                   |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 5.06                      |                         |
| For Work In Restricted Working Space, Add   | 10.12                     |                         |
| 26 05 33 13-1463 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....     | 63.41                     | 16.86                   |
| For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add              | 6.32                      |                         |
| For Work In Restricted Working Space, Add   | 12.65                     |                         |

26 05 33 13-1464 Aluminum 90 Degree Elbows (26 05 33 13-1450)

|   |        |        |
|---|--------|--------|
| 26 05 33 13-1465 EA 1" Aluminum 90 Degree Elbow .....     | 46.37  | 14.62  |
| For Work In Restricted Working Space, Add                 | 10.96  |        |
| 26 05 33 13-1466 EA 1-1/4" Aluminum 90 Degree Elbow ..... | 57.08  | 16.58  |
| For Work In Restricted Working Space, Add                 | 12.44  |        |
| 26 05 33 13-1467 EA 1-1/2" Aluminum 90 Degree Elbow ..... | 68.58  | 19.12  |
| For Work In Restricted Working Space, Add                 | 14.34  |        |
| 26 05 33 13-1468 EA 2" Aluminum 90 Degree Elbow .....     | 85.42  | 21.92  |
| For Work In Restricted Working Space, Add                 | 16.45  |        |
| 26 05 33 13-1469 EA 2-1/2" Aluminum 90 Degree Elbow ..... | 118.34 | 26.70  |
| For Work In Restricted Working Space, Add                 | 20.03  |        |
| 26 05 33 13-1470 EA 3" Aluminum 90 Degree Elbow .....     | 166.10 | 34.58  |
| For Work In Restricted Working Space, Add                 | 25.93  |        |
| 26 05 33 13-1471 EA 3-1/2" Aluminum 90 Degree Elbow ..... | 221.23 | 38.79  |
| For Work In Restricted Working Space, Add                 | 29.09  |        |
| 26 05 33 13-1472 EA 4" Aluminum 90 Degree Elbow .....     | 268.89 | 48.63  |
| For Work In Restricted Working Space, Add                 | 36.47  |        |
| 26 05 33 13-1473 EA 5" Aluminum 90 Degree Elbow .....     | 633.78 | 79.27  |
| For Work In Restricted Working Space, Add                 | 59.45  |        |
| 26 05 33 13-1474 EA 6" Aluminum 90 Degree Elbow .....     | 900.66 | 119.19 |
| For Work In Restricted Working Space, Add                 | 89.39  |        |

26 05 33 13-1475 Aluminum Bushing Set With Locknut (26 05 33 13-1450)

|  |       |       |
|--|-------|-------|
| 26 05 33 13-1476 EA 1/2" Aluminum Bushing Set With Locknut.....                        | 14.81 | 5.62  |
| For Work In Restricted Working Space, Add  | 4.22  |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 4.22  |       |
| 26 05 33 13-1477 EA 3/4" Aluminum Bushing Set With Locknut.....                        | 21.29 | 7.30  |
| For Work In Restricted Working Space, Add  | 5.48  |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.48  |       |
| 26 05 33 13-1478 EA 1" Aluminum Bushing Set With Locknut.....                          | 22.97 | 9.00  |
| For Work In Restricted Working Space, Add  | 6.75  |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.75  |       |
| 26 05 33 13-1479 EA 1-1/4" Aluminum Bushing Set With Locknut .....                     | 25.84 | 10.12 |
| For Work In Restricted Working Space, Add  | 7.59  |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 7.59  |       |
| 26 05 33 13-1480 EA 1-1/2" Aluminum Bushing Set With Locknut .....                     | 31.61 | 12.36 |
| For Work In Restricted Working Space, Add  | 9.28  |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 9.28  |       |
| 26 05 33 13-1481 EA 2" Aluminum Bushing Set With Locknut.....                          | 38.38 | 14.90 |
| For Work In Restricted Working Space, Add  | 11.17 |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.17 |       |
| 26 05 33 13-1482 EA 2-1/2" Aluminum Bushing Set With Locknut .....                     | 46.60 | 17.71 |
| For Work In Restricted Working Space, Add  | 13.28 |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 13.28 |       |
| 26 05 33 13-1483 EA 3" Aluminum Bushing Set With Locknut.....                          | 54.05 | 20.24 |
| For Work In Restricted Working Space, Add  | 15.18 |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 15.18 |       |
| 26 05 33 13-1484 EA 3-1/2" Aluminum Bushing Set With Locknut .....                     | 58.49 | 21.92 |
| For Work In Restricted Working Space, Add  | 16.45 |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 16.45 |       |
| 26 05 33 13-1485 EA 4" Aluminum Bushing Set With Locknut.....                          | 63.44 | 23.62 |
| For Work In Restricted Working Space, Add  | 17.71 |       |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 17.71 |       |



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|--------------------------|----------------------|
| 26 05 33 13-1486        | EA  |     | 5" Aluminum Bushing Set With Locknut.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 84.23<br>23.61<br>23.61  | 31.48                |
| 26 05 33 13-1487        | EA  |     | 6" Aluminum Bushing Set With Locknut.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 125.65<br>35.42<br>35.42 | 47.22                |
| <b>26 05 33 13-1488</b> |     |     | <b>Schedule 40 Polyvinyl Chloride (PVC) Conduit</b> <small>(26 05 33 13-0059)</small><br>Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.       |                          |                      |
| <b>26 05 33 13-1489</b> |     |     | <b>Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings</b> <small>(26 05 33 13-1488)</small><br>Note: Includes field bend conduit up to 1".  |                          |                      |
| 26 05 33 13-1490        | LF  |     | 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 6.01<br>0.50<br>0.85     | 2.01                 |
| 26 05 33 13-1491        | LF  |     | 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 6.83<br>0.60<br>1.01     | 2.21                 |
| 26 05 33 13-1492        | LF  |     | 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 8.41<br>0.81<br>1.33     | 2.57                 |
| 26 05 33 13-1493        | LF  |     | 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 9.98<br>1.02<br>1.65     | 2.94                 |
| 26 05 33 13-1494        | LF  |     | 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 11.73<br>1.21<br>1.96    | 3.43                 |
| 26 05 33 13-1495        | LF  |     | 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 13.95<br>1.53<br>2.43    | 3.93                 |
| 26 05 33 13-1496        | LF  |     | 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 18.26<br>2.23<br>3.48    | 4.67                 |
| 26 05 33 13-1497        | LF  |     | 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 21.36<br>2.64<br>4.10    | 5.40                 |
| 26 05 33 13-1498        | LF  |     | 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 26.01<br>3.31<br>5.12    | 6.38                 |
| 26 05 33 13-1499        | LF  |     | 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 30.68<br>3.74<br>5.83    | 7.85                 |
| 26 05 33 13-1500        | LF  |     | 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 43.71<br>5.41<br>8.40    | 11.05                |
| 26 05 33 13-1501        | LF  |     | 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End .....<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 58.07<br>7.16<br>11.12   | 14.72                |
| <b>26 05 33 13-1502</b> |     |     | <b>Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows</b> <small>(26 05 33 13-1488)</small><br>See CSI section 26 05 33 13-2329 for conduit field bending.                                  |                          |                      |
| 26 05 33 13-1503        | EA  |     | 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 25.92<br>1.57<br>2.94    | 9.81                 |
| 26 05 33 13-1504        | EA  |     | 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 28.65<br>1.76<br>3.28    | 10.80                |
| 26 05 33 13-1505        | EA  |     | 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 33.27<br>2.18<br>3.98    | 12.27                |
| 26 05 33 13-1506        | EA  |     | 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 43.01<br>2.90<br>5.24    | 15.70                |
| 26 05 33 13-1507        | EA  |     | 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 54.15<br>3.72<br>6.69    | 19.63                |
| 26 05 33 13-1508        | EA  |     | 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 68.38<br>4.83<br>8.60    | 24.54                |
| 26 05 33 13-1509        | EA  |     | 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 86.03<br>6.79<br>11.71   | 29.44                |
| 26 05 33 13-1510        | EA  |     | 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow .....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 106.14<br>9.36<br>15.68  | 34.35                |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|---|------------------------------|-------------------------|
| 26 05 33 13-1511 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 132.43<br><br>12.25<br>20.28 | 41.71                   |
| 26 05 33 13-1512 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 158.91<br><br>15.19<br>24.95 | 49.07                   |
| 26 05 33 13-1513 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 217.26<br><br>23.65<br>37.70 | 61.34                   |
| 26 05 33 13-1514 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 265.50<br><br>29.57<br>46.92 | 73.61                   |
| <b>26 05 33 13-1515 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows <small>(26 05 33 13-1488)</small></b>   |                              |                         |
| 26 05 33 13-1516 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 25.92<br><br>1.57<br>2.94    | 9.81                    |
| 26 05 33 13-1517 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>   | 28.55<br><br>1.74<br>3.25    | 10.80                   |
| 26 05 33 13-1518 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 33.13<br><br>2.15<br>3.93    | 12.27                   |
| 26 05 33 13-1519 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 42.61<br><br>2.80<br>5.10    | 15.70                   |
| 26 05 33 13-1520 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 53.26<br><br>3.50<br>6.37    | 19.63                   |
| 26 05 33 13-1521 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 67.90<br><br>4.71<br>8.43    | 24.54                   |
| 26 05 33 13-1522 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 85.13<br><br>6.56<br>11.39   | 29.44                   |
| 26 05 33 13-1523 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 105.00<br><br>9.07<br>15.28  | 34.35                   |
| 26 05 33 13-1524 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i> | 129.24<br><br>11.45<br>19.16 | 41.71                   |
| 26 05 33 13-1525 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 156.17<br><br>14.50<br>23.99 | 49.07                   |
| 26 05 33 13-1526 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 213.71<br><br>22.76<br>36.46 | 61.34                   |
| 26 05 33 13-1527 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....<br>See CSI section 26 05 33 13-2329 for conduit field bending.<br><i>For Schedule 60, Add</i><br><i>For Schedule 80, Add</i>     | 254.92<br><br>26.92<br>43.21 | 73.61                   |
| <b>26 05 33 13-1528 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow <small>(26 05 33 13-1488)</small></b>   |                              |                         |
| 26 05 33 13-1529 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 98.01<br>16.95               | 34.72                   |
| 26 05 33 13-1530 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 114.58<br>20.01              | 40.20                   |
| 26 05 33 13-1531 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 129.82<br>22.60              | 45.68                   |
| 26 05 33 13-1532 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 152.02<br>28.08              | 50.25                   |
| 26 05 33 13-1533 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 198.21<br>37.86              | 63.04                   |
| 26 05 33 13-1534 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 260.88<br>48.37              | 85.87                   |
| 26 05 33 13-1535 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow.....<br><i>For Schedule 80, Add</i>  | 310.52<br>60.26              | 96.84                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1536 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 377.47<br>69.07           | 126.07                  |
| <b>26 05 33 13-1537 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow</b> <sup>(26 05)</sup><br><small>33 13-1488)</small> |                           |                         |
| 26 05 33 13-1538 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 103.26<br>18.78           | 34.72                   |
| 26 05 33 13-1539 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 127.21<br>24.43           | 40.20                   |
| 26 05 33 13-1540 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 147.90<br>28.93           | 45.68                   |
| 26 05 33 13-1541 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 160.97<br>31.22           | 50.25                   |
| 26 05 33 13-1542 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 225.79<br>47.51           | 63.04                   |
| 26 05 33 13-1543 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 300.99<br>62.41           | 85.87                   |
| 26 05 33 13-1544 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 335.21<br>68.90           | 96.84                   |
| 26 05 33 13-1545 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 407.36<br>79.54           | 126.07                  |
| <b>26 05 33 13-1546 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow</b> <sup>(26 05)</sup><br><small>33 13-1488)</small> |                           |                         |
| 26 05 33 13-1547 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 117.41<br>23.74           | 34.72                   |
| 26 05 33 13-1548 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 133.14<br>26.50           | 40.20                   |
| 26 05 33 13-1549 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 151.38<br>30.14           | 45.68                   |
| 26 05 33 13-1550 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 177.85<br>37.13           | 50.25                   |
| 26 05 33 13-1551 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 236.06<br>51.10           | 63.04                   |
| 26 05 33 13-1552 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 309.61<br>65.43           | 85.87                   |
| 26 05 33 13-1553 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 368.08<br>80.41           | 96.84                   |
| 26 05 33 13-1554 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 436.88<br>89.87           | 126.07                  |
| <b>26 05 33 13-1555 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow</b> <sup>(26 05)</sup><br><small>33 13-1488)</small> |                           |                         |
| 26 05 33 13-1556 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 120.30<br>24.75           | 34.72                   |
| 26 05 33 13-1557 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 150.68<br>32.64           | 40.20                   |
| 26 05 33 13-1558 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 165.30<br>35.02           | 45.68                   |
| 26 05 33 13-1559 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 178.47<br>37.34           | 50.25                   |
| 26 05 33 13-1560 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 258.69<br>59.02           | 63.04                   |
| 26 05 33 13-1561 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 360.32<br>83.17           | 85.87                   |
| 26 05 33 13-1562 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 414.26<br>96.57           | 96.84                   |
| 26 05 33 13-1563 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 491.57<br>109.01          | 126.07                  |
| 26 05 33 13-1564 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 788.75<br>173.29          | 205.20                  |
| 26 05 33 13-1565 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 1,159.27<br>251.35        | 309.21                  |
| <b>26 05 33 13-1566 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow</b> <sup>(26 05)</sup><br><small>33 13-1488)</small> |                           |                         |
| 26 05 33 13-1567 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 131.39<br>28.63           | 34.72                   |
| 26 05 33 13-1568 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 153.66<br>33.68           | 40.20                   |
| 26 05 33 13-1569 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 174.23<br>38.14           | 45.68                   |
| 26 05 33 13-1570 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 209.31<br>48.14           | 50.25                   |
| 26 05 33 13-1571 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 280.78<br>66.76           | 63.04                   |
| 26 05 33 13-1572 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                    | 396.60<br>95.87           | 85.87                   |
| 26 05 33 13-1573 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>                | 448.95<br>108.71          | 96.84                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI  | UOM     | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------|---|---------------------------|-------------------------|
| 26 05 33  | 13-1574 | EA 4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>  | 551.77<br>130.08          | 126.07                  |
| 26 05 33  | 13-1575 | EA 5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>  | 823.97<br>185.61          | 205.20                  |
| 26 05 33  | 13-1576 | EA 6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow .....<br><i>For Schedule 80, Add</i>  | 1,187.78<br>261.33        | 309.21                  |
| <b>26 05 33 13-1577 Polyvinyl Chloride (PVC) Conduit Female Adapters <small>(26 05 33 13-1488)</small></b>    |         |   |                           |                         |
| 26 05 33  | 13-1578 | EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 17.82<br>5.15             | 6.87                    |
| 26 05 33  | 13-1579 | EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 20.50<br>5.89             | 7.85                    |
| 26 05 33  | 13-1580 | EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 23.27<br>6.62             | 8.83                    |
| 26 05 33  | 13-1581 | EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 26.18<br>7.36             | 9.81                    |
| 26 05 33  | 13-1582 | EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 32.46<br>9.20             | 12.27                   |
| 26 05 33  | 13-1583 | EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 39.36<br>11.04            | 14.72                   |
| 26 05 33  | 13-1584 | EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 53.76<br>14.72            | 19.63                   |
| 26 05 33  | 13-1585 | EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 67.72<br>18.40            | 24.54                   |
| 26 05 33  | 13-1586 | EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 87.85<br>23.93            | 31.90                   |
| 26 05 33  | 13-1587 | EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 106.61<br>29.44           | 39.26                   |
| 26 05 33  | 13-1588 | EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 139.82<br>36.81           | 49.07                   |
| 26 05 33  | 13-1589 | EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 174.03<br>46.01           | 61.34                   |
| <b>26 05 33 13-1590 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug <small>(26 05 33 13-1488)</small></b> |         |   |                           |                         |
| 26 05 33  | 13-1591 | EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>       | 19.89<br>4.42             | 5.89                    |
| 26 05 33  | 13-1592 | EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>       | 22.73<br>5.15             | 6.87                    |
| 26 05 33  | 13-1593 | EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 25.58<br>5.89             | 7.85                    |
| 26 05 33  | 13-1594 | EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 30.25<br>6.62             | 8.83                    |
| 26 05 33  | 13-1595 | EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 33.72<br>7.36             | 9.81                    |
| 26 05 33  | 13-1596 | EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 40.30<br>8.47             | 11.29                   |
| 26 05 33  | 13-1597 | EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 45.15<br>9.57             | 12.76                   |
| 26 05 33  | 13-1598 | EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 51.22<br>11.04            | 14.72                   |
| 26 05 33  | 13-1599 | EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 60.59<br>12.88            | 17.18                   |
| 26 05 33  | 13-1600 | EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 67.11<br>14.72            | 19.63                   |
| 26 05 33  | 13-1601 | EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 83.89<br>16.56            | 22.08                   |
| 26 05 33  | 13-1602 | EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 94.26<br>18.40            | 24.54                   |
| <b>26 05 33 13-1603 Polyvinyl Chloride (PVC) Conduit Terminal Adapters <small>(26 05 33 13-1488)</small></b>  |         |   |                           |                         |
| 26 05 33  | 13-1604 | EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 19.41<br>5.66             |                         |
| 26 05 33  | 13-1605 | EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 23.49<br>6.79             |                         |
| 26 05 33  | 13-1606 | EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 26.17<br>7.54             |                         |
| 26 05 33  | 13-1607 | EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 29.37<br>8.39             |                         |
| 26 05 33  | 13-1608 | EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 32.24<br>9.20             | 12.27                   |
| 26 05 33  | 13-1609 | EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 39.06<br>11.04            | 14.72                   |
| 26 05 33  | 13-1610 | EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 53.16<br>14.72            | 19.63                   |
| 26 05 33  | 13-1611 | EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 66.88<br>18.40            | 24.54                   |
| 26 05 33  | 13-1612 | EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 86.77<br>23.93            | 31.90                   |
| 26 05 33  | 13-1613 | EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 105.51<br>29.44           | 39.26                   |



| MINOR  | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|---------|-----|---|------------------------|----------------------|
| 26 05 33   | 13-1614 | EA  | 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 137.63<br>36.81        | 49.07                |
| 26 05 33   | 13-1615 | EA  | 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 171.40<br>46.01        | 61.34                |
| <b>26 05 33 13-1616 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover <small>(26 05 33 13-1488)</small></b> |         |     |   |                        |                      |
| 26 05 33   | 13-1617 | EA  | 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 54.99<br>14.72         | 19.63                |
| 26 05 33   | 13-1618 | EA  | 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 63.58<br>16.56         | 22.08                |
| 26 05 33   | 13-1619 | EA  | 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 70.61<br>18.40         | 24.54                |
| 26 05 33   | 13-1620 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 86.85<br>22.08         | 29.44                |
| 26 05 33   | 13-1621 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 107.51<br>27.60        | 36.80                |
| 26 05 33   | 13-1622 | EA  | 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 137.90<br>33.12        | 44.16                |
| 26 05 33   | 13-1623 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 225.64<br>36.81        | 49.07                |
| 26 05 33   | 13-1624 | EA  | 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 241.50<br>40.49        | 53.98                |
| 26 05 33   | 13-1625 | EA  | 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 263.47<br>46.01        | 61.34                |
| 26 05 33   | 13-1626 | EA  | 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 295.22<br>53.37        | 71.15                |
| <b>26 05 33 13-1627 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1488)</small></b>             |         |     |   |                        |                      |
| 26 05 33   | 13-1628 | EA  | 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 78.14<br>21.08         | 28.11                |
| 26 05 33   | 13-1629 | EA  | 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 87.18<br>23.19         | 30.92                |
| 26 05 33   | 13-1630 | EA  | 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 94.44<br>25.30         | 33.73                |
| 26 05 33   | 13-1631 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>             | 116.62<br>29.52        | 39.36                |
| 26 05 33   | 13-1632 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>             | 141.01<br>35.84        | 47.79                |
| 26 05 33   | 13-1633 | EA  | 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 172.06<br>42.17        | 56.22                |
| <b>26 05 33 13-1634 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1488)</small></b>                               |         |     |   |                        |                      |
| 26 05 33   | 13-1635 | EA  | 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 111.82                 | 24.54                |
| 26 05 33   | 13-1636 | EA  | 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 125.37                 | 29.44                |
| 26 05 33   | 13-1637 | EA  | 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 139.68                 | 34.35                |
| 26 05 33   | 13-1638 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 153.24                 | 39.26                |
| 26 05 33   | 13-1639 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 166.49                 | 44.16                |
| 26 05 33   | 13-1640 | EA  | 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 182.19                 | 49.07                |
| 26 05 33   | 13-1641 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 221.52                 | 56.43                |
| 26 05 33   | 13-1642 | EA  | 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 263.86                 | 63.79                |
| 26 05 33   | 13-1643 | EA  | 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 308.42                 | 73.61                |
| 26 05 33   | 13-1644 | EA  | 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 366.24                 | 85.88                |
| 26 05 33   | 13-1645 | EA  | 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 480.27                 | 103.05               |
| 26 05 33   | 13-1646 | EA  | 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....  | 630.31                 | 132.50               |
| <b>26 05 33 13-1647 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1488)</small></b>                                      |         |     |   |                        |                      |
| 26 05 33   | 13-1648 | EA  | 1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 14.92<br>3.68          | 4.91                 |
| 26 05 33   | 13-1649 | EA  | 3/4" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 17.68<br>4.42          | 5.89                 |
| 26 05 33   | 13-1650 | EA  | 1" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.38<br>5.15          | 6.87                 |
| 26 05 33   | 13-1651 | EA  | 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                       | 24.23<br>5.89          | 7.85                 |
| 26 05 33   | 13-1652 | EA  | 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                       | 28.13<br>6.62          | 8.83                 |
| 26 05 33   | 13-1653 | EA  | 2" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 33.00<br>7.36          | 9.81                 |
| 26 05 33   | 13-1654 | EA  | 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                       | 46.13<br>8.47          | 11.29                |
| 26 05 33   | 13-1655 | EA  | 3" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 50.66<br>9.57          | 12.76                |
| 26 05 33   | 13-1656 | EA  | 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                       | 64.00<br>10.67         | 14.23                |
| 26 05 33   | 13-1657 | EA  | 4" Polyvinyl Chloride (PVC) Conduit End Cap.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 76.72<br>11.41         | 15.21                |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST         | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|-----------------------------------|-------------------------|
| 26 05 33 13-1658        | EA  | 5" Polyvinyl Chloride (PVC) Conduit End Cap<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 89.05<br>12.88                    | 17.18                   |
| 26 05 33 13-1659        | EA  | 6" Polyvinyl Chloride (PVC) Conduit End Cap<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 111.90<br>14.72                   | 19.63                   |
| <b>26 05 33 13-1660</b> |     | <b>Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies<br/>With Cover (Smart Pathways) <small>(26 05 33 13-1468)</small></b>   |                                   |                         |
| 26 05 33 13-1661        | EA  | 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                  | 147.87<br>33.12                   | 44.16                   |
| 26 05 33 13-1662        | EA  | 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways<br>KBLB121)<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 149.26<br>22.08                   | 29.44                   |
| 26 05 33 13-1663        | EA  | 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart<br>Pathways KBLB251)<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 354.61<br>36.81                   | 49.07                   |
| 26 05 33 13-1664        | EA  | 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways<br>KBLB401)<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 682.53<br>53.37                   | 71.15                   |
| <b>26 05 33 13-1665</b> |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0059)</small></b><br>Note: Exposed installation. Excludes supporting strap, hanger and fastening.                                     |                                   |                         |
| <b>26 05 33 13-1666</b> |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1665)</small></b>   |                                   |                         |
| 26 05 33 13-1667        | LF  | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 10.91                             | 2.01                    |
| 26 05 33 13-1668        | LF  | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 12.15                             | 2.21                    |
| 26 05 33 13-1669        | LF  | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 13.46                             | 2.55                    |
| 26 05 33 13-1670        | LF  | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 14.76                             | 2.94                    |
| 26 05 33 13-1671        | LF  | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 16.59                             | 3.43                    |
| 26 05 33 13-1672        | LF  | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 18.03                             | 3.93                    |
| 26 05 33 13-1673        | LF  | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 21.50                             | 4.67                    |
| 26 05 33 13-1674        | LF  | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 25.31                             | 5.40                    |
| 26 05 33 13-1675        | LF  | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 29.24                             | 6.38                    |
| 26 05 33 13-1676        | LF  | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 34.39                             | 7.85                    |
| 26 05 33 13-1677        | LF  | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 46.04                             | 11.05                   |
| 26 05 33 13-1678        | LF  | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit   | 59.86                             | 14.72                   |
| <b>26 05 33 13-1679</b> |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90<br/>Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1665)</small></b>   |                                   |                         |
| 26 05 33 13-1680        | EA  | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                      | 133.49<br>9.40<br>13.35<br>17.30  | 9.81                    |
| 26 05 33 13-1681        | EA  | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                      | 148.97<br>10.50<br>14.90<br>19.30 | 10.80                   |
| 26 05 33 13-1682        | EA  | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                        | 153.89<br>10.78<br>15.39<br>20.00 | 12.27                   |
| 26 05 33 13-1683        | EA  | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius<br>Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                 | 163.68<br>11.29<br>16.37<br>21.44 | 15.70                   |
| 26 05 33 13-1684        | EA  | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius<br>Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                 | 174.73<br>11.88<br>17.47<br>23.07 | 19.63                   |
| 26 05 33 13-1685        | EA  | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                        | 204.33<br>13.79<br>20.43<br>27.07 | 24.54                   |
| 26 05 33 13-1686        | EA  | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius<br>Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                 | 244.75<br>16.52<br>24.48<br>32.43 | 29.44                   |
| 26 05 33 13-1687        | EA  | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                        | 291.25<br>19.70<br>29.13<br>38.55 | 34.35                   |
| 26 05 33 13-1688        | EA  | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius<br>Elbows<br><i>For 24" Radius, Add</i><br><i>For 36" Radius, Add</i><br><i>For 48" Radius, Add</i>                 | 335.32<br>22.54<br>33.53<br>44.52 | 41.71                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1689 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....                                | 379.40                    | 49.07                   |
| <i>For 24" Radius, Add</i>   | 25.39                     |                         |
| <i>For 36" Radius, Add</i>   | 37.94                     |                         |
| <i>For 48" Radius, Add</i>   | 50.49                     |                         |
| 26 05 33 13-1690 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....                                | 474.24                    | 61.34                   |
| <i>For 24" Radius, Add</i>   | 31.73                     |                         |
| <i>For 36" Radius, Add</i>   | 47.42                     |                         |
| <i>For 48" Radius, Add</i>   | 63.11                     |                         |
| 26 05 33 13-1691 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....                                | 585.14                    | 73.61                   |
| <i>For 24" Radius, Add</i>   | 39.28                     |                         |
| <i>For 36" Radius, Add</i>   | 58.51                     |                         |
| <i>For 48" Radius, Add</i>   | 77.74                     |                         |
| <br>   |                           |                         |
| 26 05 33 13-1692 <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1665)</small> |                           |                         |
| 26 05 33 13-1693 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                              | 113.88                    | 9.81                    |
| <i>For 24" Radius, Add</i>   | 7.93                      |                         |
| <i>For 36" Radius, Add</i>   | 11.39                     |                         |
| <i>For 48" Radius, Add</i>   | 14.85                     |                         |
| 26 05 33 13-1694 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                              | 127.01                    | 10.80                   |
| <i>For 24" Radius, Add</i>   | 8.85                      |                         |
| <i>For 36" Radius, Add</i>   | 12.70                     |                         |
| <i>For 48" Radius, Add</i>   | 16.55                     |                         |
| 26 05 33 13-1695 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                                | 131.71                    | 12.27                   |
| <i>For 24" Radius, Add</i>   | 9.11                      |                         |
| <i>For 36" Radius, Add</i>   | 13.17                     |                         |
| <i>For 48" Radius, Add</i>   | 17.23                     |                         |
| 26 05 33 13-1696 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                            | 141.29                    | 15.70                   |
| <i>For 24" Radius, Add</i>   | 9.62                      |                         |
| <i>For 36" Radius, Add</i>   | 14.13                     |                         |
| <i>For 48" Radius, Add</i>   | 18.64                     |                         |
| 26 05 33 13-1697 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                            | 152.11                    | 19.63                   |
| <i>For 24" Radius, Add</i>   | 10.18                     |                         |
| <i>For 36" Radius, Add</i>   | 15.21                     |                         |
| <i>For 48" Radius, Add</i>   | 20.24                     |                         |
| 26 05 33 13-1698 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                                | 178.59                    | 24.54                   |
| <i>For 24" Radius, Add</i>   | 11.86                     |                         |
| <i>For 36" Radius, Add</i>   | 17.86                     |                         |
| <i>For 48" Radius, Add</i>   | 23.86                     |                         |
| 26 05 33 13-1699 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                            | 213.95                    | 29.44                   |
| <i>For 24" Radius, Add</i>   | 14.21                     |                         |
| <i>For 36" Radius, Add</i>   | 21.40                     |                         |
| <i>For 48" Radius, Add</i>   | 28.58                     |                         |
| 26 05 33 13-1700 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                                | 254.28                    | 34.35                   |
| <i>For 24" Radius, Add</i>   | 16.92                     |                         |
| <i>For 36" Radius, Add</i>   | 25.43                     |                         |
| <i>For 48" Radius, Add</i>   | 33.93                     |                         |
| 26 05 33 13-1701 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                            | 293.73                    | 41.71                   |
| <i>For 24" Radius, Add</i>   | 19.42                     |                         |
| <i>For 36" Radius, Add</i>   | 29.37                     |                         |
| <i>For 48" Radius, Add</i>   | 39.32                     |                         |
| 26 05 33 13-1702 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                                | 333.19                    | 49.07                   |
| <i>For 24" Radius, Add</i>   | 21.92                     |                         |
| <i>For 36" Radius, Add</i>   | 33.32                     |                         |
| <i>For 48" Radius, Add</i>   | 44.72                     |                         |
| 26 05 33 13-1703 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                                | 416.48                    | 61.34                   |
| <i>For 24" Radius, Add</i>   | 27.40                     |                         |
| <i>For 36" Radius, Add</i>   | 41.65                     |                         |
| <i>For 48" Radius, Add</i>   | 55.89                     |                         |
| 26 05 33 13-1704 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....                                | 512.94                    | 73.61                   |
| <i>For 24" Radius, Add</i>   | 33.87                     |                         |
| <i>For 36" Radius, Add</i>   | 51.29                     |                         |
| <i>For 48" Radius, Add</i>   | 68.72                     |                         |
| <br>   |                           |                         |
| 26 05 33 13-1705 <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1665)</small> |                           |                         |
| 26 05 33 13-1706 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                              | 105.97                    | 8.83                    |
| <i>For 24" Radius, Add</i>   | 7.40                      |                         |
| <i>For 36" Radius, Add</i>   | 10.60                     |                         |
| <i>For 48" Radius, Add</i>   | 13.80                     |                         |
| 26 05 33 13-1707 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                              | 118.22                    | 9.71                    |
| <i>For 24" Radius, Add</i>   | 8.26                      |                         |
| <i>For 36" Radius, Add</i>   | 11.82                     |                         |
| <i>For 48" Radius, Add</i>   | 15.39                     |                         |
| 26 05 33 13-1708 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                | 122.48                    | 11.05                   |
| <i>For 24" Radius, Add</i>   | 8.50                      |                         |
| <i>For 36" Radius, Add</i>   | 12.25                     |                         |
| <i>For 48" Radius, Add</i>   | 16.00                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 05 33 13-1709 | EA  | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                   | 131.13                    | 14.13                   |
|                  |     | <i>For 24" Radius, Add</i>  | 8.95                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 13.11                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 17.27                     |                         |
| 26 05 33 13-1710 | EA  | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                   | 140.92                    | 17.67                   |
|                  |     | <i>For 24" Radius, Add</i>  | 9.47                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 14.09                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 18.72                     |                         |
| 26 05 33 13-1711 | EA  | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                       | 165.31                    | 22.08                   |
|                  |     | <i>For 24" Radius, Add</i>  | 11.02                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 16.53                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 22.04                     |                         |
| 26 05 33 13-1712 | EA  | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                   | 198.03                    | 26.50                   |
|                  |     | <i>For 24" Radius, Add</i>  | 13.20                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 19.80                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 26.41                     |                         |
| 26 05 33 13-1713 | EA  | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                       | 235.42                    | 30.92                   |
|                  |     | <i>For 24" Radius, Add</i>  | 15.72                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 23.54                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 31.36                     |                         |
| 26 05 33 13-1714 | EA  | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                   | 271.76                    | 37.54                   |
|                  |     | <i>For 24" Radius, Add</i>  | 18.04                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 27.18                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 36.32                     |                         |
| 26 05 33 13-1715 | EA  | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                       | 308.08                    | 44.16                   |
|                  |     | <i>For 24" Radius, Add</i>  | 20.35                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 30.81                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 41.27                     |                         |
| 26 05 33 13-1716 | EA  | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                       | 385.11                    | 55.21                   |
|                  |     | <i>For 24" Radius, Add</i>  | 25.43                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 38.51                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 51.59                     |                         |
| 26 05 33 13-1717 | EA  | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....                                       | 474.48                    | 66.25                   |
|                  |     | <i>For 24" Radius, Add</i>  | 31.45                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 47.45                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 63.45                     |                         |
| 26 05 33 13-1718 |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-1665)</small> |                           |                         |
| 26 05 33 13-1719 | EA  | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                                 | 100.53                    | 8.83                    |
|                  |     | <i>For 24" Radius, Add</i>  | 6.99                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 10.05                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 13.12                     |                         |
| 26 05 33 13-1720 | EA  | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                                 | 112.13                    | 9.71                    |
|                  |     | <i>For 24" Radius, Add</i>  | 7.80                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 11.21                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 14.62                     |                         |
| 26 05 33 13-1721 | EA  | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                                   | 116.32                    | 11.05                   |
|                  |     | <i>For 24" Radius, Add</i>  | 8.03                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 11.63                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 15.23                     |                         |
| 26 05 33 13-1722 | EA  | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                               | 124.91                    | 14.13                   |
|                  |     | <i>For 24" Radius, Add</i>  | 8.49                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 12.49                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 16.50                     |                         |
| 26 05 33 13-1723 | EA  | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                               | 134.63                    | 17.67                   |
|                  |     | <i>For 24" Radius, Add</i>  | 8.99                      |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 13.46                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 17.93                     |                         |
| 26 05 33 13-1724 | EA  | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                                   | 158.16                    | 22.08                   |
|                  |     | <i>For 24" Radius, Add</i>  | 10.48                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 15.82                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 21.15                     |                         |
| 26 05 33 13-1725 | EA  | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                               | 189.47                    | 26.50                   |
|                  |     | <i>For 24" Radius, Add</i>  | 12.55                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 18.95                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 25.34                     |                         |
| 26 05 33 13-1726 | EA  | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....                                   | 225.16                    | 30.92                   |
|                  |     | <i>For 24" Radius, Add</i>  | 14.95                     |                         |
|                  |     | <i>For 36" Radius, Add</i>  | 22.52                     |                         |
|                  |     | <i>For 48" Radius, Add</i>  | 30.08                     |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-1727        | EA    |     |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius                          |                        |                      |
|                         |       |     |     | Elbows .....   | 260.21                 | 37.54                |
|                         |       |     |     | <i>For 24" Radius, Add</i>   | 17.17                  |                      |
|                         |       |     |     | <i>For 36" Radius, Add</i>   | 26.02                  |                      |
|                         |       |     |     | <i>For 48" Radius, Add</i>   | 34.87                  |                      |
| 26 05 33 13-1728        | EA    |     |     | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius                              |                        |                      |
|                         |       |     |     | Elbows .....   | 295.24                 | 44.16                |
|                         |       |     |     | <i>For 24" Radius, Add</i>   | 19.38                  |                      |
|                         |       |     |     | <i>For 36" Radius, Add</i>   | 29.52                  |                      |
|                         |       |     |     | <i>For 48" Radius, Add</i>   | 39.67                  |                      |
| 26 05 33 13-1729        | EA    |     |     | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius                              |                        |                      |
|                         |       |     |     | Elbows .....   | 369.06                 | 55.21                |
|                         |       |     |     | <i>For 24" Radius, Add</i>   | 24.23                  |                      |
|                         |       |     |     | <i>For 36" Radius, Add</i>   | 36.91                  |                      |
|                         |       |     |     | <i>For 48" Radius, Add</i>   | 49.58                  |                      |
| 26 05 33 13-1730        | EA    |     |     | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius                              |                        |                      |
|                         |       |     |     | Elbows .....   | 454.42                 | 66.25                |
|                         |       |     |     | <i>For 24" Radius, Add</i>   | 29.94                  |                      |
|                         |       |     |     | <i>For 36" Radius, Add</i>   | 45.44                  |                      |
|                         |       |     |     | <i>For 48" Radius, Add</i>   | 60.94                  |                      |
| <b>26 05 33 13-1731</b> |       |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings</b> <small>(26 05 33 13-1665)</small>        |                        |                      |
| 26 05 33 13-1732        | EA    |     |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....                                       | 62.29                  | 6.87                 |
| 26 05 33 13-1733        | EA    |     |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....                                       | 69.90                  | 7.85                 |
| 26 05 33 13-1734        | EA    |     |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....   | 72.87                  | 8.83                 |
| 26 05 33 13-1735        | EA    |     |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....                                     | 75.75                  | 9.81                 |
| 26 05 33 13-1736        | EA    |     |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....                                     | 82.91                  | 12.27                |
| 26 05 33 13-1737        | EA    |     |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....   | 99.01                  | 14.72                |
| 26 05 33 13-1738        | EA    |     |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....                                     | 123.94                 | 19.63                |
| 26 05 33 13-1739        | EA    |     |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....   | 151.19                 | 24.54                |
| 26 05 33 13-1740        | EA    |     |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....                                     | 180.83                 | 31.90                |
| 26 05 33 13-1741        | EA    |     |     | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....   | 210.45                 | 39.26                |
| 26 05 33 13-1742        | EA    |     |     | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....   | 263.07                 | 49.07                |
| 26 05 33 13-1743        | EA    |     |     | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling .....   | 328.77                 | 61.34                |
| <b>26 05 33 13-1744</b> |       |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings</b> <small>(26 05 33 13-1665)</small> |                        |                      |
| 26 05 33 13-1745        | EA    |     |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                | 42.63                  | 6.87                 |
| 26 05 33 13-1746        | EA    |     |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                | 47.91                  | 7.85                 |
| 26 05 33 13-1747        | EA    |     |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                  | 50.66                  | 8.83                 |
| 26 05 33 13-1748        | EA    |     |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                              | 53.42                  | 9.81                 |
| 26 05 33 13-1749        | EA    |     |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                              | 59.85                  | 12.27                |
| 26 05 33 13-1750        | EA    |     |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                  | 66.15                  | 14.72                |
| 26 05 33 13-1751        | EA    |     |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                              | 84.28                  | 19.63                |
| 26 05 33 13-1752        | EA    |     |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                  | 103.61                 | 24.54                |
| 26 05 33 13-1753        | EA    |     |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                              | 127.31                 | 31.90                |
| 26 05 33 13-1754        | EA    |     |     | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                  | 150.98                 | 39.26                |
| 26 05 33 13-1755        | EA    |     |     | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                  | 188.79                 | 49.07                |
| 26 05 33 13-1756        | EA    |     |     | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling .....                                  | 235.92                 | 61.34                |
| <b>26 05 33 13-1757</b> |       |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings</b> <small>(26 05 33 13-1665)</small>             |                        |                      |
| 26 05 33 13-1758        | EA    |     |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 48.82                  | 5.65                 |
| 26 05 33 13-1759        | EA    |     |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 54.80                  | 7.85                 |
| 26 05 33 13-1760        | EA    |     |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 57.63                  | 8.83                 |
| 26 05 33 13-1761        | EA    |     |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 60.31                  | 9.81                 |
| 26 05 33 13-1762        | EA    |     |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 67.25                  | 12.27                |
| 26 05 33 13-1763        | EA    |     |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 80.36                  | 14.72                |
| 26 05 33 13-1764        | EA    |     |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 101.31                 | 19.63                |
| 26 05 33 13-1765        | EA    |     |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 124.02                 | 24.54                |
| 26 05 33 13-1766        | EA    |     |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 150.26                 | 31.90                |
| 26 05 33 13-1767        | EA    |     |     | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 176.48                 | 39.26                |
| 26 05 33 13-1768        | EA    |     |     | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 220.58                 | 49.07                |
| 26 05 33 13-1769        | EA    |     |     | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling .....  | 275.76                 | 61.34                |
| <b>26 05 33 13-1770</b> |       |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints</b> <small>(26 05 33 13-1665)</small>             |                        |                      |
| 26 05 33 13-1771        | EA    |     |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 96.21                  | 24.54                |
| 26 05 33 13-1772        | EA    |     |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 112.29                 | 29.44                |
| 26 05 33 13-1773        | EA    |     |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 124.99                 | 34.35                |
| 26 05 33 13-1774        | EA    |     |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 137.50                 | 39.26                |
| 26 05 33 13-1775        | EA    |     |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 150.67                 | 44.16                |
| 26 05 33 13-1776        | EA    |     |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 170.61                 | 49.07                |
| 26 05 33 13-1777        | EA    |     |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 198.60                 | 56.43                |
| 26 05 33 13-1778        | EA    |     |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 228.50                 | 63.79                |
| 26 05 33 13-1779        | EA    |     |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 261.66                 | 73.61                |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1780 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 300.95                    | 85.88                   |
| 26 05 33 13-1781 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 353.19                    | 98.14                   |
| 26 05 33 13-1782 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint .....  | 410.82                    | 110.41                  |
| <b>26 05 33 13-1783 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints</b> <small>(26 05 33 13-1665)</small>                   |                           |                         |
| 26 05 33 13-1784 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 110.37                    | 24.54                   |
| 26 05 33 13-1785 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 128.16                    | 29.44                   |
| 26 05 33 13-1786 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 140.95                    | 34.35                   |
| 26 05 33 13-1787 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 153.63                    | 39.26                   |
| 26 05 33 13-1788 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 166.93                    | 44.16                   |
| 26 05 33 13-1789 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 189.18                    | 49.07                   |
| 26 05 33 13-1790 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 220.88                    | 56.43                   |
| 26 05 33 13-1791 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 255.24                    | 63.79                   |
| 26 05 33 13-1792 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 291.76                    | 73.61                   |
| 26 05 33 13-1793 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 334.40                    | 85.88                   |
| 26 05 33 13-1794 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 395.12                    | 98.14                   |
| 26 05 33 13-1795 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint .....   | 463.23                    | 110.41                  |
| <b>26 05 33 13-1796 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters</b> <small>(26 05 33 13-1665)</small>                                  |                           |                         |
| 26 05 33 13-1797 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 133.76                    | 6.87                    |
| 26 05 33 13-1798 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 149.14                    | 7.85                    |
| 26 05 33 13-1799 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 155.57                    | 8.83                    |
| 26 05 33 13-1800 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 162.18                    | 9.81                    |
| 26 05 33 13-1801 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 170.45                    | 12.27                   |
| 26 05 33 13-1802 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 189.88                    | 14.72                   |
| 26 05 33 13-1803 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 232.79                    | 19.63                   |
| 26 05 33 13-1804 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 281.68                    | 24.54                   |
| 26 05 33 13-1805 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 327.65                    | 31.90                   |
| 26 05 33 13-1806 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 373.59                    | 39.26                   |
| 26 05 33 13-1807 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 467.11                    | 49.07                   |
| 26 05 33 13-1808 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter .....  | 581.20                    | 61.34                   |
| <b>26 05 33 13-1809 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints</b> <small>(26 05 33 13-1665)</small>        |                           |                         |
| 26 05 33 13-1810 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                    | 134.99                    | 24.54                   |
| 26 05 33 13-1811 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                    | 155.46                    | 29.44                   |
| 26 05 33 13-1812 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                      | 186.99                    | 34.35                   |
| 26 05 33 13-1813 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                  | 234.46                    | 39.26                   |
| 26 05 33 13-1814 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                  | 297.29                    | 44.16                   |
| 26 05 33 13-1815 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                      | 399.65                    | 49.07                   |
| 26 05 33 13-1816 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                  | 576.91                    | 56.43                   |
| 26 05 33 13-1817 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                      | 699.90                    | 63.79                   |
| 26 05 33 13-1818 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                  | 848.65                    | 73.61                   |
| 26 05 33 13-1819 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                      | 1,003.52                  | 85.88                   |
| 26 05 33 13-1820 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                      | 1,182.37                  | 98.14                   |
| 26 05 33 13-1821 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint .....                                      | 1,866.77                  | 110.41                  |
| <b>26 05 33 13-1822 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover</b> <small>(26 05 33 13-1665)</small> |                           |                         |
| 26 05 33 13-1823 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                            | 114.27                    | 19.63                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 14.72                     |                         |
| 26 05 33 13-1824 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                            | 132.96                    | 22.08                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 16.56                     |                         |
| 26 05 33 13-1825 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                              | 179.88                    | 24.54                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 18.40                     |                         |
| 26 05 33 13-1826 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                          | 220.04                    | 29.44                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 22.08                     |                         |
| 26 05 33 13-1827 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                          | 280.28                    | 36.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 27.60                     |                         |
| 26 05 33 13-1828 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                              | 389.33                    | 44.16                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 33.12                     |                         |
| 26 05 33 13-1829 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                          | 651.80                    | 51.53                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 38.65                     |                         |
| 26 05 33 13-1830 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover .....                              | 844.54                    | 58.89                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 44.17                     |                         |
| 26 05 33 13-1831 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover .....                          | 1,017.24                  | 68.70                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....  | 51.53                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1832 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....   | 1,189.96                  | 78.51                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>58.89</i>              |                         |
| 26 05 33 13-1833 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....   | 1,406.25                  | 88.33                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>66.25</i>              |                         |
| 26 05 33 13-1834 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....   | 1,596.40                  | 98.14                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>73.61</i>              |                         |
| <b>26 05 33 13-1835 Explosion Proof Conduit Fittings</b> <small>(26 05 33 13-0059)</small>   |                           |                         |
| <i>Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.</i>   |                           |                         |
| <b>26 05 33 13-1836 Explosion Proof Malleable Iron Conduit Unions</b> <small>(26 05 33 13-1835)</small>  |                           |                         |
| 26 05 33 13-1837 EA 1/2" Explosion Proof Malleable Iron Conduit Union .....  | 52.27                     | 11.71                   |
| 26 05 33 13-1838 EA 3/4" Explosion Proof Malleable Iron Conduit Union .....  | 64.02                     | 12.94                   |
| 26 05 33 13-1839 EA 1" Explosion Proof Malleable Iron Conduit Union .....  | 100.61                    | 17.25                   |
| 26 05 33 13-1840 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union .....  | 132.11                    | 19.10                   |
| 26 05 33 13-1841 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union .....  | 166.06                    | 23.41                   |
| 26 05 33 13-1842 EA 2" Explosion Proof Malleable Iron Conduit Union .....  | 206.29                    | 27.11                   |
| 26 05 33 13-1843 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union .....  | 313.23                    | 38.77                   |
| 26 05 33 13-1844 EA 3" Explosion Proof Malleable Iron Conduit Union .....  | 397.22                    | 46.15                   |
| 26 05 33 13-1845 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union .....  | 660.60                    | 55.38                   |
| 26 05 33 13-1846 EA 4" Explosion Proof Malleable Iron Conduit Union .....  | 704.15                    | 70.75                   |
| <b>26 05 33 13-1847 Explosion Proof Malleable Iron Conduit Bodies</b> <small>(26 05 33 13-1835)</small>  |                           |                         |
| 26 05 33 13-1848 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body .....   | 183.83                    | 36.96                   |
| 26 05 33 13-1849 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body .....   | 207.28                    | 41.90                   |
| 26 05 33 13-1850 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body.....  | 241.93                    | 46.21                   |
| 26 05 33 13-1851 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body.....  | 208.67                    | 46.21                   |
| 26 05 33 13-1852 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body.....  | 248.72                    | 55.45                   |
| 26 05 33 13-1853 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body.....  | 293.74                    | 63.45                   |
| <b>26 05 33 13-1854 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical</b> <small>(26 05 33 13-1835)</small>  |                           |                         |
| <i>Note: Includes sealing gasket and lock nut.</i>   |                           |                         |
| 26 05 33 13-1855 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical .....  | 152.10                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>23.10</i>              |                         |
| 26 05 33 13-1856 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 156.26                    | 34.50                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>25.88</i>              |                         |
| 26 05 33 13-1857 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 170.55                    | 37.58                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>28.19</i>              |                         |
| 26 05 33 13-1858 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 218.63                    | 46.21                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>34.65</i>              |                         |
| 26 05 33 13-1859 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 277.81                    | 54.21                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>40.66</i>              |                         |
| 26 05 33 13-1860 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 354.86                    | 61.61                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>46.21</i>              |                         |
| 26 05 33 13-1861 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 506.54                    | 92.29                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>69.22</i>              |                         |
| 26 05 33 13-1862 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 639.96                    | 115.67                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>86.75</i>              |                         |
| 26 05 33 13-1863 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 894.10                    | 127.36                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>95.53</i>              |                         |
| 26 05 33 13-1864 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....   | 1,146.67                  | 138.44                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>103.83</i>             |                         |
| <b>26 05 33 13-1865 Explosion Proof Flexible Conduit Couplings</b> <small>(26 05 33 13-1835)</small>   |                           |                         |
| 26 05 33 13-1866 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling.....  | 389.31                    | 14.17                   |
| 26 05 33 13-1867 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling.....  | 508.70                    | 16.02                   |
| <b>26 05 33 13-1868 Conduit Installed Below Grade</b> <small>(26 05 33 13-0058)</small>  |                           |                         |
| <i>Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.</i> |                           |                         |
| <b>26 05 33 13-1869 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial</b> <small>(26 05 33 13-1869)</small>  |                           |                         |
| <b>26 05 33 13-1870 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial</b> <small>(26 05 33 13-1869)</small>   |                           |                         |
| <i>Note: Includes field bend conduit up to 1".</i>   |                           |                         |
| 26 05 33 13-1871 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....   | 4.97                      |                         |
| <i>For Schedule 60, Add</i>  | <i>0.44</i>               |                         |
| <i>For Schedule 80, Add</i>  | <i>0.74</i>               |                         |
| 26 05 33 13-1872 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....   | 5.61                      |                         |
| <i>For Schedule 60, Add</i>  | <i>0.54</i>               |                         |
| <i>For Schedule 80, Add</i>  | <i>0.89</i>               |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1873 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....     | 6.57                      |                         |
| For Schedule 60, Add   | 0.72                      |                         |
| For Schedule 80, Add   | 1.15                      |                         |
| 26 05 33 13-1874 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial..... | 7.53                      |                         |
| For Schedule 60, Add   | 0.90                      |                         |
| For Schedule 80, Add   | 1.41                      |                         |
| 26 05 33 13-1875 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial..... | 8.36                      |                         |
| For Schedule 60, Add   | 1.05                      |                         |
| For Schedule 80, Add   | 1.62                      |                         |
| 26 05 33 13-1876 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....     | 9.66                      |                         |
| For Schedule 60, Add   | 1.31                      |                         |
| For Schedule 80, Add   | 2.00                      |                         |
| 26 05 33 13-1877 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial..... | 12.43                     |                         |
| For Schedule 60, Add   | 1.94                      |                         |
| For Schedule 80, Add   | 2.89                      |                         |
| 26 05 33 13-1878 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....     | 14.00                     |                         |
| For Schedule 60, Add   | 2.27                      |                         |
| For Schedule 80, Add   | 3.37                      |                         |
| 26 05 33 13-1879 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial..... | 16.50                     |                         |
| For Schedule 60, Add   | 2.84                      |                         |
| For Schedule 80, Add   | 4.17                      |                         |
| 26 05 33 13-1880 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....     | 17.80                     |                         |
| For Schedule 60, Add   | 3.10                      |                         |
| For Schedule 80, Add   | 4.54                      |                         |
| 26 05 33 13-1881 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....     | 23.16                     |                         |
| For Schedule 60, Add   | 4.38                      |                         |
| For Schedule 80, Add   | 6.34                      |                         |
| 26 05 33 13-1882 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....     | 28.63                     |                         |
| For Schedule 60, Add   | 5.69                      |                         |
| For Schedule 80, Add   | 8.18                      |                         |
| <b>26 05 33 13-1883 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial</b>         |                           |                         |
| (26 05 33 13-1869)   |                           |                         |
| See CSI section 26 05 33 13-2329 for conduit field bending.  |                           |                         |
| 26 05 33 13-1884 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....    | 32.05                     |                         |
| For Schedule 60, Add   | 1.88                      |                         |
| For Schedule 80, Add   | 3.55                      |                         |
| 26 05 33 13-1885 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....    | 38.46                     |                         |
| For Schedule 60, Add   | 2.26                      |                         |
| For Schedule 80, Add   | 4.26                      |                         |
| 26 05 33 13-1886 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....      | 45.54                     |                         |
| For Schedule 60, Add   | 2.80                      |                         |
| For Schedule 80, Add   | 5.20                      |                         |
| 26 05 33 13-1887 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....  | 52.82                     |                         |
| For Schedule 60, Add   | 3.39                      |                         |
| For Schedule 80, Add   | 6.22                      |                         |
| 26 05 33 13-1888 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....  | 60.29                     |                         |
| For Schedule 60, Add   | 4.03                      |                         |
| For Schedule 80, Add   | 7.30                      |                         |
| 26 05 33 13-1889 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....      | 68.38                     |                         |
| For Schedule 60, Add   | 4.83                      |                         |
| For Schedule 80, Add   | 8.60                      |                         |
| 26 05 33 13-1890 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....  | 79.90                     |                         |
| For Schedule 60, Add   | 6.48                      |                         |
| For Schedule 80, Add   | 11.10                     |                         |
| 26 05 33 13-1891 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....      | 93.87                     |                         |
| For Schedule 60, Add   | 8.75                      |                         |
| For Schedule 80, Add   | 14.45                     |                         |
| 26 05 33 13-1892 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....  | 114.03                    |                         |
| For Schedule 60, Add   | 11.33                     |                         |
| For Schedule 80, Add   | 18.44                     |                         |
| 26 05 33 13-1893 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....      | 134.36                    |                         |
| For Schedule 60, Add   | 13.96                     |                         |
| For Schedule 80, Add   | 22.49                     |                         |
| 26 05 33 13-1894 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....      | 174.32                    |                         |
| For Schedule 60, Add   | 21.50                     |                         |
| For Schedule 80, Add   | 33.41                     |                         |
| 26 05 33 13-1895 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....      | 204.16                    |                         |
| For Schedule 60, Add   | 26.50                     |                         |
| For Schedule 80, Add   | 40.78                     |                         |
| <b>26 05 33 13-1896 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial</b>         |                           |                         |
| (26 05 33 13-1869)   |                           |                         |
| See CSI section 26 05 33 13-2329 for conduit field bending.  |                           |                         |
| 26 05 33 13-1897 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....    | 32.05                     |                         |
| For Schedule 60, Add   | 1.88                      |                         |
| For Schedule 80, Add   | 3.55                      |                         |
| 26 05 33 13-1898 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....    | 38.36                     |                         |
| For Schedule 60, Add   | 2.23                      |                         |
| For Schedule 80, Add   | 4.23                      |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-1899        | EA    |     |     | 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 45.40<br><i>For Schedule 60, Add</i> 2.76<br><i>For Schedule 80, Add</i> 5.16                       |                        |                      |
| 26 05 33 13-1900        | EA    |     |     | 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 52.42<br><i>For Schedule 60, Add</i> 3.29<br><i>For Schedule 80, Add</i> 6.08                   |                        |                      |
| 26 05 33 13-1901        | EA    |     |     | 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 59.40<br><i>For Schedule 60, Add</i> 3.81<br><i>For Schedule 80, Add</i> 6.99                   |                        |                      |
| 26 05 33 13-1902        | EA    |     |     | 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 67.90<br><i>For Schedule 60, Add</i> 4.71<br><i>For Schedule 80, Add</i> 8.43                       |                        |                      |
| 26 05 33 13-1903        | EA    |     |     | 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 79.00<br><i>For Schedule 60, Add</i> 6.25<br><i>For Schedule 80, Add</i> 10.78                  |                        |                      |
| 26 05 33 13-1904        | EA    |     |     | 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 92.73<br><i>For Schedule 60, Add</i> 8.46<br><i>For Schedule 80, Add</i> 14.05                      |                        |                      |
| 26 05 33 13-1905        | EA    |     |     | 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 110.84<br><i>For Schedule 60, Add</i> 10.53<br><i>For Schedule 80, Add</i> 17.32                |                        |                      |
| 26 05 33 13-1906        | EA    |     |     | 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 131.62<br><i>For Schedule 60, Add</i> 13.28<br><i>For Schedule 80, Add</i> 21.53                    |                        |                      |
| 26 05 33 13-1907        | EA    |     |     | 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 170.77<br><i>For Schedule 60, Add</i> 20.61<br><i>For Schedule 80, Add</i> 32.17                    |                        |                      |
| 26 05 33 13-1908        | EA    |     |     | 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial ..... 193.58<br><i>For Schedule 60, Add</i> 23.86<br><i>For Schedule 80, Add</i> 37.08                    |                        |                      |
| <b>26 05 33 13-1909</b> |       |     |     | <b>Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial</b> <small>(26 05 33 13-1899)</small>   |                        |                      |
| 26 05 33 13-1910        | EA    |     |     | 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 17.82<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 5.15    |                        |                      |
| 26 05 33 13-1911        | EA    |     |     | 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 20.50<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 5.89    |                        |                      |
| 26 05 33 13-1912        | EA    |     |     | 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 23.27<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.62      |                        |                      |
| 26 05 33 13-1913        | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 26.18<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.36  |                        |                      |
| 26 05 33 13-1914        | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 28.78<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.10  |                        |                      |
| 26 05 33 13-1915        | EA    |     |     | 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 32.00<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.83      |                        |                      |
| 26 05 33 13-1916        | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 37.82<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.94  |                        |                      |
| 26 05 33 13-1917        | EA    |     |     | 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 43.18<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.04     |                        |                      |
| 26 05 33 13-1918        | EA    |     |     | 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 51.04<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.88 |                        |                      |
| 26 05 33 13-1919        | EA    |     |     | 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 57.54<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.72     |                        |                      |
| 26 05 33 13-1920        | EA    |     |     | 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 72.34<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 16.56     |                        |                      |
| 26 05 33 13-1921        | EA    |     |     | 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial ..... 82.02<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 18.40     |                        |                      |
| <b>26 05 33 13-1922</b> |       |     |     | <b>Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial</b> <small>(26 05 33 13-1899)</small>  |                        |                      |
| 26 05 33 13-1923        | EA    |     |     | 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 19.89   |                        |                      |
| 26 05 33 13-1924        | EA    |     |     | 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 22.73   |                        |                      |
| 26 05 33 13-1925        | EA    |     |     | 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 25.58   |                        |                      |
| 26 05 33 13-1926        | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 32.71   |                        |                      |
| 26 05 33 13-1927        | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 36.17   |                        |                      |
| 26 05 33 13-1928        | EA    |     |     | 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 40.30   |                        |                      |
| 26 05 33 13-1929        | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 45.15   |                        |                      |
| 26 05 33 13-1930        | EA    |     |     | 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 51.22   |                        |                      |
| 26 05 33 13-1931        | EA    |     |     | 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 60.59   |                        |                      |
| 26 05 33 13-1932        | EA    |     |     | 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 67.11   |                        |                      |
| 26 05 33 13-1933        | EA    |     |     | 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 83.89   |                        |                      |
| 26 05 33 13-1934        | EA    |     |     | 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial ..... 94.26   |                        |                      |
| <b>26 05 33 13-1935</b> |       |     |     | <b>Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial</b> <small>(26 05 33 13-1899)</small>  |                        |                      |
| 26 05 33 13-1936        | EA    |     |     | 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial ..... 17.71  |                        |                      |
| 26 05 33 13-1937        | EA    |     |     | 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial ..... 20.50  |                        |                      |
| 26 05 33 13-1938        | EA    |     |     | 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial ..... 23.13  |                        |                      |
| 26 05 33 13-1939        | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial ..... 25.93  |                        |                      |
| 26 05 33 13-1940        | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial ..... 28.56   |                        |                      |
| 26 05 33 13-1941        | EA    |     |     | 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial ..... 31.70   |                        |                      |
| 26 05 33 13-1942        | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial ..... 37.22   |                        |                      |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-1943 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....   | 42.34                     |                         |
| 26 05 33 13-1944 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....   | 49.96                     |                         |
| 26 05 33 13-1945 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....   | 56.44                     |                         |
| 26 05 33 13-1946 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....   | 70.15                     |                         |
| 26 05 33 13-1947 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....   | 79.39                     |                         |
| <b>26 05 33 13-1948 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) Conduit, Direct Burial</b> <small>(26 05 33 13-1868)</small>   |                           |                         |
| Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).  |                           |                         |
| <b>26 05 33 13-1949 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) Conduit, Direct Burial</b> <small>(26 05 33 13-1948)</small>   |                           |                         |
| Note: Includes field bending for conduit up to 1".   |                           |                         |
| 26 05 33 13-1950 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                  | 13.38                     | 2.96                    |
| For >250 To 500, Deduct  | -0.48                     |                         |
| For >500 To 1,000, Deduct  | -0.81                     |                         |
| For >1,000, Deduct   | -1.14                     |                         |
| 26 05 33 13-1951 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                  | 14.99                     | 3.66                    |
| For >250 To 500, Deduct  | -0.54                     |                         |
| For >500 To 1,000, Deduct  | -0.91                     |                         |
| For >1,000, Deduct   | -1.29                     |                         |
| 26 05 33 13-1952 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                    | 18.32                     | 4.08                    |
| For >250 To 500, Deduct  | -0.67                     |                         |
| For >500 To 1,000, Deduct  | -1.13                     |                         |
| For >1,000, Deduct   | -1.59                     |                         |
| 26 05 33 13-1953 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                | 21.99                     | 5.48                    |
| For >250 To 500, Deduct  | -0.82                     |                         |
| For >500 To 1,000, Deduct  | -1.37                     |                         |
| For >1,000, Deduct   | -1.92                     |                         |
| 26 05 33 13-1954 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                | 25.72                     | 6.18                    |
| For >250 To 500, Deduct  | -0.97                     |                         |
| For >500 To 1,000, Deduct  | -1.61                     |                         |
| For >1,000, Deduct   | -2.26                     |                         |
| 26 05 33 13-1955 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                    | 32.50                     | 6.74                    |
| For >250 To 500, Deduct  | -1.24                     |                         |
| For >500 To 1,000, Deduct  | -2.05                     |                         |
| For >1,000, Deduct   | -2.86                     |                         |
| 26 05 33 13-1956 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                | 46.91                     | 10.12                   |
| For >250 To 500, Deduct  | -1.82                     |                         |
| For >500 To 1,000, Deduct  | -2.99                     |                         |
| For >1,000, Deduct   | -4.16                     |                         |
| 26 05 33 13-1957 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                    | 60.68                     | 12.65                   |
| For >250 To 500, Deduct  | -2.33                     |                         |
| For >500 To 1,000, Deduct  | -3.85                     |                         |
| For >1,000, Deduct   | -5.37                     |                         |
| 26 05 33 13-1958 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                | 74.99                     | 13.36                   |
| For >250 To 500, Deduct  | -2.87                     |                         |
| For >500 To 1,000, Deduct  | -4.75                     |                         |
| For >1,000, Deduct   | -6.62                     |                         |
| 26 05 33 13-1959 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                    | 89.13                     | 14.76                   |
| For >250 To 500, Deduct  | -3.40                     |                         |
| For >500 To 1,000, Deduct  | -5.63                     |                         |
| For >1,000, Deduct   | -7.86                     |                         |
| 26 05 33 13-1960 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                    | 136.65                    | 20.38                   |
| For >250 To 500, Deduct  | -5.50                     |                         |
| For >500 To 1,000, Deduct  | -8.91                     |                         |
| For >1,000, Deduct   | -12.33                    |                         |
| 26 05 33 13-1961 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....                                    | 181.55                    | 26.70                   |
| For >250 To 500, Deduct  | -7.39                     |                         |
| For >500 To 1,000, Deduct  | -11.93                    |                         |
| For >1,000, Deduct   | -16.47                    |                         |
| <b>26 05 33 13-1962 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) Couplings, Direct Burial</b> <small>(26 05 33 13-1948)</small> |                           |                         |
| 26 05 33 13-1963 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                 | 14.41                     | 4.22                    |
| 26 05 33 13-1964 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                 | 17.50                     | 5.62                    |
| 26 05 33 13-1965 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                   | 22.18                     | 7.02                    |
| 26 05 33 13-1966 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                               | 24.93                     | 7.73                    |
| 26 05 33 13-1967 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                               | 29.54                     | 9.14                    |
| 26 05 33 13-1968 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                   | 37.56                     | 10.54                   |
| 26 05 33 13-1969 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                               | 66.09                     | 12.65                   |
| 26 05 33 13-1970 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                   | 84.68                     | 17.57                   |
| 26 05 33 13-1971 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                               | 104.31                    | 20.38                   |
| 26 05 33 13-1972 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                   | 130.52                    | 28.11                   |
| 26 05 33 13-1973 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                   | 319.42                    | 38.65                   |
| 26 05 33 13-1974 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....                                   | 314.04                    | 21.78                   |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 26 05 33 13-1975 |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small>  |                        |                      |
|                  |       |     |     | Note: 90, 45, or 30 degree.   |                        |                      |
| 26 05 33 13-1976 | EA    |     |     | 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                  | 56.07                  | 17.57                |
| 26 05 33 13-1977 | EA    |     |     | 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                  | 65.29                  | 21.78                |
| 26 05 33 13-1978 | EA    |     |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                    | 78.32                  | 26.70                |
| 26 05 33 13-1979 | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                | 92.46                  | 30.92                |
| 26 05 33 13-1980 | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                | 107.89                 | 35.14                |
| 26 05 33 13-1981 | EA    |     |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                    | 129.81                 | 38.65                |
| 26 05 33 13-1982 | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                | 195.91                 | 48.49                |
| 26 05 33 13-1983 | EA    |     |     | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                    | 290.19                 | 66.06                |
| 26 05 33 13-1984 | EA    |     |     | 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                | 356.41                 | 74.49                |
| 26 05 33 13-1985 | EA    |     |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                    | 413.22                 | 96.98                |
| 26 05 33 13-1986 | EA    |     |     | 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                    | 844.62                 | 158.12               |
| 26 05 33 13-1987 | EA    |     |     | 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....                                    | 1,324.38               | 237.54               |
| 26 05 33 13-1988 |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small> |                        |                      |
| 26 05 33 13-1989 | EA    |     |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....                                   | 127.64                 | 26.70                |
| 26 05 33 13-1990 | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....                               | 143.95                 | 30.92                |
| 26 05 33 13-1991 | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....                               | 164.27                 | 35.14                |
| 26 05 33 13-1992 | EA    |     |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....                                   | 194.86                 | 38.65                |
| 26 05 33 13-1993 | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....                               | 269.53                 | 48.49                |
| 26 05 33 13-1994 |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small> |                        |                      |
| 26 05 33 13-1995 | EA    |     |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....                                   | 140.98                 | 26.70                |
| 26 05 33 13-1996 | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....                               | 165.98                 | 30.92                |
| 26 05 33 13-1997 | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....                               | 180.07                 | 35.14                |
| 26 05 33 13-1998 | EA    |     |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....                                   | 229.31                 | 38.65                |
| 26 05 33 13-1999 | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....                               | 302.76                 | 48.49                |
| 26 05 33 13-2000 | EA    |     |     | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....                                   | 388.73                 | 66.06                |
| 26 05 33 13-2001 |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small> |                        |                      |
| 26 05 33 13-2002 | EA    |     |     | 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                                   | 156.93                 | 26.70                |
| 26 05 33 13-2003 | EA    |     |     | 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                               | 177.46                 | 30.92                |
| 26 05 33 13-2004 | EA    |     |     | 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                               | 200.34                 | 35.14                |
| 26 05 33 13-2005 | EA    |     |     | 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                                   | 240.74                 | 38.65                |
| 26 05 33 13-2006 | EA    |     |     | 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                               | 340.94                 | 48.49                |
| 26 05 33 13-2007 | EA    |     |     | 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                                   | 433.55                 | 66.06                |
| 26 05 33 13-2008 | EA    |     |     | 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                               | 544.14                 | 74.49                |
| 26 05 33 13-2009 | EA    |     |     | 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....                                   | 617.74                 | 96.98                |
| 26 05 33 13-2010 |       |     |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small> |                        |                      |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2011 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                                 | 184.47                    | 26.70                   |
| 26 05 33 13-2012 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                             | 204.40                    | 30.92                   |
| 26 05 33 13-2013 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                             | 230.93                    | 35.14                   |
| 26 05 33 13-2014 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                                 | 284.79                    | 38.65                   |
| 26 05 33 13-2015 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                             | 409.27                    | 48.49                   |
| 26 05 33 13-2016 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                                 | 509.50                    | 66.06                   |
| 26 05 33 13-2017 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                             | 590.51                    | 74.49                   |
| 26 05 33 13-2018 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow,<br>Direct Burial.....                                 | 702.87                    | 96.98                   |
| <b>26 05 33 13-2019 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1948)</small></b> |                           |                         |
| 26 05 33 13-2020 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                                 | 205.91                    | 26.70                   |
| 26 05 33 13-2021 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                             | 229.49                    | 30.92                   |
| 26 05 33 13-2022 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                             | 261.04                    | 35.14                   |
| 26 05 33 13-2023 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                                 | 323.14                    | 38.65                   |
| 26 05 33 13-2024 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                             | 446.55                    | 48.49                   |
| 26 05 33 13-2025 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                                 | 570.24                    | 66.06                   |
| 26 05 33 13-2026 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                             | 703.25                    | 74.49                   |
| 26 05 33 13-2027 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                                 | 781.01                    | 96.98                   |
| 26 05 33 13-2028 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow,<br>Direct Burial.....                                 | 1,300.83                  | 158.12                  |
| <b>26 05 33 13-2029 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1948)</small></b> |                           |                         |
| 26 05 33 13-2030 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                                 | 233.94                    | 26.70                   |
| 26 05 33 13-2031 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                             | 259.79                    | 30.92                   |
| 26 05 33 13-2032 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                             | 294.05                    | 35.14                   |
| 26 05 33 13-2033 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                                 | 365.67                    | 38.65                   |
| 26 05 33 13-2034 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                             | 508.68                    | 48.49                   |
| 26 05 33 13-2035 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                                 | 647.64                    | 66.06                   |
| 26 05 33 13-2036 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                             | 759.75                    | 74.49                   |
| 26 05 33 13-2037 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                                 | 881.90                    | 96.98                   |
| 26 05 33 13-2038 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                                 | 1,371.53                  | 158.12                  |
| 26 05 33 13-2039 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow,<br>Direct Burial.....                                 | 1,883.04                  | 237.54                  |
| <b>26 05 33 13-2040 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel<br/>(RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1948)</small></b> |                           |                         |
| 26 05 33 13-2041 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                                 | 272.96                    | 26.70                   |
| 26 05 33 13-2042 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                             | 286.80                    | 30.92                   |
| 26 05 33 13-2043 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                             | 338.23                    | 35.14                   |
| 26 05 33 13-2044 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                                 | 424.87                    | 38.65                   |
| 26 05 33 13-2045 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                             | 592.45                    | 48.49                   |
| 26 05 33 13-2046 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                                 | 751.98                    | 66.06                   |
| 26 05 33 13-2047 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                             | 916.81                    | 74.49                   |
| 26 05 33 13-2048 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow,<br>Direct Burial.....                                 | 1,078.15                  | 96.98                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2049 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....                                | 1,602.15                  | 158.12                  |
| 26 05 33 13-2050 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....                                | 1,988.90                  | 237.54                  |
| <b>26 05 33 13-2051 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1948)</small></b> |                           |                         |
| 26 05 33 13-2052 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                                | 282.36                    | 26.70                   |
| 26 05 33 13-2053 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                            | 332.50                    | 30.92                   |
| 26 05 33 13-2054 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                            | 376.43                    | 35.14                   |
| 26 05 33 13-2055 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                                | 442.68                    | 38.65                   |
| 26 05 33 13-2056 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                            | 613.38                    | 48.49                   |
| 26 05 33 13-2057 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                                | 784.07                    | 66.06                   |
| 26 05 33 13-2058 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                            | 1,002.35                  | 74.49                   |
| 26 05 33 13-2059 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                                | 1,122.66                  | 96.98                   |
| 26 05 33 13-2060 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                                | 1,664.11                  | 158.12                  |
| 26 05 33 13-2061 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....                                | 2,042.69                  | 237.54                  |
| <b>26 05 33 13-2062 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-1948)</small></b>     |                           |                         |
| 26 05 33 13-2063 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                   | 97.51                     | 17.57                   |
| 26 05 33 13-2064 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                   | 107.07                    | 21.78                   |
| 26 05 33 13-2065 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                     | 138.54                    | 26.70                   |
| 26 05 33 13-2066 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                 | 198.85                    | 30.92                   |
| 26 05 33 13-2067 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                 | 235.52                    | 35.14                   |
| 26 05 33 13-2068 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                     | 297.53                    | 38.65                   |
| 26 05 33 13-2069 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                 | 395.13                    | 48.49                   |
| 26 05 33 13-2070 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                     | 508.03                    | 48.49                   |
| 26 05 33 13-2071 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                 | 658.86                    | 74.49                   |
| 26 05 33 13-2072 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                     | 848.65                    | 96.98                   |
| 26 05 33 13-2073 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                     | 1,539.93                  | 158.12                  |
| 26 05 33 13-2074 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....                                     | 1,932.46                  | 237.54                  |
| <b>26 05 33 13-2075 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-1948)</small></b>     |                           |                         |
| 26 05 33 13-2076 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                   | 99.61                     | 17.57                   |
| 26 05 33 13-2077 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                   | 115.09                    | 21.78                   |
| 26 05 33 13-2078 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                     | 142.81                    | 26.70                   |
| 26 05 33 13-2079 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                 | 206.70                    | 30.92                   |
| 26 05 33 13-2080 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                 | 246.42                    | 35.14                   |
| 26 05 33 13-2081 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                     | 321.06                    | 38.65                   |
| 26 05 33 13-2082 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                 | 445.49                    | 48.49                   |
| 26 05 33 13-2083 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                     | 559.23                    | 48.49                   |
| 26 05 33 13-2084 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                 | 751.43                    | 74.49                   |
| 26 05 33 13-2085 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                     | 940.88                    | 96.98                   |
| 26 05 33 13-2086 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....                                     | 1,709.00                  | 158.12                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR           | CSI            | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|-----|--|------------------------|----------------------|
| 26 05 33        | 13-2087        | EA  | 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial                              | 2,205.46               | 237.54               |
| <b>26 05 33</b> | <b>13-2088</b> |     | <b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial</b> <small>(26 05 33 13-1948)</small> |                        |                      |
| 26 05 33        | 13-2089        | EA  | 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                             | 34.55                  | 8.44                 |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5.06                   |                      |
| 26 05 33        | 13-2090        | EA  | 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                             | 39.11                  | 10.54                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6.32                   |                      |
| 26 05 33        | 13-2091        | EA  | 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                               | 45.72                  | 13.36                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 8.01                   |                      |
| 26 05 33        | 13-2092        | EA  | 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 54.31                  | 15.46                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 9.28                   |                      |
| 26 05 33        | 13-2093        | EA  | 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 59.30                  | 17.57                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10.54                  |                      |
| 26 05 33        | 13-2094        | EA  | 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                         | 38.24                  | 9.14                 |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5.48                   |                      |
| 26 05 33        | 13-2095        | EA  | 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                         | 41.52                  | 10.54                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6.32                   |                      |
| 26 05 33        | 13-2096        | EA  | 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 48.16                  | 13.36                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 8.01                   |                      |
| 26 05 33        | 13-2097        | EA  | 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                       | 56.90                  | 15.46                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 9.28                   |                      |
| 26 05 33        | 13-2098        | EA  | 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                       | 62.08                  | 17.57                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10.54                  |                      |
| 26 05 33        | 13-2099        | EA  | 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 67.51                  | 19.68                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 11.81                  |                      |
| 26 05 33        | 13-2100        | EA  | 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                             | 38.40                  | 9.14                 |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5.48                   |                      |
| 26 05 33        | 13-2101        | EA  | 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                             | 41.69                  | 10.54                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6.32                   |                      |
| 26 05 33        | 13-2102        | EA  | 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                               | 48.47                  | 13.36                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 8.01                   |                      |
| 26 05 33        | 13-2103        | EA  | 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 57.23                  | 15.46                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 9.28                   |                      |
| 26 05 33        | 13-2104        | EA  | 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 62.41                  | 17.57                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10.54                  |                      |
| 26 05 33        | 13-2105        | EA  | 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                               | 68.37                  | 19.68                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 11.81                  |                      |
| 26 05 33        | 13-2106        | EA  | 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                         | 40.69                  | 9.14                 |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5.48                   |                      |
| 26 05 33        | 13-2107        | EA  | 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                         | 43.99                  | 10.54                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6.32                   |                      |
| 26 05 33        | 13-2108        | EA  | 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 50.94                  | 13.36                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 8.01                   |                      |
| 26 05 33        | 13-2109        | EA  | 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                       | 58.64                  | 15.46                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 9.28                   |                      |
| 26 05 33        | 13-2110        | EA  | 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                       | 63.96                  | 17.57                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10.54                  |                      |
| 26 05 33        | 13-2111        | EA  | 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 71.08                  | 19.68                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 11.81                  |                      |
| 26 05 33        | 13-2112        | EA  | 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                       | 98.15                  | 23.90                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 14.34                  |                      |
| 26 05 33        | 13-2113        | EA  | 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                           | 127.67                 | 33.03                |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 19.82                  |                      |
| 26 05 33        | 13-2114        | EA  | 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial                             | 40.86                  | 9.14                 |
|                 |                |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5.48                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2115 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct   |                           |                         |
| Burial  | 44.30                     | 10.54                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 6.32                      |                         |
| 26 05 33 13-2116 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 51.27                     | 13.36                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 8.01                      |                         |
| 26 05 33 13-2117 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 60.04                     | 15.46                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 9.28                      |                         |
| 26 05 33 13-2118 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 65.50                     | 17.57                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 10.54                     |                         |
| 26 05 33 13-2119 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 73.78                     | 19.68                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 11.81                     |                         |
| 26 05 33 13-2120 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 100.54                    | 23.90                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 14.34                     |                         |
| 26 05 33 13-2121 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 132.81                    | 33.03                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 19.82                     |                         |
| 26 05 33 13-2122 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 157.76                    | 37.24                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 22.35                     |                         |
| 26 05 33 13-2123 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 186.06                    | 48.49                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 29.09                     |                         |
| 26 05 33 13-2124 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct   |                           |                         |
| Burial  | 41.18                     | 9.14                    |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 5.48                      |                         |
| 26 05 33 13-2125 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct   |                           |                         |
| Burial  | 44.64                     | 10.54                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 6.32                      |                         |
| 26 05 33 13-2126 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 51.64                     | 13.36                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 8.01                      |                         |
| 26 05 33 13-2127 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 60.69                     | 15.46                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 9.28                      |                         |
| 26 05 33 13-2128 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 66.18                     | 17.57                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 10.54                     |                         |
| 26 05 33 13-2129 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 75.26                     | 19.68                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 11.81                     |                         |
| 26 05 33 13-2130 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 110.06                    | 23.90                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 14.34                     |                         |
| 26 05 33 13-2131 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 140.52                    | 33.03                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 19.82                     |                         |
| 26 05 33 13-2132 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 159.40                    | 37.24                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 22.35                     |                         |
| 26 05 33 13-2133 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 190.46                    | 48.49                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 29.09                     |                         |
| 26 05 33 13-2134 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 278.94                    | 66.76                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 40.06                     |                         |
| 26 05 33 13-2135 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct   |                           |                         |
| Burial  | 41.78                     | 9.14                    |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 5.48                      |                         |
| 26 05 33 13-2136 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct   |                           |                         |
| Burial  | 45.24                     | 10.54                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 6.32                      |                         |
| 26 05 33 13-2137 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 52.29                     | 13.36                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 8.01                      |                         |
| 26 05 33 13-2138 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 61.90                     | 15.46                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 9.28                      |                         |
| 26 05 33 13-2139 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 67.63                     | 17.57                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 10.54                     |                         |
| 26 05 33 13-2140 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 76.73                     | 19.68                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 11.81                     |                         |
| 26 05 33 13-2141 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct |                           |                         |
| Burial  | 119.72                    | 23.90                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 14.34                     |                         |
| 26 05 33 13-2142 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct     |                           |                         |
| Burial  | 150.77                    | 33.03                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 19.82                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 05 33 13-2143 | EA  | 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial  | 168.63                    | 37.24                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 22.35                     |                         |
| 26 05 33 13-2144 | EA  | 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 206.02                    | 48.49                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 29.09                     |                         |
| 26 05 33 13-2145 | EA  | 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 302.21                    | 66.76                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 40.06                     |                         |
| 26 05 33 13-2146 | EA  | 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial    | 42.72                     | 9.14                    |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 5.48                      |                         |
| 26 05 33 13-2147 | EA  | 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial    | 46.16                     | 10.54                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 6.32                      |                         |
| 26 05 33 13-2148 | EA  | 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 53.74                     | 13.36                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 8.01                      |                         |
| 26 05 33 13-2149 | EA  | 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial  | 62.21                     | 15.46                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 9.28                      |                         |
| 26 05 33 13-2150 | EA  | 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial  | 70.58                     | 17.57                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 10.54                     |                         |
| 26 05 33 13-2151 | EA  | 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 83.93                     | 19.68                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 11.81                     |                         |
| 26 05 33 13-2152 | EA  | 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial  | 131.61                    | 23.90                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 14.34                     |                         |
| 26 05 33 13-2153 | EA  | 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 164.78                    | 33.03                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 19.82                     |                         |
| 26 05 33 13-2154 | EA  | 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial  | 191.73                    | 37.24                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 22.35                     |                         |
| 26 05 33 13-2155 | EA  | 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 229.39                    | 48.49                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 29.09                     |                         |
| 26 05 33 13-2156 | EA  | 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial      | 318.15                    | 66.76                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 40.06                     |                         |
| 26 05 33 13-2157 | EA  | 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial   | 43.71                     | 9.14                    |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 5.48                      |                         |
| 26 05 33 13-2158 | EA  | 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial   | 47.13                     | 10.54                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 6.32                      |                         |
| 26 05 33 13-2159 | EA  | 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial     | 55.16                     | 13.36                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 8.01                      |                         |
| 26 05 33 13-2160 | EA  | 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial | 66.56                     | 15.46                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 9.28                      |                         |
| 26 05 33 13-2161 | EA  | 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial | 77.59                     | 17.57                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 10.54                     |                         |
| 26 05 33 13-2162 | EA  | 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial     | 94.52                     | 19.68                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 11.81                     |                         |
| 26 05 33 13-2163 | EA  | 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial | 144.18                    | 23.90                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 14.34                     |                         |
| 26 05 33 13-2164 | EA  | 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial     | 182.74                    | 33.03                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 19.82                     |                         |
| 26 05 33 13-2165 | EA  | 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial | 215.99                    | 37.24                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 22.35                     |                         |
| 26 05 33 13-2166 | EA  | 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial     | 270.27                    | 48.49                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 29.09                     |                         |
| 26 05 33 13-2167 | EA  | 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial     | 349.98                    | 66.76                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 40.06                     |                         |
| 26 05 33 13-2168 | EA  | 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial   | 44.73                     | 9.14                    |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 5.48                      |                         |
| 26 05 33 13-2169 | EA  | 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial   | 48.26                     | 10.54                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 6.32                      |                         |
| 26 05 33 13-2170 | EA  | 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial     | 58.79                     | 13.36                   |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 8.01                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2171 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                           | 73.71                     | 15.46                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 9.28                      |                         |
| 26 05 33 13-2172 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                           | 86.07                     | 17.57                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 10.54                     |                         |
| 26 05 33 13-2173 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                               | 103.02                    | 19.68                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 11.81                     |                         |
| 26 05 33 13-2174 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                           | 160.95                    | 23.90                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 14.34                     |                         |
| 26 05 33 13-2175 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                               | 209.65                    | 33.03                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 19.82                     |                         |
| 26 05 33 13-2176 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                           | 230.88                    | 37.24                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 22.35                     |                         |
| 26 05 33 13-2177 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                               | 282.81                    | 48.49                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 29.09                     |                         |
| 26 05 33 13-2178 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial .....                               | 354.52                    | 66.76                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 40.06                     |                         |
| <br>26 05 33 13-2179 <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-1868)</small><br>Note: Direct burial or encased application. |                           |                         |
| 26 05 33 13-2180 <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-2179)</small>  |                           |                         |
| 26 05 33 13-2181 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 9.87                      | 1.59                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.20                      |                         |
| 26 05 33 13-2182 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 10.93                     | 1.72                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.29                      |                         |
| 26 05 33 13-2183 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 11.62                     | 1.84                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.38                      |                         |
| 26 05 33 13-2184 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 12.31                     | 1.96                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.47                      |                         |
| 26 05 33 13-2185 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 13.22                     | 2.08                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.57                      |                         |
| 26 05 33 13-2186 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 13.74                     | 2.21                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.66                      |                         |
| 26 05 33 13-2187 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 15.67                     | 2.33                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.75                      |                         |
| 26 05 33 13-2188 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 17.95                     | 2.45                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.84                      |                         |
| 26 05 33 13-2189 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 19.73                     | 2.57                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 1.93                      |                         |
| 26 05 33 13-2190 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 21.51                     | 2.70                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 2.03                      |                         |
| 26 05 33 13-2191 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 25.49                     | 2.82                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 2.12                      |                         |
| 26 05 33 13-2192 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial .....  | 30.42                     | 2.94                    |
| <i>For Work In Restricted Working Space, Add</i> .....  | 2.21                      |                         |
| <br>26 05 33 13-2193 <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-2179)</small>      |                           |                         |
| 26 05 33 13-2194 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....                       | 139.62                    | 12.27                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 9.20                      |                         |
| <i>For 24" Radius, Add</i> .....  | 9.70                      |                         |
| <i>For 36" Radius, Add</i> .....  | 13.96                     |                         |
| <i>For 48" Radius, Add</i> .....  | 18.22                     |                         |
| 26 05 33 13-2195 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....                       | 158.78                    | 14.72                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 11.04                     |                         |
| <i>For 24" Radius, Add</i> .....  | 10.99                     |                         |
| <i>For 36" Radius, Add</i> .....  | 15.88                     |                         |
| <i>For 48" Radius, Add</i> .....  | 20.77                     |                         |
| 26 05 33 13-2196 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....                         | 166.16                    | 17.18                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 12.88                     |                         |
| <i>For 24" Radius, Add</i> .....  | 11.39                     |                         |
| <i>For 36" Radius, Add</i> .....  | 16.62                     |                         |
| <i>For 48" Radius, Add</i> .....  | 21.84                     |                         |
| 26 05 33 13-2197 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....                     | 173.49                    | 19.63                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 14.72                     |                         |
| <i>For 24" Radius, Add</i> .....  | 11.79                     |                         |
| <i>For 36" Radius, Add</i> .....  | 17.35                     |                         |
| <i>For 48" Radius, Add</i> .....  | 22.91                     |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR   | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|---------|-----|--|------------------------|----------------------|
| 26 05 33  | 13-2198 | EA  | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial..... | 180.87                 | 22.08                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.56                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 12.19                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 18.09                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 23.99                  |                      |
| 26 05 33  | 13-2199 | EA  | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....     | 204.33                 | 24.54                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 18.40                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 13.79                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 20.43                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 27.07                  |                      |
| 26 05 33  | 13-2200 | EA  | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial..... | 238.62                 | 26.99                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.24                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 16.21                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 23.86                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 31.51                  |                      |
| 26 05 33  | 13-2201 | EA  | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....     | 278.98                 | 29.44                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 22.08                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 19.08                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 27.90                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 36.71                  |                      |
| 26 05 33  | 13-2202 | EA  | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial..... | 316.92                 | 34.35                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 25.76                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 21.62                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 31.69                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 41.76                  |                      |
| 26 05 33  | 13-2203 | EA  | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....     | 354.85                 | 44.16                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 29.44                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 24.16                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 35.49                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 46.81                  |                      |
| 26 05 33  | 13-2204 | EA  | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....     | 431.30                 | 44.16                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 33.12                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 29.59                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 43.13                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 56.67                  |                      |
| 26 05 33  | 13-2205 | EA  | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....     | 523.80                 | 49.07                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 36.81                  |                      |
|   |         |     | <i>For 24" Radius, Add</i>   | 36.22                  |                      |
|   |         |     | <i>For 36" Radius, Add</i>   | 52.38                  |                      |
|   |         |     | <i>For 48" Radius, Add</i>   | 68.54                  |                      |
| <b>26 05 33 13-2206 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings</b> <small>(26 05 33 13-2179)</small>        |         |     |  |                        |                      |
| 26 05 33  | 13-2207 | EA  | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                       | 62.29                  | 6.87                 |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 5.15                   |                      |
| 26 05 33  | 13-2208 | EA  | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                       | 69.90                  | 7.85                 |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 5.89                   |                      |
| 26 05 33  | 13-2209 | EA  | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                         | 72.87                  | 8.83                 |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 6.62                   |                      |
| 26 05 33  | 13-2210 | EA  | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                     | 75.75                  | 9.81                 |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 7.36                   |                      |
| 26 05 33  | 13-2211 | EA  | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                     | 79.23                  | 10.80                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 8.10                   |                      |
| 26 05 33  | 13-2212 | EA  | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                         | 91.65                  | 11.78                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 8.83                   |                      |
| 26 05 33  | 13-2213 | EA  | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                     | 108.00                 | 13.25                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 9.94                   |                      |
| 26 05 33  | 13-2214 | EA  | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                         | 126.65                 | 14.72                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 11.04                  |                      |
| 26 05 33  | 13-2215 | EA  | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                     | 144.02                 | 17.18                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 12.88                  |                      |
| 26 05 33  | 13-2216 | EA  | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                         | 161.38                 | 19.63                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 14.72                  |                      |
| 26 05 33  | 13-2217 | EA  | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                         | 195.59                 | 22.08                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 16.56                  |                      |
| 26 05 33  | 13-2218 | EA  | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....                         | 236.76                 | 24.54                |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 18.40                  |                      |
| <b>26 05 33 13-2219 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings</b> <small>(26 05 33 13-2179)</small> |         |     |  |                        |                      |
| 26 05 33  | 13-2220 | EA  | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....                | 42.63                  | 6.87                 |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 5.15                   |                      |
| 26 05 33  | 13-2221 | EA  | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....                | 47.91                  | 7.85                 |
|   |         |     | <i>For Work In Restricted Working Space, Add</i>   | 5.89                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2222 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 50.66<br>6.62             | 8.83                    |
| 26 05 33 13-2223 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 53.42<br>7.36             | 9.81                    |
| 26 05 33 13-2224 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 56.17<br>8.10             | 10.80                   |
| 26 05 33 13-2225 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 58.79<br>8.83             | 11.78                   |
| 26 05 33 13-2226 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 68.34<br>9.94             | 13.25                   |
| 26 05 33 13-2227 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 79.07<br>11.04            | 14.72                   |
| 26 05 33 13-2228 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 90.50<br>12.88            | 17.18                   |
| 26 05 33 13-2229 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 101.91<br>14.72           | 19.63                   |
| 26 05 33 13-2230 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 121.31<br>16.56           | 22.08                   |
| 26 05 33 13-2231 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 143.91<br>18.40           | 24.54                   |

**26 05 33 13-2232 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings** (26 05 33 13-2179)

|  |                 |       |
|--|-----------------|-------|
| 26 05 33 13-2233 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>   | 41.45<br>2.94   | 3.93  |
| 26 05 33 13-2234 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>   | 46.22<br>3.32   | 4.42  |
| 26 05 33 13-2235 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 47.82<br>3.68   | 4.91  |
| 26 05 33 13-2236 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 49.27<br>4.05   | 5.40  |
| 26 05 33 13-2237 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 51.30<br>4.42   | 5.89  |
| 26 05 33 13-2238 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 60.74<br>5.15   | 6.87  |
| 26 05 33 13-2239 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 73.10<br>6.26   | 8.34  |
| 26 05 33 13-2240 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 87.22<br>7.36   | 9.81  |
| 26 05 33 13-2241 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 101.18<br>9.20  | 12.27 |
| 26 05 33 13-2242 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 115.14<br>11.04 | 14.72 |
| 26 05 33 13-2243 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 140.83<br>12.88 | 17.18 |
| 26 05 33 13-2244 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 171.48<br>14.72 | 19.63 |

**26 05 33 13-2245 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints** (26 05 33 13-2179)

|  |                 |       |
|--|-----------------|-------|
| 26 05 33 13-2246 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>   | 96.21<br>18.40  | 24.54 |
| 26 05 33 13-2247 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>   | 112.29<br>22.08 | 29.44 |
| 26 05 33 13-2248 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 124.99<br>25.76 | 34.35 |
| 26 05 33 13-2249 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 137.50<br>29.44 | 39.26 |
| 26 05 33 13-2250 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 144.54<br>31.28 | 41.71 |
| 26 05 33 13-2251 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 158.33<br>33.12 | 44.16 |
| 26 05 33 13-2252 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 174.06<br>34.97 | 46.62 |
| 26 05 33 13-2253 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 191.70<br>36.81 | 49.07 |
| 26 05 33 13-2254 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i> | 206.45<br>38.65 | 51.53 |
| 26 05 33 13-2255 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 221.22<br>40.49 | 53.98 |
| 26 05 33 13-2256 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 248.91<br>42.33 | 56.43 |
| 26 05 33 13-2257 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial .....<br><i>For Work In Restricted Working Space, Add</i>     | 282.01<br>44.17 | 58.89 |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 05 33 13-2258 |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints</b> <small>(26 05 33 13-2179)</small>            |                        |                      |
| 26 05 33 13-2259 | EA  |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                            | 110.37                 | 24.54                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 18.40                  |                      |
| 26 05 33 13-2260 | EA  |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                            | 128.16                 | 29.44                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 22.08                  |                      |
| 26 05 33 13-2261 | EA  |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                              | 140.95                 | 34.35                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 25.76                  |                      |
| 26 05 33 13-2262 | EA  |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                          | 153.63                 | 39.26                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 29.44                  |                      |
| 26 05 33 13-2263 | EA  |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                          | 160.80                 | 41.71                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 31.28                  |                      |
| 26 05 33 13-2264 | EA  |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                              | 176.90                 | 44.16                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 33.12                  |                      |
| 26 05 33 13-2265 | EA  |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                          | 196.34                 | 46.62                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 34.97                  |                      |
| 26 05 33 13-2266 | EA  |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                              | 218.44                 | 49.07                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 36.81                  |                      |
| 26 05 33 13-2267 | EA  |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                          | 236.55                 | 51.53                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 38.65                  |                      |
| 26 05 33 13-2268 | EA  |     | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                              | 254.67                 | 53.98                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 40.49                  |                      |
| 26 05 33 13-2269 | EA  |     | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                              | 290.84                 | 56.43                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 42.33                  |                      |
| 26 05 33 13-2270 | EA  |     | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial .....                              | 334.42                 | 58.89                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 44.17                  |                      |
| 26 05 33 13-2271 |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters</b> <small>(26 05 33 13-2179)</small>                           |                        |                      |
| 26 05 33 13-2272 | EA  |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 133.76                 | 6.87                 |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 5.15                   |                      |
| 26 05 33 13-2273 | EA  |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 149.14                 | 7.85                 |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 5.89                   |                      |
| 26 05 33 13-2274 | EA  |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 155.57                 | 8.83                 |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 6.62                   |                      |
| 26 05 33 13-2275 | EA  |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 162.18                 | 9.81                 |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 7.36                   |                      |
| 26 05 33 13-2276 | EA  |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 166.77                 | 10.80                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 8.10                   |                      |
| 26 05 33 13-2277 | EA  |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 182.52                 | 11.78                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 8.83                   |                      |
| 26 05 33 13-2278 | EA  |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 216.85                 | 13.25                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 9.94                   |                      |
| 26 05 33 13-2279 | EA  |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 257.14                 | 14.72                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 11.04                  |                      |
| 26 05 33 13-2280 | EA  |     | 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 290.84                 | 17.18                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 12.88                  |                      |
| 26 05 33 13-2281 | EA  |     | 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 324.52                 | 19.63                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 14.72                  |                      |
| 26 05 33 13-2282 | EA  |     | 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 399.63                 | 22.08                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 16.56                  |                      |
| 26 05 33 13-2283 | EA  |     | 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial .....   | 489.19                 | 24.54                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 18.40                  |                      |
| 26 05 33 13-2284 |     |     | <b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints</b> <small>(26 05 33 13-2179)</small> |                        |                      |
| 26 05 33 13-2285 | EA  |     | 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....                 | 134.99                 | 24.54                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 18.40                  |                      |
| 26 05 33 13-2286 | EA  |     | 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....                 | 155.46                 | 29.44                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 22.08                  |                      |
| 26 05 33 13-2287 | EA  |     | 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....                   | 186.99                 | 34.35                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 25.76                  |                      |
| 26 05 33 13-2288 | EA  |     | 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....               | 234.46                 | 39.26                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 29.44                  |                      |
| 26 05 33 13-2289 | EA  |     | 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....               | 291.16                 | 41.71                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 31.28                  |                      |
| 26 05 33 13-2290 | EA  |     | 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....                   | 387.37                 | 44.16                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 33.12                  |                      |
| 26 05 33 13-2291 | EA  |     | 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....               | 552.37                 | 46.62                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 34.97                  |                      |
| 26 05 33 13-2292 | EA  |     | 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....                   | 663.10                 | 49.07                |
|                  |     |     | <i>For Work In Restricted Working Space, Add</i> .....   | 36.81                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2293 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....             | 793.44                    | 51.53                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 38.65                     |                         |
| 26 05 33 13-2294 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....                 | 923.79                    | 53.98                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 40.49                     |                         |
| 26 05 33 13-2295 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....                 | 1,078.09                  | 56.43                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 42.33                     |                         |
| 26 05 33 13-2296 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....                 | 1,737.96                  | 58.89                   |
| <i>For Work In Restricted Working Space, Add</i> .....  | 44.17                     |                         |
| <br><b>26 05 33 13-2297 Spacers</b> <small>(26 05 33 13-1868)</small>   |                           |                         |
| <small>Note: For concrete encasement applications. See CSI section 26 05 33 13-1868 for conduit.</small>  |                           |                         |
| 26 05 33 13-2298 EA 1" Base Spacers, Average 4" Wide, Direct Burial.....  | 12.91                     |                         |
| 26 05 33 13-2299 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 13.88                     |                         |
| 26 05 33 13-2300 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial.....   | 15.37                     |                         |
| 26 05 33 13-2301 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 16.55                     |                         |
| 26 05 33 13-2302 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial.....   | 15.50                     |                         |
| 26 05 33 13-2303 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 16.64                     |                         |
| 26 05 33 13-2304 EA 2" Base Spacer, Average 4" Wide, Direct Burial.....   | 19.26                     |                         |
| 26 05 33 13-2305 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 17.87                     |                         |
| 26 05 33 13-2306 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial.....   | 21.28                     |                         |
| 26 05 33 13-2307 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 20.58                     |                         |
| 26 05 33 13-2308 EA 3" Base Spacer, Average 4" Wide, Direct Burial.....   | 24.36                     |                         |
| 26 05 33 13-2309 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 23.26                     |                         |
| 26 05 33 13-2310 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial.....   | 26.40                     |                         |
| 26 05 33 13-2311 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 25.24                     |                         |
| 26 05 33 13-2312 EA 4" Base Spacer, Average 4" Wide, Direct Burial.....   | 27.19                     |                         |
| 26 05 33 13-2313 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 25.95                     |                         |
| 26 05 33 13-2314 EA 5" Base Spacer, Average 4" Wide, Direct Burial.....   | 30.07                     |                         |
| 26 05 33 13-2315 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 28.58                     |                         |
| 26 05 33 13-2316 EA 6" Base Spacer, Average 4" Wide, Direct Burial.....   | 33.87                     |                         |
| 26 05 33 13-2317 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial.....  | 32.63                     |                         |
| <br><b>26 05 33 13-2318 Conduit Field Bending</b> <small>(26 05 33 13-0058)</small>   |                           |                         |
| <b>26 05 33 13-2319 Metallic Conduit Field Bending</b> <small>(26 05 33 13-2318)</small>  |                           |                         |
| <small>Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.</small> |                           |                         |
| 26 05 33 13-2320 EA 1-1/4" Metallic Conduit Field Bending.....  | 23.59                     |                         |
| 26 05 33 13-2321 EA 1-1/2" Metallic Conduit Field Bending.....  | 31.44                     |                         |
| 26 05 33 13-2322 EA 2" Metallic Conduit Field Bending.....  | 39.30                     |                         |
| 26 05 33 13-2323 EA 2-1/2" Metallic Conduit Field Bending.....  | 55.03                     |                         |
| 26 05 33 13-2324 EA 3" Metallic Conduit Field Bending.....  | 70.75                     |                         |
| 26 05 33 13-2325 EA 3-1/2" Metallic Conduit Field Bending.....  | 86.46                     |                         |
| 26 05 33 13-2326 EA 4" Metallic Conduit Field Bending.....  | 102.19                    |                         |
| 26 05 33 13-2327 EA 5" Metallic Conduit Field Bending.....  | 125.78                    |                         |
| 26 05 33 13-2328 EA 6" Metallic Conduit Field Bending.....  | 149.35                    |                         |
| <br><b>26 05 33 13-2329 Plastic Conduit Field Bending</b> <small>(26 05 33 13-2318)</small>   |                           |                         |
| <small>Note: For PVC conduits.</small>  |                           |                         |
| 26 05 33 13-2330 EA 1" Plastic Conduit Field Bending.....   | 36.16                     |                         |
| 26 05 33 13-2331 EA 1-1/4" Plastic Conduit Field Bending.....   | 39.30                     |                         |
| 26 05 33 13-2332 EA 1-1/2" Plastic Conduit Field Bending.....   | 47.16                     |                         |
| 26 05 33 13-2333 EA 2" Plastic Conduit Field Bending.....   | 62.89                     |                         |
| 26 05 33 13-2334 EA 2-1/2" Plastic Conduit Field Bending.....   | 78.61                     |                         |
| 26 05 33 13-2335 EA 3" Plastic Conduit Field Bending.....   | 94.33                     |                         |
| 26 05 33 13-2336 EA 3-1/2" Plastic Conduit Field Bending.....   | 110.05                    |                         |
| 26 05 33 13-2337 EA 4" Plastic Conduit Field Bending.....   | 125.78                    |                         |
| 26 05 33 13-2338 EA 5" Plastic Conduit Field Bending.....   | 141.50                    |                         |
| 26 05 33 13-2339 EA 6" Plastic Conduit Field Bending.....   | 157.22                    |                         |
| <br><b>26 05 33 13-2340 Cut And Thread Existing In-Place Threaded Conduit</b> <small>(26 05 33 13-0058)</small>   |                           |                         |
| <small>Note: For use when connecting conduit to an existing in-place system.</small>  |                           |                         |
| 26 05 33 13-2341 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit.....  | 46.21                     |                         |
| <i>For Work In Restricted Working Space, Add</i> .....  | 13.86                     |                         |
| 26 05 33 13-2342 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit.....  | 50.82                     |                         |
| <i>For Work In Restricted Working Space, Add</i> .....  | 15.25                     |                         |
| 26 05 33 13-2343 EA 1", Cut And Thread Existing In-Place Threaded Conduit.....  | 55.45                     |                         |
| <i>For Work In Restricted Working Space, Add</i> .....  | 16.64                     |                         |
| 26 05 33 13-2344 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....  | 60.07                     |                         |
| <i>For Work In Restricted Working Space, Add</i> .....  | 18.02                     |                         |
| 26 05 33 13-2345 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....  | 63.15                     |                         |
| <i>For Work In Restricted Working Space, Add</i> .....  | 18.95                     |                         |
| 26 05 33 13-2346 EA 2", Cut And Thread Existing In-Place Threaded Conduit.....  | 66.23                     |                         |
| <i>For Work In Restricted Working Space, Add</i> .....  | 19.87                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2347 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....                              | 69.31                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 20.79                     |                         |
| 26 05 33 13-2348 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....                                  | 72.39                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 21.72                     |                         |
| 26 05 33 13-2349 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....                              | 73.93                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 22.18                     |                         |
| 26 05 33 13-2350 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....                                  | 75.47                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 22.64                     |                         |
| 26 05 33 13-2351 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....                                  | 78.55                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 23.57                     |                         |
| 26 05 33 13-2352 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....                                  | 81.63                     |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 24.49                     |                         |
| <b>26 05 33 13-2353 Flexible Conduit</b> <small>(26 05 33 13-0058)</small>                                      |                           |                         |
| <b>26 05 33 13-2354 Flexible Liquid Tight Metallic Conduit And Connectors</b> <small>(26 05 33 13-2353)</small> |                           |                         |
| Note: Steel inner core with PVC cover.  |                           |                         |
| <b>26 05 33 13-2355 Flexible Liquid Tight Metallic Conduit</b> <small>(26 05 33 13-2354)</small>                |                           |                         |
| 26 05 33 13-2356 LF 3/8" Flexible Liquid Tight Metallic Conduit.....  | 5.57                      | 1.68                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 0.63                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.27                      |                         |
| 26 05 33 13-2357 LF 1/2" Flexible Liquid Tight Metallic Conduit.....  | 5.77                      | 1.68                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 0.63                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.27                      |                         |
| 26 05 33 13-2358 LF 3/4" Flexible Liquid Tight Metallic Conduit.....  | 7.72                      | 2.24                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 0.84                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.69                      |                         |
| 26 05 33 13-2359 LF 1" Flexible Liquid Tight Metallic Conduit.....  | 8.79                      | 2.24                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 0.84                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 1.69                      |                         |
| 26 05 33 13-2360 LF 1-1/4" Flexible Liquid Tight Metallic Conduit.....  | 11.34                     | 2.82                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 1.05                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 2.11                      |                         |
| 26 05 33 13-2361 LF 1-1/2" Flexible Liquid Tight Metallic Conduit.....  | 14.50                     | 3.38                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 1.27                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 2.53                      |                         |
| 26 05 33 13-2362 LF 2" Flexible Liquid Tight Metallic Conduit.....  | 19.09                     | 4.50                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 1.69                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 3.37                      |                         |
| 26 05 33 13-2363 LF 2-1/2" Flexible Liquid Tight Metallic Conduit.....  | 25.61                     | 5.06                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 1.90                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 3.80                      |                         |
| 26 05 33 13-2364 LF 3" Flexible Liquid Tight Metallic Conduit.....  | 37.25                     | 6.18                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 2.32                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 4.64                      |                         |
| 26 05 33 13-2365 LF 4" Flexible Liquid Tight Metallic Conduit.....  | 50.78                     | 7.88                    |
| <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                                   | 2.95                      |                         |
| <i>For Work In Restricted Working Space, Add</i>  | 5.90                      |                         |
| <b>26 05 33 13-2366 Straight Liquid Tight Connector</b> <small>(26 05 33 13-2354)</small>                       |                           |                         |
| 26 05 33 13-2367 EA 3/8" Straight Liquid Tight Connector.....   | 15.08                     | 4.50                    |
| <i>For Work In Restricted Working Space, Add</i>  | 3.37                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 3.37                      |                         |
| 26 05 33 13-2368 EA 1/2" Straight Liquid Tight Connector.....   | 15.08                     | 4.50                    |
| <i>For Work In Restricted Working Space, Add</i>  | 3.37                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 3.37                      |                         |
| 26 05 33 13-2369 EA 3/4" Straight Liquid Tight Connector.....   | 18.16                     | 5.06                    |
| <i>For Work In Restricted Working Space, Add</i>  | 3.80                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 3.80                      |                         |
| 26 05 33 13-2370 EA 1" Straight Liquid Tight Connector.....   | 23.89                     | 5.62                    |
| <i>For Work In Restricted Working Space, Add</i>  | 4.22                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 4.22                      |                         |
| 26 05 33 13-2371 EA 1-1/4" Straight Liquid Tight Connector.....   | 30.32                     | 6.18                    |
| <i>For Work In Restricted Working Space, Add</i>  | 4.64                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 4.64                      |                         |
| 26 05 33 13-2372 EA 1-1/2" Straight Liquid Tight Connector.....   | 38.06                     | 6.74                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.06                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 5.06                      |                         |
| 26 05 33 13-2373 EA 2" Straight Liquid Tight Connector.....   | 51.97                     | 7.88                    |
| <i>For Work In Restricted Working Space, Add</i>  | 5.90                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 5.90                      |                         |
| 26 05 33 13-2374 EA 2-1/2" Straight Liquid Tight Connector.....   | 171.90                    | 10.12                   |
| <i>For Work In Restricted Working Space, Add</i>  | 7.59                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 7.59                      |                         |
| 26 05 33 13-2375 EA 3" Straight Liquid Tight Connector.....   | 220.85                    | 10.68                   |
| <i>For Work In Restricted Working Space, Add</i>  | 8.01                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 8.01                      |                         |
| 26 05 33 13-2376 EA 4" Straight Liquid Tight Connector.....   | 271.23                    | 15.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.81                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 11.81                     |                         |



|  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|---|------------------------|----------------------|
| <b>26 05 33 13-2377 90 Degree Angle Liquid Tight Connector</b> <small>(26 05 33 13-2354)</small>   |       |     |     |   |                        |                      |
| 26 05 33 13-2378   | EA    |     |     | 3/8" 90 Degree Angle Liquid Tight Connector.....  | 21.88                  | 6.18                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.64                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4.64                   |                      |
| 26 05 33 13-2379   | EA    |     |     | 1/2" 90 Degree Angle Liquid Tight Connector.....  | 22.71                  | 6.18                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.64                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4.64                   |                      |
| 26 05 33 13-2380   | EA    |     |     | 3/4" 90 Degree Angle Liquid Tight Connector.....  | 25.58                  | 6.74                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.06                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.06                   |                      |
| 26 05 33 13-2381   | EA    |     |     | 1" 90 Degree Angle Liquid Tight Connector.....  | 35.53                  | 7.88                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.90                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.90                   |                      |
| 26 05 33 13-2382   | EA    |     |     | 1-1/4" 90 Degree Angle Liquid Tight Connector.....  | 44.26                  | 8.44                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.32                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.32                   |                      |
| 26 05 33 13-2383   | EA    |     |     | 1-1/2" 90 Degree Angle Liquid Tight Connector.....  | 53.28                  | 9.00                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.75                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.75                   |                      |
| 26 05 33 13-2384   | EA    |     |     | 2" 90 Degree Angle Liquid Tight Connector.....  | 69.87                  | 10.12                |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 7.59                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7.59                   |                      |
| 26 05 33 13-2385   | EA    |     |     | 2-1/2" 90 Degree Angle Liquid Tight Connector.....  | 238.99                 | 10.68                |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 8.01                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.01                   |                      |
| 26 05 33 13-2386   | EA    |     |     | 3" 90 Degree Angle Liquid Tight Connector.....  | 282.32                 | 12.36                |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 9.28                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.28                   |                      |
| 26 05 33 13-2387   | EA    |     |     | 4" 90 Degree Angle Liquid Tight Connector.....  | 391.40                 | 19.68                |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 14.76                  |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 14.76                  |                      |
| <b>26 05 33 13-2388 45 Degree Angle Connector</b> <small>(26 05 33 13-2354)</small>                |       |     |     |   |                        |                      |
| 26 05 33 13-2389   | EA    |     |     | 3/8" 45 Degree Angle Liquid Tight Connector.....  | 21.60                  | 6.18                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.64                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4.64                   |                      |
| 26 05 33 13-2390   | EA    |     |     | 1/2" 45 Degree Angle Liquid Tight Connector.....  | 21.80                  | 6.18                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 4.64                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4.64                   |                      |
| 26 05 33 13-2391   | EA    |     |     | 3/4" 45 Degree Angle Liquid Tight Connector.....  | 25.58                  | 6.74                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.06                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.06                   |                      |
| 26 05 33 13-2392   | EA    |     |     | 1" 45 Degree Angle Liquid Tight Connector.....  | 37.79                  | 7.88                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 5.90                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.90                   |                      |
| 26 05 33 13-2393   | EA    |     |     | 1-1/4" 45 Degree Angle Liquid Tight Connector.....  | 42.79                  | 8.44                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.32                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.32                   |                      |
| 26 05 33 13-2394   | EA    |     |     | 1-1/2" 45 Degree Angle Liquid Tight Connector.....  | 47.81                  | 9.00                 |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 6.75                   |                      |
|  |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.75                   |                      |
| <b>26 05 33 13-2395 Flexible Metallic Conduit And Connectors</b> <small>(26 05 33 13-2353)</small> |       |     |     |   |                        |                      |
| <b>26 05 33 13-2396 Flexible Steel Conduit</b> <small>(26 05 33 13-2395)</small>                   |       |     |     |   |                        |                      |
| 26 05 33 13-2397   | LF    |     |     | 3/8" Flexible Metallic Conduit.....   | 5.28                   | 1.84                 |
|  |       |     |     | <i>For Flexible Aluminum Conduit, Add</i>   | 0.13                   |                      |
|  |       |     |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.68                   |                      |
|  |       |     |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.45                   |                      |
|  |       |     |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.13                   |                      |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.35                   |                      |
| 26 05 33 13-2398   | LF    |     |     | 1/2" Flexible Metallic Conduit.....   | 5.47                   | 1.84                 |
|  |       |     |     | <i>For Flexible Aluminum Conduit, Add</i>   | 0.14                   |                      |
|  |       |     |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.69                   |                      |
|  |       |     |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.46                   |                      |
|  |       |     |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.16                   |                      |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.39                   |                      |
| 26 05 33 13-2399   | LF    |     |     | 3/4" Flexible Metallic Conduit.....   | 6.16                   | 2.46                 |
|  |       |     |     | <i>For Flexible Aluminum Conduit, Add</i>   | 0.19                   |                      |
|  |       |     |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.75                   |                      |
|  |       |     |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.50                   |                      |
|  |       |     |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.25                   |                      |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.50                   |                      |
| 26 05 33 13-2400   | LF    |     |     | 1" Flexible Metallic Conduit.....   | 7.54                   | 2.46                 |
|  |       |     |     | <i>For Flexible Aluminum Conduit, Add</i>   | 0.36                   |                      |
|  |       |     |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.81                   |                      |
|  |       |     |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.54                   |                      |
|  |       |     |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.35                   |                      |
|  |       |     |     | <i>For Work In Restricted Working Space, Add</i>  | 1.61                   |                      |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-2401 | LF  | 1-1/4" Flexible Metallic Conduit.....   | 8.50                   | 3.08                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 0.46                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.85                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.57                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.42                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 1.71                   |                      |
| 26 05 33 | 13-2402 | LF  | 1-1/2" Flexible Metallic Conduit.....   | 10.85                  | 3.70                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 0.81                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.89                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.59                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.48                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 1.78                   |                      |
| 26 05 33 | 13-2403 | LF  | 2" Flexible Metallic Conduit.....   | 12.19                  | 4.92                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 1.00                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 0.92                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.62                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.54                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 1.85                   |                      |
| 26 05 33 | 13-2404 | LF  | 2-1/2" Flexible Steel Conduit.....  | 15.00                  | 5.54                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 1.21                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 1.15                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.77                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 1.92                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.31                   |                      |
| 26 05 33 | 13-2405 | LF  | 3" Flexible Metallic Conduit.....   | 21.94                  | 6.77                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 2.10                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 1.38                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 0.92                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 2.31                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.77                   |                      |
| 26 05 33 | 13-2406 | LF  | 3-1/2" Flexible Metallic Conduit.....   | 26.79                  | 7.38                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 2.64                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 1.62                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 1.08                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 2.69                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 3.23                   |                      |
| 26 05 33 | 13-2407 | LF  | 4" Flexible Metallic Conduit.....   | 30.78                  | 8.62                 |
|          |         |     | <i>For Flexible Aluminum Conduit, Add</i>   | 3.05                   |                      |
|          |         |     | <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>                 | 1.85                   |                      |
|          |         |     | <i>For Installation In Metal Stud Wall, Add</i>   | 1.23                   |                      |
|          |         |     | <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>                            | 3.08                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 3.69                   |                      |
| 26 05 33 | 13-2408 |     | <b>Plain Squeeze Type Straight Connector</b> (26 05 33 13-2395)                               |                        |                      |
| 26 05 33 | 13-2409 | EA  | 3/8" Flexible Straight Connectors, Plain.....   | 8.87                   | 4.92                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.08                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2.08                   |                      |
| 26 05 33 | 13-2410 | EA  | 1/2" Flexible Straight Connectors, Plain.....   | 10.78                  | 5.54                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.31                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2.31                   |                      |
| 26 05 33 | 13-2411 | EA  | 3/4" Flexible Straight Connectors, Plain.....   | 12.49                  | 6.77                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.77                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2.77                   |                      |
| 26 05 33 | 13-2412 | EA  | 1" Flexible Straight Connectors, Plain.....   | 19.45                  | 7.38                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 3.69                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 3.69                   |                      |
| 26 05 33 | 13-2413 | EA  | 1-1/4" Flexible Straight Connectors, Plain.....   | 27.10                  | 8.62                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 4.62                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4.62                   |                      |
| 26 05 33 | 13-2414 | EA  | 1-1/2" Flexible Straight Connectors, Plain.....   | 35.49                  | 10.46                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 5.77                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5.77                   |                      |
| 26 05 33 | 13-2415 | EA  | 2" Flexible Straight Connectors, Plain.....   | 46.20                  | 10.46                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 6.92                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6.92                   |                      |
| 26 05 33 | 13-2416 | EA  | 2-1/2" Flexible Straight Connectors, Plain.....   | 72.36                  | 12.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 8.08                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.08                   |                      |
| 26 05 33 | 13-2417 | EA  | 3" Flexible Straight Connectors, Plain.....   | 93.76                  | 14.15                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 9.23                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9.23                   |                      |
| 26 05 33 | 13-2418 | EA  | 3-1/2" Flexible Straight Connectors, Plain.....   | 278.26                 | 16.61                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 10.38                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.38                  |                      |
| 26 05 33 | 13-2419 | EA  | 4" Flexible Straight Connectors, Plain.....   | 346.70                 | 20.31                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 11.54                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11.54                  |                      |
| 26 05 33 | 13-2420 |     | <b>Insulated Throat Squeeze Type Straight Connector</b> (26 05 33 13-2395)                    |                        |                      |
| 26 05 33 | 13-2421 | EA  | 1/2" Flexible Straight Connectors, Insulated.....   | 11.85                  | 5.54                 |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 2.31                   |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2.31                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2422 EA 3/4" Flexible Straight Connectors, Insulated.....                                       | 13.89                     | 6.77                    |
| For Work In Restricted Working Space, Add   | 2.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 2.77                      |                         |
| 26 05 33 13-2423 EA 1" Flexible Straight Connectors, Insulated.....   | 21.36                     | 7.38                    |
| For Work In Restricted Working Space, Add   | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 3.69                      |                         |
| 26 05 33 13-2424 EA 1-1/4" Flexible Straight Connectors, Insulated.....                                     | 30.60                     | 8.62                    |
| For Work In Restricted Working Space, Add   | 4.62                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 4.62                      |                         |
| 26 05 33 13-2425 EA 1-1/2" Flexible Straight Connectors, Insulated.....                                     | 41.70                     | 9.23                    |
| For Work In Restricted Working Space, Add   | 5.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 5.77                      |                         |
| 26 05 33 13-2426 EA 2" Flexible Straight Connectors, Insulated.....   | 57.18                     | 10.46                   |
| For Work In Restricted Working Space, Add   | 6.92                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 6.92                      |                         |
| 26 05 33 13-2427 EA 2-1/2" Flexible Straight Connectors, Insulated.....                                     | 95.86                     | 12.92                   |
| For Work In Restricted Working Space, Add   | 8.08                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 8.08                      |                         |
| 26 05 33 13-2428 EA 3" Flexible Straight Connectors, Insulated.....   | 121.46                    | 14.15                   |
| For Work In Restricted Working Space, Add   | 9.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 9.23                      |                         |
| 26 05 33 13-2429 EA 3-1/2" Flexible Straight Connectors, Insulated.....                                     | 320.95                    | 16.61                   |
| For Work In Restricted Working Space, Add   | 10.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 10.38                     |                         |
| 26 05 33 13-2430 EA 4" Flexible Straight Connectors, Insulated.....   | 410.89                    | 20.31                   |
| For Work In Restricted Working Space, Add   | 11.54                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 11.54                     |                         |
| <b>26 05 33 13-2431 Plain Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-2395)</small>            |                           |                         |
| 26 05 33 13-2432 EA 3/8" Flexible 90 Degree Connector, Plain.....   | 12.35                     | 6.15                    |
| For Work In Restricted Working Space, Add   | 2.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 2.77                      |                         |
| 26 05 33 13-2433 EA 1/2" Flexible 90 Degree Connector, Plain.....   | 16.00                     | 6.77                    |
| For Work In Restricted Working Space, Add   | 3.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 3.23                      |                         |
| 26 05 33 13-2434 EA 3/4" Flexible 90 Degree Connector, Plain.....   | 20.48                     | 7.38                    |
| For Work In Restricted Working Space, Add   | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 3.69                      |                         |
| 26 05 33 13-2435 EA 1" Flexible 90 Degree Connector, Plain.....   | 28.30                     | 8.62                    |
| For Work In Restricted Working Space, Add   | 4.62                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 4.62                      |                         |
| 26 05 33 13-2436 EA 1-1/4" Flexible 90 Degree Connector, Plain.....   | 42.98                     | 9.23                    |
| For Work In Restricted Working Space, Add   | 5.54                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 5.54                      |                         |
| 26 05 33 13-2437 EA 1-1/2" Flexible 90 Degree Connector, Plain.....   | 65.92                     | 10.77                   |
| For Work In Restricted Working Space, Add   | 6.92                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 6.92                      |                         |
| 26 05 33 13-2438 EA 2" Flexible 90 Degree Connector, Plain.....   | 79.14                     | 13.23                   |
| For Work In Restricted Working Space, Add   | 7.85                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 7.85                      |                         |
| 26 05 33 13-2439 EA 2-1/2" Flexible 90 Degree Connector, Plain.....   | 168.87                    | 14.15                   |
| For Work In Restricted Working Space, Add   | 9.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 9.23                      |                         |
| 26 05 33 13-2440 EA 3" Flexible 90 Degree Connector, Plain.....   | 215.93                    | 16.61                   |
| For Work In Restricted Working Space, Add   | 10.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 10.38                     |                         |
| 26 05 33 13-2441 EA 3-1/2" Flexible 90 Degree Connector, Plain.....   | 450.80                    | 20.31                   |
| For Work In Restricted Working Space, Add   | 11.54                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 11.54                     |                         |
| 26 05 33 13-2442 EA 4" Flexible 90 Degree Connector, Plain.....   | 800.69                    | 23.07                   |
| For Work In Restricted Working Space, Add   | 13.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 13.85                     |                         |
| <b>26 05 33 13-2443 Insulated Throat Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-2395)</small> |                           |                         |
| 26 05 33 13-2444 EA 1/2" Flexible 90 Degree Connector, Insulated.....                                       | 17.47                     | 6.77                    |
| For Work In Restricted Working Space, Add   | 3.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 3.23                      |                         |
| 26 05 33 13-2445 EA 3/4" Flexible 90 Degree Connector, Insulated.....                                       | 22.31                     | 7.38                    |
| For Work In Restricted Working Space, Add   | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 3.69                      |                         |
| 26 05 33 13-2446 EA 1" Flexible 90 Degree Connector, Insulated.....   | 28.30                     | 8.62                    |
| For Work In Restricted Working Space, Add   | 4.62                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 4.62                      |                         |
| 26 05 33 13-2447 EA 1-1/4" Flexible 90 Degree Connector, Insulated.....                                     | 49.46                     | 9.23                    |
| For Work In Restricted Working Space, Add   | 5.54                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 5.54                      |                         |
| 26 05 33 13-2448 EA 1-1/2" Flexible 90 Degree Connector, Insulated.....                                     | 77.69                     | 10.77                   |
| For Work In Restricted Working Space, Add   | 6.92                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 6.92                      |                         |
| 26 05 33 13-2449 EA 2" Flexible 90 Degree Connector, Insulated.....   | 98.27                     | 13.23                   |
| For Work In Restricted Working Space, Add   | 7.85                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                      | 7.85                      |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2450 EA 2-1/2" Flexible 90 Degree Connector, Insulated .....               | 228.69                    | 14.15                   |
| For Work In Restricted Working Space, Add  | 9.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 9.23                      |                         |
| 26 05 33 13-2451 EA 3" Flexible 90 Degree Connector, Insulated .....                   | 280.74                    | 16.61                   |
| For Work In Restricted Working Space, Add  | 10.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 10.38                     |                         |
| 26 05 33 13-2452 EA 3-1/2" Flexible 90 Degree Connector, Insulated .....               | 744.54                    | 20.31                   |
| For Work In Restricted Working Space, Add  | 11.54                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 11.54                     |                         |
| 26 05 33 13-2453 EA 4" Flexible 90 Degree Connector, Insulated .....                   | 1,108.34                  | 23.07                   |
| For Work In Restricted Working Space, Add  | 13.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 13.85                     |                         |
| <b>26 05 33 13-2454 Plain Squeeze Type 45 Degree Connector (26 05 33 13-2395)</b>      |                           |                         |
| 26 05 33 13-2455 EA 3/8" Flexible 45 Degree Connector, Plain .....                     | 13.54                     | 6.15                    |
| For Work In Restricted Working Space, Add  | 2.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.77                      |                         |
| 26 05 33 13-2456 EA 1/2" Flexible 45 Degree Connector, Plain .....                     | 17.91                     | 6.77                    |
| For Work In Restricted Working Space, Add  | 3.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 3.23                      |                         |
| 26 05 33 13-2457 EA 3/4" Flexible 45 Degree Connector, Plain .....                     | 22.61                     | 7.38                    |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 3.69                      |                         |
| <b>26 05 33 13-2458 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-2395)</b>  |                           |                         |
| 26 05 33 13-2459 EA 3/8" Flexible 45 Degree Connector, Insulated .....                 | 14.37                     | 7.38                    |
| For Work In Restricted Working Space, Add  | 2.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.77                      |                         |
| 26 05 33 13-2460 EA 1/2" Flexible 45 Degree Connector, Insulated .....                 | 19.26                     | 6.77                    |
| For Work In Restricted Working Space, Add  | 3.23                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 3.23                      |                         |
| 26 05 33 13-2461 EA 3/4" Flexible 45 Degree Connector, Insulated .....                 | 24.53                     | 7.38                    |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 3.69                      |                         |
| <b>26 05 33 13-2462 Plain Screw-In Connector (26 05 33 13-2395)</b>                    |                           |                         |
| 26 05 33 13-2463 EA 3/8" Flexible Steel Screw-in Connector, Plain .....                | 7.64                      | 4.92                    |
| For Work In Restricted Working Space, Add  | 2.08                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.08                      |                         |
| 26 05 33 13-2464 EA 1/2" Flexible Steel Screw-in Connector, Plain .....                | 8.29                      | 5.54                    |
| For Work In Restricted Working Space, Add  | 2.31                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.31                      |                         |
| 26 05 33 13-2465 EA 3/4" Flexible Steel Screw-in Connector, Plain .....                | 10.44                     | 6.77                    |
| For Work In Restricted Working Space, Add  | 2.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.77                      |                         |
| 26 05 33 13-2466 EA 1" Flexible Steel Screw-in Connector, Plain .....                  | 14.74                     | 7.38                    |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 3.69                      |                         |
| 26 05 33 13-2467 EA 1-1/4" Flexible Steel Screw-in Connector, Plain .....              | 21.10                     | 8.62                    |
| For Work In Restricted Working Space, Add  | 4.62                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 4.62                      |                         |
| 26 05 33 13-2468 EA 1-1/2" Flexible Steel Screw-in Connector, Plain .....              | 25.87                     | 9.23                    |
| For Work In Restricted Working Space, Add  | 5.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.77                      |                         |
| 26 05 33 13-2469 EA 2" Flexible Steel Screw-in Connector, Plain .....                  | 36.88                     | 10.46                   |
| For Work In Restricted Working Space, Add  | 6.92                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.92                      |                         |
| <b>26 05 33 13-2470 Insulated Screw-In Connector (26 05 33 13-2395)</b>                |                           |                         |
| 26 05 33 13-2471 EA 3/8" Flexible Steel Screw-in Connector, Insulated .....            | 8.00                      | 4.92                    |
| For Work In Restricted Working Space, Add  | 2.08                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.08                      |                         |
| 26 05 33 13-2472 EA 1/2" Flexible Steel Screw-in Connector, Insulated .....            | 8.57                      | 5.54                    |
| For Work In Restricted Working Space, Add  | 2.31                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.31                      |                         |
| 26 05 33 13-2473 EA 3/4" Flexible Steel Screw-in Connector, Insulated .....            | 11.17                     | 6.77                    |
| For Work In Restricted Working Space, Add  | 2.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 2.77                      |                         |
| 26 05 33 13-2474 EA 1" Flexible Steel Screw-in Connector, Insulated .....              | 15.85                     | 7.38                    |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 3.69                      |                         |
| 26 05 33 13-2475 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated .....          | 22.68                     | 8.62                    |
| For Work In Restricted Working Space, Add  | 4.62                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 4.62                      |                         |
| 26 05 33 13-2476 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated .....          | 27.76                     | 9.23                    |
| For Work In Restricted Working Space, Add  | 5.77                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 5.77                      |                         |
| 26 05 33 13-2477 EA 2" Flexible Steel Screw-in Connector, Insulated .....              | 38.54                     | 10.46                   |
| For Work In Restricted Working Space, Add  | 6.92                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 6.92                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 33 13-2478 Screw-In Coupling</b> <small>(26 05 33 13-2395)</small>   |                           |                         |
| 26 05 33 13-2479 EA 1/2" Flexible Steel Screw-in Coupling ..... 8.98  | 8.98                      | 5.54                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.31</i>               |                         |
| 26 05 33 13-2480 EA 3/4" Flexible Steel Screw-in Coupling ..... 11.59   | 11.59                     | 6.77                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.77</i>               |                         |
| <b>26 05 33 13-2481 Flexible To Electrical Metallic Tubing (EMT) Coupling</b> <small>(26 05 33 13-2395)</small>     |                           |                         |
| 26 05 33 13-2482 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling ..... 11.31                    | 11.31                     | 4.92                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.08</i>               |                         |
| 26 05 33 13-2483 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling ..... 15.01                    | 15.01                     | 5.54                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.31</i>               |                         |
| 26 05 33 13-2484 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling ..... 19.64                    | 19.64                     | 6.77                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.77</i>               |                         |
| <b>26 05 33 13-2485 Die Cast Squeeze Type Straight Connector</b> <small>(26 05 33 13-2395)</small>                  |                           |                         |
| 26 05 33 13-2486 EA 3/8" Flexible Straight Connector, Die Cast ..... 7.86   | 7.86                      | 4.92                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.08</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>2.08</i>               |                         |
| 26 05 33 13-2487 EA 1/2" Flexible Straight Connector, Die Cast ..... 8.86   | 8.86                      | 5.54                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.31</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>2.31</i>               |                         |
| 26 05 33 13-2488 EA 3/4" Flexible Straight Connector, Die Cast ..... 10.93  | 10.93                     | 6.77                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.77</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>2.77</i>               |                         |
| 26 05 33 13-2489 EA 1" Flexible Straight Connector, Die Cast ..... 16.10  | 16.10                     | 7.38                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>3.69</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>3.69</i>               |                         |
| 26 05 33 13-2490 EA 1-1/4" Flexible Straight Connector, Die Cast ..... 21.44  | 21.44                     | 8.62                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>4.62</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>4.62</i>               |                         |
| 26 05 33 13-2491 EA 1-1/2" Flexible Straight Connector, Die Cast ..... 28.71  | 28.71                     | 9.23                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>5.77</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>5.77</i>               |                         |
| 26 05 33 13-2492 EA 2" Flexible Straight Connector, Die Cast ..... 36.73  | 36.73                     | 10.46                   |
| <i>For Work In Restricted Working Space, Add</i>  | <i>6.92</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>6.92</i>               |                         |
| <b>26 05 33 13-2493 Die Cast Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-2395)</small>                 |                           |                         |
| 26 05 33 13-2494 EA 3/8" Flexible 90 Degree Connector, Die Cast ..... 10.43   | 10.43                     | 6.15                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.77</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>2.77</i>               |                         |
| 26 05 33 13-2495 EA 1/2" Flexible 90 Degree Connector, Die Cast ..... 12.78   | 12.78                     | 6.77                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>3.23</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>3.23</i>               |                         |
| 26 05 33 13-2496 EA 3/4" Flexible 90 Degree Connector, Die Cast ..... 15.33   | 15.33                     | 7.38                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>3.69</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>3.69</i>               |                         |
| 26 05 33 13-2497 EA 1" Flexible 90 Degree Connector, Die Cast ..... 23.41   | 23.41                     | 8.62                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>4.62</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>4.62</i>               |                         |
| 26 05 33 13-2498 EA 1-1/4" Flexible 90 Degree Connector, Die Cast ..... 32.45                                       | 32.45                     | 9.23                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>5.54</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>5.54</i>               |                         |
| 26 05 33 13-2499 EA 1-1/2" Flexible 90 Degree Connector, Die Cast ..... 49.19                                       | 49.19                     | 10.77                   |
| <i>For Work In Restricted Working Space, Add</i>  | <i>6.92</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>6.92</i>               |                         |
| 26 05 33 13-2500 EA 2" Flexible 90 Degree Connector, Die Cast ..... 58.50   | 58.50                     | 13.23                   |
| <i>For Work In Restricted Working Space, Add</i>  | <i>7.85</i>               |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | <i>7.85</i>               |                         |
| <b>26 05 33 13-2501 Flexible Liquid Tight Non-Metallic Conduit And Connectors</b> <small>(26 05 33 13-2353)</small> |                           |                         |
| <b>26 05 33 13-2502 Flexible Liquid Tight Non-Metallic Conduit</b> <small>(26 05 33 13-2501)</small>                |                           |                         |
| 26 05 33 13-2503 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit ..... 5.11                                      | 5.11                      | 1.68                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>1.27</i>               |                         |
| 26 05 33 13-2504 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit ..... 5.19                                      | 5.19                      | 1.68                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>1.27</i>               |                         |
| 26 05 33 13-2505 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit ..... 6.96                                      | 6.96                      | 2.24                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>1.69</i>               |                         |
| 26 05 33 13-2506 LF 1" Flexible Liquid Tight Non-Metallic Conduit ..... 8.32  | 8.32                      | 2.24                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>1.69</i>               |                         |
| 26 05 33 13-2507 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit ..... 10.53                                   | 10.53                     | 2.82                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.11</i>               |                         |
| 26 05 33 13-2508 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit ..... 13.32                                   | 13.32                     | 3.38                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>2.53</i>               |                         |
| 26 05 33 13-2509 LF 2" Flexible Liquid Tight Non-Metallic Conduit ..... 17.19                                       | 17.19                     | 4.50                    |
| <i>For Work In Restricted Working Space, Add</i>  | <i>3.37</i>               |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 33 13-2510 Liquid Tight Non-Metallic Straight Connector</b> (26 05 33 13-2501)        |                           |                         |
| 26 05 33 13-2511 EA 3/8" Liquid Tight Non-Metallic Straight Connector .....                    | 14.52                     | 4.50                    |
| For Work In Restricted Working Space, Add  | 3.37                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 3.37                      |                         |
| 26 05 33 13-2512 EA 1/2" Liquid Tight Non-Metallic Straight Connector .....                    | 14.52                     | 4.50                    |
| For Work In Restricted Working Space, Add  | 3.37                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 3.37                      |                         |
| 26 05 33 13-2513 EA 3/4" Liquid Tight Non-Metallic Straight Connector .....                    | 17.51                     | 5.06                    |
| For Work In Restricted Working Space, Add  | 3.80                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 3.80                      |                         |
| 26 05 33 13-2514 EA 1" Liquid Tight Non-Metallic Straight Connector .....                      | 21.36                     | 5.62                    |
| For Work In Restricted Working Space, Add  | 4.22                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 4.22                      |                         |
| 26 05 33 13-2515 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector .....                  | 28.56                     | 6.18                    |
| For Work In Restricted Working Space, Add  | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 4.64                      |                         |
| 26 05 33 13-2516 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector .....                  | 35.10                     | 6.74                    |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 5.06                      |                         |
| 26 05 33 13-2517 EA 2" Liquid Tight Non-Metallic Straight Connector .....                      | 53.14                     | 7.88                    |
| For Work In Restricted Working Space, Add  | 5.90                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 5.90                      |                         |
| <b>26 05 33 13-2518 Liquid Tight Non-Metallic 90 Degree Angle Connector</b> (26 05 33 13-2501) |                           |                         |
| 26 05 33 13-2519 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector .....             | 20.80                     | 6.18                    |
| For Work In Restricted Working Space, Add  | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 4.64                      |                         |
| 26 05 33 13-2520 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector .....             | 20.80                     | 6.18                    |
| For Work In Restricted Working Space, Add  | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 4.64                      |                         |
| 26 05 33 13-2521 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector .....             | 25.08                     | 6.74                    |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 5.06                      |                         |
| 26 05 33 13-2522 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector .....               | 34.51                     | 7.88                    |
| For Work In Restricted Working Space, Add  | 5.90                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 5.90                      |                         |
| 26 05 33 13-2523 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector .....           | 35.84                     | 8.44                    |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 6.32                      |                         |
| 26 05 33 13-2524 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector .....           | 54.14                     | 9.00                    |
| For Work In Restricted Working Space, Add  | 6.75                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 6.75                      |                         |
| 26 05 33 13-2525 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector .....               | 71.61                     | 10.12                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 7.59                      |                         |
| <b>26 05 33 13-2526 Liquid Tight Non-Metallic 45 Degree Angle Connector</b> (26 05 33 13-2501) |                           |                         |
| 26 05 33 13-2527 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector .....             | 20.80                     | 6.18                    |
| For Work In Restricted Working Space, Add  | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 4.64                      |                         |
| 26 05 33 13-2528 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....             | 20.80                     | 6.18                    |
| For Work In Restricted Working Space, Add  | 4.64                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 4.64                      |                         |
| 26 05 33 13-2529 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....             | 25.08                     | 6.74                    |
| For Work In Restricted Working Space, Add  | 5.06                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 5.06                      |                         |
| 26 05 33 13-2530 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector .....               | 34.51                     | 7.88                    |
| For Work In Restricted Working Space, Add  | 5.90                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 5.90                      |                         |
| 26 05 33 13-2531 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....           | 35.84                     | 8.44                    |
| For Work In Restricted Working Space, Add  | 6.32                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 6.32                      |                         |
| 26 05 33 13-2532 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....           | 54.14                     | 9.00                    |
| For Work In Restricted Working Space, Add  | 6.75                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 6.75                      |                         |
| 26 05 33 13-2533 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....               | 71.61                     | 10.12                   |
| For Work In Restricted Working Space, Add  | 7.59                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add         | 7.59                      |                         |
| <b>26 05 33 13-2534 Blue ENT Electrical Non-Metallic Tubing</b> (26 05 33 13-2353)             |                           |                         |
| Note: Carlon - FLEX-PLUS.  |                           |                         |
| <b>26 05 33 13-2535 Blue ENT Electrical Non-Metallic Tubing</b> (26 05 33 13-2534)             |                           |                         |
| 26 05 33 13-2536 LF 1/2" Blue ENT Electrical Non-Metallic Tubing .....                         | 6.18                      | 1.84                    |
| For Work In Restricted Working Space, Add  | 1.39                      |                         |
| 26 05 33 13-2537 LF 3/4" Blue ENT Electrical Non-Metallic Tubing .....                         | 8.32                      | 2.46                    |
| For Work In Restricted Working Space, Add  | 1.85                      |                         |
| 26 05 33 13-2538 LF 1" Blue ENT Electrical Non-Metallic Tubing .....                           | 9.66                      | 2.46                    |
| For Work In Restricted Working Space, Add  | 1.85                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 33 13-2539 Terminal Adapter</b> <small>(26 05 33 13-2534)</small>   |                           |                         |
| 26 05 33 13-2540 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....   | 14.86                     | 4.92                    |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 3.69                      |                         |
| 26 05 33 13-2541 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....   | 18.52                     | 5.54                    |
| For Work In Restricted Working Space, Add  | 4.15                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 4.15                      |                         |
| 26 05 33 13-2542 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....   | 21.41                     | 6.15                    |
| For Work In Restricted Working Space, Add  | 4.62                      |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 4.62                      |                         |
| <b>26 05 33 13-2543 Coupling</b> <small>(26 05 33 13-2534)</small>   |                           |                         |
| 26 05 33 13-2544 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....  | 14.53                     | 4.92                    |
| For Work In Restricted Working Space, Add  | 3.69                      |                         |
| 26 05 33 13-2545 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....  | 16.74                     | 5.54                    |
| For Work In Restricted Working Space, Add  | 4.15                      |                         |
| 26 05 33 13-2546 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....  | 19.73                     | 6.15                    |
| For Work In Restricted Working Space, Add  | 4.62                      |                         |
| <b>26 05 33 13-2547 Metallic Conduit Bodies</b> <small>(26 05 33 13-0058)</small>  |                           |                         |
| <b>26 05 33 13-2548 Threaded, Cast Aluminum Conduit Body</b> <small>(26 05 33 13-2547)</small>   |                           |                         |
| Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC) |                           |                         |
| <b>26 05 33 13-2549 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2549)</small>                               |                           |                         |
| 26 05 33 13-2550 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....  | 76.84                     | 26.98                   |
| For Mogul LB, Add  | 3.65                      |                         |
| For Work In Restricted Working Space, Add  | 20.24                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.75                      |                         |
| For Elevated Installation >15' To 20', Add   | 13.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 16.87                     |                         |
| For Elevated Installation >25' To 30', Add   | 23.61                     |                         |
| For Elevated Installation >30' To 35', Add   | 26.99                     |                         |
| For Elevated Installation >35' To 40', Add   | 33.74                     |                         |
| For Elevated Installation >40', Add  | 37.11                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 20.24                     |                         |
| 26 05 33 13-2551 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....  | 90.03                     | 30.92                   |
| For Mogul LB, Add  | 5.68                      |                         |
| For Work In Restricted Working Space, Add  | 23.19                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.73                      |                         |
| For Elevated Installation >15' To 20', Add   | 15.46                     |                         |
| For Elevated Installation >20' To 25', Add   | 19.33                     |                         |
| For Elevated Installation >25' To 30', Add   | 27.06                     |                         |
| For Elevated Installation >30' To 35', Add   | 30.92                     |                         |
| For Elevated Installation >35' To 40', Add   | 38.65                     |                         |
| For Elevated Installation >40', Add  | 42.52                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 23.19                     |                         |
| 26 05 33 13-2552 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....  | 108.07                    | 35.98                   |
| For Mogul LB, Add  | 9.09                      |                         |
| For Work In Restricted Working Space, Add  | 26.99                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.00                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.99                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.49                     |                         |
| For Elevated Installation >25' To 30', Add   | 31.48                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 44.98                     |                         |
| For Elevated Installation >40', Add  | 49.47                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 26.99                     |                         |
| 26 05 33 13-2553 EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....  | 129.67                    | 41.04                   |
| For Mogul LB, Add  | 15.16                     |                         |
| For Work In Restricted Working Space, Add  | 30.78                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.26                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.52                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.65                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.91                     |                         |
| For Elevated Installation >30' To 35', Add   | 41.04                     |                         |
| For Elevated Installation >35' To 40', Add   | 51.31                     |                         |
| For Elevated Installation >40', Add  | 56.44                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 30.78                     |                         |
| 26 05 33 13-2554 EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....  | 147.36                    | 44.98                   |
| For Mogul LB, Add  | 20.56                     |                         |
| For Work In Restricted Working Space, Add  | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.23                     |                         |
| For Elevated Installation >40', Add  | 61.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 33.74                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-2555 | EA  | 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                                  | 191.32                 | 53.97                |
|          |         |     | <i>For Mogul LB, Add</i>   | 35.55                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 40.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 13.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 26.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 33.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 47.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 53.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 67.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 74.21                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 40.48                  |                      |
| 26 05 33 | 13-2556 | EA  | 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                              | 314.55                 | 75.90                |
|          |         |     | <i>For Mogul LB, Add</i>   | 84.12                  |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 56.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 18.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 37.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 47.44                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 66.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 75.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 94.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 104.36                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 56.92                  |                      |
| 26 05 33 | 13-2557 | EA  | 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                                  | 414.15                 | 101.19               |
|          |         |     | <i>For Mogul LB, Add</i>   | 108.21                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 75.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 50.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 88.55                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 101.20                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 126.50                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 139.15                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 75.90                  |                      |
| 26 05 33 | 13-2558 | EA  | 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                              | 546.71                 | 126.49               |
|          |         |     | <i>For Mogul LB, Add</i>   | 157.04                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 94.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 31.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 79.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 110.68                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 126.50                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 158.12                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 173.93                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 94.87                  |                      |
| 26 05 33 | 13-2559 | EA  | 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                                  | 705.36                 | 154.05               |
|          |         |     | <i>For Mogul LB, Add</i>   | 220.93                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 115.53                 |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 38.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 77.02                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 96.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 134.79                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 154.04                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 192.56                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 211.81                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 115.53                 |                      |
| 26 05 33 | 13-2560 |     | Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <sup>(26 05 33 13-2548)</sup> |                        |                      |
| 26 05 33 | 13-2561 | EA  | 1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                          | 77.98                  | 26.98                |
|          |         |     | <i>For Mogul LB, Add</i>   | 4.51                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 20.24                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.75                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 13.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 16.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 23.61                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 26.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 37.11                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 20.24                  |                      |
| 26 05 33 | 13-2562 | EA  | 3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                          | 91.14                  | 30.92                |
|          |         |     | <i>For Mogul LB, Add</i>   | 6.52                   |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 19.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 27.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 38.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 42.52                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 23.19                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2563 EA 1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....     | 110.31                    | 35.98                   |
| For Mogul LB, Add   | 10.77                     |                         |
| For Work In Restricted Working Space, Add   | 26.99                     |                         |
| For Elevated Installation >10' To 15', Add  | 9.00                      |                         |
| For Elevated Installation >15' To 20', Add  | 17.99                     |                         |
| For Elevated Installation >20' To 25', Add  | 22.49                     |                         |
| For Elevated Installation >25' To 30', Add  | 31.48                     |                         |
| For Elevated Installation >30' To 35', Add  | 35.98                     |                         |
| For Elevated Installation >35' To 40', Add  | 44.98                     |                         |
| For Elevated Installation >40', Add   | 49.47                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 26.99                     |                         |
| 26 05 33 13-2564 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover ..... | 132.40                    | 41.04                   |
| For Mogul LB, Add   | 17.21                     |                         |
| For Work In Restricted Working Space, Add   | 30.78                     |                         |
| For Elevated Installation >10' To 15', Add  | 10.26                     |                         |
| For Elevated Installation >15' To 20', Add  | 20.52                     |                         |
| For Elevated Installation >20' To 25', Add  | 25.65                     |                         |
| For Elevated Installation >25' To 30', Add  | 35.91                     |                         |
| For Elevated Installation >30' To 35', Add  | 41.04                     |                         |
| For Elevated Installation >35' To 40', Add  | 51.31                     |                         |
| For Elevated Installation >40', Add   | 56.44                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 30.78                     |                         |
| 26 05 33 13-2565 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover ..... | 152.01                    | 44.98                   |
| For Mogul LB, Add   | 24.05                     |                         |
| For Work In Restricted Working Space, Add   | 33.74                     |                         |
| For Elevated Installation >10' To 15', Add  | 11.25                     |                         |
| For Elevated Installation >15' To 20', Add  | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add  | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add  | 39.36                     |                         |
| For Elevated Installation >30' To 35', Add  | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add  | 56.23                     |                         |
| For Elevated Installation >40', Add   | 61.85                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 33.74                     |                         |
| 26 05 33 13-2566 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....     | 201.29                    | 53.97                   |
| For Mogul LB, Add   | 43.02                     |                         |
| For Work In Restricted Working Space, Add   | 40.48                     |                         |
| For Elevated Installation >10' To 15', Add  | 13.49                     |                         |
| For Elevated Installation >15' To 20', Add  | 26.99                     |                         |
| For Elevated Installation >20' To 25', Add  | 33.73                     |                         |
| For Elevated Installation >25' To 30', Add  | 47.23                     |                         |
| For Elevated Installation >30' To 35', Add  | 53.97                     |                         |
| For Elevated Installation >35' To 40', Add  | 67.47                     |                         |
| For Elevated Installation >40', Add   | 74.21                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 40.48                     |                         |
| 26 05 33 13-2567 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover ..... | 309.52                    | 75.90                   |
| For Mogul LB, Add   | 80.35                     |                         |
| For Work In Restricted Working Space, Add   | 56.92                     |                         |
| For Elevated Installation >10' To 15', Add  | 18.97                     |                         |
| For Elevated Installation >15' To 20', Add  | 37.95                     |                         |
| For Elevated Installation >20' To 25', Add  | 47.44                     |                         |
| For Elevated Installation >25' To 30', Add  | 66.41                     |                         |
| For Elevated Installation >30' To 35', Add  | 75.90                     |                         |
| For Elevated Installation >35' To 40', Add  | 94.87                     |                         |
| For Elevated Installation >40', Add   | 104.36                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 56.92                     |                         |
| 26 05 33 13-2568 EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....     | 397.23                    | 101.19                  |
| For Mogul LB, Add   | 95.52                     |                         |
| For Work In Restricted Working Space, Add   | 75.90                     |                         |
| For Elevated Installation >10' To 15', Add  | 25.30                     |                         |
| For Elevated Installation >15' To 20', Add  | 50.60                     |                         |
| For Elevated Installation >20' To 25', Add  | 63.25                     |                         |
| For Elevated Installation >25' To 30', Add  | 88.55                     |                         |
| For Elevated Installation >30' To 35', Add  | 101.20                    |                         |
| For Elevated Installation >35' To 40', Add  | 126.50                    |                         |
| For Elevated Installation >40', Add   | 139.15                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 75.90                     |                         |
| 26 05 33 13-2569 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover ..... | 561.12                    | 126.49                  |
| For Mogul LB, Add   | 167.85                    |                         |
| For Work In Restricted Working Space, Add   | 94.87                     |                         |
| For Elevated Installation >10' To 15', Add  | 31.62                     |                         |
| For Elevated Installation >15' To 20', Add  | 63.25                     |                         |
| For Elevated Installation >20' To 25', Add  | 79.06                     |                         |
| For Elevated Installation >25' To 30', Add  | 110.68                    |                         |
| For Elevated Installation >30' To 35', Add  | 126.50                    |                         |
| For Elevated Installation >35' To 40', Add  | 158.12                    |                         |
| For Elevated Installation >40', Add   | 173.93                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                  | 94.87                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|--|------------------------|----------------------|
| 26 05 33 | 13-2570 | EA  | 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover                                  | 734.83                 | 154.05               |
|          |         |     | <i>For Mogul LB, Add</i>   | 243.03                 |                      |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 115.53                 |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 38.51                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 77.02                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 96.28                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 134.79                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 154.04                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 192.56                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 211.81                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 115.53                 |                      |
| 26 05 33 | 13-2571 |     | <b>Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2548)</small> |                        |                      |
| 26 05 33 | 13-2572 | EA  | 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                     | 89.73                  | 30.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 19.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 27.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 38.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 42.52                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 23.19                  |                      |
| 26 05 33 | 13-2573 | EA  | 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                     | 105.95                 | 35.98                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 26.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.00                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 31.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 35.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 49.47                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 26.99                  |                      |
| 26 05 33 | 13-2574 | EA  | 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                       | 121.04                 | 39.36                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 29.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 9.84                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 19.68                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 24.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 34.44                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 39.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 49.20                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 54.11                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 29.52                  |                      |
| 26 05 33 | 13-2575 | EA  | 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                   | 146.78                 | 44.98                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 11.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 39.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 56.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 61.85                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 33.74                  |                      |
| 26 05 33 | 13-2576 | EA  | 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                   | 168.30                 | 49.47                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 37.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 12.37                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 24.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 43.29                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 49.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 61.85                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 68.03                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 37.11                  |                      |
| 26 05 33 | 13-2577 | EA  | 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                       | 221.08                 | 57.91                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 43.43                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 14.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 28.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 36.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 50.67                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 57.91                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 72.39                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 79.62                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 43.43                  |                      |
| 26 05 33 | 13-2578 | EA  | 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover                                   | 345.65                 | 84.33                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>   | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>   | 21.08                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>   | 42.16                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>   | 52.71                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>   | 73.79                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>   | 84.33                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>   | 105.41                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>  | 115.95                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 63.25                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2579 EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....                             | 446.92                    | 109.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 82.22                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 27.41                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 54.82                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 68.52                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 95.93                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 109.63                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 137.04                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 150.74                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 82.22                     |                         |
| 26 05 33 13-2580 EA 3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....                         | 696.31                    | 134.93                  |
| <i>For Work In Restricted Working Space, Add</i>  | 101.20                    |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 33.73                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 67.47                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 84.33                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 118.07                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 134.93                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 168.67                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 185.53                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 101.20                    |                         |
| 26 05 33 13-2581 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....                             | 801.45                    | 162.48                  |
| <i>For Work In Restricted Working Space, Add</i>  | 121.86                    |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 40.62                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 81.24                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 101.55                    |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 142.17                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 162.48                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 203.10                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 223.40                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 121.86                    |                         |
| <b>26 05 33 13-2582 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2548)</small> |                           |                         |
| 26 05 33 13-2583 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....                             | 78.22                     | 26.98                   |
| <i>For Work In Restricted Working Space, Add</i>  | 20.24                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.75                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 13.49                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 16.87                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 23.61                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 26.99                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 33.74                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 37.11                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 20.24                     |                         |
| 26 05 33 13-2584 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....                             | 90.36                     | 30.92                   |
| <i>For Work In Restricted Working Space, Add</i>  | 23.19                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.73                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.46                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.33                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.06                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 30.92                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.65                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 42.52                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 23.19                     |                         |
| 26 05 33 13-2585 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....                               | 108.00                    | 35.42                   |
| <i>For Work In Restricted Working Space, Add</i>  | 26.57                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.86                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.71                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.14                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.99                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.42                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 44.28                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 48.70                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 26.57                     |                         |
| 26 05 33 13-2586 EA 1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....                           | 131.32                    | 41.04                   |
| <i>For Work In Restricted Working Space, Add</i>  | 30.78                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.26                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.52                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.65                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.91                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 41.04                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 51.31                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 56.44                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 30.78                     |                         |
| 26 05 33 13-2587 EA 1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....                           | 146.60                    | 44.98                   |
| <i>For Work In Restricted Working Space, Add</i>  | 33.74                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.25                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 22.49                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 28.11                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 39.36                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 44.98                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 56.23                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 61.85                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 33.74                     |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM   | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|---|---|------------------------|----------------------|
| 26 05 33 | 13-2588 | EA  | 2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....                      | 191.40                 | 53.97                |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 40.48                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.49                  |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.99                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.73                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 47.23                  |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.97                  |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 67.47                  |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 74.21                  |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 40.48                  |                      |
| 26 05 33 | 13-2589 | EA  | 2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....                  | 305.28                 | 75.90                |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 56.92                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 18.97                  |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 37.95                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 47.44                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 66.41                  |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 75.90                  |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 94.87                  |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 104.36                 |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 56.92                  |                      |
| 26 05 33 | 13-2590 | EA  | 3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....                      | 394.53                 | 101.19               |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 75.90                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 25.30                  |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 50.60                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 63.25                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 88.55                  |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 101.20                 |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 126.50                 |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 139.15                 |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 75.90                  |                      |
| 26 05 33 | 13-2591 | EA  | 3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....                  | 552.46                 | 126.49               |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 94.87                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 31.62                  |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 63.25                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 79.06                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 110.68                 |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 126.50                 |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 158.12                 |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 173.93                 |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 94.87                  |                      |
| 26 05 33 | 13-2592 | EA  | 4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....                      | 708.07                 | 154.05               |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 115.53                 |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 38.51                  |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 77.02                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 96.28                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 134.79                 |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 154.04                 |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 192.56                 |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 211.81                 |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 115.53                 |                      |
| 26 05 33 | 13-2593 | <b>Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33)</small> |   |                        |                      |
|          |         |   | <small>13-2548)</small>   |                        |                      |
| 26 05 33 | 13-2594 | EA  | 1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....                   | 103.81                 | 35.42                |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 26.57                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 8.86                   |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.71                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.14                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 30.99                  |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.42                  |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 44.28                  |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 48.70                  |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 26.57                  |                      |
| 26 05 33 | 13-2595 | EA  | 3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....                   | 119.03                 | 39.36                |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 29.52                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.84                   |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.68                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.60                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 34.44                  |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 39.36                  |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 49.20                  |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 54.11                  |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 29.52                  |                      |
| 26 05 33 | 13-2596 | EA  | 1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....                     | 143.14                 | 43.29                |
|          |         |   | <i>For Work In Restricted Working Space, Add</i>  | 32.47                  |                      |
|          |         |   | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.82                  |                      |
|          |         |   | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 21.65                  |                      |
|          |         |   | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 27.06                  |                      |
|          |         |   | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 37.88                  |                      |
|          |         |   | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 43.29                  |                      |
|          |         |   | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 54.12                  |                      |
|          |         |   | <i>For Elevated Installation &gt;40', Add</i>   | 59.53                  |                      |
|          |         |   | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 32.47                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 05 33 13-2597 EA 1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 164.80<br>37.11<br>12.37<br>24.74<br>30.92<br>43.29<br>49.48<br>61.85<br>68.03<br>37.11        | 49.47                   |
| 26 05 33 13-2598 EA 1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 206.93<br>40.48<br>13.49<br>26.99<br>33.73<br>47.23<br>53.97<br>67.47<br>74.21<br>40.48        | 53.97                   |
| 26 05 33 13-2599 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 250.76<br>49.76<br>16.59<br>33.17<br>41.46<br>58.05<br>66.34<br>82.93<br>91.22<br>49.76        | 66.34                   |
| 26 05 33 13-2600 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 453.82<br>72.95<br>24.32<br>48.63<br>60.79<br>85.11<br>97.26<br>121.58<br>133.74<br>72.95      | 97.26                   |
| 26 05 33 13-2601 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 563.03<br>94.87<br>31.62<br>63.25<br>79.06<br>110.68<br>126.50<br>158.12<br>173.93<br>94.87    | 126.49                  |
| 26 05 33 13-2602 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 791.56<br>118.07<br>39.36<br>78.71<br>98.39<br>137.74<br>157.42<br>196.78<br>216.45<br>118.07  | 156.29                  |
| 26 05 33 13-2603 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 955.00<br>140.83<br>46.94<br>93.89<br>117.36<br>164.30<br>187.78<br>234.72<br>258.19<br>140.83 | 187.78                  |
| 26 05 33 13-2604 <b>Threaded, Malleable Iron Conduit Body</b> <small>(26 05 33 13-2547)</small><br>Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)   |  |                         |
| 26 05 33 13-2605 <b>Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b> <small>(26 05 33 13-2604)</small>   |  |                         |
| 26 05 33 13-2606 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 80.04<br>20.24<br>6.75<br>13.49<br>16.87<br>23.61<br>26.99<br>33.74<br>37.11<br>20.24          | 26.98                   |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 05 33 | 13-2607 | EA  | 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                  | 92.70                  | 30.92                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 23.19                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.73                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.46                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.32                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.05                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 30.92                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 42.51                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 23.19                  |                      |
| 26 05 33 | 13-2608 | EA  | 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                    | 112.91                 | 35.98                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 26.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.00                   |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 17.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 31.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 35.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 49.47                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 26.99                  |                      |
| 26 05 33 | 13-2609 | EA  | 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                | 143.79                 | 41.04                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 30.78                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 10.26                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 20.52                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 25.65                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 35.91                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 41.04                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 51.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 56.43                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 30.78                  |                      |
| 26 05 33 | 13-2610 | EA  | 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                | 162.97                 | 44.98                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 33.74                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 22.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 28.11                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 39.36                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 44.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 56.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 61.85                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 33.74                  |                      |
| 26 05 33 | 13-2611 | EA  | 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                    | 219.48                 | 53.97                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 40.48                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 13.49                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 26.99                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 33.73                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 47.23                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 53.97                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 67.47                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 74.21                  |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 40.48                  |                      |
| 26 05 33 | 13-2612 | EA  | 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                | 362.82                 | 75.90                |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 56.93                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 18.98                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 37.95                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 47.44                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 66.41                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 75.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 94.88                  |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 104.36                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 56.93                  |                      |
| 26 05 33 | 13-2613 | EA  | 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                    | 511.18                 | 101.19               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 75.90                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 25.30                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 50.60                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 88.55                  |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 101.20                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 126.50                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 139.15                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 75.90                  |                      |
| 26 05 33 | 13-2614 | EA  | 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....                | 698.47                 | 126.49               |
|          |         |     | <i>For Work In Restricted Working Space, Add</i>  | 94.87                  |                      |
|          |         |     | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 31.62                  |                      |
|          |         |     | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 63.25                  |                      |
|          |         |     | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 79.06                  |                      |
|          |         |     | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 110.68                 |                      |
|          |         |     | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 126.50                 |                      |
|          |         |     | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 158.12                 |                      |
|          |         |     | <i>For Elevated Installation &gt;40', Add</i>   | 173.93                 |                      |
|          |         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 94.87                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2615 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....           | 837.11                    | 154.05                  |
| <i>For Work In Restricted Working Space, Add</i>  | 115.54                    |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 38.51                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 77.02                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 96.28                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 134.79                    |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 154.05                    |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 192.56                    |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 211.82                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 115.54                    |                         |
| <b>26 05 33 13-2616 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b>         |                           |                         |
| <small>(26 05 33 13-2604)</small>   |                           |                         |
| 26 05 33 13-2617 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....   | 82.94                     | 26.98                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 20.24                     |                         |
| 26 05 33 13-2618 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....   | 93.55                     | 30.92                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 23.19                     |                         |
| 26 05 33 13-2619 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 117.35                    | 35.98                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 26.99                     |                         |
| 26 05 33 13-2620 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 146.76                    | 41.04                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 30.78                     |                         |
| 26 05 33 13-2621 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 166.61                    | 44.98                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 33.74                     |                         |
| 26 05 33 13-2622 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 212.01                    | 53.97                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 40.48                     |                         |
| 26 05 33 13-2623 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 321.32                    | 75.90                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 56.93                     |                         |
| 26 05 33 13-2624 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 436.56                    | 101.19                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 75.90                     |                         |
| 26 05 33 13-2625 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 742.42                    | 126.49                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 94.87                     |                         |
| 26 05 33 13-2626 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 869.52                    | 154.05                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 115.54                    |                         |
| <b>26 05 33 13-2627 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover</b>              |                           |                         |
| <small>(26 05 33 13-2604)</small>   |                           |                         |
| 26 05 33 13-2628 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....        | 98.04                     | 30.92                   |
| <i>For Work In Restricted Working Space, Add</i>  | 23.19                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.73                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 15.46                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 19.33                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 27.06                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 30.92                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 38.65                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 42.52                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 23.19                     |                         |
| 26 05 33 13-2629 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....        | 115.62                    | 35.98                   |
| <i>For Work In Restricted Working Space, Add</i>  | 27.41                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.14                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 18.27                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 22.84                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 31.98                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 36.54                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 45.68                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 50.25                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 27.41                     |                         |
| 26 05 33 13-2630 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....          | 135.08                    | 39.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 29.52                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 9.84                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 19.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 24.60                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 34.44                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 39.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 49.20                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 54.11                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 29.52                     |                         |
| 26 05 33 13-2631 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....      | 167.88                    | 44.98                   |
| <i>For Work In Restricted Working Space, Add</i>  | 33.31                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 11.10                     |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 22.21                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 27.76                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 38.86                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 44.41                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 55.52                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 61.07                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>           | 33.31                     |                         |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|----------|---------|-----|---|--|----------------------|
| 26 05 33 | 13-2632 | EA  | 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 192.01<br>37.11<br>12.37<br>24.74<br>30.92<br>43.29<br>49.48<br>61.85<br>68.03<br>37.11        | 49.47                |
| 26 05 33 | 13-2633 | EA  | 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 251.81<br>43.43<br>14.48<br>28.95<br>36.19<br>50.67<br>57.91<br>72.39<br>79.62<br>43.43        | 57.91                |
| 26 05 33 | 13-2634 | EA  | 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 323.11<br>63.25<br>21.08<br>42.16<br>52.71<br>73.79<br>84.33<br>105.41<br>115.95<br>63.25      | 84.33                |
| 26 05 33 | 13-2635 | EA  | 3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 460.68<br>82.22<br>27.41<br>54.82<br>68.52<br>95.93<br>109.63<br>137.04<br>150.74<br>82.22     | 109.63               |
| 26 05 33 | 13-2636 | EA  | 3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover .....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 783.80<br>101.20<br>33.73<br>67.47<br>84.33<br>118.07<br>134.93<br>168.67<br>185.53<br>101.20  | 134.93               |
| 26 05 33 | 13-2637 | EA  | 4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 909.54<br>122.28<br>40.76<br>81.52<br>101.90<br>142.66<br>163.04<br>203.80<br>224.18<br>122.28 | 162.48               |
| 26 05 33 | 13-2638 |     | <b>Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b> <small>(26 05 33 13-2604)</small>   |  |                      |
| 26 05 33 | 13-2639 | EA  | 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 80.25<br>20.24<br>6.75<br>13.49<br>16.87<br>23.61<br>26.99<br>33.74<br>37.11<br>20.24          | 26.98                |
| 26 05 33 | 13-2640 | EA  | 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Elevated Installation &gt;10' To 15', Add</i><br><i>For Elevated Installation &gt;15' To 20', Add</i><br><i>For Elevated Installation &gt;20' To 25', Add</i><br><i>For Elevated Installation &gt;25' To 30', Add</i><br><i>For Elevated Installation &gt;30' To 35', Add</i><br><i>For Elevated Installation &gt;35' To 40', Add</i><br><i>For Elevated Installation &gt;40', Add</i><br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 96.47<br>23.19<br>7.73<br>15.46<br>19.33<br>27.06<br>30.92<br>38.65<br>42.52<br>23.19          | 30.92                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2641 EA 1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 112.55                    | 35.42                   |
| For Work In Restricted Working Space, Add  | 26.57                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.86                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.71                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 44.28                     |                         |
| For Elevated Installation >40', Add  | 48.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 26.57                     |                         |
| 26 05 33 13-2642 EA 1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 149.27                    | 41.04                   |
| For Work In Restricted Working Space, Add  | 30.78                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.26                     |                         |
| For Elevated Installation >15' To 20', Add   | 20.52                     |                         |
| For Elevated Installation >20' To 25', Add   | 25.65                     |                         |
| For Elevated Installation >25' To 30', Add   | 35.91                     |                         |
| For Elevated Installation >30' To 35', Add   | 41.04                     |                         |
| For Elevated Installation >35' To 40', Add   | 51.31                     |                         |
| For Elevated Installation >40', Add  | 56.44                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 30.78                     |                         |
| 26 05 33 13-2643 EA 1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 173.23                    | 44.98                   |
| For Work In Restricted Working Space, Add  | 33.73                     |                         |
| For Elevated Installation >10' To 15', Add   | 11.24                     |                         |
| For Elevated Installation >15' To 20', Add   | 22.49                     |                         |
| For Elevated Installation >20' To 25', Add   | 28.11                     |                         |
| For Elevated Installation >25' To 30', Add   | 39.35                     |                         |
| For Elevated Installation >30' To 35', Add   | 44.98                     |                         |
| For Elevated Installation >35' To 40', Add   | 56.22                     |                         |
| For Elevated Installation >40', Add  | 61.84                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 33.73                     |                         |
| 26 05 33 13-2644 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 222.42                    | 53.97                   |
| For Work In Restricted Working Space, Add  | 40.48                     |                         |
| For Elevated Installation >10' To 15', Add   | 13.49                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.99                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.73                     |                         |
| For Elevated Installation >25' To 30', Add   | 47.23                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.97                     |                         |
| For Elevated Installation >35' To 40', Add   | 67.47                     |                         |
| For Elevated Installation >40', Add  | 74.21                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 40.48                     |                         |
| 26 05 33 13-2645 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 506.15                    | 142.38                  |
| For Work In Restricted Working Space, Add  | 106.73                    |                         |
| For Elevated Installation >10' To 15', Add   | 35.58                     |                         |
| For Elevated Installation >15' To 20', Add   | 71.16                     |                         |
| For Elevated Installation >20' To 25', Add   | 88.95                     |                         |
| For Elevated Installation >25' To 30', Add   | 124.52                    |                         |
| For Elevated Installation >30' To 35', Add   | 142.31                    |                         |
| For Elevated Installation >35' To 40', Add   | 177.89                    |                         |
| For Elevated Installation >40', Add  | 195.68                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 106.73                    |                         |
| 26 05 33 13-2646 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 467.90                    | 101.19                  |
| For Work In Restricted Working Space, Add  | 75.90                     |                         |
| For Elevated Installation >10' To 15', Add   | 25.30                     |                         |
| For Elevated Installation >15' To 20', Add   | 50.60                     |                         |
| For Elevated Installation >20' To 25', Add   | 63.25                     |                         |
| For Elevated Installation >25' To 30', Add   | 88.55                     |                         |
| For Elevated Installation >30' To 35', Add   | 101.20                    |                         |
| For Elevated Installation >35' To 40', Add   | 126.50                    |                         |
| For Elevated Installation >40', Add  | 139.15                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 75.90                     |                         |
| 26 05 33 13-2647 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover..... | 742.42                    | 126.49                  |
| For Work In Restricted Working Space, Add  | 94.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 31.62                     |                         |
| For Elevated Installation >15' To 20', Add   | 63.25                     |                         |
| For Elevated Installation >20' To 25', Add   | 79.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 110.68                    |                         |
| For Elevated Installation >30' To 35', Add   | 126.50                    |                         |
| For Elevated Installation >35' To 40', Add   | 158.12                    |                         |
| For Elevated Installation >40', Add  | 173.93                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 94.87                     |                         |
| 26 05 33 13-2648 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....     | 869.49                    | 154.05                  |
| For Work In Restricted Working Space, Add  | 115.53                    |                         |
| For Elevated Installation >10' To 15', Add   | 38.51                     |                         |
| For Elevated Installation >15' To 20', Add   | 77.02                     |                         |
| For Elevated Installation >20' To 25', Add   | 96.27                     |                         |
| For Elevated Installation >25' To 30', Add   | 134.78                    |                         |
| For Elevated Installation >30' To 35', Add   | 154.04                    |                         |
| For Elevated Installation >35' To 40', Add   | 192.55                    |                         |
| For Elevated Installation >40', Add  | 211.80                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add           | 115.53                    |                         |

26 05 33 13-2649 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2650 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....   | 111.55                    | 35.42                   |
| For Work In Restricted Working Space, Add  | 26.57                     |                         |
| For Elevated Installation >10' To 15', Add   | 8.86                      |                         |
| For Elevated Installation >15' To 20', Add   | 17.71                     |                         |
| For Elevated Installation >20' To 25', Add   | 22.14                     |                         |
| For Elevated Installation >25' To 30', Add   | 30.99                     |                         |
| For Elevated Installation >30' To 35', Add   | 35.42                     |                         |
| For Elevated Installation >35' To 40', Add   | 44.28                     |                         |
| For Elevated Installation >40', Add  | 48.70                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 26.57                     |                         |
| 26 05 33 13-2651 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....   | 122.25                    | 39.36                   |
| For Work In Restricted Working Space, Add  | 29.52                     |                         |
| For Elevated Installation >10' To 15', Add   | 9.84                      |                         |
| For Elevated Installation >15' To 20', Add   | 19.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 24.60                     |                         |
| For Elevated Installation >25' To 30', Add   | 34.44                     |                         |
| For Elevated Installation >30' To 35', Add   | 39.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 49.20                     |                         |
| For Elevated Installation >40', Add  | 54.11                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 29.52                     |                         |
| 26 05 33 13-2652 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....     | 140.97                    | 43.29                   |
| For Work In Restricted Working Space, Add  | 32.47                     |                         |
| For Elevated Installation >10' To 15', Add   | 10.82                     |                         |
| For Elevated Installation >15' To 20', Add   | 21.65                     |                         |
| For Elevated Installation >20' To 25', Add   | 27.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 37.88                     |                         |
| For Elevated Installation >30' To 35', Add   | 43.29                     |                         |
| For Elevated Installation >35' To 40', Add   | 54.12                     |                         |
| For Elevated Installation >40', Add  | 59.53                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 32.47                     |                         |
| 26 05 33 13-2653 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover ..... | 166.92                    | 49.47                   |
| For Work In Restricted Working Space, Add  | 37.11                     |                         |
| For Elevated Installation >10' To 15', Add   | 12.37                     |                         |
| For Elevated Installation >15' To 20', Add   | 24.74                     |                         |
| For Elevated Installation >20' To 25', Add   | 30.92                     |                         |
| For Elevated Installation >25' To 30', Add   | 43.29                     |                         |
| For Elevated Installation >30' To 35', Add   | 49.48                     |                         |
| For Elevated Installation >35' To 40', Add   | 61.85                     |                         |
| For Elevated Installation >40', Add  | 68.03                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 37.11                     |                         |
| 26 05 33 13-2654 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover ..... | 191.33                    | 53.97                   |
| For Work In Restricted Working Space, Add  | 40.48                     |                         |
| For Elevated Installation >10' To 15', Add   | 13.49                     |                         |
| For Elevated Installation >15' To 20', Add   | 26.99                     |                         |
| For Elevated Installation >20' To 25', Add   | 33.73                     |                         |
| For Elevated Installation >25' To 30', Add   | 47.23                     |                         |
| For Elevated Installation >30' To 35', Add   | 53.97                     |                         |
| For Elevated Installation >35' To 40', Add   | 67.47                     |                         |
| For Elevated Installation >40', Add  | 74.21                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 40.48                     |                         |
| 26 05 33 13-2655 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....     | 264.04                    | 66.34                   |
| For Work In Restricted Working Space, Add  | 49.76                     |                         |
| For Elevated Installation >10' To 15', Add   | 16.59                     |                         |
| For Elevated Installation >15' To 20', Add   | 33.17                     |                         |
| For Elevated Installation >20' To 25', Add   | 41.46                     |                         |
| For Elevated Installation >25' To 30', Add   | 58.05                     |                         |
| For Elevated Installation >30' To 35', Add   | 66.34                     |                         |
| For Elevated Installation >35' To 40', Add   | 82.93                     |                         |
| For Elevated Installation >40', Add  | 91.22                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 49.76                     |                         |
| 26 05 33 13-2656 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover ..... | 418.47                    | 97.26                   |
| For Work In Restricted Working Space, Add  | 72.95                     |                         |
| For Elevated Installation >10' To 15', Add   | 24.32                     |                         |
| For Elevated Installation >15' To 20', Add   | 48.63                     |                         |
| For Elevated Installation >20' To 25', Add   | 60.79                     |                         |
| For Elevated Installation >25' To 30', Add   | 85.11                     |                         |
| For Elevated Installation >30' To 35', Add   | 97.26                     |                         |
| For Elevated Installation >35' To 40', Add   | 121.58                    |                         |
| For Elevated Installation >40', Add  | 133.74                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 72.95                     |                         |
| 26 05 33 13-2657 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....     | 607.57                    | 126.49                  |
| For Work In Restricted Working Space, Add  | 94.87                     |                         |
| For Elevated Installation >10' To 15', Add   | 31.62                     |                         |
| For Elevated Installation >15' To 20', Add   | 63.25                     |                         |
| For Elevated Installation >20' To 25', Add   | 79.06                     |                         |
| For Elevated Installation >25' To 30', Add   | 110.68                    |                         |
| For Elevated Installation >30' To 35', Add   | 126.50                    |                         |
| For Elevated Installation >35' To 40', Add   | 158.12                    |                         |
| For Elevated Installation >40', Add  | 173.93                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add             | 94.87                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 13-2658 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....                   | 894.52                    | 156.29                  |
| For Work In Restricted Working Space, Add  | 117.22                    |                         |
| For Elevated Installation >10' To 15', Add   | 39.07                     |                         |
| For Elevated Installation >15' To 20', Add   | 78.15                     |                         |
| For Elevated Installation >20' To 25', Add   | 97.68                     |                         |
| For Elevated Installation >25' To 30', Add   | 136.76                    |                         |
| For Elevated Installation >30' To 35', Add   | 156.29                    |                         |
| For Elevated Installation >35' To 40', Add   | 195.37                    |                         |
| For Elevated Installation >40', Add  | 214.90                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 117.22                    |                         |
| 26 05 33 13-2659 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....                       | 1,004.34                  | 187.78                  |
| For Work In Restricted Working Space, Add  | 140.83                    |                         |
| For Elevated Installation >10' To 15', Add   | 46.94                     |                         |
| For Elevated Installation >15' To 20', Add   | 93.89                     |                         |
| For Elevated Installation >20' To 25', Add   | 117.36                    |                         |
| For Elevated Installation >25' To 30', Add   | 164.30                    |                         |
| For Elevated Installation >30' To 35', Add   | 187.78                    |                         |
| For Elevated Installation >35' To 40', Add   | 234.72                    |                         |
| For Elevated Installation >40', Add  | 258.19                    |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 140.83                    |                         |
| <br>   |                           |                         |
| 26 05 33 13-2660 Set Screw, Cast Aluminum Conduit Body <small>(26 05 33 13-2547)</small>                             |                           |                         |
| Note: For use with Electrical Metallic Tubing (EMT)  |                           |                         |
| 26 05 33 13-2661 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2660)</small> |                           |                         |
| 26 05 33 13-2662 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                     | 37.61                     | 10.68                   |
| For Work In Restricted Working Space, Add  | 8.01                      |                         |
| For Elevated Installation >10' To 15', Add   | 2.67                      |                         |
| For Elevated Installation >15' To 20', Add   | 5.34                      |                         |
| For Elevated Installation >20' To 25', Add   | 6.68                      |                         |
| For Elevated Installation >25' To 30', Add   | 9.35                      |                         |
| For Elevated Installation >30' To 35', Add   | 10.68                     |                         |
| For Elevated Installation >35' To 40', Add   | 13.35                     |                         |
| For Elevated Installation >40', Add  | 14.69                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 8.01                      |                         |
| 26 05 33 13-2663 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                     | 48.25                     | 14.06                   |
| For Work In Restricted Working Space, Add  | 10.54                     |                         |
| For Elevated Installation >10' To 15', Add   | 3.51                      |                         |
| For Elevated Installation >15' To 20', Add   | 7.03                      |                         |
| For Elevated Installation >20' To 25', Add   | 8.79                      |                         |
| For Elevated Installation >25' To 30', Add   | 12.30                     |                         |
| For Elevated Installation >30' To 35', Add   | 14.06                     |                         |
| For Elevated Installation >35' To 40', Add   | 17.57                     |                         |
| For Elevated Installation >40', Add  | 19.33                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 10.54                     |                         |
| 26 05 33 13-2664 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                       | 64.74                     | 17.42                   |
| For Work In Restricted Working Space, Add  | 13.07                     |                         |
| For Elevated Installation >10' To 15', Add   | 4.36                      |                         |
| For Elevated Installation >15' To 20', Add   | 8.71                      |                         |
| For Elevated Installation >20' To 25', Add   | 10.89                     |                         |
| For Elevated Installation >25' To 30', Add   | 15.25                     |                         |
| For Elevated Installation >30' To 35', Add   | 17.43                     |                         |
| For Elevated Installation >35' To 40', Add   | 21.79                     |                         |
| For Elevated Installation >40', Add  | 23.96                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 13.07                     |                         |
| 26 05 33 13-2665 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                   | 83.51                     | 21.36                   |
| For Work In Restricted Working Space, Add  | 16.02                     |                         |
| For Elevated Installation >10' To 15', Add   | 5.34                      |                         |
| For Elevated Installation >15' To 20', Add   | 10.68                     |                         |
| For Elevated Installation >20' To 25', Add   | 13.35                     |                         |
| For Elevated Installation >25' To 30', Add   | 18.69                     |                         |
| For Elevated Installation >30' To 35', Add   | 21.36                     |                         |
| For Elevated Installation >35' To 40', Add   | 26.71                     |                         |
| For Elevated Installation >40', Add  | 29.38                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 16.02                     |                         |
| 26 05 33 13-2666 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                   | 108.67                    | 24.74                   |
| For Work In Restricted Working Space, Add  | 18.55                     |                         |
| For Elevated Installation >10' To 15', Add   | 6.18                      |                         |
| For Elevated Installation >15' To 20', Add   | 12.37                     |                         |
| For Elevated Installation >20' To 25', Add   | 15.46                     |                         |
| For Elevated Installation >25' To 30', Add   | 21.64                     |                         |
| For Elevated Installation >30' To 35', Add   | 24.74                     |                         |
| For Elevated Installation >35' To 40', Add   | 30.92                     |                         |
| For Elevated Installation >40', Add  | 34.01                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 18.55                     |                         |
| 26 05 33 13-2667 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                       | 142.34                    | 28.11                   |
| For Work In Restricted Working Space, Add  | 21.08                     |                         |
| For Elevated Installation >10' To 15', Add   | 7.03                      |                         |
| For Elevated Installation >15' To 20', Add   | 14.05                     |                         |
| For Elevated Installation >20' To 25', Add   | 17.57                     |                         |
| For Elevated Installation >25' To 30', Add   | 24.59                     |                         |
| For Elevated Installation >30' To 35', Add   | 28.11                     |                         |
| For Elevated Installation >35' To 40', Add   | 35.14                     |                         |
| For Elevated Installation >40', Add  | 38.65                     |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 21.08                     |                         |



**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**26 05 33 13-2668 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover**  
(26 05 33 13-2660)

|                  |   |        |       |
|------------------|---|--------|-------|
| 26 05 33 13-2669 | EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....         | 37.91  | 10.68 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 8.01   |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 2.67   |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 5.34   |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 6.68   |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 9.35   |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 10.68  |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 13.35  |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 14.69  |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8.01   |       |
| 26 05 33 13-2670 | EA 3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....         | 49.40  | 14.06 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 10.54  |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51   |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03   |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.79   |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30  |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.06  |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57  |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 19.33  |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54  |       |
| 26 05 33 13-2671 | EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....           | 60.73  | 17.42 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 13.07  |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 4.36   |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 8.71   |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 10.89  |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 15.25  |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 17.43  |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 21.79  |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 23.96  |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 13.07  |       |
| 26 05 33 13-2672 | EA 1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....       | 83.17  | 21.36 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 16.02  |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.34   |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.68  |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.35  |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.69  |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.36  |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.71  |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 29.38  |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 16.02  |       |
| 26 05 33 13-2673 | EA 1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....       | 102.01 | 24.74 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 18.55  |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.18   |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.37  |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.46  |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.64  |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.74  |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.92  |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 34.01  |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 18.55  |       |
| 26 05 33 13-2674 | EA 2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....           | 141.77 | 28.11 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 21.08  |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.03   |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.05  |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.57  |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.59  |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.11  |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.14  |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 38.65  |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 21.08  |       |

**26 05 33 13-2675 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover**  
(26 05 33 13-2660)

|                  |   |       |       |
|------------------|---|-------|-------|
| 26 05 33 13-2676 | EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover .....              | 48.87 | 14.06 |
|                  | <i>For Work In Restricted Working Space, Add</i>  | 10.54 |       |
|                  | <i>For Elevated Installation &gt;10' To 15', Add</i>  | 3.51  |       |
|                  | <i>For Elevated Installation &gt;15' To 20', Add</i>  | 7.03  |       |
|                  | <i>For Elevated Installation &gt;20' To 25', Add</i>  | 8.79  |       |
|                  | <i>For Elevated Installation &gt;25' To 30', Add</i>  | 12.30 |       |
|                  | <i>For Elevated Installation &gt;30' To 35', Add</i>  | 14.06 |       |
|                  | <i>For Elevated Installation &gt;35' To 40', Add</i>  | 17.57 |       |
|                  | <i>For Elevated Installation &gt;40', Add</i>   | 19.33 |       |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10.54 |       |



| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 05 33 13-2677 EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....                           | 63.36        | 17.42      |
| <i>For Work In Restricted Working Space, Add</i>   | 13.07        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.36         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.71         |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.89        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.25        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 17.43        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 21.79        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 23.96        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 13.07        |            |
| 26 05 33 13-2678 EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....                             | 76.55        | 21.36      |
| <i>For Work In Restricted Working Space, Add</i>   | 16.02        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 5.34         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 10.68        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 13.35        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 18.69        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 21.36        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 26.71        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 29.38        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 16.02        |            |
| 26 05 33 13-2679 EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....                         | 104.59       | 24.74      |
| <i>For Work In Restricted Working Space, Add</i>   | 19.40        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 6.47         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 12.93        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 16.16        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 22.63        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 25.86        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 32.33        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 35.56        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 19.40        |            |
| 26 05 33 13-2680 EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....                         | 133.15       | 28.11      |
| <i>For Work In Restricted Working Space, Add</i>   | 22.77        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 7.59         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 15.18        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 18.98        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 26.57        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 30.36        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 37.95        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 41.75        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 22.77        |            |
| 26 05 33 13-2681 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....                             | 177.10       | 31.48      |
| <i>For Work In Restricted Working Space, Add</i>   | 26.14        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 8.71         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 17.43        |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 21.79        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 30.50        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 34.86        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 43.57        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 47.93        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 26.14        |            |
| <b>26 05 33 13-2682 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2680)</small> |              |            |
| 26 05 33 13-2683 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....                             | 38.89        | 10.68      |
| <i>For Work In Restricted Working Space, Add</i>   | 8.01         |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 2.67         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 5.34         |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 6.68         |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 9.35         |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 10.68        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 13.35        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 14.69        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 8.01         |            |
| 26 05 33 13-2684 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....                             | 51.96        | 14.06      |
| <i>For Work In Restricted Working Space, Add</i>   | 10.54        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 3.51         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 7.03         |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 8.79         |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 12.30        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 14.06        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 17.57        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 19.33        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 10.54        |            |
| 26 05 33 13-2685 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....                               | 66.19        | 17.42      |
| <i>For Work In Restricted Working Space, Add</i>   | 13.07        |            |
| <i>For Elevated Installation &gt;10' To 15', Add</i>   | 4.36         |            |
| <i>For Elevated Installation &gt;15' To 20', Add</i>   | 8.71         |            |
| <i>For Elevated Installation &gt;20' To 25', Add</i>   | 10.89        |            |
| <i>For Elevated Installation &gt;25' To 30', Add</i>   | 15.25        |            |
| <i>For Elevated Installation &gt;30' To 35', Add</i>   | 17.43        |            |
| <i>For Elevated Installation &gt;35' To 40', Add</i>   | 21.79        |            |
| <i>For Elevated Installation &gt;40', Add</i>  | 23.96        |            |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 13.07        |            |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 13-2686 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                               | 85.25                     | 21.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 16.02                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 5.34                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 10.68                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 13.35                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 18.69                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 21.36                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 26.71                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 29.38                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 16.02                     |                         |
| 26 05 33 13-2687 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                               | 103.21                    | 24.74                   |
| <i>For Work In Restricted Working Space, Add</i>  | 18.55                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 6.18                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 12.37                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 15.46                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 21.64                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 24.74                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 30.92                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 34.01                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 18.55                     |                         |
| 26 05 33 13-2688 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....                                   | 152.88                    | 28.11                   |
| <i>For Work In Restricted Working Space, Add</i>  | 21.08                     |                         |
| <i>For Elevated Installation &gt;10' To 15', Add</i>  | 7.03                      |                         |
| <i>For Elevated Installation &gt;15' To 20', Add</i>  | 14.05                     |                         |
| <i>For Elevated Installation &gt;20' To 25', Add</i>  | 17.57                     |                         |
| <i>For Elevated Installation &gt;25' To 30', Add</i>  | 24.59                     |                         |
| <i>For Elevated Installation &gt;30' To 35', Add</i>  | 28.11                     |                         |
| <i>For Elevated Installation &gt;35' To 40', Add</i>  | 35.14                     |                         |
| <i>For Elevated Installation &gt;40', Add</i>   | 38.65                     |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 21.08                     |                         |
| <b>26 05 33 13-2689 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2547)</b>       |                           |                         |
| 26 05 33 13-2690 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) .....   | 177.48                    | 30.78                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 23.11                     |                         |
| 26 05 33 13-2691 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) ..... | 636.32                    | 56.92                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 42.71                     |                         |
| 26 05 33 13-2692 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) .....         | 1,226.77                  | 115.53                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 86.65                     |                         |
| <b>26 05 33 13-2693 Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2547)</b>                                      |                           |                         |
| <b>26 05 33 13-2694 Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2693)</b>                                      |                           |                         |
| 26 05 33 13-2695 EA 1/2" Replacement Stamped Aluminum Conduit Body Cover .....  | 14.03                     | 5.48                    |
| 26 05 33 13-2696 EA 3/4" Replacement Stamped Aluminum Conduit Body Cover .....  | 17.08                     | 6.39                    |
| 26 05 33 13-2697 EA 1" Replacement Stamped Aluminum Conduit Body Cover .....  | 21.89                     | 8.23                    |
| 26 05 33 13-2698 EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover .....  | 26.66                     | 10.05                   |
| 26 05 33 13-2699 EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover .....  | 32.64                     | 11.87                   |
| 26 05 33 13-2700 EA 2" Replacement Stamped Aluminum Conduit Body Cover .....  | 38.59                     | 13.71                   |
| 26 05 33 13-2701 EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover .....  | 50.42                     | 15.53                   |
| 26 05 33 13-2702 EA 3" Replacement Stamped Aluminum Conduit Body Cover .....  | 65.81                     | 21.92                   |
| 26 05 33 13-2703 EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover .....  | 71.48                     | 24.67                   |
| 26 05 33 13-2704 EA 4" Replacement Stamped Aluminum Conduit Body Cover .....  | 90.04                     | 31.06                   |
| <b>26 05 33 13-2705 Replacement Cast Steel Conduit Body Cover (26 05 33 13-2693)</b>  |                           |                         |
| 26 05 33 13-2706 EA 1/2" Replacement Cast Steel Conduit Body Cover .....  | 16.12                     | 5.48                    |
| 26 05 33 13-2707 EA 3/4" Replacement Cast Steel Conduit Body Cover .....  | 18.90                     | 6.39                    |
| 26 05 33 13-2708 EA 1" Replacement Cast Steel Conduit Body Cover .....  | 26.38                     | 8.23                    |
| 26 05 33 13-2709 EA 1-1/4" Replacement Cast Steel Conduit Body Cover .....  | 32.75                     | 10.05                   |
| 26 05 33 13-2710 EA 1-1/2" Replacement Cast Steel Conduit Body Cover .....  | 39.74                     | 11.87                   |
| 26 05 33 13-2711 EA 2" Replacement Cast Steel Conduit Body Cover .....  | 46.70                     | 13.71                   |
| 26 05 33 13-2712 EA 2-1/2" Replacement Cast Steel Conduit Body Cover .....  | 53.64                     | 15.53                   |
| 26 05 33 13-2713 EA 3" Replacement Cast Steel Conduit Body Cover .....  | 73.41                     | 21.92                   |
| 26 05 33 13-2714 EA 3-1/2" Replacement Cast Steel Conduit Body Cover .....  | 83.47                     | 24.67                   |
| 26 05 33 13-2715 EA 4" Replacement Cast Steel Conduit Body Cover .....  | 105.20                    | 31.06                   |
| <b>26 05 33 13-2716 Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2693)</b>                                  |                           |                         |
| 26 05 33 13-2717 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket .....  | 13.09                     | 5.48                    |
| 26 05 33 13-2718 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket .....  | 14.99                     | 6.39                    |
| 26 05 33 13-2719 EA 1" Replacement Velbuna Composition Conduit Body Gasket .....  | 19.55                     | 8.23                    |
| 26 05 33 13-2720 EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket .....  | 25.25                     | 10.05                   |
| 26 05 33 13-2721 EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket .....  | 28.91                     | 11.87                   |
| 26 05 33 13-2722 EA 2" Replacement Velbuna Composition Conduit Body Gasket .....  | 34.27                     | 13.71                   |
| 26 05 33 13-2723 EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket .....  | 44.51                     | 15.53                   |
| 26 05 33 13-2724 EA 3" Replacement Velbuna Composition Conduit Body Gasket .....  | 58.43                     | 21.92                   |
| 26 05 33 13-2725 EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket .....  | 64.50                     | 24.67                   |
| 26 05 33 13-2726 EA 4" Replacement Velbuna Composition Conduit Body Gasket .....  | 77.15                     | 31.06                   |



|  | MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|-------------|------------------------|----------------------|
|--|-------|-----|-----|-------------|------------------------|----------------------|

**26 05 33 13-2727 Replacement Neoprene Conduit Body Gasket (26 05 33 13-2693)**

|                  |    |  |       |       |
|------------------|----|--|-------|-------|
| 26 05 33 13-2728 | EA | 1/2" Replacement Neoprene Conduit Body Gasket.....   | 14.55 | 5.48  |
| 26 05 33 13-2729 | EA | 3/4" Replacement Neoprene Conduit Body Gasket.....   | 16.38 | 6.39  |
| 26 05 33 13-2730 | EA | 1" Replacement Neoprene Conduit Body Gasket.....     | 21.37 | 8.23  |
| 26 05 33 13-2731 | EA | 1-1/4" Replacement Neoprene Conduit Body Gasket..... | 26.17 | 10.05 |
| 26 05 33 13-2732 | EA | 1-1/2" Replacement Neoprene Conduit Body Gasket..... | 29.83 | 11.87 |
| 26 05 33 13-2733 | EA | 2" Replacement Neoprene Conduit Body Gasket.....     | 34.37 | 13.71 |
| 26 05 33 13-2734 | EA | 2-1/2" Replacement Neoprene Conduit Body Gasket..... | 44.74 | 15.53 |
| 26 05 33 13-2735 | EA | 3" Replacement Neoprene Conduit Body Gasket.....     | 58.66 | 21.92 |
| 26 05 33 13-2736 | EA | 3-1/2" Replacement Neoprene Conduit Body Gasket..... | 66.05 | 24.67 |
| 26 05 33 13-2737 | EA | 4" Replacement Neoprene Conduit Body Gasket.....     | 78.70 | 31.06 |

**26 05 33 16 Boxes for Electrical Systems (26 05 33)**  
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.

**26 05 33 16-0001 Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)**  
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0134 for steel box/switch assemblies.

**26 05 33 16-0002 4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)**

|                  |    |   |       |       |
|------------------|----|---|-------|-------|
| 26 05 33 16-0003 | EA | 1-1/2" Depth, 4" Square Steel Box.....  | 51.08 | 23.07 |
|                  |    | <i>For Stud Bracket, Add</i>  | 1.21  |       |
| 26 05 33 16-0004 | EA | 2-1/8" Depth, 4" Square Steel Box.....  | 53.32 | 23.07 |
|                  |    | <i>For Stud Bracket, Add</i>  | 2.17  |       |
| 26 05 33 16-0005 | EA | 3-1/2" Depth, 4" Square Steel Box.....  | 61.01 | 23.07 |
|                  |    | <i>For Stud Bracket, Add</i>  | 2.37  |       |
| 26 05 33 16-0006 | EA | 1-1/2" Depth, 4" Square Steel Extension Ring.....   | 41.72 | 15.39 |
| 26 05 33 16-0007 | EA | 2-1/8" Depth, 4" Square Steel Extension Ring.....   | 33.94 | 15.39 |
| 26 05 33 16-0008 | EA | 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....   | 17.74 | 7.69  |
| 26 05 33 16-0009 | EA | 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....   | 18.10 | 7.69  |
| 26 05 33 16-0010 | EA | 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....   | 18.36 | 7.69  |
| 26 05 33 16-0011 | EA | 1" Depth, 1 Gang, 4" Square Steel Mud Ring.....   | 19.19 | 7.69  |
| 26 05 33 16-0012 | EA | 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....   | 19.43 | 7.69  |
| 26 05 33 16-0013 | EA | 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....   | 22.09 | 7.69  |
| 26 05 33 16-0014 | EA | 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....   | 18.75 | 7.69  |
| 26 05 33 16-0015 | EA | 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....   | 19.01 | 7.69  |
| 26 05 33 16-0016 | EA | 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....   | 19.32 | 7.69  |
| 26 05 33 16-0017 | EA | 1" Depth, 2 Gang, 4" Square Steel Mud Ring.....   | 22.05 | 7.69  |
| 26 05 33 16-0018 | EA | 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....   | 22.61 | 7.69  |
| 26 05 33 16-0019 | EA | 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....   | 26.07 | 7.69  |
| 26 05 33 16-0020 | EA | 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....   | 20.08 | 7.69  |
| 26 05 33 16-0021 | EA | 1" Depth, Fixture Cover, 4" Square Mud Rings.....   | 22.28 | 7.69  |
| 26 05 33 16-0022 | EA | One Toggle Switch, 4" Square Steel Exposed Work Cover.....                                    | 18.71 | 7.69  |
| 26 05 33 16-0023 | EA | Two Toggle Switches, 4" Square Steel Exposed Work Cover.....                                  | 18.91 | 7.69  |
| 26 05 33 16-0024 | EA | One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....                                | 18.66 | 7.69  |
| 26 05 33 16-0025 | EA | Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....                               | 19.25 | 7.69  |
| 26 05 33 16-0026 | EA | One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....          | 19.74 | 7.69  |
| 26 05 33 16-0027 | EA | One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover..... | 25.84 | 7.69  |
| 26 05 33 16-0028 | EA | One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....                       | 19.65 | 7.69  |
| 26 05 33 16-0029 | EA | Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....                      | 25.84 | 7.69  |
| 26 05 33 16-0030 | EA | One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....                       | 19.65 | 7.69  |
| 26 05 33 16-0031 | EA | One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....                       | 21.08 | 7.69  |
| 26 05 33 16-0032 | EA | One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....                       | 25.84 | 7.69  |
| 26 05 33 16-0033 | EA | One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....                       | 25.84 | 7.69  |
| 26 05 33 16-0034 | EA | Flat, 4" Square Steel Exposed Work Cover.....   | 16.97 | 7.69  |

**26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)**

|                  |    |  |       |       |
|------------------|----|--|-------|-------|
| 26 05 33 16-0036 | EA | 1-1/2" Depth, 4-11/16" Square Steel Box.....                         | 59.37 | 23.07 |
| 26 05 33 16-0037 | EA | 2-1/8" Depth, 4-11/16" Square Steel Box.....                         | 54.30 | 23.07 |
|                  |    | <i>For Stud Bracket, Add</i>   | 1.14  |       |
| 26 05 33 16-0038 | EA | 3-1/4" Depth, 4-11/16" Square Steel Box.....                         | 79.76 | 23.07 |
| 26 05 33 16-0039 | EA | 1-1/2" Depth, 4-11/16" Square Extension Ring.....                    | 43.84 | 15.39 |
| 26 05 33 16-0040 | EA | 2-1/8" Depth, 4-11/16" Square Extension Ring.....                    | 45.09 | 15.39 |
| 26 05 33 16-0041 | EA | 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....              | 22.81 | 7.69  |
| 26 05 33 16-0042 | EA | 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....              | 22.87 | 7.69  |
| 26 05 33 16-0043 | EA | 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....              | 25.03 | 7.69  |
| 26 05 33 16-0044 | EA | 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....                | 24.16 | 7.69  |
| 26 05 33 16-0045 | EA | 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....            | 23.97 | 7.69  |
| 26 05 33 16-0046 | EA | 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....            | 32.96 | 7.69  |
| 26 05 33 16-0047 | EA | 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....              | 24.53 | 7.69  |
| 26 05 33 16-0048 | EA | 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....              | 25.00 | 7.69  |
| 26 05 33 16-0049 | EA | 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....              | 25.03 | 7.69  |
| 26 05 33 16-0050 | EA | 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....                | 28.21 | 7.69  |
| 26 05 33 16-0051 | EA | 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....            | 28.87 | 7.69  |
| 26 05 33 16-0052 | EA | 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....            | 36.57 | 7.69  |
| 26 05 33 16-0053 | EA | 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....       | 24.11 | 7.69  |
| 26 05 33 16-0054 | EA | 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....       | 24.34 | 7.69  |
| 26 05 33 16-0055 | EA | One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....     | 30.30 | 7.69  |
| 26 05 33 16-0056 | EA | Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....   | 31.97 | 7.69  |
| 26 05 33 16-0057 | EA | One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover..... | 29.81 | 7.69  |

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



| MINOR                   |     |  | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|--|--------------|------------|
| CSI                     | UOM | DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 05 33 16-0058        | EA  | Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover .....                         | 27.99        | 7.69       |
| 26 05 33 16-0059        | EA  | One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....     | 34.08        | 7.69       |
| 26 05 33 16-0060        | EA  | One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....                  | 31.96        | 7.69       |
| 26 05 33 16-0061        | EA  | One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....                  | 31.96        | 7.69       |
| 26 05 33 16-0062        | EA  | One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....                  | 31.96        | 7.69       |
| 26 05 33 16-0063        | EA  | Flat, 4-11/16" Square Steel Exposed Work Cover.....  | 18.33        | 7.69       |
| <b>26 05 33 16-0064</b> |     | <b>Steel Square Box Brackets</b> <small>(26 05 33 16-0001)</small>                             |              |            |
| 26 05 33 16-0065        | EA  | 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....                   | 25.37        | 11.56      |
| 26 05 33 16-0066        | EA  | Single Box Bracket, One 4" Or 4-11/16" Square Box.....   | 18.92        | 7.70       |
| 26 05 33 16-0067        | EA  | 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes .....                                 | 30.77        | 11.56      |
| 26 05 33 16-0068        | EA  | 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes .....                                  | 33.55        | 11.56      |
| <b>26 05 33 16-0069</b> |     | <b>4" Octagon Steel Boxes And Covers</b> <small>(26 05 33 16-0001)</small>                     |              |            |
| 26 05 33 16-0070        | EA  | 1-1/2" Depth, 4" Steel Octagon Box.....  | 42.50        | 19.22      |
|                         |     | <i>For Stud Bracket, Add</i>   | 2.94         |            |
| 26 05 33 16-0071        | EA  | 2-1/8" Depth, 4" Steel Octagon Box.....  | 44.46        | 19.22      |
| 26 05 33 16-0072        | EA  | Flat, 4" Octagon Steel Exposed Work Cover .....  | 16.84        | 7.69       |
| <b>26 05 33 16-0073</b> |     | <b>4" Steel Octagonal Concrete Rings And Steel Covers</b> <small>(26 05 33 16-0001)</small>    |              |            |
|                         |     | <i>Note: Placed in concrete slabs or walls.</i>  |              |            |
| 26 05 33 16-0074        | EA  | 2" Depth, 4" Steel Octagonal Concrete Ring .....   | 70.39        |            |
| 26 05 33 16-0075        | EA  | 2-1/2" Depth, 4" Steel Octagonal Concrete Ring .....   | 74.92        |            |
| 26 05 33 16-0076        | EA  | 3" Depth, 4" Steel Octagonal Concrete Ring .....   | 78.37        |            |
| 26 05 33 16-0077        | EA  | 3-1/2" Depth, 4" Steel Octagonal Concrete Ring .....   | 81.71        |            |
| 26 05 33 16-0078        | EA  | 4" Depth, 4" Steel Octagonal Concrete Ring .....   | 90.19        |            |
| 26 05 33 16-0079        | EA  | 5" Depth, 4" Steel Octagonal Concrete Ring .....   | 99.00        |            |
| 26 05 33 16-0080        | EA  | 6" Depth, 4" Steel Octagonal Concrete Ring .....   | 105.67       |            |
| 26 05 33 16-0081        | EA  | Flat, 4" Steel Octagonal Concrete Cover.....   | 19.54        | 7.69       |
| <b>26 05 33 16-0082</b> |     | <b>4-1/2" Steel Gang Boxes</b> <small>(26 05 33 16-0001)</small>                               |              |            |
| 26 05 33 16-0083        | EA  | 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....  | 70.25        | 19.22      |
| 26 05 33 16-0084        | EA  | 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....  | 77.37        | 20.77      |
| 26 05 33 16-0085        | EA  | 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....  | 94.12        | 23.07      |
| 26 05 33 16-0086        | EA  | 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....  | 125.56       | 25.38      |
| 26 05 33 16-0087        | EA  | 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....  | 191.95       | 27.69      |
| 26 05 33 16-0088        | EA  | 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....  | 100.52       | 19.22      |
| 26 05 33 16-0089        | EA  | 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....  | 109.62       | 20.77      |
| 26 05 33 16-0090        | EA  | 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....  | 148.58       | 23.07      |
| 26 05 33 16-0091        | EA  | 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....  | 193.28       | 25.38      |
| 26 05 33 16-0092        | EA  | 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....  | 325.84       | 27.69      |
| 26 05 33 16-0093        | EA  | 2 Device, Gang Box Mud Ring.....   | 31.13        | 7.69       |
| 26 05 33 16-0094        | EA  | 3 Device, Gang Box Mud Ring.....   | 31.64        | 7.69       |
| 26 05 33 16-0095        | EA  | 4 Device, Gang Box Mud Ring.....   | 37.47        | 7.69       |
| 26 05 33 16-0096        | EA  | 5 Device, Gang Box Mud Ring.....   | 47.50        | 7.69       |
| 26 05 33 16-0097        | EA  | 6 Device, Gang Box Mud Ring.....   | 69.49        | 7.69       |
| 26 05 33 16-0098        | EA  | 2 Device, Gang Box Flat Cover .....  | 26.12        | 7.69       |
| 26 05 33 16-0099        | EA  | 3 Device, Gang Box Flat Cover .....  | 31.58        | 7.69       |
| 26 05 33 16-0100        | EA  | 4 Device, Gang Box Flat Cover .....  | 38.83        | 7.69       |
| 26 05 33 16-0101        | EA  | 5 Device, Gang Box Flat Cover .....  | 48.06        | 7.69       |
| 26 05 33 16-0102        | EA  | 6 Device, Gang Box Flat Cover .....  | 71.05        | 7.69       |
| <b>26 05 33 16-0103</b> |     | <b>Steel Switch Boxes</b> <small>(26 05 33 16-0001)</small>                                    |              |            |
| 26 05 33 16-0104        | EA  | 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box .....                                    | 46.27        | 19.22      |
| 26 05 33 16-0105        | EA  | 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box .....                                    | 47.12        | 19.22      |
| 26 05 33 16-0106        | EA  | 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box .....                                    | 51.49        | 19.22      |
| 26 05 33 16-0107        | EA  | 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box .....  | 61.31        | 19.22      |
| 26 05 33 16-0108        | EA  | 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box .....  | 62.16        | 19.22      |
| 26 05 33 16-0109        | EA  | 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box .....  | 75.46        | 19.22      |
| <b>26 05 33 16-0110</b> |     | <b>4" x 2" Steel Handy Boxes, Extension Rings And Covers</b> <small>(26 05 33 16-0001)</small> |              |            |
| 26 05 33 16-0111        | EA  | 1-1/2" Deep, 4" x 2" Steel Handy Box.....  | 42.28        | 19.22      |
|                         |     | <i>For Stud Bracket, Add</i>   | 4.73         |            |
| 26 05 33 16-0112        | EA  | 1-7/8" Deep, 4" x 2" Steel Handy Box.....  | 43.19        | 19.22      |
|                         |     | <i>For Stud Bracket, Add</i>   | 2.04         |            |
| 26 05 33 16-0113        | EA  | 2-1/8" Deep, 4" x 2" Steel Handy Box.....  | 45.20        | 19.22      |
|                         |     | <i>For Stud Bracket, Add</i>   | 2.77         |            |
| 26 05 33 16-0114        | EA  | 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....                                       | 28.56        | 11.54      |
| 26 05 33 16-0115        | EA  | 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....                                       | 27.66        | 11.54      |
| 26 05 33 16-0116        | EA  | GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover .....                               | 9.67         | 3.85       |
| 26 05 33 16-0117        | EA  | 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....                    | 9.84         | 3.85       |
| 26 05 33 16-0118        | EA  | Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....                             | 8.99         | 3.85       |
| 26 05 33 16-0119        | EA  | Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....                                 | 9.05         | 3.85       |
| 26 05 33 16-0120        | EA  | 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....                    | 10.78        | 3.85       |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover .....               | 9.05                      | 3.85                    |
| <b>26 05 33 16-0122 3-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)</b>      |                           |                         |
| 26 05 33 16-0123 EA 1 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....               | 64.48                     | 26.92                   |
| 26 05 33 16-0124 EA 2 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....               | 72.97                     | 28.46                   |
| 26 05 33 16-0125 EA 3 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....               | 84.57                     | 30.76                   |
| 26 05 33 16-0126 EA 4 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....               | 96.94                     | 33.84                   |
| <b>26 05 33 16-0127 Cast Boxes (26 05 33 16)</b>   |                           |                         |
| Note: For flush or surface mount.  |                           |                         |
| <b>26 05 33 16-0128 Cast Iron Alloy Boxes (26 05 33 16-0127)</b>                         |                           |                         |
| See CSI section 26 27 26 00-0271 for box covers.   |                           |                         |
| <b>26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b>    |                           |                         |
| Note: Up to 2" deep boxes.   |                           |                         |
| 26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....   | 121.46                    | 46.15                   |
| Note: One hub.   |                           |                         |
| 26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....   | 133.03                    | 53.83                   |
| Note: One hub.   |                           |                         |
| 26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....     | 157.69                    | 65.37                   |
| Note: One hub.   |                           |                         |
| 26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box ..... | 153.84                    | 61.53                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box ..... | 193.70                    | 73.07                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....  | 153.34                    | 61.53                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....  | 183.91                    | 73.07                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box ..... | 156.49                    | 61.53                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box ..... | 183.96                    | 73.07                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box ..... | 153.34                    | 61.53                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box ..... | 180.07                    | 73.07                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... | 184.62                    | 76.91                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... | 219.17                    | 92.29                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... | 190.66                    | 76.91                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... | 242.20                    | 92.29                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... | 194.61                    | 76.91                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... | 232.73                    | 92.29                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box.....  | 184.11                    | 76.91                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box.....  | 235.39                    | 92.29                   |
| Note: Three hubs.  |                           |                         |
| 26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box ..... | 231.64                    | 92.29                   |
| Note: Four hubs.   |                           |                         |
| 26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box ..... | 279.55                    | 111.52                  |
| Note: Four hubs.   |                           |                         |
| <b>26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b>       |                           |                         |
| Note: >2" deep boxes.  |                           |                         |
| 26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box.....      | 125.90                    | 46.15                   |
| Note: One hub.   |                           |                         |
| 26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box.....      | 145.37                    | 53.83                   |
| Note: One hub.   |                           |                         |
| 26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box.....        | 171.93                    | 65.37                   |
| Note: One hub.   |                           |                         |
| 26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box.....     | 161.97                    | 61.53                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box .....    | 188.09                    | 73.07                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box .....      | 226.42                    | 88.44                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box .....    | 199.18                    | 73.07                   |
| Note: Two hubs.  |                           |                         |
| 26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box .....   | 255.33                    | 92.29                   |
| Note: Three hubs.  |                           |                         |
| <b>26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b>       |                           |                         |
| Note: Up to 2" deep boxes.   |                           |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box.....<br>Note: One hub.              | 143.14                    | 49.99                   |
| 26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box.....<br>Note: One hub.              | 159.83                    | 57.68                   |
| 26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box.....<br>Note: One hub.                | 186.87                    | 69.22                   |
| 26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box.....<br>Note: Two hubs.            | 176.04                    | 65.37                   |
| 26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box.....<br>Note: Two hubs.            | 201.39                    | 76.91                   |
| <b>26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b><br>Note: >2" deep boxes.           |                           |                         |
| 26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box.....<br>Note: One hub.                 | 156.49                    | 49.99                   |
| 26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box.....<br>Note: One hub.                 | 172.39                    | 57.68                   |
| 26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box.....<br>Note: Two hubs.               | 196.14                    | 65.37                   |
| 26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box.....<br>Note: Two hubs.               | 222.63                    | 76.91                   |
| <b>26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127)</b><br>See CSI section 26 27 26 00-0271 for box covers. |                           |                         |
| <b>26 05 33 16-0172 CSI, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)</b><br>Note: Up to 2" deep boxes.      |                           |                         |
| 26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....<br>Note: One hub.             | 106.08                    | 38.46                   |
| 26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....<br>Note: One hub.             | 122.62                    | 46.15                   |
| 26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....<br>Note: One hub.               | 139.74                    | 57.68                   |
| 26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box.....<br>Note: One hub.            | 100.90                    | 38.46                   |
| 26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box.....<br>Note: One hub.            | 126.27                    | 46.15                   |
| 26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 137.35                    | 53.83                   |
| 26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 165.38                    | 65.37                   |
| 26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.             | 206.83                    | 80.76                   |
| 26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 146.36                    | 53.83                   |
| 26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 160.99                    | 65.37                   |
| 26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.          | 141.24                    | 53.83                   |
| 26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.          | 164.06                    | 65.37                   |
| 26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 137.92                    | 53.83                   |
| 26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 164.06                    | 65.37                   |
| 26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 130.28                    | 53.83                   |
| 26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.           | 172.18                    | 65.37                   |
| 26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.        | 166.31                    | 69.22                   |
| 26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.        | 202.35                    | 84.60                   |
| 26 05 33 16-0191 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.        | 174.23                    | 69.22                   |
| 26 05 33 16-0192 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.        | 229.80                    | 84.60                   |
| 26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.        | 173.57                    | 69.22                   |
| 26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.        | 212.79                    | 84.60                   |
| 26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Three hubs.         | 215.15                    | 84.60                   |
| 26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Four hubs.          | 211.76                    | 84.60                   |
| 26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box.....<br>Note: Four hubs.          | 258.78                    | 103.83                  |
| <b>26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)</b><br>Note: >2" deep boxes.          |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....<br>Note: One hub.   | 115.27                    | 38.46                   |
| 26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....<br>Note: One hub.   | 138.13                    | 46.15                   |
| 26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....<br>Note: One hub.   | 161.06                    | 57.68                   |
| 26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box .....<br>Note: One hub.   | 146.52                    | 46.15                   |
| 26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.   | 149.23                    | 53.83                   |
| 26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box .....<br>Note: Two hubs.  | 179.97                    | 65.37                   |
| 26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....<br>Note: Two hubs.   | 205.46                    | 80.76                   |
| 26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box .....<br>Note: Two hubs.  | 181.92                    | 65.37                   |
| 26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box .....<br>Note: Three hubs.   | 225.04                    | 84.60                   |
| <b>26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)</b><br>Note: Up to 2" deep boxes.  |                           |                         |
| 26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box .....<br>Note: One hub.  | 135.82                    | 42.30                   |
| 26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box .....<br>Note: One hub.  | 156.39                    | 49.99                   |
| 26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box .....<br>Note: One hub.  | 172.21                    | 61.53                   |
| 26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.  | 172.39                    | 57.68                   |
| 26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.  | 181.49                    | 69.22                   |
| 26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.  | 223.70                    | 84.60                   |
| <b>26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)</b><br>Note: >2" deep boxes.  |                           |                         |
| 26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box.....<br>Note: One hub.  | 135.72                    | 42.30                   |
| 26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box.....<br>Note: One hub.  | 157.64                    | 49.99                   |
| 26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.   | 175.26                    | 57.68                   |
| 26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.   | 200.71                    | 69.22                   |
| 26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.   | 175.26                    | 57.68                   |
| 26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box .....<br>Note: Two hubs.   | 200.71                    | 69.22                   |
| <b>26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171)</b><br>Note: Up to 2" deep boxes.  |                           |                         |
| 26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box .....<br>Note: Two hubs.  | 184.48                    | 61.53                   |
| 26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box.....<br>Note: Two hubs.   | 209.19                    | 73.07                   |
| <b>26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171)</b><br>Note: >2" deep boxes.  |                           |                         |
| 26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box .....<br>Note: One hub.   | 201.44                    | 53.83                   |
| 26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box .....<br>Note: One hub.   | 227.46                    | 65.37                   |
| <b>26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127)</b><br>Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III. |                           |                         |
| 26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body .....<br>Note: One hub.                                   | 211.60                    | 61.53                   |
| 26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body .....<br>Note: One hub.                                   | 258.48                    | 69.22                   |
| 26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body .....<br>Note: One hub.                                     | 243.75                    | 76.91                   |
| 26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body .....<br>Note: One hub.                                 | 235.06                    | 69.22                   |
| 26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA .....<br>Note: One hub.                  | 282.57                    | 76.91                   |
| <b>26 05 33 16-0234 Non-Metallic (PVC) Boxes (26 05 33 16)</b><br>See CSI section 26 27 26 00-0271 for box covers.  |                           |                         |
| <b>26 05 33 16-0235 Shallow, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)</b>  |                           |                         |
| 26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 76.23                     | 32.31                   |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: One hub.  | 87.36                     | 37.69                   |
| 26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: One hub.  | 100.46                    | 45.76                   |
| 26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.   | 98.13                     | 43.07                   |
| 26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.   | 115.47                    | 51.15                   |
| 26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.   | 140.02                    | 61.92                   |
| 26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.   | 98.44                     | 43.07                   |
| 26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.   | 114.65                    | 51.15                   |
| 26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.   | 137.21                    | 61.92                   |
| 26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Three hubs.  | 124.13                    | 53.83                   |
| 26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Three hubs.  | 142.41                    | 64.60                   |
| 26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box .....<br>Note: Three hubs.  | 168.36                    | 78.07                   |
| <b>26 05 33 16-0248 Deep, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)</b>  |                           |                         |
| 26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: No hubs.  | 77.13                     | 32.31                   |
| 26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 75.54                     | 32.31                   |
| 26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 89.52                     | 37.69                   |
| 26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 101.34                    | 45.76                   |
| 26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 99.91                     | 43.07                   |
| 26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 113.14                    | 51.15                   |
| 26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 135.48                    | 61.92                   |
| <b>26 05 33 16-0256 Shallow, Two Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)</b>  |                           |                         |
| 26 05 33 16-0257 EA 1/2" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 82.09                     | 34.99                   |
| 26 05 33 16-0258 EA 3/4" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 94.13                     | 40.38                   |
| 26 05 33 16-0259 EA 1" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: One hub.   | 106.01                    | 48.45                   |
| 26 05 33 16-0260 EA 1/2" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 101.54                    | 45.76                   |
| 26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 124.73                    | 53.83                   |
| 26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 147.85                    | 64.60                   |
| 26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 103.64                    | 45.76                   |
| 26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 130.56                    | 53.83                   |
| 26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Two hubs.  | 143.17                    | 64.60                   |
| 26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Three hubs.   | 126.90                    | 56.53                   |
| 26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Three hubs.   | 164.82                    | 67.30                   |
| 26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box .....<br>Note: Three hubs.   | 173.60                    | 80.76                   |
| <b>26 05 33 16-0269 Poke Thru Units (26 05 33 16)</b>  |                           |                         |
| <b>26 05 33 16-0270 Surface Poke Thru Units (26 05 33 16-0269)</b>   |                           |                         |
| Note: Excludes concrete drilling.  |                           |                         |
| 26 05 33 16-0271 EA Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit .....<br>Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks.<br>Wiremold RC3ATCAL.   | 596.81                    | 57.68                   |
| 26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water<br>Requirements .....<br>Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black non-metallic<br>cover. Wiremold RC3KTCAL. | 381.70                    |                         |
| 26 05 33 16-0273 EA 20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit .....<br>Note: Wiremold RC37REC.  | 55.98                     | 15.39                   |
| 26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit .....<br>Note: Wiremold RC3APTCBK.  | 64.41                     | 7.69                    |



|                  | MINOR<br>CSI UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|------------------|--|---------------------------|-------------------------|
| 26 05 33 16-0275 | EA               | Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit .....<br>Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4ATCAL.  | 673.88                    | 61.53                   |
| 26 05 33 16-0276 | EA               | Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements .....<br>Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4KTCAL.  | 358.12                    |                         |
| 26 05 33 16-0277 | EA               | Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit .....<br>Note: Wiremold RC4REC2.   | 94.98                     | 23.07                   |
| 26 05 33 16-0278 | EA               | Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit.....<br>Note: Wiremold RC4APTCHK.   | 64.41                     | 7.69                    |
| 26 05 33 16-0279 | EA               | Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit.....<br>Note: Wiremold ABPLUG4.  | 185.58                    | 15.39                   |
| 26 05 33 16-0280 | EA               | Four Jack RC9AMD Communications Poke Thru Unit .....<br>Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.   | 534.79                    | 53.83                   |
| 26 05 33 16-0281 | EA               | Abandonment Plate For RC9 Series Communications Poke Thru Unit .....<br>Note: Wiremold RC9APTCHK.  | 45.46                     | 7.69                    |
| 26 05 33 16-0282 | EA               | Eight Jack AMD8 Communications Poke Thru Unit.....<br>Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.  | 532.40                    | 53.83                   |
| 26 05 33 16-0283 | EA               | Communication Conduit Adapter For Poke Thru Units .....<br>Note: Includes two conduit connections for communication systems. Wiremold COM75.   | 62.33                     | 7.69                    |
| <br>             |                  |  |                           |                         |
| 26 05 33 16-0284 |                  | <b>Recessed Poke Thru Units</b> (26 05 33 16-0269)<br>Note: Excludes concrete drilling.  |                           |                         |
| 26 05 33 16-0285 |                  | <b>Evolution 6AT Poke Thru Units</b> (26 05 33 16-0284)<br>Note: Excludes concrete drilling.   |                           |                         |
| 26 05 33 16-0286 | EA               | Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) .....<br>Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.  | 914.17                    | 61.53                   |
| 26 05 33 16-0287 | EA               | Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP) .....<br>Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.   | 914.28                    | 61.53                   |
| 26 05 33 16-0288 | EA               | Recessed Assembly With Surface Style Cover (Wiremold 6ATC).....<br>Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.   | 872.44                    | 61.53                   |
| 26 05 33 16-0289 | EA               | Recessed Assembly With Flush Style Cover (Wiremold 6AT).....<br>Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.  | 872.44                    | 61.53                   |
| 26 05 33 16-0290 | EA               | Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA).....<br>Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.  | 914.17                    | 61.53                   |
| 26 05 33 16-0291 | EA               | Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA).....<br>Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.   | 914.17                    | 61.53                   |
| 26 05 33 16-0292 | EA               | Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF).....<br>Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2" to 1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. | 837.12                    | 61.53                   |
| 26 05 33 16-0293 | EA               | Recessed Assembly With Disposable Plate (Wiremold 6STC).....<br>Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.  | 532.35                    | 57.68                   |
| 26 05 33 16-0294 | EA               | Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) .....<br>Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.  | 569.26                    | 57.68                   |
| 26 05 33 16-0295 | EA               | Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) .....<br>Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.   | 572.92                    | 57.68                   |
| 26 05 33 16-0296 | EA               | 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS).....<br>Note: Non-metallic sleeve attaches to structural decking and maintains 6" to 6-1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.   | 168.07                    | 30.76                   |
| 26 05 33 16-0297 | EA               | Surface Style Cover Assembly (Wiremold 6CTC).....<br>Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.  | 364.75                    | 15.39                   |
| 26 05 33 16-0298 | EA               | Flush Style Cover Assembly (Wiremold 6CT).....<br>Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.   | 364.75                    | 15.39                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 26 05 33 16-0299 | EA  | Furniture Feed Cover Assembly (Wiremold 6CFFTC).....<br>Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2" to 1-1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services. | 304.22                    | 15.39                   |
| 26 05 33 16-0300 | EA  | Tile Shim (Wiremold 6TS).....<br>Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.   | 44.65                     | 3.85                    |
| 26 05 33 16-0301 | EA  | Device Mounting Plate (Wiremold 6AAP).....<br>Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.  | 24.17                     | 7.69                    |
| 26 05 33 16-0302 | EA  | Device Mounting Plate (Wiremold 6ACT8A).....<br>Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.  | 27.45                     | 7.69                    |
| 26 05 33 16-0303 | EA  | Device Mounting Plate (Wiremold 6B).....<br>Note: Device plate used to blank off center compartment, when no devices are used.   | 24.07                     | 7.69                    |
| 26 05 33 16-0304 | EA  | Device Mounting Plate (Wiremold 6DEC).....<br>Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.  | 24.13                     | 7.69                    |
| 26 05 33 16-0305 | EA  | Device Mounting Plate (Wiremold 6DP).....<br>Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.   | 23.99                     | 7.69                    |
| 26 05 33 16-0306 | EA  | Device Mounting Plate (Wiremold 6MAAP).....<br>Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.  | 27.79                     | 7.69                    |
| 26 05 33 16-0307 | EA  | Device Mounting Plate (Wiremold 6MAAP2A).....<br>Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.  | 27.53                     | 7.69                    |
| 26 05 33 16-0308 | EA  | Mosaic Mounting Plate (Wiremold 6MOS).....<br>Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.  | 28.12                     | 7.69                    |
| 26 05 33 16-0309 | EA  | Device Mounting Plate (Wiremold 6S1).....<br>Note: Receptacle opening 1 3/8". For 6" poke-thru units only.   | 23.68                     | 7.69                    |
| 26 05 33 16-0310 | EA  | Device Mounting Plate (Wiremold 6S2).....<br>Note: Receptacle opening 1 9/16". For 6" poke-thru units only.  | 23.70                     | 7.69                    |
| 26 05 33 16-0311 | EA  | Device Mounting Plate (Wiremold 6SER).....<br>Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.  | 23.41                     | 7.69                    |
| 26 05 33 16-0312 | EA  | Device Mounting Plate (Wiremold 6TRAC).....<br>Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.  | 23.41                     | 7.69                    |
| 26 05 33 16-0313 | EA  | 20 Amperes, Duplex Receptacles (Wiremold 68REC).....<br>Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.  | 53.64                     | 11.54                   |
| 26 05 33 16-0314 | EA  | Device Mounting Plate (Wiremold 68B).....<br>Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.   | 21.69                     | 7.69                    |
| 26 05 33 16-0315 | EA  | Device Mounting Plate (Wiremold 68MAAP).....<br>Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.   | 22.16                     | 7.69                    |
| 26 05 33 16-0316 | EA  | 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....<br>Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated  | 159.92                    | 13.84                   |
| 26 05 33 16-0317 | EA  | Device Mounting Plate (Wiremold 682A).....<br>Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.  | 27.23                     | 7.69                    |
| 26 05 33 16-0318 | EA  | Bottom Housing Assembly (Wiremold 5PTH).....<br>Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.  | 28.25                     | 7.69                    |
| 26 05 33 16-0319 | EA  | Bottom Housing Assembly (Wiremold 5BLH).....<br>Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.   | 28.97                     | 7.69                    |
| 26 05 33 16-0320 | EA  | Bottom Housing Assembly (Wiremold 152CHA).....<br>Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.  | 45.88                     | 15.39                   |
| 26 05 33 16-0321 | EA  | Bottom Housing Assembly (Wiremold 575CHA).....<br>Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.   | 53.20                     | 19.22                   |
| 26 05 33 16-0322 | EA  | Bottom Housing Assembly (Wiremold 175CHA).....<br>Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.   | 57.90                     | 19.22                   |
| 26 05 33 16-0323 | EA  | Bottom Housing Assembly (Wiremold 1125CHA).....<br>Note: One-gang 1 1/4" trade size conduit housing assembly.  | 44.29                     | 15.39                   |
| 26 05 33 16-0324 | EA  | Bottom Housing Assembly (Wiremold 1PTH).....<br>Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.  | 28.08                     | 7.69                    |
| 26 05 33 16-0325 | EA  | Bottom Housing Assembly (Wiremold 1BLH).....<br>Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.   | 28.08                     | 7.69                    |
| 26 05 33 16-0326 | EA  | Bottom Housing Assembly (Wiremold 15FFHA).....<br>Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.  | 29.43                     | 7.69                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....<br>Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTH, and 1BLH plates.  | 30.34                     | 7.69                    |
| <b>26 05 33 16-0328 Evolution 8AT Poke Thru Units</b> <small>(26 05 33 16-0284)</small><br>Note: Excludes concrete drilling.  |                           |                         |
| 26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP) .....<br>Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. | 1,191.76                  | 61.53                   |
| 26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP) .....<br>Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.     | 1,135.45                  | 61.53                   |
| 26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P) .....<br>Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.    | 1,204.51                  | 61.53                   |
| 26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....<br>Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.             | 1,124.85                  | 61.53                   |
| 26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....<br>Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.                        | 1,114.80                  | 61.53                   |
| 26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....<br>Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.   | 681.36                    | 57.68                   |
| 26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP) .....<br>Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.  | 760.69                    | 57.68                   |
| 26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....<br>Note: Non-metallic sleeve attaches to structural decking and maintains 8" to 8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.  | 199.03                    | 30.76                   |
| 26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....<br>Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.   | 393.96                    | 15.39                   |
| 26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT).....<br>Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.                | 393.96                    | 15.39                   |
| 26 05 33 16-0339 EA Tile Shim (Wiremold 8TS).....<br>Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.   | 68.73                     | 3.85                    |
| 26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B).....<br>Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.   | 24.87                     | 7.69                    |
| 26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP) .....<br>Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.  | 25.00                     | 7.69                    |
| 26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC).....<br>Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.  | 25.14                     | 7.69                    |
| 26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A).....<br>Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.  | 28.66                     | 7.69                    |
| 26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS).....<br>Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.   | 34.07                     | 7.69                    |
| 26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST).....<br>Note: Device plate accepts Crestron double-gang decorator style devices.   | 34.03                     | 7.69                    |
| 26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1).....<br>Note: Receptacle opening 1 3/8". For 8" poke-thru units only.  | 24.21                     | 7.69                    |
| 26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2).....<br>Note: Receptacle opening 1 9/16". For 8" poke-thru units only.   | 24.48                     | 7.69                    |
| 26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC).....<br>Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.   | 24.21                     | 7.69                    |
| 26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER).....<br>Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.  | 24.21                     | 7.69                    |
| 26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP).....<br>Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.   | 33.59                     | 7.69                    |
| 26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP).....<br>Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.  | 28.50                     | 7.69                    |
| 26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV).....<br>Note: Divider allows for separation of services when required.   | 32.39                     | 7.69                    |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA).....   | 45.88                     | 15.39                   |
| Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units. |                           |                         |
| <b>26 05 33 23 Surface Raceways for Electrical Systems (26 05 33)</b>   |                           |                         |
| <b>26 05 33 23-0001 Raceways (26 05 33 23)</b>  |                           |                         |
| <b>26 05 33 23-0002 Wireway With Screw Cover (26 05 33 23-0001)</b>   |                           |                         |
| Note: Also known as wire trough. Galvanized steel construction. Mounted exposed on flat wall surface.   |                           |                         |
| <b>26 05 33 23-0003 2-1/2" x 2-1/2", Wireway With Screw Cover (26 05 33 23-0002)</b>  |                           |                         |
| 26 05 33 23-0004 LF 2-1/2" x 2-1/2", NEMA 1, Surface Mounted Wireway With Screw Cover .....   | 31.08                     | 7.02                    |
| For Combination Hinged Screw Cover, Add   | 0.85                      |                         |
| For Concrete Or Masonry Surface, Add  | 0.70                      |                         |
| 26 05 33 23-0005 EA 2-1/2" x 2-1/2", End Plate For Surface Mounted Wireway With Screw Cover .....   | 27.25                     | 10.54                   |
| For Combination Hinged Screw Cover, Add   | 0.31                      |                         |
| 26 05 33 23-0006 EA 2-1/2" x 2-1/2", Coupling For Surface Mounted Wireway With Screw Cover .....  | 32.45                     | 13.15                   |
| For Combination Hinged Screw Cover, Add   | 0.31                      |                         |
| 26 05 33 23-0007 EA 2-1/2" x 2-1/2", Panel Adapter For Surface Mounted Wireway With Screw Cover .....   | 67.29                     | 24.60                   |
| For Combination Hinged Screw Cover, Add   | 0.91                      |                         |
| 26 05 33 23-0008 EA 2-1/2" x 2-1/2", Elbow For Surface Mounted Wireway With Screw Cover.....  | 103.34                    | 24.60                   |
| For Combination Hinged Screw Cover, Add   | 2.71                      |                         |
| 26 05 33 23-0009 EA 2-1/2" x 2-1/2", Tee For Surface Mounted Wireway With Screw Cover .....   | 152.58                    | 35.00                   |
| For Combination Hinged Screw Cover, Add   | 4.14                      |                         |
| 26 05 33 23-0010 EA 2-1/2" x 2-1/2", Cross For Surface Mounted Wireway With Screw Cover .....   | 171.09                    | 38.65                   |
| For Combination Hinged Screw Cover, Add   | 4.69                      |                         |
| <b>26 05 33 23-0011 4" x 4", Wireway With Screw Cover (26 05 33 23-0002)</b>  |                           |                         |
| 26 05 33 23-0012 LF 4" x 4", NEMA 1, Surface Mounted Wireway With Screw Cover.....  | 38.13                     | 8.86                    |
| For Combination Hinged Screw Cover, Add   | 1.03                      |                         |
| For Concrete Or Masonry Surface, Add  | 0.88                      |                         |
| 26 05 33 23-0013 LF 4" x 4", NEMA 3R, Surface Mounted Wireway With Screw Cover .....  | 66.09                     | 8.86                    |
| For Combination Hinged Screw Cover, Add   | 2.43                      |                         |
| For Concrete Or Masonry Surface, Add  | 0.88                      |                         |
| 26 05 33 23-0014 EA 4" x 4", End Plate For Surface Mounted Wireway With Screw Cover .....   | 21.90                     | 7.73                    |
| For Combination Hinged Screw Cover, Add   | 0.32                      |                         |
| 26 05 33 23-0015 EA 4" x 4", Coupling For Surface Mounted Wireway With Screw Cover.....   | 35.96                     | 14.76                   |
| For Combination Hinged Screw Cover, Add   | 0.32                      |                         |
| 26 05 33 23-0016 EA 4" x 4", Panel Adapter For Surface Mounted Wireway With Screw Cover .....   | 79.84                     | 30.08                   |
| For Combination Hinged Screw Cover, Add   | 0.98                      |                         |
| 26 05 33 23-0017 EA 4" x 4", Elbow For Surface Mounted Wireway With Screw Cover .....   | 119.48                    | 30.08                   |
| For Combination Hinged Screw Cover, Add   | 2.96                      |                         |
| 26 05 33 23-0018 EA 4" x 4", Tee For Surface Mounted Wireway With Screw Cover .....   | 168.00                    | 39.08                   |
| For Combination Hinged Screw Cover, Add   | 4.49                      |                         |
| 26 05 33 23-0019 EA 4" x 4", Cross For Surface Mounted Wireway With Screw Cover .....   | 194.25                    | 45.68                   |
| For Combination Hinged Screw Cover, Add   | 5.14                      |                         |
| <b>26 05 33 23-0020 6" x 6", Wireway With Screw Cover (26 05 33 23-0002)</b>  |                           |                         |
| 26 05 33 23-0021 LF 6" x 6", NEMA 1, Surface Mounted Wireway With Screw Cover.....  | 56.12                     | 10.54                   |
| For Combination Hinged Screw Cover, Add   | 1.75                      |                         |
| For Concrete Or Masonry Surface, Add  | 1.06                      |                         |
| 26 05 33 23-0022 LF 6" x 6", NEMA 3R, Surface Mounted Wireway With Screw Cover .....  | 105.15                    | 10.54                   |
| For Combination Hinged Screw Cover, Add   | 4.20                      |                         |
| For Concrete Or Masonry Surface, Add  | 1.06                      |                         |
| 26 05 33 23-0023 EA 6" x 6", End Plate For Surface Mounted Wireway With Screw Cover .....   | 27.23                     | 8.44                    |
| For Combination Hinged Screw Cover, Add   | 0.52                      |                         |
| 26 05 33 23-0024 EA 6" x 6", Coupling For Surface Mounted Wireway With Screw Cover.....   | 45.50                     | 17.57                   |
| For Combination Hinged Screw Cover, Add   | 0.52                      |                         |
| 26 05 33 23-0025 EA 6" x 6", Panel Adapter For Surface Mounted Wireway With Screw Cover .....   | 110.13                    | 35.00                   |
| For Combination Hinged Screw Cover, Add   | 2.01                      |                         |
| 26 05 33 23-0026 EA 6" x 6", Elbow For Surface Mounted Wireway With Screw Cover .....   | 151.99                    | 35.00                   |
| For Combination Hinged Screw Cover, Add   | 4.11                      |                         |
| 26 05 33 23-0027 EA 6" x 6", Tee For Surface Mounted Wireway With Screw Cover .....   | 234.93                    | 43.71                   |
| For Combination Hinged Screw Cover, Add   | 7.38                      |                         |
| 26 05 33 23-0028 EA 6" x 6", Cross For Surface Mounted Wireway With Screw Cover .....   | 255.77                    | 50.60                   |
| For Combination Hinged Screw Cover, Add   | 7.73                      |                         |
| <b>26 05 33 23-0029 8" x 8", Wireway With Screw Cover (26 05 33 23-0002)</b>  |                           |                         |
| 26 05 33 23-0030 LF 8" x 8", NEMA 1, Surface Mounted Wireway With Screw Cover.....  | 88.60                     | 11.52                   |
| For Combination Hinged Screw Cover, Add   | 3.28                      |                         |
| For Concrete Or Masonry Surface, Add  | 1.15                      |                         |
| 26 05 33 23-0031 LF 8" x 8", NEMA 3R, Surface Mounted Wireway With Screw Cover .....  | 158.44                    | 11.52                   |
| For Combination Hinged Screw Cover, Add   | 6.77                      |                         |
| For Concrete Or Masonry Surface, Add  | 1.15                      |                         |
| 26 05 33 23-0032 EA 8" x 8", End Plate For Surface Mounted Wireway With Screw Cover .....   | 29.94                     | 9.14                    |
| For Combination Hinged Screw Cover, Add   | 0.58                      |                         |
| 26 05 33 23-0033 EA 8" x 8", Coupling For Surface Mounted Wireway With Screw Cover .....  | 49.61                     | 18.98                   |
| For Combination Hinged Screw Cover, Add   | 0.58                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 23-0034 EA 8" x 8", Panel Adapter For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 122.74<br>2.29            | 38.51                   |
| 26 05 33 23-0035 EA 8" x 8", Elbow For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 190.72<br>5.68            | 38.51                   |
| 26 05 33 23-0036 EA 8" x 8", Tee For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 280.76<br>9.29            | 47.51                   |
| 26 05 33 23-0037 EA 8" x 8", Cross For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 388.91<br>13.68           | 57.63                   |
| <b>26 05 33 23-0038 10" x 10", Wireway With Screw Cover</b> <small>(26 05 33 23-0002)</small>  |                           |                         |
| 26 05 33 23-0039 LF 10" x 10", NEMA 1, Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i><br><i>For Concrete Or Masonry Surface, Add</i>                           | 127.46<br>5.04<br>1.34    | 13.36                   |
| 26 05 33 23-0040 LF 10" x 10", NEMA 3R, Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i><br><i>For Concrete Or Masonry Surface, Add</i>                          | 221.97<br>9.76<br>1.34    | 13.36                   |
| 26 05 33 23-0041 EA 10" x 10", End Plate For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 41.11<br>1.00             | 10.54                   |
| 26 05 33 23-0042 EA 10" x 10", Coupling For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>   | 62.19<br>1.00             | 21.08                   |
| 26 05 33 23-0043 EA 10" x 10", Panel Adapter For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 160.40<br>3.83            | 41.88                   |
| 26 05 33 23-0044 EA 10" x 10", Elbow For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 295.26<br>10.57           | 41.88                   |
| 26 05 33 23-0045 EA 10" x 10", Tee For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 442.84<br>16.86           | 52.85                   |
| 26 05 33 23-0046 EA 10" x 10", Cross For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 626.25<br>25.34           | 59.73                   |
| <b>26 05 33 23-0047 12" x 12", Wireway With Screw Cover</b> <small>(26 05 33 23-0002)</small>  |                           |                         |
| 26 05 33 23-0048 LF 12" x 12", NEMA 1, Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i><br><i>For Concrete Or Masonry Surface, Add</i>                           | 149.84<br>5.88<br>1.62    | 16.16                   |
| 26 05 33 23-0049 LF 12" x 12", NEMA 3R, Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i><br><i>For Concrete Or Masonry Surface, Add</i>                          | 244.82<br>10.63<br>1.62   | 16.16                   |
| 26 05 33 23-0050 EA 12" x 12", End Plate For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 53.10<br>1.53             | 11.24                   |
| 26 05 33 23-0051 EA 12" x 12", Coupling For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>   | 75.59<br>1.53             | 22.49                   |
| 26 05 33 23-0052 EA 12" x 12", Panel Adapter For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 207.10<br>5.79            | 45.68                   |
| 26 05 33 23-0053 EA 12" x 12", Elbow For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 385.70<br>14.72           | 45.68                   |
| 26 05 33 23-0054 EA 12" x 12", Tee For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 496.49<br>19.20           | 56.22                   |
| 26 05 33 23-0055 EA 12" x 12", Cross For Surface Mounted Wireway With Screw Cover .....<br><i>For Combination Hinged Screw Cover, Add</i>  | 798.89<br>33.62           | 63.25                   |
| <b>26 05 33 23-0056 Surface Metal Raceways</b> <small>(26 05 33 23-0001)</small><br>Note: Exposed on flat wall surface.  |                           |                         |
| <b>26 05 33 23-0057 One Piece Surface Metal Raceways</b> <small>(26 05 33 23-0056)</small><br>Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal). |                           |                         |
| <b>26 05 33 23-0058 3/4" x 17/32" One Piece Surface Metal Raceways (Wiremold #500)</b> <small>(26 05 33 23-0057)</small><br>Note: Available in ivory.  |                           |                         |
| 26 05 33 23-0059 LF 3/4" x 17/32" One Piece Surface Metal Raceway (Wiremold #500) .....<br><i>For Concrete Or Masonry Surface, Add</i>   | 5.92<br>0.21              | 2.10                    |
| 26 05 33 23-0060 EA Bushing (Wiremold #502) .....  | 6.03                      | 2.82                    |
| 26 05 33 23-0061 EA One Or Two Hole Strap (Wiremold #504) .....  | 6.08                      | 2.82                    |
| 26 05 33 23-0062 EA Connection Cover (Wiremold #506) .....   | 6.27                      | 2.82                    |
| 26 05 33 23-0063 EA Flat 90 Degree Elbow (Wiremold #511) .....   | 9.27                      | 3.38                    |
| 26 05 33 23-0064 EA Flat 45 Degree Elbow (Wiremold #512) .....   | 14.74                     | 3.52                    |
| 26 05 33 23-0065 EA Adjustable Internal Elbow (Wiremold #517) .....  | 11.54                     | 4.22                    |
| 26 05 33 23-0066 EA Adjustable External Elbow (Wiremold #518) .....  | 11.31                     | 4.22                    |
| <b>26 05 33 23-0067 3/4" x 21/32" One Piece Surface Metal Raceways (Wiremold #700)</b> <small>(26 05 33 23-0057)</small><br>Note: Available in ivory and white.  |                           |                         |
| 26 05 33 23-0068 LF 3/4" x 21/32" One Piece Surface Metal Raceway (Wiremold #700) .....<br><i>For Concrete Or Masonry Surface, Add</i>   | 7.49<br>0.28              | 2.82                    |
| 26 05 33 23-0069 EA Bushing (Wiremold #702) .....  | 6.15                      | 2.82                    |
| 26 05 33 23-0070 EA One Or Two Hole Strap (Wiremold #704) .....  | 6.31                      | 2.82                    |
| 26 05 33 23-0071 EA Connection Cover (Wiremold #706) .....   | 6.35                      | 2.82                    |
| 26 05 33 23-0072 EA Flat 90 Degree Elbow (Wiremold #711) .....   | 13.80                     | 5.62                    |
| 26 05 33 23-0073 EA Flat 45 Degree Elbow (Wiremold #712) .....   | 20.59                     | 5.62                    |
| 26 05 33 23-0074 EA Adjustable Internal Elbow (Wiremold #717) .....  | 14.73                     | 5.62                    |
| 26 05 33 23-0075 EA Adjustable External Elbow (Wiremold #718) .....  | 14.30                     | 5.62                    |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 33 23-0076 One Piece Surface Metal Raceways Fittings (Wiremold #500 And 700

Fittings) (26 05 33 23-0057)

Note: Available in ivory.

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 26 05 33 23-0077 | EA | 18" Flex Fitting, For #500 Or 700 (Wiremold #5700F)   | 36.83  | 4.22  |
| 26 05 33 23-0078 | EA | Galvanized Coupling For #500 Or 700 (Wiremold #5701)  | 6.29   | 2.82  |
| 26 05 33 23-0079 | EA | Supporting Clip, For #500 Or 700 (Wiremold #5703)   | 6.29   | 2.82  |
| 26 05 33 23-0080 | EA | Ground Clamp (Wiremold #5709)   | 16.88  | 4.22  |
| 26 05 33 23-0081 | EA | Grounding Connector (Wiremold #5709GC)  | 14.48  | 4.22  |
| 26 05 33 23-0082 | EA | L Or R (Left Or Right) Twisted Internal Ell (Wiremold #5711)  | 16.74  | 5.62  |
| 26 05 33 23-0083 | EA | Tee (Wiremold #5715)  | 19.07  | 7.02  |
| 26 05 33 23-0084 | EA | 2-1/2" x 2-3/8" x 2-1/2" Corner Box (Wiremold #5719)  | 30.89  | 5.62  |
| 26 05 33 23-0085 | EA | Utility Box For #500 Or #700 (Wiremold #57242)  | 24.22  | 5.62  |
| 26 05 33 23-0086 | EA | 2-3/8" Diameter, Blank Cover (Wiremold #5731)   | 13.18  | 3.52  |
| 26 05 33 23-0087 | EA | 3" Diameter, Outlet Box (Wiremold #5733)  | 29.52  | 5.62  |
| 26 05 33 23-0088 | EA | 4-3/4" Square x 1-3/8" Deep, Distribution Box (Wiremold #5735)  | 29.42  | 5.62  |
| 26 05 33 23-0089 | EA | 4-3/8" Blank Cover (Wiremold #5736)   | 13.91  | 3.52  |
| 26 05 33 23-0090 | EA | 4-3/4" Diameter, Extension Box/Open Base (Wiremold #5737)   | 26.91  | 5.62  |
| 26 05 33 23-0091 | EA | 5-1/2" Diameter, Extension Box/Open Base (Wiremold #5737A)  | 26.04  | 5.62  |
| 26 05 33 23-0092 | EA | 4-3/4" Diameter, Fixture Box/Solid Base (Wiremold #5738)  | 26.24  | 5.62  |
| 26 05 33 23-0093 | EA | 5-1/2" Diameter, Fixture Box/Solid Base (Wiremold #5738A)   | 26.24  | 5.62  |
| 26 05 33 23-0094 | EA | 5-1/2" Diameter, Fan Box/Solid Base (Wiremold #5738AF)  | 29.42  | 5.62  |
| 26 05 33 23-0095 | EA | 6-3/8" Diameter, Fixture Box/Solid Base (Wiremold #5739)  | 29.09  | 5.62  |
| 26 05 33 23-0096 | EA | 6-3/8" Diameter, Extension Box/Open Base (Wiremold #5739A)  | 30.91  | 5.62  |
| 26 05 33 23-0097 | EA | Standard Switch Box For #500, Or #700 (Wiremold #57240)   | 35.80  | 9.14  |
| 26 05 33 23-0098 | EA | Duplex Receptacle And Box, Ground, For #500 Or #700 (Wiremold #57243G)  | 57.70  | 17.57 |
| 26 05 33 23-0099 | EA | 2-13/16" x 4-5/8" x 1-3/8" Switch And Receptacle Box For Shallow Type Switches (Wiremold #5741)                     | 27.80  | 9.14  |
| 26 05 33 23-0100 | EA | 1 Gang, 4-5/8" x 2-7/8" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744)                              | 42.23  | 9.14  |
| 26 05 33 23-0101 | EA | 2 Gang, 4-3/4" x 4-3/4" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-2)                            | 47.97  | 9.14  |
| 26 05 33 23-0102 | EA | 3 Gang, 4-5/8" x 6-1/2" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-3)                            | 71.27  | 9.14  |
| 26 05 33 23-0103 | EA | 1 Gang, Signal Box (Wiremold #5744S)  | 38.08  | 7.73  |
| 26 05 33 23-0104 | EA | 2 Gang, Signal Box (Wiremold #5744S-2)  | 42.21  | 7.73  |
| 26 05 33 23-0105 | EA | 3 Gang, Signal Box (Wiremold #5744S-3)  | 66.16  | 7.73  |
| 26 05 33 23-0106 | EA | 4-5/8" x 2-7/8" x 1-3/4" Combination Switch And Receptacle Box With 1/2" KO's (Wiremold #5745)                      | 28.89  | 9.14  |
| 26 05 33 23-0107 | EA | 4-5/8" x 2-7/8" x 1-3/8", 1 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747)   | 25.76  | 9.14  |
| 26 05 33 23-0108 | EA | 4-3/4" x 4-3/4" x 1-3/8", 2 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-2) | 35.02  | 9.14  |
| 26 05 33 23-0109 | EA | 4-5/8" x 6-1/2" x 2-3/4", 3 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-3) | 65.32  | 9.14  |
| 26 05 33 23-0110 | EA | 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748)                       | 27.33  | 9.14  |
| 26 05 33 23-0111 | EA | 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-2)                     | 36.90  | 9.14  |
| 26 05 33 23-0112 | EA | 4-5/8" x 6-1/2" x 1-3/4", 3 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-3)                     | 63.57  | 9.14  |
| 26 05 33 23-0113 | EA | 4-5/8" x 8-11/32" x 1-3/4", 4 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-4)                   | 92.91  | 9.14  |
| 26 05 33 23-0114 | EA | 4-5/8" x 10-5/32" x 1-3/4", 5 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-5)                   | 151.25 | 9.14  |
| 26 05 33 23-0115 | EA | 4-5/8" x 11-31/32" x 1-3/4", 6 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-6)                  | 153.86 | 9.14  |
| 26 05 33 23-0116 | EA | 4-3/8" x 2-7/8" x 15/16" Shallow Switch And Receptacle Box For Shallow Duplex Devices (Wiremold #5748-S)            | 27.03  | 9.14  |
| 26 05 33 23-0117 | EA | 4-5/8" x 2-7/8" x 15/16", 1 Gang, Flush-Type Extension Adapter (Wiremold #5751)                                     | 26.37  | 9.14  |
| 26 05 33 23-0118 | EA | 4-3/4" x 4-3/4" x 15/16", 2 Gang, Flush-Type Extension Adapter (Wiremold #5751-2)                                   | 34.09  | 9.14  |
| 26 05 33 23-0119 | EA | 4-5/8" x 6-1/2" x 15/16", 3 Gang, Flush-Type Extension Adapter (Wiremold #5751-3)                                   | 64.16  | 9.14  |
| 26 05 33 23-0120 | EA | 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Deep Flush-Type Extension Adapter (Wiremold #5751A)                               | 28.26  | 9.14  |
| 26 05 33 23-0121 | EA | 4-11/16" x 4-11/16" x 1-3/8", 2 Gang, Alarm Device Box (Wiremold #5752)   | 35.71  | 9.14  |
| 26 05 33 23-0122 | EA | 4-11/16" x 4-11/16" x 2-3/4", 2 Gang, Extra Deep Alarm Device Box (Wiremold #5753)                                  | 50.13  | 9.14  |
| 26 05 33 23-0123 | EA | Blank Extension Box (Wiremold #5760)  | 17.52  | 3.52  |
| 26 05 33 23-0124 | EA | 1/2" Special Nipple (Wiremold #5780)  | 16.74  | 3.52  |
| 26 05 33 23-0125 | EA | 1/2" Box Connector (Wiremold #5781)   | 11.52  | 3.52  |
| 26 05 33 23-0126 | EA | 3/4" Box Connector (Wiremold #5781A)  | 20.96  | 4.22  |
| 26 05 33 23-0127 | EA | 1/2" Conduit Connector (Wiremold #5782)   | 11.61  | 3.52  |
| 26 05 33 23-0128 | EA | 3/4" Conduit Connector (Wiremold #5782A)  | 25.91  | 4.22  |
| 26 05 33 23-0129 | EA | 1/2" Elbow Conduit Connector (Wiremold #5784)   | 23.36  | 4.22  |
| 26 05 33 23-0130 | EA | Combination Connector, To Any 3-1/4" Or 4" Outlet Box (Wiremold #5785)  | 13.60  | 4.22  |
| 26 05 33 23-0131 | EA | Offset Connector (Wiremold #5786)   | 21.78  | 4.22  |
| 26 05 33 23-0132 | EA | Armor Cable Connector (Wiremold #5790B)   | 11.77  | 3.52  |
| 26 05 33 23-0133 | EA | 1/2" Electrical Metallic Tubing (EMT) Connector, For #500 Or 700 (Wiremold #5791)                                   | 10.32  | 2.82  |

26 05 33 23-0134 1-9/16" x 11/32" One Piece Surface Metal Raceways (Wiremold #1500) (26 05

33 23-0057)

Note: Galvanized finish.

|                  |    |  |       |       |
|------------------|----|--|-------|-------|
| 26 05 33 23-0135 | LF | 1-9/16" x 11/32" One Piece Surface Metal Raceway (Wiremold #1500-10) | 10.62 | 3.52  |
|                  |    | <i>For Concrete Or Masonry Surface, Add</i>                          | 0.35  |       |
| 26 05 33 23-0136 | EA | Wire Clip (Wiremold #1500WC)   | 6.81  | 2.82  |
| 26 05 33 23-0137 | EA | Bushing (Wiremold #1502)   | 8.13  | 3.52  |
| 26 05 33 23-0138 | EA | 2-Hole Strap (Wiremold #1504)  | 9.28  | 4.22  |
| 26 05 33 23-0139 | EA | Flat Elbow (Wiremold #1511)  | 34.94 | 13.36 |
| 26 05 33 23-0140 | EA | Internal Elbow (Wiremold #1517)                                      | 35.96 | 13.36 |
| 26 05 33 23-0141 | EA | Adapter Fitting (Wiremold #1517B)                                    | 38.34 | 13.36 |
| 26 05 33 23-0142 | EA | External Elbow (Wiremold #1518)                                      | 38.14 | 13.36 |
| 26 05 33 23-0143 | EA | Utility Box (Wiremold #1528)   | 33.52 | 9.14  |
| 26 05 33 23-0144 | EA | Junction Box (Wiremold #1542D)                                       | 34.48 | 9.14  |
| 26 05 33 23-0145 | EA | Duplex Receptacle (Wiremold #1543GL)                                 | 67.45 | 17.57 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 23-0146 EA Single Receptacle Box (Wiremold #1546A).....  | 35.42                     | 9.14                    |
| 26 05 33 23-0147 EA Duplex Receptacle Box (Wiremold #1546B).....  | 42.67                     | 9.14                    |
| 26 05 33 23-0148 EA Telephone Box (Wiremold #1546T).....  | 41.92                     | 9.14                    |
| 26 05 33 23-0149 EA Combination Connection (Wiremold #1585).....  | 20.20                     | 4.22                    |
| <b>26 05 33 23-0150 2-7/32" x 28/32" One Piece Surface Metal Raceways (Wiremold #2600)</b> (26 05 33 23-0057)<br>Note: Galvanized finish.   |                           |                         |
| 26 05 33 23-0151 LF 2-7/32" x 28/32" One Piece Surface Metal Raceway (Wiremold #2600-10).....   | 18.32                     | 6.32                    |
| <i>For Concrete Or Masonry Surface, Add</i>   | 0.63                      |                         |
| 26 05 33 23-0152 EA Wire Clip (Wiremold #2600WC).....   | 6.98                      | 2.82                    |
| 26 05 33 23-0153 EA Fiber Bushing (Wiremold #2602).....   | 7.74                      | 2.82                    |
| 26 05 33 23-0154 EA 2-5/8", 90 Degree Flat Elbow (Wiremold #2611).....  | 26.79                     | 4.92                    |
| 26 05 33 23-0155 EA 5" Diameter, Junction Box (Wiremold #2642D).....  | 40.05                     | 7.02                    |
| 26 05 33 23-0156 EA Service Fitting (Wiremold #2686FO).....   | 39.54                     | 8.44                    |
| <b>26 05 33 23-0157 Two Piece Surface Metal Raceways</b> (26 05 33 23-0056)<br>Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal). |                           |                         |
| <b>26 05 33 23-0158 1-9/32" x 3/4" Two Piece Surface Metal Raceways (Wiremold #2000)</b> (26 05 33 23-0157)   |                           |                         |
| 26 05 33 23-0159 LF 1-9/32" x 3/4" Two Piece Surface Metal Raceway Base And Cover (Wiremold #2000BC).....   | 10.51                     | 3.52                    |
| <i>For Concrete Or Masonry Surface, Add</i>   | 0.35                      |                         |
| 26 05 33 23-0160 EA Wire Clip (Wiremold #2000WC).....   | 5.12                      | 2.82                    |
| 26 05 33 23-0161 EA Coupling (Wiremold #2001).....  | 13.77                     | 3.52                    |
| 26 05 33 23-0162 EA Supporting Clip (Wiremold #2003).....   | 6.50                      | 2.10                    |
| 26 05 33 23-0163 EA Cover Clip (Wiremold #2006).....  | 6.05                      | 2.10                    |
| 26 05 33 23-0164 EA Ground Clamp (Wiremold #2009).....  | 15.33                     | 3.52                    |
| 26 05 33 23-0165 EA Entrance End Fitting (Wiremold #2010A2).....  | 31.01                     | 10.54                   |
| 26 05 33 23-0166 EA Entrance End Fitting (Wiremold #2010A3).....  | 52.28                     | 14.06                   |
| 26 05 33 23-0167 EA Blank End Fitting (Wiremold #2010B).....  | 8.36                      | 3.52                    |
| 26 05 33 23-0168 EA Flat 90 Degree Elbow (Wiremold #2011).....  | 26.70                     | 9.14                    |
| 26 05 33 23-0169 EA Tee (Wiremold #2015).....   | 48.30                     | 13.22                   |
| 26 05 33 23-0170 EA Internal Corner Coupling (Wiremold #2017TC).....  | 17.32                     | 7.02                    |
| 26 05 33 23-0171 EA Single Gang Device Box (Wiremold #2048).....  | 40.17                     | 12.51                   |
| 26 05 33 23-0172 EA 2-Gang device Box (Wiremold #2048-2).....   | 62.25                     | 13.92                   |
| 26 05 33 23-0173 EA Flush Plate Adapter (Wiremold #2051H).....  | 43.59                     | 13.92                   |
| 26 05 33 23-0174 EA Side Reducing Connector (Wiremold #2089).....   | 35.10                     | 7.02                    |
| 26 05 33 23-0175 EA #2089E End Reducing Connector.....  | 14.59                     | 3.52                    |
| <b>26 05 33 23-0176 1-7/8" x 7/8" Two Piece Surface Metal Raceways (Wiremold #2400)</b> (26 05 33 23-0157)<br>Note: Available in gray enamel (G) or ivory (V).                                    |                           |                         |
| 26 05 33 23-0177 LF 1-7/8" x 7/8" Two Piece Surface Metal Raceway Base (Wiremold #2400B).....   | 9.01                      | 3.52                    |
| <i>For Concrete Or Masonry Surface, Add</i>   | 0.35                      |                         |
| 26 05 33 23-0178 LF 1-7/8" x 7/8" Divided Two Piece Surface Metal Raceway Base (Wiremold #2400BD).....  | 9.81                      | 3.52                    |
| <i>For Concrete Or Masonry Surface, Add</i>   | 0.35                      |                         |
| 26 05 33 23-0179 LF Raceway Cover (Wiremold #2400C).....  | 3.43                      | 0.70                    |
| 26 05 33 23-0180 EA Wire Clip (Wiremold #2400WC).....   | 5.09                      | 2.82                    |
| 26 05 33 23-0181 EA Coupling (Wiremold #2401).....  | 13.64                     | 3.52                    |
| 26 05 33 23-0182 EA Divided Raceway Coupling (Wiremold #2401D).....   | 10.84                     | 3.52                    |
| 26 05 33 23-0183 EA Cover Clip (Wiremold #2406).....  | 6.04                      | 2.10                    |
| 26 05 33 23-0184 EA Device Bracket Frame (Wiremold #2407-2CM).....  | 43.78                     | 10.54                   |
| 26 05 33 23-0185 EA Device Bracket Frame (Wiremold #2407-2TJ).....  | 42.04                     | 10.54                   |
| 26 05 33 23-0186 EA Ground Clamp (Wiremold #2409).....  | 11.31                     | 2.82                    |
| 26 05 33 23-0187 EA End Fitting (Wiremold #2410A).....  | 29.55                     | 10.54                   |
| 26 05 33 23-0188 EA Blank End (Wiremold #2410B).....  | 8.38                      | 3.52                    |
| 26 05 33 23-0189 EA Divided Blank End Fitting (Wiremold #2410BD).....   | 8.48                      | 3.52                    |
| 26 05 33 23-0190 EA Entrance End Fitting (Wiremold #2410C).....   | 43.59                     | 10.54                   |
| 26 05 33 23-0191 EA Divided Entrance End Fitting (Wiremold #2410D).....   | 41.91                     | 10.54                   |
| 26 05 33 23-0192 EA Divided Entrance End Fitting (Wiremold #2410DFO).....   | 67.07                     | 10.54                   |
| 26 05 33 23-0193 EA Full Cap Entrance End Fitting (Wiremold #2410FC).....   | 51.98                     | 10.54                   |
| 26 05 33 23-0194 EA Divided Flat 90 Degree Elbow (Wiremold #2411D).....   | 32.84                     | 10.54                   |
| 26 05 33 23-0195 EA Radiused Divided Flat 90 Degree Elbow (Wiremold #2411DFO).....  | 51.06                     | 10.54                   |
| 26 05 33 23-0196 EA Radiused Flat 90 Degree Elbow (Wiremold #2411FO).....   | 45.98                     | 10.40                   |
| 26 05 33 23-0197 EA Flat 90 Degree Elbow (Wiremold #2411M).....   | 31.42                     | 10.54                   |
| 26 05 33 23-0198 EA Radiused Divided Tee (Wiremold #2415DFO).....   | 54.58                     | 10.40                   |
| 26 05 33 23-0199 EA Radiused Tee (Wiremold #2415FO).....  | 52.03                     | 10.40                   |
| 26 05 33 23-0200 EA Tee (Wiremold #2415M).....  | 36.76                     | 10.40                   |
| 26 05 33 23-0201 EA Divided Internal Coupling (Wiremold #2417D).....  | 31.09                     | 10.40                   |
| 26 05 33 23-0202 EA Radiused Divided Internal Coupling (Wiremold #2417DFO).....   | 47.40                     | 10.40                   |
| 26 05 33 23-0203 EA Radiused Internal Coupling (Wiremold #2417FO).....  | 46.06                     | 10.40                   |
| 26 05 33 23-0204 EA Internal Coupling (Wiremold #2417M).....  | 30.20                     | 10.40                   |
| 26 05 33 23-0205 EA Radiused Divided External Coupling (Wiremold #2418DFO).....   | 51.31                     | 10.40                   |
| 26 05 33 23-0206 EA Radiused External Coupling (Wiremold #2418FO).....  | 50.51                     | 10.40                   |
| 26 05 33 23-0207 EA External Coupling (Wiremold #2418M).....  | 36.18                     | 10.40                   |
| 26 05 33 23-0208 EA 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444).....  | 46.58                     | 9.14                    |
| 26 05 33 23-0209 EA 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444-2).....  | 51.48                     | 9.14                    |
| 26 05 33 23-0210 EA Over Raceway, Extra Deep Switch And Receptacle Box, 2 Gang (Wiremold #2444-2LS).....  | 51.73                     | 9.14                    |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 05 33 23-0211        | EA  |     | Divided, 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444D).....                                     | 49.66                  | 9.14                 |
| 26 05 33 23-0212        | EA  |     | Divided, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2A).....                              | 69.22                  | 9.14                 |
| 26 05 33 23-0213        | EA  |     | Divided, Over Raceway, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2N).....                | 61.18                  | 9.14                 |
| 26 05 33 23-0214        | EA  |     | 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448).....        | 33.25                  | 9.14                 |
| 26 05 33 23-0215        | EA  |     | 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448-2).....      | 50.39                  | 9.14                 |
| 26 05 33 23-0216        | EA  |     | Device Bracket Type Adapter Plate (Wiremold #2450).....  | 15.64                  | 3.52                 |
| 26 05 33 23-0217        | EA  |     | 4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #2451H).....   | 37.57                  | 10.54                |
| 26 05 33 23-0218        | EA  |     | Bridge Fitting For 2400/700/500 (Wiremold #2475D).....   | 107.12                 | 10.54                |
| 26 05 33 23-0219        | EA  |     | Side Reducing Connector (Wiremold #2489).....  | 31.77                  | 5.62                 |
| <b>26 05 33 23-0220</b> |     |     | <b>2-3/4" x 1-17/32" Two Piece Surface Metal Raceways (Wiremold #3000)</b> <small>(26 05 33 23-0157)</small> |                        |                      |
|                         |     |     | Note: Available in gray enamel (G) or ivory (V).   |                        |                      |
| 26 05 33 23-0221        | LF  |     | 2-3/4" x 1-17/32" Two Piece Surface Metal Raceway Base (Wiremold #3000B).....                                | 17.00                  | 6.32                 |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.63                   |                      |
| 26 05 33 23-0222        | LF  |     | Raceway Cover (Wiremold #3000CE).....  | 3.66                   | 0.70                 |
| 26 05 33 23-0223        | EA  |     | Wire Clips For Conductors (Wiremold #3000WC).....  | 6.35                   | 2.82                 |
| 26 05 33 23-0224        | EA  |     | Couplings (Wiremold #3001).....  | 16.82                  | 2.82                 |
| 26 05 33 23-0225        | EA  |     | Rigid Inside Coupling (Wiremold #3001A).....   | 15.37                  | 3.52                 |
| 26 05 33 23-0226        | EA  |     | Supporting Clip (Wiremold #3003).....  | 11.77                  | 3.52                 |
| 26 05 33 23-0227        | EA  |     | Clip Cover (Wiremold #3006E).....  | 7.13                   | 2.82                 |
| 26 05 33 23-0228        | EA  |     | Device Brackets (Wiremold #3007C).....   | 17.67                  | 5.62                 |
| 26 05 33 23-0229        | EA  |     | C-Hanger (Wiremold #3008C).....  | 16.94                  | 4.22                 |
| 26 05 33 23-0230        | EA  |     | Entrance End Fitting For Connecting To 1/2" Conduit Or Armored Connectors (Wiremold #3010AE).....            | 41.10                  | 13.36                |
| 26 05 33 23-0231        | EA  |     | Blank End Fittings (Wiremold #3010B).....  | 15.38                  | 5.62                 |
| 26 05 33 23-0232        | EA  |     | Entrance End Fitting For Connecting To Rigid Or Flexible Conduit (Wiremold #3010C).....                      | 44.85                  | 13.36                |
| 26 05 33 23-0233        | EA  |     | Flat 90 Degree Elbow (Wiremold #3011E).....  | 66.16                  | 17.42                |
| 26 05 33 23-0234        | EA  |     | Wall Box Connector (Wiremold #3014C).....  | 49.59                  | 17.57                |
| 26 05 33 23-0235        | EA  |     | Tee Fitting (Wiremold #3015E).....   | 89.95                  | 21.78                |
| 26 05 33 23-0236        | EA  |     | Internal Corner Coupling (Wiremold #3017TCE).....  | 43.96                  | 13.36                |
| 26 05 33 23-0237        | EA  |     | External Corner (Wiremold #3018AE).....  | 52.78                  | 13.36                |
| 26 05 33 23-0238        | EA  |     | Single Receptacle Cover With Face Diameters Of 1.38" To 1.4" (Wiremold #3027AE).....                         | 39.46                  | 13.36                |
| 26 05 33 23-0239        | EA  |     | Utility Box (Wiremold #3028).....  | 62.53                  | 13.36                |
| 26 05 33 23-0240        | EA  |     | Single Receptacle Cover With Face Diameters Of 1.56" To 1.57" (Wiremold #3033JE).....                        | 19.81                  | 3.52                 |
| 26 05 33 23-0241        | EA  |     | Blank Cover (Wiremold #3036HE).....  | 21.52                  | 3.52                 |
| 26 05 33 23-0242        | EA  |     | Switch Cover (Wiremold #3040CE).....   | 19.76                  | 3.52                 |
| 26 05 33 23-0243        | EA  |     | Duplex Receptacle Cover (Wiremold #3043BE).....  | 23.51                  | 4.22                 |
| 26 05 33 23-0244        | EA  |     | 15 Amperes, 125 Volt Duplex Grounding Receptacle And Cover (Wiremold #3043GE).....                           | 64.17                  | 18.28                |
| 26 05 33 23-0245        | EA  |     | 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #3044-2).....   | 69.64                  | 13.36                |
| 26 05 33 23-0246        | EA  |     | Duplex Receptacle Cover (Wiremold #3046BE).....  | 20.23                  | 4.22                 |
| 26 05 33 23-0247        | EA  |     | Tap Off Fitting (Wiremold #3046H-2).....   | 22.87                  | 3.52                 |
| 26 05 33 23-0248        | EA  |     | 1-15/16" Deep x 6" Long, Circuit Breaker Housing (Wiremold #3046KD).....                                     | 88.60                  | 8.44                 |
| 26 05 33 23-0249        | EA  |     | 2-3/4" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046KTSQ).....                                 | 212.64                 | 8.44                 |
| 26 05 33 23-0250        | EA  |     | 1-13/16" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046QOU).....                                | 77.48                  | 8.44                 |
| 26 05 33 23-0251        | EA  |     | 1-13/16" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046S).....             | 83.64                  | 8.44                 |
| 26 05 33 23-0252        | EA  |     | 1-13/32" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046U).....             | 83.64                  | 8.44                 |
| 26 05 33 23-0253        | EA  |     | Rectangular Receptacle Cover (Wiremold #3048R).....  | 27.06                  | 4.22                 |
| <b>26 05 33 23-0254</b> |     |     | <b>4-3/4" x 1-3/4" Two Piece Surface Metal Raceways (Wiremold #4000)</b> <small>(26 05 33 23-0157)</small>   |                        |                      |
|                         |     |     | Note: Available in gray enamel (G) or ivory (V).   |                        |                      |
| 26 05 33 23-0255        | LF  |     | 4-3/4" x 1-3/4" Two Piece Surface Metal Raceway Base (Wiremold #4000B-10).....                               | 20.52                  | 6.32                 |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.68                   |                      |
| 26 05 33 23-0256        | LF  |     | Raceway Cover (Wiremold #4000C).....   | 6.81                   | 0.70                 |
| 26 05 33 23-0257        | LF  |     | Divider (Wiremold #4000D).....   | 3.46                   | 0.70                 |
| 26 05 33 23-0258        | EA  |     | Wire Clips For Conductors (Wiremold #4000WC).....  | 7.65                   | 3.52                 |
| 26 05 33 23-0259        | EA  |     | Couplings (Wiremold #4001A).....   | 20.25                  | 4.22                 |
| 26 05 33 23-0260        | EA  |     | Divider Clip (Wiremold #4001D).....  | 10.08                  | 4.22                 |
| 26 05 33 23-0261        | EA  |     | Seam Clip (Wiremold #4006).....  | 10.22                  | 4.22                 |
| 26 05 33 23-0262        | EA  |     | Single Device Fitting (Wiremold #4007C-1R).....  | 38.09                  | 9.14                 |
| 26 05 33 23-0263        | EA  |     | Blank End Fittings (Wiremold #4010B).....  | 21.05                  | 5.62                 |
| 26 05 33 23-0264        | EA  |     | Entrance End Fitting (Wiremold #4010DFO).....  | 80.87                  | 21.64                |
| 26 05 33 23-0265        | EA  |     | Flat 90 Degree Elbow (Wiremold #4011).....   | 74.11                  | 17.57                |
| 26 05 33 23-0266        | EA  |     | Radiused Flat 90 Degree Elbow (Wiremold #4011FO).....  | 86.20                  | 17.57                |
| 26 05 33 23-0267        | EA  |     | Internal Or External 45 Degree Elbow (Wiremold #4012TX).....   | 81.81                  | 21.78                |
| 26 05 33 23-0268        | EA  |     | Wall Box Connector (Wiremold #4014A).....  | 105.99                 | 21.78                |
| 26 05 33 23-0269        | EA  |     | Tee Fitting (Wiremold #4015).....  | 116.60                 | 21.78                |
| 26 05 33 23-0270        | EA  |     | Divided Tee Fitting (Wiremold #4015D).....   | 120.86                 | 21.78                |
| 26 05 33 23-0271        | EA  |     | Radiused Full Capacity Divided Tee Fitting (Wiremold #4015DFO).....  | 142.55                 | 21.78                |
| 26 05 33 23-0272        | EA  |     | Radiused Tee Fitting (Wiremold #4015FO).....   | 142.97                 | 21.78                |
| 26 05 33 23-0273        | EA  |     | Internal Elbow (Wiremold #4017).....   | 68.21                  | 21.78                |
| 26 05 33 23-0274        | EA  |     | Internal Elbow (Wiremold #4017FO).....   | 114.73                 | 21.78                |
| 26 05 33 23-0275        | EA  |     | Inverted Internal Elbow (Wiremold #4017N).....   | 74.60                  | 21.78                |
| 26 05 33 23-0276        | EA  |     | Internal Corner Coupling (Wiremold #4017TCA).....  | 64.83                  | 21.78                |
| 26 05 33 23-0277        | EA  |     | External Elbow (Wiremold #4018).....   | 97.27                  | 21.78                |
| 26 05 33 23-0278        | EA  |     | Radiused External Elbow (Wiremold #4018FO).....  | 111.41                 | 21.78                |
| 26 05 33 23-0279        | EA  |     | Single Locking Receptacle And Two RJ11/45 Modular Connectors Outlet Cover (Wiremold #4046ARJ).....           | 90.35                  | 9.14                 |
| 26 05 33 23-0280        | EA  |     | Double Duplex Receptacle Outlet Cover (Wiremold #4046B-2).....   | 95.58                  | 9.14                 |
| 26 05 33 23-0281        | EA  |     | Duplex Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046DRJ).....                           | 95.58                  | 9.14                 |
| 26 05 33 23-0282        | EA  |     | Double Duplex Receptacle And Four RJ11/45 Modular Connector Cover (Wiremold #4046DRJ-2).....                 | 126.50                 | 9.14                 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 23-0283 EA Tap-Off Fitting (Wiremold #4046H-2).....   | 29.57                     | 9.14                    |
| 26 05 33 23-0284 EA Combination Single Receptacle And Phone Outlet Center (Wiremold #4046JRJ) .....                | 80.51                     | 4.22                    |
| 26 05 33 23-0285 EA Rectangular Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046RRJ).....        | 97.74                     | 9.14                    |
| 26 05 33 23-0286 EA 1 Gang Device Plate (Wiremold #G4047C-1).....  | 28.48                     | 9.14                    |
| 26 05 33 23-0287 EA 2 Gang Device Plate (Wiremold #G4047C-2).....  | 32.75                     | 9.14                    |
| 26 05 33 23-0288 EA Device Mounting Bracket (Wiremold #4050).....  | 31.92                     | 7.02                    |
| 26 05 33 23-0289 EA #4000 To #3000 Take-off Connector (Wiremold #4074A).....                                       | 144.61                    | 21.78                   |
| 26 05 33 23-0290 EA Bridge Fitting (Wiremold #4075D).....  | 131.21                    | 21.78                   |
| 26 05 33 23-0291 EA Bridge Fitting (Wiremold #4075DA).....   | 131.21                    | 21.78                   |
| 26 05 33 23-0292 EA Panel Connector (Wiremold #4086A).....   | 115.52                    | 41.46                   |
| 26 05 33 23-0293 EA Reducing Connector Fitting (Wiremold #4089).....   | 69.54                     | 21.78                   |
| <b>26 05 33 23-0294 4-3/4" x 3-9/16" Two Piece Surface Metal Raceways (Wiremold #6000)</b> (26 05 33 23-0157)      |                           |                         |
| Note: Available in gray enamel (G) or ivory (V).   |                           |                         |
| 26 05 33 23-0295 LF 4-3/4" x 3-9/16" Two Piece Surface Metal Raceway Base (Wiremold #6000B-10).....                | 28.40                     | 7.73                    |
| <i>For Concrete Or Masonry Surface, Add</i>  |                           |                         |
|  | 0.77                      |                         |
| 26 05 33 23-0296 LF Raceway Cover (Wiremold #6000C).....   | 7.94                      | 2.10                    |
| 26 05 33 23-0297 LF Divider (Wiremold #6000DA).....  | 8.14                      | 2.10                    |
| 26 05 33 23-0298 EA Wire Clips For Conductors (Wiremold #6000WC).....  | 8.51                      | 3.52                    |
| 26 05 33 23-0299 EA Couplings (Wiremold #6001A).....   | 24.72                     | 7.02                    |
| 26 05 33 23-0300 EA Divider Clip (Wiremold #6001D).....  | 11.25                     | 3.52                    |
| 26 05 33 23-0301 EA Converter Coupling (Wiremold #6001TX).....   | 30.87                     | 9.14                    |
| 26 05 33 23-0302 EA Connection Cover (Wiremold #6006).....   | 29.53                     | 9.14                    |
| 26 05 33 23-0303 EA Single Gang Device Plate (Wiremold #6007C-1).....  | 30.75                     | 9.14                    |
| 26 05 33 23-0304 EA Two Gang Device Plate (Wiremold #6007C-2).....   | 33.23                     | 9.14                    |
| 26 05 33 23-0305 EA C-Hanger (Wiremold #6008A).....  | 48.34                     | 13.36                   |
| 26 05 33 23-0306 EA Blank End Fittings (Wiremold #6010B).....  | 55.40                     | 21.08                   |
| 26 05 33 23-0307 EA Combination Flat Elbow (Wiremold #6011TX).....   | 94.95                     | 21.08                   |
| 26 05 33 23-0308 EA Internal-External 45 Degree Elbow (Wiremold #6012TX).....                                      | 96.00                     | 20.24                   |
| 26 05 33 23-0309 EA Connector Fitting (Wiremold #6014A).....   | 133.49                    | 21.78                   |
| 26 05 33 23-0310 EA Combination Internal-External Elbow (Wiremold #6017TX).....                                    | 99.36                     | 23.90                   |
| 26 05 33 23-0311 EA Circuit Breaker Housing (Wiremold #6046KD).....  | 164.45                    | 23.90                   |
| 26 05 33 23-0312 EA #6000 To #6000 Take-off Connector (Wiremold #6074).....  | 157.74                    | 21.08                   |
| 26 05 33 23-0313 EA #6000 To #4000 Take-off Connector (Wiremold #6074A).....                                       | 169.82                    | 21.08                   |
| 26 05 33 23-0314 EA Panel Connector (Wiremold #6086).....  | 120.58                    | 48.91                   |
| <b>26 05 33 23-0315 Two Piece Surface Aluminum Raceways</b> (26 05 33 23-0056)                                     |                           |                         |
| Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal). |                           |                         |
| <b>26 05 33 23-0316 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceways (Wiremold #AL2000)</b> (26 05 33 23-0315) |                           |                         |
| 26 05 33 23-0317 LF 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2000B).....              | 12.86                     | 3.52                    |
| <i>For Concrete Or Masonry Surface, Add</i>  |                           |                         |
|  | 0.35                      |                         |
| 26 05 33 23-0318 LF Aluminum Raceway Cover (Wiremold #AL2000C).....  | 6.03                      | 0.70                    |
| 26 05 33 23-0319 EA Wire Clip (Wiremold #AL2000WC).....  | 6.39                      | 2.82                    |
| 26 05 33 23-0320 EA Coupling (Wiremold #AL2001).....   | 14.70                     | 3.52                    |
| 26 05 33 23-0321 EA Supporting Clip (Wiremold #AL2003).....  | 6.84                      | 2.10                    |
| 26 05 33 23-0322 EA Cover Clip (Wiremold #AL2006).....   | 8.48                      | 2.10                    |
| 26 05 33 23-0323 EA Ground Clamp (Wiremold #AL2009).....   | 12.30                     | 3.52                    |
| 26 05 33 23-0324 EA Entrance End Fitting (Wiremold #AL2010A).....  | 34.63                     | 10.54                   |
| 26 05 33 23-0325 EA Blank End Fitting (Wiremold #AL2010B).....   | 11.24                     | 3.52                    |
| 26 05 33 23-0326 EA Flat 90 Degree Elbow (Wiremold #AL2011).....   | 39.06                     | 9.14                    |
| 26 05 33 23-0327 EA Tee (Wiremold #AL2015).....  | 53.27                     | 13.22                   |
| 26 05 33 23-0328 EA Internal Corner Elbow (Wiremold #AL2017).....  | 34.87                     | 7.02                    |
| 26 05 33 23-0329 EA External Corner Elbow (Wiremold #AL2018).....  | 34.80                     | 7.02                    |
| 26 05 33 23-0330 EA 2 To 15 Amperes, In-Line Receptacle (Wiremold #AL2043).....                                    | 57.85                     | 13.92                   |
| 26 05 33 23-0331 EA 4-13/16" Round Fixture Box (Wiremold #AL2038).....   | 126.81                    | 12.51                   |
| 26 05 33 23-0332 EA 4-1/2" x 3" x 2-1/4" D Box (Wiremold #AL2044).....   | 58.93                     | 12.51                   |
| 26 05 33 23-0333 EA 4-5/8" x 4-7/8" x 2-1/2" D Box (Wiremold #AL2044-2).....                                       | 117.64                    | 13.92                   |
| 26 05 33 23-0334 EA Single Gang Shallow Device Box (Wiremold #AL2047).....   | 60.86                     | 12.51                   |
| 26 05 33 23-0335 EA 2-Gang Shallow Device Box (Wiremold #AL2047-2).....  | 104.59                    | 13.92                   |
| 26 05 33 23-0336 EA Flush Plate Adapter (Wiremold #AL2051H).....   | 47.72                     | 13.92                   |
| <b>26 05 33 23-0337 2" x 1-9/32" Two Piece Surface Aluminum Raceways (Wiremold #AL2400)</b> (26 05 33 23-0315)     |                           |                         |
| 26 05 33 23-0338 LF 2" x 1-9/32" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2400B).....                  | 14.78                     | 3.52                    |
| <i>For Concrete Or Masonry Surface, Add</i>  |                           |                         |
|  | 0.35                      |                         |
| 26 05 33 23-0339 LF Aluminum Raceway Cover (Wiremold #AL2400C).....  | 6.55                      | 0.70                    |
| 26 05 33 23-0340 EA Wire Clip (Wiremold #AL2400WC).....  | 8.76                      | 2.82                    |
| 26 05 33 23-0341 EA Coupling (Wiremold #AL2401).....   | 16.95                     | 3.52                    |
| 26 05 33 23-0342 EA Cover Clip (Wiremold #AL2406).....   | 11.24                     | 2.10                    |
| 26 05 33 23-0343 EA Ground Clamp (Wiremold #AL2409).....   | 9.95                      | 2.82                    |
| 26 05 33 23-0344 EA Blank End (Wiremold #AL2410B).....   | 12.68                     | 3.52                    |
| 26 05 33 23-0345 EA End Fitting (Wiremold #AL2410B2).....  | 27.93                     | 10.54                   |
| 26 05 33 23-0346 EA Flat 90 Degree Elbow (Wiremold #AL2411).....   | 48.85                     | 10.54                   |
| 26 05 33 23-0347 EA Tee (Wiremold #AL2415).....  | 53.03                     | 10.40                   |
| 26 05 33 23-0348 EA Fourway Fitting (Wiremold #AL2416).....  | 61.85                     | 10.40                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 33 23-0349 EA Internal Coupling (Wiremold #AL2417).....  | 48.68                     | 10.40                   |
| 26 05 33 23-0350 EA External Coupling (Wiremold #AL2418).....  | 52.22                     | 10.40                   |
| 26 05 33 23-0351 EA 4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #AL2451H).....                                       | 43.85                     | 10.54                   |
| <b>26 05 33 23-0352 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceways (Wiremold #AL3300) (26 05 33 23-0315)</b>    |                           |                         |
| 26 05 33 23-0353 LF 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL3300B).....                 | 23.81                     | 6.32                    |
| <i>For Concrete Or Masonry Surface, Add</i>  | 0.63                      |                         |
| 26 05 33 23-0354 LF Aluminum Raceway Cover (Wiremold #AL3300CE).....   | 6.47                      | 0.70                    |
| 26 05 33 23-0355 LF Raceway Divider (Wiremold #AL3300D).....   | 5.39                      | 6.32                    |
| 26 05 33 23-0356 EA Wire Clips For Conductors (Wiremold #AL3300WC).....  | 10.89                     | 2.82                    |
| 26 05 33 23-0357 EA Couplings (Wiremold #AL3301).....  | 20.96                     | 2.82                    |
| 26 05 33 23-0358 EA Divider Coupling (Wiremold #AL3301D).....  | 16.62                     | 3.52                    |
| 26 05 33 23-0359 EA Ground Clamp (Wiremold #AL3309).....   | 11.39                     | 2.82                    |
| 26 05 33 23-0360 EA Blank End Fittings (Wiremold #AL3310B).....  | 23.58                     | 5.62                    |
| 26 05 33 23-0361 EA End Fitting (Wiremold #AL3310B1).....  | 40.29                     | 13.36                   |
| 26 05 33 23-0362 EA Flat 90 Degree Elbow (Wiremold #AL3311).....   | 111.67                    | 17.42                   |
| <i>Note: Includes two (2) AL3301 couplings.</i>  |                           |                         |
| 26 05 33 23-0363 EA Tee Fitting (Wiremold #AL3315).....  | 128.96                    | 21.78                   |
| <i>Note: Includes three (3) AL3301 couplings.</i>  |                           |                         |
| 26 05 33 23-0364 EA Cross Fitting (Wiremold #AL3316).....  | 144.51                    | 21.78                   |
| <i>Note: Includes four (4) AL3301 couplings.</i>   |                           |                         |
| 26 05 33 23-0365 EA Internal Elbow (Wiremold #AL3317).....   | 103.25                    | 13.36                   |
| <i>Note: Includes two (2) AL3301 couplings.</i>  |                           |                         |
| 26 05 33 23-0366 EA External Elbow (Wiremold #AL3318).....   | 103.35                    | 13.36                   |
| <i>Note: Includes two (2) AL3301 couplings.</i>  |                           |                         |
| 26 05 33 23-0367 EA Duplex Receptacle Cover (Wiremold #AL3346D).....   | 23.51                     | 4.22                    |
| 26 05 33 23-0368 EA Single Receptacle Cover (Wiremold #AL3346E).....   | 23.37                     | 4.22                    |
| 26 05 33 23-0369 EA GFCI/Surge Receptacle Cover (Wiremold #AL3346G).....   | 23.14                     | 4.22                    |
| 26 05 33 23-0370 EA Single Device Cover Plate (Wiremold #AL3356R).....   | 22.82                     | 3.52                    |
| <b>26 05 33 23-0371 5" x 2" Two Piece Surface Aluminum Raceways (Wiremold #AL5200) (26 05 33 23-0315)</b>            |                           |                         |
| 26 05 33 23-0372 LF 5" x 2" Two Piece Surface Aluminum Raceway Base (Wiremold #AL5200B-10).....                      | 26.65                     | 6.32                    |
| <i>For Concrete Or Masonry Surface, Add</i>  | 0.68                      |                         |
| 26 05 33 23-0373 LF Aluminum Raceway Cover (Wiremold #AL5200C).....  | 10.00                     | 0.70                    |
| 26 05 33 23-0374 LF Divider (Wiremold #AL5200D).....   | 6.01                      | 0.70                    |
| 26 05 33 23-0375 EA Wire Clips For Conductors (Wiremold #AL5200WC).....  | 8.72                      | 3.52                    |
| 26 05 33 23-0376 EA Wire Clips For Conductors (Wiremold #AL5200WC2).....   | 7.56                      | 3.52                    |
| 26 05 33 23-0377 EA Wire Clips For Conductors (Wiremold #AL5200WC3).....   | 7.52                      | 3.52                    |
| 26 05 33 23-0378 EA Couplings (Wiremold #AL5201).....  | 18.59                     | 4.22                    |
| 26 05 33 23-0379 EA Cover Clip (Wiremold #AL5206).....   | 15.50                     | 4.22                    |
| 26 05 33 23-0380 EA Ground Adapter (Wiremold #AL5209).....   | 20.05                     | 4.22                    |
| 26 05 33 23-0381 EA Blank End Fittings (Wiremold #AL5210B).....  | 20.42                     | 5.62                    |
| 26 05 33 23-0382 EA Blank End Fittings (Wiremold #AL5210B1).....   | 21.63                     | 5.62                    |
| 26 05 33 23-0383 EA Blank End Fittings (Wiremold #AL5210B2).....   | 21.89                     | 5.62                    |
| 26 05 33 23-0384 EA Blank End Fittings (Wiremold #AL5210B3).....   | 21.35                     | 5.62                    |
| 26 05 33 23-0385 EA Flat 90 Degree Elbow (Wiremold #AL5211).....   | 103.24                    | 17.57                   |
| <i>Note: Includes two (2) pairs of AL5201 couplings.</i>   |                           |                         |
| 26 05 33 23-0386 EA Wall Box Connector (Wiremold #AL5214).....   | 86.79                     | 21.78                   |
| 26 05 33 23-0387 EA Tee Fitting (Wiremold #AL5215).....  | 121.66                    | 21.78                   |
| <i>Note: Includes three (3) pairs of AL5201 couplings.</i>   |                           |                         |
| 26 05 33 23-0388 EA Four Way Fitting (Wiremold #AL5216).....   | 131.98                    | 21.78                   |
| <i>Note: Includes four (4) pairs of AL5201 couplings.</i>  |                           |                         |
| 26 05 33 23-0389 EA Internal Elbow (Wiremold #AL5217).....   | 109.66                    | 21.78                   |
| <i>Note: Includes two (2) pairs of AL5201 couplings.</i>   |                           |                         |
| 26 05 33 23-0390 EA Internal Corner Coupling (Wiremold #AL5217A).....  | 55.32                     | 21.78                   |
| 26 05 33 23-0391 EA Inverted Internal Elbow (Wiremold #AL5217N).....   | 112.28                    | 21.78                   |
| 26 05 33 23-0392 EA External Elbow (Wiremold #AL5218).....   | 110.47                    | 21.78                   |
| <i>Note: Includes two (2) pairs of AL5201 couplings.</i>   |                           |                         |
| 26 05 33 23-0393 EA Blank Device Cover Plate (Wiremold #AL5246B).....  | 23.37                     | 4.22                    |
| 26 05 33 23-0394 EA Receptacle Device Cover Plate (Wiremold #AL5246D).....   | 27.15                     | 4.22                    |
| 26 05 33 23-0395 EA Double Receptacle Device Cover Plate (Wiremold #AL5246DD).....                                   | 31.67                     | 4.22                    |
| 26 05 33 23-0396 EA Device Cover Plate (Wiremold #AL5246F).....  | 29.88                     | 4.22                    |
| 26 05 33 23-0397 EA Device Cover Plate (Wiremold #AL5246G).....  | 27.82                     | 4.22                    |
| 26 05 33 23-0398 EA Offset Divider (Wiremold #AL5260).....   | 28.23                     | 9.14                    |
| <b>26 05 33 23-0399 3" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA3800) (26 05 33 23-0315)</b>       |                           |                         |
| 26 05 33 23-0400 LF Single Channel, 3" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA3800B-10)..... | 24.25                     | 6.32                    |
| 26 05 33 23-0401 EA Cover Clip (Wiremold #ALA3806).....  | 12.27                     | 4.22                    |
| 26 05 33 23-0402 EA Blank End Fittings (Wiremold #ALA3810B).....   | 20.27                     | 5.62                    |
| 26 05 33 23-0403 EA Entrance End Cap Fittings (Wiremold #ALA3810B1).....   | 21.49                     | 5.62                    |
| 26 05 33 23-0404 EA Flat 90 Degree Elbow (Wiremold #ALA3811).....  | 102.29                    | 17.57                   |
| <i>Note: Includes two (2) ALA01 couplings.</i>   |                           |                         |
| 26 05 33 23-0405 EA Flat Tee Fitting (Wiremold #ALA3815).....  | 108.08                    | 21.78                   |
| <i>Note: Includes three (3) ALA01 couplings.</i>   |                           |                         |
| 26 05 33 23-0406 EA Internal Elbow (Wiremold #ALA3817).....  | 105.77                    | 21.78                   |
| <i>Note: Includes two (2) ALA01 couplings.</i>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 33 23-0407 EA Inverted Internal Elbow (Wiremold #ALA3817N) .....<br>Note: Includes two (2) ALA01 couplings.   | 121.81                    | 21.78                   |
| 26 05 33 23-0408 EA External Elbow (Wiremold #ALA3818).....<br>Note: Includes two (2) ALA01 couplings.  | 106.96                    | 21.78                   |
| <b>26 05 33 23-0409 6" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA4800)</b><br><small>(26 05 33 23-0315)</small>  |                           |                         |
| 26 05 33 23-0410 LF Two Channel, 6" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA4800B-10).....   | 33.69                     | 6.32                    |
| 26 05 33 23-0411 EA Cover Clip (Wiremold #ALA4806).....   | 15.57                     | 4.22                    |
| 26 05 33 23-0412 EA Blank End Fittings (Wiremold #ALA4810B).....  | 20.46                     | 5.62                    |
| 26 05 33 23-0413 EA Entrance End Cap Fittings (Wiremold #ALA4810B2).....  | 22.28                     | 5.62                    |
| 26 05 33 23-0414 EA Flat 90 Degree Elbow (Wiremold #ALA4811).....<br>Note: Includes four (4) ALA01 couplings.   | 118.44                    | 17.57                   |
| 26 05 33 23-0415 EA Flat Tee Fitting (Wiremold #ALA4815).....<br>Note: Includes six (6) ALA01 couplings.  | 160.34                    | 21.78                   |
| 26 05 33 23-0416 EA Internal Elbow (Wiremold #ALA4817).....<br>Note: Includes four (4) ALA01 couplings.   | 113.78                    | 21.78                   |
| 26 05 33 23-0417 EA Inverted Internal Elbow (Wiremold #ALA4817N).....<br>Note: Includes four (4) ALA01 couplings.   | 130.94                    | 21.78                   |
| 26 05 33 23-0418 EA External Elbow (Wiremold #ALA4818).....<br>Note: Includes four (4) ALA01 couplings.   | 118.61                    | 21.78                   |
| <b>26 05 33 23-0419 Two Piece Surface Aluminum Raceways Fittings (Wiremold #ALA3800 And #ALA4800)</b><br><small>(26 05 33 23-0315)</small><br>See CSI section 26 27 26 00-0010 for receptacles. |                           |                         |
| 26 05 33 23-0420 LF 3" Wide Aluminum Raceway Cover (Wiremold #ALAC-5).....<br>Note: For use with ALA3800 single channel raceway and ALA4800 dual channel raceway.                               | 7.22                      | 0.70                    |
| 26 05 33 23-0421 EA Wire Clips (Wiremold #ALAWC).....   | 7.16                      | 3.52                    |
| 26 05 33 23-0422 EA Slide Couplings (Wiremold #ALA01).....  | 18.75                     | 4.22                    |
| 26 05 33 23-0423 EA Grounding Adapter (Wiremold #ALA09).....  | 16.73                     | 4.22                    |
| 26 05 33 23-0424 EA Bend Radius Control Insert For Flat Elbow (Wiremold #ALA11RI).....  | 45.81                     | 17.57                   |
| 26 05 33 23-0425 EA Internal Corner Coupling (Wiremold #ALA17A).....  | 55.29                     | 21.78                   |
| 26 05 33 23-0426 EA Bend Radius Control Insert For Internal And External Elbow (Wiremold #ALA17/18RI).....  | 49.43                     | 17.57                   |
| 26 05 33 23-0427 EA Blank Cover Plate (Wiremold #ALA-BL).....   | 18.20                     | 4.22                    |
| 26 05 33 23-0428 EA Duplex Receptacle Cover Plate (Wiremold #ALA-DR).....   | 19.19                     | 4.22                    |
| 26 05 33 23-0429 EA Single Receptacle Cover Plate, 1.40" Diameter Opening (Wiremold #ALA-E).....  | 19.84                     | 4.22                    |
| 26 05 33 23-0430 EA Single Receptacle Cover Plate, 1.59" Diameter Opening (Wiremold #ALA-F).....  | 26.55                     | 4.22                    |
| 26 05 33 23-0431 EA GFCI/Surge/Decorator Cover Plate (Wiremold #ALA-G).....   | 19.32                     | 4.22                    |
| 26 05 33 23-0432 EA Single Receptacle Cover Plate, 2.13" Diameter Opening (Wiremold #ALA-J).....  | 19.86                     | 4.22                    |
| 26 05 33 23-0433 EA Toggle Switch Cover Plate (Wiremold #ALA-N).....  | 20.28                     | 4.22                    |
| 26 05 33 23-0434 EA Active LPB Cover Plate (Wiremold #ALA-LPB).....   | 25.09                     | 4.22                    |
| 26 05 33 23-0435 EA Active MAB Cover Plate (Wiremold #ALA-MAB).....   | 23.78                     | 4.22                    |
| 26 05 33 23-0436 EA Ortronics Cover Plate (Wiremold #ALA-MABRT).....  | 26.91                     | 4.22                    |
| 26 05 33 23-0437 EA 1-3/4" x 2-3/4" Cover Plate (Wiremold #ALA-SG).....   | 25.39                     | 4.22                    |
| 26 05 33 23-0438 EA Active 2A Cover Plate (Wiremold #ALA-2A).....   | 26.11                     | 4.22                    |
| 26 05 33 23-0439 EA Ortronics Communications Cover Plate (Wiremold #ALA-ABRT).....  | 24.17                     | 4.22                    |
| 26 05 33 23-0440 EA 3/4" Grommet/Mousehole Cover Plate (Wiremold #ALA-Z).....   | 20.24                     | 4.22                    |
| 26 05 33 23-0441 EA Ortronics Low Profile Cover Plate (Wiremold #ALA-LPB3S2).....   | 24.35                     | 4.22                    |
| <b>26 05 33 23-0442 Surface Non-Metallic Raceways</b> <small>(26 05 33 23-0001)</small><br>Note: Exposed on flat wall surface.  |                           |                         |
| <b>26 05 33 23-0443 One Piece Surface Non-Metallic Raceways</b> <small>(26 05 33 23-0442)</small><br>Note: Exposed on flat wall surface. (Wiremold or approved equal).                          |                           |                         |
| <b>26 05 33 23-0444 7/8" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #400)</b> <small>(26 05 33 23-0443)</small>  |                           |                         |
| 26 05 33 23-0445 LF 7/8" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #400BAC).....<br><i>For Concrete Or Masonry Surface, Add</i>                                   | 8.24<br>0.28              | 2.82                    |
| 26 05 33 23-0446 EA Wire Clip (Wiremold #400WC).....  | 6.17                      | 2.82                    |
| 26 05 33 23-0447 EA Cover Clip (Wiremold #406).....   | 6.53                      | 2.82                    |
| 26 05 33 23-0448 EA Blank End Clip (Wiremold #410B).....  | 12.53                     | 5.62                    |
| 26 05 33 23-0449 EA Flat 90 Degree Elbow (Wiremold #411).....   | 14.72                     | 5.62                    |
| 26 05 33 23-0450 EA Tee (Wiremold #415).....  | 18.53                     | 7.02                    |
| 26 05 33 23-0451 EA Internal Elbow (Wiremold #417).....   | 14.44                     | 5.62                    |
| 26 05 33 23-0452 EA External Elbow (Wiremold #418).....   | 14.44                     | 5.62                    |
| <b>26 05 33 23-0453 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #800)</b> <small>(26 05 33 23-0443)</small>   |                           |                         |
| 26 05 33 23-0454 LF 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #800BAC).....<br><i>For Concrete Or Masonry Surface, Add</i>                                | 8.61<br>0.28              | 2.82                    |
| 26 05 33 23-0455 EA Wire Clip (Wiremold #800WC).....  | 6.12                      | 2.82                    |
| 26 05 33 23-0456 EA Cover Clip (Wiremold #806).....   | 6.23                      | 2.82                    |
| 26 05 33 23-0457 EA Entrance End Fitting (Wiremold #810A2).....   | 17.89                     | 5.62                    |
| 26 05 33 23-0458 EA Blank End Fitting (Wiremold #810B).....   | 12.32                     | 5.62                    |
| 26 05 33 23-0459 EA Flat 90 Degree Elbow (Wiremold #811).....   | 13.93                     | 5.62                    |
| 26 05 33 23-0460 EA Tee (Wiremold #815).....  | 17.49                     | 7.02                    |
| 26 05 33 23-0461 EA Internal Elbow (Wiremold #817).....   | 13.69                     | 5.62                    |
| 26 05 33 23-0462 EA External Elbow (Wiremold #818).....   | 13.69                     | 5.62                    |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR           | CSI            | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|-----|--|------------------------|----------------------|
| 26 05 33        | 23-0463        | EA  | End Reducer, #800 To #400 (Wiremold #889A).....  | 15.21                  | 5.62                 |
| <b>26 05 33</b> | <b>23-0464</b> |     | <b>2-1/4" x 11/16" One Piece Surface Non-Metallic Raceways (Wiremold #2300) (26 05 33 23-0443)</b>         |                        |                      |
| 26 05 33        | 23-0465        | LF  | 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2300BAC).....             | 9.80                   | 2.82                 |
|                 |                |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.28                   |                      |
| 26 05 33        | 23-0466        | LF  | 2-1/4" x 11/16" One Piece Surface Non-Metallic Divided Raceway Base And Cover (Wiremold #2300BACD).....    | 10.37                  | 2.82                 |
|                 |                |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.28                   |                      |
| 26 05 33        | 23-0467        | EA  | Wire Clip (Wiremold #2300WC).....  | 6.37                   | 2.82                 |
| 26 05 33        | 23-0468        | EA  | Cover Clip (Wiremold #2306).....   | 6.66                   | 2.82                 |
| 26 05 33        | 23-0469        | EA  | Entrance End Fitting (Wiremold #2310A).....  | 19.31                  | 5.62                 |
| 26 05 33        | 23-0470        | EA  | Blank End Fitting (Wiremold #2310B).....   | 12.88                  | 5.62                 |
| 26 05 33        | 23-0471        | EA  | Divided Entrance End Fitting (Wiremold #2310DFO).....  | 21.50                  | 5.62                 |
| 26 05 33        | 23-0472        | EA  | Flat 90 Degree Elbow (Wiremold #2311).....   | 14.17                  | 5.62                 |
| 26 05 33        | 23-0473        | EA  | Divided Flat 90 Degree Elbow (Wiremold #2311DFO).....  | 15.10                  | 5.62                 |
| 26 05 33        | 23-0474        | EA  | Tee (Wiremold #2315).....  | 17.64                  | 7.02                 |
| 26 05 33        | 23-0475        | EA  | Internal Elbow (Wiremold #2317).....   | 14.17                  | 5.62                 |
| 26 05 33        | 23-0476        | EA  | Divided Internal Elbow (Wiremold #2317DFO).....  | 15.11                  | 5.62                 |
| 26 05 33        | 23-0477        | EA  | External Elbow (Wiremold #2318).....   | 14.20                  | 5.62                 |
| 26 05 33        | 23-0478        | EA  | Divided External Elbow (Wiremold #2318DFO).....  | 15.28                  | 5.62                 |
| 26 05 33        | 23-0479        | EA  | End Reducer, #2300 To #400 (Wiremold #2389).....   | 15.29                  | 5.62                 |
| 26 05 33        | 23-0480        | EA  | End Reducer, #2300 To #800 (Wiremold #2389A).....  | 15.89                  | 5.62                 |
| <b>26 05 33</b> | <b>23-0481</b> |     | <b>One Piece Surface Non-Metallic Raceway Fittings (Wiremold #400, #800 Or #2300) (26 05 33 23-0443)</b>   |                        |                      |
| 26 05 33        | 23-0482        | EA  | Blank Cover, 4-1/2" Diameter (Wiremold #2336).....   | 16.61                  | 4.92                 |
| 26 05 33        | 23-0483        | EA  | Extension Box, 5-1/2" Diameter (Wiremold #2337A).....  | 26.48                  | 5.62                 |
| 26 05 33        | 23-0484        | EA  | -A Fixture Box, 5-1/2" Diameter (Wiremold #233).....   | 26.62                  | 5.62                 |
| 26 05 33        | 23-0485        | EA  | Extra Deep Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344).....                   | 24.19                  | 5.62                 |
| 26 05 33        | 23-0486        | EA  | Extra Deep Device Box, 2 Gang, 2-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344-2).....             | 27.76                  | 5.62                 |
| 26 05 33        | 23-0487        | EA  | Extra Deep Divided Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344D).....          | 26.21                  | 5.62                 |
| 26 05 33        | 23-0488        | EA  | Deep Divided Device Box, 2 Gang, 2-1/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344SD-2A).....        | 28.32                  | 5.62                 |
| 26 05 33        | 23-0489        | EA  | 1-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2347).....                      | 25.25                  | 9.14                 |
| 26 05 33        | 23-0490        | EA  | 2-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2347-2).....                | 28.39                  | 9.14                 |
| 26 05 33        | 23-0491        | EA  | 1-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348).....                          | 26.17                  | 9.14                 |
| 26 05 33        | 23-0492        | EA  | 2-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2348-2).....                    | 30.90                  | 9.14                 |
| 26 05 33        | 23-0493        | EA  | 3-Gang Deep Device Box, 1-3/4" Deep x 5" Long x 7" Wide (Wiremold #2348-3).....                            | 36.40                  | 9.14                 |
| 26 05 33        | 23-0494        | EA  | 1-Gang Deep Device Box With Magnetic Backing, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348AMP)..... | 34.65                  | 9.14                 |
| 26 05 33        | 23-0495        | EA  | 1-Gang Divided Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348D).....                 | 31.65                  | 9.14                 |
| 26 05 33        | 23-0496        | EA  | Shallow Device And Extension Box, 7/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348S/51).....              | 24.78                  | 9.14                 |
| <b>26 05 33</b> | <b>23-0497</b> |     | <b>3/4" x 3/8" One Piece Surface Non-Metallic Raceways (Wiremold #2700) (26 05 33 23-0443)</b>             |                        |                      |
| 26 05 33        | 23-0498        | LF  | 3/4" x 3/8" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2700).....                    | 7.34                   | 2.82                 |
|                 |                |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.28                   |                      |
| 26 05 33        | 23-0499        | EA  | 3/4" Wire Clip (Wiremold #2700WC).....   | 3.19                   | 1.40                 |
| 26 05 33        | 23-0500        | EA  | Cover Clip (Wiremold #2706).....   | 4.65                   | 1.40                 |
| 26 05 33        | 23-0501        | EA  | Blank End (Wiremold #2710B).....   | 7.43                   | 2.82                 |
| 26 05 33        | 23-0502        | EA  | Flat 90 Degree Elbow (Wiremold #2711).....   | 8.88                   | 3.52                 |
| 26 05 33        | 23-0503        | EA  | Tee (Wiremold #2715).....  | 14.52                  | 6.32                 |
| 26 05 33        | 23-0504        | EA  | Internal Elbow (Wiremold #2717).....   | 10.30                  | 4.22                 |
| 26 05 33        | 23-0505        | EA  | External Elbow (Wiremold #2718).....   | 10.28                  | 4.22                 |
| 26 05 33        | 23-0506        | EA  | Drop Ceiling Connector (Wiremold #2786).....   | 12.13                  | 4.92                 |
| <b>26 05 33</b> | <b>23-0507</b> |     | <b>1" x 1/2" One Piece Surface Non-Metallic Raceways (Wiremold #2800) (26 05 33 23-0443)</b>               |                        |                      |
| 26 05 33        | 23-0508        | LF  | 1" x 1/2" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2800).....                      | 9.25                   | 3.52                 |
|                 |                |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.35                   |                      |
| 26 05 33        | 23-0509        | EA  | 1" Wire Clip (Wiremold #2800WC).....   | 4.70                   | 2.10                 |
| 26 05 33        | 23-0510        | EA  | Cover Clip (Wiremold #2806).....   | 6.02                   | 2.10                 |
| 26 05 33        | 23-0511        | EA  | Blank End (Wiremold #2810B).....   | 8.82                   | 3.52                 |
| 26 05 33        | 23-0512        | EA  | Flat 90 Degree Elbow (Wiremold #2811).....   | 11.73                  | 4.92                 |
| 26 05 33        | 23-0513        | EA  | Radiused Flat 90 Degree Elbow (Wiremold #2811FO).....  | 12.38                  | 4.92                 |
| 26 05 33        | 23-0514        | EA  | Tee (Wiremold #2815).....  | 17.35                  | 7.73                 |
| 26 05 33        | 23-0515        | EA  | Internal Elbow (Wiremold #2817).....   | 13.10                  | 5.62                 |
| 26 05 33        | 23-0516        | EA  | External Elbow (Wiremold #2818).....   | 13.13                  | 5.62                 |
| 26 05 33        | 23-0517        | EA  | Radiused Tee (Wiremold #2815FO).....   | 18.22                  | 7.73                 |
| 26 05 33        | 23-0518        | EA  | Radiused Internal Elbow (Wiremold #2817FO).....  | 13.89                  | 5.62                 |
| 26 05 33        | 23-0519        | EA  | Radiused External Elbow (Wiremold #2818FO).....  | 13.78                  | 5.62                 |
| 26 05 33        | 23-0520        | EA  | Drop Ceiling Connector (Wiremold #2886).....   | 14.78                  | 6.32                 |
| 26 05 33        | 23-0521        | EA  | Reducer, #2800 To #2700 (Wiremold #2889).....  | 13.28                  | 5.62                 |
| <b>26 05 33</b> | <b>23-0522</b> |     | <b>1-1/2" x 3/4" One Piece Surface Non-Metallic Raceways (Wiremold #2900) (26 05 33 23-0443)</b>           |                        |                      |
| 26 05 33        | 23-0523        | LF  | 1-1/2" x 3/4" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2900).....                  | 11.22                  | 4.22                 |
|                 |                |     | <i>For Concrete Or Masonry Surface, Add</i>  | 0.42                   |                      |
| 26 05 33        | 23-0524        | EA  | 1-1/2" Wire Clip (Wiremold #2900WC).....   | 6.21                   | 2.82                 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 26 05 33 23-0525 EA Cover Clip (Wiremold #2906).....   | 7.55  | 2.82                    |
| 26 05 33 23-0526 EA Blank End (Wiremold #2910B).....   | 10.37   | 4.22                    |
| 26 05 33 23-0527 EA Flat 90 Degree Elbow (Wiremold #2911).....   | 13.18   | 5.62                    |
| 26 05 33 23-0528 EA Radiused Flat 90 Degree Elbow (Wiremold #2911FO).....  | 14.20   | 5.62                    |
| 26 05 33 23-0529 EA Tee (Wiremold #2915).....  | 18.80   | 8.44                    |
| 26 05 33 23-0530 EA Radiused Tee (Wiremold #2915FO).....   | 19.85   | 8.44                    |
| 26 05 33 23-0531 EA Internal Elbow (Wiremold #2917).....   | 14.59   | 6.32                    |
| 26 05 33 23-0532 EA Radiused Internal Elbow (Wiremold #2917FO).....  | 15.66   | 6.32                    |
| 26 05 33 23-0533 EA External Elbow (Wiremold #2918).....   | 14.58   | 6.32                    |
| 26 05 33 23-0534 EA Radiused External Elbow (Wiremold #2918FO).....  | 15.95   | 6.32                    |
| 26 05 33 23-0535 EA Drop Ceiling Connector (Wiremold #2986).....   | 14.76   | 6.32                    |
| 26 05 33 23-0536 EA Reducer, #2900 To #2800 (Wiremold #2989).....  | 16.41   | 7.02                    |
| 26 05 33 23-0537 EA Reducer, #2900 To #2700 (Wiremold #2989A).....   | 16.06   | 7.02                    |
| <br>   |   |                         |
| <b>26 05 33 23-0538</b>  | <b>Two Piece Surface Non-Metallic Raceways</b> <small>(26 05 33 23-0442)</small>                                      |                         |
|  | Note: Exposed on flat wall surface. (Wiremold or approved equal).   |                         |
| <b>26 05 33 23-0539</b>  | <b>5" x 1" Two Piece Surface Non-Metallic Raceways (Wiremold #500)</b> <small>(26 05 33 23-0539)</small>              |                         |
| 26 05 33 23-0540 LF 5" x 1" Two Piece Surface Non-Metallic Raceway Base (Wiremold #5000B).....   | 17.67   | 6.32                    |
|  | <i>For Concrete Or Masonry Surface, Add</i>   | <i>0.63</i>             |
| 26 05 33 23-0541 LF Black, Gray Or White, Cover (Wiremold #5000C).....   | 16.90   | 6.32                    |
| 26 05 33 23-0542 LF Oak Veneer, Cover (Wiremold #5000COA).....   | 29.92   | 6.32                    |
| 26 05 33 23-0543 LF Maple Wood Veneer, Cover (Wiremold #5000CW).....   | 24.77   | 6.32                    |
| 26 05 33 23-0544 LF Black, Gray Or White, Quarter Round Trim (Wiremold #5000T).....  | 2.32  | 0.70                    |
| 26 05 33 23-0545 LF Oak Veneer, Quarter Round Trim (Wiremold #5000TOA).....  | 8.85  | 0.70                    |
| 26 05 33 23-0546 LF Maple Wood Veneer, Quarter Round Trim (Wiremold #5000TW).....  | 5.58  | 0.70                    |
| 26 05 33 23-0547 EA Base Coupling (Wiremold #5001).....  | 16.70   | 7.02                    |
| 26 05 33 23-0548 EA Blank/Coax Adapter (Wiremold #5004).....   | 9.21  | 3.52                    |
| 26 05 33 23-0549 EA Low Voltage Blank Plate (Wiremold #5005).....  | 12.16   | 4.22                    |
| 26 05 33 23-0550 EA Cover Clip (Wiremold #5006).....   | 17.79   | 7.02                    |
| 26 05 33 23-0551 EA Internal Wire Guard (Wiremold #5006A).....   | 16.80   | 7.02                    |
| 26 05 33 23-0552 EA Device Bracket (Wiremold #5007C).....  | 18.84   | 7.02                    |
| 26 05 33 23-0553 EA Device Plate (Wiremold #5007C-1).....  | 34.57   | 14.06                   |
| 26 05 33 23-0554 EA Deep Device Plate (Wiremold #5007C-2).....   | 35.62   | 14.06                   |
| 26 05 33 23-0555 EA Right Or Left End Cap (Wiremold #5010).....  | 30.53   | 13.36                   |
| 26 05 33 23-0556 EA Entrance End Feed (Wiremold #5010A).....   | 57.71   | 21.78                   |
| 26 05 33 23-0557 EA Internal Base Elbow (Wiremold #5017B).....   | 40.93   | 17.57                   |
| 26 05 33 23-0558 EA Internal Cover Elbow (Wiremold #5017C).....  | 36.32   | 14.06                   |
| 26 05 33 23-0559 EA Internal Elbow Wire Guard (Wiremold #5017WG).....  | 25.19   | 10.54                   |
| 26 05 33 23-0560 EA External Base Elbow (Wiremold #5018B).....   | 40.86   | 17.57                   |
| 26 05 33 23-0561 EA External Cover Elbow (Wiremold #5018C).....  | 36.60   | 14.06                   |
| 26 05 33 23-0562 EA External Elbow Wire Guard (Wiremold #5018WG).....  | 16.52   | 7.02                    |
| <br>   |   |                         |
| <b>26 05 33 23-0563</b>  | <b>5-1/4" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5400)</b> <small>(26 05 33 23-0538)</small>   |                         |
| 26 05 33 23-0564 LF 5-1/4" x 1-11/16", Two Compartment, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5400TB).....              | 18.71   | 6.32                    |
|  | <i>For Concrete Or Masonry Surface, Add</i>   | <i>0.63</i>             |
| 26 05 33 23-0565 LF Full Width Cover (Wiremold #5400C).....  | 5.84  | 0.70                    |
| 26 05 33 23-0566 LF Twin Snap Cover (Wiremold #5400TC).....  | 3.87  | 0.70                    |
| 26 05 33 23-0567 EA Twin Snap Cover Wire Clips (Wiremold #5400TWC).....  | 7.67  | 3.52                    |
| 26 05 33 23-0568 EA Cover Clip (Wiremold #5406A).....  | 12.20   | 4.22                    |
| 26 05 33 23-0569 EA Twin Cover Clip (Wiremold #5406T).....   | 10.57   | 4.22                    |
| 26 05 33 23-0570 EA Base Seam Clip (Wiremold #5406TB).....   | 9.65  | 4.22                    |
| 26 05 33 23-0571 EA L Or R (Left Or Right) Transition Fitting (Wiremold #5408).....  | 68.55   | 21.78                   |
| 26 05 33 23-0572 EA End Cap (Wiremold #5410).....  | 34.76   | 13.36                   |
| 26 05 33 23-0573 EA Radiused Divided Entrance Cap Fitting (Wiremold #5410DFO).....   | 66.13   | 21.78                   |
| 26 05 33 23-0574 EA Radiused Flat 90 Degree Elbow (Wiremold #5411FO).....  | 59.37   | 17.57                   |
| 26 05 33 23-0575 EA Tee Fitting (Wiremold #5415).....  | 69.13   | 21.78                   |
| 26 05 33 23-0576 EA Radiused Tee Fitting (Wiremold #5415FO).....   | 71.94   | 21.78                   |
| 26 05 33 23-0577 EA Radiused Internal Elbow (Wiremold #5417FO).....  | 58.82   | 21.78                   |
| 26 05 33 23-0578 EA External Elbow (Wiremold #5418).....   | 59.52   | 21.78                   |
| 26 05 33 23-0579 EA Radiused External Elbow (Wiremold #5418FO).....  | 60.17   | 21.78                   |
| 26 05 33 23-0580 EA 5-5/32" x 6" Device Bracket (Wiremold #5450).....  | 26.96   | 7.02                    |
| 26 05 33 23-0581 EA 7-19/32" x 7-1/2" Device Bracket (Wiremold #5450A3).....   | 34.63   | 7.02                    |
| 26 05 33 23-0582 EA 2-1/2" x 4-7/8" Twin Snap Device Bracket (Wiremold #5450T).....  | 21.29   | 7.02                    |
| 26 05 33 23-0583 EA Transition Fitting (Wiremold #5474).....   | 61.49   | 21.78                   |
| <br>   |   |                         |
| <b>26 05 33 23-0584</b>  | <b>6-11/16" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5500)</b> <small>(26 05 33 23-0538)</small> |                         |
| 26 05 33 23-0585 LF 6-11/16" x 1-11/16", Three Compartment Divided, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5500BD3)..... | 22.64   | 6.32                    |
|  | <i>For Concrete Or Masonry Surface, Add</i>   | <i>0.63</i>             |
| 26 05 33 23-0586 LF Cover (Wiremold #5500C).....   | 7.53  | 0.70                    |
| 26 05 33 23-0587 EA Wire Clips (Wiremold #5500WC).....   | 8.68  | 3.52                    |
| 26 05 33 23-0588 EA Cover Clip (Wiremold #5506).....   | 13.45   | 4.22                    |
| 26 05 33 23-0589 EA Base Seam Clip Fitting (Wiremold #5506B).....  | 10.07   | 4.22                    |
| 26 05 33 23-0590 EA Modular Furniture Adapter (Wiremold #5507AD).....  | 12.67   | 4.22                    |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 26 05 33 23-0591                                   | EA  |     | Blank Faceplate (Wiremold #5507B) .....  | 12.71                  | 4.22                 |
| 26 05 33 23-0592                                   | EA  |     | Duplex Receptacle Faceplate (Wiremold #5507D) .....  | 12.77                  | 4.22                 |
| 26 05 33 23-0593                                   | EA  |     | Dual RJ Connector Faceplate (Wiremold #5507FRJ) .....  | 12.77                  | 4.22                 |
| 26 05 33 23-0594                                   | EA  |     | Rectangular Receptacle Faceplate (Wiremold #5507R) .....   | 12.65                  | 4.22                 |
| 26 05 33 23-0595                                   | EA  |     | Dual RJ Connector Faceplate (Wiremold #5507RJ) .....   | 12.68                  | 4.22                 |
| 26 05 33 23-0596                                   | EA  |     | Rectangular Spacer Fitting (Wiremold #5507S) .....   | 12.60                  | 4.22                 |
| 26 05 33 23-0597                                   | EA  |     | Switch Faceplate (Wiremold #5507SW) .....  | 12.63                  | 4.22                 |
| 26 05 33 23-0598                                   | EA  |     | Twistlock Faceplate (Wiremold #5507T1) .....   | 12.71                  | 4.22                 |
| 26 05 33 23-0599                                   | EA  |     | Single Receptacle Faceplate (Wiremold #5507T2) .....   | 12.48                  | 4.22                 |
| 26 05 33 23-0600                                   | EA  |     | 6-5/8" x 6" Device Bracket (Wiremold #5550) .....  | 31.50                  | 7.02                 |
| 26 05 33 23-0601                                   | EA  |     | 9-5/8" x 7-1/2" Device Bracket (Wiremold #5550A4) .....  | 41.32                  | 7.02                 |
| 26 05 33 23-0602                                   | EA  |     | End Cap (Wiremold #5510) .....   | 37.16                  | 13.36                |
| 26 05 33 23-0603                                   | EA  |     | Entrance End Fitting (Wiremold #5510D) .....   | 73.80                  | 21.78                |
| 26 05 33 23-0604                                   | EA  |     | Radiused Flat 90 Degree Elbow (Wiremold #5511FO) .....   | 66.41                  | 17.57                |
| 26 05 33 23-0605                                   | EA  |     | Backfeed Connector (Wiremold #5514A) .....   | 54.82                  | 17.57                |
| 26 05 33 23-0606                                   | EA  |     | Tee Fitting (Wiremold #5515) .....   | 77.13                  | 21.78                |
| 26 05 33 23-0607                                   | EA  |     | Radiused Internal Elbow (Wiremold #5517FO) .....   | 63.71                  | 21.78                |
| 26 05 33 23-0608                                   | EA  |     | External Elbow (Wiremold #5518) .....  | 65.05                  | 21.78                |
| 26 05 33 23-0609                                   | EA  |     | Radiused External Elbow (Wiremold #5518FO) .....   | 67.88                  | 21.78                |
| 26 05 33 23-0610                                   | EA  |     | Transition Fitting (Wiremold #5574) .....  | 62.35                  | 21.78                |
| 26 05 33 23-0611                                   | EA  |     | Transition Fitting (Wiremold #5574A) .....   | 80.70                  | 21.78                |
| <b>26 05 33 23-0612</b>                            |     |     | <b>Surface Cable Protection System</b> (26 05 33 23)   |                        |                      |
| 26 05 33 23-0613                                   | EA  |     | 35-1/2" Long x 18-9/16" Wide x 3" High, Three Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-3) .....   | 626.44                 |                      |
|  |     |     | Note: Modular interlocking design with hinged lid.   |                        |                      |
| 26 05 33 23-0614                                   | EA  |     | 35-3/4" Long x 19-3/4" Wide x 1-7/8" High, Five Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-5) ..... | 473.46                 |                      |
|  |     |     | Note: Modular interlocking design with hinged lid.   |                        |                      |
| <b>26 05 36 Cable Trays for Electrical Systems</b> |     |     |  |                        |                      |
| <b>26 05 36 00-0001</b>                            |     |     | <b>Cable Trays</b> (26 05 36)  |                        |                      |
|  |     |     | Note: Excludes supporting hangers.   |                        |                      |
| 26 05 36 00-0002                                   |     |     | Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0001)   |                        |                      |
| 26 05 36 00-0003                                   |     |     | 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0002)   |                        |                      |
| 26 05 36 00-0004                                   |     |     | 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)                              |                        |                      |
| 26 05 36 00-0005                                   | LF  |     | 6" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                  | 46.17                  | 14.77                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -3.38                  |                      |
| 26 05 36 00-0006                                   | LF  |     | 9" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                  | 49.82                  | 15.85                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -3.67                  |                      |
| 26 05 36 00-0007                                   | LF  |     | 12" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 54.42                  | 17.07                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -4.01                  |                      |
| 26 05 36 00-0008                                   | LF  |     | 18" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 60.24                  | 18.15                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -4.52                  |                      |
| 26 05 36 00-0009                                   | LF  |     | 24" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 65.74                  | 18.76                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -5.02                  |                      |
| 26 05 36 00-0010                                   | LF  |     | 30" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 79.70                  | 21.69                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -6.17                  |                      |
| 26 05 36 00-0011                                   | LF  |     | 36" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 89.58                  | 24.76                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -6.90                  |                      |
| <b>26 05 36 00-0012</b>                            |     |     | <b>6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0003)                       |                        |                      |
| 26 05 36 00-0013                                   | LF  |     | 6" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                  | 43.74                  | 14.46                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -3.16                  |                      |
| 26 05 36 00-0014                                   | LF  |     | 9" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                  | 47.23                  | 15.39                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -3.44                  |                      |
| 26 05 36 00-0015                                   | LF  |     | 12" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 50.51                  | 16.77                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -3.65                  |                      |
| 26 05 36 00-0016                                   | LF  |     | 18" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 55.11                  | 17.69                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -4.04                  |                      |
| 26 05 36 00-0017                                   | LF  |     | 24" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 59.17                  | 18.30                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -4.40                  |                      |
| 26 05 36 00-0018                                   | LF  |     | 30" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 69.41                  | 21.08                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -5.19                  |                      |
| 26 05 36 00-0019                                   | LF  |     | 36" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                 | 75.89                  | 23.07                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -5.66                  |                      |
| <b>26 05 36 00-0020</b>                            |     |     | <b>9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0003)                       |                        |                      |
| 26 05 36 00-0021                                   | LF  |     | 6" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray .....                                  | 42.24                  | 14.30                |
|  |     |     | For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -3.04                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0022 LF 9" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 43.53                     | 14.77                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.12                     |                         |
| 26 05 36 00-0023 LF 12" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 47.74                     | 15.69                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.47                     |                         |
| 26 05 36 00-0024 LF 18" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 52.08                     | 16.46                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.83                     |                         |
| 26 05 36 00-0025 LF 24" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 56.12                     | 16.92                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -4.20                     |                         |
| 26 05 36 00-0026 LF 30" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 61.14                     | 18.46                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -4.58                     |                         |
| 26 05 36 00-0027 LF 36" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 65.75                     | 19.99                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -4.91                     |                         |
| <br>   |                           |                         |
| <b>26 05 36 00-0028 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> <small>(26 05 36 00-0003)</small>                              |                           |                         |
| 26 05 36 00-0029 LF 6" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 40.93                     | 13.69                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -2.95                     |                         |
| 26 05 36 00-0030 LF 9" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 41.78                     | 13.99                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.01                     |                         |
| 26 05 36 00-0031 LF 12" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 44.22                     | 14.77                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.19                     |                         |
| 26 05 36 00-0032 LF 18" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 46.80                     | 15.54                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.39                     |                         |
| 26 05 36 00-0033 LF 24" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 48.55                     | 15.54                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.56                     |                         |
| 26 05 36 00-0034 LF 30" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 53.50                     | 16.77                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.96                     |                         |
| 26 05 36 00-0035 LF 36" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 56.33                     | 17.54                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -4.17                     |                         |
| <br>   |                           |                         |
| <b>26 05 36 00-0036 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> <small>(26 05 36 00-0003)</small>                              |                           |                         |
| 26 05 36 00-0037 LF 6" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 40.35                     | 13.38                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -2.92                     |                         |
| 26 05 36 00-0038 LF 9" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....  | 41.06                     | 13.69                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -2.96                     |                         |
| 26 05 36 00-0039 LF 12" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 43.50                     | 14.46                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.15                     |                         |
| 26 05 36 00-0040 LF 18" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 45.66                     | 15.08                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.31                     |                         |
| 26 05 36 00-0041 LF 24" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 46.36                     | 15.23                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.37                     |                         |
| 26 05 36 00-0042 LF 30" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 49.33                     | 16.31                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.57                     |                         |
| 26 05 36 00-0043 LF 36" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....   | 51.50                     | 17.23                   |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -3.72                     |                         |
| <br>   |                           |                         |
| <b>26 05 36 00-0044 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-0002)</small>   |                           |                         |
| <br>   |                           |                         |
| <b>26 05 36 00-0045 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0046 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                         | 373.46                    | 154.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -24.49                    |                         |
| 26 05 36 00-0047 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                         | 418.52                    | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -27.21                    |                         |
| 26 05 36 00-0048 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                        | 460.41                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -29.86                    |                         |
| 26 05 36 00-0049 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                        | 574.22                    | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -37.58                    |                         |
| 26 05 36 00-0050 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                        | 655.17                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -42.74                    |                         |
| 26 05 36 00-0051 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                        | 775.09                    | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -51.87                    |                         |
| 26 05 36 00-0052 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                        | 892.73                    | 351.63                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -59.97                    |                         |
| <br>   |                           |                         |
| <b>26 05 36 00-0053 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 05 36 00-0054        | EA  | 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 507.62                    | 160.44                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -37.39                    |                         |
| 26 05 36 00-0055        | EA  | 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 554.98                    | 184.43                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -40.13                    |                         |
| 26 05 36 00-0056        | EA  | 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 598.65                    | 205.05                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -42.77                    |                         |
| 26 05 36 00-0057        | EA  | 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 701.59                    | 254.72                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -48.94                    |                         |
| 26 05 36 00-0058        | EA  | 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 789.85                    | 295.50                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -54.37                    |                         |
| 26 05 36 00-0059        | EA  | 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 882.28                    | 335.33                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.28                    |                         |
| 26 05 36 00-0060        | EA  | 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 1,031.70                  | 388.40                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -70.80                    |                         |
| <b>26 05 36 00-0061</b> |     | <b>36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0062        | EA  | 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 545.52                    | 167.66                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -40.58                    |                         |
| 26 05 36 00-0063        | EA  | 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 604.25                    | 194.12                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -44.25                    |                         |
| 26 05 36 00-0064        | EA  | 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 655.87                    | 217.20                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -47.48                    |                         |
| 26 05 36 00-0065        | EA  | 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 791.89                    | 273.34                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -56.41                    |                         |
| 26 05 36 00-0066        | EA  | 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 904.36                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -63.69                    |                         |
| 26 05 36 00-0067        | EA  | 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 1,058.70                  | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -75.11                    |                         |
| 26 05 36 00-0068        | EA  | 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 1,206.91                  | 433.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -84.55                    |                         |
| <b>26 05 36 00-0069</b> |     | <b>12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0070        | EA  | 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 276.84                    | 111.83                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -48.51                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -87.05                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -18.37                    |                         |
| 26 05 36 00-0071        | EA  | 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 317.68                    | 134.13                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -53.44                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -96.52                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -20.60                    |                         |
| 26 05 36 00-0072        | EA  | 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 354.29                    | 153.82                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -57.95                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -105.13                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -22.61                    |                         |
| 26 05 36 00-0073        | EA  | 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 427.45                    | 194.43                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -66.54                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -121.70                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -26.55                    |                         |
| 26 05 36 00-0074        | EA  | 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 529.88                    | 238.12                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -83.58                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -152.54                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -33.15                    |                         |
| 26 05 36 00-0075        | EA  | 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 625.61                    | 273.34                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -101.66                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -184.62                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -39.78                    |                         |
| 26 05 36 00-0076        | EA  | 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 712.21                    | 320.87                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -112.02                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -204.52                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -44.48                    |                         |



|  | MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|-------------|------------------------|----------------------|
|--|-------|-----|-----|-------------|------------------------|----------------------|

|                  |    |  |  |  |         |        |
|------------------|----|--|--|--|---------|--------|
| 26 05 36 00-0077 |    |  |  | 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small> |         |        |
| 26 05 36 00-0078 | EA |  |  | 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                    | 306.74  | 115.36 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -57.02  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -101.44 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -21.06  |        |
| 26 05 36 00-0079 | EA |  |  | 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                    | 353.73  | 139.05 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -63.42  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -113.43 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -23.78  |        |
| 26 05 36 00-0080 | EA |  |  | 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 404.33  | 160.59 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -71.88  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -128.72 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -27.05  |        |
| 26 05 36 00-0081 | EA |  |  | 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 482.25  | 205.05 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -80.52  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -145.60 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -31.13  |        |
| 26 05 36 00-0082 | EA |  |  | 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 594.43  | 254.72 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -98.54  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -178.38 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -38.22  |        |
| 26 05 36 00-0083 | EA |  |  | 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 695.63  | 295.50 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -116.31 |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -210.26 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -44.94  |        |
| 26 05 36 00-0084 | EA |  |  | 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 819.01  | 351.79 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -135.45 |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -245.28 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -52.59  |        |
| 26 05 36 00-0085 |    |  |  | 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small> |         |        |
| 26 05 36 00-0086 | EA |  |  | 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                    | 362.77  | 119.06 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -74.10  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -130.11 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -26.36  |        |
| 26 05 36 00-0087 | EA |  |  | 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                    | 414.62  | 144.59 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -81.41  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -143.71 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -29.41  |        |
| 26 05 36 00-0088 | EA |  |  | 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 457.05  | 167.82 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -86.50  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -153.49 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -31.72  |        |
| 26 05 36 00-0089 | EA |  |  | 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 554.25  | 217.20 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -99.62  |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -178.10 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -37.32  |        |
| 26 05 36 00-0090 | EA |  |  | 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 658.87  | 273.34 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -112.63 |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -202.91 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -43.11  |        |
| 26 05 36 00-0091 | EA |  |  | 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 797.20  | 320.87 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -140.06 |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -251.27 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -52.98  |        |
| 26 05 36 00-0092 | EA |  |  | 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                   | 939.32  | 388.40 |
|                  |    |  |  | <i>For 60 Degree Bend, Deduct</i> .....  | -161.07 |        |
|                  |    |  |  | <i>For 30 Degree Bend, Deduct</i> .....  | -290.04 |        |
|                  |    |  |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -61.56  |        |
| 26 05 36 00-0093 |    |  |  | 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>   |         |        |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 05 36 00-0094        | EA  | 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 399.89                    | 153.82                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -27.17                    |                         |
| 26 05 36 00-0095        | EA  | 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 439.70                    | 175.67                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -29.33                    |                         |
| 26 05 36 00-0096        | EA  | 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 475.46                    | 194.28                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -31.36                    |                         |
| 26 05 36 00-0097        | EA  | 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 555.22                    | 238.12                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -35.68                    |                         |
| 26 05 36 00-0098        | EA  | 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 620.59                    | 273.34                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -39.28                    |                         |
| 26 05 36 00-0099        | EA  | 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 690.89                    | 307.65                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -43.45                    |                         |
| 26 05 36 00-0100        | EA  | 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 770.08                    | 351.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -47.74                    |                         |
| <b>26 05 36 00-0101</b> |     | <b>24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High,<br/>Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0102        | EA  | 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 470.34                    | 160.44                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -33.66                    |                         |
| 26 05 36 00-0103        | EA  | 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 515.50                    | 184.58                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -36.17                    |                         |
| 26 05 36 00-0104        | EA  | 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 557.93                    | 205.05                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -38.70                    |                         |
| 26 05 36 00-0105        | EA  | 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 652.10                    | 254.72                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -43.99                    |                         |
| 26 05 36 00-0106        | EA  | 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 731.59                    | 295.50                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -48.54                    |                         |
| 26 05 36 00-0107        | EA  | 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 811.34                    | 335.33                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -53.19                    |                         |
| 26 05 36 00-0108        | EA  | 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 931.14                    | 388.40                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -60.74                    |                         |
| <b>26 05 36 00-0109</b> |     | <b>36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High,<br/>Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0110        | EA  | 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 553.31                    | 167.66                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -41.36                    |                         |
| 26 05 36 00-0111        | EA  | 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 607.43                    | 194.28                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -44.56                    |                         |
| 26 05 36 00-0112        | EA  | 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 649.14                    | 217.20                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -46.81                    |                         |
| 26 05 36 00-0113        | EA  | 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 765.76                    | 273.34                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -53.79                    |                         |
| 26 05 36 00-0114        | EA  | 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 848.27                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -58.09                    |                         |
| 26 05 36 00-0115        | EA  | 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 971.60                    | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -66.40                    |                         |
| 26 05 36 00-0116        | EA  | 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 1,102.26                  | 433.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -74.08                    |                         |
| <b>26 05 36 00-0117</b> |     | <b>12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>           |                           |                         |
| 26 05 36 00-0118        | EA  | 6" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting .....                                      | 722.28                    | 295.50                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -47.61                    |                         |
| 26 05 36 00-0119        | EA  | 9" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting .....                                      | 781.89                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -51.45                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0120 EA 12" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 819.72                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -54.02                    |                         |
| 26 05 36 00-0121 EA 18" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 913.80                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -60.62                    |                         |
| 26 05 36 00-0122 EA 24" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,033.03                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -69.15                    |                         |
| 26 05 36 00-0123 EA 30" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,142.81                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -78.07                    |                         |
| 26 05 36 00-0124 EA 36" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,293.45                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -88.35                    |                         |
| <b>26 05 36 00-0125 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0126 EA 6" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                      | 895.12                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -62.77                    |                         |
| 26 05 36 00-0127 EA 9" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                      | 963.65                    | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -67.05                    |                         |
| 26 05 36 00-0128 EA 12" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,006.44                  | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -69.88                    |                         |
| 26 05 36 00-0129 EA 18" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,105.08                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -76.36                    |                         |
| 26 05 36 00-0130 EA 24" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,228.90                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -84.43                    |                         |
| 26 05 36 00-0131 EA 30" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,320.90                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -91.09                    |                         |
| 26 05 36 00-0132 EA 36" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,588.81                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -111.52                   |                         |
| <b>26 05 36 00-0133 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0134 EA 6" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                      | 1,124.92                  | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -83.18                    |                         |
| 26 05 36 00-0135 EA 9" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                      | 1,206.69                  | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -88.30                    |                         |
| 26 05 36 00-0136 EA 12" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,280.08                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -93.86                    |                         |
| 26 05 36 00-0137 EA 18" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,410.75                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -102.62                   |                         |
| 26 05 36 00-0138 EA 24" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,601.97                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -116.30                   |                         |
| 26 05 36 00-0139 EA 30" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,736.36                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -126.28                   |                         |
| 26 05 36 00-0140 EA 36" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                     | 1,965.41                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -140.65                   |                         |
| <b>26 05 36 00-0141 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>   |                           |                         |
| 26 05 36 00-0142 EA 6" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                        | 846.79                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -61.90                    |                         |
| 26 05 36 00-0143 EA 9" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                        | 868.18                    | 284.11                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -63.14                    |                         |
| 26 05 36 00-0144 EA 12" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                       | 890.41                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -64.42                    |                         |
| 26 05 36 00-0145 EA 18" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                       | 939.73                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -67.23                    |                         |
| 26 05 36 00-0146 EA 24" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting.....                       | 970.70                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -69.12                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-0147        | EA  |     | 30" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,054.48               | 369.17               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -74.68                 |                      |
| 26 05 36 00-0148        | EA  |     | 36" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,139.40               | 409.78               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -79.79                 |                      |
| <b>26 05 36 00-0149</b> |     |     | <b>24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>      |                        |                      |
| 26 05 36 00-0150        | EA  |     | 6" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,199.23               | 295.50               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -95.30                 |                      |
| 26 05 36 00-0151        | EA  |     | 9" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,229.86               | 307.65               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -97.35                 |                      |
| 26 05 36 00-0152        | EA  |     | 12" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,262.26               | 320.87               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -99.48                 |                      |
| 26 05 36 00-0153        | EA  |     | 18" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,334.22               | 351.79               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -104.11                |                      |
| 26 05 36 00-0154        | EA  |     | 24" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,383.88               | 369.17               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -107.62                |                      |
| 26 05 36 00-0155        | EA  |     | 30" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,472.23               | 409.78               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -113.07                |                      |
| 26 05 36 00-0156        | EA  |     | 36" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,592.61               | 461.46               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -120.81                |                      |
| <b>26 05 36 00-0157</b> |     |     | <b>36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>      |                        |                      |
| 26 05 36 00-0158        | EA  |     | 6" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,855.87               | 320.87               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -158.85                |                      |
| 26 05 36 00-0159        | EA  |     | 9" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,897.14               | 335.33               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -161.77                |                      |
| 26 05 36 00-0160        | EA  |     | 12" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,941.55               | 351.79               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -164.84                |                      |
| 26 05 36 00-0161        | EA  |     | 18" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 2,019.90               | 388.40               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -169.62                |                      |
| 26 05 36 00-0162        | EA  |     | 24" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 2,072.69               | 409.78               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -173.12                |                      |
| 26 05 36 00-0163        | EA  |     | 30" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 2,210.23               | 461.46               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -182.57                |                      |
| 26 05 36 00-0164        | EA  |     | 36" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 2,336.26               | 526.84               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -189.73                |                      |
| <b>26 05 36 00-0165</b> |     |     | <b>12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                        |                      |
| 26 05 36 00-0166        | EA  |     | 6" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 900.07                 | 369.17               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -59.24                 |                      |
| 26 05 36 00-0167        | EA  |     | 9" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 945.92                 | 388.40               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -62.22                 |                      |
| 26 05 36 00-0168        | EA  |     | 12" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,009.01               | 409.78               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -66.75                 |                      |
| 26 05 36 00-0169        | EA  |     | 18" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,081.05               | 434.55               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -71.90                 |                      |
| 26 05 36 00-0170        | EA  |     | 24" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,217.96               | 491.92               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -80.80                 |                      |
| 26 05 36 00-0171        | EA  |     | 30" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,354.92               | 526.84               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -91.59                 |                      |
| 26 05 36 00-0172        | EA  |     | 36" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,479.01               | 568.37               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -100.54                |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 36 00-0173</b> <b>24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>     |                           |                         |
| 26 05 36 00-0174     EA     6" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,235.47                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -89.40                    |                         |
| 26 05 36 00-0175     EA     9" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,293.79                  | 434.55                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -93.17                    |                         |
| 26 05 36 00-0176     EA     12" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,355.85                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -97.13                    |                         |
| 26 05 36 00-0177     EA     18" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,444.43                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -103.45                   |                         |
| 26 05 36 00-0178     EA     24" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,612.83                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -113.92                   |                         |
| 26 05 36 00-0179     EA     30" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,735.75                  | 615.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -122.30                   |                         |
| 26 05 36 00-0180     EA     36" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,941.39                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -138.24                   |                         |
| <br><b>26 05 36 00-0181</b> <b>36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small> |                           |                         |
| 26 05 36 00-0182     EA     6" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,541.14                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -115.66                   |                         |
| 26 05 36 00-0183     EA     9" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,626.28                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -121.63                   |                         |
| 26 05 36 00-0184     EA     12" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,718.64                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -127.97                   |                         |
| 26 05 36 00-0185     EA     18" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,873.61                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -140.00                   |                         |
| 26 05 36 00-0186     EA     24" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 2,147.26                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -158.83                   |                         |
| 26 05 36 00-0187     EA     30" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 2,343.76                  | 737.12                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -172.95                   |                         |
| 26 05 36 00-0188     EA     36" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 2,569.46                  | 821.10                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -188.52                   |                         |
| <br><b>26 05 36 00-0189</b> <b>12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>   |                           |                         |
| 26 05 36 00-0190     EA     6" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              | 1,028.23                  | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -72.06                    |                         |
| 26 05 36 00-0191     EA     9" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              | 1,080.47                  | 388.56                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -75.67                    |                         |
| 26 05 36 00-0192     EA     12" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,155.57                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -81.41                    |                         |
| 26 05 36 00-0193     EA     18" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,241.91                  | 434.70                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -87.97                    |                         |
| 26 05 36 00-0194     EA     24" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,397.08                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -98.71                    |                         |
| 26 05 36 00-0195     EA     30" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,569.95                  | 526.99                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -113.08                   |                         |
| 26 05 36 00-0196     EA     36" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,717.18                  | 567.60                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -124.42                   |                         |
| <br><b>26 05 36 00-0197</b> <b>24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>   |                           |                         |
| 26 05 36 00-0198     EA     6" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              | 1,484.06                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -114.25                   |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0199 EA 9" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                 | 1,550.10<br>-118.80       | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0200 EA 12" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 1,619.89<br>-123.53       | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0201 EA 18" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 1,725.45<br>-131.55       | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0202 EA 24" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 1,912.38<br>-143.88       | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0203 EA 30" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,055.37<br>-154.26       | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0204 EA 36" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,311.96<br>-175.30       | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| <b>26 05 36 00-0205 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>            |                           |                         |
| 26 05 36 00-0206 EA 6" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                 | 1,888.55<br>-150.40       | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0207 EA 9" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                 | 1,989.14<br>-157.92       | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0208 EA 12" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,096.93<br>-165.79       | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0209 EA 18" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,290.50<br>-181.69       | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0210 EA 24" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,610.48<br>-205.15       | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0211 EA 30" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,845.57<br>-223.13       | 737.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0212 EA 36" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 3,109.88<br>-242.56       | 821.10                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| <b>26 05 36 00-0213 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-0002)</small>   |                           |                         |
| <b>26 05 36 00-0214 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0215 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 356.83<br>-22.83          | 154.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0216 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 400.57<br>-25.41          | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0217 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 440.88<br>-27.90          | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0218 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 548.88<br>-35.05          | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0219 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 626.66<br>-39.88          | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0220 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 737.61<br>-48.12          | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0221 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 848.92<br>-55.59          | 351.63                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| <b>26 05 36 00-0222 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0223 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 473.30<br>-33.96          | 160.44                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |
| 26 05 36 00-0224 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 519.61<br>-36.59          | 184.43                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0225 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 561.96                    | 205.05                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -39.10                    |                         |
| 26 05 36 00-0226 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 662.00                    | 254.72                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -44.98                    |                         |
| 26 05 36 00-0227 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 747.36                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -50.12                    |                         |
| 26 05 36 00-0228 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 836.09                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -55.66                    |                         |
| 26 05 36 00-0229 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 976.80                    | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -65.31                    |                         |
| <b>26 05 36 00-0230 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b> |                           |                         |
| 26 05 36 00-0231 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 507.52                    | 167.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -36.78                    |                         |
| 26 05 36 00-0232 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 564.14                    | 194.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -40.24                    |                         |
| 26 05 36 00-0233 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 613.90                    | 217.20                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -43.29                    |                         |
| 26 05 36 00-0234 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 743.85                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -51.60                    |                         |
| 26 05 36 00-0235 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 851.57                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -58.42                    |                         |
| 26 05 36 00-0236 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 995.36                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -68.77                    |                         |
| 26 05 36 00-0237 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 1,137.76                  | 433.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -77.63                    |                         |
| <b>26 05 36 00-0238 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b> |                           |                         |
| 26 05 36 00-0239 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 263.91                    | 111.83                  |
| <i>For 60 Degree Bend, Deduct</i>  | -44.24                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -79.94                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -17.08                    |                         |
| 26 05 36 00-0240 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 304.22                    | 134.13                  |
| <i>For 60 Degree Bend, Deduct</i>  | -49.00                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -89.11                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -19.25                    |                         |
| 26 05 36 00-0241 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 340.30                    | 153.82                  |
| <i>For 60 Degree Bend, Deduct</i>  | -53.33                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -97.44                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -21.21                    |                         |
| 26 05 36 00-0242 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 412.66                    | 194.43                  |
| <i>For 60 Degree Bend, Deduct</i>  | -61.66                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -113.57                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -25.07                    |                         |
| 26 05 36 00-0243 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 510.87                    | 238.12                  |
| <i>For 60 Degree Bend, Deduct</i>  | -77.31                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -142.08                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -31.24                    |                         |
| 26 05 36 00-0244 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 601.33                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>  | -93.64                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -171.26                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -37.35                    |                         |
| 26 05 36 00-0245 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 686.87                    | 320.87                  |
| <i>For 60 Degree Bend, Deduct</i>  | -103.65                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -190.58                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -41.95                    |                         |
| <b>26 05 36 00-0246 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b> |                           |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 05 36 00-0247 | EA  | 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 290.38                    | 115.36                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -51.62                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -92.44                    |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -19.43                    |                         |
| 26 05 36 00-0248 | EA  | 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 336.31                    | 139.05                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -57.67                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -103.84                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -22.04                    |                         |
| 26 05 36 00-0249 | EA  | 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 384.80                    | 160.59                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -65.43                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -117.98                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -25.10                    |                         |
| 26 05 36 00-0250 | EA  | 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 462.19                    | 205.05                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -73.90                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -134.56                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -29.13                    |                         |
| 26 05 36 00-0251 | EA  | 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 570.15                    | 254.72                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -90.53                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -165.03                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -35.79                    |                         |
| 26 05 36 00-0252 | EA  | 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 666.59                    | 295.50                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -106.73                   |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -194.29                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -42.04                    |                         |
| 26 05 36 00-0253 | EA  | 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 785.75                    | 351.79                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -124.47                   |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -226.99                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -49.26                    |                         |
| 26 05 36 00-0254 |     | <b>36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0255 | EA  | 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 339.27                    | 119.06                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -66.34                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -117.18                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -24.01                    |                         |
| 26 05 36 00-0256 | EA  | 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                 | 389.81                    | 144.59                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -73.22                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -130.06                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -26.93                    |                         |
| 26 05 36 00-0257 | EA  | 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 431.71                    | 167.82                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -78.14                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -139.55                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -29.19                    |                         |
| 26 05 36 00-0258 | EA  | 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 526.80                    | 217.20                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -90.56                    |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -163.01                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -34.58                    |                         |
| 26 05 36 00-0259 | EA  | 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 629.83                    | 273.34                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -103.05                   |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -186.94                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -40.20                    |                         |
| 26 05 36 00-0260 | EA  | 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 759.72                    | 320.87                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -127.69                   |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -230.65                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -49.23                    |                         |
| 26 05 36 00-0261 | EA  | 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                | 897.62                    | 388.40                  |
|                  |     | <i>For 60 Degree Bend, Deduct</i>   | -147.31                   |                         |
|                  |     | <i>For 30 Degree Bend, Deduct</i>   | -267.10                   |                         |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -57.39                    |                         |
| 26 05 36 00-0262 |     | <b>12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>   |                           |                         |
| 26 05 36 00-0263 | EA  | 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                   | 388.41                    | 153.82                  |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -26.02                    |                         |
| 26 05 36 00-0264 | EA  | 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting                                   | 427.95                    | 175.67                  |
|                  |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -28.15                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0265 EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 463.32                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -30.15                    |                         |
| 26 05 36 00-0266 EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 542.55                    | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -34.41                    |                         |
| 26 05 36 00-0267 EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 607.40                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -37.96                    |                         |
| 26 05 36 00-0268 EA 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 676.64                    | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -42.03                    |                         |
| 26 05 36 00-0269 EA 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 755.30                    | 351.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -46.26                    |                         |
| <b>26 05 36 00-0270 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High,<br/>Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b> |                           |                         |
| 26 05 36 00-0271 EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                         | 454.10                    | 160.44                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -32.04                    |                         |
| 26 05 36 00-0272 EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                         | 498.88                    | 184.58                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -34.51                    |                         |
| 26 05 36 00-0273 EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 540.64                    | 205.05                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -36.97                    |                         |
| 26 05 36 00-0274 EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 633.89                    | 254.72                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -42.17                    |                         |
| 26 05 36 00-0275 EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 712.45                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -46.63                    |                         |
| 26 05 36 00-0276 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 791.15                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -51.17                    |                         |
| 26 05 36 00-0277 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 908.44                    | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -58.47                    |                         |
| <b>26 05 36 00-0278 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High,<br/>Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b> |                           |                         |
| 26 05 36 00-0279 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                         | 531.40                    | 167.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -39.17                    |                         |
| 26 05 36 00-0280 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                         | 584.73                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -42.29                    |                         |
| 26 05 36 00-0281 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 626.17                    | 217.20                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -44.51                    |                         |
| 26 05 36 00-0282 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 740.95                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -51.31                    |                         |
| 26 05 36 00-0283 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 823.20                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -55.58                    |                         |
| 26 05 36 00-0284 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 943.10                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -63.55                    |                         |
| 26 05 36 00-0285 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                        | 1,071.90                  | 433.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -71.05                    |                         |
| <b>26 05 36 00-0286 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>           |                           |                         |
| 26 05 36 00-0287 EA 6" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting .....                                   | 704.60                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -45.84                    |                         |
| 26 05 36 00-0288 EA 9" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting .....                                   | 762.89                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -49.55                    |                         |
| 26 05 36 00-0289 EA 12" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                  | 799.67                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -52.02                    |                         |
| 26 05 36 00-0290 EA 18" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                  | 890.84                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -58.32                    |                         |
| 26 05 36 00-0291 EA 24" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                  | 1,006.10                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -66.46                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 05 36 00-0292        | EA  | 30" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,110.61                  | 434.55                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -74.85                    |                         |
| 26 05 36 00-0293        | EA  | 36" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,257.03                  | 491.92                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -84.71                    |                         |
| <b>26 05 36 00-0294</b> |     | <b>24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0295        | EA  | 6" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 867.41                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.00                    |                         |
| 26 05 36 00-0296        | EA  | 9" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 934.61                    | 351.79                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -64.15                    |                         |
| 26 05 36 00-0297        | EA  | 12" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 976.35                    | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -66.87                    |                         |
| 26 05 36 00-0298        | EA  | 18" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,072.62                  | 409.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -73.11                    |                         |
| 26 05 36 00-0299        | EA  | 24" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,193.53                  | 461.46                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -80.90                    |                         |
| 26 05 36 00-0300        | EA  | 30" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,282.37                  | 491.92                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -87.24                    |                         |
| 26 05 36 00-0301        | EA  | 36" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,539.46                  | 568.37                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -106.59                   |                         |
| <b>26 05 36 00-0302</b> |     | <b>36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0303        | EA  | 6" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,083.48                  | 351.79                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -79.04                    |                         |
| 26 05 36 00-0304        | EA  | 9" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,163.67                  | 388.40                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -84.00                    |                         |
| 26 05 36 00-0305        | EA  | 12" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,234.15                  | 409.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -89.26                    |                         |
| 26 05 36 00-0306        | EA  | 18" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,361.40                  | 461.46                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -97.68                    |                         |
| 26 05 36 00-0307        | EA  | 24" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,546.28                  | 526.84                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -110.73                   |                         |
| 26 05 36 00-0308        | EA  | 30" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,675.65                  | 568.37                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -120.21                   |                         |
| 26 05 36 00-0309        | EA  | 36" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,900.21                  | 670.66                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -134.13                   |                         |
| <b>26 05 36 00-0310</b> |     | <b>12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>   |                           |                         |
| 26 05 36 00-0311        | EA  | 6" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              | 816.70                    | 273.34                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -58.89                    |                         |
| 26 05 36 00-0312        | EA  | 9" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              | 837.83                    | 284.11                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.10                    |                         |
| 26 05 36 00-0313        | EA  | 12" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 859.80                    | 295.50                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -61.36                    |                         |
| 26 05 36 00-0314        | EA  | 18" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 908.58                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -64.12                    |                         |
| 26 05 36 00-0315        | EA  | 24" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 939.03                    | 335.33                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -65.96                    |                         |
| 26 05 36 00-0316        | EA  | 30" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,020.69                  | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -71.31                    |                         |
| 26 05 36 00-0317        | EA  | 36" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             | 1,104.29                  | 409.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -76.28                    |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-------|-----|-----|--|---------------------------|-------------------------|
| 26 05 36 00-0318 |       |     |     | <b>24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>      |                           |                         |
| 26 05 36 00-0319 | EA    |     |     | 6" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,144.85                  | 295.50                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -89.87                    |                         |
| 26 05 36 00-0320 | EA    |     |     | 9" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,174.70                  | 307.65                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -91.83                    |                         |
| 26 05 36 00-0321 | EA    |     |     | 12" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,206.31                  | 320.87                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -93.89                    |                         |
| 26 05 36 00-0322 | EA    |     |     | 18" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,276.68                  | 351.79                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -98.36                    |                         |
| 26 05 36 00-0323 | EA    |     |     | 24" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,324.76                  | 369.17                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -101.71                   |                         |
| 26 05 36 00-0324 | EA    |     |     | 30" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,411.52                  | 409.78                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -107.00                   |                         |
| 26 05 36 00-0325 | EA    |     |     | 36" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,529.26                  | 461.46                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -114.47                   |                         |
| 26 05 36 00-0326 |       |     |     | <b>36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>      |                           |                         |
| 26 05 36 00-0327 | EA    |     |     | 6" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,754.25                  | 320.87                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -148.68                   |                         |
| 26 05 36 00-0328 | EA    |     |     | 9" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                 | 1,794.20                  | 335.33                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -151.47                   |                         |
| 26 05 36 00-0329 | EA    |     |     | 12" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,837.30                  | 351.79                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -154.42                   |                         |
| 26 05 36 00-0330 | EA    |     |     | 18" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,914.32                  | 388.40                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -159.06                   |                         |
| 26 05 36 00-0331 | EA    |     |     | 24" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 1,965.80                  | 409.78                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -162.43                   |                         |
| 26 05 36 00-0332 | EA    |     |     | 30" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 2,099.38                  | 461.46                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -171.48                   |                         |
| 26 05 36 00-0333 | EA    |     |     | 36" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                | 2,224.08                  | 526.84                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -178.51                   |                         |
| 26 05 36 00-0334 |       |     |     | <b>12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0335 | EA    |     |     | 6" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 878.17                    | 369.17                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -57.05                    |                         |
| 26 05 36 00-0336 | EA    |     |     | 9" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 922.96                    | 388.40                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -59.93                    |                         |
| 26 05 36 00-0337 | EA    |     |     | 12" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 983.93                    | 409.78                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -64.24                    |                         |
| 26 05 36 00-0338 | EA    |     |     | 18" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,053.60                  | 434.55                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -69.15                    |                         |
| 26 05 36 00-0339 | EA    |     |     | 24" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,187.35                  | 491.92                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -77.74                    |                         |
| 26 05 36 00-0340 | EA    |     |     | 30" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,318.24                  | 526.84                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -87.93                    |                         |
| 26 05 36 00-0341 | EA    |     |     | 36" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,438.10                  | 568.37                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -96.45                    |                         |
| 26 05 36 00-0342 |       |     |     | <b>24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small> |                           |                         |
| 26 05 36 00-0343 | EA    |     |     | 6" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 1,192.98                  | 409.78                  |
|                  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....   | -85.15                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0344 EA 9" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                          | 1,249.97                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -88.79                    |                         |
| 26 05 36 00-0345 EA 12" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,310.72                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -92.62                    |                         |
| 26 05 36 00-0346 EA 18" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,396.39                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -98.64                    |                         |
| 26 05 36 00-0347 EA 24" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,561.63                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -108.80                   |                         |
| 26 05 36 00-0348 EA 30" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,681.11                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -116.84                   |                         |
| 26 05 36 00-0349 EA 36" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,878.04                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -131.91                   |                         |
| <b>26 05 36 00-0350 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder<br/>Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b> |                           |                         |
| 26 05 36 00-0351 EA 6" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                          | 1,481.75                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -109.72                   |                         |
| 26 05 36 00-0352 EA 9" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                          | 1,564.26                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -115.43                   |                         |
| 26 05 36 00-0353 EA 12" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,653.97                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -121.50                   |                         |
| 26 05 36 00-0354 EA 18" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,802.34                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -132.88                   |                         |
| 26 05 36 00-0355 EA 24" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 2,068.08                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -150.91                   |                         |
| 26 05 36 00-0356 EA 30" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 2,257.97                  | 737.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -164.37                   |                         |
| 26 05 36 00-0357 EA 36" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 2,477.08                  | 821.10                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -179.28                   |                         |
| <b>26 05 36 00-0358 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>   |                           |                         |
| 26 05 36 00-0359 EA 6" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 996.46                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -68.88                    |                         |
| 26 05 36 00-0360 EA 9" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 1,047.18                  | 388.56                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -72.34                    |                         |
| 26 05 36 00-0361 EA 12" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,119.22                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -77.78                    |                         |
| 26 05 36 00-0362 EA 18" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,202.11                  | 434.70                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -83.99                    |                         |
| 26 05 36 00-0363 EA 24" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,352.68                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -94.27                    |                         |
| 26 05 36 00-0364 EA 30" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,516.75                  | 526.99                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -107.76                   |                         |
| 26 05 36 00-0365 EA 36" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,657.86                  | 567.60                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -118.49                   |                         |
| <b>26 05 36 00-0366 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>   |                           |                         |
| 26 05 36 00-0367 EA 6" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 1,422.45                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -108.09                   |                         |
| 26 05 36 00-0368 EA 9" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 1,486.57                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -112.45                   |                         |
| 26 05 36 00-0369 EA 12" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,554.44                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -116.99                   |                         |
| 26 05 36 00-0370 EA 18" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,655.79                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -124.58                   |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0371 EA 24" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 1,838.13                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -136.45                   |                         |
| 26 05 36 00-0372 EA 30" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 1,976.15                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -146.34                   |                         |
| 26 05 36 00-0373 EA 36" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,220.11                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -166.12                   |                         |
| <b>26 05 36 00-0374 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>            |                           |                         |
| 26 05 36 00-0375 EA 6" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                 | 1,802.44                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -141.79                   |                         |
| 26 05 36 00-0376 EA 9" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                 | 1,899.20                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -148.92                   |                         |
| 26 05 36 00-0377 EA 12" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,003.16                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -156.42                   |                         |
| 26 05 36 00-0378 EA 18" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,187.17                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -171.36                   |                         |
| 26 05 36 00-0379 EA 24" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,495.67                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -193.67                   |                         |
| 26 05 36 00-0380 EA 30" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,721.19                  | 737.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -210.69                   |                         |
| 26 05 36 00-0381 EA 36" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                                | 2,975.93                  | 821.10                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -229.17                   |                         |
| <b>26 05 36 00-0382 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small></b>   |                           |                         |
| <b>26 05 36 00-0383 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b> |                           |                         |
| 26 05 36 00-0384 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                      | 340.20                    | 154.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -21.17                    |                         |
| 26 05 36 00-0385 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                      | 382.62                    | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -23.62                    |                         |
| 26 05 36 00-0386 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 421.35                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -25.95                    |                         |
| 26 05 36 00-0387 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 523.54                    | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -32.51                    |                         |
| 26 05 36 00-0388 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 598.16                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -37.03                    |                         |
| 26 05 36 00-0389 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 700.13                    | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -44.38                    |                         |
| 26 05 36 00-0390 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 805.10                    | 351.63                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -51.21                    |                         |
| <b>26 05 36 00-0391 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b> |                           |                         |
| 26 05 36 00-0392 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                      | 438.99                    | 160.44                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -30.53                    |                         |
| 26 05 36 00-0393 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                      | 484.24                    | 184.43                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -33.05                    |                         |
| 26 05 36 00-0394 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 525.27                    | 205.05                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -35.44                    |                         |
| 26 05 36 00-0395 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 622.41                    | 254.72                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -41.02                    |                         |
| 26 05 36 00-0396 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized<br>Steel Cable Tray Fitting.....                     | 704.86                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -45.87                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|---|---------------------------|-------------------------|
| 26 05 36 00-0397        | EA  |     | 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 789.90                    | 335.33                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -51.04                    |                         |
| 26 05 36 00-0398        | EA  |     | 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 921.90                    | 388.40                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -59.82                    |                         |
| <b>26 05 36 00-0399</b> |     |     | <b>36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0392)</small> |                           |                         |
| 26 05 36 00-0400        | EA  |     | 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                           | 469.51                    | 167.66                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -32.98                    |                         |
| 26 05 36 00-0401        | EA  |     | 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                           | 524.02                    | 194.12                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -36.23                    |                         |
| 26 05 36 00-0402        | EA  |     | 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 571.93                    | 217.20                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -39.09                    |                         |
| 26 05 36 00-0403        | EA  |     | 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 695.82                    | 273.34                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -46.80                    |                         |
| 26 05 36 00-0404        | EA  |     | 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 798.78                    | 320.87                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -53.14                    |                         |
| 26 05 36 00-0405        | EA  |     | 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 932.01                    | 369.17                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -62.44                    |                         |
| 26 05 36 00-0406        | EA  |     | 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 1,068.60                  | 433.78                  |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -70.72                    |                         |
| <b>26 05 36 00-0407</b> |     |     | <b>12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0392)</small> |                           |                         |
| 26 05 36 00-0408        | EA  |     | 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                           | 250.98                    | 111.83                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -39.97                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -72.83                    |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -15.78                    |                         |
| 26 05 36 00-0409        | EA  |     | 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                           | 290.76                    | 134.13                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -44.56                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -81.71                    |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -17.90                    |                         |
| 26 05 36 00-0410        | EA  |     | 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 326.31                    | 153.82                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -48.72                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -89.74                    |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -19.81                    |                         |
| 26 05 36 00-0411        | EA  |     | 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 397.88                    | 194.43                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -56.79                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -105.44                   |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -23.59                    |                         |
| 26 05 36 00-0412        | EA  |     | 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 491.87                    | 238.12                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -71.04                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -131.63                   |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -29.34                    |                         |
| 26 05 36 00-0413        | EA  |     | 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 577.04                    | 273.34                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -85.63                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -157.90                   |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -34.92                    |                         |
| 26 05 36 00-0414        | EA  |     | 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 661.53                    | 320.87                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -95.29                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -176.65                   |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -39.41                    |                         |
| <b>26 05 36 00-0415</b> |     |     | <b>24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0392)</small> |                           |                         |
| 26 05 36 00-0416        | EA  |     | 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                           | 274.01                    | 115.36                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -46.22                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -83.44                    |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -17.79                    |                         |
| 26 05 36 00-0417        | EA  |     | 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                           | 318.89                    | 139.05                  |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> .....   | -51.92                    |                         |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> .....   | -94.26                    |                         |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....  | -20.30                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0418 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 365.27                    | 160.59                  |
| <i>For 60 Degree Bend, Deduct</i>  | -58.99                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -107.24                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -23.15                    |                         |
| 26 05 36 00-0419 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 442.13                    | 205.05                  |
| <i>For 60 Degree Bend, Deduct</i>  | -67.28                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -123.53                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -27.12                    |                         |
| 26 05 36 00-0420 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 545.86                    | 254.72                  |
| <i>For 60 Degree Bend, Deduct</i>  | -82.51                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -151.67                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -33.36                    |                         |
| 26 05 36 00-0421 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 637.56                    | 295.50                  |
| <i>For 60 Degree Bend, Deduct</i>  | -97.15                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -178.32                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -39.14                    |                         |
| 26 05 36 00-0422 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 752.49                    | 351.79                  |
| <i>For 60 Degree Bend, Deduct</i>  | -113.49                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -208.70                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -45.94                    |                         |
| <b>26 05 36 00-0423 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b> |                           |                         |
| 26 05 36 00-0424 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 315.78                    | 119.06                  |
| <i>For 60 Degree Bend, Deduct</i>  | -58.59                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -104.26                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -21.66                    |                         |
| 26 05 36 00-0425 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 365.00                    | 144.59                  |
| <i>For 60 Degree Bend, Deduct</i>  | -65.03                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -116.42                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -24.45                    |                         |
| 26 05 36 00-0426 EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 406.37                    | 167.82                  |
| <i>For 60 Degree Bend, Deduct</i>  | -69.78                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -125.62                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -26.65                    |                         |
| 26 05 36 00-0427 EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 499.35                    | 217.20                  |
| <i>For 60 Degree Bend, Deduct</i>  | -81.50                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -147.91                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -31.83                    |                         |
| 26 05 36 00-0428 EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 600.80                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>  | -93.47                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -170.97                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -37.30                    |                         |
| 26 05 36 00-0429 EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 722.24                    | 320.87                  |
| <i>For 60 Degree Bend, Deduct</i>  | -115.33                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -210.04                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -45.48                    |                         |
| 26 05 36 00-0430 EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 855.91                    | 388.40                  |
| <i>For 60 Degree Bend, Deduct</i>  | -133.55                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -244.16                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -53.22                    |                         |
| <b>26 05 36 00-0431 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>   |                           |                         |
| 26 05 36 00-0432 EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 371.18                    | 153.82                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -24.30                    |                         |
| 26 05 36 00-0433 EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                          | 410.33                    | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -26.39                    |                         |
| 26 05 36 00-0434 EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                         | 445.10                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -28.33                    |                         |
| 26 05 36 00-0435 EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                         | 523.54                    | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -32.51                    |                         |
| 26 05 36 00-0436 EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                         | 587.60                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -35.98                    |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 05 36 00-0437        | EA  | 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 655.26                    | 307.65                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -39.89                    |                         |
| 26 05 36 00-0438        | EA  | 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 733.13                    | 351.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -44.05                    |                         |
| <b>26 05 36 00-0439</b> |     | <b>24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High,<br/>Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small> |                           |                         |
| 26 05 36 00-0440        | EA  | 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 429.75                    | 160.44                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -29.60                    |                         |
| 26 05 36 00-0441        | EA  | 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 473.93                    | 184.58                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -32.01                    |                         |
| 26 05 36 00-0442        | EA  | 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 514.71                    | 205.05                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -34.38                    |                         |
| 26 05 36 00-0443        | EA  | 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 606.57                    | 254.72                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -39.43                    |                         |
| 26 05 36 00-0444        | EA  | 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 683.75                    | 295.50                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -43.76                    |                         |
| 26 05 36 00-0445        | EA  | 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 760.87                    | 335.33                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -48.14                    |                         |
| 26 05 36 00-0446        | EA  | 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 874.39                    | 388.40                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -55.07                    |                         |
| <b>26 05 36 00-0447</b> |     | <b>36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High,<br/>Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small> |                           |                         |
| 26 05 36 00-0448        | EA  | 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 498.54                    | 167.66                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -35.88                    |                         |
| 26 05 36 00-0449        | EA  | 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                            | 550.68                    | 194.28                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -38.88                    |                         |
| 26 05 36 00-0450        | EA  | 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 591.73                    | 217.20                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -41.07                    |                         |
| 26 05 36 00-0451        | EA  | 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 703.74                    | 273.34                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -47.59                    |                         |
| 26 05 36 00-0452        | EA  | 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 785.58                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -51.82                    |                         |
| 26 05 36 00-0453        | EA  | 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 900.34                    | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -59.27                    |                         |
| 26 05 36 00-0454        | EA  | 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel<br>Cable Tray Fitting .....                           | 1,026.37                  | 433.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -66.50                    |                         |
| <b>26 05 36 00-0455</b> |     | <b>12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>           |                           |                         |
| 26 05 36 00-0456        | EA  | 6" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting .....                                      | 669.23                    | 295.50                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -42.30                    |                         |
| 26 05 36 00-0457        | EA  | 9" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray<br>Fitting .....                                      | 724.88                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -45.75                    |                         |
| 26 05 36 00-0458        | EA  | 12" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                     | 759.55                    | 335.33                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -48.01                    |                         |
| 26 05 36 00-0459        | EA  | 18" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                     | 844.91                    | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -53.73                    |                         |
| 26 05 36 00-0460        | EA  | 24" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                     | 952.26                    | 409.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -61.07                    |                         |
| 26 05 36 00-0461        | EA  | 30" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                     | 1,046.21                  | 434.55                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -68.41                    |                         |
| 26 05 36 00-0462        | EA  | 36" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting .....                                     | 1,184.18                  | 491.92                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -77.42                    |                         |



|                  |    |  | MINOR<br>CSI UOM DESCRIPTION  |  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|----|--|---|--|---------------------------|-------------------------|
| 26 05 36 00-0463 |    |  | <b>24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small> |  |                           |                         |
| 26 05 36 00-0464 | EA |  | 6" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            |  | 811.98                    | 320.87                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -54.46                    |                         |
| 26 05 36 00-0465 | EA |  | 9" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            |  | 876.55                    | 351.79                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -58.34                    |                         |
| 26 05 36 00-0466 | EA |  | 12" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 916.17                    | 369.17                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -60.85                    |                         |
| 26 05 36 00-0467 | EA |  | 18" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,007.69                  | 409.78                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -66.62                    |                         |
| 26 05 36 00-0468 | EA |  | 24" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,122.79                  | 461.46                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -73.82                    |                         |
| 26 05 36 00-0469 | EA |  | 30" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,205.30                  | 491.92                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -79.53                    |                         |
| 26 05 36 00-0470 | EA |  | 36" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,440.74                  | 568.37                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -96.72                    |                         |
| 26 05 36 00-0471 |    |  | <b>36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small> |  |                           |                         |
| 26 05 36 00-0472 | EA |  | 6" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            |  | 1,000.60                  | 351.79                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -70.75                    |                         |
| 26 05 36 00-0473 | EA |  | 9" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            |  | 1,077.63                  | 388.40                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -75.39                    |                         |
| 26 05 36 00-0474 | EA |  | 12" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,142.30                  | 409.78                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -80.08                    |                         |
| 26 05 36 00-0475 | EA |  | 18" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,262.68                  | 461.46                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -87.81                    |                         |
| 26 05 36 00-0476 | EA |  | 24" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,434.90                  | 526.84                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -99.59                    |                         |
| 26 05 36 00-0477 | EA |  | 30" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,554.24                  | 568.37                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -108.07                   |                         |
| 26 05 36 00-0478 | EA |  | 36" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           |  | 1,769.83                  | 670.66                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -121.09                   |                         |
| 26 05 36 00-0479 |    |  | <b>12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>   |  |                           |                         |
| 26 05 36 00-0480 | EA |  | 6" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              |  | 756.52                    | 273.34                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -52.87                    |                         |
| 26 05 36 00-0481 | EA |  | 9" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              |  | 777.12                    | 284.11                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -54.03                    |                         |
| 26 05 36 00-0482 | EA |  | 12" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             |  | 798.56                    | 295.50                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -55.24                    |                         |
| 26 05 36 00-0483 | EA |  | 18" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             |  | 846.29                    | 320.87                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -57.89                    |                         |
| 26 05 36 00-0484 | EA |  | 24" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             |  | 875.68                    | 335.33                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -59.62                    |                         |
| 26 05 36 00-0485 | EA |  | 30" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             |  | 953.13                    | 369.17                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -64.55                    |                         |
| 26 05 36 00-0486 | EA |  | 36" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                             |  | 1,034.08                  | 409.78                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -69.26                    |                         |
| 26 05 36 00-0487 |    |  | <b>24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>   |  |                           |                         |
| 26 05 36 00-0488 | EA |  | 6" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                              |  | 1,036.11                  | 295.50                  |
|                  |    |  | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  |  | -78.99                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0489 EA 9" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....               | 1,064.37                  | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -80.80                    |                         |
| 26 05 36 00-0490 EA 12" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,094.40                  | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -82.70                    |                         |
| 26 05 36 00-0491 EA 18" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,161.60                  | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -86.85                    |                         |
| 26 05 36 00-0492 EA 24" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,206.51                  | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -89.89                    |                         |
| 26 05 36 00-0493 EA 30" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,290.11                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -94.86                    |                         |
| 26 05 36 00-0494 EA 36" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,402.57                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -101.80                   |                         |
| <b>26 05 36 00-0495 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)</b>      |                           |                         |
| 26 05 36 00-0496 EA 6" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....               | 1,551.02                  | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -128.36                   |                         |
| 26 05 36 00-0497 EA 9" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....               | 1,588.32                  | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -130.88                   |                         |
| 26 05 36 00-0498 EA 12" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,628.78                  | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -133.57                   |                         |
| 26 05 36 00-0499 EA 18" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,703.17                  | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -137.95                   |                         |
| 26 05 36 00-0500 EA 24" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,752.01                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -141.05                   |                         |
| 26 05 36 00-0501 EA 30" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,877.67                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -149.31                   |                         |
| 26 05 36 00-0502 EA 36" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,999.73                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -156.07                   |                         |
| <b>26 05 36 00-0503 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)</b> |                           |                         |
| 26 05 36 00-0504 EA 6" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 834.35                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -52.67                    |                         |
| 26 05 36 00-0505 EA 9" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 877.03                    | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -55.33                    |                         |
| 26 05 36 00-0506 EA 12" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 933.78                    | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -59.23                    |                         |
| 26 05 36 00-0507 EA 18" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 998.70                    | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -63.66                    |                         |
| 26 05 36 00-0508 EA 24" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,126.11                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -71.61                    |                         |
| 26 05 36 00-0509 EA 30" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,244.86                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -80.59                    |                         |
| 26 05 36 00-0510 EA 36" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,356.28                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -88.27                    |                         |
| <b>26 05 36 00-0511 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)</b> |                           |                         |
| 26 05 36 00-0512 EA 6" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 1,107.99                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -76.65                    |                         |
| 26 05 36 00-0513 EA 9" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 1,162.34                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -80.02                    |                         |
| 26 05 36 00-0514 EA 12" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,220.45                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -83.59                    |                         |
| 26 05 36 00-0515 EA 18" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,300.31                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -89.03                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0516 EA 24" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,459.22                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -98.56                    |                         |
| 26 05 36 00-0517 EA 30" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,571.84                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -105.91                   |                         |
| 26 05 36 00-0518 EA 36" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,751.35                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -119.24                   |                         |
| <b>26 05 36 00-0519 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder<br/>Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small> |                           |                         |
| 26 05 36 00-0520 EA 6" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                          | 1,362.98                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -97.84                    |                         |
| 26 05 36 00-0521 EA 9" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                          | 1,440.20                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -103.02                   |                         |
| 26 05 36 00-0522 EA 12" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,524.64                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -108.57                   |                         |
| 26 05 36 00-0523 EA 18" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,659.81                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -118.62                   |                         |
| 26 05 36 00-0524 EA 24" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 1,909.72                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -135.08                   |                         |
| 26 05 36 00-0525 EA 30" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 2,086.41                  | 737.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -147.21                   |                         |
| 26 05 36 00-0526 EA 36" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                         | 2,292.32                  | 821.10                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -160.81                   |                         |
| <b>26 05 36 00-0527 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>   |                           |                         |
| 26 05 36 00-0528 EA 6" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 932.93                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -62.53                    |                         |
| 26 05 36 00-0529 EA 9" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 980.58                    | 388.56                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -65.68                    |                         |
| 26 05 36 00-0530 EA 12" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,046.50                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -70.50                    |                         |
| 26 05 36 00-0531 EA 18" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,122.50                  | 434.70                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -76.03                    |                         |
| 26 05 36 00-0532 EA 24" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,263.89                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -85.39                    |                         |
| 26 05 36 00-0533 EA 30" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,410.36                  | 526.99                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -97.12                    |                         |
| 26 05 36 00-0534 EA 36" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,539.22                  | 567.60                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -106.62                   |                         |
| <b>26 05 36 00-0535 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom<br/>Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>   |                           |                         |
| 26 05 36 00-0536 EA 6" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 1,299.21                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -95.77                    |                         |
| 26 05 36 00-0537 EA 9" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                            | 1,359.51                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -99.74                    |                         |
| 26 05 36 00-0538 EA 12" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,423.55                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -103.90                   |                         |
| 26 05 36 00-0539 EA 18" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,516.48                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -110.65                   |                         |
| 26 05 36 00-0540 EA 24" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,689.64                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -121.61                   |                         |
| 26 05 36 00-0541 EA 30" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 1,817.70                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -130.50                   |                         |
| 26 05 36 00-0542 EA 36" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....                           | 2,036.41                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -147.75                   |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-0543 |     |     | <b>36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>             |                        |                      |
| 26 05 36 00-0544 | EA  |     | 6" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....  | 1,630.22               | 461.46               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -124.57                |                      |
| 26 05 36 00-0545 | EA  |     | 9" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....  | 1,719.32               | 491.92               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -130.94                |                      |
| 26 05 36 00-0546 | EA  |     | 12" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                       | 1,815.63               | 526.84               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -137.66                |                      |
| 26 05 36 00-0547 | EA  |     | 18" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                       | 1,980.50               | 568.37               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -150.69                |                      |
| 26 05 36 00-0548 | EA  |     | 24" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                       | 2,266.04               | 670.66               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -170.71                |                      |
| 26 05 36 00-0549 | EA  |     | 30" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                       | 2,472.43               | 737.12               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -185.81                |                      |
| 26 05 36 00-0550 | EA  |     | 36" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                                       | 2,708.03               | 821.10               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -202.38                |                      |
| 26 05 36 00-0551 |     |     | <b>12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-0002)</small>   |                        |                      |
| 26 05 36 00-0552 |     |     | <b>12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small> |                        |                      |
| 26 05 36 00-0553 | EA  |     | 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 334.38                 | 154.28               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -20.59                 |                      |
| 26 05 36 00-0554 | EA  |     | 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 376.34                 | 175.67               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -22.99                 |                      |
| 26 05 36 00-0555 | EA  |     | 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 414.51                 | 194.28               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -25.27                 |                      |
| 26 05 36 00-0556 | EA  |     | 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 514.67                 | 238.12               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -31.62                 |                      |
| 26 05 36 00-0557 | EA  |     | 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 588.18                 | 273.34               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -36.04                 |                      |
| 26 05 36 00-0558 | EA  |     | 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 687.01                 | 307.65               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -43.06                 |                      |
| 26 05 36 00-0559 | EA  |     | 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 789.77                 | 351.63               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -49.68                 |                      |
| 26 05 36 00-0560 |     |     | <b>24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small> |                        |                      |
| 26 05 36 00-0561 | EA  |     | 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 426.98                 | 160.44               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -29.33                 |                      |
| 26 05 36 00-0562 | EA  |     | 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                            | 471.86                 | 184.43               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -31.82                 |                      |
| 26 05 36 00-0563 | EA  |     | 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 512.43                 | 205.05               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -34.15                 |                      |
| 26 05 36 00-0564 | EA  |     | 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 608.55                 | 254.72               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -39.63                 |                      |
| 26 05 36 00-0565 | EA  |     | 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 689.99                 | 295.50               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -44.38                 |                      |
| 26 05 36 00-0566 | EA  |     | 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 773.73                 | 335.33               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -49.43                 |                      |
| 26 05 36 00-0567 | EA  |     | 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 902.68                 | 388.40               |
|                  |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -57.90                 |                      |
| 26 05 36 00-0568 |     |     | <b>36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small> |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0569 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 456.21                    | 167.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -31.65                    |                         |
| 26 05 36 00-0570 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 509.97                    | 194.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -34.83                    |                         |
| 26 05 36 00-0571 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 557.25                    | 217.20                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -37.62                    |                         |
| 26 05 36 00-0572 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 679.00                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -45.12                    |                         |
| 26 05 36 00-0573 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 780.31                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -51.29                    |                         |
| 26 05 36 00-0574 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 909.84                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.22                    |                         |
| 26 05 36 00-0575 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 1,044.40                  | 433.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -68.30                    |                         |
| <b>26 05 36 00-0576 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b> |                           |                         |
| 26 05 36 00-0577 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 246.45                    | 111.83                  |
| <i>For 60 Degree Bend, Deduct</i>   | -38.48                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -70.34                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -15.33                    |                         |
| 26 05 36 00-0578 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 286.04                    | 134.13                  |
| <i>For 60 Degree Bend, Deduct</i>   | -43.00                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -79.11                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -17.43                    |                         |
| 26 05 36 00-0579 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 321.42                    | 153.82                  |
| <i>For 60 Degree Bend, Deduct</i>   | -47.10                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -87.05                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -19.32                    |                         |
| 26 05 36 00-0580 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 392.71                    | 194.43                  |
| <i>For 60 Degree Bend, Deduct</i>   | -55.08                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -102.60                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -23.07                    |                         |
| 26 05 36 00-0581 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 485.22                    | 238.12                  |
| <i>For 60 Degree Bend, Deduct</i>   | -68.85                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -127.97                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -28.68                    |                         |
| 26 05 36 00-0582 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 568.54                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>   | -82.82                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -153.23                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -34.07                    |                         |
| 26 05 36 00-0583 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 652.66                    | 320.87                  |
| <i>For 60 Degree Bend, Deduct</i>   | -92.36                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -171.77                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -38.52                    |                         |
| <b>26 05 36 00-0584 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b> |                           |                         |
| 26 05 36 00-0585 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 268.28                    | 115.36                  |
| <i>For 60 Degree Bend, Deduct</i>   | -44.33                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -80.29                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -17.22                    |                         |
| 26 05 36 00-0586 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                        | 312.79                    | 139.05                  |
| <i>For 60 Degree Bend, Deduct</i>   | -49.91                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -90.91                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -19.69                    |                         |
| 26 05 36 00-0587 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 358.43                    | 160.59                  |
| <i>For 60 Degree Bend, Deduct</i>   | -56.73                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -103.47                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -22.46                    |                         |
| 26 05 36 00-0588 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 435.11                    | 205.05                  |
| <i>For 60 Degree Bend, Deduct</i>   | -64.97                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -119.67                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -26.42                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-0589        | EA  |     | 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 537.36                   | 537.36                 | 254.72               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -79.71   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -146.99  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -32.51  |                        |                      |
| 26 05 36 00-0590        | EA  |     | 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 627.40                   | 627.40                 | 295.50               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -93.79   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -172.73  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -38.12  |                        |                      |
| 26 05 36 00-0591        | EA  |     | 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 740.85                   | 740.85                 | 351.79               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -109.65  |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -202.29  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -44.77  |                        |                      |
| <b>26 05 36 00-0592</b> |     |     | <b>36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b> |                        |                      |
| 26 05 36 00-0593        | EA  |     | 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 307.56                    | 307.56                 | 119.06               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -55.88   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -99.74   |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -20.84  |                        |                      |
| 26 05 36 00-0594        | EA  |     | 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 356.32                    | 356.32                 | 144.59               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -62.17   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -111.64  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -23.58  |                        |                      |
| 26 05 36 00-0595        | EA  |     | 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 397.50                   | 397.50                 | 167.82               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -66.85   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -120.74  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -25.77  |                        |                      |
| 26 05 36 00-0596        | EA  |     | 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 489.74                   | 489.74                 | 217.20               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -78.33   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -142.62  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -30.87  |                        |                      |
| 26 05 36 00-0597        | EA  |     | 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 590.64                   | 590.64                 | 273.34               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -90.12   |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -165.38  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -36.28  |                        |                      |
| 26 05 36 00-0598        | EA  |     | 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 709.12                   | 709.12                 | 320.87               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -111.00  |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -202.82  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -44.17  |                        |                      |
| 26 05 36 00-0599        | EA  |     | 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 841.32                   | 841.32                 | 388.40               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i> ..... -128.73  |                        |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i> ..... -236.14  |                        |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -51.76  |                        |                      |
| <b>26 05 36 00-0600</b> |     |     | <b>12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>   |                        |                      |
| 26 05 36 00-0601        | EA  |     | 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 363.15                      | 363.15                 | 153.82               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -23.50  |                        |                      |
| 26 05 36 00-0602        | EA  |     | 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 402.11                      | 402.11                 | 175.67               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -25.57  |                        |                      |
| 26 05 36 00-0603        | EA  |     | 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 436.60                     | 436.60                 | 194.28               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -27.48  |                        |                      |
| 26 05 36 00-0604        | EA  |     | 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 514.67                     | 514.67                 | 238.12               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -31.62  |                        |                      |
| 26 05 36 00-0605        | EA  |     | 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 578.36                     | 578.36                 | 273.34               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -35.05  |                        |                      |
| 26 05 36 00-0606        | EA  |     | 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 645.28                     | 645.28                 | 307.65               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -38.89  |                        |                      |
| 26 05 36 00-0607        | EA  |     | 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 722.78                     | 722.78                 | 351.17               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -43.01  |                        |                      |
| <b>26 05 36 00-0608</b> |     |     | <b>24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>   |                        |                      |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-0609        | EA    |     |     | 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....418.39                     | 418.39                 | 160.44               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-28.47   | -28.47                 |                      |
| 26 05 36 00-0610        | EA    |     |     | 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....462.29                     | 462.29                 | 184.58               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-30.85   | -30.85                 |                      |
| 26 05 36 00-0611        | EA    |     |     | 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....502.61                    | 502.61                 | 205.05               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-33.17   | -33.17                 |                      |
| 26 05 36 00-0612        | EA    |     |     | 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....593.82                    | 593.82                 | 254.72               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-38.16   | -38.16                 |                      |
| 26 05 36 00-0613        | EA    |     |     | 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....670.35                    | 670.35                 | 295.50               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-42.42   | -42.42                 |                      |
| 26 05 36 00-0614        | EA    |     |     | 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....746.73                    | 746.73                 | 335.33               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-46.73   | -46.73                 |                      |
| 26 05 36 00-0615        | EA    |     |     | 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....858.50                    | 858.50                 | 388.40               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-53.48   | -53.48                 |                      |
| <b>26 05 36 00-0616</b> |       |     |     | <b>36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b> |                        |                      |
| 26 05 36 00-0617        | EA    |     |     | 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....483.21                     | 483.21                 | 167.66               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-34.35   | -34.35                 |                      |
| 26 05 36 00-0618        | EA    |     |     | 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....534.79                     | 534.79                 | 194.28               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-37.29   | -37.29                 |                      |
| 26 05 36 00-0619        | EA    |     |     | 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....575.66                    | 575.66                 | 217.20               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-39.46   | -39.46                 |                      |
| 26 05 36 00-0620        | EA    |     |     | 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....686.37                    | 686.37                 | 273.34               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-45.86   | -45.86                 |                      |
| 26 05 36 00-0621        | EA    |     |     | 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....768.03                    | 768.03                 | 320.87               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-50.06   | -50.06                 |                      |
| 26 05 36 00-0622        | EA    |     |     | 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....880.38                    | 880.38                 | 369.17               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-57.27   | -57.27                 |                      |
| 26 05 36 00-0623        | EA    |     |     | 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....1,005.13                  | 1,005.13               | 433.78               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-64.37   | -64.37                 |                      |
| <b>26 05 36 00-0624</b> |       |     |     | <b>12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>           |                        |                      |
| 26 05 36 00-0625        | EA    |     |     | 6" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....651.55                               | 651.55                 | 295.50               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-40.54   | -40.54                 |                      |
| 26 05 36 00-0626        | EA    |     |     | 9" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....705.87                               | 705.87                 | 320.87               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-43.85   | -43.85                 |                      |
| 26 05 36 00-0627        | EA    |     |     | 12" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....739.49                              | 739.49                 | 335.33               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-46.00   | -46.00                 |                      |
| 26 05 36 00-0628        | EA    |     |     | 18" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....821.95                              | 821.95                 | 369.17               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-51.43   | -51.43                 |                      |
| 26 05 36 00-0629        | EA    |     |     | 24" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....925.34                              | 925.34                 | 409.78               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-58.38   | -58.38                 |                      |
| 26 05 36 00-0630        | EA    |     |     | 30" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....1,014.01                            | 1,014.01               | 434.55               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-65.19   | -65.19                 |                      |
| 26 05 36 00-0631        | EA    |     |     | 36" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....1,147.76                            | 1,147.76               | 491.92               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-73.78   | -73.78                 |                      |
| <b>26 05 36 00-0632</b> |       |     |     | <b>24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>           |                        |                      |
| 26 05 36 00-0633        | EA    |     |     | 6" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....784.27                               | 784.27                 | 320.87               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-51.69   | -51.69                 |                      |
| 26 05 36 00-0634        | EA    |     |     | 9" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....847.51                               | 847.51                 | 351.79               |
|                         |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....-55.44   | -55.44                 |                      |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0635 EA 12" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 886.08                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -57.84                    |                         |
| 26 05 36 00-0636 EA 18" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 975.22                    | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -63.37                    |                         |
| 26 05 36 00-0637 EA 24" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,087.42                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -70.29                    |                         |
| 26 05 36 00-0638 EA 30" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,166.76                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -75.68                    |                         |
| 26 05 36 00-0639 EA 36" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,391.38                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -91.78                    |                         |
| <b>26 05 36 00-0640 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b> |                           |                         |
| 26 05 36 00-0641 EA 6" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 959.16                    | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -66.61                    |                         |
| 26 05 36 00-0642 EA 9" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 1,034.60                  | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -71.09                    |                         |
| 26 05 36 00-0643 EA 12" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,096.37                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -75.49                    |                         |
| 26 05 36 00-0644 EA 18" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,213.32                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -82.88                    |                         |
| 26 05 36 00-0645 EA 24" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,379.21                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -94.02                    |                         |
| 26 05 36 00-0646 EA 30" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,493.53                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -101.99                   |                         |
| 26 05 36 00-0647 EA 36" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,704.63                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -114.57                   |                         |
| <b>26 05 36 00-0648 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b>   |                           |                         |
| 26 05 36 00-0649 EA 6" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....            | 726.43                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -49.86                    |                         |
| 26 05 36 00-0650 EA 9" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....            | 746.77                    | 284.11                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -51.00                    |                         |
| 26 05 36 00-0651 EA 12" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 767.95                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -52.18                    |                         |
| 26 05 36 00-0652 EA 18" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 815.15                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -54.77                    |                         |
| 26 05 36 00-0653 EA 24" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 844.01                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -56.45                    |                         |
| 26 05 36 00-0654 EA 30" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 919.34                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -61.17                    |                         |
| 26 05 36 00-0655 EA 36" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 998.98                    | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -65.75                    |                         |
| <b>26 05 36 00-0656 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b>   |                           |                         |
| 26 05 36 00-0657 EA 6" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....            | 981.74                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -73.55                    |                         |
| 26 05 36 00-0658 EA 9" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....            | 1,009.20                  | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -75.28                    |                         |
| 26 05 36 00-0659 EA 12" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 1,038.44                  | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -77.10                    |                         |
| 26 05 36 00-0660 EA 18" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 1,104.06                  | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -81.10                    |                         |
| 26 05 36 00-0661 EA 24" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....           | 1,147.39                  | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -83.98                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0662 EA 30" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,229.40                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -88.79                    |                         |
| 26 05 36 00-0663 EA 36" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,339.22                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -95.47                    |                         |
| <b>26 05 36 00-0664 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b>      |                           |                         |
| 26 05 36 00-0665 EA 6" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....               | 1,449.40                  | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -118.20                   |                         |
| 26 05 36 00-0666 EA 9" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....               | 1,485.39                  | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -120.59                   |                         |
| 26 05 36 00-0667 EA 12" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,524.52                  | 351.79                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -123.14                   |                         |
| 26 05 36 00-0668 EA 18" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,597.59                  | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -127.39                   |                         |
| 26 05 36 00-0669 EA 24" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,645.11                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -130.36                   |                         |
| 26 05 36 00-0670 EA 30" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,766.81                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -138.23                   |                         |
| 26 05 36 00-0671 EA 36" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....              | 1,887.56                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -144.86                   |                         |
| <b>26 05 36 00-0672 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b> |                           |                         |
| 26 05 36 00-0673 EA 6" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 812.44                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -50.48                    |                         |
| 26 05 36 00-0674 EA 9" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 854.07                    | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -53.04                    |                         |
| 26 05 36 00-0675 EA 12" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 908.71                    | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -56.72                    |                         |
| 26 05 36 00-0676 EA 18" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 971.25                    | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.92                    |                         |
| 26 05 36 00-0677 EA 24" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,095.50                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -68.55                    |                         |
| 26 05 36 00-0678 EA 30" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,208.17                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -76.92                    |                         |
| 26 05 36 00-0679 EA 36" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,315.37                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -84.18                    |                         |
| <b>26 05 36 00-0680 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b> |                           |                         |
| 26 05 36 00-0681 EA 6" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 1,065.49                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -72.40                    |                         |
| 26 05 36 00-0682 EA 9" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....          | 1,118.53                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -75.64                    |                         |
| 26 05 36 00-0683 EA 12" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,175.32                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -79.08                    |                         |
| 26 05 36 00-0684 EA 18" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,252.28                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -84.23                    |                         |
| 26 05 36 00-0685 EA 24" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,408.01                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -93.44                    |                         |
| 26 05 36 00-0686 EA 30" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,517.20                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -100.45                   |                         |
| 26 05 36 00-0687 EA 36" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....         | 1,688.00                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -112.91                   |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 36 00-0688 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small> |                           |                         |
| 26 05 36 00-0689 EA 6" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                         | 1,303.59                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-91.90</i>             |                         |
| 26 05 36 00-0690 EA 9" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                         | 1,378.18                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-96.82</i>             |                         |
| 26 05 36 00-0691 EA 12" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 1,459.97                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-102.10</i>            |                         |
| 26 05 36 00-0692 EA 18" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 1,588.55                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-111.50</i>            |                         |
| 26 05 36 00-0693 EA 24" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 1,830.53                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-127.16</i>            |                         |
| 26 05 36 00-0694 EA 30" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 2,000.63                  | 737.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-138.63</i>            |                         |
| 26 05 36 00-0695 EA 36" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....                       | 2,199.94                  | 821.10                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-151.57</i>            |                         |
| <b>26 05 36 00-0696 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>   |                           |                         |
| 26 05 36 00-0697 EA 6" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 901.17                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-89.35</i>             |                         |
| 26 05 36 00-0698 EA 9" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 947.29                    | 388.56                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-62.35</i>             |                         |
| 26 05 36 00-0699 EA 12" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,010.14                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-66.87</i>             |                         |
| 26 05 36 00-0700 EA 18" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,082.70                  | 434.70                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-72.05</i>             |                         |
| 26 05 36 00-0701 EA 24" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,219.50                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-80.95</i>             |                         |
| 26 05 36 00-0702 EA 30" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,357.16                  | 526.99                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-91.80</i>             |                         |
| 26 05 36 00-0703 EA 36" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,479.90                  | 567.60                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-100.69</i>            |                         |
| <b>26 05 36 00-0704 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>   |                           |                         |
| 26 05 36 00-0705 EA 6" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,237.60                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-89.61</i>             |                         |
| 26 05 36 00-0706 EA 9" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,295.98                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-93.39</i>             |                         |
| 26 05 36 00-0707 EA 12" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,358.11                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-97.36</i>             |                         |
| 26 05 36 00-0708 EA 18" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,446.83                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-103.69</i>            |                         |
| 26 05 36 00-0709 EA 24" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,615.39                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-114.18</i>            |                         |
| 26 05 36 00-0710 EA 30" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,738.48                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-122.57</i>            |                         |
| 26 05 36 00-0711 EA 36" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                          | 1,944.56                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-138.56</i>            |                         |
| <b>26 05 36 00-0712 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>   |                           |                         |
| 26 05 36 00-0713 EA 6" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....                           | 1,544.11                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | <i>-115.96</i>            |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-0714 EA 9" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting.....  | 1,629.38<br>-121.94       | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  |                           |                         |
| 26 05 36 00-0715 EA 12" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting..... | 1,721.87<br>-128.29       | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  |                           |                         |
| 26 05 36 00-0716 EA 18" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting..... | 1,877.17<br>-140.36       | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  |                           |                         |
| 26 05 36 00-0717 EA 24" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting..... | 2,151.22<br>-159.23       | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  |                           |                         |
| 26 05 36 00-0718 EA 30" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting..... | 2,348.04<br>-173.37       | 737.12                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  |                           |                         |
| 26 05 36 00-0719 EA 36" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable<br>Tray Fitting..... | 2,574.08<br>-188.98       | 821.10                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  |                           |                         |
| <b>26 05 36 00-0720 Dropout Or End Plates And Reducers</b> (26 05 36 00-0002)  |                           |                         |
| <b>26 05 36 00-0721 Straight Reducers</b> (26 05 36 00-0720)   |                           |                         |
| 26 05 36 00-0722 EA 9" To 6" Reducer, Steel Cable Tray.....  | 310.66                    | 113.52                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -21.60                    |                         |
| 26 05 36 00-0723 EA 12" To 9" Reducer, Steel Cable Tray.....   | 328.93                    | 122.90                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -22.65                    |                         |
| 26 05 36 00-0724 EA 18" To 12" Reducer, Steel Cable Tray.....  | 360.55                    | 141.83                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -24.23                    |                         |
| 26 05 36 00-0725 EA 24" To 18" Reducer, Steel Cable Tray.....  | 400.20                    | 164.13                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -26.34                    |                         |
| 26 05 36 00-0726 EA 30" To 24" Reducer, Steel Cable Tray.....  | 436.98                    | 184.58                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -28.32                    |                         |
| 26 05 36 00-0727 EA 36" To 30" Reducer, Steel Cable Tray.....  | 496.68                    | 210.89                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -32.09                    |                         |
| <b>26 05 36 00-0728 Reducers</b> (26 05 36 00-0720)  |                           |                         |
| 26 05 36 00-0729 EA 18" To 6" Reducer, Steel Cable Tray.....   | 365.98                    | 141.98                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -24.77                    |                         |
| 26 05 36 00-0730 EA 24" To 12" Reducer, Steel Cable Tray.....  | 405.87                    | 164.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -26.89                    |                         |
| 26 05 36 00-0731 EA 30" To 12" Reducer, Steel Cable Tray.....  | 447.29                    | 184.43                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -29.36                    |                         |
| 26 05 36 00-0732 EA 30" To 18" Reducer, Steel Cable Tray.....  | 452.33                    | 184.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -29.88                    |                         |
| 26 05 36 00-0733 EA 36" To 12" Reducer, Steel Cable Tray.....  | 499.32                    | 210.89                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -32.36                    |                         |
| 26 05 36 00-0734 EA 36" To 18" Reducer, Steel Cable Tray.....  | 513.84                    | 216.43                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -33.35                    |                         |
| 26 05 36 00-0735 EA 36" To 24" Reducer, Steel Cable Tray.....  | 530.64                    | 223.35                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -34.45                    |                         |
| <b>26 05 36 00-0736 Dropout Or End Plate</b> (26 05 36 00-0720)  |                           |                         |
| 26 05 36 00-0737 EA 6" Dropout Or End Plate, Steel Cable Tray.....   | 90.50                     | 46.15                   |
| 26 05 36 00-0738 EA 9" Dropout Or End Plate, Steel Cable Tray.....   | 103.80                    | 52.76                   |
| 26 05 36 00-0739 EA 12" Dropout Or End Plate, Steel Cable Tray.....  | 112.02                    | 56.76                   |
| 26 05 36 00-0740 EA 18" Dropout Or End Plate, Steel Cable Tray.....  | 132.29                    | 67.07                   |
| 26 05 36 00-0741 EA 24" Dropout Or End Plate, Steel Cable Tray.....  | 147.86                    | 73.84                   |
| 26 05 36 00-0742 EA 30" Dropout Or End Plate, Steel Cable Tray.....  | 163.95                    | 81.98                   |
| 26 05 36 00-0743 EA 36" Dropout Or End Plate, Steel Cable Tray.....  | 184.97                    | 92.29                   |
| <b>26 05 36 00-0744 Ladder Bottom Aluminum Cable Tray</b> (26 05 36 00-0001)   |                           |                         |
| Note: 4-5/8" Height  |                           |                         |
| <b>26 05 36 00-0745 Straight Tray Sections</b> (26 05 36 00-0744)  |                           |                         |
| <b>26 05 36 00-0746 4" Rung Spacing</b> (26 05 36 00-0745)   |                           |                         |
| 26 05 36 00-0747 LF 6" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....   | 135.52                    | 10.77                   |
| For Class 12C Instead Of Class 12B, Add  | 18.53                     |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -12.65                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 6.78                      |                         |
| 26 05 36 00-0748 LF 9" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....   | 143.30                    | 11.38                   |
| For Class 12C Instead Of Class 12B, Add  | 19.60                     |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -13.38                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 7.17                      |                         |
| 26 05 36 00-0749 LF 12" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....  | 151.07                    | 11.84                   |
| For Class 12C Instead Of Class 12B, Add  | 20.68                     |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -14.12                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 7.55                      |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-0750        | LF  |     | 18" Aluminum Cable Tray, 4" Rung Spacing, Straight Section ..... | 167.82                 | 12.92                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 23.01                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -15.70                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 8.39                   |                      |
| 26 05 36 00-0751        | LF  |     | 24" Aluminum Cable Tray, 4" Rung Spacing, Straight Section ..... | 193.77                 | 13.84                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 26.77                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -18.23                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 9.69                   |                      |
| 26 05 36 00-0752        | LF  |     | 30" Aluminum Cable Tray, 4" Rung Spacing, Straight Section ..... | 212.54                 | 14.77                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 29.43                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -20.03                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 10.63                  |                      |
| 26 05 36 00-0753        | LF  |     | 36" Aluminum Cable Tray, 4" Rung Spacing, Straight Section ..... | 229.13                 | 15.69                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 31.75                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -21.60                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 11.46                  |                      |
| <b>26 05 36 00-0754</b> |     |     | <b>6" Rung Spacing</b> <small>(26 05 36 00-0745)</small>         |                        |                      |
| 26 05 36 00-0755        | LF  |     | 6" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....  | 124.84                 | 10.77                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 16.93                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -11.58                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 6.24                   |                      |
| 26 05 36 00-0756        | LF  |     | 9" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....  | 131.99                 | 11.38                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 17.91                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -12.25                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 6.60                   |                      |
| 26 05 36 00-0757        | LF  |     | 12" Aluminum Cable Tray, 6" Rung Spacing, Straight Section ..... | 139.14                 | 11.84                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 18.89                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -12.92                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 6.96                   |                      |
| 26 05 36 00-0758        | LF  |     | 18" Aluminum Cable Tray, 6" Rung Spacing, Straight Section ..... | 154.54                 | 12.92                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 21.02                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -14.37                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 7.73                   |                      |
| 26 05 36 00-0759        | LF  |     | 24" Aluminum Cable Tray, 6" Rung Spacing, Straight Section ..... | 178.24                 | 13.84                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 24.44                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -16.68                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 8.91                   |                      |
| 26 05 36 00-0760        | LF  |     | 30" Aluminum Cable Tray, 6" Rung Spacing, Straight Section ..... | 195.45                 | 14.77                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 26.87                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -18.32                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 9.77                   |                      |
| 26 05 36 00-0761        | LF  |     | 36" Aluminum Cable Tray, 6" Rung Spacing, Straight Section ..... | 210.69                 | 15.69                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 28.98                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -19.76                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 10.53                  |                      |
| <b>26 05 36 00-0762</b> |     |     | <b>9" Rung Spacing</b> <small>(26 05 36 00-0745)</small>         |                        |                      |
| 26 05 36 00-0763        | LF  |     | 6" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....  | 111.05                 | 10.31                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 14.93                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -10.24                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 5.55                   |                      |
| 26 05 36 00-0764        | LF  |     | 9" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....  | 112.33                 | 10.77                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 15.05                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -10.33                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 5.62                   |                      |
| 26 05 36 00-0765        | LF  |     | 12" Aluminum Cable Tray, 9" Rung Spacing, Straight Section ..... | 120.50                 | 11.38                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 16.19                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -11.11                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 6.03                   |                      |
| 26 05 36 00-0766        | LF  |     | 18" Aluminum Cable Tray, 9" Rung Spacing, Straight Section ..... | 128.65                 | 12.15                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 17.27                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -11.85                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 6.43                   |                      |
| 26 05 36 00-0767        | LF  |     | 24" Aluminum Cable Tray, 9" Rung Spacing, Straight Section ..... | 146.05                 | 12.61                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 19.81                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -13.56                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 7.30                   |                      |
| 26 05 36 00-0768        | LF  |     | 30" Aluminum Cable Tray, 9" Rung Spacing, Straight Section ..... | 161.83                 | 13.53                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 22.01                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -15.05                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 8.09                   |                      |
| 26 05 36 00-0769        | LF  |     | 36" Aluminum Cable Tray, 9" Rung Spacing, Straight Section ..... | 171.62                 | 14.77                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 23.28                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -15.93                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 8.58                   |                      |
| <b>26 05 36 00-0770</b> |     |     | <b>12" Rung Spacing</b> <small>(26 05 36 00-0745)</small>        |                        |                      |
| 26 05 36 00-0771        | LF  |     | 6" Aluminum Cable Tray, 12" Rung Spacing, Straight Section ..... | 108.89                 | 10.00                |
|                         |     |     | <i>For Class 12C Instead Of Class 12B, Add</i>                   | 14.67                  |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>       | -10.06                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 5.44                   |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0772    LF    9" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....                      | 110.01                    | 10.31                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 14.78                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -10.14                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 5.50                      |                         |
| 26 05 36 00-0773    LF    12" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....                     | 114.16                    | 10.92                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 15.30                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -10.50                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 5.71                      |                         |
| 26 05 36 00-0774    LF    18" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....                     | 120.95                    | 11.54                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 16.21                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -11.13                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 6.05                      |                         |
| 26 05 36 00-0775    LF    24" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....                     | 132.68                    | 11.69                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 17.94                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -12.29                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 6.63                      |                         |
| 26 05 36 00-0776    LF    30" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....                     | 142.36                    | 12.92                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 19.21                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -13.16                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 7.12                      |                         |
| 26 05 36 00-0777    LF    36" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....                     | 150.42                    | 13.99                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 20.24                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -13.88                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 7.52                      |                         |
| <b>26 05 36 00-0778    18" Rung Spacing</b> <small>(26 05 36 00-0745)</small>                                   |                           |                         |
| 26 05 36 00-0779    LF    6" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                      | 107.91                    | 9.69                    |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 14.57                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -9.98                     |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 5.40                      |                         |
| 26 05 36 00-0780    LF    9" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                      | 107.47                    | 10.15                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 14.44                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -9.91                     |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 5.37                      |                         |
| 26 05 36 00-0781    LF    12" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                     | 113.39                    | 10.46                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 15.26                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -10.46                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 5.67                      |                         |
| 26 05 36 00-0782    LF    18" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                     | 119.50                    | 11.08                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 16.09                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -11.03                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 5.98                      |                         |
| 26 05 36 00-0783    LF    24" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                     | 127.60                    | 11.23                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 17.27                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -11.63                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 6.38                      |                         |
| 26 05 36 00-0784    LF    30" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                     | 132.95                    | 12.30                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 17.90                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -12.28                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 6.65                      |                         |
| 26 05 36 00-0785    LF    36" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....                     | 140.12                    | 13.38                   |
| <i>For Class 12C Instead Of Class 12B, Add</i>  | 18.78                     |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -12.89                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 7.01                      |                         |
| <b>26 05 36 00-0786    4" Rung Tray Fittings</b> <small>(26 05 36 00-0744)</small>                              |                           |                         |
| <b>26 05 36 00-0787    90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>            |                           |                         |
| 26 05 36 00-0788    EA    6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 400.74                    | 154.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -27.22                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 20.04                     |                         |
| 26 05 36 00-0789    EA    9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 440.20                    | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -29.38                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 22.01                     |                         |
| 26 05 36 00-0790    EA    12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 498.29                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -33.64                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 24.91                     |                         |
| 26 05 36 00-0791    EA    18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 593.28                    | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -39.49                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 29.66                     |                         |
| 26 05 36 00-0792    EA    24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 699.35                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -47.15                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 34.97                     |                         |
| 26 05 36 00-0793    EA    30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 771.00                    | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -51.46                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 38.55                     |                         |
| 26 05 36 00-0794    EA    36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 898.86                    | 351.63                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.58                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 44.94                     |                         |
| <b>26 05 36 00-0795    90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>            |                           |                         |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 26 05 36 00-0796        | EA  |     | 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 522.06                 | 160.44               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -38.83                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 26.10                  |                      |
| 26 05 36 00-0797        | EA  |     | 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 572.94                 | 184.43               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -41.92                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 28.65                  |                      |
| 26 05 36 00-0798        | EA  |     | 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 620.11                 | 205.05               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -44.92                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 31.01                  |                      |
| 26 05 36 00-0799        | EA  |     | 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 726.37                 | 254.72               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -51.41                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 36.32                  |                      |
| 26 05 36 00-0800        | EA  |     | 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 823.41                 | 295.50               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -57.72                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 41.17                  |                      |
| 26 05 36 00-0801        | EA  |     | 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 920.89                 | 335.33               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -64.14                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 46.04                  |                      |
| 26 05 36 00-0802        | EA  |     | 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,054.81               | 388.40               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -73.11                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 52.74                  |                      |
| <b>26 05 36 00-0803</b> |     |     | <b>90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0786)</b>                     |                        |                      |
| 26 05 36 00-0804        | EA  |     | 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 559.56                 | 167.66               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -41.98                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 27.98                  |                      |
| 26 05 36 00-0805        | EA  |     | 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 610.79                 | 194.12               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -44.91                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 30.54                  |                      |
| 26 05 36 00-0806        | EA  |     | 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 682.21                 | 217.20               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -50.12                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 34.11                  |                      |
| 26 05 36 00-0807        | EA  |     | 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 815.75                 | 273.34               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -58.79                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 40.79                  |                      |
| 26 05 36 00-0808        | EA  |     | 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 942.25                 | 320.87               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -67.48                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 47.11                  |                      |
| 26 05 36 00-0809        | EA  |     | 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,062.70               | 369.17               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -75.51                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 53.14                  |                      |
| 26 05 36 00-0810        | EA  |     | 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,235.74               | 433.78               |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -87.43                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 61.79                  |                      |
| <b>26 05 36 00-0811</b> |     |     | <b>45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0786)</b>                     |                        |                      |
| 26 05 36 00-0812        | EA  |     | 6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 280.89                 | 111.83               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -49.84                 |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -89.28                 |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -18.77                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 14.04                  |                      |
| 26 05 36 00-0813        | EA  |     | 9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 321.67                 | 134.13               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -54.76                 |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -98.71                 |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -20.99                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 16.08                  |                      |
| 26 05 36 00-0814        | EA  |     | 12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 358.22                 | 153.82               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -59.25                 |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -107.29                |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -23.00                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 17.91                  |                      |
| 26 05 36 00-0815        | EA  |     | 18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 444.02                 | 194.43               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -72.01                 |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -130.82                |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -28.20                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 22.20                  |                      |
| 26 05 36 00-0816        | EA  |     | 24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 545.99                 | 238.12               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -88.90                 |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -161.40                |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -34.76                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 27.30                  |                      |
| 26 05 36 00-0817        | EA  |     | 30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 626.60                 | 273.34               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -101.98                |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -185.16                |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -39.88                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 31.33                  |                      |
| 26 05 36 00-0818        | EA  |     | 36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 713.08                 | 320.87               |
|                         |     |     | <i>For 60 Degree Bend, Deduct</i>   | -112.30                |                      |
|                         |     |     | <i>For 30 Degree Bend, Deduct</i>   | -205.00                |                      |
|                         |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -44.57                 |                      |
|                         |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 35.65                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 36 00-0819    45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>            |                           |                         |
| 26 05 36 00-0820    EA    6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 319.51                    | 115.36                  |
| <i>For 60 Degree Bend, Deduct</i>   | -61.23                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -108.46                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -22.34                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 15.98                     |                         |
| 26 05 36 00-0821    EA    9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 373.66                    | 139.05                  |
| <i>For 60 Degree Bend, Deduct</i>   | -70.00                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -124.39                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -25.78                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 18.68                     |                         |
| 26 05 36 00-0822    EA    12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 413.11                    | 160.59                  |
| <i>For 60 Degree Bend, Deduct</i>   | -74.78                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -133.55                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -27.93                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 20.66                     |                         |
| 26 05 36 00-0823    EA    18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 498.25                    | 205.05                  |
| <i>For 60 Degree Bend, Deduct</i>   | -85.80                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -154.40                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -32.73                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 24.91                     |                         |
| 26 05 36 00-0824    EA    24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 606.33                    | 254.72                  |
| <i>For 60 Degree Bend, Deduct</i>   | -102.47                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -184.92                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -39.41                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 30.32                     |                         |
| 26 05 36 00-0825    EA    30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 710.65                    | 295.50                  |
| <i>For 60 Degree Bend, Deduct</i>   | -121.26                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -218.52                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -46.45                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 35.53                     |                         |
| 26 05 36 00-0826    EA    36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 815.38                    | 351.79                  |
| <i>For 60 Degree Bend, Deduct</i>   | -134.25                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -243.29                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -52.23                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 40.77                     |                         |
| <b>26 05 36 00-0827    45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>            |                           |                         |
| 26 05 36 00-0828    EA    6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 369.30                    | 119.06                  |
| <i>For 60 Degree Bend, Deduct</i>   | -76.25                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -133.70                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -27.01                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 18.47                     |                         |
| 26 05 36 00-0829    EA    9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 415.55                    | 144.59                  |
| <i>For 60 Degree Bend, Deduct</i>   | -81.71                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -144.22                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -29.51                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 20.78                     |                         |
| 26 05 36 00-0830    EA    12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 457.92                    | 167.82                  |
| <i>For 60 Degree Bend, Deduct</i>   | -86.79                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -153.97                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -31.81                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 22.90                     |                         |
| 26 05 36 00-0831    EA    18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 558.53                    | 217.20                  |
| <i>For 60 Degree Bend, Deduct</i>   | -101.03                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -180.46                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -37.75                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 27.93                     |                         |
| 26 05 36 00-0832    EA    24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 695.71                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>   | -124.79                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -223.17                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -46.79                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 34.79                     |                         |
| 26 05 36 00-0833    EA    30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 789.47                    | 320.87                  |
| <i>For 60 Degree Bend, Deduct</i>   | -137.51                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -247.01                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -52.21                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 39.47                     |                         |
| 26 05 36 00-0834    EA    36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 927.49                    | 388.40                  |
| <i>For 60 Degree Bend, Deduct</i>   | -157.17                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -283.53                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -60.38                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 46.37                     |                         |
| <b>26 05 36 00-0835    90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-0786)</small>              |                           |                         |
| 26 05 36 00-0836    EA    6" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 435.00                    | 153.82                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -30.68                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 21.75                     |                         |
| 26 05 36 00-0837    EA    9" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 481.26                    | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -33.48                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 24.06                     |                         |



**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 26 05 36 00-0838 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 515.31<br>-35.35<br>25.77   | 194.28                  |
| 26 05 36 00-0839 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 594.97<br>-39.65<br>29.75   | 238.12                  |
| 26 05 36 00-0840 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 663.49<br>-43.57<br>33.17   | 273.34                  |
| 26 05 36 00-0841 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 730.34<br>-47.40<br>36.52   | 307.65                  |
| 26 05 36 00-0842 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 809.42<br>-51.68<br>40.47   | 351.17                  |
| <b>26 05 36 00-0843 90 Degree, 24" Radius Vertical Risers (26 05 36 00-0786)</b>  |                             |                         |
| 26 05 36 00-0844 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 460.68<br>-32.70<br>23.03   | 160.44                  |
| 26 05 36 00-0845 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 509.02<br>-35.52<br>25.45   | 184.58                  |
| 26 05 36 00-0846 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 548.07<br>-37.72<br>27.40   | 205.05                  |
| 26 05 36 00-0847 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 642.06<br>-42.98<br>32.10   | 254.72                  |
| 26 05 36 00-0848 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 722.99<br>-47.68<br>36.15   | 295.50                  |
| 26 05 36 00-0849 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 802.54<br>-52.31<br>40.13   | 335.33                  |
| 26 05 36 00-0850 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 907.23<br>-58.35<br>45.36   | 388.40                  |
| <b>26 05 36 00-0851 90 Degree, 36" Radius Vertical Risers (26 05 36 00-0786)</b>  |                             |                         |
| 26 05 36 00-0852 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 578.27<br>-43.85<br>28.91   | 167.66                  |
| 26 05 36 00-0853 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 628.99<br>-46.71<br>31.45   | 194.28                  |
| 26 05 36 00-0854 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 686.88<br>-50.58<br>34.34   | 217.20                  |
| 26 05 36 00-0855 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 793.41<br>-56.56<br>39.67   | 273.34                  |
| 26 05 36 00-0856 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 885.61<br>-61.82<br>44.28   | 320.87                  |
| 26 05 36 00-0857 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 992.03<br>-68.44<br>49.60   | 369.17                  |
| 26 05 36 00-0858 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,115.83<br>-75.44<br>55.79 | 433.78                  |
| <b>26 05 36 00-0859 12" Radius Horizontal Tees (26 05 36 00-0786)</b>   |                             |                         |
| 26 05 36 00-0860 EA 6" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>            | 698.43<br>-45.22<br>34.92   | 295.50                  |
| 26 05 36 00-0861 EA 9" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>            | 754.39<br>-48.70<br>37.72   | 320.87                  |
| 26 05 36 00-0862 EA 12" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>           | 781.88<br>-50.24<br>39.09   | 335.33                  |
| 26 05 36 00-0863 EA 18" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>           | 882.12<br>-57.45<br>44.11   | 369.17                  |
| 26 05 36 00-0864 EA 24" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>           | 976.91<br>-63.54<br>48.85   | 409.78                  |
| 26 05 36 00-0865 EA 30" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>           | 1,065.35<br>-70.33<br>53.27 | 434.55                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 26 05 36 00-0866 EA 36" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,228.65<br>-81.87<br>61.43   | 491.92                  |
| <b>26 05 36 00-0867 24" Radius Horizontal Tees</b> <small>(26 05 36 00-0786)</small>   |                               |                         |
| 26 05 36 00-0868 EA 6" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 886.13<br>-61.87<br>44.31     | 320.87                  |
| 26 05 36 00-0869 EA 9" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 957.76<br>-66.47<br>47.89     | 351.79                  |
| 26 05 36 00-0870 EA 12" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 996.97<br>-68.93<br>49.85     | 369.17                  |
| 26 05 36 00-0871 EA 18" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,098.50<br>-75.70<br>54.93   | 409.78                  |
| 26 05 36 00-0872 EA 24" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,221.73<br>-83.72<br>61.09   | 461.46                  |
| 26 05 36 00-0873 EA 30" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,316.47<br>-90.65<br>65.82   | 491.92                  |
| 26 05 36 00-0874 EA 36" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,707.17<br>-123.36<br>85.36  | 568.37                  |
| <b>26 05 36 00-0875 36" Radius Horizontal Tees</b> <small>(26 05 36 00-0786)</small>   |                               |                         |
| 26 05 36 00-0876 EA 6" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,082.74<br>-78.96<br>54.14   | 351.79                  |
| 26 05 36 00-0877 EA 9" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,157.44<br>-83.37<br>57.87   | 388.40                  |
| 26 05 36 00-0878 EA 12" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,240.37<br>-89.89<br>62.02   | 409.78                  |
| 26 05 36 00-0879 EA 18" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,356.84<br>-97.23<br>67.84   | 461.46                  |
| 26 05 36 00-0880 EA 24" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,526.51<br>-108.75<br>76.33  | 526.84                  |
| 26 05 36 00-0881 EA 30" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,767.97<br>-129.44<br>88.40  | 568.37                  |
| 26 05 36 00-0882 EA 36" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 2,029.89<br>-147.09<br>101.49 | 670.66                  |
| <b>26 05 36 00-0883 12" Radius Vertical Tees</b> <small>(26 05 36 00-0786)</small>   |                               |                         |
| 26 05 36 00-0884 EA 6" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 918.38<br>-69.06<br>45.92     | 273.34                  |
| 26 05 36 00-0885 EA 9" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 949.85<br>-71.31<br>47.49     | 284.11                  |
| 26 05 36 00-0886 EA 12" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 972.03<br>-72.58<br>48.60     | 295.50                  |
| 26 05 36 00-0887 EA 18" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,024.62<br>-75.72<br>51.23   | 320.87                  |
| 26 05 36 00-0888 EA 24" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,089.26<br>-80.98<br>54.46   | 335.33                  |
| 26 05 36 00-0889 EA 30" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,155.72<br>-84.81<br>57.79   | 369.17                  |
| 26 05 36 00-0890 EA 36" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,240.37<br>-89.89<br>62.02   | 409.78                  |
| <b>26 05 36 00-0891 24" Radius Vertical Tees</b> <small>(26 05 36 00-0786)</small>   |                               |                         |
| 26 05 36 00-0892 EA 6" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,276.03<br>-102.98<br>63.80  | 295.50                  |
| 26 05 36 00-0893 EA 9" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,306.50<br>-105.01<br>65.33  | 307.65                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 26 05 36 00-0894 EA 12" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,338.75<br>-107.13<br>66.94  | 320.87                  |
| 26 05 36 00-0895 EA 18" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,413.76<br>-112.07<br>70.69  | 351.79                  |
| 26 05 36 00-0896 EA 24" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,463.10<br>-115.55<br>73.16  | 369.17                  |
| 26 05 36 00-0897 EA 30" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,551.13<br>-120.96<br>77.56  | 409.78                  |
| 26 05 36 00-0898 EA 36" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,714.88<br>-133.03<br>85.74  | 461.46                  |
| <b>26 05 36 00-0899 36" Radius Vertical Tee</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0900 EA 6" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>      | 2,025.62<br>-175.82<br>101.28 | 320.87                  |
| 26 05 36 00-0901 EA 9" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>      | 2,069.08<br>-178.96<br>103.45 | 335.33                  |
| 26 05 36 00-0902 EA 12" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,115.70<br>-182.26<br>105.79 | 351.79                  |
| 26 05 36 00-0903 EA 18" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,196.27<br>-187.26<br>109.81 | 388.40                  |
| 26 05 36 00-0904 EA 24" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,251.27<br>-190.98<br>112.56 | 409.78                  |
| 26 05 36 00-0905 EA 30" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,395.40<br>-201.08<br>119.77 | 461.46                  |
| 26 05 36 00-0906 EA 36" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,523.63<br>-208.46<br>126.18 | 526.84                  |
| <b>26 05 36 00-0907 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0908 EA 6" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 902.39<br>-59.48<br>45.12     | 369.17                  |
| 26 05 36 00-0909 EA 9" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 964.91<br>-64.12<br>48.25     | 388.40                  |
| 26 05 36 00-0910 EA 12" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,003.93<br>-66.24<br>50.20   | 409.78                  |
| 26 05 36 00-0911 EA 18" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,112.64<br>-75.05<br>55.63   | 434.55                  |
| 26 05 36 00-0912 EA 24" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,221.89<br>-81.19<br>61.09   | 491.92                  |
| 26 05 36 00-0913 EA 30" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,350.87<br>-91.19<br>67.54   | 526.84                  |
| 26 05 36 00-0914 EA 36" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,538.28<br>-106.47<br>76.91  | 568.37                  |
| <b>26 05 36 00-0915 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0916 EA 6" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,233.62<br>-89.21<br>61.68   | 409.78                  |
| 26 05 36 00-0917 EA 9" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,291.66<br>-92.96<br>64.58   | 434.55                  |
| 26 05 36 00-0918 EA 12" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,353.46<br>-96.89<br>67.67   | 461.46                  |
| 26 05 36 00-0919 EA 18" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,434.69<br>-102.47<br>71.73  | 491.92                  |
| 26 05 36 00-0920 EA 24" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,615.97<br>-114.24<br>80.80  | 568.37                  |
| 26 05 36 00-0921 EA 30" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,752.90<br>-124.02<br>87.65  | 615.28                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 26 05 36 00-0922 EA 36" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,937.96<br>-137.90<br>96.90  | 670.66                  |
| <b>26 05 36 00-0923 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0924 EA 6" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,417.64<br>-103.31<br>70.88  | 461.46                  |
| 26 05 36 00-0925 EA 9" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,506.19<br>-109.62<br>75.31  | 491.92                  |
| 26 05 36 00-0926 EA 12" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,605.40<br>-116.64<br>80.27  | 526.84                  |
| 26 05 36 00-0927 EA 18" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,710.54<br>-123.70<br>85.53  | 568.37                  |
| 26 05 36 00-0928 EA 24" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 2,063.66<br>-150.47<br>103.18 | 670.66                  |
| 26 05 36 00-0929 EA 30" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 2,275.71<br>-166.14<br>113.79 | 737.12                  |
| 26 05 36 00-0930 EA 36" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 2,533.85<br>-184.96<br>126.69 | 821.10                  |
| <b>26 05 36 00-0931 12" Radius Vertical Cross</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0932 EA 6" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 902.39<br>-59.48<br>45.12     | 369.17                  |
| 26 05 36 00-0933 EA 9" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 965.13<br>-64.13<br>48.26     | 388.56                  |
| 26 05 36 00-0934 EA 12" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,003.81<br>-66.24<br>50.19   | 409.78                  |
| 26 05 36 00-0935 EA 18" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,112.92<br>-75.07<br>55.65   | 434.70                  |
| 26 05 36 00-0936 EA 24" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,221.89<br>-81.19<br>61.09   | 491.92                  |
| 26 05 36 00-0937 EA 30" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,351.27<br>-91.21<br>67.56   | 526.99                  |
| 26 05 36 00-0938 EA 36" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,537.12<br>-106.41<br>76.86  | 567.60                  |
| <b>26 05 36 00-0939 24" Radius Vertical Crosses</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0940 EA 6" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,233.62<br>-89.21<br>61.68   | 409.78                  |
| 26 05 36 00-0941 EA 9" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,291.66<br>-92.96<br>64.58   | 434.55                  |
| 26 05 36 00-0942 EA 12" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,353.46<br>-96.89<br>67.67   | 461.46                  |
| 26 05 36 00-0943 EA 18" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,434.69<br>-102.47<br>71.73  | 491.92                  |
| 26 05 36 00-0944 EA 24" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,615.97<br>-114.24<br>80.80  | 568.37                  |
| 26 05 36 00-0945 EA 30" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,741.57<br>-122.88<br>87.08  | 615.28                  |
| 26 05 36 00-0946 EA 36" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,925.18<br>-136.62<br>96.26  | 670.66                  |
| <b>26 05 36 00-0947 36" Radius Vertical Crosses</b> <small>(26 05 36 00-0786)</small>  |                               |                         |
| 26 05 36 00-0948 EA 6" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,709.48<br>-132.49<br>85.47  | 461.46                  |
| 26 05 36 00-0949 EA 9" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,799.49<br>-138.95<br>89.97  | 491.92                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|--|-------------------------------|-------------------------|
| 26 05 36 00-0950 EA 12" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>             | 1,916.30<br>-147.73<br>95.82  | 526.84                  |
| 26 05 36 00-0951 EA 18" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>             | 2,054.06<br>-158.05<br>102.70 | 568.37                  |
| 26 05 36 00-0952 EA 24" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>             | 2,489.26<br>-193.03<br>124.46 | 670.66                  |
| 26 05 36 00-0953 EA 30" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>             | 2,746.90<br>-213.26<br>137.35 | 737.12                  |
| 26 05 36 00-0954 EA 36" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>             | 3,058.25<br>-237.40<br>152.91 | 821.10                  |
| <b>26 05 36 00-0955 6" Rung Tray Fittings (26 05 36 00-0744)</b>   |                               |                         |
| <b>26 05 36 00-0956 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)</b>   |                               |                         |
| 26 05 36 00-0957 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 380.22<br>-25.17<br>19.01     | 154.28                  |
| 26 05 36 00-0958 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 419.16<br>-27.27<br>20.96     | 175.67                  |
| 26 05 36 00-0959 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 473.35<br>-31.15<br>23.67     | 194.28                  |
| 26 05 36 00-0960 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 565.22<br>-36.68<br>28.26     | 238.12                  |
| 26 05 36 00-0961 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 664.53<br>-43.67<br>33.23     | 273.34                  |
| 26 05 36 00-0962 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 734.10<br>-47.77<br>36.71     | 307.65                  |
| 26 05 36 00-0963 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 854.17<br>-56.12<br>42.71     | 351.63                  |
| <b>26 05 36 00-0964 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)</b>   |                               |                         |
| 26 05 36 00-0965 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 485.69<br>-35.20<br>24.28     | 160.44                  |
| 26 05 36 00-0966 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 535.01<br>-38.13<br>26.75     | 184.43                  |
| 26 05 36 00-0967 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 580.35<br>-40.94<br>29.02     | 205.05                  |
| 26 05 36 00-0968 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 683.24<br>-47.10<br>34.16     | 254.72                  |
| 26 05 36 00-0969 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 776.12<br>-52.99<br>38.81     | 295.50                  |
| 26 05 36 00-0970 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 869.18<br>-58.97<br>43.46     | 335.33                  |
| 26 05 36 00-0971 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 996.61<br>-67.29<br>49.83     | 388.40                  |
| <b>26 05 36 00-0972 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)</b>   |                               |                         |
| 26 05 36 00-0973 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 519.55<br>-37.98<br>25.98     | 167.66                  |
| 26 05 36 00-0974 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 569.74<br>-40.80<br>28.49     | 194.12                  |
| 26 05 36 00-0975 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 636.48<br>-45.54<br>31.82     | 217.20                  |
| 26 05 36 00-0976 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 764.31<br>-53.65<br>38.22     | 273.34                  |
| 26 05 36 00-0977 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 884.05<br>-61.66<br>44.20     | 320.87                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0978 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 998.79                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -69.12                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 49.94                     |                         |
| 26 05 36 00-0979 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,162.47                  | 433.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -80.11                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 58.12                     |                         |
| <b>26 05 36 00-0980 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-0955)</small>         |                           |                         |
| 26 05 36 00-0981 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 267.38                    | 111.83                  |
| <i>For 60 Degree Bend, Deduct</i>   | -45.38                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -81.85                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -17.42                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 13.37                     |                         |
| 26 05 36 00-0982 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 307.63                    | 134.13                  |
| <i>For 60 Degree Bend, Deduct</i>   | -50.12                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -90.99                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -19.59                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 15.38                     |                         |
| 26 05 36 00-0983 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 343.67                    | 153.82                  |
| <i>For 60 Degree Bend, Deduct</i>   | -54.45                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -99.29                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -21.55                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 17.18                     |                         |
| 26 05 36 00-0984 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 426.87                    | 194.43                  |
| <i>For 60 Degree Bend, Deduct</i>   | -66.35                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -121.39                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -26.49                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 21.34                     |                         |
| 26 05 36 00-0985 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 524.69                    | 238.12                  |
| <i>For 60 Degree Bend, Deduct</i>   | -81.87                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -149.68                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -32.63                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 26.23                     |                         |
| 26 05 36 00-0986 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 602.17                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>   | -93.92                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -171.72                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -37.44                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 30.11                     |                         |
| 26 05 36 00-0987 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 687.62                    | 320.87                  |
| <i>For 60 Degree Bend, Deduct</i>   | -103.90                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -191.00                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -42.02                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 34.38                     |                         |
| <b>26 05 36 00-0988 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-0955)</small>         |                           |                         |
| 26 05 36 00-0989 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 301.32                    | 115.36                  |
| <i>For 60 Degree Bend, Deduct</i>   | -55.23                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -98.46                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -20.52                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 15.07                     |                         |
| 26 05 36 00-0990 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 353.39                    | 139.05                  |
| <i>For 60 Degree Bend, Deduct</i>   | -63.31                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -113.24                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -23.75                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 17.67                     |                         |
| 26 05 36 00-0991 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 392.33                    | 160.59                  |
| <i>For 60 Degree Bend, Deduct</i>   | -67.92                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -122.12                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -25.85                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 19.62                     |                         |
| 26 05 36 00-0992 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 475.90                    | 205.05                  |
| <i>For 60 Degree Bend, Deduct</i>   | -78.43                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -142.10                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -30.50                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 23.80                     |                         |
| 26 05 36 00-0993 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 580.35                    | 254.72                  |
| <i>For 60 Degree Bend, Deduct</i>   | -93.89                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -170.64                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -36.81                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 29.02                     |                         |
| 26 05 36 00-0994 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 679.47                    | 295.50                  |
| <i>For 60 Degree Bend, Deduct</i>   | -110.98                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -201.37                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -43.33                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 33.97                     |                         |
| 26 05 36 00-0995 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 782.64                    | 351.79                  |
| <i>For 60 Degree Bend, Deduct</i>   | -123.44                   |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -225.28                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -48.95                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 39.13                     |                         |
| <b>26 05 36 00-0996 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-0955)</small>         |                           |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-0997 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 344.87                    | 119.06                  |
| For 60 Degree Bend, Deduct  | -68.19                    |                         |
| For 30 Degree Bend, Deduct  | -120.26                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -24.57                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 17.24                     |                         |
| 26 05 36 00-0998 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 390.61                    | 144.59                  |
| For 60 Degree Bend, Deduct  | -73.48                    |                         |
| For 30 Degree Bend, Deduct  | -130.50                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -27.01                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 19.53                     |                         |
| 26 05 36 00-0999 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 432.46                    | 167.82                  |
| For 60 Degree Bend, Deduct  | -78.39                    |                         |
| For 30 Degree Bend, Deduct  | -139.97                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -29.26                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 21.62                     |                         |
| 26 05 36 00-1000 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 530.47                    | 217.20                  |
| For 60 Degree Bend, Deduct  | -91.77                    |                         |
| For 30 Degree Bend, Deduct  | -165.02                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -34.94                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 26.52                     |                         |
| 26 05 36 00-1001 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 661.41                    | 273.34                  |
| For 60 Degree Bend, Deduct  | -113.47                   |                         |
| For 30 Degree Bend, Deduct  | -204.31                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -43.36                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 33.07                     |                         |
| 26 05 36 00-1002 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 753.10                    | 320.87                  |
| For 60 Degree Bend, Deduct  | -125.51                   |                         |
| For 30 Degree Bend, Deduct  | -227.01                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -48.57                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 37.66                     |                         |
| 26 05 36 00-1003 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 887.48                    | 388.40                  |
| For 60 Degree Bend, Deduct  | -143.97                   |                         |
| For 30 Degree Bend, Deduct  | -261.52                   |                         |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -56.38                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 44.37                     |                         |
| <b>26 05 36 00-1004 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-0955)</small>           |                           |                         |
| 26 05 36 00-1005 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 420.71                    | 153.82                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -29.25                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 21.04                     |                         |
| 26 05 36 00-1006 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 466.19                    | 175.67                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -31.98                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 23.31                     |                         |
| 26 05 36 00-1007 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 499.98                    | 194.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -33.81                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 25.00                     |                         |
| 26 05 36 00-1008 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 579.12                    | 238.12                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -38.07                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 28.96                     |                         |
| 26 05 36 00-1009 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 646.86                    | 273.34                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -41.90                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 32.34                     |                         |
| 26 05 36 00-1010 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 712.93                    | 307.65                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -45.66                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 35.65                     |                         |
| 26 05 36 00-1011 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 791.49                    | 351.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -49.88                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 39.57                     |                         |
| <b>26 05 36 00-1012 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-0955)</small>           |                           |                         |
| 26 05 36 00-1013 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 445.22                    | 160.44                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -31.15                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 22.26                     |                         |
| 26 05 36 00-1014 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 492.91                    | 184.58                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -33.91                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 24.65                     |                         |
| 26 05 36 00-1015 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 531.57                    | 205.05                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -36.07                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 26.58                     |                         |
| 26 05 36 00-1016 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 624.65                    | 254.72                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -41.24                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 31.23                     |                         |
| 26 05 36 00-1017 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 704.54                    | 295.50                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -45.83                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 35.23                     |                         |
| 26 05 36 00-1018 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 783.05                    | 335.33                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -50.36                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 39.15                     |                         |
| 26 05 36 00-1019 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 886.44                    | 388.40                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -56.27                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 44.32                     |                         |



|  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------|-----|-----|---|------------------------|----------------------|
| <b>26 05 36 00-1020    90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-0955)</small> |       |     |     |   |                        |                      |
| 26 05 36 00-1021   | EA    |     |     | 6" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 554.37    |                        | 167.66               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -41.46                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 27.72                  |                      |
| 26 05 36 00-1022   | EA    |     |     | 9" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 604.56    |                        | 194.28               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -44.27                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 30.23                  |                      |
| 26 05 36 00-1023   | EA    |     |     | 12" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 660.90   |                        | 217.20               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -47.99                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 33.05                  |                      |
| 26 05 36 00-1024   | EA    |     |     | 18" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 766.38   |                        | 273.34               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -53.86                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 38.32                  |                      |
| 26 05 36 00-1025   | EA    |     |     | 24" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 857.55   |                        | 320.87               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -59.01                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 42.88                  |                      |
| 26 05 36 00-1026   | EA    |     |     | 30" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 961.89   |                        | 369.17               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -65.43                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 48.09                  |                      |
| 26 05 36 00-1027   | EA    |     |     | 36" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 1,084.39 |                        | 433.78               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -72.30                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 54.22                  |                      |
| <b>26 05 36 00-1028    12" Radius Horizontal Tees</b> <small>(26 05 36 00-0955)</small>            |       |     |     |   |                        |                      |
| 26 05 36 00-1029   | EA    |     |     | 6" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 682.58              |                        | 295.50               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -43.64                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 34.13                  |                      |
| 26 05 36 00-1030   | EA    |     |     | 9" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 737.51              |                        | 320.87               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -47.01                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 36.88                  |                      |
| 26 05 36 00-1031   | EA    |     |     | 12" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 764.73             |                        | 335.33               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -48.53                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 38.24                  |                      |
| 26 05 36 00-1032   | EA    |     |     | 18" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 861.60             |                        | 369.17               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -55.40                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 43.08                  |                      |
| 26 05 36 00-1033   | EA    |     |     | 24" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 954.30             |                        | 409.78               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -61.28                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 47.72                  |                      |
| 26 05 36 00-1034   | EA    |     |     | 30" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 1,039.11           |                        | 434.55               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -67.70                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 51.96                  |                      |
| 26 05 36 00-1035   | EA    |     |     | 36" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... 1,197.21           |                        | 491.92               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -78.72                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 59.86                  |                      |
| <b>26 05 36 00-1036    24" Radius Horizontal Tees</b> <small>(26 05 36 00-0955)</small>            |       |     |     |   |                        |                      |
| 26 05 36 00-1037   | EA    |     |     | 6" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 859.11              |                        | 320.87               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -59.17                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 42.96                  |                      |
| 26 05 36 00-1038   | EA    |     |     | 9" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 929.18              |                        | 351.79               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -63.61                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 46.46                  |                      |
| 26 05 36 00-1039   | EA    |     |     | 12" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 967.61             |                        | 369.17               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -66.00                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 48.38                  |                      |
| 26 05 36 00-1040   | EA    |     |     | 18" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 1,066.55           |                        | 409.78               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -72.50                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 53.33                  |                      |
| 26 05 36 00-1041   | EA    |     |     | 24" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 1,186.91           |                        | 461.46               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -80.24                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 59.35                  |                      |
| 26 05 36 00-1042   | EA    |     |     | 30" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 1,278.28           |                        | 491.92               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -86.83                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 63.91                  |                      |
| 26 05 36 00-1043   | EA    |     |     | 36" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... 1,648.71           |                        | 568.37               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -117.51                |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 82.44                  |                      |
| <b>26 05 36 00-1044    36" Radius Horizontal Tees</b> <small>(26 05 36 00-0955)</small>            |       |     |     |   |                        |                      |
| 26 05 36 00-1045   | EA    |     |     | 6" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 1,044.55            |                        | 351.79               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -75.14                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 52.23                  |                      |
| 26 05 36 00-1046   | EA    |     |     | 9" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 1,118.21            |                        | 388.40               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -79.45                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 55.91                  |                      |
| 26 05 36 00-1047   | EA    |     |     | 12" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... 1,197.50           |                        | 409.78               |
|  |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                    | -85.60                 |                      |
|  |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 59.88                  |                      |



**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1048 EA 18" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,311.63                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -92.71                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 65.58                     |                         |
| 26 05 36 00-1049 EA 24" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,476.62                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -103.76                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 73.83                     |                         |
| 26 05 36 00-1050 EA 30" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,704.83                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -123.12                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 85.24                     |                         |
| 26 05 36 00-1051 EA 36" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,959.73                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -140.08                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 97.99                     |                         |
| <b>26 05 36 00-1052 12" Radius Vertical Tees (26 05 36 00-0955)</b>                           |                           |                         |
| 26 05 36 00-1053 EA 6" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 882.79                    | 273.34                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -65.50                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 44.14                     |                         |
| 26 05 36 00-1054 EA 9" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 913.22                    | 284.11                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -67.64                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 45.66                     |                         |
| 26 05 36 00-1055 EA 12" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 935.14                    | 295.50                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -68.89                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 46.76                     |                         |
| 26 05 36 00-1056 EA 18" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 986.94                    | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -71.95                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 49.35                     |                         |
| 26 05 36 00-1057 EA 24" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,048.47                  | 335.33                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -76.90                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 52.42                     |                         |
| 26 05 36 00-1058 EA 30" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,114.15                  | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -80.65                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 55.71                     |                         |
| 26 05 36 00-1059 EA 36" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,197.50                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -85.60                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 59.88                     |                         |
| <b>26 05 36 00-1060 24" Radius Vertical Tees (26 05 36 00-0955)</b>                           |                           |                         |
| 26 05 36 00-1061 EA 6" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 1,215.75                  | 295.50                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -96.96                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 60.79                     |                         |
| 26 05 36 00-1062 EA 9" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 1,245.45                  | 307.65                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -98.91                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 62.27                     |                         |
| 26 05 36 00-1063 EA 12" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,276.91                  | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -100.95                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 63.85                     |                         |
| 26 05 36 00-1064 EA 18" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,350.10                  | 351.79                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -105.70                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 67.51                     |                         |
| 26 05 36 00-1065 EA 24" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,397.88                  | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -109.02                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 69.89                     |                         |
| 26 05 36 00-1066 EA 30" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,484.35                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -114.28                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 74.22                     |                         |
| 26 05 36 00-1067 EA 36" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,642.13                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -125.76                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 82.11                     |                         |
| <b>26 05 36 00-1068 36" Radius Vertical Tees (26 05 36 00-0955)</b>                           |                           |                         |
| 26 05 36 00-1069 EA 6" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....    | 1,910.94                  | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -164.35                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 95.55                     |                         |
| 26 05 36 00-1070 EA 9" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....    | 1,952.92                  | 335.33                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -167.34                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 97.65                     |                         |
| 26 05 36 00-1071 EA 12" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....   | 1,998.04                  | 351.79                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -170.49                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 99.90                     |                         |
| 26 05 36 00-1072 EA 18" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....   | 2,077.13                  | 388.40                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -175.34                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 103.86                    |                         |
| 26 05 36 00-1073 EA 24" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....   | 2,130.64                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -178.91                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 106.53                    |                         |
| 26 05 36 00-1074 EA 30" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....   | 2,270.30                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -188.57                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 113.52                    |                         |
| 26 05 36 00-1075 EA 36" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....   | 2,397.04                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -195.81                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 119.85                    |                         |



|   | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-------|-----|-----|---|------------------------|----------------------|
| <b>26 05 36 00-1076 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-0955)</small> |       |     |     |   |                        |                      |
| 26 05 36 00-1077  | EA    |     |     | 6" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 880.30                 | 369.17               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -57.27                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 44.02                  |                      |
| 26 05 36 00-1078  | EA    |     |     | 9" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 940.49                 | 388.40               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -61.68                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 47.02                  |                      |
| 26 05 36 00-1079  | EA    |     |     | 12" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 979.24                 | 409.78               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -63.77                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 48.96                  |                      |
| 26 05 36 00-1080  | EA    |     |     | 18" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,082.76               | 434.55               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -72.07                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 54.14                  |                      |
| 26 05 36 00-1081  | EA    |     |     | 24" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,190.97               | 491.92               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -78.10                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 59.55                  |                      |
| 26 05 36 00-1082  | EA    |     |     | 30" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,314.49               | 526.84               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -87.55                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 65.72                  |                      |
| 26 05 36 00-1083  | EA    |     |     | 36" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,492.81               | 568.37               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -101.92                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 74.64                  |                      |
| <b>26 05 36 00-1084 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-0955)</small> |       |     |     |   |                        |                      |
| 26 05 36 00-1085  | EA    |     |     | 6" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 1,191.26               | 409.78               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -84.97                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 59.56                  |                      |
| 26 05 36 00-1086  | EA    |     |     | 9" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 1,248.01               | 434.55               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -88.59                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 62.40                  |                      |
| 26 05 36 00-1087  | EA    |     |     | 12" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,308.51               | 461.46               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -92.40                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 65.43                  |                      |
| 26 05 36 00-1088  | EA    |     |     | 18" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,387.40               | 491.92               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -97.74                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 69.37                  |                      |
| 26 05 36 00-1089  | EA    |     |     | 24" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,564.52               | 568.37               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -109.09                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 78.23                  |                      |
| 26 05 36 00-1090  | EA    |     |     | 30" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,686.48               | 615.28               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -117.37                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 84.32                  |                      |
| 26 05 36 00-1091  | EA    |     |     | 36" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,863.08               | 670.66               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -130.41                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 93.15                  |                      |
| <b>26 05 36 00-1092 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-0955)</small> |       |     |     |   |                        |                      |
| 26 05 36 00-1093  | EA    |     |     | 6" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,367.75               | 461.46               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -98.32                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 68.39                  |                      |
| 26 05 36 00-1094  | EA    |     |     | 9" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,443.53               | 491.92               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -103.36                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 72.18                  |                      |
| 26 05 36 00-1095  | EA    |     |     | 12" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,538.98               | 526.84               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -110.00                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 76.95                  |                      |
| 26 05 36 00-1096  | EA    |     |     | 18" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,651.82               | 568.37               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -117.82                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 82.59                  |                      |
| 26 05 36 00-1097  | EA    |     |     | 24" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,990.91               | 670.66               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -143.20                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 99.55                  |                      |
| 26 05 36 00-1098  | EA    |     |     | 30" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,195.16               | 737.12               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -158.09                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 109.76                 |                      |
| 26 05 36 00-1099  | EA    |     |     | 36" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,444.21               | 821.10               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -176.00                |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 122.21                 |                      |
| <b>26 05 36 00-1100 12" Radius Vertical Crosses</b> <small>(26 05 36 00-0955)</small>   |       |     |     |   |                        |                      |
| 26 05 36 00-1101  | EA    |     |     | 6" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 880.30                 | 369.17               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -57.27                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 44.02                  |                      |
| 26 05 36 00-1102  | EA    |     |     | 9" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 940.71                 | 388.56               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -61.69                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 47.04                  |                      |
| 26 05 36 00-1103  | EA    |     |     | 12" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 979.12                 | 409.78               |
|   |       |     |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                  | -63.77                 |                      |
|   |       |     |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                         | 48.96                  |                      |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1104 EA 18" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....             | 1,083.04                  | 434.70                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -72.08                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 54.15                     |                         |
| 26 05 36 00-1105 EA 24" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....             | 1,190.97                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -78.10                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 59.55                     |                         |
| 26 05 36 00-1106 EA 30" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....             | 1,314.89                  | 526.99                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -87.57                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 65.74                     |                         |
| 26 05 36 00-1107 EA 36" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....             | 1,491.65                  | 567.60                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -101.86                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 74.58                     |                         |
| <b>26 05 36 00-1108 24" Radius Vertical Crosses (26 05 36 00-0955)</b>                                    |                           |                         |
| 26 05 36 00-1109 EA 6" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....              | 1,191.26                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -84.97                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 59.56                     |                         |
| 26 05 36 00-1110 EA 9" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....              | 1,248.01                  | 434.55                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -88.59                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 62.40                     |                         |
| 26 05 36 00-1111 EA 12" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....             | 1,308.51                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -92.40                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 65.43                     |                         |
| 26 05 36 00-1112 EA 18" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....             | 1,387.40                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -97.74                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 69.37                     |                         |
| 26 05 36 00-1113 EA 24" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....             | 1,564.52                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -109.09                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 78.23                     |                         |
| 26 05 36 00-1114 EA 30" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....             | 1,686.48                  | 615.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -117.37                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 84.32                     |                         |
| 26 05 36 00-1115 EA 36" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....             | 1,863.08                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -130.41                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 93.15                     |                         |
| <b>26 05 36 00-1116 36" Radius Vertical Crosses (26 05 36 00-0955)</b>                                    |                           |                         |
| 26 05 36 00-1117 EA 6" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....              | 1,637.14                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -125.26                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 81.86                     |                         |
| 26 05 36 00-1118 EA 9" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....              | 1,724.14                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -131.42                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 86.21                     |                         |
| 26 05 36 00-1119 EA 12" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....             | 1,836.43                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -139.74                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 91.82                     |                         |
| 26 05 36 00-1120 EA 18" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....             | 1,968.92                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -149.53                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 98.45                     |                         |
| 26 05 36 00-1121 EA 24" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....             | 2,383.77                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -182.48                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 119.19                    |                         |
| 26 05 36 00-1122 EA 30" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....             | 2,630.11                  | 737.12                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -201.58                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 131.51                    |                         |
| 26 05 36 00-1123 EA 36" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....             | 2,928.27                  | 821.10                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -224.40                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 146.41                    |                         |
| <b>26 05 36 00-1124 9" Rung Tray Fittings (26 05 36 00-0744)</b>  |                           |                         |
| <b>26 05 36 00-1125 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)</b>                        |                           |                         |
| 26 05 36 00-1126 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 359.69                    | 154.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -23.12                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 17.98                     |                         |
| 26 05 36 00-1127 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 398.11                    | 175.67                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -25.17                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 19.91                     |                         |
| 26 05 36 00-1128 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 448.41                    | 194.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -28.66                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 22.42                     |                         |
| 26 05 36 00-1129 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 537.16                    | 238.12                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -33.87                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 26.86                     |                         |
| 26 05 36 00-1130 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 629.71                    | 273.34                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -40.19                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 31.49                     |                         |
| 26 05 36 00-1131 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 697.21                    | 307.65                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -44.08                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 34.86                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1132 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 809.48                    | 351.63                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -51.65                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 40.47                     |                         |
| <b>26 05 36 00-1133 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>         |                           |                         |
| 26 05 36 00-1134 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 449.31                    | 160.44                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -31.56                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 22.47                     |                         |
| 26 05 36 00-1135 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 497.07                    | 184.43                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -34.34                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 24.85                     |                         |
| 26 05 36 00-1136 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 540.60                    | 205.05                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -36.97                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 27.03                     |                         |
| 26 05 36 00-1137 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 640.11                    | 254.72                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -42.79                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 32.01                     |                         |
| 26 05 36 00-1138 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 728.83                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -48.26                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 36.44                     |                         |
| 26 05 36 00-1139 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 817.48                    | 335.33                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -53.80                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 40.87                     |                         |
| 26 05 36 00-1140 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 938.41                    | 388.40                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -61.47                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 46.92                     |                         |
| <b>26 05 36 00-1141 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>         |                           |                         |
| 26 05 36 00-1142 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 479.54                    | 167.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -33.98                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 23.98                     |                         |
| 26 05 36 00-1143 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 528.68                    | 194.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -36.70                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 26.43                     |                         |
| 26 05 36 00-1144 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 590.75                    | 217.20                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -40.97                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 29.54                     |                         |
| 26 05 36 00-1145 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 712.86                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -48.50                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 35.64                     |                         |
| 26 05 36 00-1146 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 825.85                    | 320.87                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -55.84                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 41.29                     |                         |
| 26 05 36 00-1147 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 934.87                    | 369.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -62.72                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 46.74                     |                         |
| 26 05 36 00-1148 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,089.20                  | 433.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -72.78                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 54.46                     |                         |
| <b>26 05 36 00-1149 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>         |                           |                         |
| 26 05 36 00-1150 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 253.87                    | 111.83                  |
| <i>For 60 Degree Bend, Deduct</i>   | -40.93                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -74.42                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -16.07                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 12.69                     |                         |
| 26 05 36 00-1151 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 293.60                    | 134.13                  |
| <i>For 60 Degree Bend, Deduct</i>   | -45.49                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -83.27                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -18.19                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 14.68                     |                         |
| 26 05 36 00-1152 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 329.12                    | 153.82                  |
| <i>For 60 Degree Bend, Deduct</i>   | -49.64                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -91.29                    |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -20.09                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 16.46                     |                         |
| 26 05 36 00-1153 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 409.72                    | 194.43                  |
| <i>For 60 Degree Bend, Deduct</i>   | -60.69                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -111.95                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -24.77                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 20.49                     |                         |
| 26 05 36 00-1154 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 503.38                    | 238.12                  |
| <i>For 60 Degree Bend, Deduct</i>   | -74.84                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -137.96                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -30.50                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 25.17                     |                         |
| 26 05 36 00-1155 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 577.75                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>   | -85.86                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -158.29                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>  | -34.99                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 28.89                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 05 36 00-1156        | EA  | 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 662.16                    | 320.87                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -95.50                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -176.99                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -39.47                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 33.11                     |                         |
| <b>26 05 36 00-1157</b> |     | <b>45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>      |                           |                         |
| 26 05 36 00-1158        | EA  | 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 283.13                    | 115.36                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -49.23                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -88.46                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -18.70                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 14.16                     |                         |
| 26 05 36 00-1159        | EA  | 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 333.12                    | 139.05                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -56.62                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -102.09                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -21.72                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 16.66                     |                         |
| 26 05 36 00-1160        | EA  | 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 371.54                    | 160.59                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -61.06                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -110.68                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -23.77                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 18.58                     |                         |
| 26 05 36 00-1161        | EA  | 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 453.56                    | 205.05                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -71.05                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -129.82                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -28.26                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 22.68                     |                         |
| 26 05 36 00-1162        | EA  | 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 554.36                    | 254.72                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -85.32                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -156.34                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -34.21                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 27.72                     |                         |
| 26 05 36 00-1163        | EA  | 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 648.29                    | 295.50                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -100.69                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -184.22                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -40.21                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 32.41                     |                         |
| 26 05 36 00-1164        | EA  | 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 749.90                    | 351.79                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -112.64                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -207.27                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -45.68                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 37.50                     |                         |
| <b>26 05 36 00-1165</b> |     | <b>45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>      |                           |                         |
| 26 05 36 00-1166        | EA  | 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 320.45                    | 119.06                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -60.13                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -106.83                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -22.13                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 16.02                     |                         |
| 26 05 36 00-1167        | EA  | 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 365.67                    | 144.59                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -65.25                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -116.79                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -24.52                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 18.28                     |                         |
| 26 05 36 00-1168        | EA  | 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 407.00                    | 167.82                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -69.98                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -125.96                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -26.72                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 20.35                     |                         |
| 26 05 36 00-1169        | EA  | 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 502.41                    | 217.20                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -82.51                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -149.59                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -32.14                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 25.12                     |                         |
| 26 05 36 00-1170        | EA  | 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 627.12                    | 273.34                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -102.15                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -185.45                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -39.93                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 31.36                     |                         |
| 26 05 36 00-1171        | EA  | 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 716.72                    | 320.87                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -113.50                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -207.00                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -44.93                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 35.84                     |                         |
| 26 05 36 00-1172        | EA  | 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 847.47                    | 388.40                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>   | -130.76                   |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>   | -239.52                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                            | -52.38                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                   | 42.37                     |                         |
| <b>26 05 36 00-1173</b> |     | <b>90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1124)</small>        |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|-----------------------------|-------------------------|
| 26 05 36 00-1174 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 399.28<br>-27.11<br>19.96   | 153.82                  |
| 26 05 36 00-1175 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 443.58<br>-29.71<br>22.18   | 175.67                  |
| 26 05 36 00-1176 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 476.99<br>-31.51<br>23.85   | 194.28                  |
| 26 05 36 00-1177 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 555.35<br>-35.69<br>27.77   | 238.12                  |
| 26 05 36 00-1178 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 621.92<br>-39.41<br>31.10   | 273.34                  |
| 26 05 36 00-1179 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 686.81<br>-43.04<br>34.34   | 307.65                  |
| 26 05 36 00-1180 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 764.60<br>-47.19<br>38.23   | 351.17                  |
| <br><b>26 05 36 00-1181 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1124)</small>   |                             |                         |
| 26 05 36 00-1182 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 422.03<br>-28.83<br>21.10   | 160.44                  |
| 26 05 36 00-1183 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 468.74<br>-31.49<br>23.44   | 184.58                  |
| 26 05 36 00-1184 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 506.82<br>-33.59<br>25.34   | 205.05                  |
| 26 05 36 00-1185 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 598.53<br>-38.63<br>29.93   | 254.72                  |
| 26 05 36 00-1186 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 676.87<br>-43.07<br>33.84   | 295.50                  |
| 26 05 36 00-1187 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 753.82<br>-47.43<br>37.69   | 335.33                  |
| 26 05 36 00-1188 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 855.26<br>-53.16<br>42.76   | 388.40                  |
| <br><b>26 05 36 00-1189 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1124)</small>   |                             |                         |
| 26 05 36 00-1190 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 518.51<br>-37.88<br>25.93   | 167.66                  |
| 26 05 36 00-1191 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 567.93<br>-40.61<br>28.40   | 194.28                  |
| 26 05 36 00-1192 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 621.93<br>-44.09<br>31.10   | 217.20                  |
| 26 05 36 00-1193 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 725.85<br>-49.80<br>36.29   | 273.34                  |
| 26 05 36 00-1194 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 815.45<br>-54.80<br>40.77   | 320.87                  |
| 26 05 36 00-1195 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 916.68<br>-60.90<br>45.83   | 369.17                  |
| 26 05 36 00-1196 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,037.23<br>-67.58<br>51.86 | 433.78                  |
| <br><b>26 05 36 00-1197 12" Radius Horizontal Tees</b> <small>(26 05 36 00-1124)</small>  |                             |                         |
| 26 05 36 00-1198 EA 6" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>            | 650.89<br>-40.47<br>32.54   | 295.50                  |
| 26 05 36 00-1199 EA 9" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>            | 703.73<br>-43.63<br>35.19   | 320.87                  |
| 26 05 36 00-1200 EA 12" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>           | 730.44<br>-45.10<br>36.52   | 335.33                  |
| 26 05 36 00-1201 EA 18" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>           | 820.54<br>-51.29<br>41.03   | 369.17                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1202 EA 24" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 909.09                    | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -56.76                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 45.45                     |                         |
| 26 05 36 00-1203 EA 30" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 986.63                    | 434.55                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -62.45                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 49.33                     |                         |
| 26 05 36 00-1204 EA 36" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,134.33                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -72.44                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 56.72                     |                         |
| <b>26 05 36 00-1205 24" Radius Horizontal Tees (26 05 36 00-1124)</b>                         |                           |                         |
| 26 05 36 00-1206 EA 6" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 805.06                    | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -53.76                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 40.25                     |                         |
| 26 05 36 00-1207 EA 9" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 872.02                    | 351.79                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -57.89                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 43.60                     |                         |
| 26 05 36 00-1208 EA 12" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 908.89                    | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -60.13                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 45.44                     |                         |
| 26 05 36 00-1209 EA 18" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,002.63                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -66.11                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 50.13                     |                         |
| 26 05 36 00-1210 EA 24" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,117.28                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -73.27                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 55.86                     |                         |
| 26 05 36 00-1211 EA 30" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,201.89                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -79.19                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 60.09                     |                         |
| 26 05 36 00-1212 EA 36" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,531.78                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -105.82                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 76.59                     |                         |
| <b>26 05 36 00-1213 36" Radius Horizontal Tees (26 05 36 00-1124)</b>                         |                           |                         |
| 26 05 36 00-1214 EA 6" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 968.16                    | 351.79                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -67.51                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 48.41                     |                         |
| 26 05 36 00-1215 EA 9" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,039.74                  | 388.40                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -71.60                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 51.99                     |                         |
| 26 05 36 00-1216 EA 12" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,111.76                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -77.02                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 55.59                     |                         |
| 26 05 36 00-1217 EA 18" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,221.21                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -83.67                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 61.06                     |                         |
| 26 05 36 00-1218 EA 24" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,376.85                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -93.79                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 68.84                     |                         |
| 26 05 36 00-1219 EA 30" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,578.55                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -110.50                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 78.93                     |                         |
| 26 05 36 00-1220 EA 36" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,819.43                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -126.05                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 90.97                     |                         |
| <b>26 05 36 00-1221 12" Radius Vertical Tees (26 05 36 00-1124)</b>                           |                           |                         |
| 26 05 36 00-1222 EA 6" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 811.59                    | 273.34                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -58.38                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 40.58                     |                         |
| 26 05 36 00-1223 EA 9" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 839.95                    | 284.11                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -60.32                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 42.00                     |                         |
| 26 05 36 00-1224 EA 12" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 861.35                    | 295.50                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -61.52                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 43.07                     |                         |
| 26 05 36 00-1225 EA 18" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 911.59                    | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -64.42                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 45.58                     |                         |
| 26 05 36 00-1226 EA 24" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 966.88                    | 335.33                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -68.74                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 48.34                     |                         |
| 26 05 36 00-1227 EA 30" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,031.00                  | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -72.34                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 51.55                     |                         |
| 26 05 36 00-1228 EA 36" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,111.76                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -77.02                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 55.59                     |                         |
| <b>26 05 36 00-1229 24" Radius Vertical Tees (26 05 36 00-1124)</b>                           |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|---|-------------------------------|-------------------------|
| 26 05 36 00-1230 EA 6" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>      | 1,095.19<br>-84.90<br>54.76   | 295.50                  |
| 26 05 36 00-1231 EA 9" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>      | 1,123.33<br>-86.70<br>56.17   | 307.65                  |
| 26 05 36 00-1232 EA 12" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,153.23<br>-88.58<br>57.66   | 320.87                  |
| 26 05 36 00-1233 EA 18" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,222.79<br>-92.97<br>61.14   | 351.79                  |
| 26 05 36 00-1234 EA 24" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,267.45<br>-95.98<br>63.37   | 369.17                  |
| 26 05 36 00-1235 EA 30" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,350.80<br>-100.93<br>67.54  | 409.78                  |
| 26 05 36 00-1236 EA 36" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,496.63<br>-111.21<br>74.83  | 461.46                  |
| <b>26 05 36 00-1237 36" Radius Vertical Tees</b> <small>(26 05 36 00-1124)</small>  |                               |                         |
| 26 05 36 00-1238 EA 6" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>      | 1,681.59<br>-141.42<br>84.08  | 320.87                  |
| 26 05 36 00-1239 EA 9" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>      | 1,720.59<br>-144.11<br>86.03  | 335.33                  |
| 26 05 36 00-1240 EA 12" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,762.74<br>-146.96<br>88.14  | 351.79                  |
| 26 05 36 00-1241 EA 18" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,838.84<br>-151.51<br>91.94  | 388.40                  |
| 26 05 36 00-1242 EA 24" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 1,889.37<br>-154.79<br>94.47  | 409.78                  |
| 26 05 36 00-1243 EA 30" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,020.10<br>-163.55<br>101.01 | 461.46                  |
| 26 05 36 00-1244 EA 36" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>     | 2,143.86<br>-170.49<br>107.19 | 526.84                  |
| <b>26 05 36 00-1245 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1124)</small>   |                               |                         |
| 26 05 36 00-1246 EA 6" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 836.13<br>-52.85<br>41.81     | 369.17                  |
| 26 05 36 00-1247 EA 9" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 891.64<br>-56.79<br>44.58     | 388.40                  |
| 26 05 36 00-1248 EA 12" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 929.88<br>-58.84<br>46.49     | 409.78                  |
| 26 05 36 00-1249 EA 18" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,023.00<br>-66.09<br>51.15   | 434.55                  |
| 26 05 36 00-1250 EA 24" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,129.14<br>-71.92<br>56.46   | 491.92                  |
| 26 05 36 00-1251 EA 30" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,241.74<br>-80.28<br>62.09   | 526.84                  |
| 26 05 36 00-1252 EA 36" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,401.87<br>-92.83<br>70.09   | 568.37                  |
| <b>26 05 36 00-1253 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1124)</small>   |                               |                         |
| 26 05 36 00-1254 EA 6" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,106.56<br>-76.50<br>55.33   | 409.78                  |
| 26 05 36 00-1255 EA 9" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,160.71<br>-79.86<br>58.04   | 434.55                  |
| 26 05 36 00-1256 EA 12" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,218.61<br>-83.41<br>60.93   | 461.46                  |
| 26 05 36 00-1257 EA 18" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,292.83<br>-88.29<br>64.64   | 491.92                  |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1258 EA 24" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,461.63                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -98.80                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 73.08                     |                         |
| 26 05 36 00-1259 EA 30" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,576.32                  | 615.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -106.36                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 78.82                     |                         |
| 26 05 36 00-1260 EA 36" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,738.88                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -117.99                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 86.94                     |                         |
| <b>26 05 36 00-1261 36" Radius Horizontal Crosses (26 05 36 00-1124)</b>                        |                           |                         |
| 26 05 36 00-1262 EA 6" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,267.98                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -88.34                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 63.40                     |                         |
| 26 05 36 00-1263 EA 9" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,339.60                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -92.96                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 66.98                     |                         |
| 26 05 36 00-1264 EA 12" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,428.82                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -98.98                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 71.44                     |                         |
| 26 05 36 00-1265 EA 18" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,534.38                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -106.08                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 76.72                     |                         |
| 26 05 36 00-1266 EA 24" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,845.41                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -128.65                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 92.27                     |                         |
| 26 05 36 00-1267 EA 30" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,034.07                  | 737.12                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -141.98                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 101.70                    |                         |
| 26 05 36 00-1268 EA 36" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,264.93                  | 821.10                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -158.07                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 113.25                    |                         |
| <b>26 05 36 00-1269 12" Radius Vertical Crosses (26 05 36 00-1124)</b>                          |                           |                         |
| 26 05 36 00-1270 EA 6" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 836.13                    | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -52.85                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 41.81                     |                         |
| 26 05 36 00-1271 EA 9" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 891.64                    | 388.40                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -56.79                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 44.58                     |                         |
| 26 05 36 00-1272 EA 12" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 929.88                    | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -58.84                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 46.49                     |                         |
| 26 05 36 00-1273 EA 18" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,023.00                  | 434.55                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -66.09                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 51.15                     |                         |
| 26 05 36 00-1274 EA 24" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,129.14                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -71.92                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 56.46                     |                         |
| 26 05 36 00-1275 EA 30" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,241.74                  | 526.84                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -80.28                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 62.09                     |                         |
| 26 05 36 00-1276 EA 36" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 1,399.55                  | 566.83                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -92.71                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 69.98                     |                         |
| <b>26 05 36 00-1277 24" Radius Vertical Crosses (26 05 36 00-1124)</b>                          |                           |                         |
| 26 05 36 00-1278 EA 6" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 1,106.56                  | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -76.50                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 55.33                     |                         |
| 26 05 36 00-1279 EA 9" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 1,160.71                  | 434.55                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -79.86                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 58.04                     |                         |
| 26 05 36 00-1280 EA 12" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,218.61                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -83.41                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 60.93                     |                         |
| 26 05 36 00-1281 EA 18" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,292.83                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -88.29                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 64.64                     |                         |
| 26 05 36 00-1282 EA 24" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,461.63                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -98.80                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 73.08                     |                         |
| 26 05 36 00-1283 EA 30" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,576.32                  | 615.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -106.36                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 78.82                     |                         |
| 26 05 36 00-1284 EA 36" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 1,738.88                  | 670.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -117.99                   |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 86.94                     |                         |
| <b>26 05 36 00-1285 36" Radius Vertical Crosses (26 05 36 00-1124)</b>                          |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|---|-------------------------------|-------------------------|
| 26 05 36 00-1286 EA 6" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>               | 1,492.47<br>-110.79<br>74.62  | 461.46                  |
| 26 05 36 00-1287 EA 9" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>               | 1,573.44<br>-116.35<br>78.67  | 491.92                  |
| 26 05 36 00-1288 EA 12" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 1,676.69<br>-123.77<br>83.83  | 526.84                  |
| 26 05 36 00-1289 EA 18" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 1,798.63<br>-132.50<br>89.93  | 568.37                  |
| 26 05 36 00-1290 EA 24" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 2,172.79<br>-161.38<br>108.64 | 670.66                  |
| 26 05 36 00-1291 EA 30" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 2,396.53<br>-178.22<br>119.83 | 737.12                  |
| 26 05 36 00-1292 EA 36" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>              | 2,668.31<br>-198.41<br>133.42 | 821.10                  |
| <b>26 05 36 00-1293 12" Rung Tray Fittings</b> <small>(26 05 36 00-0744)</small>  |                               |                         |
| <b>26 05 36 00-1294 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1295 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 352.51<br>-22.40<br>17.63     | 154.28                  |
| 26 05 36 00-1296 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 390.74<br>-24.43<br>19.54     | 175.67                  |
| 26 05 36 00-1297 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 439.68<br>-27.78<br>21.98     | 194.28                  |
| 26 05 36 00-1298 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 527.34<br>-32.89<br>26.37     | 238.12                  |
| 26 05 36 00-1299 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 617.53<br>-38.97<br>30.88     | 273.34                  |
| 26 05 36 00-1300 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 684.29<br>-42.79<br>34.21     | 307.65                  |
| 26 05 36 00-1301 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 793.84<br>-50.08<br>39.69     | 351.63                  |
| <b>26 05 36 00-1302 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1303 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 436.58<br>-30.29<br>21.83     | 160.44                  |
| 26 05 36 00-1304 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 483.80<br>-33.01<br>24.19     | 184.43                  |
| 26 05 36 00-1305 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 526.68<br>-35.58<br>26.33     | 205.05                  |
| 26 05 36 00-1306 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 625.01<br>-41.28<br>31.25     | 254.72                  |
| 26 05 36 00-1307 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 712.28<br>-46.61<br>35.61     | 295.50                  |
| 26 05 36 00-1308 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 799.38<br>-51.99<br>39.97     | 335.33                  |
| 26 05 36 00-1309 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 918.04<br>-59.43<br>45.90     | 388.40                  |
| <b>26 05 36 00-1310 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1311 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 465.53<br>-32.58<br>23.28     | 167.66                  |
| 26 05 36 00-1312 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 514.32<br>-35.26<br>25.72     | 194.12                  |
| 26 05 36 00-1313 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 574.74<br>-39.37<br>28.74     | 217.20                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 05 36 00-1314        | EA  | 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 694.85                    | 273.34                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -46.70                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 34.74                     |                         |
| 26 05 36 00-1315        | EA  | 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 805.48                    | 320.87                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -53.81                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 40.27                     |                         |
| 26 05 36 00-1316        | EA  | 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 912.50                    | 369.17                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -60.49                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 45.63                     |                         |
| 26 05 36 00-1317        | EA  | 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,063.55                  | 433.78                  |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -70.21                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 53.18                     |                         |
| <b>26 05 36 00-1318</b> |     | <b>45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>       |                           |                         |
| 26 05 36 00-1319        | EA  | 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 249.14                    | 111.83                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -39.36                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -71.82                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -15.60                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 12.46                     |                         |
| 26 05 36 00-1320        | EA  | 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 288.69                    | 134.13                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -43.87                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -80.57                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -17.70                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 14.43                     |                         |
| 26 05 36 00-1321        | EA  | 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 324.03                    | 153.82                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -47.96                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -88.49                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -19.58                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 16.20                     |                         |
| 26 05 36 00-1322        | EA  | 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 403.72                    | 194.43                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -58.71                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -108.65                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -24.17                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 20.19                     |                         |
| 26 05 36 00-1323        | EA  | 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 495.92                    | 238.12                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -72.38                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -133.86                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -29.75                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 24.80                     |                         |
| 26 05 36 00-1324        | EA  | 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 569.20                    | 273.34                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -83.04                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -153.59                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -34.14                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 28.46                     |                         |
| 26 05 36 00-1325        | EA  | 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 653.24                    | 320.87                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -92.56                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -172.09                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -38.58                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 32.66                     |                         |
| <b>26 05 36 00-1326</b> |     | <b>45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>       |                           |                         |
| 26 05 36 00-1327        | EA  | 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 276.76                    | 115.36                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -47.13                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -84.95                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -18.07                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 13.84                     |                         |
| 26 05 36 00-1328        | EA  | 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 326.03                    | 139.05                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -54.28                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -98.19                    |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -21.01                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 16.30                     |                         |
| 26 05 36 00-1329        | EA  | 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 364.27                    | 160.59                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -58.66                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -106.69                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -23.05                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 18.21                     |                         |
| 26 05 36 00-1330        | EA  | 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 445.74                    | 205.05                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -68.47                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -125.52                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -27.48                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 22.29                     |                         |
| 26 05 36 00-1331        | EA  | 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 545.27                    | 254.72                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -82.32                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -151.34                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -33.30                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 27.26                     |                         |
| 26 05 36 00-1332        | EA  | 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 637.37                    | 295.50                  |
|                         |     | <i>For 60 Degree Bend, Deduct</i>  | -97.08                    |                         |
|                         |     | <i>For 30 Degree Bend, Deduct</i>  | -178.22                   |                         |
|                         |     | <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                             | -39.12                    |                         |
|                         |     | <i>For 6" Overall Height Instead Of 4-5/8", Add</i>                                    | 31.87                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1333 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 738.44                    | 351.79                  |
| <i>For 60 Degree Bend, Deduct</i>  | -108.86                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -200.97                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -44.53                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 36.92                     |                         |
| <b>26 05 36 00-1334 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>          |                           |                         |
| 26 05 36 00-1335 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 311.90                    | 119.06                  |
| <i>For 60 Degree Bend, Deduct</i>  | -57.31                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -102.13                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -21.27                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 15.60                     |                         |
| 26 05 36 00-1336 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 356.94                    | 144.59                  |
| <i>For 60 Degree Bend, Deduct</i>  | -62.37                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -111.98                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -23.65                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 17.85                     |                         |
| 26 05 36 00-1337 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 398.08                    | 167.82                  |
| <i>For 60 Degree Bend, Deduct</i>  | -67.04                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -121.06                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -25.82                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 19.90                     |                         |
| 26 05 36 00-1338 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 492.59                    | 217.20                  |
| <i>For 60 Degree Bend, Deduct</i>  | -79.27                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -144.19                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -31.15                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 24.63                     |                         |
| 26 05 36 00-1339 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 615.11                    | 273.34                  |
| <i>For 60 Degree Bend, Deduct</i>  | -98.19                    |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -178.84                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -38.73                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 30.76                     |                         |
| 26 05 36 00-1340 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 703.99                    | 320.87                  |
| <i>For 60 Degree Bend, Deduct</i>  | -109.30                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -200.00                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -43.66                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 35.20                     |                         |
| 26 05 36 00-1341 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 833.46                    | 388.40                  |
| <i>For 60 Degree Bend, Deduct</i>  | -126.14                   |                         |
| <i>For 30 Degree Bend, Deduct</i>  | -231.81                   |                         |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -50.98                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 41.67                     |                         |
| <b>26 05 36 00-1342 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1293)</small>            |                           |                         |
| 26 05 36 00-1343 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 384.98                    | 153.82                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -25.68                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 19.25                     |                         |
| 26 05 36 00-1344 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....    | 428.51                    | 175.67                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -28.21                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 21.43                     |                         |
| 26 05 36 00-1345 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 461.66                    | 194.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -29.98                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 23.08                     |                         |
| 26 05 36 00-1346 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 539.50                    | 238.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -34.11                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 26.98                     |                         |
| 26 05 36 00-1347 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 605.29                    | 273.34                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -37.75                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 30.26                     |                         |
| 26 05 36 00-1348 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 669.41                    | 307.65                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -41.30                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 33.47                     |                         |
| 26 05 36 00-1349 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....   | 746.67                    | 351.17                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -45.40                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 37.33                     |                         |
| <b>26 05 36 00-1350 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1293)</small>            |                           |                         |
| 26 05 36 00-1351 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 406.57                    | 160.44                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -27.29                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 20.33                     |                         |
| 26 05 36 00-1352 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....    | 452.63                    | 184.58                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -29.88                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 22.63                     |                         |
| 26 05 36 00-1353 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 490.32                    | 205.05                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -31.94                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 24.52                     |                         |
| 26 05 36 00-1354 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 581.13                    | 254.72                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -36.89                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 29.06                     |                         |
| 26 05 36 00-1355 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....   | 658.42                    | 295.50                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>   | -41.22                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 32.92                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1356 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... | 734.33                    | 335.33                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -45.49                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 36.72                     |                         |
| 26 05 36 00-1357 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... | 834.48                    | 388.40                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -51.08                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 41.72                     |                         |
| <b>26 05 36 00-1358 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1293)</small>           |                           |                         |
| 26 05 36 00-1359 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....  | 494.61                    | 167.66                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -35.49                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 24.73                     |                         |
| 26 05 36 00-1360 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....  | 543.50                    | 194.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -38.17                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 27.18                     |                         |
| 26 05 36 00-1361 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... | 595.95                    | 217.20                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -41.49                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 29.80                     |                         |
| 26 05 36 00-1362 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... | 698.83                    | 273.34                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -47.10                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 34.94                     |                         |
| 26 05 36 00-1363 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... | 787.39                    | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -52.00                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 39.37                     |                         |
| 26 05 36 00-1364 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... | 886.54                    | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -57.89                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 44.33                     |                         |
| 26 05 36 00-1365 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... | 1,005.79                  | 433.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -64.44                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 50.29                     |                         |
| <b>26 05 36 00-1366 12" Radius Horizontal Tees</b> <small>(26 05 36 00-1293)</small>                      |                           |                         |
| 26 05 36 00-1367 EA 6" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....            | 635.04                    | 295.50                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -38.88                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 31.75                     |                         |
| 26 05 36 00-1368 EA 9" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....            | 686.84                    | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -41.94                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 34.34                     |                         |
| 26 05 36 00-1369 EA 12" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....           | 713.29                    | 335.33                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -43.38                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 35.66                     |                         |
| 26 05 36 00-1370 EA 18" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....           | 800.02                    | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -49.24                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 40.00                     |                         |
| 26 05 36 00-1371 EA 24" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....           | 886.49                    | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -54.50                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 44.32                     |                         |
| 26 05 36 00-1372 EA 30" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....           | 960.38                    | 434.55                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -59.83                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 48.02                     |                         |
| 26 05 36 00-1373 EA 36" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....           | 1,102.89                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -69.29                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 55.14                     |                         |
| <b>26 05 36 00-1374 24" Radius Horizontal Tees</b> <small>(26 05 36 00-1293)</small>                      |                           |                         |
| 26 05 36 00-1375 EA 6" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....            | 778.04                    | 320.87                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -51.06                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 38.90                     |                         |
| 26 05 36 00-1376 EA 9" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....            | 843.44                    | 351.79                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -55.03                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 42.17                     |                         |
| 26 05 36 00-1377 EA 12" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....           | 879.53                    | 369.17                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -57.19                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 43.98                     |                         |
| 26 05 36 00-1378 EA 18" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....           | 970.67                    | 409.78                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -62.92                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 48.53                     |                         |
| 26 05 36 00-1379 EA 24" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....           | 1,082.46                  | 461.46                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -69.79                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 54.12                     |                         |
| 26 05 36 00-1380 EA 30" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....           | 1,163.69                  | 491.92                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -75.37                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 58.18                     |                         |
| 26 05 36 00-1381 EA 36" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....           | 1,473.32                  | 568.37                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -99.97                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 73.67                     |                         |
| <b>26 05 36 00-1382 36" Radius Horizontal Tees</b> <small>(26 05 36 00-1293)</small>                      |                           |                         |
| 26 05 36 00-1383 EA 6" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....            | 929.96                    | 351.79                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct   | -63.69                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add  | 46.50                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|---|------------------------------|-------------------------|
| 26 05 36 00-1384 EA 9" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,000.51<br>-67.68<br>50.03  | 388.40                  |
| 26 05 36 00-1385 EA 12" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,068.88<br>-72.74<br>53.44  | 409.78                  |
| 26 05 36 00-1386 EA 18" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,176.00<br>-79.14<br>58.80  | 461.46                  |
| 26 05 36 00-1387 EA 24" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,326.96<br>-88.80<br>66.35  | 526.84                  |
| 26 05 36 00-1388 EA 30" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,515.41<br>-104.18<br>75.77 | 568.37                  |
| 26 05 36 00-1389 EA 36" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,749.27<br>-119.03<br>87.46 | 670.66                  |
| <b>26 05 36 00-1390 12" Radius Vertical Tees</b> <small>(26 05 36 00-1293)</small>  |                              |                         |
| 26 05 36 00-1391 EA 6" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 776.00<br>-54.82<br>38.80    | 273.34                  |
| 26 05 36 00-1392 EA 9" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 803.31<br>-56.65<br>40.17    | 284.11                  |
| 26 05 36 00-1393 EA 12" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 824.45<br>-57.83<br>41.22    | 295.50                  |
| 26 05 36 00-1394 EA 18" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 873.92<br>-60.65<br>43.70    | 320.87                  |
| 26 05 36 00-1395 EA 24" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 926.09<br>-64.66<br>46.30    | 335.33                  |
| 26 05 36 00-1396 EA 30" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 989.43<br>-68.18<br>49.47    | 369.17                  |
| 26 05 36 00-1397 EA 36" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,068.88<br>-72.74<br>53.44  | 409.78                  |
| <b>26 05 36 00-1398 24" Radius Vertical Tees</b> <small>(26 05 36 00-1293)</small>  |                              |                         |
| 26 05 36 00-1399 EA 6" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,034.91<br>-78.87<br>51.75  | 295.50                  |
| 26 05 36 00-1400 EA 9" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,062.27<br>-80.59<br>53.11  | 307.65                  |
| 26 05 36 00-1401 EA 12" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,091.39<br>-82.40<br>54.57  | 320.87                  |
| 26 05 36 00-1402 EA 18" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,159.13<br>-86.60<br>57.96  | 351.79                  |
| 26 05 36 00-1403 EA 24" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,202.23<br>-89.46<br>60.11  | 369.17                  |
| 26 05 36 00-1404 EA 30" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,284.02<br>-94.25<br>64.20  | 409.78                  |
| 26 05 36 00-1405 EA 36" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,423.88<br>-103.93<br>71.19 | 461.46                  |
| <b>26 05 36 00-1406 36" Radius Vertical Tees</b> <small>(26 05 36 00-1293)</small>  |                              |                         |
| 26 05 36 00-1407 EA 6" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,566.92<br>-129.95<br>78.35 | 320.87                  |
| 26 05 36 00-1408 EA 9" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,604.43<br>-132.50<br>80.22 | 335.33                  |
| 26 05 36 00-1409 EA 12" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,645.08<br>-135.20<br>82.25 | 351.79                  |
| 26 05 36 00-1410 EA 18" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,719.70<br>-139.60<br>85.99 | 388.40                  |
| 26 05 36 00-1411 EA 24" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>   | 1,768.74<br>-142.72<br>88.44 | 409.78                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|---|-------------------------------|-------------------------|
| 26 05 36 00-1412 EA 30" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 1,895.00<br>-151.04<br>94.75  | 461.46                  |
| 26 05 36 00-1413 EA 36" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 2,017.27<br>-157.83<br>100.86 | 526.84                  |
| <b>26 05 36 00-1414 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1415 EA 6" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 814.05<br>-50.64<br>40.70     | 369.17                  |
| 26 05 36 00-1416 EA 9" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 867.21<br>-54.35<br>43.36     | 388.40                  |
| 26 05 36 00-1417 EA 12" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 905.19<br>-56.37<br>45.26     | 409.78                  |
| 26 05 36 00-1418 EA 18" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 993.12<br>-63.10<br>49.66     | 434.55                  |
| 26 05 36 00-1419 EA 24" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,098.22<br>-68.83<br>54.91   | 491.92                  |
| 26 05 36 00-1420 EA 30" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,205.36<br>-76.64<br>60.27   | 526.84                  |
| 26 05 36 00-1421 EA 36" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,356.40<br>-88.28<br>67.82   | 568.37                  |
| <b>26 05 36 00-1422 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1423 EA 6" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,064.21<br>-72.27<br>53.21   | 409.78                  |
| 26 05 36 00-1424 EA 9" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,117.06<br>-75.50<br>55.85   | 434.55                  |
| 26 05 36 00-1425 EA 12" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,173.66<br>-78.91<br>58.68   | 461.46                  |
| 26 05 36 00-1426 EA 18" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,245.54<br>-83.56<br>62.28   | 491.92                  |
| 26 05 36 00-1427 EA 24" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,410.18<br>-93.66<br>70.51   | 568.37                  |
| 26 05 36 00-1428 EA 30" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,521.23<br>-100.85<br>76.06  | 615.28                  |
| 26 05 36 00-1429 EA 36" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,676.78<br>-111.78<br>83.84  | 670.66                  |
| <b>26 05 36 00-1430 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1431 EA 6" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,218.09<br>-83.35<br>60.90   | 461.46                  |
| 26 05 36 00-1432 EA 9" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 1,287.63<br>-87.77<br>64.38   | 491.92                  |
| 26 05 36 00-1433 EA 12" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,373.73<br>-93.47<br>68.69   | 526.84                  |
| 26 05 36 00-1434 EA 18" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,475.66<br>-100.21<br>73.78  | 568.37                  |
| 26 05 36 00-1435 EA 24" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,772.66<br>-121.37<br>88.63  | 670.66                  |
| 26 05 36 00-1436 EA 30" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 1,953.52<br>-133.92<br>97.68  | 737.12                  |
| 26 05 36 00-1437 EA 36" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i> | 2,175.29<br>-149.10<br>108.76 | 821.10                  |
| <b>26 05 36 00-1438 12" Radius Vertical Crosses</b> <small>(26 05 36 00-1293)</small>   |                               |                         |
| 26 05 36 00-1439 EA 6" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....<br><i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i><br><i>For 6" Overall Height Instead Of 4-5/8", Add</i>    | 814.05<br>-50.64<br>40.70     | 369.17                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1440 EA 9" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....  | 867.43                    | 388.56                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -54.36                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 43.37                     |                         |
| 26 05 36 00-1441 EA 12" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 905.07                    | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -56.36                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 45.25                     |                         |
| 26 05 36 00-1442 EA 18" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 993.40                    | 434.70                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -63.12                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 49.67                     |                         |
| 26 05 36 00-1443 EA 24" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,098.22                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -68.83                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 54.91                     |                         |
| 26 05 36 00-1444 EA 30" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,205.76                  | 526.99                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -76.66                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 60.29                     |                         |
| 26 05 36 00-1445 EA 36" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... | 1,355.24                  | 567.60                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -88.22                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 67.76                     |                         |
| <b>26 05 36 00-1446 24" Radius Vertical Crosses</b> <small>(26 05 36 00-1293)</small>          |                           |                         |
| 26 05 36 00-1447 EA 6" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 1,064.21                  | 409.78                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -72.27                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 53.21                     |                         |
| 26 05 36 00-1448 EA 9" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....  | 1,117.06                  | 434.55                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -75.50                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 55.85                     |                         |
| 26 05 36 00-1449 EA 12" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,173.66                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -78.91                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 58.68                     |                         |
| 26 05 36 00-1450 EA 18" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,245.54                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -83.56                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 62.28                     |                         |
| 26 05 36 00-1451 EA 24" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,410.18                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -93.66                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 70.51                     |                         |
| 26 05 36 00-1452 EA 30" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,521.23                  | 615.28                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -100.85                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 76.06                     |                         |
| 26 05 36 00-1453 EA 36" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... | 1,676.78                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -111.78                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 83.84                     |                         |
| <b>26 05 36 00-1454 36" Radius Vertical Crosses</b> <small>(26 05 36 00-1293)</small>          |                           |                         |
| 26 05 36 00-1455 EA 6" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,420.13                  | 461.46                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -103.56                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 71.01                     |                         |
| 26 05 36 00-1456 EA 9" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....  | 1,498.09                  | 491.92                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -108.81                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 74.90                     |                         |
| 26 05 36 00-1457 EA 12" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,596.82                  | 526.84                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -115.78                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 79.84                     |                         |
| 26 05 36 00-1458 EA 18" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 1,713.48                  | 568.37                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -123.99                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 85.67                     |                         |
| 26 05 36 00-1459 EA 24" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,067.30                  | 670.66                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -150.84                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 103.37                    |                         |
| 26 05 36 00-1460 EA 30" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,279.73                  | 737.12                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -166.54                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 113.99                    |                         |
| 26 05 36 00-1461 EA 36" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... | 2,538.33                  | 821.10                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -185.41                   |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 126.92                    |                         |
| <b>26 05 36 00-1462 Dropout Or End Plates And Reducers</b> <small>(26 05 36 00-0744)</small>   |                           |                         |
| <b>26 05 36 00-1463 Straight Reducers</b> <small>(26 05 36 00-1462)</small>                    |                           |                         |
| 26 05 36 00-1464 EA 9" To 6" Reducer, Aluminum Cable Tray.....                                 | 306.17                    | 113.52                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -21.15                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 15.31                     |                         |
| 26 05 36 00-1465 EA 12" To 9" Reducer, Aluminum Cable Tray.....                                | 324.40                    | 122.90                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -22.20                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 16.22                     |                         |
| 26 05 36 00-1466 EA 18" To 12" Reducer, Aluminum Cable Tray.....                               | 358.62                    | 141.83                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -24.04                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 17.93                     |                         |
| 26 05 36 00-1467 EA 24" To 18" Reducer, Aluminum Cable Tray.....                               | 398.23                    | 164.13                  |
| <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>                                     | -26.15                    |                         |
| <i>For 6" Overall Height Instead Of 4-5/8", Add</i>  | 19.91                     |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1468 EA 30" To 24" Reducer, Aluminum Cable Tray .....  | 434.97                    | 184.58                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -28.11                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 21.75                     |                         |
| 26 05 36 00-1469 EA 36" To 30" Reducer, Aluminum Cable Tray .....  | 486.62                    | 210.89                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -31.09                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 24.33                     |                         |
| <b>26 05 36 00-1470 Reducers</b> <small>(26 05 36 00-1462)</small>   |                           |                         |
| 26 05 36 00-1471 EA 18" To 6" Reducer, Aluminum Cable Tray .....   | 358.77                    | 141.98                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -24.04                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 17.94                     |                         |
| 26 05 36 00-1472 EA 24" To 12" Reducer, Aluminum Cable Tray .....  | 398.62                    | 164.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -26.17                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 19.93                     |                         |
| 26 05 36 00-1473 EA 30" To 12" Reducer, Aluminum Cable Tray .....  | 434.72                    | 184.43                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -28.10                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 21.74                     |                         |
| 26 05 36 00-1474 EA 30" To 18" Reducer, Aluminum Cable Tray .....  | 437.07                    | 184.28                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -28.35                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 21.85                     |                         |
| 26 05 36 00-1475 EA 36" To 12" Reducer, Aluminum Cable Tray .....  | 484.02                    | 210.89                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -30.83                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 24.20                     |                         |
| 26 05 36 00-1476 EA 36" To 18" Reducer, Aluminum Cable Tray .....  | 495.86                    | 216.43                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -31.55                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 24.79                     |                         |
| 26 05 36 00-1477 EA 36" To 24" Reducer, Aluminum Cable Tray .....  | 512.58                    | 223.35                  |
| For 3-5/8" Overall Height Instead Of 4-5/8", Deduct  | -32.64                    |                         |
| For 6" Overall Height Instead Of 4-5/8", Add   | 25.63                     |                         |
| <b>26 05 36 00-1478 Dropout Or End Plate</b> <small>(26 05 36 00-1462)</small>                                 |                           |                         |
| 26 05 36 00-1479 EA 6" Dropout Or End Plate, Aluminum Cable Tray .....   | 92.37                     | 46.15                   |
| 26 05 36 00-1480 EA 9" Dropout Or End Plate, Aluminum Cable Tray .....   | 104.33                    | 52.76                   |
| 26 05 36 00-1481 EA 12" Dropout Or End Plate, Aluminum Cable Tray .....  | 112.53                    | 56.76                   |
| 26 05 36 00-1482 EA 18" Dropout Or End Plate, Aluminum Cable Tray .....  | 135.86                    | 67.07                   |
| 26 05 36 00-1483 EA 24" Dropout Or End Plate, Aluminum Cable Tray .....  | 151.24                    | 73.84                   |
| 26 05 36 00-1484 EA 30" Dropout Or End Plate, Aluminum Cable Tray .....  | 170.28                    | 81.98                   |
| 26 05 36 00-1485 EA 36" Dropout Or End Plate, Aluminum Cable Tray .....  | 191.11                    | 92.29                   |
| <b>26 05 36 00-1486 Solid Bottom Cable Tray</b> <small>(26 05 36 00-0001)</small>                              |                           |                         |
| Note: 3-5/8" Height.   |                           |                         |
| <b>26 05 36 00-1487 Solid Bottom Galvanized Steel Straight Tray Sections</b> <small>(26 05 36 00-1486)</small> |                           |                         |
| 26 05 36 00-1488 LF 6" Solid Bottom Steel Cable Tray, Straight Section .....                                   | 35.11                     | 12.00                   |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 3.25                      |                         |
| 26 05 36 00-1489 LF 12" Solid Bottom Steel Cable Tray, Straight Section .....                                  | 43.63                     | 14.77                   |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 4.09                      |                         |
| 26 05 36 00-1490 LF 18" Solid Bottom Steel Cable Tray, Straight Section .....                                  | 58.79                     | 21.23                   |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 5.28                      |                         |
| 26 05 36 00-1491 LF 24" Solid Bottom Steel Cable Tray, Straight Section .....                                  | 67.94                     | 24.30                   |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 6.13                      |                         |
| 26 05 36 00-1492 LF 30" Solid Bottom Steel Cable Tray, Straight Section .....                                  | 81.51                     | 29.38                   |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 7.32                      |                         |
| 26 05 36 00-1493 LF 36" Solid Bottom Steel Cable Tray, Straight Section .....                                  | 102.63                    | 33.69                   |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 9.78                      |                         |
| <b>26 05 36 00-1494 Solid Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-1486)</small>    |                           |                         |
| <b>26 05 36 00-1495 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>              |                           |                         |
| 26 05 36 00-1496 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray .....            | 370.03                    | 153.98                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 29.85                     |                         |
| 26 05 36 00-1497 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray .....           | 488.19                    | 216.58                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 37.12                     |                         |
| 26 05 36 00-1498 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray .....           | 600.89                    | 273.34                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 44.57                     |                         |
| 26 05 36 00-1499 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray .....           | 736.80                    | 335.80                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 54.54                     |                         |
| 26 05 36 00-1500 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray .....           | 859.58                    | 389.17                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 64.09                     |                         |
| 26 05 36 00-1501 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray .....           | 964.79                    | 434.55                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 72.30                     |                         |
| <b>26 05 36 00-1502 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>              |                           |                         |
| 26 05 36 00-1503 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray .....            | 428.39                    | 160.28                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 37.53                     |                         |
| 26 05 36 00-1504 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray .....           | 573.33                    | 230.88                  |
| For 4-5/8" Overall Height Instead Of 3-5/8", Add   | 47.51                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1505 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 710.29<br>57.30           | 295.50                  |
| 26 05 36 00-1506 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 869.49<br>68.90           | 369.17                  |
| 26 05 36 00-1507 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,020.18<br>80.74         | 433.78                  |
| 26 05 36 00-1508 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,153.59<br>91.04         | 491.92                  |
| <b>26 05 36 00-1509 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1510 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 515.12<br>49.36           | 167.51                  |
| 26 05 36 00-1511 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 676.41<br>60.38           | 246.58                  |
| 26 05 36 00-1512 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 860.17<br>75.47           | 321.33                  |
| 26 05 36 00-1513 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,034.85<br>86.92         | 409.78                  |
| 26 05 36 00-1514 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,242.11<br>104.32        | 491.92                  |
| 26 05 36 00-1515 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,419.23<br>118.40        | 566.83                  |
| <b>26 05 36 00-1516 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1517 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 341.83<br>25.60           | 153.98                  |
| 26 05 36 00-1518 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 456.41<br>32.35           | 216.58                  |
| 26 05 36 00-1519 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 564.04<br>39.10           | 273.04                  |
| 26 05 36 00-1520 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 691.73<br>47.86           | 335.33                  |
| 26 05 36 00-1521 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 806.81<br>56.17           | 389.17                  |
| 26 05 36 00-1522 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 903.29<br>63.21           | 433.78                  |
| <b>26 05 36 00-1523 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1524 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 388.29<br>31.50           | 160.44                  |
| 26 05 36 00-1525 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 525.84<br>40.42           | 230.73                  |
| 26 05 36 00-1526 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 656.44<br>49.16           | 295.80                  |
| 26 05 36 00-1527 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 805.94<br>59.36           | 369.17                  |
| 26 05 36 00-1528 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 947.20<br>69.66           | 434.55                  |
| 26 05 36 00-1529 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,070.18<br>78.53         | 491.92                  |
| <b>26 05 36 00-1530 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1531 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 456.51<br>40.53           | 167.66                  |
| 26 05 36 00-1532 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 571.80<br>48.51           | 223.50                  |
| 26 05 36 00-1533 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 779.02<br>63.29           | 321.33                  |
| 26 05 36 00-1534 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 948.12<br>73.79           | 410.55                  |
| 26 05 36 00-1535 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,136.57<br>88.49         | 491.92                  |
| 26 05 36 00-1536 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,302.95<br>100.73        | 568.37                  |
| <b>26 05 36 00-1537 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1538 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>   | 394.32<br>33.56           | 153.52                  |
| 26 05 36 00-1539 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 506.34<br>39.84           | 216.58                  |
| 26 05 36 00-1540 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 603.16<br>44.91           | 273.34                  |
| 26 05 36 00-1541 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 732.26<br>53.86           | 335.80                  |
| 26 05 36 00-1542 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 832.34<br>60.00           | 389.17                  |
| 26 05 36 00-1543 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 913.50<br>64.74           | 433.78                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 36 00-1544 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1494)</small>            |                           |                         |
| 26 05 36 00-1545 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....462.44    | 462.44                    | 160.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>42.64</i>              |                         |
| 26 05 36 00-1546 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....598.30   | 598.30                    | 230.88                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>51.25</i>              |                         |
| 26 05 36 00-1547 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....723.91   | 723.91                    | 295.50                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>59.35</i>              |                         |
| 26 05 36 00-1548 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....867.22   | 867.22                    | 369.17                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>68.56</i>              |                         |
| 26 05 36 00-1549 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....988.40   | 988.40                    | 433.78                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>75.98</i>              |                         |
| 26 05 36 00-1550 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....1,110.47 | 1,110.47                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>84.58</i>              |                         |
| <b>26 05 36 00-1551 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1494)</small>            |                           |                         |
| 26 05 36 00-1552 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....544.63    | 544.63                    | 167.51                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>53.79</i>              |                         |
| 26 05 36 00-1553 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....670.69   | 670.69                    | 223.96                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>63.27</i>              |                         |
| 26 05 36 00-1554 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....860.17   | 860.17                    | 321.33                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>75.47</i>              |                         |
| 26 05 36 00-1555 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....1,039.39 | 1,039.39                  | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>87.60</i>              |                         |
| 26 05 36 00-1556 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....1,208.07 | 1,208.07                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>99.22</i>              |                         |
| 26 05 36 00-1557 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....1,367.02 | 1,367.02                  | 566.83                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>110.57</i>             |                         |
| <b>26 05 36 00-1558 12" Radius Horizontal Tees</b> <small>(26 05 36 00-1494)</small>                       |                           |                         |
| 26 05 36 00-1559 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....651.27              | 651.27                    | 295.50                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>48.45</i>              |                         |
| 26 05 36 00-1560 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....786.80             | 786.80                    | 368.55                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>56.59</i>              |                         |
| 26 05 36 00-1561 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....928.48             | 928.48                    | 434.55                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>66.85</i>              |                         |
| 26 05 36 00-1562 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....1,109.24           | 1,109.24                  | 527.91                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>78.39</i>              |                         |
| 26 05 36 00-1563 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....1,208.19           | 1,208.19                  | 568.37                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>86.51</i>              |                         |
| 26 05 36 00-1564 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....1,417.50           | 1,417.50                  | 670.66                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>100.84</i>             |                         |
| <b>26 05 36 00-1565 24" Radius Horizontal Tees</b> <small>(26 05 36 00-1494)</small>                       |                           |                         |
| 26 05 36 00-1566 EA 6" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....782.24              | 782.24                    | 320.87                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>63.85</i>              |                         |
| 26 05 36 00-1567 EA 12" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....971.30             | 971.30                    | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>77.39</i>              |                         |
| 26 05 36 00-1568 EA 18" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....1,139.98           | 1,139.98                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>89.00</i>              |                         |
| 26 05 36 00-1569 EA 24" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....1,459.00           | 1,459.00                  | 615.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>116.30</i>             |                         |
| 26 05 36 00-1570 EA 30" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....1,590.00           | 1,590.00                  | 670.66                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>126.71</i>             |                         |
| 26 05 36 00-1571 EA 36" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....1,879.21           | 1,879.21                  | 821.10                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>145.03</i>             |                         |
| <b>26 05 36 00-1572 36" Radius Horizontal Tees</b> <small>(26 05 36 00-1494)</small>                       |                           |                         |
| 26 05 36 00-1573 EA 6" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....974.34              | 974.34                    | 351.79                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>87.53</i>              |                         |
| 26 05 36 00-1574 EA 12" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....1,202.63           | 1,202.63                  | 461.46                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>103.48</i>             |                         |
| 26 05 36 00-1575 EA 18" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....1,419.28           | 1,419.28                  | 568.37                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>118.18</i>             |                         |
| 26 05 36 00-1576 EA 24" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....1,723.91           | 1,723.91                  | 670.66                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>146.80</i>             |                         |
| 26 05 36 00-1577 EA 30" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....1,890.77           | 1,890.77                  | 739.57                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>160.36</i>             |                         |
| 26 05 36 00-1578 EA 36" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....2,219.14           | 2,219.14                  | 922.93                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>179.05</i>             |                         |
| <b>26 05 36 00-1579 12" Radius Vertical Tees</b> <small>(26 05 36 00-1494)</small>                         |                           |                         |
| 26 05 36 00-1580 EA 6" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....753.41                | 753.41                    | 295.50                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>63.77</i>              |                         |
| 26 05 36 00-1581 EA 12" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....887.65               | 887.65                    | 369.17                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>71.62</i>              |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1582 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 959.95<br>75.69           | 409.78                  |
| 26 05 36 00-1583 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,026.99<br>81.76         | 433.78                  |
| 26 05 36 00-1584 EA 30" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,144.52<br>89.68         | 491.92                  |
| 26 05 36 00-1585 EA 36" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,283.09<br>97.75         | 568.37                  |
| <b>26 05 36 00-1586 24" Radius Vertical Tees</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1587 EA 6" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>      | 920.70<br>84.62           | 320.87                  |
| 26 05 36 00-1588 EA 12" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,087.06<br>94.76         | 409.78                  |
| 26 05 36 00-1589 EA 18" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,193.55<br>102.12        | 461.46                  |
| 26 05 36 00-1590 EA 24" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,264.81<br>107.73        | 491.92                  |
| 26 05 36 00-1591 EA 30" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,435.17<br>120.56        | 568.37                  |
| 26 05 36 00-1592 EA 36" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,628.58<br>132.50        | 670.66                  |
| <b>26 05 36 00-1593 36" Radius Vertical Tees</b> <small>(26 05 36 00-1494)</small>  |                           |                         |
| 26 05 36 00-1594 EA 6" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>      | 1,186.81<br>119.49        | 351.17                  |
| 26 05 36 00-1595 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,381.94<br>130.38        | 461.46                  |
| 26 05 36 00-1596 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,536.21<br>142.63        | 526.84                  |
| 26 05 36 00-1597 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,628.10<br>149.50        | 568.37                  |
| 26 05 36 00-1598 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,912.30<br>175.06        | 670.66                  |
| 26 05 36 00-1599 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 2,068.41<br>187.40        | 737.12                  |
| <b>26 05 36 00-1600 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1494)</small>   |                           |                         |
| 26 05 36 00-1601 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 805.94<br>59.36           | 369.17                  |
| 26 05 36 00-1602 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 930.75<br>67.19           | 434.55                  |
| 26 05 36 00-1603 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,120.84<br>80.33         | 526.84                  |
| 26 05 36 00-1604 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,297.85<br>92.13         | 615.28                  |
| 26 05 36 00-1605 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,532.75<br>107.05        | 737.12                  |
| 26 05 36 00-1606 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,702.17<br>118.47        | 821.10                  |
| <b>26 05 36 00-1607 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1494)</small>   |                           |                         |
| 26 05 36 00-1608 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 1,031.53<br>86.30         | 410.55                  |
| 26 05 36 00-1609 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,208.07<br>99.22         | 491.92                  |
| 26 05 36 00-1610 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,459.00<br>116.30        | 615.28                  |
| 26 05 36 00-1611 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,788.63<br>145.04        | 739.57                  |
| 26 05 36 00-1612 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,970.01<br>158.65        | 821.10                  |
| 26 05 36 00-1613 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,173.74<br>172.24        | 922.93                  |
| <b>26 05 36 00-1614 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1494)</small>   |                           |                         |
| 26 05 36 00-1615 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 1,336.55<br>123.57        | 461.46                  |
| 26 05 36 00-1616 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,571.35<br>140.99        | 568.37                  |
| 26 05 36 00-1617 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,913.47<br>163.77        | 739.57                  |
| 26 05 36 00-1618 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,174.28<br>189.29        | 821.10                  |
| 26 05 36 00-1619 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,412.07<br>207.99        | 922.93                  |
| 26 05 36 00-1620 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,686.55<br>227.39        | 1,053.53                |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 36 00-1621 Straight Reducers</b> <small>(26 05 36 00-1494)</small>                                  |                           |                         |
| 26 05 36 00-1622 EA 12" To 6" Reducer, Solid Bottom, Steel Cable Tray.....                                   | 316.32                    | 123.05                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>26.94</i>              |                         |
| 26 05 36 00-1623 EA 18" To 12" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 345.28                    | 139.05                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>28.61</i>              |                         |
| 26 05 36 00-1624 EA 24" To 18" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 385.09                    | 160.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>31.06</i>              |                         |
| 26 05 36 00-1625 EA 30" To 24" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 434.76                    | 184.58                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>34.45</i>              |                         |
| 26 05 36 00-1626 EA 36" To 30" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 472.87                    | 204.74                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>36.81</i>              |                         |
| <b>26 05 36 00-1627 Reducers</b> <small>(26 05 36 00-1494)</small>   |                           |                         |
| 26 05 36 00-1628 EA 18" To 6" Reducer, Solid Bottom, Steel Cable Tray.....                                   | 345.42                    | 139.21                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>28.62</i>              |                         |
| 26 05 36 00-1629 EA 24" To 12" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 383.37                    | 160.59                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>30.74</i>              |                         |
| 26 05 36 00-1630 EA 30" To 12" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 429.97                    | 184.43                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>33.76</i>              |                         |
| 26 05 36 00-1631 EA 30" To 18" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 432.00                    | 184.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>34.08</i>              |                         |
| 26 05 36 00-1632 EA 36" To 12" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 470.60                    | 204.74                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>36.47</i>              |                         |
| 26 05 36 00-1633 EA 36" To 18" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 472.87                    | 204.74                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>36.81</i>              |                         |
| 26 05 36 00-1634 EA 36" To 24" Reducer, Solid Bottom, Steel Cable Tray.....                                  | 475.75                    | 205.05                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>37.18</i>              |                         |
| <b>26 05 36 00-1635 Dropout Or End Plate</b> <small>(26 05 36 00-1494)</small>                               |                           |                         |
| 26 05 36 00-1636 EA 6" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....                            | 100.06                    | 46.15                   |
| 26 05 36 00-1637 EA 12" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....                           | 122.67                    | 56.30                   |
| 26 05 36 00-1638 EA 18" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....                           | 142.23                    | 66.76                   |
| 26 05 36 00-1639 EA 24" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....                           | 159.48                    | 73.84                   |
| 26 05 36 00-1640 EA 30" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....                           | 177.47                    | 81.98                   |
| 26 05 36 00-1641 EA 36" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....                           | 197.51                    | 92.29                   |
| <b>26 05 36 00-1642 Solid Bottom Aluminum Straight Cable Tray Sections</b> <small>(26 05 36 00-1486)</small> |                           |                         |
| 26 05 36 00-1643 LF 6" Solid Bottom Aluminum Cable Tray, Straight Section.....                               | 30.71                     | 9.69                    |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>2.99</i>               |                         |
| 26 05 36 00-1644 LF 12" Solid Bottom Aluminum Cable Tray, Straight Section.....                              | 37.97                     | 11.38                   |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>3.81</i>               |                         |
| 26 05 36 00-1645 LF 18" Solid Bottom Aluminum Cable Tray, Straight Section.....                              | 48.67                     | 14.77                   |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>4.83</i>               |                         |
| 26 05 36 00-1646 LF 24" Solid Bottom Aluminum Cable Tray, Straight Section.....                              | 57.29                     | 16.31                   |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>5.89</i>               |                         |
| 26 05 36 00-1647 LF 30" Solid Bottom Aluminum Cable Tray, Straight Section.....                              | 70.72                     | 21.08                   |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>7.10</i>               |                         |
| 26 05 36 00-1648 LF 36" Solid Bottom Steel Aluminum Tray, Straight Section.....                              | 83.29                     | 23.07                   |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>8.64</i>               |                         |
| <b>26 05 36 00-1649 Solid Bottom Aluminum Cable Tray Fittings</b> <small>(26 05 36 00-1486)</small>          |                           |                         |
| <b>26 05 36 00-1650 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>            |                           |                         |
| 26 05 36 00-1651 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....       | 373.43                    | 153.98                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>30.36</i>              |                         |
| 26 05 36 00-1652 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....      | 454.66                    | 193.82                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>35.88</i>              |                         |
| 26 05 36 00-1653 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....      | 522.49                    | 217.04                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>42.20</i>              |                         |
| 26 05 36 00-1654 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....      | 609.39                    | 254.88                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>48.92</i>              |                         |
| 26 05 36 00-1655 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....      | 717.68                    | 295.80                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>58.35</i>              |                         |
| 26 05 36 00-1656 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....      | 811.81                    | 335.80                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>65.80</i>              |                         |
| <b>26 05 36 00-1657 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>            |                           |                         |
| 26 05 36 00-1658 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....       | 433.45                    | 160.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>38.29</i>              |                         |
| 26 05 36 00-1659 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....      | 539.39                    | 205.35                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>46.70</i>              |                         |
| 26 05 36 00-1660 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....      | 609.21                    | 230.73                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>52.93</i>              |                         |
| 26 05 36 00-1661 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....      | 733.25                    | 273.34                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | <i>64.42</i>              |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1662 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 851.91<br>74.38           | 320.41                  |
| 26 05 36 00-1663 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 980.58<br>85.56           | 369.17                  |
| <b>26 05 36 00-1664 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1665 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 525.64<br>50.94           | 167.51                  |
| 26 05 36 00-1666 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 658.33<br>62.51           | 217.50                  |
| 26 05 36 00-1667 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 761.53<br>73.14           | 246.58                  |
| 26 05 36 00-1668 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 868.01<br>81.03           | 295.03                  |
| 26 05 36 00-1669 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,011.78<br>93.15         | 351.79                  |
| 26 05 36 00-1670 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,180.46<br>108.89        | 409.16                  |
| <b>26 05 36 00-1671 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1672 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 347.89<br>26.51           | 153.98                  |
| 26 05 36 00-1673 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 425.73<br>31.54           | 193.82                  |
| 26 05 36 00-1674 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 486.79<br>36.88           | 216.89                  |
| 26 05 36 00-1675 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 567.87<br>42.78           | 254.42                  |
| 26 05 36 00-1676 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 668.25<br>50.94           | 295.80                  |
| 26 05 36 00-1677 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 754.73<br>57.40           | 334.87                  |
| <b>26 05 36 00-1678 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1679 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 397.07<br>32.82           | 160.44                  |
| 26 05 36 00-1680 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 495.69<br>40.17           | 205.05                  |
| 26 05 36 00-1681 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 560.55<br>45.55           | 231.19                  |
| 26 05 36 00-1682 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 672.18<br>55.26           | 273.34                  |
| 26 05 36 00-1683 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 783.48<br>63.96           | 321.33                  |
| 26 05 36 00-1684 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 900.21<br>73.50           | 369.17                  |
| <b>26 05 36 00-1685 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1686 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 471.80<br>42.82           | 167.66                  |
| 26 05 36 00-1687 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 592.55<br>52.71           | 217.04                  |
| 26 05 36 00-1688 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 684.38<br>61.57           | 246.58                  |
| 26 05 36 00-1689 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 786.50<br>68.67           | 295.80                  |
| 26 05 36 00-1690 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 918.15<br>79.10           | 351.79                  |
| 26 05 36 00-1691 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,073.19<br>92.55         | 410.55                  |
| <b>26 05 36 00-1692 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1693 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>    | 394.67<br>33.61           | 153.52                  |
| 26 05 36 00-1694 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>   | 467.44<br>37.80           | 193.82                  |
| 26 05 36 00-1695 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>   | 524.32<br>42.47           | 217.04                  |
| 26 05 36 00-1696 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>   | 596.61<br>47.00           | 254.88                  |
| 26 05 36 00-1697 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>   | 675.67<br>52.05           | 295.80                  |
| 26 05 36 00-1698 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>   | 746.26<br>56.13           | 334.87                  |
| <b>26 05 36 00-1699 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1649)</small>   |                           |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1700 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray.....  | 464.50                    | 160.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 42.95                     |                         |
| 26 05 36 00-1701 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... | 555.83                    | 205.35                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 49.16                     |                         |
| 26 05 36 00-1702 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... | 614.69                    | 230.73                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 53.75                     |                         |
| 26 05 36 00-1703 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... | 705.86                    | 273.34                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 60.32                     |                         |
| 26 05 36 00-1704 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... | 798.94                    | 320.41                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 66.43                     |                         |
| 26 05 36 00-1705 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... | 907.52                    | 369.17                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 74.60                     |                         |
| <b>26 05 36 00-1706 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1649)</b>                     |                           |                         |
| 26 05 36 00-1707 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray.....  | 538.43                    | 167.51                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 52.86                     |                         |
| 26 05 36 00-1708 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... | 654.68                    | 217.50                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 61.96                     |                         |
| 26 05 36 00-1709 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... | 728.66                    | 246.58                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 68.21                     |                         |
| 26 05 36 00-1710 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... | 822.35                    | 295.03                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 74.18                     |                         |
| 26 05 36 00-1711 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... | 951.51                    | 351.79                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 84.11                     |                         |
| 26 05 36 00-1712 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... | 1,061.74                  | 409.16                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 91.08                     |                         |
| <b>26 05 36 00-1713 12" Radius Horizontal Tees (26 05 36 00-1649)</b>                                |                           |                         |
| 26 05 36 00-1714 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....            | 673.21                    | 295.50                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 51.74                     |                         |
| 26 05 36 00-1715 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....           | 777.31                    | 334.87                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 60.78                     |                         |
| 26 05 36 00-1716 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....           | 861.85                    | 369.17                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 67.75                     |                         |
| 26 05 36 00-1717 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....           | 960.06                    | 410.55                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 75.58                     |                         |
| 26 05 36 00-1718 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....           | 1,137.75                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 88.67                     |                         |
| 26 05 36 00-1719 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....           | 1,390.78                  | 615.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 106.07                    |                         |
| <b>26 05 36 00-1720 24" Radius Horizontal Tees (26 05 36 00-1649)</b>                                |                           |                         |
| 26 05 36 00-1721 EA 6" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray.....            | 832.56                    | 320.87                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 71.40                     |                         |
| 26 05 36 00-1722 EA 12" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray.....           | 951.35                    | 369.17                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 81.17                     |                         |
| 26 05 36 00-1723 EA 18" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray.....           | 1,062.95                  | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 91.14                     |                         |
| 26 05 36 00-1724 EA 24" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray.....           | 1,285.69                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 110.86                    |                         |
| 26 05 36 00-1725 EA 30" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray.....           | 1,555.16                  | 615.28                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 130.73                    |                         |
| 26 05 36 00-1726 EA 36" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray.....           | 1,714.76                  | 672.66                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 145.10                    |                         |
| <b>26 05 36 00-1727 36" Radius Horizontal Tees (26 05 36 00-1649)</b>                                |                           |                         |
| 26 05 36 00-1728 EA 6" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray.....            | 1,070.23                  | 351.79                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 101.91                    |                         |
| 26 05 36 00-1729 EA 12" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray.....           | 1,212.72                  | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 113.60                    |                         |
| 26 05 36 00-1730 EA 18" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray.....           | 1,380.98                  | 461.46                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 130.24                    |                         |
| 26 05 36 00-1731 EA 24" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray.....           | 1,657.18                  | 566.83                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 154.09                    |                         |
| 26 05 36 00-1732 EA 30" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray.....           | 2,017.93                  | 739.57                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 179.44                    |                         |
| 26 05 36 00-1733 EA 36" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray.....           | 2,245.23                  | 821.10                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 199.93                    |                         |
| <b>26 05 36 00-1734 12" Radius Vertical Tees (26 05 36 00-1649)</b>                                  |                           |                         |
| 26 05 36 00-1735 EA 6" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....              | 749.92                    | 295.50                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 63.25                     |                         |
| 26 05 36 00-1736 EA 12" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....             | 821.96                    | 335.33                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 67.40                     |                         |
| 26 05 36 00-1737 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....             | 859.29                    | 351.17                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 70.36                     |                         |
| 26 05 36 00-1738 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray.....             | 906.54                    | 368.55                  |
| <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 74.55                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1739 EA 30" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,000.85<br>81.82         | 409.78                  |
| 26 05 36 00-1740 EA 36" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,156.01<br>91.41         | 491.92                  |
| <b>26 05 36 00-1741 24" Radius Vertical Tees</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1742 EA 6" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>      | 914.75<br>83.73           | 320.87                  |
| 26 05 36 00-1743 EA 12" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,017.11<br>91.04         | 369.17                  |
| 26 05 36 00-1744 EA 18" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,076.62<br>96.75         | 388.40                  |
| 26 05 36 00-1745 EA 24" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,148.79<br>104.01        | 409.78                  |
| 26 05 36 00-1746 EA 30" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,280.52<br>115.17        | 461.46                  |
| 26 05 36 00-1747 EA 36" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,483.66<br>128.06        | 566.83                  |
| <b>26 05 36 00-1748 36" Radius Vertical Tees</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1749 EA 6" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>      | 1,178.93<br>118.31        | 351.17                  |
| 26 05 36 00-1750 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,295.66<br>126.88        | 404.86                  |
| 26 05 36 00-1751 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,380.37<br>134.77        | 433.78                  |
| 26 05 36 00-1752 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,444.91<br>139.83        | 461.46                  |
| 26 05 36 00-1753 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,608.57<br>153.49        | 526.84                  |
| 26 05 36 00-1754 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>     | 1,198.26<br>67.95         | 670.66                  |
| <b>26 05 36 00-1755 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1649)</small>  |                           |                         |
| 26 05 36 00-1756 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 789.09<br>62.47           | 335.33                  |
| 26 05 36 00-1757 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 874.64<br>69.67           | 369.17                  |
| 26 05 36 00-1758 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,018.73<br>80.53         | 433.78                  |
| 26 05 36 00-1759 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,214.05<br>94.31         | 526.84                  |
| 26 05 36 00-1760 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,324.76<br>104.23        | 566.83                  |
| 26 05 36 00-1761 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,541.24<br>119.07        | 672.66                  |
| <b>26 05 36 00-1762 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1649)</small>  |                           |                         |
| 26 05 36 00-1763 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 1,018.11<br>91.09         | 369.78                  |
| 26 05 36 00-1764 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,148.79<br>104.01        | 409.78                  |
| 26 05 36 00-1765 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,325.88<br>116.89        | 491.92                  |
| 26 05 36 00-1766 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,640.09<br>143.19        | 616.98                  |
| 26 05 36 00-1767 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,796.95<br>157.43        | 672.66                  |
| 26 05 36 00-1768 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,071.71<br>173.90        | 821.10                  |
| <b>26 05 36 00-1769 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1649)</small>  |                           |                         |
| 26 05 36 00-1770 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>  | 1,367.97<br>136.89        | 409.78                  |
| 26 05 36 00-1771 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,508.83<br>149.41        | 461.46                  |
| 26 05 36 00-1772 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 1,769.09<br>170.65        | 568.37                  |
| 26 05 36 00-1773 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,127.52<br>195.87        | 739.57                  |
| 26 05 36 00-1774 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,336.55<br>213.63        | 821.10                  |
| 26 05 36 00-1775 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i> | 2,670.63<br>246.77        | 922.93                  |
| <b>26 05 36 00-1776 Straight Reducers</b> <small>(26 05 36 00-1649)</small>  |                           |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1777 EA 12" To 6" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                       | 289.16<br>25.78           | 105.52                  |
| 26 05 36 00-1778 EA 18" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 321.66<br>27.77           | 122.90                  |
| 26 05 36 00-1779 EA 24" To 18" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 355.99<br>30.22           | 139.05                  |
| 26 05 36 00-1780 EA 30" To 24" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 402.59<br>33.65           | 160.44                  |
| 26 05 36 00-1781 EA 36" To 30" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 449.63<br>36.73           | 184.28                  |
| <b>26 05 36 00-1782 Reducers</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1783 EA 18" To 6" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                       | 319.95<br>27.50           | 122.90                  |
| 26 05 36 00-1784 EA 24" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 354.59<br>29.97           | 139.36                  |
| 26 05 36 00-1785 EA 30" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 398.75<br>33.09           | 160.28                  |
| 26 05 36 00-1786 EA 30" To 18" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 400.39<br>33.35           | 160.28                  |
| 26 05 36 00-1787 EA 36" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 449.63<br>36.73           | 184.28                  |
| 26 05 36 00-1788 EA 36" To 18" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 451.45<br>37.00           | 184.28                  |
| 26 05 36 00-1789 EA 36" To 24" Reducer, Solid Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>                      | 455.59<br>37.57           | 184.58                  |
| <b>26 05 36 00-1790 Dropout Or End Plate</b> <small>(26 05 36 00-1649)</small>   |                           |                         |
| 26 05 36 00-1791 EA 6" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....  | 100.01                    | 46.15                   |
| 26 05 36 00-1792 EA 12" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....   | 119.96                    | 56.30                   |
| 26 05 36 00-1793 EA 18" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....   | 142.59                    | 66.76                   |
| 26 05 36 00-1794 EA 24" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....   | 157.48                    | 73.84                   |
| 26 05 36 00-1795 EA 30" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....   | 176.79                    | 81.98                   |
| 26 05 36 00-1796 EA 36" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....   | 200.40                    | 92.29                   |
| <b>26 05 36 00-1797 Vented Bottom Cable Tray</b> <small>(26 05 36 00-0001)</small><br>Note: 6" Height.   |                           |                         |
| <b>26 05 36 00-1798 Vented Bottom Galvanized Steel Cable Tray</b> <small>(26 05 36 00-1797)</small>  |                           |                         |
| 26 05 36 00-1799 LF 6" Vented Bottom Steel Cable Tray, Straight Section.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                         | 46.88<br>-3.34            | 16.15                   |
| 26 05 36 00-1800 LF 12" Vented Bottom Steel Cable Tray, Straight Section.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                        | 55.00<br>-3.97            | 18.46                   |
| 26 05 36 00-1801 LF 18" Vented Bottom Steel Cable Tray, Straight Section.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                        | 64.64<br>-4.69            | 21.23                   |
| 26 05 36 00-1802 LF 24" Vented Bottom Steel Cable Tray, Straight Section.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                        | 74.17<br>-5.39            | 24.30                   |
| 26 05 36 00-1803 LF 30" Vented Bottom Steel Cable Tray, Straight Section.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                        | 97.19<br>-7.27            | 29.38                   |
| 26 05 36 00-1804 LF 36" Vented Bottom Steel Cable Tray, Straight Section.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                        | 115.52<br>-8.47           | 36.91                   |
| <b>26 05 36 00-1805 Vented Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-1797)</small>   |                           |                         |
| <b>26 05 36 00-1806 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1807 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 446.62<br>-28.46          | 194.43                  |
| 26 05 36 00-1808 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 584.05<br>-36.48          | 263.04                  |
| 26 05 36 00-1809 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 726.29<br>-44.68          | 335.33                  |
| 26 05 36 00-1810 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 890.57<br>-54.84          | 410.55                  |
| 26 05 36 00-1811 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,004.46<br>-61.91        | 462.39                  |
| 26 05 36 00-1812 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,150.49<br>-71.05        | 527.91                  |
| <b>26 05 36 00-1813 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1814 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 522.63<br>-35.19          | 204.89                  |
| 26 05 36 00-1815 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 682.20<br>-44.54          | 284.11                  |
| 26 05 36 00-1816 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 867.44<br>-55.98          | 369.17                  |
| 26 05 36 00-1817 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,053.36<br>-66.88        | 461.46                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1818 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,122.35<br>-72.51        | 476.69                  |
| 26 05 36 00-1819 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,406.01<br>-89.33        | 615.28                  |
| <b>26 05 36 00-1820 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1821 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 631.58<br>-45.10          | 216.58                  |
| 26 05 36 00-1822 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 822.90<br>-56.62          | 308.11                  |
| 26 05 36 00-1823 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,055.62<br>-71.35        | 410.55                  |
| 26 05 36 00-1824 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,269.97<br>-83.10        | 526.84                  |
| 26 05 36 00-1825 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,465.61<br>-95.29        | 615.28                  |
| 26 05 36 00-1826 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,719.17<br>-110.49       | 737.12                  |
| <b>26 05 36 00-1827 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1828 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 419.91<br>-25.78          | 194.58                  |
| 26 05 36 00-1829 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 552.02<br>-33.28          | 263.04                  |
| 26 05 36 00-1830 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 688.66<br>-40.96          | 334.87                  |
| 26 05 36 00-1831 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 843.96<br>-50.24          | 409.78                  |
| 26 05 36 00-1832 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 953.02<br>-56.77          | 462.39                  |
| 26 05 36 00-1833 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,088.97<br>-65.00        | 526.84                  |
| <b>26 05 36 00-1834 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1835 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 483.09<br>-31.22          | 205.05                  |
| 26 05 36 00-1836 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 636.30<br>-39.95          | 284.11                  |
| 26 05 36 00-1837 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 812.96<br>-50.48          | 369.78                  |
| 26 05 36 00-1838 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 990.83<br>-60.63          | 461.46                  |
| 26 05 36 00-1839 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,135.68<br>-69.57        | 527.91                  |
| 26 05 36 00-1840 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,322.30<br>-80.96        | 615.28                  |
| <b>26 05 36 00-1841 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1842 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 572.75<br>-39.19          | 217.04                  |
| 26 05 36 00-1843 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 753.44<br>-49.74          | 307.19                  |
| 26 05 36 00-1844 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 973.92<br>-63.18          | 410.55                  |
| 26 05 36 00-1845 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,185.75<br>-74.58        | 527.91                  |
| 26 05 36 00-1846 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,368.78<br>-85.60        | 615.28                  |
| 26 05 36 00-1847 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,615.18<br>-99.89        | 739.57                  |
| <b>26 05 36 00-1848 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1849 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>    | 481.32<br>-31.97          | 193.82                  |
| 26 05 36 00-1850 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 614.99<br>-39.58          | 263.04                  |
| 26 05 36 00-1851 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 737.75<br>-45.83          | 335.33                  |
| 26 05 36 00-1852 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 888.28<br>-54.62          | 410.55                  |
| 26 05 36 00-1853 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 979.25<br>-59.39          | 462.39                  |
| 26 05 36 00-1854 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray .....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 1,098.05<br>-65.91        | 526.84                  |
| <b>26 05 36 00-1855 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1805)</small>   |                           |                         |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 05 36 00-1856        | EA  | 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 568.47<br>-39.77          | 204.89                  |
| 26 05 36 00-1857        | EA  | 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 714.29<br>-47.75          | 284.11                  |
| 26 05 36 00-1858        | EA  | 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 881.19<br>-57.36          | 369.17                  |
| 26 05 36 00-1859        | EA  | 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,044.19<br>-65.96        | 461.46                  |
| 26 05 36 00-1860        | EA  | 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,187.45<br>-74.85        | 526.84                  |
| 26 05 36 00-1861        | EA  | 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,348.70<br>-83.60        | 615.28                  |
| <b>26 05 36 00-1862</b> |     | <b>90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1863        | EA  | 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 668.26<br>-48.77          | 216.58                  |
| 26 05 36 00-1864        | EA  | 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 838.95<br>-58.22          | 308.11                  |
| 26 05 36 00-1865        | EA  | 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,046.45<br>-70.43        | 410.55                  |
| 26 05 36 00-1866        | EA  | 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,265.39<br>-82.64        | 526.84                  |
| 26 05 36 00-1867        | EA  | 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,422.06<br>-90.93        | 615.28                  |
| 26 05 36 00-1868        | EA  | 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,668.73<br>-105.44       | 737.12                  |
| <b>26 05 36 00-1869</b> |     | <b>12" Radius Horizontal Tees</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1870        | EA  | 6" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>            | 800.96<br>-49.33          | 369.17                  |
| 26 05 36 00-1871        | EA  | 12" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 973.88<br>-59.01          | 460.54                  |
| 26 05 36 00-1872        | EA  | 18" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,113.81<br>-67.38        | 527.91                  |
| 26 05 36 00-1873        | EA  | 24" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,295.98<br>-78.32        | 615.28                  |
| 26 05 36 00-1874        | EA  | 30" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,427.36<br>-86.84        | 670.66                  |
| 26 05 36 00-1875        | EA  | 36" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,567.87<br>-95.36        | 737.12                  |
| <b>26 05 36 00-1876</b> |     | <b>24" Radius Horizontal Tees</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1877        | EA  | 6" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>            | 990.22<br>-64.87          | 409.78                  |
| 26 05 36 00-1878        | EA  | 12" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,212.67<br>-77.37        | 526.84                  |
| 26 05 36 00-1879        | EA  | 18" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,399.14<br>-88.64        | 615.28                  |
| 26 05 36 00-1880        | EA  | 24" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,714.58<br>-110.03       | 737.12                  |
| 26 05 36 00-1881        | EA  | 30" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,895.76<br>-121.15       | 821.10                  |
| 26 05 36 00-1882        | EA  | 36" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 2,120.47<br>-135.14       | 922.93                  |
| <b>26 05 36 00-1883</b> |     | <b>36" Radius Horizontal Tees</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1884        | EA  | 6" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>            | 1,209.24<br>-82.47        | 461.46                  |
| 26 05 36 00-1885        | EA  | 12" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,527.51<br>-101.48       | 615.28                  |
| 26 05 36 00-1886        | EA  | 18" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 1,780.42<br>-116.42       | 739.57                  |
| 26 05 36 00-1887        | EA  | 24" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 2,198.41<br>-142.93       | 922.93                  |
| 26 05 36 00-1888        | EA  | 30" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 2,463.18<br>-158.12       | 1,058.45                |
| 26 05 36 00-1889        | EA  | 36" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>           | 2,870.75<br>-184.80       | 1,227.34                |
| <b>26 05 36 00-1890</b> |     | <b>12" Radius Vertical Tees</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1891        | EA  | 6" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>              | 924.75<br>-61.77          | 369.17                  |
| 26 05 36 00-1892        | EA  | 12" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>             | 1,083.16<br>-69.86        | 461.46                  |
| 26 05 36 00-1893        | EA  | 18" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>             | 1,140.87<br>-73.09        | 491.92                  |
| 26 05 36 00-1894        | EA  | 24" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>             | 1,217.25<br>-77.83        | 526.84                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-1895 EA 30" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,307.07<br>-83.35        | 568.37                  |
| 26 05 36 00-1896 EA 36" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,484.67<br>-92.57        | 670.66                  |
| <b>26 05 36 00-1897 24" Radius Vertical Tees</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1898 EA 6" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>      | 1,097.96<br>-75.64        | 409.78                  |
| 26 05 36 00-1899 EA 12" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,313.53<br>-87.45        | 526.84                  |
| 26 05 36 00-1900 EA 18" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,403.35<br>-92.98        | 568.37                  |
| 26 05 36 00-1901 EA 24" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,516.05<br>-100.33       | 615.28                  |
| 26 05 36 00-1902 EA 30" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,633.67<br>-107.47       | 670.66                  |
| 26 05 36 00-1903 EA 36" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,927.86<br>-124.36       | 821.10                  |
| <b>26 05 36 00-1904 36" Radius Vertical Tees</b> <small>(26 05 36 00-1805)</small>   |                           |                         |
| 26 05 36 00-1905 EA 6" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>      | 1,427.77<br>-104.40       | 460.54                  |
| 26 05 36 00-1906 EA 12" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,701.73<br>-118.90       | 615.28                  |
| 26 05 36 00-1907 EA 18" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,817.06<br>-125.81       | 670.66                  |
| 26 05 36 00-1908 EA 24" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 1,977.56<br>-136.13       | 739.57                  |
| 26 05 36 00-1909 EA 30" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 2,228.16<br>-154.39       | 821.10                  |
| 26 05 36 00-1910 EA 36" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>     | 2,627.05<br>-174.91       | 1,053.53                |
| <b>26 05 36 00-1911 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1912 EA 6" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 1,007.52<br>-62.30        | 461.46                  |
| 26 05 36 00-1913 EA 12" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,120.69<br>-68.07        | 527.91                  |
| 26 05 36 00-1914 EA 18" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,293.69<br>-78.10        | 615.28                  |
| 26 05 36 00-1915 EA 24" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,510.56<br>-89.63        | 737.12                  |
| 26 05 36 00-1916 EA 30" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,680.02<br>-99.82        | 818.18                  |
| 26 05 36 00-1917 EA 36" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,893.53<br>-112.44       | 922.93                  |
| <b>26 05 36 00-1918 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1919 EA 6" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 1,253.65<br>-81.37        | 527.91                  |
| 26 05 36 00-1920 EA 12" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,417.47<br>-90.47        | 615.28                  |
| 26 05 36 00-1921 EA 18" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,659.56<br>-104.53       | 737.12                  |
| 26 05 36 00-1922 EA 24" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 2,086.09<br>-131.70       | 922.93                  |
| 26 05 36 00-1923 EA 30" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 2,361.13<br>-148.32       | 1,053.53                |
| 26 05 36 00-1924 EA 36" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 2,687.36<br>-166.46       | 1,227.34                |
| <b>26 05 36 00-1925 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1805)</small>  |                           |                         |
| 26 05 36 00-1926 EA 6" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 1,655.88<br>-114.31       | 615.28                  |
| 26 05 36 00-1927 EA 12" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,895.03<br>-127.88       | 739.57                  |
| 26 05 36 00-1928 EA 18" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 2,214.46<br>-144.54       | 922.93                  |
| 26 05 36 00-1929 EA 24" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 2,870.23<br>-184.20       | 1,233.80                |
| 26 05 36 00-1930 EA 30" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 3,359.11<br>-212.66       | 1,478.99                |
| 26 05 36 00-1931 EA 36" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 4,039.22<br>-250.10       | 1,845.86                |
| <b>26 05 36 00-1932 Straight Reducers</b> <small>(26 05 36 00-1805)</small>  |                           |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-1933        | EA  |     | 12" To 6" Reducer, Vented Bottom, Steel Cable Tray .....                             | 377.72                 | 157.20               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -24.67                 |                      |
| 26 05 36 00-1934        | EA  |     | 18" To 12" Reducer, Vented Bottom, Steel Cable Tray .....                            | 413.01                 | 175.67               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -26.67                 |                      |
| 26 05 36 00-1935        | EA  |     | 24" To 18" Reducer, Vented Bottom, Steel Cable Tray .....                            | 469.59                 | 204.74               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -29.90                 |                      |
| 26 05 36 00-1936        | EA  |     | 30" To 24" Reducer, Vented Bottom, Steel Cable Tray .....                            | 517.51                 | 230.73               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -32.52                 |                      |
| 26 05 36 00-1937        | EA  |     | 36" To 30" Reducer, Vented Bottom, Steel Cable Tray .....                            | 565.65                 | 254.11               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -35.39                 |                      |
| <b>26 05 36 00-1938</b> |     |     | <b>Reducers</b> <small>(26 05 36 00-1805)</small>                                    |                        |                      |
| 26 05 36 00-1939        | EA  |     | 18" To 6" Reducer, Vented Bottom, Steel Cable Tray .....                             | 413.01                 | 175.67               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -26.67                 |                      |
| 26 05 36 00-1940        | EA  |     | 24" To 12" Reducer, Vented Bottom, Steel Cable Tray .....                            | 467.91                 | 205.05               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -29.70                 |                      |
| 26 05 36 00-1941        | EA  |     | 30" To 12" Reducer, Vented Bottom, Steel Cable Tray .....                            | 514.83                 | 230.42               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -32.27                 |                      |
| 26 05 36 00-1942        | EA  |     | 30" To 18" Reducer, Vented Bottom, Steel Cable Tray .....                            | 516.75                 | 230.27               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -32.49                 |                      |
| 26 05 36 00-1943        | EA  |     | 36" To 12" Reducer, Vented Bottom, Steel Cable Tray .....                            | 563.35                 | 254.11               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -35.16                 |                      |
| 26 05 36 00-1944        | EA  |     | 36" To 18" Reducer, Vented Bottom, Steel Cable Tray .....                            | 565.65                 | 254.11               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -35.39                 |                      |
| 26 05 36 00-1945        | EA  |     | 36" To 24" Reducer, Vented Bottom, Steel Cable Tray .....                            | 568.87                 | 254.72               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -35.66                 |                      |
| <b>26 05 36 00-1946</b> |     |     | <b>Dropout Or End Plate</b> <small>(26 05 36 00-1805)</small>                        |                        |                      |
| 26 05 36 00-1947        | EA  |     | 6" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....                       | 122.22                 | 56.76                |
| 26 05 36 00-1948        | EA  |     | 12" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....                      | 144.72                 | 66.61                |
| 26 05 36 00-1949        | EA  |     | 18" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....                      | 159.56                 | 73.53                |
| 26 05 36 00-1950        | EA  |     | 24" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....                      | 179.28                 | 81.98                |
| 26 05 36 00-1951        | EA  |     | 30" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....                      | 199.26                 | 92.14                |
| 26 05 36 00-1952        | EA  |     | 36" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....                      | 234.08                 | 110.13               |
| <b>26 05 36 00-1953</b> |     |     | <b>Vented Bottom Aluminum Cable Tray</b> <small>(26 05 36 00-1797)</small>           |                        |                      |
| 26 05 36 00-1954        | LF  |     | 6" Vented Bottom Aluminum Cable Tray, Straight Section .....                         | 40.73                  | 12.00                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -3.07                  |                      |
| 26 05 36 00-1955        | LF  |     | 9" Vented Bottom Aluminum Cable Tray, Straight Section .....                         | 45.09                  | 13.23                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -3.41                  |                      |
| 26 05 36 00-1956        | LF  |     | 12" Vented Bottom Aluminum Cable Tray, Straight Section .....                        | 50.46                  | 14.77                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -3.82                  |                      |
| 26 05 36 00-1957        | LF  |     | 18" Vented Bottom Aluminum Cable Tray, Straight Section .....                        | 58.53                  | 16.46                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -4.48                  |                      |
| 26 05 36 00-1958        | LF  |     | 24" Vented Bottom Aluminum Cable Tray, Straight Section .....                        | 66.89                  | 18.30                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -5.17                  |                      |
| 26 05 36 00-1959        | LF  |     | 30" Vented Bottom Aluminum Cable Tray, Straight Section .....                        | 84.15                  | 21.08                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -6.66                  |                      |
| 26 05 36 00-1960        | LF  |     | 36" Vented Bottom Aluminum Cable Tray, Straight Section .....                        | 94.12                  | 24.76                |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -7.35                  |                      |
| <b>26 05 36 00-1961</b> |     |     | <b>Vented Bottom Aluminum Cable Tray Fittings</b> <small>(26 05 36 00-1797)</small>  |                        |                      |
| <b>26 05 36 00-1962</b> |     |     | <b>90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>     |                        |                      |
| 26 05 36 00-1963        | EA  |     | 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray .....  | 499.80                 | 194.43               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -33.78                 |                      |
| 26 05 36 00-1964        | EA  |     | 9" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray .....  | 542.94                 | 211.05               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -36.70                 |                      |
| 26 05 36 00-1965        | EA  |     | 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... | 599.89                 | 237.65               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -40.19                 |                      |
| 26 05 36 00-1966        | EA  |     | 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... | 675.97                 | 263.34               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -45.65                 |                      |
| 26 05 36 00-1967        | EA  |     | 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... | 810.79                 | 321.33               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -54.30                 |                      |
| 26 05 36 00-1968        | EA  |     | 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... | 955.18                 | 369.78               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -64.70                 |                      |
| 26 05 36 00-1969        | EA  |     | 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... | 1,053.74               | 410.55               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -71.16                 |                      |
| <b>26 05 36 00-1970</b> |     |     | <b>90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>     |                        |                      |
| 26 05 36 00-1971        | EA  |     | 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray .....  | 596.34                 | 204.89               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -42.56                 |                      |
| 26 05 36 00-1972        | EA  |     | 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 722.58                 | 254.72               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -51.04                 |                      |
| 26 05 36 00-1973        | EA  |     | 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 817.59                 | 284.11               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -58.08                 |                      |
| 26 05 36 00-1974        | EA  |     | 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 977.73                 | 351.17               |
|                         |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                               | -68.51                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-1975 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,130.30<br>-78.94        | 409.16                  |
| 26 05 36 00-1976 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,253.25<br>-86.87        | 461.46                  |
| <b>26 05 36 00-1977 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>   |                           |                         |
| 26 05 36 00-1978 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 720.37<br>-53.98          | 216.58                  |
| 26 05 36 00-1979 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 866.43<br>-63.83          | 273.65                  |
| 26 05 36 00-1980 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 979.74<br>-72.30          | 308.11                  |
| 26 05 36 00-1981 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,157.03<br>-83.33        | 388.40                  |
| 26 05 36 00-1982 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,226.14<br>-91.25        | 376.40                  |
| 26 05 36 00-1983 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,527.75<br>-108.88       | 526.84                  |
| <b>26 05 36 00-1984 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>   |                           |                         |
| 26 05 36 00-1985 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 461.39<br>-29.93          | 194.58                  |
| 26 05 36 00-1986 EA 9" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 501.22<br>-32.51          | 211.35                  |
| 26 05 36 00-1987 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 555.04<br>-35.70          | 237.65                  |
| 26 05 36 00-1988 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 623.32<br>-40.41          | 263.04                  |
| 26 05 36 00-1989 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 749.49<br>-48.21          | 320.87                  |
| 26 05 36 00-1990 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 880.62<br>-57.25          | 369.78                  |
| 26 05 36 00-1991 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 971.23<br>-62.97          | 409.78                  |
| <b>26 05 36 00-1992 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>   |                           |                         |
| 26 05 36 00-1993 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 540.58<br>-36.97          | 205.05                  |
| 26 05 36 00-1994 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 656.99<br>-44.48          | 254.72                  |
| 26 05 36 00-1995 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 742.50<br>-50.54          | 284.57                  |
| 26 05 36 00-1996 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 892.29<br>-59.92          | 351.79                  |
| 26 05 36 00-1997 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,034.07<br>-69.19        | 410.55                  |
| 26 05 36 00-1998 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,146.74<br>-76.22        | 461.46                  |
| <b>26 05 36 00-1999 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>   |                           |                         |
| 26 05 36 00-2000 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | 642.00<br>-46.11          | 217.04                  |
| 26 05 36 00-2001 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 775.08<br>-54.75          | 273.04                  |
| 26 05 36 00-2002 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 877.15<br>-62.04          | 308.11                  |
| 26 05 36 00-2003 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,046.00<br>-72.18        | 389.17                  |
| 26 05 36 00-2004 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,191.27<br>-82.92        | 434.55                  |
| 26 05 36 00-2005 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 1,386.81<br>-94.68        | 527.91                  |
| <b>26 05 36 00-2006 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1961)</small>   |                           |                         |
| 26 05 36 00-2007 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>    | 537.19<br>-37.56          | 193.82                  |
| 26 05 36 00-2008 EA 9" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>    | 577.65<br>-40.22          | 210.58                  |
| 26 05 36 00-2009 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 625.37<br>-42.74          | 237.65                  |
| 26 05 36 00-2010 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 675.97<br>-45.65          | 263.34                  |
| 26 05 36 00-2011 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 798.05<br>-53.03          | 321.33                  |
| 26 05 36 00-2012 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 891.48<br>-58.33          | 369.78                  |
| 26 05 36 00-2013 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>   | 960.79<br>-61.93          | 409.78                  |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 05 36 00-2014 |     |     | <b>90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1961)</small>     |                        |                      |
| 26 05 36 00-2015 | EA  |     | 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray .....  | 629.47                 | 204.89               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -45.87                 |                      |
| 26 05 36 00-2016 | EA  |     | 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 737.87                 | 254.72               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -52.56                 |                      |
| 26 05 36 00-2017 | EA  |     | 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 815.04                 | 284.11               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -57.82                 |                      |
| 26 05 36 00-2018 | EA  |     | 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 932.76                 | 351.79               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -63.97                 |                      |
| 26 05 36 00-2019 | EA  |     | 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 1,047.42               | 409.78               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -70.59                 |                      |
| 26 05 36 00-2020 | EA  |     | 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... | 1,151.33               | 461.46               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -76.68                 |                      |
| 26 05 36 00-2021 |     |     | <b>90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1961)</small>     |                        |                      |
| 26 05 36 00-2022 | EA  |     | 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray .....  | 717.82                 | 216.58               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -53.73                 |                      |
| 26 05 36 00-2023 | EA  |     | 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... | 838.40                 | 273.65               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -61.03                 |                      |
| 26 05 36 00-2024 | EA  |     | 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... | 941.52                 | 308.11               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -68.48                 |                      |
| 26 05 36 00-2025 | EA  |     | 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... | 1,111.16               | 388.40               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -78.75                 |                      |
| 26 05 36 00-2026 | EA  |     | 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... | 1,233.83               | 434.55               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -87.17                 |                      |
| 26 05 36 00-2027 | EA  |     | 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... | 1,402.89               | 526.84               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -96.39                 |                      |
| 26 05 36 00-2028 |     |     | <b>12" Radius Horizontal Tees</b> <small>(26 05 36 00-1961)</small>                |                        |                      |
| 26 05 36 00-2029 | EA  |     | 6" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....            | 882.83                 | 369.17               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -57.52                 |                      |
| 26 05 36 00-2030 | EA  |     | 9" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....            | 922.60                 | 388.40               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -59.89                 |                      |
| 26 05 36 00-2031 | EA  |     | 12" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....           | 979.96                 | 409.16               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -63.90                 |                      |
| 26 05 36 00-2032 | EA  |     | 18" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....           | 1,117.19               | 462.39               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -73.19                 |                      |
| 26 05 36 00-2033 | EA  |     | 24" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....           | 1,275.49               | 526.84               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -83.65                 |                      |
| 26 05 36 00-2034 | EA  |     | 30" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....           | 1,451.02               | 615.28               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -93.83                 |                      |
| 26 05 36 00-2035 | EA  |     | 36" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....           | 1,602.03               | 670.66               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -104.31                |                      |
| 26 05 36 00-2036 |     |     | <b>24" Radius Horizontal Tees</b> <small>(26 05 36 00-1961)</small>                |                        |                      |
| 26 05 36 00-2037 | EA  |     | 6" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray .....            | 1,090.74               | 409.78               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -74.92                 |                      |
| 26 05 36 00-2038 | EA  |     | 12" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray .....           | 1,231.33               | 460.54               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -84.75                 |                      |
| 26 05 36 00-2039 | EA  |     | 18" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray .....           | 1,387.61               | 526.84               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -94.86                 |                      |
| 26 05 36 00-2040 | EA  |     | 24" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray .....           | 1,659.78               | 613.59               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -114.84                |                      |
| 26 05 36 00-2041 | EA  |     | 30" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray .....           | 1,920.54               | 739.57               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -130.43                |                      |
| 26 05 36 00-2042 | EA  |     | 36" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray .....           | 2,171.18               | 821.10               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -148.69                |                      |
| 26 05 36 00-2043 |     |     | <b>36" Radius Horizontal Tees</b> <small>(26 05 36 00-1961)</small>                |                        |                      |
| 26 05 36 00-2044 | EA  |     | 6" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray .....            | 1,423.98               | 461.46               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -103.94                |                      |
| 26 05 36 00-2045 | EA  |     | 12" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray .....           | 1,629.68               | 526.84               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -119.07                |                      |
| 26 05 36 00-2046 | EA  |     | 18" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray .....           | 1,710.08               | 513.92               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -128.19                |                      |
| 26 05 36 00-2047 | EA  |     | 24" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray .....           | 2,222.37               | 737.12               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -160.81                |                      |
| 26 05 36 00-2048 | EA  |     | 30" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray .....           | 2,601.86               | 926.62               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -182.97                |                      |
| 26 05 36 00-2049 | EA  |     | 36" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray .....           | 2,979.05               | 1,053.53             |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -210.11                |                      |
| 26 05 36 00-2050 |     |     | <b>12" Radius Vertical Tees</b> <small>(26 05 36 00-1961)</small>                  |                        |                      |
| 26 05 36 00-2051 | EA  |     | 6" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray .....              | 982.21                 | 369.17               |
|                  |     |     | <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                             | -67.46                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2052 EA 9" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray.....      | 1,016.88                  | 388.40                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -69.32                    |                         |
| 26 05 36 00-2053 EA 12" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray.....     | 1,080.55                  | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -73.90                    |                         |
| 26 05 36 00-2054 EA 18" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray.....     | 1,124.26                  | 434.55                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -76.22                    |                         |
| 26 05 36 00-2055 EA 24" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray.....     | 1,177.82                  | 460.54                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -79.40                    |                         |
| 26 05 36 00-2056 EA 30" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray.....     | 1,248.03                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -83.81                    |                         |
| 26 05 36 00-2057 EA 36" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray.....     | 1,390.77                  | 566.83                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -91.83                    |                         |
| <b>26 05 36 00-2058 24" Radius Vertical Tees</b> <small>(26 05 36 00-1961)</small>            |                           |                         |
| 26 05 36 00-2059 EA 6" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray.....      | 1,202.86                  | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -86.13                    |                         |
| 26 05 36 00-2060 EA 12" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray.....     | 1,328.16                  | 460.54                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -94.44                    |                         |
| 26 05 36 00-2061 EA 18" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray.....     | 1,418.75                  | 491.92                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -100.88                   |                         |
| 26 05 36 00-2062 EA 24" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray.....     | 1,515.01                  | 526.84                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -107.60                   |                         |
| 26 05 36 00-2063 EA 30" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray.....     | 1,632.85                  | 566.83                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -116.04                   |                         |
| 26 05 36 00-2064 EA 36" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray.....     | 1,821.89                  | 672.66                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -126.13                   |                         |
| <b>26 05 36 00-2065 36" Radius Vertical Tees</b> <small>(26 05 36 00-1961)</small>            |                           |                         |
| 26 05 36 00-2066 EA 6" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray.....      | 1,570.23                  | 460.54                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -118.64                   |                         |
| 26 05 36 00-2067 EA 12" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray.....     | 1,731.60                  | 526.84                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -129.26                   |                         |
| 26 05 36 00-2068 EA 18" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray.....     | 1,823.95                  | 566.83                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -135.15                   |                         |
| 26 05 36 00-2069 EA 24" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray.....     | 1,971.03                  | 616.98                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -145.69                   |                         |
| 26 05 36 00-2070 EA 30" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray.....     | 2,140.40                  | 672.66                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -157.98                   |                         |
| 26 05 36 00-2071 EA 36" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray.....     | 2,433.88                  | 818.18                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -175.20                   |                         |
| <b>26 05 36 00-2072 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1961)</small>       |                           |                         |
| 26 05 36 00-2073 EA 6" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....  | 1,016.84                  | 409.78                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -67.53                    |                         |
| 26 05 36 00-2074 EA 9" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....  | 1,080.94                  | 434.55                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -71.88                    |                         |
| 26 05 36 00-2075 EA 12" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray..... | 1,137.57                  | 462.39                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -75.23                    |                         |
| 26 05 36 00-2076 EA 18" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray..... | 1,262.75                  | 526.84                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -82.38                    |                         |
| 26 05 36 00-2077 EA 24" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray..... | 1,450.84                  | 613.59                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -93.95                    |                         |
| 26 05 36 00-2078 EA 30" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray..... | 1,634.46                  | 668.82                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -107.71                   |                         |
| 26 05 36 00-2079 EA 36" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray..... | 1,995.36                  | 821.10                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -131.11                   |                         |
| <b>26 05 36 00-2080 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1961)</small>       |                           |                         |
| 26 05 36 00-2081 EA 6" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....  | 1,369.45                  | 462.39                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -98.41                    |                         |
| 26 05 36 00-2082 EA 12" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray..... | 1,532.85                  | 526.84                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -109.39                   |                         |
| 26 05 36 00-2083 EA 18" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray..... | 1,728.58                  | 613.59                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -121.72                   |                         |
| 26 05 36 00-2084 EA 24" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray..... | 2,044.00                  | 737.12                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -142.97                   |                         |
| 26 05 36 00-2085 EA 30" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray..... | 2,242.77                  | 818.18                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -156.09                   |                         |
| 26 05 36 00-2086 EA 36" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray..... | 2,749.72                  | 1,053.53                |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -187.17                   |                         |
| <b>26 05 36 00-2087 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1961)</small>       |                           |                         |
| 26 05 36 00-2088 EA 6" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....  | 1,859.01                  | 526.84                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -142.00                   |                         |
| 26 05 36 00-2089 EA 12" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray..... | 2,072.95                  | 616.98                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -155.88                   |                         |
| 26 05 36 00-2090 EA 18" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray..... | 2,362.52                  | 737.12                  |
| <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>  | -174.82                   |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2091 EA 24" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 2,856.68<br>-208.45       | 926.62                  |
| 26 05 36 00-2092 EA 30" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 3,190.96<br>-230.90       | 1,058.45                |
| 26 05 36 00-2093 EA 36" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i> | 3,701.78<br>-267.90       | 1,227.34                |
| <b>26 05 36 00-2094 Straight Reducers (26 05 36 00-1961)</b>  |                           |                         |
| 26 05 36 00-2095 EA 9" To 6" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                 | 368.29<br>-26.57          | 123.05                  |
| 26 05 36 00-2096 EA 12" To 9" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                | 386.76<br>-27.87          | 129.68                  |
| 26 05 36 00-2097 EA 18" To 12" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 439.67<br>-31.16          | 153.67                  |
| 26 05 36 00-2098 EA 24" To 18" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 488.65<br>-34.24          | 175.51                  |
| 26 05 36 00-2099 EA 30" To 24" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 543.13<br>-37.22          | 205.05                  |
| 26 05 36 00-2100 EA 36" To 30" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 592.74<br>-40.08          | 230.27                  |
| <b>26 05 36 00-2101 Reducers (26 05 36 00-1961)</b>   |                           |                         |
| 26 05 36 00-2102 EA 12" To 6" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                | 386.40<br>-27.86          | 129.37                  |
| 26 05 36 00-2103 EA 18" To 6" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                | 439.50<br>-31.15          | 153.67                  |
| 26 05 36 00-2104 EA 18" To 9" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                | 439.50<br>-31.15          | 153.67                  |
| 26 05 36 00-2105 EA 24" To 6" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                | 488.87<br>-34.25          | 175.67                  |
| 26 05 36 00-2106 EA 24" To 9" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>                | 488.87<br>-34.25          | 175.67                  |
| 26 05 36 00-2107 EA 24" To 12" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 489.31<br>-34.28          | 175.82                  |
| 26 05 36 00-2108 EA 30" To 12" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 547.93<br>-37.72          | 204.89                  |
| 26 05 36 00-2109 EA 30" To 18" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 542.52<br>-37.19          | 204.74                  |
| 26 05 36 00-2110 EA 36" To 12" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 592.74<br>-40.08          | 230.27                  |
| 26 05 36 00-2111 EA 36" To 18" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 592.74<br>-40.08          | 230.27                  |
| 26 05 36 00-2112 EA 36" To 24" Reducer, Vented Bottom, Aluminum Cable Tray.....<br><i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>               | 593.50<br>-40.12          | 230.73                  |
| <b>26 05 36 00-2113 Dropout Or End Plate (26 05 36 00-1961)</b>   |                           |                         |
| 26 05 36 00-2114 EA 6" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....   | 127.98                    | 56.76                   |
| 26 05 36 00-2115 EA 9" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....   | 139.65                    | 61.99                   |
| 26 05 36 00-2116 EA 12" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....  | 150.41                    | 66.61                   |
| 26 05 36 00-2117 EA 18" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....  | 170.06                    | 73.53                   |
| 26 05 36 00-2118 EA 24" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....  | 194.09                    | 81.98                   |
| 26 05 36 00-2119 EA 30" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....  | 214.80                    | 92.14                   |
| 26 05 36 00-2120 EA 36" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....  | 245.91                    | 105.52                  |
| <b>26 05 36 00-2121 Cable Tray Covers And Dividers (26 05 36 00-0001)</b>   |                           |                         |
| <b>26 05 36 00-2122 Galvanized Steel Covers (26 05 36 00-2121)</b>  |                           |                         |
| <b>26 05 36 00-2123 Ventilated Straight Sections (26 05 36 00-2122)</b>   |                           |                         |
| 26 05 36 00-2124 LF 6" Steel Cable Tray Cover, Straight Section .....   | 11.91                     | 2.76                    |
| 26 05 36 00-2125 LF 9" Steel Cable Tray Cover, Straight Section .....   | 14.32                     | 3.23                    |
| 26 05 36 00-2126 LF 12" Steel Cable Tray Cover, Straight Section .....  | 16.80                     | 3.70                    |
| 26 05 36 00-2127 LF 18" Steel Cable Tray Cover, Straight Section .....  | 22.75                     | 4.92                    |
| 26 05 36 00-2128 LF 24" Steel Cable Tray Cover, Straight Section .....  | 28.98                     | 6.61                    |
| 26 05 36 00-2129 LF 30" Steel Cable Tray Cover, Straight Section .....  | 35.19                     | 8.15                    |
| 26 05 36 00-2130 LF 36" Steel Cable Tray Cover, Straight Section .....  | 178.77                    | 92.45                   |
| <b>26 05 36 00-2131 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2122)</b>  |                           |                         |
| 26 05 36 00-2132 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....  | 70.34                     | 9.85                    |
| 26 05 36 00-2133 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....  | 78.82                     | 11.54                   |
| 26 05 36 00-2134 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....   | 85.75                     | 13.69                   |
| 26 05 36 00-2135 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....   | 116.32                    | 17.54                   |
| 26 05 36 00-2136 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....   | 142.71                    | 22.31                   |
| 26 05 36 00-2137 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....   | 171.81                    | 24.76                   |
| 26 05 36 00-2138 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....   | 207.46                    | 29.53                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 05 36 00-2139    90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>     |                           |                         |
| 26 05 36 00-2140 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....              | 107.54                    | 10.92                   |
| 26 05 36 00-2141 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....              | 112.92                    | 12.76                   |
| 26 05 36 00-2142 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 127.71                    | 15.39                   |
| 26 05 36 00-2143 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 158.54                    | 19.53                   |
| 26 05 36 00-2144 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 194.66                    | 24.61                   |
| 26 05 36 00-2145 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 249.02                    | 28.30                   |
| 26 05 36 00-2146 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 289.81                    | 33.53                   |
| <br><b>26 05 36 00-2147    90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small> |                           |                         |
| 26 05 36 00-2148 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....              | 151.07                    | 12.30                   |
| 26 05 36 00-2149 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....              | 168.11                    | 14.15                   |
| 26 05 36 00-2150 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 182.86                    | 17.54                   |
| 26 05 36 00-2151 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 231.32                    | 20.46                   |
| 26 05 36 00-2152 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 281.14                    | 28.46                   |
| 26 05 36 00-2153 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 330.91                    | 32.15                   |
| 26 05 36 00-2154 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 386.95                    | 36.91                   |
| <br><b>26 05 36 00-2155    45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small> |                           |                         |
| 26 05 36 00-2156 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....              | 54.76                     | 9.85                    |
| For 60 Degree Bend, Deduct   | -14.28                    |                         |
| For 30 Degree Bend, Deduct   | -24.35                    |                         |
| 26 05 36 00-2157 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....              | 65.07                     | 11.54                   |
| For 60 Degree Bend, Deduct   | -17.05                    |                         |
| For 30 Degree Bend, Deduct   | -29.06                    |                         |
| 26 05 36 00-2158 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....             | 73.14                     | 13.69                   |
| For 60 Degree Bend, Deduct   | -18.91                    |                         |
| For 30 Degree Bend, Deduct   | -32.28                    |                         |
| 26 05 36 00-2159 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....             | 88.69                     | 16.77                   |
| For 60 Degree Bend, Deduct   | -22.84                    |                         |
| For 30 Degree Bend, Deduct   | -39.00                    |                         |
| 26 05 36 00-2160 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....             | 103.49                    | 19.38                   |
| For 60 Degree Bend, Deduct   | -26.69                    |                         |
| For 30 Degree Bend, Deduct   | -45.57                    |                         |
| 26 05 36 00-2161 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....             | 120.97                    | 22.31                   |
| For 60 Degree Bend, Deduct   | -31.34                    |                         |
| For 30 Degree Bend, Deduct   | -53.48                    |                         |
| 26 05 36 00-2162 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....             | 135.02                    | 24.61                   |
| For 60 Degree Bend, Deduct   | -35.12                    |                         |
| For 30 Degree Bend, Deduct   | -59.90                    |                         |
| <br><b>26 05 36 00-2163    45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small> |                           |                         |
| 26 05 36 00-2164 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....              | 74.31                     | 10.92                   |
| For 60 Degree Bend, Deduct   | -20.35                    |                         |
| For 30 Degree Bend, Deduct   | -34.52                    |                         |
| 26 05 36 00-2165 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....              | 84.27                     | 12.76                   |
| For 60 Degree Bend, Deduct   | -22.93                    |                         |
| For 30 Degree Bend, Deduct   | -38.92                    |                         |
| 26 05 36 00-2166 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 96.76                     | 15.39                   |
| For 60 Degree Bend, Deduct   | -26.02                    |                         |
| For 30 Degree Bend, Deduct   | -44.22                    |                         |
| 26 05 36 00-2167 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 112.19                    | 18.46                   |
| For 60 Degree Bend, Deduct   | -29.94                    |                         |
| For 30 Degree Bend, Deduct   | -50.92                    |                         |
| 26 05 36 00-2168 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 129.21                    | 21.08                   |
| For 60 Degree Bend, Deduct   | -34.54                    |                         |
| For 30 Degree Bend, Deduct   | -58.74                    |                         |
| 26 05 36 00-2169 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 160.32                    | 24.61                   |
| For 60 Degree Bend, Deduct   | -43.45                    |                         |
| For 30 Degree Bend, Deduct   | -73.78                    |                         |
| 26 05 36 00-2170 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover .....             | 178.03                    | 28.46                   |
| For 60 Degree Bend, Deduct   | -47.85                    |                         |
| For 30 Degree Bend, Deduct   | -81.34                    |                         |
| <br><b>26 05 36 00-2171    45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small> |                           |                         |
| 26 05 36 00-2172 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....              | 101.83                    | 12.30                   |
| For 60 Degree Bend, Deduct   | -28.90                    |                         |
| For 30 Degree Bend, Deduct   | -48.85                    |                         |
| 26 05 36 00-2173 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....              | 115.38                    | 14.15                   |
| For 60 Degree Bend, Deduct   | -32.63                    |                         |
| For 30 Degree Bend, Deduct   | -55.17                    |                         |
| 26 05 36 00-2174 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 130.05                    | 17.54                   |
| For 60 Degree Bend, Deduct   | -36.20                    |                         |
| For 30 Degree Bend, Deduct   | -61.31                    |                         |
| 26 05 36 00-2175 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover .....             | 148.25                    | 19.53                   |
| For 60 Degree Bend, Deduct   | -41.45                    |                         |
| For 30 Degree Bend, Deduct   | -70.17                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2176 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover..... | 180.72                    | 23.84                   |
| For 60 Degree Bend, Deduct  | -50.50                    |                         |
| For 30 Degree Bend, Deduct  | -85.49                    |                         |
| 26 05 36 00-2177 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover..... | 200.96                    | 28.46                   |
| For 60 Degree Bend, Deduct  | -55.42                    |                         |
| For 30 Degree Bend, Deduct  | -93.95                    |                         |
| 26 05 36 00-2178 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover..... | 236.99                    | 30.76                   |
| For 60 Degree Bend, Deduct  | -66.41                    |                         |
| For 30 Degree Bend, Deduct  | -112.39                   |                         |
| <b>26 05 36 00-2179 90 Degree, 12" Radius Vertical Risers (26 05 36 00-2122)</b>            |                           |                         |
| 26 05 36 00-2180 EA 6" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....   | 61.36                     | 9.85                    |
| 26 05 36 00-2181 EA 9" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....   | 65.07                     | 11.54                   |
| 26 05 36 00-2182 EA 12" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....  | 72.00                     | 13.69                   |
| 26 05 36 00-2183 EA 18" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....  | 84.14                     | 16.77                   |
| 26 05 36 00-2184 EA 24" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....  | 93.49                     | 21.69                   |
| 26 05 36 00-2185 EA 30" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....  | 104.19                    | 24.76                   |
| 26 05 36 00-2186 EA 36" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....  | 130.55                    | 29.53                   |
| <b>26 05 36 00-2187 90 Degree, 24" Radius Vertical Risers (26 05 36 00-2122)</b>            |                           |                         |
| 26 05 36 00-2188 EA 6" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....   | 73.16                     | 10.92                   |
| 26 05 36 00-2189 EA 9" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....   | 81.98                     | 12.76                   |
| 26 05 36 00-2190 EA 12" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....  | 88.74                     | 15.39                   |
| 26 05 36 00-2191 EA 18" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....  | 114.43                    | 18.46                   |
| 26 05 36 00-2192 EA 24" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....  | 133.68                    | 23.84                   |
| 26 05 36 00-2193 EA 30" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....  | 153.92                    | 28.46                   |
| 26 05 36 00-2194 EA 36" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....  | 177.49                    | 33.53                   |
| <b>26 05 36 00-2195 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2122)</b>            |                           |                         |
| 26 05 36 00-2196 EA 6" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....   | 84.60                     | 12.30                   |
| 26 05 36 00-2197 EA 9" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....   | 105.07                    | 14.15                   |
| 26 05 36 00-2198 EA 12" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....  | 120.96                    | 17.54                   |
| 26 05 36 00-2199 EA 18" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....  | 148.25                    | 19.53                   |
| 26 05 36 00-2200 EA 24" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....  | 173.85                    | 27.23                   |
| 26 05 36 00-2201 EA 30" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....  | 207.12                    | 32.15                   |
| 26 05 36 00-2202 EA 36" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....  | 242.53                    | 36.91                   |
| <b>26 05 36 00-2203 12" Radius Horizontal Tees (26 05 36 00-2122)</b>                       |                           |                         |
| 26 05 36 00-2204 EA 6" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....             | 108.15                    | 16.00                   |
| 26 05 36 00-2205 EA 9" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....             | 114.43                    | 18.46                   |
| 26 05 36 00-2206 EA 12" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....            | 130.06                    | 21.69                   |
| 26 05 36 00-2207 EA 18" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....            | 155.74                    | 24.61                   |
| 26 05 36 00-2208 EA 24" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....            | 191.79                    | 28.46                   |
| 26 05 36 00-2209 EA 30" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....            | 237.88                    | 40.92                   |
| 26 05 36 00-2210 EA 36" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....            | 285.87                    | 49.07                   |
| <b>26 05 36 00-2211 24" Radius Horizontal Tees (26 05 36 00-2122)</b>                       |                           |                         |
| 26 05 36 00-2212 EA 6" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....             | 156.34                    | 16.77                   |
| 26 05 36 00-2213 EA 9" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....             | 179.19                    | 19.53                   |
| 26 05 36 00-2214 EA 12" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....            | 189.72                    | 23.07                   |
| 26 05 36 00-2215 EA 18" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....            | 238.84                    | 26.46                   |
| 26 05 36 00-2216 EA 24" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....            | 349.16                    | 30.76                   |
| 26 05 36 00-2217 EA 30" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....            | 416.24                    | 46.15                   |
| 26 05 36 00-2218 EA 36" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....            | 468.26                    | 56.76                   |
| <b>26 05 36 00-2219 36" Radius Horizontal Tees (26 05 36 00-2122)</b>                       |                           |                         |
| 26 05 36 00-2220 EA 6" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....             | 260.75                    | 17.54                   |
| 26 05 36 00-2221 EA 9" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....             | 270.26                    | 20.46                   |
| 26 05 36 00-2222 EA 12" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....            | 302.40                    | 24.61                   |
| 26 05 36 00-2223 EA 18" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....            | 354.63                    | 28.46                   |
| 26 05 36 00-2224 EA 24" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....            | 459.45                    | 33.53                   |
| 26 05 36 00-2225 EA 30" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....            | 525.96                    | 52.91                   |
| 26 05 36 00-2226 EA 36" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....            | 608.97                    | 66.92                   |
| <b>26 05 36 00-2227 12" Radius Horizontal Crosses (26 05 36 00-2122)</b>                    |                           |                         |
| 26 05 36 00-2228 EA 6" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....           | 157.65                    | 21.69                   |
| 26 05 36 00-2229 EA 9" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....           | 166.83                    | 23.07                   |
| 26 05 36 00-2230 EA 12" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....          | 184.39                    | 24.61                   |
| 26 05 36 00-2231 EA 18" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....          | 217.01                    | 28.46                   |
| 26 05 36 00-2232 EA 24" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....          | 274.49                    | 40.92                   |
| 26 05 36 00-2233 EA 30" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....          | 317.88                    | 49.07                   |
| 26 05 36 00-2234 EA 36" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....          | 362.91                    | 52.76                   |



|   |    |  | MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|----|--|--|---------------------------|-------------------------|
| <b>26 05 36 00-2235     24" Radius Horizontal Crosses</b> <small>(26 05 36 00-2122)</small>           |    |  |  |                           |                         |
|   | EA |  | 6" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....              | 270.03                    | 23.07                   |
|   | EA |  | 9" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....              | 293.23                    | 24.61                   |
|   | EA |  | 12" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....             | 314.49                    | 26.46                   |
|   | EA |  | 18" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....             | 374.37                    | 30.76                   |
|   | EA |  | 24" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....             | 471.20                    | 46.15                   |
|   | EA |  | 30" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....             | 539.20                    | 56.76                   |
|   | EA |  | 36" Horizontal Cross, 24" Radius, Steel Cable Tray Cover .....             | 602.07                    | 61.38                   |
| <b>26 05 36 00-2243     36" Radius Horizontal Crosses</b> <small>(26 05 36 00-2122)</small>           |    |  |  |                           |                         |
|   | EA |  | 6" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....              | 428.48                    | 24.61                   |
|   | EA |  | 9" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....              | 445.16                    | 26.46                   |
|   | EA |  | 12" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....             | 469.25                    | 28.46                   |
|   | EA |  | 18" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....             | 541.97                    | 33.53                   |
|   | EA |  | 24" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....             | 707.00                    | 52.76                   |
|   | EA |  | 30" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....             | 776.81                    | 67.22                   |
|   | EA |  | 36" Horizontal Cross, 36" Radius, Steel Cable Tray Cover .....             | 833.68                    | 73.84                   |
| <b>26 05 36 00-2251     Reducers</b> <small>(26 05 36 00-2122)</small>                                |    |  |  |                           |                         |
|   | EA |  | 9" To 6" Reducer, Steel Cable Tray Covers.....                             | 70.82                     | 11.54                   |
|   | EA |  | 12" To 6" Reducer, Steel Cable Tray Covers.....                            | 76.64                     | 13.69                   |
|   | EA |  | 12" To 9" Reducer, Steel Cable Tray Covers.....                            | 76.64                     | 13.69                   |
|   | EA |  | 18" To 6" Reducer, Steel Cable Tray Covers.....                            | 85.28                     | 16.77                   |
|   | EA |  | 18" To 12" Reducer, Steel Cable Tray Covers.....                           | 85.28                     | 16.77                   |
|   | EA |  | 24" To 12" Reducer, Steel Cable Tray Covers.....                           | 104.12                    | 18.46                   |
|   | EA |  | 24" To 18" Reducer, Steel Cable Tray Covers.....                           | 110.99                    | 18.46                   |
|   | EA |  | 30" To 12" Reducer, Steel Cable Tray Covers.....                           | 108.55                    | 21.08                   |
|   | EA |  | 30" To 18" Reducer, Steel Cable Tray Covers.....                           | 115.42                    | 21.08                   |
|   | EA |  | 30" To 24" Reducer, Steel Cable Tray Covers.....                           | 120.01                    | 21.08                   |
|   | EA |  | 36" To 12" Reducer, Steel Cable Tray Covers.....                           | 125.49                    | 23.07                   |
|   | EA |  | 36" To 18" Reducer, Steel Cable Tray Covers.....                           | 127.78                    | 23.07                   |
|   | EA |  | 36" To 24" Reducer, Steel Cable Tray Covers.....                           | 130.07                    | 23.07                   |
|   | EA |  | 36" To 30" Reducer, Steel Cable Tray Covers.....                           | 131.22                    | 23.07                   |
| <b>26 05 36 00-2266     Aluminum Covers</b> <small>(26 05 36 00-2121)</small>                         |    |  |  |                           |                         |
| <b>26 05 36 00-2267     Ventilated Straight Sections</b> <small>(26 05 36 00-2266)</small>            |    |  |  |                           |                         |
|   | LF |  | 6" Aluminum Cable Tray Cover, Straight Section .....                       | 12.30                     | 2.76                    |
|   | LF |  | 9" Aluminum Cable Tray Cover, Straight Section .....                       | 14.61                     | 3.23                    |
|   | LF |  | 12" Aluminum Cable Tray Cover, Straight Section .....                      | 17.12                     | 3.70                    |
|   | LF |  | 18" Aluminum Cable Tray Cover, Straight Section .....                      | 22.78                     | 4.92                    |
|   | LF |  | 24" Aluminum Cable Tray Cover, Straight Section .....                      | 29.43                     | 6.61                    |
|   | LF |  | 30" Aluminum Cable Tray Cover, Straight Section .....                      | 33.72                     | 8.15                    |
|   | LF |  | 36" Aluminum Cable Tray Cover, Straight Section .....                      | 175.46                    | 92.45                   |
| <b>26 05 36 00-2275     90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small> |    |  |  |                           |                         |
|   | EA |  | 6" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....  | 66.22                     | 9.85                    |
|   | EA |  | 9" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....  | 71.13                     | 11.54                   |
|   | EA |  | 12" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover..... | 78.95                     | 13.69                   |
|   | EA |  | 18" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover..... | 102.75                    | 17.54                   |
|   | EA |  | 24" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover..... | 130.27                    | 22.31                   |
|   | EA |  | 30" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover..... | 152.54                    | 24.76                   |
|   | EA |  | 36" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover..... | 185.56                    | 29.53                   |
| <b>26 05 36 00-2283     90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small> |    |  |  |                           |                         |
|   | EA |  | 6" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....  | 86.27                     | 10.92                   |
|   | EA |  | 9" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....  | 105.59                    | 12.76                   |
|   | EA |  | 12" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover..... | 118.71                    | 15.39                   |
|   | EA |  | 18" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover..... | 142.77                    | 19.53                   |
|   | EA |  | 24" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover..... | 177.34                    | 24.61                   |
|   | EA |  | 30" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover..... | 213.84                    | 28.30                   |
|   | EA |  | 36" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover..... | 261.47                    | 33.53                   |
| <b>26 05 36 00-2291     90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small> |    |  |  |                           |                         |
|   | EA |  | 6" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....  | 137.21                    | 12.30                   |
|   | EA |  | 9" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....  | 151.31                    | 14.15                   |
|   | EA |  | 12" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover..... | 174.19                    | 17.54                   |
|   | EA |  | 18" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover..... | 207.22                    | 20.46                   |
|   | EA |  | 24" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover..... | 257.13                    | 28.46                   |
|   | EA |  | 30" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover..... | 295.79                    | 32.15                   |
|   | EA |  | 36" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover..... | 344.78                    | 36.91                   |

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 36 Cable Trays for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 36 00-2299 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small> |                           |                         |
| 26 05 36 00-2300 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....     | 53.25                     | 9.85                    |
| <i>For 60 Degree Bend, Deduct</i>   | -13.78                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -23.52                    |                         |
| 26 05 36 00-2301 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....     | 57.07                     | 11.54                   |
| <i>For 60 Degree Bend, Deduct</i>   | -14.41                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -24.66                    |                         |
| 26 05 36 00-2302 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....    | 65.10                     | 13.69                   |
| <i>For 60 Degree Bend, Deduct</i>   | -16.26                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -27.86                    |                         |
| 26 05 36 00-2303 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....    | 76.61                     | 16.77                   |
| <i>For 60 Degree Bend, Deduct</i>   | -18.86                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -32.36                    |                         |
| 26 05 36 00-2304 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....    | 86.50                     | 19.38                   |
| <i>For 60 Degree Bend, Deduct</i>   | -21.09                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -36.22                    |                         |
| 26 05 36 00-2305 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....    | 105.43                    | 22.31                   |
| <i>For 60 Degree Bend, Deduct</i>   | -26.21                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -44.93                    |                         |
| 26 05 36 00-2306 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....    | 123.22                    | 24.61                   |
| <i>For 60 Degree Bend, Deduct</i>   | -31.23                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -53.41                    |                         |
| <b>26 05 36 00-2307 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small> |                           |                         |
| 26 05 36 00-2308 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....     | 60.87                     | 10.92                   |
| <i>For 60 Degree Bend, Deduct</i>   | -15.91                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -27.13                    |                         |
| 26 05 36 00-2309 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....     | 75.30                     | 12.76                   |
| <i>For 60 Degree Bend, Deduct</i>   | -19.97                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -33.98                    |                         |
| 26 05 36 00-2310 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....    | 81.94                     | 15.39                   |
| <i>For 60 Degree Bend, Deduct</i>   | -21.13                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -36.07                    |                         |
| 26 05 36 00-2311 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....    | 98.94                     | 18.46                   |
| <i>For 60 Degree Bend, Deduct</i>   | -25.56                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -43.63                    |                         |
| 26 05 36 00-2312 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....    | 119.58                    | 21.08                   |
| <i>For 60 Degree Bend, Deduct</i>   | -31.36                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -53.44                    |                         |
| 26 05 36 00-2313 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....    | 138.45                    | 24.61                   |
| <i>For 60 Degree Bend, Deduct</i>   | -36.23                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -61.76                    |                         |
| 26 05 36 00-2314 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....    | 159.85                    | 28.46                   |
| <i>For 60 Degree Bend, Deduct</i>   | -41.86                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -71.34                    |                         |
| <b>26 05 36 00-2315 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small> |                           |                         |
| 26 05 36 00-2316 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....     | 93.99                     | 12.30                   |
| <i>For 60 Degree Bend, Deduct</i>   | -26.31                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -44.54                    |                         |
| 26 05 36 00-2317 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....     | 103.72                    | 14.15                   |
| <i>For 60 Degree Bend, Deduct</i>   | -28.78                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -48.75                    |                         |
| 26 05 36 00-2318 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....    | 113.55                    | 17.54                   |
| <i>For 60 Degree Bend, Deduct</i>   | -30.76                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -52.24                    |                         |
| 26 05 36 00-2319 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....    | 134.15                    | 19.53                   |
| <i>For 60 Degree Bend, Deduct</i>   | -36.80                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -62.41                    |                         |
| 26 05 36 00-2320 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....    | 163.03                    | 23.84                   |
| <i>For 60 Degree Bend, Deduct</i>   | -44.66                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -75.76                    |                         |
| 26 05 36 00-2321 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....    | 187.96                    | 28.46                   |
| <i>For 60 Degree Bend, Deduct</i>   | -51.13                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -86.80                    |                         |
| 26 05 36 00-2322 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....    | 211.37                    | 30.76                   |
| <i>For 60 Degree Bend, Deduct</i>   | -57.95                    |                         |
| <i>For 30 Degree Bend, Deduct</i>   | -98.30                    |                         |
| <b>26 05 36 00-2323 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-2266)</small>   |                           |                         |
| 26 05 36 00-2324 EA 6" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....       | 58.82                     | 9.85                    |
| 26 05 36 00-2325 EA 9" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....       | 61.94                     | 11.54                   |
| 26 05 36 00-2326 EA 12" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....      | 69.21                     | 13.69                   |
| 26 05 36 00-2327 EA 18" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....      | 82.05                     | 16.77                   |
| 26 05 36 00-2328 EA 24" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....      | 92.42                     | 21.69                   |
| 26 05 36 00-2329 EA 30" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....      | 98.47                     | 24.76                   |
| 26 05 36 00-2330 EA 36" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....      | 118.39                    | 29.53                   |
| <b>26 05 36 00-2331 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-2266)</small>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2332 EA 6" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....  | 66.81                     | 10.92                   |
| 26 05 36 00-2333 EA 9" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....  | 74.22                     | 12.76                   |
| 26 05 36 00-2334 EA 12" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover ..... | 83.02                     | 15.39                   |
| 26 05 36 00-2335 EA 18" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover ..... | 99.98                     | 18.46                   |
| 26 05 36 00-2336 EA 24" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover ..... | 115.39                    | 23.84                   |
| 26 05 36 00-2337 EA 30" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover ..... | 144.65                    | 28.46                   |
| 26 05 36 00-2338 EA 36" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover ..... | 161.98                    | 33.53                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2339</b> 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2266)              |                           |                         |
| 26 05 36 00-2340 EA 6" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....  | 76.65                     | 12.30                   |
| 26 05 36 00-2341 EA 9" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....  | 92.91                     | 14.15                   |
| 26 05 36 00-2342 EA 12" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover ..... | 109.30                    | 17.54                   |
| 26 05 36 00-2343 EA 18" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover ..... | 129.82                    | 19.53                   |
| 26 05 36 00-2344 EA 24" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover ..... | 160.12                    | 27.23                   |
| 26 05 36 00-2345 EA 30" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover ..... | 198.45                    | 32.15                   |
| 26 05 36 00-2346 EA 36" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover ..... | 217.17                    | 36.91                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2347</b> 12" Radius Horizontal Tees (26 05 36 00-2266)                         |                           |                         |
| 26 05 36 00-2348 EA 6" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....            | 95.99                     | 16.00                   |
| 26 05 36 00-2349 EA 9" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....            | 104.30                    | 18.46                   |
| 26 05 36 00-2350 EA 12" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....           | 118.26                    | 21.69                   |
| 26 05 36 00-2351 EA 18" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....           | 138.45                    | 24.61                   |
| 26 05 36 00-2352 EA 24" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....           | 170.66                    | 28.46                   |
| 26 05 36 00-2353 EA 30" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....           | 213.16                    | 40.92                   |
| 26 05 36 00-2354 EA 36" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....           | 257.05                    | 49.07                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2355</b> 24" Radius Horizontal Tees (26 05 36 00-2266)                         |                           |                         |
| 26 05 36 00-2356 EA 6" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....            | 140.45                    | 16.77                   |
| 26 05 36 00-2357 EA 9" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....            | 157.93                    | 19.53                   |
| 26 05 36 00-2358 EA 12" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....           | 179.01                    | 23.07                   |
| 26 05 36 00-2359 EA 18" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....           | 208.38                    | 26.46                   |
| 26 05 36 00-2360 EA 24" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....           | 312.87                    | 30.76                   |
| 26 05 36 00-2361 EA 30" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....           | 366.81                    | 46.15                   |
| 26 05 36 00-2362 EA 36" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....           | 416.89                    | 56.76                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2363</b> 36" Radius Horizontal Tees (26 05 36 00-2266)                         |                           |                         |
| 26 05 36 00-2364 EA 6" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....            | 234.70                    | 17.54                   |
| 26 05 36 00-2365 EA 9" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....            | 243.96                    | 20.46                   |
| 26 05 36 00-2366 EA 12" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....           | 272.51                    | 24.61                   |
| 26 05 36 00-2367 EA 18" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....           | 309.17                    | 28.46                   |
| 26 05 36 00-2368 EA 24" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....           | 389.09                    | 33.53                   |
| 26 05 36 00-2369 EA 30" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....           | 462.32                    | 52.91                   |
| 26 05 36 00-2370 EA 36" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....           | 533.31                    | 66.92                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2371</b> 12" Radius Horizontal Crosses (26 05 36 00-2266)                      |                           |                         |
| 26 05 36 00-2372 EA 6" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....          | 142.14                    | 21.69                   |
| 26 05 36 00-2373 EA 9" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....          | 150.94                    | 23.07                   |
| 26 05 36 00-2374 EA 12" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....         | 166.57                    | 24.61                   |
| 26 05 36 00-2375 EA 18" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....         | 198.78                    | 28.46                   |
| 26 05 36 00-2376 EA 24" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....         | 243.38                    | 40.92                   |
| 26 05 36 00-2377 EA 30" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....         | 289.42                    | 49.07                   |
| 26 05 36 00-2378 EA 36" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....         | 327.92                    | 52.76                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2379</b> 24" Radius Horizontal Crosses (26 05 36 00-2266)                      |                           |                         |
| 26 05 36 00-2380 EA 6" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....          | 246.15                    | 23.07                   |
| 26 05 36 00-2381 EA 9" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....          | 263.86                    | 24.61                   |
| 26 05 36 00-2382 EA 12" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....         | 284.08                    | 26.46                   |
| 26 05 36 00-2383 EA 18" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....         | 330.18                    | 30.76                   |
| 26 05 36 00-2384 EA 24" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....         | 410.01                    | 46.15                   |
| 26 05 36 00-2385 EA 30" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....         | 483.82                    | 56.76                   |
| 26 05 36 00-2386 EA 36" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....         | 524.11                    | 61.38                   |
| <br>  |                           |                         |
| <b>26 05 36 00-2387</b> 36" Radius Horizontal Crosses (26 05 36 00-2266)                      |                           |                         |
| 26 05 36 00-2388 EA 6" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....          | 374.17                    | 24.61                   |
| 26 05 36 00-2389 EA 9" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....          | 392.24                    | 26.46                   |
| 26 05 36 00-2390 EA 12" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....         | 421.65                    | 28.46                   |
| 26 05 36 00-2391 EA 18" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....         | 466.96                    | 33.53                   |
| 26 05 36 00-2392 EA 24" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....         | 596.36                    | 52.76                   |
| 26 05 36 00-2393 EA 30" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....         | 696.03                    | 67.22                   |
| 26 05 36 00-2394 EA 36" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....         | 761.13                    | 73.84                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| <b>26 05 36 00-2395</b> |     |     | <b>Reducers</b> <small>(26 05 36 00-2266)</small>                        |                        |                      |
|                         | EA  |     | 9" To 6" Reducer, Aluminum Cable Tray Covers .....                       | 72.23                  | 11.54                |
|                         | EA  |     | 12" To 6" Reducer, Aluminum Cable Tray Covers .....                      | 77.93                  | 13.69                |
|                         | EA  |     | 12" To 9" Reducer, Aluminum Cable Tray Covers .....                      | 77.93                  | 13.69                |
|                         | EA  |     | 18" To 6" Reducer, Aluminum Cable Tray Covers .....                      | 88.52                  | 16.77                |
|                         | EA  |     | 18" To 12" Reducer, Aluminum Cable Tray Covers .....                     | 88.52                  | 16.77                |
|                         | EA  |     | 24" To 12" Reducer, Aluminum Cable Tray Covers .....                     | 97.81                  | 18.46                |
|                         | EA  |     | 24" To 18" Reducer, Aluminum Cable Tray Covers .....                     | 106.41                 | 18.46                |
|                         | EA  |     | 30" To 12" Reducer, Aluminum Cable Tray Covers .....                     | 113.06                 | 21.08                |
|                         | EA  |     | 30" To 18" Reducer, Aluminum Cable Tray Covers .....                     | 116.26                 | 21.08                |
|                         | EA  |     | 30" To 24" Reducer, Aluminum Cable Tray Covers .....                     | 118.50                 | 21.08                |
|                         | EA  |     | 36" To 12" Reducer, Aluminum Cable Tray Covers .....                     | 124.90                 | 23.07                |
|                         | EA  |     | 36" To 18" Reducer, Aluminum Cable Tray Covers .....                     | 127.06                 | 23.07                |
|                         | EA  |     | 36" To 24" Reducer, Aluminum Cable Tray Covers .....                     | 128.14                 | 23.07                |
|                         | EA  |     | 36" To 30" Reducer, Aluminum Cable Tray Covers .....                     | 129.23                 | 23.07                |
| <b>26 05 36 00-2410</b> |     |     | <b>Galvanized Steel Dividers</b> <small>(26 05 36 00-2121)</small>       |                        |                      |
| <b>26 05 36 00-2411</b> |     |     | <b>Straight Dividers</b> <small>(26 05 36 00-2410)</small>               |                        |                      |
|                         | LF  |     | 3" Deep Galvanized Steel Divider Strip, Straight .....                   | 12.45                  | 3.70                 |
|                         | LF  |     | 4" Deep Galvanized Steel Divider Strip, Straight .....                   | 14.57                  | 4.00                 |
|                         | LF  |     | 6" Deep Galvanized Steel Divider Strip, Straight .....                   | 17.89                  | 4.62                 |
| <b>26 05 36 00-2415</b> |     |     | <b>3" Deep Vertical Dividers</b> <small>(26 05 36 00-2410)</small>       |                        |                      |
|                         | EA  |     | Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Steel Cable Tray ..... | 74.95                  | 26.46                |
|                         | EA  |     | Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Steel Cable Tray ..... | 84.39                  | 27.38                |
|                         | EA  |     | Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Steel Cable Tray ..... | 88.63                  | 28.46                |
|                         | EA  |     | Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Steel Cable Tray ..... | 100.80                 | 29.53                |
|                         | EA  |     | Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Steel Cable Tray ..... | 96.21                  | 29.53                |
|                         | EA  |     | Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Steel Cable Tray ..... | 103.94                 | 30.76                |
|                         | EA  |     | Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Steel Cable Tray ..... | 120.01                 | 32.15                |
|                         | EA  |     | Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Steel Cable Tray ..... | 146.54                 | 33.53                |
|                         | EA  |     | Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Steel Cable .....      | 119.03                 | 33.53                |
|                         | EA  |     | Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Steel Cable Tray ..... | 131.96                 | 35.22                |
|                         | EA  |     | Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Steel Cable Tray ..... | 147.49                 | 36.91                |
|                         | EA  |     | Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Steel Cable Tray ..... | 183.96                 | 38.92                |
| <b>26 05 36 00-2428</b> |     |     | <b>4" Deep Vertical Dividers</b> <small>(26 05 36 00-2410)</small>       |                        |                      |
|                         | EA  |     | Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Steel Cable Tray ..... | 84.96                  | 27.38                |
|                         | EA  |     | Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Steel Cable Tray ..... | 93.22                  | 28.46                |
|                         | EA  |     | Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Steel Cable Tray ..... | 100.80                 | 29.53                |
|                         | EA  |     | Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Steel Cable Tray ..... | 114.26                 | 30.76                |
|                         | EA  |     | Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Steel Cable Tray ..... | 114.26                 | 30.76                |
|                         | EA  |     | Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Steel Cable Tray ..... | 132.62                 | 32.15                |
|                         | EA  |     | Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Steel Cable Tray ..... | 145.39                 | 33.53                |
|                         | EA  |     | Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Steel Cable Tray ..... | 177.80                 | 35.22                |
|                         | EA  |     | Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Steel Cable Tray ..... | 126.89                 | 32.15                |
|                         | EA  |     | Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Steel Cable Tray ..... | 139.66                 | 33.53                |
|                         | EA  |     | Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Steel Cable Tray ..... | 164.05                 | 35.22                |
|                         | EA  |     | Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Steel Cable Tray ..... | 204.80                 | 36.91                |
| <b>26 05 36 00-2441</b> |     |     | <b>6" Deep Vertical Dividers</b> <small>(26 05 36 00-2410)</small>       |                        |                      |
|                         | EA  |     | Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Steel Cable Tray ..... | 94.20                  | 30.76                |
|                         | EA  |     | Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Steel Cable Tray ..... | 101.67                 | 32.15                |
|                         | EA  |     | Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Steel Cable Tray ..... | 111.01                 | 33.53                |
|                         | EA  |     | Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Steel Cable Tray ..... | 127.37                 | 35.22                |
|                         | EA  |     | Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Steel Cable Tray ..... | 116.57                 | 32.15                |
|                         | EA  |     | Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Steel Cable Tray ..... | 135.08                 | 33.53                |
|                         | EA  |     | Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Steel Cable Tray ..... | 149.15                 | 35.22                |
|                         | EA  |     | Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Steel Cable Tray ..... | 180.73                 | 36.91                |
|                         | EA  |     | Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Steel Cable Tray ..... | 129.35                 | 33.53                |
|                         | EA  |     | Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Steel Cable Tray ..... | 149.15                 | 35.22                |
|                         | EA  |     | Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Steel Cable Tray ..... | 180.73                 | 36.91                |
|                         | EA  |     | Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Steel Cable Tray ..... | 218.35                 | 38.92                |
| <b>26 05 36 00-2454</b> |     |     | <b>Horizontal Dividers</b> <small>(26 05 36 00-2410)</small>             |                        |                      |
|                         | EA  |     | 3" Deep Horizontal Fitting Divider Strip, Steel Cable Tray .....         | 81.35                  | 22.31                |
|                         | EA  |     | 4" Deep Horizontal Fitting Divider Strip, Steel Cable Tray .....         | 90.36                  | 24.61                |
|                         | EA  |     | 6" Deep Horizontal Fitting Divider Strip, Steel Cable Tray .....         | 108.57                 | 27.38                |
| <b>26 05 36 00-2458</b> |     |     | <b>Aluminum Dividers</b> <small>(26 05 36 00-2121)</small>               |                        |                      |
| <b>26 05 36 00-2459</b> |     |     | <b>Straight Dividers</b> <small>(26 05 36 00-2458)</small>               |                        |                      |
|                         | LF  |     | 3" Deep Aluminum Divider Strip, Straight .....                           | 11.80                  | 3.54                 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2461 LF 4" Deep Aluminum Divider Strip, Straight .....                              | 13.81                     | 3.85                    |
| 26 05 36 00-2462 LF 6" Deep Aluminum Divider Strip, Straight .....                              | 16.86                     | 4.31                    |
| <b>26 05 36 00-2463 3" Deep Vertical Dividers (26 05 36 00-2458)</b>                            |                           |                         |
| 26 05 36 00-2464 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray ..... | 66.15                     | 25.53                   |
| 26 05 36 00-2465 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray ..... | 71.94                     | 26.46                   |
| 26 05 36 00-2466 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray ..... | 78.23                     | 27.38                   |
| 26 05 36 00-2467 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray ..... | 88.77                     | 28.46                   |
| 26 05 36 00-2468 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray ..... | 86.70                     | 28.46                   |
| 26 05 36 00-2469 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray ..... | 94.76                     | 29.53                   |
| 26 05 36 00-2470 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray ..... | 108.14                    | 30.76                   |
| 26 05 36 00-2471 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray ..... | 131.15                    | 32.15                   |
| 26 05 36 00-2472 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray ..... | 113.56                    | 32.15                   |
| 26 05 36 00-2473 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray ..... | 133.61                    | 33.53                   |
| 26 05 36 00-2474 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray ..... | 158.99                    | 35.22                   |
| 26 05 36 00-2475 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray ..... | 192.96                    | 36.91                   |
| <b>26 05 36 00-2476 4" Deep Vertical Dividers (26 05 36 00-2458)</b>                            |                           |                         |
| 26 05 36 00-2477 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray ..... | 77.43                     | 26.46                   |
| 26 05 36 00-2478 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray ..... | 84.34                     | 27.38                   |
| 26 05 36 00-2479 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray ..... | 91.87                     | 28.46                   |
| 26 05 36 00-2480 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray ..... | 102.00                    | 29.53                   |
| 26 05 36 00-2481 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray ..... | 100.97                    | 29.53                   |
| 26 05 36 00-2482 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray ..... | 115.38                    | 30.76                   |
| 26 05 36 00-2483 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray ..... | 129.08                    | 32.15                   |
| 26 05 36 00-2484 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray ..... | 159.48                    | 33.53                   |
| 26 05 36 00-2485 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray ..... | 131.94                    | 30.76                   |
| 26 05 36 00-2486 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray ..... | 157.02                    | 32.15                   |
| 26 05 36 00-2487 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray ..... | 182.25                    | 33.53                   |
| 26 05 36 00-2488 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray ..... | 217.98                    | 35.22                   |
| <b>26 05 36 00-2489 6" Deep Vertical Dividers (26 05 36 00-2458)</b>                            |                           |                         |
| 26 05 36 00-2490 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray ..... | 85.86                     | 29.53                   |
| 26 05 36 00-2491 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray ..... | 94.69                     | 30.76                   |
| 26 05 36 00-2492 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray ..... | 99.07                     | 32.15                   |
| 26 05 36 00-2493 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray ..... | 109.81                    | 33.53                   |
| 26 05 36 00-2494 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray ..... | 105.04                    | 30.76                   |
| 26 05 36 00-2495 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray ..... | 127.01                    | 32.15                   |
| 26 05 36 00-2496 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray ..... | 136.71                    | 33.53                   |
| 26 05 36 00-2497 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray ..... | 168.30                    | 35.22                   |
| 26 05 36 00-2498 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray ..... | 135.29                    | 32.15                   |
| 26 05 36 00-2499 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray ..... | 165.69                    | 33.53                   |
| 26 05 36 00-2500 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray ..... | 187.96                    | 35.22                   |
| 26 05 36 00-2501 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray ..... | 216.77                    | 36.91                   |
| <b>26 05 36 00-2502 Horizontal Dividers (26 05 36 00-2458)</b>                                  |                           |                         |
| 26 05 36 00-2503 EA 3" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray .....         | 72.89                     | 21.08                   |
| 26 05 36 00-2504 EA 4" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray .....         | 79.86                     | 23.07                   |
| 26 05 36 00-2505 EA 6" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray .....         | 97.30                     | 25.53                   |
| <b>26 05 36 00-2506 Cable Tray Wall Brackets (26 05 36 00-0001)</b>                             |                           |                         |
| <b>26 05 36 00-2507 Wall Brackets (26 05 36 00-2506)</b>  |                           |                         |
| 26 05 36 00-2508 EA 6" Wide Cable Tray Wall Bracket .....                                       | 97.41                     | 30.76                   |
| 26 05 36 00-2509 EA 9" Wide Cable Tray Wall Bracket .....                                       | 101.04                    | 32.15                   |
| 26 05 36 00-2510 EA 12" Wide Cable Tray Wall Bracket .....                                      | 110.10                    | 33.53                   |
| 26 05 36 00-2511 EA 18" Wide Cable Tray Wall Bracket .....                                      | 116.67                    | 35.22                   |
| 26 05 36 00-2512 EA 24" Wide Cable Tray Wall Bracket .....                                      | 126.20                    | 36.91                   |
| 26 05 36 00-2513 EA 30" Wide Cable Tray Wall Bracket .....                                      | 147.89                    | 38.92                   |
| 26 05 36 00-2514 EA 36" Wide Cable Tray Wall Bracket .....                                      | 174.79                    | 41.53                   |
| <b>26 05 36 00-2515 Fiberglass Cable Tray (26 05 36 00-0001)</b>                                |                           |                         |
| <b>26 05 36 00-2516 Ladder Bottom Fiberglass Cable Tray (26 05 36 00-2515)</b>                  |                           |                         |
| Note: Excludes hangers and support system.  |                           |                         |
| <b>26 05 36 00-2517 Straight Tray Sections (26 05 36 00-2516)</b>                               |                           |                         |
| 26 05 36 00-2518 LF 6" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....         | 14.07                     | 4.16                    |
| <i>For 9" Rung Spacing, Add</i>   | 0.28                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 1.19                      |                         |
| <i>For 4" Rung Spacing, Add</i>   | 2.18                      |                         |
| <i>For 18" Rung Spacing, Deduct</i>   | -0.20                     |                         |
| <i>For Solid Bottom, Add</i>  | 3.30                      |                         |
| <i>For Vented Trough Bottom, Add</i>  | 3.94                      |                         |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-2519 LF 9" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....  | 15.87                     | 5.08                    |
| For 9" Rung Spacing, Add   | 0.29                      |                         |
| For 6" Rung Spacing, Add   | 1.23                      |                         |
| For 4" Rung Spacing, Add   | 2.25                      |                         |
| For 18" Rung Spacing, Deduct   | -0.20                     |                         |
| For Solid Bottom, Add  | 3.61                      |                         |
| For Vented Trough Bottom, Add  | 4.23                      |                         |
| 26 05 36 00-2520 LF 12" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing ..... | 17.64                     | 6.15                    |
| For 9" Rung Spacing, Add   | 0.29                      |                         |
| For 6" Rung Spacing, Add   | 1.26                      |                         |
| For 4" Rung Spacing, Add   | 2.31                      |                         |
| For 18" Rung Spacing, Deduct   | -0.21                     |                         |
| For Solid Bottom, Add  | 3.91                      |                         |
| For Vented Trough Bottom, Add  | 4.52                      |                         |
| 26 05 36 00-2521 LF 18" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing ..... | 21.35                     | 8.15                    |
| For 9" Rung Spacing, Add   | 0.32                      |                         |
| For 6" Rung Spacing, Add   | 1.36                      |                         |
| For 4" Rung Spacing, Add   | 2.49                      |                         |
| For 18" Rung Spacing, Deduct   | -0.23                     |                         |
| For Solid Bottom, Add  | 4.56                      |                         |
| For Vented Trough Bottom, Add  | 5.15                      |                         |
| 26 05 36 00-2522 LF 24" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing ..... | 25.04                     | 10.31                   |
| For 9" Rung Spacing, Add   | 0.34                      |                         |
| For 6" Rung Spacing, Add   | 1.45                      |                         |
| For 4" Rung Spacing, Add   | 2.65                      |                         |
| For 18" Rung Spacing, Deduct   | -0.24                     |                         |
| For Solid Bottom, Add  | 5.20                      |                         |
| For Vented Trough Bottom, Add  | 5.78                      |                         |
| 26 05 36 00-2523 LF 30" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing ..... | 27.39                     | 11.23                   |
| For 9" Rung Spacing, Add   | 0.37                      |                         |
| For 6" Rung Spacing, Add   | 1.57                      |                         |
| For 4" Rung Spacing, Add   | 2.88                      |                         |
| For 18" Rung Spacing, Deduct   | -0.26                     |                         |
| For Solid Bottom, Add  | 5.68                      |                         |
| For Vented Trough Bottom, Add  | 6.30                      |                         |
| 26 05 36 00-2524 LF 36" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing ..... | 29.79                     | 12.30                   |
| For 9" Rung Spacing, Add   | 0.40                      |                         |
| For 6" Rung Spacing, Add   | 1.70                      |                         |
| For 4" Rung Spacing, Add   | 3.12                      |                         |
| For 18" Rung Spacing, Deduct   | -0.28                     |                         |
| For Solid Bottom, Add  | 6.17                      |                         |
| For Vented Trough Bottom, Add  | 6.84                      |                         |
| <b>26 05 36 00-2525 90 Degree Horizontal Elbows <small>(26 05 36 00-2516)</small></b>    |                           |                         |
| 26 05 36 00-2526 EA 6" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....           | 78.20                     | 30.76                   |
| For 9" Rung Spacing, Add   | 1.12                      |                         |
| For 6" Rung Spacing, Add   | 4.81                      |                         |
| For 4" Rung Spacing, Add   | 8.81                      |                         |
| For 18" Rung Spacing, Deduct   | -0.80                     |                         |
| For Solid Bottom, Add  | 16.54                     |                         |
| For Vented Trough Bottom, Add  | 18.59                     |                         |
| For 60 Degree Bend, Deduct   | -15.19                    |                         |
| For 45 Degree Bend, Deduct   | -21.02                    |                         |
| For 30 Degree Bend, Deduct   | -26.86                    |                         |
| 26 05 36 00-2527 EA 9" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....           | 87.71                     | 35.84                   |
| For 9" Rung Spacing, Add   | 1.19                      |                         |
| For 6" Rung Spacing, Add   | 5.08                      |                         |
| For 4" Rung Spacing, Add   | 9.32                      |                         |
| For 18" Rung Spacing, Deduct   | -0.85                     |                         |
| For Solid Bottom, Add  | 18.24                     |                         |
| For Vented Trough Bottom, Add  | 20.28                     |                         |
| For 60 Degree Bend, Deduct   | -16.56                    |                         |
| For 45 Degree Bend, Deduct   | -22.98                    |                         |
| For 30 Degree Bend, Deduct   | -29.40                    |                         |
| 26 05 36 00-2528 EA 12" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....          | 103.40                    | 45.07                   |
| For 9" Rung Spacing, Add   | 1.25                      |                         |
| For 6" Rung Spacing, Add   | 5.36                      |                         |
| For 4" Rung Spacing, Add   | 9.82                      |                         |
| For 18" Rung Spacing, Deduct   | -0.89                     |                         |
| For Solid Bottom, Add  | 20.87                     |                         |
| For Vented Trough Bottom, Add  | 22.75                     |                         |
| For 60 Degree Bend, Deduct   | -18.56                    |                         |
| For 45 Degree Bend, Deduct   | -25.87                    |                         |
| For 30 Degree Bend, Deduct   | -33.18                    |                         |
| 26 05 36 00-2529 EA 18" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....          | 122.55                    | 54.46                   |
| For 9" Rung Spacing, Add   | 1.44                      |                         |
| For 6" Rung Spacing, Add   | 6.15                      |                         |
| For 4" Rung Spacing, Add   | 11.28                     |                         |
| For 18" Rung Spacing, Deduct   | -1.03                     |                         |
| For Solid Bottom, Add  | 24.54                     |                         |
| For Vented Trough Bottom, Add  | 26.60                     |                         |
| For 60 Degree Bend, Deduct   | -21.69                    |                         |
| For 45 Degree Bend, Deduct   | -30.28                    |                         |
| For 30 Degree Bend, Deduct   | -38.87                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 36 00-2530 EA 24" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....          | 138.94                    | 62.61                   |
| For 9" Rung Spacing, Add   | 1.58                      |                         |
| For 6" Rung Spacing, Add   | 6.77                      |                         |
| For 4" Rung Spacing, Add   | 12.41                     |                         |
| For 18" Rung Spacing, Deduct   | -1.13                     |                         |
| For Solid Bottom, Add  | 27.61                     |                         |
| For Vented Trough Bottom, Add  | 29.77                     |                         |
| For 60 Degree Bend, Deduct   | -24.27                    |                         |
| For 45 Degree Bend, Deduct   | -33.92                    |                         |
| For 30 Degree Bend, Deduct   | -43.58                    |                         |
| 26 05 36 00-2531 EA 30" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....          | 151.82                    | 66.76                   |
| For 9" Rung Spacing, Add   | 1.81                      |                         |
| For 6" Rung Spacing, Add   | 7.78                      |                         |
| For 4" Rung Spacing, Add   | 14.26                     |                         |
| For 18" Rung Spacing, Deduct   | -1.30                     |                         |
| For Solid Bottom, Add  | 30.55                     |                         |
| For Vented Trough Bottom, Add  | 33.23                     |                         |
| For 60 Degree Bend, Deduct   | -27.11                    |                         |
| For 45 Degree Bend, Deduct   | -37.81                    |                         |
| For 30 Degree Bend, Deduct   | -48.51                    |                         |
| 26 05 36 00-2532 EA 36" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....          | 167.23                    | 71.84                   |
| For 9" Rung Spacing, Add   | 2.08                      |                         |
| For 6" Rung Spacing, Add   | 8.93                      |                         |
| For 4" Rung Spacing, Add   | 16.38                     |                         |
| For 18" Rung Spacing, Deduct   | -1.49                     |                         |
| For Solid Bottom, Add  | 34.02                     |                         |
| For Vented Trough Bottom, Add  | 37.28                     |                         |
| For 60 Degree Bend, Deduct   | -30.42                    |                         |
| For 45 Degree Bend, Deduct   | -42.35                    |                         |
| For 30 Degree Bend, Deduct   | -54.29                    |                         |
| <b>26 05 36 00-2533 Inside Or Outside Vertical Risers (26 05 36 00-2516)</b>             |                           |                         |
| 26 05 36 00-2534 EA 6" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....  | 111.66                    | 30.76                   |
| For 9" Rung Spacing, Add   | 2.29                      |                         |
| For 6" Rung Spacing, Add   | 9.83                      |                         |
| For 4" Rung Spacing, Add   | 18.02                     |                         |
| For 18" Rung Spacing, Deduct   | -1.64                     |                         |
| For Solid Bottom, Add  | 26.58                     |                         |
| For Vented Trough Bottom, Add  | 31.98                     |                         |
| For 60 Degree Bend, Deduct   | -26.24                    |                         |
| For 45 Degree Bend, Deduct   | -35.75                    |                         |
| For 30 Degree Bend, Deduct   | -45.26                    |                         |
| 26 05 36 00-2535 EA 9" Vertical Inside Or Outside Riser 90, Fiberglass .....             | 120.28                    | 35.84                   |
| For 9" Rung Spacing, Add   | 2.33                      |                         |
| For 6" Rung Spacing, Add   | 9.97                      |                         |
| For 4" Rung Spacing, Add   | 18.27                     |                         |
| For 18" Rung Spacing, Deduct   | -1.66                     |                         |
| For Solid Bottom, Add  | 28.01                     |                         |
| For Vented Trough Bottom, Add  | 33.31                     |                         |
| For 60 Degree Bend, Deduct   | -27.31                    |                         |
| For 45 Degree Bend, Deduct   | -37.31                    |                         |
| For 30 Degree Bend, Deduct   | -47.31                    |                         |
| 26 05 36 00-2536 EA 12" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray ..... | 135.04                    | 45.07                   |
| For 9" Rung Spacing, Add   | 2.36                      |                         |
| For 6" Rung Spacing, Add   | 10.10                     |                         |
| For 4" Rung Spacing, Add   | 18.52                     |                         |
| For 18" Rung Spacing, Deduct   | -1.68                     |                         |
| For Solid Bottom, Add  | 30.36                     |                         |
| For Vented Trough Bottom, Add  | 35.40                     |                         |
| For 60 Degree Bend, Deduct   | -29.00                    |                         |
| For 45 Degree Bend, Deduct   | -39.79                    |                         |
| For 30 Degree Bend, Deduct   | -50.58                    |                         |
| 26 05 36 00-2537 EA 18" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray ..... | 150.92                    | 54.46                   |
| For 9" Rung Spacing, Add   | 2.43                      |                         |
| For 6" Rung Spacing, Add   | 10.41                     |                         |
| For 4" Rung Spacing, Add   | 19.09                     |                         |
| For 18" Rung Spacing, Deduct   | -1.74                     |                         |
| For Solid Bottom, Add  | 33.05                     |                         |
| For Vented Trough Bottom, Add  | 37.95                     |                         |
| For 60 Degree Bend, Deduct   | -31.05                    |                         |
| For 45 Degree Bend, Deduct   | -42.76                    |                         |
| For 30 Degree Bend, Deduct   | -54.47                    |                         |
| 26 05 36 00-2538 EA 24" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray ..... | 165.07                    | 62.61                   |
| For 9" Rung Spacing, Add   | 2.49                      |                         |
| For 6" Rung Spacing, Add   | 10.69                     |                         |
| For 4" Rung Spacing, Add   | 19.59                     |                         |
| For 18" Rung Spacing, Deduct   | -1.78                     |                         |
| For Solid Bottom, Add  | 35.45                     |                         |
| For Vented Trough Bottom, Add  | 40.22                     |                         |
| For 60 Degree Bend, Deduct   | -32.89                    |                         |
| For 45 Degree Bend, Deduct   | -45.42                    |                         |
| For 30 Degree Bend, Deduct   | -57.95                    |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2539 EA 30" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray..... | 173.05                    | 66.76                   |
| For 9" Rung Spacing, Add  | 2.56                      |                         |
| For 6" Rung Spacing, Add  | 10.96                     |                         |
| For 4" Rung Spacing, Add  | 20.09                     |                         |
| For 18" Rung Spacing, Deduct  | -1.83                     |                         |
| For Solid Bottom, Add   | 36.92                     |                         |
| For Vented Trough Bottom, Add   | 41.73                     |                         |
| For 60 Degree Bend, Deduct  | -34.11                    |                         |
| For 45 Degree Bend, Deduct  | -47.15                    |                         |
| For 30 Degree Bend, Deduct  | -60.18                    |                         |
| 26 05 36 00-2540 EA 36" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray..... | 188.40                    | 71.84                   |
| For 9" Rung Spacing, Add  | 2.83                      |                         |
| For 6" Rung Spacing, Add  | 12.11                     |                         |
| For 4" Rung Spacing, Add  | 22.20                     |                         |
| For 18" Rung Spacing, Deduct  | -2.02                     |                         |
| For Solid Bottom, Add   | 40.37                     |                         |
| For Vented Trough Bottom, Add   | 45.75                     |                         |
| For 60 Degree Bend, Deduct  | -37.41                    |                         |
| For 45 Degree Bend, Deduct  | -51.67                    |                         |
| For 30 Degree Bend, Deduct  | -65.93                    |                         |
| <b>26 05 36 00-2541 Horizontal Tees (26 05 36 00-2516)</b>                              |                           |                         |
| 26 05 36 00-2542 EA 6" Horizontal Tee, Fiberglass Cable Tray .....                      | 171.91                    | 76.91                   |
| For 9" Rung Spacing, Add  | 1.98                      |                         |
| For 6" Rung Spacing, Add  | 8.48                      |                         |
| For 4" Rung Spacing, Add  | 15.55                     |                         |
| For 18" Rung Spacing, Deduct  | -1.41                     |                         |
| For Solid Bottom, Add   | 34.27                     |                         |
| For Vented Trough Bottom, Add   | 37.04                     |                         |
| 26 05 36 00-2543 EA 9" Horizontal Tee, Fiberglass Cable Tray .....                      | 194.15                    | 90.30                   |
| For 9" Rung Spacing, Add  | 2.06                      |                         |
| For 6" Rung Spacing, Add  | 8.82                      |                         |
| For 4" Rung Spacing, Add  | 16.16                     |                         |
| For 18" Rung Spacing, Deduct  | -1.47                     |                         |
| For Solid Bottom, Add   | 37.94                     |                         |
| For Vented Trough Bottom, Add   | 40.43                     |                         |
| 26 05 36 00-2544 EA 12" Horizontal Tee, Fiberglass Cable Tray .....                     | 222.54                    | 107.68                  |
| For 9" Rung Spacing, Add  | 2.14                      |                         |
| For 6" Rung Spacing, Add  | 9.15                      |                         |
| For 4" Rung Spacing, Add  | 16.78                     |                         |
| For 18" Rung Spacing, Deduct  | -1.53                     |                         |
| For Solid Bottom, Add   | 42.54                     |                         |
| For Vented Trough Bottom, Add   | 44.60                     |                         |
| 26 05 36 00-2545 EA 18" Horizontal Tee, Fiberglass Cable Tray .....                     | 248.66                    | 121.06                  |
| For 9" Rung Spacing, Add  | 2.35                      |                         |
| For 6" Rung Spacing, Add  | 10.07                     |                         |
| For 4" Rung Spacing, Add  | 18.47                     |                         |
| For 18" Rung Spacing, Deduct  | -1.68                     |                         |
| For Solid Bottom, Add   | 47.37                     |                         |
| For Vented Trough Bottom, Add   | 49.55                     |                         |
| 26 05 36 00-2546 EA 24" Horizontal Tee, Fiberglass Cable Tray .....                     | 261.25                    | 126.13                  |
| For 9" Rung Spacing, Add  | 2.52                      |                         |
| For 6" Rung Spacing, Add  | 10.81                     |                         |
| For 4" Rung Spacing, Add  | 19.81                     |                         |
| For 18" Rung Spacing, Deduct  | -1.80                     |                         |
| For Solid Bottom, Add   | 50.00                     |                         |
| For Vented Trough Bottom, Add   | 52.47                     |                         |
| 26 05 36 00-2547 EA 30" Horizontal Tee, Fiberglass Cable Tray .....                     | 279.57                    | 133.36                  |
| For 9" Rung Spacing, Add  | 2.79                      |                         |
| For 6" Rung Spacing, Add  | 11.94                     |                         |
| For 4" Rung Spacing, Add  | 21.89                     |                         |
| For 18" Rung Spacing, Deduct  | -1.99                     |                         |
| For Solid Bottom, Add   | 53.88                     |                         |
| For Vented Trough Bottom, Add   | 56.84                     |                         |
| 26 05 36 00-2548 EA 36" Horizontal Tee, Fiberglass Cable Tray .....                     | 303.30                    | 143.67                  |
| For 9" Rung Spacing, Add  | 3.08                      |                         |
| For 6" Rung Spacing, Add  | 13.19                     |                         |
| For 4" Rung Spacing, Add  | 24.18                     |                         |
| For 18" Rung Spacing, Deduct  | -2.20                     |                         |
| For Solid Bottom, Add   | 58.69                     |                         |
| For Vented Trough Bottom, Add   | 62.10                     |                         |
| <b>26 05 36 00-2549 Horizontal Crosses (26 05 36 00-2516)</b>                           |                           |                         |
| 26 05 36 00-2550 EA 6" Horizontal Cross, Fiberglass Cable Tray .....                    | 272.43                    | 133.36                  |
| For 9" Rung Spacing, Add  | 2.54                      |                         |
| For 6" Rung Spacing, Add  | 10.87                     |                         |
| For 4" Rung Spacing, Add  | 19.93                     |                         |
| For 18" Rung Spacing, Deduct  | -1.81                     |                         |
| For Solid Bottom, Add   | 51.73                     |                         |
| For Vented Trough Bottom, Add   | 53.98                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2551 EA 9" Horizontal Cross, Fiberglass Cable Tray .....      | 289.95                    | 143.67                  |
| <i>For 9" Rung Spacing, Add</i>   | 2.61                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 11.19                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 20.52                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.87                     |                         |
| <i>For Solid Bottom, Add</i>  | 54.68                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 56.76                     |                         |
| 26 05 36 00-2552 EA 12" Horizontal Cross, Fiberglass Cable Tray .....     | 307.49                    | 153.98                  |
| <i>For 9" Rung Spacing, Add</i>   | 2.69                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 11.51                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 21.11                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.92                     |                         |
| <i>For Solid Bottom, Add</i>  | 57.64                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 59.54                     |                         |
| 26 05 36 00-2553 EA 18" Horizontal Cross, Fiberglass Cable Tray .....     | 328.99                    | 164.13                  |
| <i>For 9" Rung Spacing, Add</i>   | 2.90                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 12.43                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 22.79                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -2.07                     |                         |
| <i>For Solid Bottom, Add</i>  | 61.78                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 63.91                     |                         |
| 26 05 36 00-2554 EA 24" Horizontal Cross, Fiberglass Cable Tray .....     | 349.06                    | 174.43                  |
| <i>For 9" Rung Spacing, Add</i>   | 3.06                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 13.13                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 24.08                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -2.19                     |                         |
| <i>For Solid Bottom, Add</i>  | 65.49                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 67.71                     |                         |
| 26 05 36 00-2555 EA 30" Horizontal Cross, Fiberglass Cable Tray .....     | 372.19                    | 184.74                  |
| <i>For 9" Rung Spacing, Add</i>   | 3.34                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 14.30                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 26.21                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -2.38                     |                         |
| <i>For Solid Bottom, Add</i>  | 70.13                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 72.74                     |                         |
| 26 05 36 00-2556 EA 36" Horizontal Cross, Fiberglass Cable Tray .....     | 402.20                    | 197.97                  |
| <i>For 9" Rung Spacing, Add</i>   | 3.69                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 15.80                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 28.96                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -2.63                     |                         |
| <i>For Solid Bottom, Add</i>  | 76.13                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 79.24                     |                         |
| <b>26 05 36 00-2557 Horizontal Wyes</b> <small>(26 05 36 00-2516)</small> |                           |                         |
| 26 05 36 00-2558 EA 6" Horizontal Wye, Fiberglass Cable Tray .....        | 166.18                    | 76.91                   |
| <i>For 9" Rung Spacing, Add</i>   | 1.78                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 7.62                      |                         |
| <i>For 4" Rung Spacing, Add</i>   | 13.98                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.27                     |                         |
| <i>For Solid Bottom, Add</i>  | 32.55                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 34.75                     |                         |
| 26 05 36 00-2559 EA 9" Horizontal Wye, Fiberglass Cable Tray .....        | 175.94                    | 82.14                   |
| <i>For 9" Rung Spacing, Add</i>   | 1.85                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 7.93                      |                         |
| <i>For 4" Rung Spacing, Add</i>   | 14.54                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.32                     |                         |
| <i>For Solid Bottom, Add</i>  | 34.32                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 36.53                     |                         |
| 26 05 36 00-2560 EA 12" Horizontal Wye, Fiberglass Cable Tray .....       | 216.42                    | 107.68                  |
| <i>For 9" Rung Spacing, Add</i>   | 1.92                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 8.24                      |                         |
| <i>For 4" Rung Spacing, Add</i>   | 15.10                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.37                     |                         |
| <i>For Solid Bottom, Add</i>  | 40.70                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 42.15                     |                         |
| 26 05 36 00-2561 EA 18" Horizontal Wye, Fiberglass Cable Tray .....       | 241.94                    | 121.06                  |
| <i>For 9" Rung Spacing, Add</i>   | 2.11                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 9.06                      |                         |
| <i>For 4" Rung Spacing, Add</i>   | 16.62                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.51                     |                         |
| <i>For Solid Bottom, Add</i>  | 45.35                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 46.86                     |                         |
| 26 05 36 00-2562 EA 24" Horizontal Wye, Fiberglass Cable Tray .....       | 253.90                    | 126.13                  |
| <i>For 9" Rung Spacing, Add</i>   | 2.26                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 9.71                      |                         |
| <i>For 4" Rung Spacing, Add</i>   | 17.79                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.62                     |                         |
| <i>For Solid Bottom, Add</i>  | 47.79                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 49.53                     |                         |
| 26 05 36 00-2563 EA 30" Horizontal Wye, Fiberglass Cable Tray .....       | 271.61                    | 133.36                  |
| <i>For 9" Rung Spacing, Add</i>   | 2.51                      |                         |
| <i>For 6" Rung Spacing, Add</i>   | 10.75                     |                         |
| <i>For 4" Rung Spacing, Add</i>   | 19.70                     |                         |
| <i>For 18" Rung Spacing, Deduct</i>                                       | -1.79                     |                         |
| <i>For Solid Bottom, Add</i>  | 51.49                     |                         |
| <i>For Vented Trough Bottom, Add</i>                                      | 53.65                     |                         |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 36 00-2564 EA 36" Horizontal Wye, Fiberglass Cable Tray ..... | 294.51                    | 143.67                  |
| For 9" Rung Spacing, Add  | 2.77                      |                         |
| For 6" Rung Spacing, Add  | 11.87                     |                         |
| For 4" Rung Spacing, Add  | 21.77                     |                         |
| For 18" Rung Spacing, Deduct  | -1.98                     |                         |
| For Solid Bottom, Add   | 56.05                     |                         |
| For Vented Trough Bottom, Add                                       | 58.58                     |                         |
| <b>26 05 36 00-2565 Straight Reducers (26 05 36 00-2516)</b>        |                           |                         |
| 26 05 36 00-2566 EA 9" To 6" Reducer, Fiberglass Cable Tray .....   | 74.92                     | 30.76                   |
| For 9" Rung Spacing, Add  | 1.01                      |                         |
| For 6" Rung Spacing, Add  | 4.32                      |                         |
| For 4" Rung Spacing, Add  | 7.91                      |                         |
| For 18" Rung Spacing, Deduct  | -0.72                     |                         |
| For Solid Bottom, Add   | 15.56                     |                         |
| For Vented Trough Bottom, Add                                       | 17.28                     |                         |
| 26 05 36 00-2567 EA 12" To 9" Reducer, Fiberglass Cable Tray .....  | 83.03                     | 35.84                   |
| For 9" Rung Spacing, Add  | 1.02                      |                         |
| For 6" Rung Spacing, Add  | 4.38                      |                         |
| For 4" Rung Spacing, Add  | 8.03                      |                         |
| For 18" Rung Spacing, Deduct  | -0.73                     |                         |
| For Solid Bottom, Add   | 16.83                     |                         |
| For Vented Trough Bottom, Add                                       | 18.41                     |                         |
| 26 05 36 00-2568 EA 18" To 12" Reducer, Fiberglass Cable Tray ..... | 91.13                     | 41.07                   |
| For 9" Rung Spacing, Add  | 1.04                      |                         |
| For 6" Rung Spacing, Add  | 4.44                      |                         |
| For 4" Rung Spacing, Add  | 8.14                      |                         |
| For 18" Rung Spacing, Deduct  | -0.74                     |                         |
| For Solid Bottom, Add   | 18.11                     |                         |
| For Vented Trough Bottom, Add                                       | 19.53                     |                         |
| 26 05 36 00-2569 EA 24" To 18" Reducer, Fiberglass Cable Tray ..... | 98.30                     | 45.07                   |
| For 9" Rung Spacing, Add  | 1.07                      |                         |
| For 6" Rung Spacing, Add  | 4.59                      |                         |
| For 4" Rung Spacing, Add  | 8.42                      |                         |
| For 18" Rung Spacing, Deduct  | -0.77                     |                         |
| For Solid Bottom, Add   | 19.34                     |                         |
| For Vented Trough Bottom, Add                                       | 20.71                     |                         |
| 26 05 36 00-2570 EA 30" To 24" Reducer, Fiberglass Cable Tray ..... | 109.55                    | 49.23                   |
| For 9" Rung Spacing, Add  | 1.25                      |                         |
| For 6" Rung Spacing, Add  | 5.36                      |                         |
| For 4" Rung Spacing, Add  | 9.82                      |                         |
| For 18" Rung Spacing, Deduct  | -0.89                     |                         |
| For Solid Bottom, Add   | 21.79                     |                         |
| For Vented Trough Bottom, Add                                       | 23.52                     |                         |
| 26 05 36 00-2571 EA 36" To 30" Reducer, Fiberglass Cable Tray ..... | 123.01                    | 54.46                   |
| For 9" Rung Spacing, Add  | 1.45                      |                         |
| For 6" Rung Spacing, Add  | 6.22                      |                         |
| For 4" Rung Spacing, Add  | 11.41                     |                         |
| For 18" Rung Spacing, Deduct  | -1.04                     |                         |
| For Solid Bottom, Add   | 24.68                     |                         |
| For Vented Trough Bottom, Add                                       | 26.79                     |                         |
| <b>26 05 36 00-2572 Vertical Tees (26 05 36 00-2516)</b>            |                           |                         |
| 26 05 36 00-2573 EA 6" Vertical Tee, Fiberglass Cable Tray .....    | 223.34                    | 76.91                   |
| For 9" Rung Spacing, Add  | 3.78                      |                         |
| For 6" Rung Spacing, Add  | 16.20                     |                         |
| For 4" Rung Spacing, Add  | 29.69                     |                         |
| For 18" Rung Spacing, Deduct  | -2.70                     |                         |
| For Solid Bottom, Add   | 49.70                     |                         |
| For Vented Trough Bottom, Add                                       | 57.61                     |                         |
| 26 05 36 00-2574 EA 9" Vertical Tee, Fiberglass Cable Tray .....    | 232.36                    | 82.14                   |
| For 9" Rung Spacing, Add  | 3.83                      |                         |
| For 6" Rung Spacing, Add  | 16.40                     |                         |
| For 4" Rung Spacing, Add  | 30.06                     |                         |
| For 18" Rung Spacing, Deduct  | -2.73                     |                         |
| For Solid Bottom, Add   | 51.25                     |                         |
| For Vented Trough Bottom, Add                                       | 59.11                     |                         |
| 26 05 36 00-2575 EA 12" Vertical Tee, Fiberglass Cable Tray .....   | 272.14                    | 107.68                  |
| For 9" Rung Spacing, Add  | 3.87                      |                         |
| For 6" Rung Spacing, Add  | 16.59                     |                         |
| For 4" Rung Spacing, Add  | 30.42                     |                         |
| For 18" Rung Spacing, Deduct  | -2.77                     |                         |
| For Solid Bottom, Add   | 57.42                     |                         |
| For Vented Trough Bottom, Add                                       | 64.44                     |                         |
| 26 05 36 00-2576 EA 18" Vertical Tee, Fiberglass Cable Tray .....   | 295.21                    | 121.06                  |
| For 9" Rung Spacing, Add  | 3.98                      |                         |
| For 6" Rung Spacing, Add  | 17.05                     |                         |
| For 4" Rung Spacing, Add  | 31.26                     |                         |
| For 18" Rung Spacing, Deduct  | -2.84                     |                         |
| For Solid Bottom, Add   | 61.34                     |                         |
| For Vented Trough Bottom, Add                                       | 68.17                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 05 36 00-2577 EA 24" Vertical Tee, Fiberglass Cable Tray .....<br><i>For 9" Rung Spacing, Add</i><br><i>For 6" Rung Spacing, Add</i><br><i>For 4" Rung Spacing, Add</i><br><i>For 18" Rung Spacing, Deduct</i><br><i>For Solid Bottom, Add</i><br><i>For Vented Trough Bottom, Add</i> | 305.75<br>4.08<br>17.48<br>32.05<br>-2.91<br>63.35<br>70.27 | 126.13                  |
| 26 05 36 00-2578 EA 30" Vertical Tee, Fiberglass Cable Tray .....<br><i>For 9" Rung Spacing, Add</i><br><i>For 6" Rung Spacing, Add</i><br><i>For 4" Rung Spacing, Add</i><br><i>For 18" Rung Spacing, Deduct</i><br><i>For Solid Bottom, Add</i><br><i>For Vented Trough Bottom, Add</i> | 319.17<br>4.17<br>17.88<br>32.78<br>-2.98<br>65.76<br>72.68 | 133.36                  |
| 26 05 36 00-2579 EA 36" Vertical Tee, Fiberglass Cable Tray .....<br><i>For 9" Rung Spacing, Add</i><br><i>For 6" Rung Spacing, Add</i><br><i>For 4" Rung Spacing, Add</i><br><i>For 18" Rung Spacing, Deduct</i><br><i>For Solid Bottom, Add</i><br><i>For Vented Trough Bottom, Add</i> | 347.06<br>4.61<br>19.76<br>36.22<br>-3.29<br>71.81<br>79.60 | 143.67                  |

**26 05 39 Underfloor Raceways for Electrical Systems** (26 05)

|   |          |       |
|---|----------|-------|
| 26 05 39 00-0001 Underfloor Ducts <small>(26 05 39)</small>   |          |       |
| 26 05 39 00-0002 Straight Duct Sections 10' Long, 14 Gauge Steel <small>(26 05 39 00-0001)</small>  |          |       |
| 26 05 39 00-0003 Standard Ducts, 3.8 Square Inches <small>(26 05 39 00-0002)</small>  |          |       |
| 26 05 39 00-0004 EA Standard Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 3.8 Square Inches.....   | 120.74   | 27.08 |
| 26 05 39 00-0005 EA Standard Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 3.8 Square Inches.....  | 151.18   | 31.69 |
| 26 05 39 00-0006 Large Capacity Ducts, 8.9 Square Inches <small>(26 05 39 00-0002)</small>  |          |       |
| 26 05 39 00-0007 EA Large Capacity Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 8.9 Square Inches.....   | 197.42   | 34.30 |
| 26 05 39 00-0008 EA Large Capacity Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 8.9 Square Inches.....  | 225.64   | 38.00 |
| 26 05 39 00-0009 Junction Boxes <small>(26 05 39 00-0001)</small>   |          |       |
| 26 05 39 00-0010 One Level Junction Boxes <small>(26 05 39 00-0009)</small>   |          |       |
| 26 05 39 00-0011 EA 1 Level UF Duct Junction Box, 1 Standard Duct Without Partitions In Box.....  | 301.49   | 53.83 |
| 26 05 39 00-0012 EA 1 Level UF Duct Junction Box, 1 Large Duct Without Partitions In Box.....   | 340.15   | 57.68 |
| 26 05 39 00-0013 EA 1 Level UF Duct Junction Box, 1 Standard And Large Duct Per Side With Partitions In Box.....<br>Note: Isolate each duct and form a continuous raceway through the box in both directions.                             | 533.64   | 53.83 |
| 26 05 39 00-0014 EA 1 Level UF Duct Junction Box, 2 Standard Ducts Per Side With Partitions In Box.....   | 370.43   | 57.68 |
| 26 05 39 00-0015 EA 1 Level UF Duct Junction Box, 3 Standard Ducts Per Side With Partitions In Box.....   | 582.50   | 75.83 |
| 26 05 39 00-0016 EA 1 Level UF Duct Junction Box, 2 Large Ducts Per Side With Partitions In Box Duct.....   | 808.93   | 82.44 |
| 26 05 39 00-0017 Two Level Junction Boxes <small>(26 05 39 00-0009)</small>   |          |       |
| 26 05 39 00-0018 EA 2 Level UF Duct Junction Box, 2 Standard Duct Cross, Intersects At Right Angles, Raceway Bottom Level.....<br>Note: Accepts two standard ducts to form a continuous raceway at right angles to the top level raceway. | 1,207.73 | 54.46 |
| 26 05 39 00-0019 EA 2 Level UF Duct Junction Box, 2 Large Duct Bottom Level: Accepts Two Large Capacity Ducts.....  | 1,387.88 | 57.68 |
| 26 05 39 00-0020 Elbow Fittings <small>(26 05 39 00-0001)</small>   |          |       |
| 26 05 39 00-0021 90 Degree Horizontal Elbow <small>(26 05 39 00-0020)</small>   |          |       |
| 26 05 39 00-0022 EA Underfloor Standard Duct Horizontal Elbow Fitting, 90 Degree.....   | 144.99   | 19.84 |
| 26 05 39 00-0023 EA Underfloor Large Duct Horizontal Elbow Fitting, 90 Degree.....  | 149.14   | 19.84 |
| 26 05 39 00-0024 90 Degree Vertical Elbow <small>(26 05 39 00-0020)</small>   |          |       |
| 26 05 39 00-0025 EA Underfloor Standard Duct Vertical Elbow Fitting, 90 Degree.....   | 84.43    | 19.84 |
| 26 05 39 00-0026 EA Underfloor Large Duct Vertical Elbow Fitting, 90 Degree.....  | 86.09    | 19.84 |
| 26 05 39 00-0027 Offset Elbow <small>(26 05 39 00-0020)</small>   |          |       |
| Note: Two elbows required for crossover or crossunder.  |          |       |
| 26 05 39 00-0028 EA Underfloor Standard Duct Offset Elbow 45 Degree, 2 Required For Over-Under.....   | 84.43    | 23.07 |
| 26 05 39 00-0029 EA Underfloor Large Duct Offset Elbow 45 Degree, 2 Required For Over-Under.....  | 86.09    | 23.07 |
| 26 05 39 00-0030 Couplings <small>(26 05 39 00-0001)</small>  |          |       |
| 26 05 39 00-0031 Sleeve Couplings <small>(26 05 39 00-0030)</small>   |          |       |
| 26 05 39 00-0032 EA Underfloor Standard Duct Sleeve Coupling.....   | 57.56    | 30.76 |
| 26 05 39 00-0033 EA Underfloor Large Duct Sleeve Coupling.....  | 90.63    | 30.76 |

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 39 Underfloor Raceways for Electrical Systems**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 05 39 00-0034 Expansion Couplings</b> (26 05 39 00-0030)  |                           |                         |
| 26 05 39 00-0035 EA Underfloor Standard Duct Expansion Coupling .....   | 122.49                    | 30.76                   |
| 26 05 39 00-0036 EA Underfloor Large Duct Expansion Coupling .....  | 124.57                    | 32.46                   |
| <b>26 05 39 00-0037 Reducing Couplings</b> (26 05 39 00-0030)   |                           |                         |
| 26 05 39 00-0038 EA Reducing Coupling, Large To Standard Duct Underfloor Duct Coupling .....                  | 108.14                    | 4.62                    |
| <b>26 05 39 00-0039 Duct Supports</b> (26 05 39 00-0001)  |                           |                         |
| <b>26 05 39 00-0040 Combination Support And Coupling</b> (26 05 39 00-0039)                                   |                           |                         |
| Note: Includes leveling legs and anchoring feet.  |                           |                         |
| 26 05 39 00-0041 EA 1 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....   | 132.64                    | 64.60                   |
| 26 05 39 00-0042 EA 2 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....   | 148.37                    | 64.60                   |
| 26 05 39 00-0043 EA 3 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....   | 164.22                    | 64.60                   |
| 26 05 39 00-0044 EA 1 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....      | 148.37                    | 72.30                   |
| 26 05 39 00-0045 EA 2 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....      | 180.42                    | 72.30                   |
| 26 05 39 00-0046 EA 1 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet ..... | 164.22                    | 76.91                   |
| 26 05 39 00-0047 EA 2 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet ..... | 164.22                    | 76.91                   |
| 26 05 39 00-0048 EA 1 Standard And 2 Large Duct Support And Coupling With Leveling Legs And Anchor Feet ..... | 180.42                    | 76.91                   |
| <b>26 05 39 00-0049 Duct Support Only</b> (26 05 39 00-0039)  |                           |                         |
| Note: Includes leveling legs and anchoring feet.  |                           |                         |
| 26 05 39 00-0050 EA 1 Underfloor Duct Support Only With Leveling Legs And Anchor Feet .....                   | 118.69                    | 56.91                   |
| 26 05 39 00-0051 EA 2 Underfloor Duct Support Only With Leveling Legs And Anchor Feet .....                   | 139.47                    | 56.91                   |
| 26 05 39 00-0052 EA 3 Underfloor Duct Support Only With Leveling Legs And Anchor Feet .....                   | 161.55                    | 56.91                   |
| <b>26 05 39 00-0053 Underfloor Duct Accessories</b> (26 05 39 00-0001)  |                           |                         |
| <b>26 05 39 00-0054 Plugs For Unused Junction Box Openings And Duct Ends</b> (26 05 39 00-0053)               |                           |                         |
| 26 05 39 00-0055 EA Standard Plugs For Unused Junction Box Opening And Underfloor Duct Ends .....             | 29.54                     | 4.62                    |
| 26 05 39 00-0056 EA Large Plugs For Unused Junction Box Opening And Underfloor Duct Ends .....                | 30.35                     | 4.62                    |
| <b>26 05 39 00-0057 Conduit Adapters</b> (26 05 39 00-0053)   |                           |                         |
| 26 05 39 00-0058 EA One 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter .....             | 43.10                     | 7.69                    |
| 26 05 39 00-0059 EA Two 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter .....             | 45.94                     | 7.69                    |
| 26 05 39 00-0060 EA One 2" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter .....                 | 44.69                     | 7.69                    |
| 26 05 39 00-0061 EA Three 1-1/4" Conduit To Large Duct Underfloor Conduit To Duct, Adapter .....              | 46.31                     | 7.69                    |
| <b>26 05 39 00-0062 Holders And Caps</b> (26 05 39 00-0053)   |                           |                         |
| 26 05 39 00-0063 EA Tile Holder, Underfloor Duct Accessories .....  | 286.82                    | 64.60                   |
| 26 05 39 00-0064 EA Terrazzo Holder, Underfloor Duct Accessories .....  | 526.74                    | 64.60                   |
| 26 05 39 00-0065 EA Closing Caps For Inserts, Underfloor Duct Accessories .....                               | 3.82                      | 1.54                    |
| <b>26 05 39 00-0066 Underfloor Dust Pans</b> (26 05 39 00-0001)   |                           |                         |
| 26 05 39 00-0067 EA Underfloor Dust Carpet Pan .....  | 117.49                    | 8.44                    |
| <b>26 05 43 Underground Ducts and Raceways for Electrical Systems</b> (26 05)                                 |                           |                         |
| Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.              |                           |                         |
| <b>26 05 46 Utility Poles for Electrical Systems</b> (26 05)  |                           |                         |
| <b>26 05 46 00-0001 Wood Poles</b> (26 05 46)   |                           |                         |
| <b>26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention</b> (26 05 46 00-0001)                |                           |                         |
| Note: Machine dig and set.  |                           |                         |
| 26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set .....                                 | 1,124.13                  | 392.96                  |
| For Class 1 Pole, Add   | 118.32                    |                         |
| For Class 2 Pole, Add   | 67.61                     |                         |
| For Class 4 Pole, Deduct  | -33.81                    |                         |
| For Class 5 Pole, Deduct  | -101.42                   |                         |
| For Class 6 Pole, Deduct  | -135.22                   |                         |
| 26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set .....                                 | 1,331.03                  | 436.00                  |
| For Class 1 Pole, Add   | 160.65                    |                         |
| For Class 2 Pole, Add   | 91.80                     |                         |
| For Class 4 Pole, Deduct  | -45.90                    |                         |
| For Class 5 Pole, Deduct  | -137.70                   |                         |
| For Class 6 Pole, Deduct  | -183.60                   |                         |
| 26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set .....                                 | 1,730.29                  | 576.64                  |
| For Class 1 Pole, Add   | 202.01                    |                         |
| For Class 2 Pole, Add   | 115.43                    |                         |
| For Class 4 Pole, Deduct  | -57.72                    |                         |
| For Class 5 Pole, Deduct  | -173.15                   |                         |
| For Class 6 Pole, Deduct  | -230.87                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 1,969.28                  | 634.24                  |
| For Class 1 Pole, Add   | 245.30                    |                         |
| For Class 2 Pole, Add   | 140.17                    |                         |
| For Class 4 Pole, Deduct  | -70.09                    |                         |
| For Class 5 Pole, Deduct  | -210.26                   |                         |
| For Class 6 Pole, Deduct  | -280.34                   |                         |
| 26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 2,242.97                  | 706.40                  |
| For Class 1 Pole, Add   | 290.51                    |                         |
| For Class 2 Pole, Add   | 166.01                    |                         |
| For Class 4 Pole, Deduct  | -83.00                    |                         |
| For Class 5 Pole, Deduct  | -249.01                   |                         |
| For Class 6 Pole, Deduct  | -332.01                   |                         |
| 26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 2,547.49                  | 792.80                  |
| For Class 1 Pole, Add   | 336.68                    |                         |
| For Class 2 Pole, Add   | 192.39                    |                         |
| For Class 4 Pole, Deduct  | -96.20                    |                         |
| For Class 5 Pole, Deduct  | -288.59                   |                         |
| For Class 6 Pole, Deduct  | -384.78                   |                         |
| 26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 2,843.47                  | 872.00                  |
| For Class 1 Pole, Add   | 384.78                    |                         |
| For Class 2 Pole, Add   | 219.87                    |                         |
| For Class 4 Pole, Deduct  | -109.94                   |                         |
| For Class 5 Pole, Deduct  | -329.81                   |                         |
| For Class 6 Pole, Deduct  | -439.75                   |                         |
| 26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 3,171.20                  | 958.89                  |
| For Class 1 Pole, Add   | 438.65                    |                         |
| For Class 2 Pole, Add   | 250.66                    |                         |
| For Class 4 Pole, Deduct  | -125.33                   |                         |
| For Class 5 Pole, Deduct  | -375.99                   |                         |
| For Class 6 Pole, Deduct  | -501.32                   |                         |
| 26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 4,978.10                  | 1,045.12                |
| For Class 1 Pole, Add   | 1,010.73                  |                         |
| For Class 2 Pole, Add   | 577.56                    |                         |
| For Class 4 Pole, Deduct  | -288.78                   |                         |
| For Class 5 Pole, Deduct  | -866.34                   |                         |
| For Class 6 Pole, Deduct  | -1,155.12                 |                         |
| 26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 5,451.99                  | 1,111.76                |
| For Class 1 Pole, Add   | 1,129.95                  |                         |
| For Class 2 Pole, Add   | 645.69                    |                         |
| For Class 4 Pole, Deduct  | -322.84                   |                         |
| For Class 5 Pole, Deduct  | -968.53                   |                         |
| For Class 6 Pole, Deduct  | -1,291.38                 |                         |
| 26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....                                      | 5,978.87                  | 1,187.43                |
| For Class 1 Pole, Add   | 1,261.38                  |                         |
| For Class 2 Pole, Add   | 720.79                    |                         |
| For Class 4 Pole, Deduct  | -360.39                   |                         |
| For Class 5 Pole, Deduct  | -1,081.18                 |                         |
| For Class 6 Pole, Deduct  | -1,441.57                 |                         |
| <b>26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)</b>                    |                           |                         |
| 26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....                            | 33.48                     |                         |
| <b>26 05 46 00-0016 Crossarms (26 05 46)</b>  |                           |                         |
| Note: Includes hardware and braces.   |                           |                         |
| <b>26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)</b>  |                           |                         |
| 26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....              | 276.95                    | 117.21                  |
| 26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....              | 335.81                    | 117.21                  |
| 26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....             | 353.10                    | 150.69                  |
| <b>26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)</b>  |                           |                         |
| 26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....              | 716.79                    | 326.49                  |
| 26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....              | 762.24                    | 326.49                  |
| 26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....             | 794.51                    | 326.49                  |
| <b>26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)</b>   |                           |                         |
| Note: Includes hardware.  |                           |                         |
| <b>26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)</b>  |                           |                         |
| 26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....                | 289.91                    |                         |
| 26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 1 1/16" Diameter Hole, Minimum Ultimate Load 1,200 LB..... | 371.17                    | 70.32                   |
| 26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....      | 387.93                    | 75.35                   |
| <b>26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)</b>   |                           |                         |
| 26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB.....                        | 464.68                    | 90.42                   |
| <b>26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)</b>  |                           |                         |
| 26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor.....           | 741.86                    | 115.53                  |



**26 Electrical****26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor .....          | 881.42                    | 140.64                  |
| 26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded .....                                  | 129.01                    | 20.09                   |
| 26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket .....   | 645.09                    | 100.46                  |
| 26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm .....  | 521.00                    | 167.43                  |
| <b>26 05 46 00-0038 Insulator Support System</b> (26 05 46 00-0016)  |                           |                         |
| <b>26 05 46 00-0039 Epoxy Construction Units, In Place Mounting</b> (26 05 46 00-0038)                             |                           |                         |
| Note: Includes hardware.   |                           |                         |
| 26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting .....  | 156.63                    |                         |
| 26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting .....                              | 125.31                    |                         |
| 26 05 46 00-0042 EA Deadend Arms, In Place Mounting .....  | 340.30                    |                         |
| 26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting ..... | 245.59                    |                         |
| <b>26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting</b> (26 05 46 00-0038)                            |                           |                         |
| Note: Includes hardware.   |                           |                         |
| 26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting .....                   | 108.17                    |                         |
| 26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting .....                             | 93.01                     |                         |
| 26 05 46 00-0047 EA Deadend Arms, Grounding Mounting .....   | 308.00                    |                         |
| <b>26 05 46 00-0048 Guying</b> (26 05 46)  |                           |                         |
| Note: Includes cable, anchor and rod assembly, guy marker.   |                           |                         |
| <b>26 05 46 00-0049 Down Guy</b> (26 05 46 00-0048)  |                           |                         |
| 26 05 46 00-0050 EA Down Guy For 25' To 40' Pole .....   | 1,144.26                  | 468.82                  |
| 26 05 46 00-0051 EA Down Guy For 45' To 60' Pole .....   | 1,163.95                  | 468.82                  |
| 26 05 46 00-0052 EA Down Guy For 65' To 75' Pole .....   | 1,204.44                  | 468.82                  |
| 26 05 46 00-0053 EA Guy Guard, Plastic .....   | 45.04                     |                         |
| <b>26 05 46 00-0054 Head Guy, 50' Spans</b> (26 05 46 00-0048)   |                           |                         |
| 26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole .....   | 1,656.34                  | 719.97                  |
| 26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole .....   | 1,656.34                  | 719.97                  |
| 26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole .....   | 1,656.34                  | 719.97                  |
| <b>26 05 46 00-0058 Guy Strain Insulators Additional Insulators</b> (26 05 46 00-0048)                             |                           |                         |
| Note: As required at same material cost and labor.   |                           |                         |
| 26 05 46 00-0059 EA Guy Strain Insulator .....   | 710.04                    | 351.61                  |
| <b>26 05 46 00-0060 Pole Anchor</b> (26 05 46 00-0048)   |                           |                         |
| Note: Joslyn.  |                           |                         |
| 26 05 46 00-0061 EA Pole Anchor, 4" Helix, 3/4" x 54" Shaft .....  | 66.21                     | 27.00                   |
| 26 05 46 00-0062 EA Pole Anchor, 6" Helix, 3/4" x 66" Shaft .....  | 75.53                     | 27.00                   |
| 26 05 46 00-0063 EA Pole Anchor, 8" Helix, 1" x 66" Shaft .....  | 101.68                    | 30.37                   |
| 26 05 46 00-0064 EA Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft .....   | 144.36                    | 33.75                   |
| 26 05 46 00-0065 EA Pole Anchor, 10" Helix, 1-1/4" x 8' Shaft .....  | 165.12                    | 37.13                   |
| 26 05 46 00-0066 EA Pole Anchor, 16" Helix, 1-1/4" x 8' Shaft .....  | 266.43                    | 50.62                   |
| <b>26 05 46 00-0067 Insulators</b> (26 05 46)  |                           |                         |
| <b>26 05 46 00-0068 Pin Insulator With Pin</b> (26 05 46 00-0067)  |                           |                         |
| 26 05 46 00-0069 EA 5 KV Class 55-3, Pin Insulator With Pin .....  | 222.32                    | 100.46                  |
| 26 05 46 00-0070 EA 15 KV Class 55-5, Pin Insulator With Pin .....   | 227.37                    | 100.46                  |
| <b>26 05 46 00-0071 Suspension Insulator</b> (26 05 46 00-0067)  |                           |                         |
| Note: Includes clevis and strain clamp.  |                           |                         |
| 26 05 46 00-0072 EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp .....                      | 280.20                    | 133.95                  |
| 26 05 46 00-0073 EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp .....                     | 293.93                    | 133.95                  |
| 26 05 46 00-0074 EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp .....                 | 408.20                    | 167.43                  |
| 26 05 46 00-0075 EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp .....                 | 640.86                    | 267.89                  |
| <b>26 05 46 00-0076 Spool Insulator With Clevis</b> (26 05 46 00-0067)   |                           |                         |
| 26 05 46 00-0077 EA 5 KV Class 53-5, Spool Insulator With Clevis .....   | 93.29                     | 41.86                   |
| 26 05 46 00-0078 EA 15 KV Class, Spool Insulator With Clevis .....   | 297.70                    | 150.69                  |
| 26 05 46 00-0079 EA 25 KV Class, Spool Insulator With Clevis .....   | 386.46                    | 150.69                  |
| <b>26 05 46 00-0080 Secondary Rack</b> (26 05 46 00-0067)  |                           |                         |
| 26 05 46 00-0081 EA 1 Spool Secondary Rack .....   | 185.60                    | 83.71                   |
| 26 05 46 00-0082 EA 2 Spool Secondary Rack .....   | 190.02                    | 106.83                  |
| 26 05 46 00-0083 EA 3 Spool Secondary Rack .....   | 284.72                    | 142.32                  |
| 26 05 46 00-0084 EA 4 Spool Secondary Rack .....   | 320.51                    | 142.32                  |



|                  | MINOR<br>CSI UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|------------------|---|---------------------------|-------------------------|
| 26 05 46 00-0085 |                  | <b>Outdoor Load Break Switches</b> <small>(26 05 46)</small>  |                           |                         |
|                  |                  | Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel. |                           |                         |
| 26 05 46 00-0086 |                  | <b>7.2 KV Outdoor Load Break Switches</b> <small>(26 05 46 00-0085)</small>   |                           |                         |
| 26 05 46 00-0087 | EA               | 600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....   | 5,083.52                  | 569.27                  |
| 26 05 46 00-0088 | EA               | 1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....   | 9,826.80                  | 569.27                  |
| 26 05 46 00-0089 | EA               | 1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....   | 14,623.59                 | 962.75                  |
| 26 05 46 00-0090 | EA               | 2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....   | 14,969.80                 | 962.75                  |
| 26 05 46 00-0091 |                  | <b>14.4 KV Outdoor Load Break Switches</b> <small>(26 05 46 00-0085)</small>  |                           |                         |
| 26 05 46 00-0092 | EA               | 600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 6,173.82                  | 569.27                  |
| 26 05 46 00-0093 | EA               | 1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 11,576.59                 | 569.27                  |
| 26 05 46 00-0094 | EA               | 1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 14,623.59                 | 962.75                  |
| 26 05 46 00-0095 | EA               | 2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 14,969.80                 | 962.75                  |
| 26 05 46 00-0096 |                  | <b>23 KV Outdoor Load Break Switches</b> <small>(26 05 46 00-0085)</small>  |                           |                         |
| 26 05 46 00-0097 | EA               | 600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 6,818.72                  | 661.36                  |
| 26 05 46 00-0098 | EA               | 1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 12,676.57                 | 661.36                  |
| 26 05 46 00-0099 | EA               | 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 15,324.06                 | 1,138.55                |
| 26 05 46 00-0100 | EA               | 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....  | 15,681.61                 | 1,138.55                |
| 26 05 46 00-0101 |                  | <b>Square Distribution Poles</b> <small>(26 05 46)</small>  |                           |                         |
| 26 05 46 00-0102 |                  | <b>Square Steel Tapered Shaft Distribution Poles</b> <small>(26 05 46 00-0101)</small>  |                           |                         |
| 26 05 46 00-0103 | EA               | 20', Steel Taped Shaft Distribution Pole .....  | 4,180.59                  | 711.59                  |
| 26 05 46 00-0104 | EA               | 25', Steel Taped Shaft Distribution Pole .....  | 4,675.49                  | 753.45                  |
| 26 05 46 00-0105 | EA               | 30', Steel Taped Shaft Distribution Pole .....  | 5,074.87                  | 837.16                  |
| 26 05 46 00-0106 | EA               | 35', Steel Taped Shaft Distribution Pole .....  | 5,614.88                  | 920.88                  |
| 26 05 46 00-0107 | EA               | 40', Steel Taped Shaft Distribution Pole .....  | 7,587.50                  | 1,004.60                |
| 26 05 46 00-0108 |                  | <b>Square Prestressed Concrete Distribution Poles</b> <small>(26 05 46 00-0101)</small>   |                           |                         |
| 26 05 46 00-0109 | EA               | 30', Prestressed Concrete Square Pole For Distribution .....  | 5,473.49                  | 1,250.21                |
| 26 05 46 00-0110 | EA               | 35', Prestressed Concrete Square Pole For Distribution .....  | 6,147.67                  | 1,371.20                |
| 26 05 46 00-0111 | EA               | 40', Prestressed Concrete Square Pole For Distribution .....  | 7,186.75                  | 1,532.52                |
| 26 05 46 00-0112 | EA               | 45', Prestressed Concrete Square Pole For Distribution .....  | 8,090.44                  | 1,693.84                |
| 26 05 46 00-0113 | EA               | 50', Prestressed Concrete Square Pole For Distribution .....  | 7,580.86                  | 2,056.80                |
| 26 05 46 00-0114 | EA               | 55', Prestressed Concrete Square Pole For Distribution .....  | 11,402.54                 | 2,419.76                |
| 26 05 46 00-0115 | EA               | 60', Prestressed Concrete Square Pole For Distribution .....  | 13,419.27                 | 2,742.40                |
| 26 05 46 00-0116 | EA               | 65', Prestressed Concrete Square Pole For Distribution .....  | 16,219.88                 | 3,387.67                |
| 26 05 46 00-0117 | EA               | 70', Prestressed Concrete Square Pole For Distribution .....  | 18,147.73                 | 3,710.31                |
| 26 05 46 00-0118 |                  | <b>Aluminum Tapered Poles</b> <small>(26 05 46)</small>   |                           |                         |
| 26 05 46 00-0119 |                  | <b>Aluminum Tapered Round Seamless Shaft Poles</b> <small>(26 05 46 00-0118)</small>  |                           |                         |
| 26 05 46 00-0120 | EA               | 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....  | 3,586.62                  | 627.88                  |
| 26 05 46 00-0121 | EA               | 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....  | 4,953.45                  | 669.74                  |
| 26 05 46 00-0122 | EA               | 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....  | 5,690.73                  | 753.45                  |
| 26 05 46 00-0123 | EA               | 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....  | 6,729.22                  | 837.16                  |
| 26 05 46 00-0124 | EA               | 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....  | 10,057.47                 | 920.88                  |
| 26 05 46 00-0125 |                  | <b>Steel Service Poles Distribution</b> <small>(26 05 46)</small>   |                           |                         |
|                  |                  | Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.  |                           |                         |
| 26 05 46 00-0126 |                  | <b>Round Tapered Pole</b> <small>(26 05 46 00-0125)</small>   |                           |                         |
| 26 05 46 00-0127 | EA               | 40', Galvanized Steel Tapered Round Pole For Distribution .....   | 5,085.88                  | 1,004.60                |
| 26 05 46 00-0128 | EA               | 45', Galvanized Steel Tapered Round Pole For Distribution .....   | 5,873.27                  | 1,088.32                |
| 26 05 46 00-0129 | EA               | 50', Galvanized Steel Tapered Round Pole For Distribution .....   | 6,263.36                  | 1,172.03                |
| 26 05 46 00-0130 | EA               | 55', Galvanized Steel Tapered Round Pole For Distribution .....   | 7,358.17                  | 1,339.47                |
| 26 05 46 00-0131 | EA               | 60', Galvanized Steel Tapered Round Pole For Distribution .....   | 9,032.97                  | 1,506.90                |
| 26 05 46 00-0132 | EA               | 65', Galvanized Steel Tapered Round Pole For Distribution .....   | 10,693.02                 | 1,895.48                |
| 26 05 46 00-0133 | EA               | 70', Galvanized Steel Tapered Round Pole For Distribution .....   | 11,922.28                 | 2,150.36                |
| 26 05 46 00-0134 | EA               | 75', Galvanized Steel Tapered Round Pole For Distribution .....   | 13,190.24                 | 2,419.76                |
| 26 05 46 00-0135 | EA               | 80', Galvanized Steel Tapered Round Pole For Distribution .....   | 14,824.74                 | 2,742.40                |
| 26 05 46 00-0136 | EA               | 85', Galvanized Steel Tapered Round Pole For Distribution .....   | 15,833.93                 | 2,903.72                |
| 26 05 46 00-0137 | EA               | 90', Galvanized Steel Tapered Round Pole For Distribution .....   | 17,219.27                 | 3,226.35                |
| 26 05 46 00-0138 | EA               | 95', Galvanized Steel Tapered Round Pole For Distribution .....   | 18,949.11                 | 3,629.65                |
| 26 05 46 00-0139 | EA               | 100', Galvanized Steel Tapered Round Pole For Distribution .....  | 20,979.66                 | 4,113.60                |
| 26 05 46 00-0140 |                  | <b>12 Sided Tapered</b> <small>(26 05 46 00-0125)</small>   |                           |                         |
| 26 05 46 00-0141 | EA               | 40', Galvanized Steel Tapered 12 Sided Pole For Distribution .....  | 8,383.52                  | 1,004.60                |
| 26 05 46 00-0142 | EA               | 45', Galvanized Steel Tapered 12 Sided Pole For Distribution .....  | 9,242.35                  | 1,088.32                |
| 26 05 46 00-0143 | EA               | 50', Galvanized Steel Tapered 12 Sided Pole For Distribution .....  | 10,220.69                 | 1,172.03                |
| 26 05 46 00-0144 | EA               | 55', Galvanized Steel Tapered 12 Sided Pole For Distribution .....  | 11,253.03                 | 1,339.47                |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 46 00-0145 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 14,835.20                 | 1,506.90                |
| 26 05 46 00-0146 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 16,530.93                 | 1,895.48                |
| 26 05 46 00-0147 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 19,132.73                 | 2,150.36                |
| 26 05 46 00-0148 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 20,627.96                 | 2,419.76                |
| 26 05 46 00-0149 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 22,253.13                 | 2,742.40                |
| 26 05 46 00-0150 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 23,579.20                 | 2,903.72                |
| 26 05 46 00-0151 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 26,742.59                 | 3,226.35                |
| 26 05 46 00-0152 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                      | 28,445.75                 | 3,629.65                |
| 26 05 46 00-0153 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                     | 30,538.64                 | 4,113.60                |
| 26 05 46 00-0154 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution .....                     | 32,765.72                 | 4,597.56                |
| <b>26 05 46 00-0155 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0125)</b> |                           |                         |
| 26 05 46 00-0156 EA Ladder Clips.....   | 23.19                     |                         |
| 26 05 46 00-0157 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....                           | 173.97                    |                         |
| 26 05 46 00-0158 EA Ground Sleeve-2' At Ground Line.....  | 174.99                    |                         |
| <b>26 05 46 00-0159 Arms With Baseplates And Endplates (26 05 46 00-0125)</b>                               |                           |                         |
| 26 05 46 00-0160 EA 4' Arm With Baseplate And Endplate .....  | 907.57                    | 167.43                  |
| 26 05 46 00-0161 EA 5' Arm With Baseplate And Endplate .....  | 985.23                    | 167.43                  |
| 26 05 46 00-0162 EA 6' Arm With Baseplate And Endplate .....  | 1,231.62                  | 251.15                  |
| 26 05 46 00-0163 EA 7' Arm With Baseplate And Endplate .....  | 1,299.54                  | 251.15                  |
| 26 05 46 00-0164 EA 8' Arm With Baseplate And Endplate .....  | 1,543.38                  | 334.87                  |
| 26 05 46 00-0165 EA 9' Arm With Baseplate And Endplate .....  | 1,620.99                  | 334.87                  |
| 26 05 46 00-0166 EA 10' Arm With Baseplate And Endplate .....   | 2,147.61                  | 418.58                  |
| 26 05 46 00-0167 EA 11' Arm With Baseplate And Endplate.....  | 2,234.74                  | 418.58                  |
| <b>26 05 46 00-0168 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0125)</b>                         |                           |                         |
| 26 05 46 00-0169 EA 15,000 LB Standard Vangs Load Bearing At Any Angle .....                                | 398.91                    | 167.43                  |
| 26 05 46 00-0170 EA 30,000 LB Standard Vangs Load Bearing At Any Angle .....                                | 446.49                    | 167.43                  |
| 26 05 46 00-0171 EA 45,000 LB Standard Vangs Load Bearing At Any Angle .....                                | 511.54                    | 167.43                  |
| <b>26 05 46 00-0172 Armless Construction Brackets (26 05 46 00-0125)</b>                                    |                           |                         |
| <b>26 05 46 00-0173 Verticals Insulator And Equipment Bracket (26 05 46 00-0172)</b>                        |                           |                         |
| 26 05 46 00-0174 EA 7" 1 Position Vertical Insulation And Equipment Bracket.....                            | 406.67                    | 167.43                  |
| 26 05 46 00-0175 EA 12" 1 Position Vertical Insulation And Equipment Bracket .....                          | 436.71                    | 167.43                  |
| 26 05 46 00-0176 EA 12" 3 Position Vertical Insulation And Equipment Bracket .....                          | 485.51                    | 167.43                  |
| 26 05 46 00-0177 EA 18" 1 Position Vertical Insulation And Equipment Bracket .....                          | 684.90                    | 251.15                  |
| 26 05 46 00-0178 EA 18" 3 Position Vertical Insulation And Equipment Bracket.....                           | 713.40                    | 251.15                  |
| <b>26 05 46 00-0179 Horizontal And Multiple Insulator Brackets (26 05 46 00-0172)</b>                       |                           |                         |
| 26 05 46 00-0180 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets .....             | 383.28                    | 167.43                  |
| 26 05 46 00-0181 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets .....                 | 446.40                    | 167.43                  |
| 26 05 46 00-0182 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets .....                 | 654.33                    | 251.15                  |
| 26 05 46 00-0183 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets .....                | 803.30                    | 251.15                  |
| 26 05 46 00-0184 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets .....                | 1,032.78                  | 334.87                  |
| 26 05 46 00-0185 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets .....                | 1,111.84                  | 334.87                  |
| <b>26 05 46 00-0186 Pole Top Bracket And Pins (26 05 46 00-0172)</b>  |                           |                         |
| 26 05 46 00-0187 EA Pole Top Pin - 5".....  | 392.44                    | 167.43                  |
| 26 05 46 00-0188 EA Pole Top Bracket - 5".....  | 407.77                    | 167.43                  |
| <b>26 05 46 00-0189 Angle Pins (26 05 46 00-0172)</b>   |                           |                         |
| 26 05 46 00-0190 EA Angle Pin - 25 Degree, 6" .....   | 390.37                    | 167.43                  |
| 26 05 46 00-0191 EA Angle Pin - 25 Degree, 7 1/4" .....   | 440.14                    | 167.43                  |
| <b>26 05 46 00-0192 Static And Neutral Wire Brackets (26 05 46 00-0172)</b>                                 |                           |                         |
| 26 05 46 00-0193 EA Neutral Wire Extension Bracket.....   | 407.18                    | 167.43                  |
| 26 05 46 00-0194 EA Static Wire Support Bracket.....  | 412.36                    | 167.43                  |
| <b>26 05 46 00-0195 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0172)</b>                         |                           |                         |
| 26 05 46 00-0196 EA Cutout And Arrestor, With Mounting Bracket .....  | 369.38                    | 167.43                  |
| 26 05 46 00-0197 EA Equipment Mounting T Bracket.....   | 391.97                    | 167.43                  |
| 26 05 46 00-0198 EA 15 KV Cutout .....  | 495.35                    |                         |
| 26 05 46 00-0199 EA 9/10 KV Arrestor .....  | 463.58                    | 167.43                  |
| <b>26 05 46 00-0200 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0172)</b>                |                           |                         |
| 26 05 46 00-0201 EA Parallel Cable Spacer .....   | 444.39                    | 167.43                  |
| 26 05 46 00-0202 EA Conduit Standoff Support Bracket .....  | 427.85                    | 167.43                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 05 46 00-0203 EA Three Transformer Pole Mounted Cluster Bracket .....  | 1,001.64                  | 167.43                  |
| <b>26 05 46 00-0204 15 KV, 200 Amperes, Solenoid Operated High Voltage Switch</b> <small>(26 05 46 00-0172)</small> |                           |                         |
| <small>Note: Includes pole mounting bracket.</small>  |                           |                         |
| 26 05 46 00-0205 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket .....   | 2,237.04                  | 418.58                  |
| <b>26 05 46 00-0206 Octagonal Tapered</b> <small>(26 05 46 00-0125)</small>   |                           |                         |
| 26 05 46 00-0207 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 8,628.61                  | 1,004.60                |
| 26 05 46 00-0208 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 9,514.19                  | 1,088.32                |
| 26 05 46 00-0209 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 10,523.73                 | 1,172.03                |
| 26 05 46 00-0210 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 11,582.80                 | 1,423.19                |
| 26 05 46 00-0211 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 15,289.75                 | 1,506.90                |
| 26 05 46 00-0212 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 17,021.14                 | 1,895.48                |
| 26 05 46 00-0213 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 19,703.15                 | 2,016.47                |
| 26 05 46 00-0214 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 21,236.25                 | 2,419.76                |
| 26 05 46 00-0215 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 22,897.06                 | 2,581.09                |
| 26 05 46 00-0216 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 24,261.03                 | 2,903.72                |
| 26 05 46 00-0217 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 27,520.23                 | 3,065.04                |
| 26 05 46 00-0218 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution .....                             | 29,263.50                 | 3,629.65                |
| 26 05 46 00-0219 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution .....                            | 31,396.50                 | 3,871.63                |
| 26 05 46 00-0220 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution .....                            | 33,668.14                 | 4,355.58                |
| <b>26 05 46 00-0221 Removal And Relocation Of Steel Service Poles</b> <small>(26 05 46 00-0125)</small>             |                           |                         |
| 26 05 46 00-0222 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60' .....                         | 58.59                     |                         |
| <b>26 05 46 00-0223 Special Steel Bases For Poles</b> <small>(26 05 46 00-0125)</small>                             |                           |                         |
| 26 05 46 00-0224 EA Spin-In Steel Base For Poles .....  | 325.12                    |                         |
| 26 05 46 00-0225 EA Series 3, 25' Pole And less .....   | 358.38                    | 83.71                   |
| 26 05 46 00-0226 EA Series 4, 40' Pole And less .....   | 425.94                    | 96.27                   |
| 26 05 46 00-0227 EA Series 5, 50' Pole And less .....   | 485.12                    | 104.65                  |
| <b>26 05 53 Identification for Electrical Systems</b> <small>(26 05)</small>  |                           |                         |
| <b>26 05 53 00-0001 Conduit Markers Pressure-Sensitive</b> <small>(26 05 53)</small>                                |                           |                         |
| <small>Note: Stick-on, includes arrow tape.</small>   |                           |                         |
| 26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....                                  | 16.48                     |                         |
| 26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on .....                                  | 17.25                     |                         |
| 26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 18.80                     |                         |
| 26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on .....                                | 19.10                     |                         |
| 26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....                                | 19.41                     |                         |
| 26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 19.87                     |                         |
| 26 05 53 00-0008 EA 2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....                                | 22.85                     |                         |
| 26 05 53 00-0009 EA 3" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 23.46                     |                         |
| 26 05 53 00-0010 EA 3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....                                | 23.92                     |                         |
| 26 05 53 00-0011 EA 4" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 24.40                     |                         |
| 26 05 53 00-0012 EA 4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....                                | 25.36                     |                         |
| 26 05 53 00-0013 EA 5" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 26.39                     |                         |
| 26 05 53 00-0014 EA 6" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 27.30                     |                         |
| 26 05 53 00-0015 EA 7" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 28.21                     |                         |
| 26 05 53 00-0016 EA 8" Outside Diameter Pressure Sensitive Marker Stick-on .....                                    | 30.68                     |                         |
| 26 05 53 00-0017 EA 10" Outside Diameter Pressure Sensitive Marker Stick-on .....                                   | 32.37                     |                         |
| <b>26 05 53 00-0018 Labeling Existing Electrical Wires</b> <small>(26 05 53)</small>                                |                           |                         |
| <small>Note: Self-adhesive vinyl coated white cloth</small>   |                           |                         |
| 26 05 53 00-0019 EA Labeling Existing Wire .....  | 4.72                      |                         |
| <b>26 05 83 Wiring Connections</b> <small>(26 05)</small>   |                           |                         |
| <b>26 05 83 00-0001 Tape Wrapped Compression Connectors</b> <small>(26 05 83)</small>                               |                           |                         |
| 26 05 83 00-0002 EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                      | 19.94                     | 6.92                    |
| 26 05 83 00-0003 EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                      | 21.81                     | 7.69                    |
| 26 05 83 00-0004 EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                      | 23.50                     | 8.46                    |
| 26 05 83 00-0005 EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 27.06                     | 9.23                    |
| 26 05 83 00-0006 EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 29.12                     | 10.00                   |
| 26 05 83 00-0007 EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 32.24                     | 10.77                   |
| 26 05 83 00-0008 EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 34.53                     | 11.54                   |
| 26 05 83 00-0009 EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 37.58                     | 12.30                   |
| 26 05 83 00-0010 EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 41.62                     | 13.84                   |
| 26 05 83 00-0011 EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 43.68                     | 14.62                   |
| 26 05 83 00-0012 EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 48.40                     | 15.39                   |
| 26 05 83 00-0013 EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 52.55                     | 16.15                   |
| 26 05 83 00-0014 EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                     | 58.64                     | 17.69                   |
| 26 05 83 00-0015 EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt .....                   | 67.90                     | 19.99                   |

**26 Electrical****26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|--|------------------------|----------------------|
| <b>26 05 83 00-0016 One Hole Compression Lugs (26 05 83)</b>                          |     |     |  |                        |                      |
| 26 05 83 00-0017  | EA  |     | #22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                 | 26.37                  | 19.99                |
| 26 05 83 00-0018  | EA  |     | #16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                 | 26.54                  | 19.99                |
| 26 05 83 00-0019  | EA  |     | #12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                 | 30.02                  | 21.54                |
| 26 05 83 00-0020  | EA  |     | #8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                     | 37.00                  | 23.84                |
| 26 05 83 00-0021  | EA  |     | #6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                     | 52.04                  | 30.76                |
| 26 05 83 00-0022  | EA  |     | #4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                     | 61.05                  | 30.76                |
| 26 05 83 00-0023  | EA  |     | #2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                     | 70.24                  | 30.76                |
| 26 05 83 00-0024  | EA  |     | 1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 86.61                  | 46.15                |
| 26 05 83 00-0025  | EA  |     | 2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 101.58                 | 46.15                |
| 26 05 83 00-0026  | EA  |     | 3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 118.88                 | 46.15                |
| 26 05 83 00-0027  | EA  |     | 4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 143.38                 | 61.53                |
| 26 05 83 00-0028  | EA  |     | 250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 170.05                 | 92.29                |
| 26 05 83 00-0029  | EA  |     | 300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 194.52                 | 92.29                |
| 26 05 83 00-0030  | EA  |     | 350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 209.08                 | 92.29                |
| 26 05 83 00-0031  | EA  |     | 400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 227.64                 | 107.68               |
| 26 05 83 00-0032  | EA  |     | 500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 248.84                 | 107.68               |
| 26 05 83 00-0033  | EA  |     | 750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                    | 270.46                 | 123.05               |
| 26 05 83 00-0034  | EA  |     | 1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....                                  | 317.51                 | 138.44               |
| <b>26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)</b>                          |     |     |  |                        |                      |
| 26 05 83 00-0036  | EA  |     | #8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                     | 53.76                  | 26.15                |
| 26 05 83 00-0037  | EA  |     | #6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                     | 57.68                  | 27.84                |
| 26 05 83 00-0038  | EA  |     | #4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                     | 60.85                  | 27.84                |
| 26 05 83 00-0039  | EA  |     | #2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                     | 70.01                  | 32.00                |
| 26 05 83 00-0040  | EA  |     | 1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 86.36                  | 39.99                |
| 26 05 83 00-0041  | EA  |     | 2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 101.33                 | 47.53                |
| 26 05 83 00-0042  | EA  |     | 3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 118.60                 | 55.69                |
| 26 05 83 00-0043  | EA  |     | 4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 143.06                 | 67.53                |
| 26 05 83 00-0044  | EA  |     | 250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 169.68                 | 80.14                |
| 26 05 83 00-0045  | EA  |     | 300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 194.08                 | 91.52                |
| 26 05 83 00-0046  | EA  |     | 350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 208.63                 | 98.60                |
| 26 05 83 00-0047  | EA  |     | 400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 227.11                 | 106.76               |
| 26 05 83 00-0048  | EA  |     | 500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 248.24                 | 116.59               |
| 26 05 83 00-0049  | EA  |     | 750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                    | 271.14                 | 126.44               |
| 26 05 83 00-0050  | EA  |     | 1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....                                  | 335.19                 | 153.82               |
| <b>26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)</b>                 |     |     |  |                        |                      |
| 26 05 83 00-0052  | EA  |     | #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                               | 80.58                  | 61.53                |
| 26 05 83 00-0053  | EA  |     | #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                               | 88.60                  | 66.15                |
| 26 05 83 00-0054  | EA  |     | #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                               | 100.98                 | 69.22                |
| 26 05 83 00-0055  | EA  |     | #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                               | 117.11                 | 76.91                |
| 26 05 83 00-0056  | EA  |     | 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 138.13                 | 84.60                |
| 26 05 83 00-0057  | EA  |     | 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 154.45                 | 92.29                |
| 26 05 83 00-0058  | EA  |     | 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 192.92                 | 99.98                |
| 26 05 83 00-0059  | EA  |     | 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 206.95                 | 107.68               |
| 26 05 83 00-0060  | EA  |     | 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 218.07                 | 115.36               |
| 26 05 83 00-0061  | EA  |     | 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 248.21                 | 126.90               |
| 26 05 83 00-0062  | EA  |     | 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 278.34                 | 184.58               |
| 26 05 83 00-0063  | EA  |     | 400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 304.66                 | 153.82               |
| 26 05 83 00-0064  | EA  |     | 500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 330.99                 | 207.66               |
| 26 05 83 00-0065  | EA  |     | 750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                              | 366.18                 | 215.35               |
| 26 05 83 00-0066  | EA  |     | 1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....                            | 413.60                 | 230.73               |
| <b>26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)</b> |     |     |  |                        |                      |
| 26 05 83 00-0068  | EA  |     | #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....          | 131.73                 | 61.53                |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 32.30                  |                      |
| 26 05 83 00-0069  | EA  |     | #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....                | 146.73                 | 61.53                |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 36.62                  |                      |
| 26 05 83 00-0070  | EA  |     | 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....               | 203.30                 | 92.29                |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 51.27                  |                      |
| 26 05 83 00-0071  | EA  |     | 4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....               | 231.04                 | 92.29                |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 59.16                  |                      |
| 26 05 83 00-0072  | EA  |     | 300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....               | 276.24                 | 115.36               |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 69.92                  |                      |
| 26 05 83 00-0073  | EA  |     | 500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....               | 385.63                 | 153.82               |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 96.14                  |                      |
| <b>26 05 83 00-0074 Terminal Blocks (26 05 83)</b>                                    |     |     |  |                        |                      |
|   |     |     | Note: Labor excludes wire termination.   |                        |                      |
| 26 05 83 00-0075  | EA  |     | Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt..... | 1,336.02               | 569.14               |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 341.83                 |                      |
| 26 05 83 00-0076  | EA  |     | #22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....                                       | 332.65                 | 77.01                |
|   |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 46.65                  |                      |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
|                         |       |     |     | 26 05 83 00-0077 EA #8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block ..... 365.99                     |                        | 77.01                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 47.15  |                        |                      |
| <b>26 05 83 00-0078</b> |       |     |     | <b>Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small></b>                                   |                        |                      |
|                         |       |     |     | 26 05 83 00-0079 EA #8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 53.75    |                        | 27.84                |
|                         |       |     |     | 26 05 83 00-0080 EA #6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 57.69    |                        | 27.84                |
|                         |       |     |     | 26 05 83 00-0081 EA #4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 60.85    |                        | 27.84                |
|                         |       |     |     | 26 05 83 00-0082 EA #2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 70.01    |                        | 32.00                |
|                         |       |     |     | 26 05 83 00-0083 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 86.36   |                        | 39.99                |
|                         |       |     |     | 26 05 83 00-0084 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 101.33  |                        | 47.53                |
|                         |       |     |     | 26 05 83 00-0085 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 118.60  |                        | 55.69                |
|                         |       |     |     | 26 05 83 00-0086 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 143.06  |                        | 67.53                |
|                         |       |     |     | 26 05 83 00-0087 EA 250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 169.68  |                        | 80.14                |
|                         |       |     |     | 26 05 83 00-0088 EA 300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 194.08  |                        | 91.52                |
|                         |       |     |     | 26 05 83 00-0089 EA 350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 208.63  |                        | 98.60                |
|                         |       |     |     | 26 05 83 00-0090 EA 400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 227.10  |                        | 106.76               |
|                         |       |     |     | 26 05 83 00-0091 EA 500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 248.24  |                        | 116.59               |
|                         |       |     |     | 26 05 83 00-0092 EA 750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap ..... 248.78  |                        | 116.59               |
|                         |       |     |     | 26 05 83 00-0093 EA #8 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 53.75                     |                        | 27.84                |
|                         |       |     |     | 26 05 83 00-0094 EA #6 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 57.69                     |                        | 27.84                |
|                         |       |     |     | 26 05 83 00-0095 EA #4 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 60.85                     |                        | 27.84                |
|                         |       |     |     | 26 05 83 00-0096 EA #2 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 70.01                     |                        | 32.00                |
|                         |       |     |     | 26 05 83 00-0097 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 86.36                    |                        | 39.99                |
|                         |       |     |     | 26 05 83 00-0098 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 101.33                   |                        | 47.53                |
|                         |       |     |     | 26 05 83 00-0099 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 118.60                   |                        | 55.69                |
|                         |       |     |     | 26 05 83 00-0100 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover ..... 143.06                   |                        | 67.53                |
|                         |       |     |     | 26 05 83 00-0101 EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover ..... 169.68                   |                        | 80.14                |
|                         |       |     |     | 26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover ..... 194.08                   |                        | 91.52                |
|                         |       |     |     | 26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover ..... 208.63                   |                        | 98.60                |
|                         |       |     |     | 26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover ..... 227.10                   |                        | 106.76               |
|                         |       |     |     | 26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover ..... 248.24                   |                        | 116.59               |
|                         |       |     |     | 26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover ..... 248.78                   |                        | 116.59               |
| <b>26 05 83 00-0107</b> |       |     |     | <b>Copper Mechanical Lugs <small>(26 05 83)</small></b>  |                        |                      |
|                         |       |     |     | 26 05 83 00-0108 EA #8 Copper Mechanical Lugs ..... 42.66  |                        | 19.22                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 11.54  |                        |                      |
|                         |       |     |     | 26 05 83 00-0109 EA #6 Copper Mechanical Lugs ..... 51.25  |                        | 23.23                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 13.93  |                        |                      |
|                         |       |     |     | 26 05 83 00-0110 EA #4 Copper Mechanical Lugs ..... 59.25  |                        | 26.92                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 16.15  |                        |                      |
|                         |       |     |     | 26 05 83 00-0111 EA #2 Copper Mechanical Lugs ..... 77.18  |                        | 34.30                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 20.60  |                        |                      |
|                         |       |     |     | 26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs ..... 103.92  |                        | 46.15                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 27.69  |                        |                      |
|                         |       |     |     | 26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs ..... 123.33  |                        | 53.53                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 32.16  |                        |                      |
|                         |       |     |     | 26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs ..... 143.76  |                        | 61.53                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 36.92  |                        |                      |
|                         |       |     |     | 26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs ..... 163.24  |                        | 69.07                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 41.40  |                        |                      |
|                         |       |     |     | 26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs ..... 186.10  |                        | 76.91                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 46.15  |                        |                      |
|                         |       |     |     | 26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs ..... 208.59  |                        | 84.60                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 50.78  |                        |                      |
|                         |       |     |     | 26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs ..... 230.97  |                        | 92.29                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 55.37  |                        |                      |
|                         |       |     |     | 26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs ..... 253.20  |                        | 99.98                |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 59.94  |                        |                      |
|                         |       |     |     | 26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs ..... 275.80  |                        | 107.68               |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 64.60  |                        |                      |
|                         |       |     |     | 26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs ..... 312.83  |                        | 122.59               |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 73.60  |                        |                      |
|                         |       |     |     | 26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs ..... 354.01  |                        | 138.44               |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 83.06  |                        |                      |
| <b>26 05 83 00-0123</b> |       |     |     | <b>Gel Connectors <small>(26 05 83)</small></b>  |                        |                      |
|                         |       |     |     | 26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit ..... 70.31                            |                        |                      |
|                         |       |     |     | Note: Kit contains connector, gel filled cap and cap clamp.  |                        |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 4.62   |                        |                      |
|                         |       |     |     | 26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit ..... 68.56                                       |                        |                      |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 5.55   |                        |                      |
| <b>26 05 83 00-0126</b> |       |     |     | <b>Other Connections <small>(26 05 83)</small></b>   |                        |                      |
|                         |       |     |     | 26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape ..... 15.17 |                        | 7.02                 |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 4.22   |                        |                      |
|                         |       |     |     | 26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape ..... 15.28 |                        | 7.02                 |
|                         |       |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> ..... 4.22   |                        |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 15.39<br>4.22             | 7.02                    |
| <b>26 05 83 00-0130 Motor/Equipment Connections And Terminations</b> <small>(26 05 83)</small><br>Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors. See CSI section 23 05 13 00-0000 for motors, 23 05 13 00-0216 for motor mounting. |                           |                         |
| <b>26 05 83 00-0131 AC Single Phase, 230 Volt</b> <small>(26 05 83 00-0130)</small>  |                           |                         |
| 26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....  | 91.10                     | 38.46                   |
| 26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 90.62                     | 38.46                   |
| 26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 106.57                    | 46.15                   |
| 26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 130.70                    | 57.68                   |
| 26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 131.65                    | 57.68                   |
| 26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 131.84                    | 57.68                   |
| 26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 134.99                    | 57.68                   |
| 26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 173.82                    | 76.91                   |
| 26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....   | 177.34                    | 76.91                   |
| 26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....  | 223.70                    | 96.14                   |
| <b>26 05 83 00-0142 AC Three Phase, 230 Volt</b> <small>(26 05 83 00-0130)</small>   |                           |                         |
| 26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 90.62                     | 38.46                   |
| 26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 106.57                    | 46.15                   |
| 26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 130.70                    | 57.68                   |
| 26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 131.65                    | 57.68                   |
| 26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 131.84                    | 57.68                   |
| 26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 134.99                    | 57.68                   |
| 26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 173.82                    | 76.91                   |
| 26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 177.34                    | 76.91                   |
| 26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 223.70                    | 96.14                   |
| 26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 228.46                    | 96.14                   |
| 26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 285.67                    | 115.36                  |
| 26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 292.92                    | 115.36                  |
| 26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 398.11                    | 153.82                  |
| 26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 498.82                    | 192.28                  |
| 26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 589.65                    | 230.73                  |
| 26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 699.48                    | 269.19                  |
| 26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 803.25                    | 307.65                  |
| 26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 998.12                    | 384.55                  |
| 26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 1,180.27                  | 457.62                  |
| 26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 1,394.31                  | 533.76                  |
| 26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 2,004.23                  | 800.49                  |
| <b>26 05 83 00-0164 AC Three Phase, 460 Volt</b> <small>(26 05 83 00-0130)</small>   |                           |                         |
| 26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 90.62                     | 38.46                   |
| 26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 106.57                    | 46.15                   |
| 26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 130.70                    | 57.68                   |
| 26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 131.65                    | 57.68                   |
| 26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 131.84                    | 57.68                   |
| 26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 134.99                    | 57.68                   |
| 26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 173.82                    | 76.91                   |
| 26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 177.34                    | 76.91                   |
| 26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 223.70                    | 96.14                   |
| 26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 228.46                    | 96.14                   |
| 26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 285.68                    | 115.36                  |
| 26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 292.91                    | 115.36                  |
| 26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 398.11                    | 153.82                  |
| 26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 499.28                    | 192.59                  |
| 26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 589.65                    | 230.73                  |
| 26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 699.48                    | 269.19                  |
| 26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....  | 803.25                    | 307.65                  |
| 26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 998.12                    | 384.55                  |
| 26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 1,180.71                  | 457.77                  |
| 26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 1,394.90                  | 534.07                  |
| 26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....   | 2,005.57                  | 801.11                  |
| <b>26 05 83 00-0186 AC Single Phase, 120 Volt</b> <small>(26 05 83 00-0130)</small>  |                           |                         |
| 26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....  | 91.10                     | 38.46                   |
| <b>26 05 83 00-0188 Motor Moisture Sensor</b> <small>(26 05 83 00-0130)</small>  |                           |                         |
| 26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding.....  | 1,186.87                  |                         |

## 26 09 Instrumentation and Control for Electrical Systems (26)



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

Note: Includes testing of new devices and certification.

**26 09 23 Lighting Control Devices** (26 09)

|  |               |        |
|--|---------------|--------|
| 26 09 23 00-0001 Lighting Contactors <small>(26 09 23)</small><br><small>Note: Up to 600 volt.</small>               |               |        |
| 26 09 23 00-0002 Electrically Held, Lighting Contactors <small>(26 09 23 00-0001)</small>                            |               |        |
| 26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>          |               |        |
| 26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>  |               |        |
| 26 09 23 00-0005 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 587.59        | 123.05 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>73.84</i>  |        |
| 26 09 23 00-0006 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 723.45        | 138.44 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>83.06</i>  |        |
| 26 09 23 00-0007 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 1,345.42      | 215.35 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>129.21</i> |        |
| 26 09 23 00-0008 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                | 2,086.54      | 292.26 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>175.36</i> |        |
| 26 09 23 00-0009 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                | 4,301.34      | 384.55 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>230.73</i> |        |
| 26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>  |               |        |
| 26 09 23 00-0011 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 663.47        | 138.44 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>83.06</i>  |        |
| 26 09 23 00-0012 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 793.62        | 153.82 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>92.30</i>  |        |
| 26 09 23 00-0013 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 1,459.49      | 246.12 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>147.67</i> |        |
| 26 09 23 00-0014 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                | 2,255.02      | 323.02 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>193.82</i> |        |
| 26 09 23 00-0015 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                | 4,619.36      | 423.01 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>253.81</i> |        |
| 26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>  |               |        |
| 26 09 23 00-0017 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 779.36        | 153.82 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>92.30</i>  |        |
| 26 09 23 00-0018 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 932.27        | 169.21 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>101.52</i> |        |
| 26 09 23 00-0019 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                 | 1,761.19      | 276.88 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>166.13</i> |        |
| 26 09 23 00-0020 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                | 2,690.87      | 353.79 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>212.27</i> |        |
| 26 09 23 00-0021 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....                | 5,881.18      | 461.46 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>276.88</i> |        |
| 26 09 23 00-0022 NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>         |               |        |
| 26 09 23 00-0023 2-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small> |               |        |
| 26 09 23 00-0024 EA 30 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....                | 943.97        | 138.44 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>83.06</i>  |        |
| 26 09 23 00-0025 EA 60 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....                | 1,892.84      | 215.35 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>129.21</i> |        |
| 26 09 23 00-0026 EA 100 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....               | 2,841.71      | 292.26 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>175.36</i> |        |
| 26 09 23 00-0027 3-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small> |               |        |
| 26 09 23 00-0028 EA 30 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....                | 1,339.20      | 153.82 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>92.30</i>  |        |
| 26 09 23 00-0029 EA 60 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....                | 2,079.23      | 246.12 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>147.67</i> |        |
| 26 09 23 00-0030 EA 100 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....               | 3,132.01      | 323.02 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>193.82</i> |        |
| 26 09 23 00-0031 EA 200 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....               | 7,150.64      | 423.01 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>253.81</i> |        |
| 26 09 23 00-0032 4-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small> |               |        |
| 26 09 23 00-0033 EA 30 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....                | 1,271.94      | 169.21 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>101.52</i> |        |
| 26 09 23 00-0034 EA 60 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....                | 2,096.95      | 276.88 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>166.13</i> |        |
| 26 09 23 00-0035 EA 100 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....               | 2,860.42      | 353.79 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                        | <i>212.27</i> |        |
| 26 09 23 00-0036 NEMA 4 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>          |               |        |
| 26 09 23 00-0037 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0036)</small>  |               |        |



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 09 23 00-0038 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 950.60                    | 123.05                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 73.84                     |                         |
| 26 09 23 00-0039 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 1,204.73                  | 138.44                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 83.06                     |                         |
| 26 09 23 00-0040 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 2,305.17                  | 215.35                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 129.21                    |                         |
| 26 09 23 00-0041 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....           | 3,449.70                  | 292.26                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 175.36                    |                         |
| 26 09 23 00-0042 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....           | 6,628.01                  | 384.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 230.73                    |                         |
| <b>26 09 23 00-0043 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)</b>     |                           |                         |
| 26 09 23 00-0044 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 988.54                    | 138.44                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 83.06                     |                         |
| 26 09 23 00-0045 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 1,274.91                  | 153.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 92.30                     |                         |
| 26 09 23 00-0046 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 2,422.05                  | 246.12                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 147.67                    |                         |
| 26 09 23 00-0047 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....           | 3,617.25                  | 323.02                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 193.82                    |                         |
| 26 09 23 00-0048 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....           | 6,945.09                  | 423.01                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 253.81                    |                         |
| <b>26 09 23 00-0049 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)</b>     |                           |                         |
| 26 09 23 00-0050 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 1,069.56                  | 153.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 92.30                     |                         |
| 26 09 23 00-0051 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 1,413.56                  | 169.21                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 101.52                    |                         |
| 26 09 23 00-0052 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....            | 3,098.09                  | 276.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 166.13                    |                         |
| 26 09 23 00-0053 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....           | 4,427.43                  | 353.79                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 212.27                    |                         |
| 26 09 23 00-0054 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....           | 9,238.90                  | 461.46                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 276.88                    |                         |
| <b>26 09 23 00-0055 NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)</b>         |                           |                         |
| <b>26 09 23 00-0056 2-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)</b> |                           |                         |
| 26 09 23 00-0057 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....        | 2,799.73                  | 215.35                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 129.21                    |                         |
| 26 09 23 00-0058 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....       | 3,968.84                  | 292.26                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 175.36                    |                         |
| 26 09 23 00-0059 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....       | 3,756.07                  | 384.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 230.73                    |                         |
| <b>26 09 23 00-0060 3-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)</b> |                           |                         |
| 26 09 23 00-0061 EA 60 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....        | 2,997.06                  | 246.12                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 147.67                    |                         |
| 26 09 23 00-0062 EA 100 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....       | 4,224.38                  | 323.02                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 193.82                    |                         |
| <b>26 09 23 00-0063 4-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)</b> |                           |                         |
| 26 09 23 00-0064 EA 60 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....        | 1,594.39                  | 276.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 166.13                    |                         |
| 26 09 23 00-0065 EA 100 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor.....       | 2,194.18                  | 353.79                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 212.27                    |                         |
| <b>26 09 23 00-0066 Mechanically Held, Lighting Contactors (26 09 23 00-0001)</b>                               |                           |                         |
| <b>26 09 23 00-0067 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)</b>             |                           |                         |
| <b>26 09 23 00-0068 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)</b>     |                           |                         |
| 26 09 23 00-0069 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....            | 852.16                    | 123.05                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 73.84                     |                         |
| 26 09 23 00-0070 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....            | 969.25                    | 138.44                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 83.06                     |                         |
| 26 09 23 00-0071 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....            | 1,823.89                  | 215.35                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 129.21                    |                         |
| 26 09 23 00-0072 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....           | 2,539.67                  | 292.26                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 175.36                    |                         |
| 26 09 23 00-0073 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....           | 5,772.39                  | 384.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                   | 230.73                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 09 23 00-0074</b> <b>3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0067)</small>     |                           |                         |
| 26 09 23 00-0075    EA    20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                           | 912.66                    | 138.44                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 83.06                     |                         |
| 26 09 23 00-0076    EA    30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,041.30                  | 153.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.30                     |                         |
| 26 09 23 00-0077    EA    60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,940.77                  | 246.12                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 147.67                    |                         |
| 26 09 23 00-0078    EA    100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                          | 2,709.09                  | 323.02                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 193.82                    |                         |
| 26 09 23 00-0079    EA    200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                          | 6,489.14                  | 423.01                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 253.81                    |                         |
| <b>26 09 23 00-0080</b> <b>4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0067)</small>     |                           |                         |
| 26 09 23 00-0081    EA    20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                           | 986.50                    | 153.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.30                     |                         |
| 26 09 23 00-0082    EA    30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,111.47                  | 169.21                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 101.52                    |                         |
| 26 09 23 00-0083    EA    60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                           | 2,267.80                  | 276.88                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 166.13                    |                         |
| 26 09 23 00-0084    EA    100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                          | 3,172.15                  | 353.79                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 212.27                    |                         |
| 26 09 23 00-0085    EA    200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor .....                          | 7,821.32                  | 461.46                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 276.88                    |                         |
| <b>26 09 23 00-0086</b> <b>NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0066)</small>             |                           |                         |
| <b>26 09 23 00-0087</b> <b>2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0086)</small>     |                           |                         |
| 26 09 23 00-0088    EA    20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,261.31                  | 123.05                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 73.84                     |                         |
| 26 09 23 00-0089    EA    30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,450.54                  | 138.44                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 83.06                     |                         |
| 26 09 23 00-0090    EA    60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 2,786.45                  | 215.35                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 129.21                    |                         |
| 26 09 23 00-0091    EA    100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                          | 3,902.84                  | 292.26                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 175.36                    |                         |
| 26 09 23 00-0092    EA    200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                          | 8,097.19                  | 384.55                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 230.73                    |                         |
| <b>26 09 23 00-0093</b> <b>3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0086)</small>     |                           |                         |
| 26 09 23 00-0094    EA    20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,335.14                  | 138.44                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 83.06                     |                         |
| 26 09 23 00-0095    EA    30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,522.59                  | 153.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.30                     |                         |
| 26 09 23 00-0096    EA    60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 2,903.34                  | 246.12                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 147.67                    |                         |
| 26 09 23 00-0097    EA    100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                          | 4,073.20                  | 323.02                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 193.82                    |                         |
| 26 09 23 00-0098    EA    200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                          | 8,815.81                  | 423.01                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 253.81                    |                         |
| <b>26 09 23 00-0099</b> <b>4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0086)</small>     |                           |                         |
| 26 09 23 00-0100    EA    20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,414.11                  | 153.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.30                     |                         |
| 26 09 23 00-0101    EA    30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 1,592.75                  | 169.21                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 101.52                    |                         |
| 26 09 23 00-0102    EA    60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                           | 3,604.70                  | 276.88                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 166.13                    |                         |
| 26 09 23 00-0103    EA    100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                          | 4,908.71                  | 353.79                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 212.27                    |                         |
| 26 09 23 00-0104    EA    200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor .....                          | 11,110.56                 | 461.46                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 276.88                    |                         |
| <b>26 09 23 00-0105</b> <b>NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0066)</small>         |                           |                         |
| <b>26 09 23 00-0106</b> <b>2-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors</b> <small>(26 09 23 00-0105)</small> |                           |                         |
| 26 09 23 00-0107    EA    30 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor .....                       | 807.35                    | 138.44                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 83.06                     |                         |
| 26 09 23 00-0108    EA    60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor .....                       | 1,477.67                  | 246.12                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 129.21                    |                         |
| 26 09 23 00-0109    EA    100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor .....                      | 2,013.05                  | 292.26                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 175.36                    |                         |
| 26 09 23 00-0110    EA    200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor .....                      | 4,582.98                  | 384.55                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 230.73                    |                         |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 09 23 00-0111 |     | <b>3-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors</b> <sup>(26 09 23 00-0105)</sup>   |                           |                         |
| 26 09 23 00-0112 | EA  | 30 Amperes, 3 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                       | 861.97<br>92.30           | 153.82                  |
| 26 09 23 00-0113 |     | <b>4-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors</b> <sup>(26 09 23 00-0105)</sup>   |                           |                         |
| 26 09 23 00-0114 | EA  | 200 Amperes, 4 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 6,162.42<br>276.88        | 461.46                  |
| 26 09 23 00-0115 |     | <b>Combination Lighting Contactors</b> <sup>(26 09 23)</sup><br>Note: Up to 600 volt.   |                           |                         |
| 26 09 23 00-0116 |     | <b>Electrically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0115)</sup>   |                           |                         |
| 26 09 23 00-0117 |     | <b>NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0116)</sup>   |                           |                         |
| 26 09 23 00-0118 |     | <b>3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0117)</sup>   |                           |                         |
| 26 09 23 00-0119 | EA  | 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,626.05<br>101.52        | 169.21                  |
| 26 09 23 00-0120 | EA  | 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,551.02<br>162.44        | 270.72                  |
| 26 09 23 00-0121 | EA  | 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4,096.53<br>213.20        | 355.33                  |
| 26 09 23 00-0122 | EA  | 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7,427.94<br>279.19        | 465.31                  |
| 26 09 23 00-0123 |     | <b>NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0116)</sup>   |                           |                         |
| 26 09 23 00-0124 |     | <b>3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0123)</sup>   |                           |                         |
| 26 09 23 00-0125 | EA  | 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,908.07<br>101.52        | 169.21                  |
| 26 09 23 00-0126 | EA  | 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 4,526.81<br>162.44        | 270.72                  |
| 26 09 23 00-0127 | EA  | 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7,544.32<br>213.20        | 355.33                  |
| 26 09 23 00-0128 | EA  | 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11,838.30<br>279.19       | 465.31                  |
| 26 09 23 00-0129 |     | <b>Mechanically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0115)</sup>   |                           |                         |
| 26 09 23 00-0130 |     | <b>NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0129)</sup>   |                           |                         |
| 26 09 23 00-0131 |     | <b>3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0130)</sup>   |                           |                         |
| 26 09 23 00-0132 | EA  | 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,772.41<br>101.52        | 169.21                  |
| 26 09 23 00-0133 | EA  | 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,057.63<br>162.44        | 270.72                  |
| 26 09 23 00-0134 | EA  | 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4,576.41<br>213.20        | 355.33                  |
| 26 09 23 00-0135 | EA  | 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8,791.58<br>279.19        | 465.31                  |
| 26 09 23 00-0136 |     | <b>NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0129)</sup>   |                           |                         |
| 26 09 23 00-0137 |     | <b>3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors</b> <sup>(26 09 23 00-0136)</sup>   |                           |                         |
| 26 09 23 00-0138 | EA  | 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,055.83<br>101.52        | 169.21                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0139 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5,036.24<br>162.44        | 270.72                  |
| 26 09 23 00-0140 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8,025.60<br>213.20        | 355.33                  |
| 26 09 23 00-0141 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 13,201.94<br>279.19       | 465.31                  |
| <b>26 09 23 00-0142 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket</b> (26 09 23)  |                           |                         |
| 26 09 23 00-0143 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 157.77<br>24.04           | 39.99                   |
| 26 09 23 00-0144 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 170.64<br>24.04           | 39.99                   |
| <b>26 09 23 00-0145 Dimming Module System (Lutron Grafik Eye)</b> (26 09 23)   |                           |                         |
| 26 09 23 00-0146 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 1,802.22<br>92.30         | 153.82                  |
| 26 09 23 00-0147 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 2,309.81<br>92.30         | 153.82                  |
| 26 09 23 00-0148 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 2,826.46<br>92.30         | 153.82                  |
| <b>26 09 23 00-0149 Dimming Module Contol (Leviton)</b> (26 09 23)   |                           |                         |
| 26 09 23 00-0150 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 232.90<br>11.55           | 19.25                   |
| <b>26 09 23 00-0151 Light Control Panels</b> (26 09 23)  |                           |                         |
| <b>26 09 23 00-0152 Lighting Control Panels (Watt Stopper)</b> (26 09 23 00-0151)  |                           |                         |
| <b>26 09 23 00-0153 Lighting Control Panels (Watt Stopper)</b> (26 09 23 00-0152)  |                           |                         |
| 26 09 23 00-0154 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,907.72<br>129.38        | 215.62                  |
| 26 09 23 00-0155 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,804.21<br>138.62        | 231.03                  |
| 26 09 23 00-0156 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 2,014.02<br>138.62        | 231.03                  |
| 26 09 23 00-0157 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 2,952.98<br>138.62        | 231.03                  |
| 26 09 23 00-0158 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>       | 3,199.31<br>138.62        | 231.03                  |
| 26 09 23 00-0159 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,109.50<br>129.38        | 215.62                  |
| 26 09 23 00-0160 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,263.35<br>138.62        | 231.03                  |
| 26 09 23 00-0161 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | 2,509.44<br>138.62        | 231.03                  |
| 26 09 23 00-0162 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 3,051.42<br>138.62        | 231.03                  |
| 26 09 23 00-0163 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 3,297.73<br>138.62        | 231.03                  |
| <b>26 09 23 00-0164 Accessories For Lighting Control Panels (Watt Stopper)</b> (26 09 23 00-0152)  |                           |                         |
| 26 09 23 00-0165 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                 | 193.99<br>23.10           | 38.51                   |
| 26 09 23 00-0166 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 149.90<br>18.48           | 30.80                   |
| 26 09 23 00-0167 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 86.61<br>18.48            | 30.80                   |
| <b>26 09 23 00-0168 Lighting Control Panels (Synergy)</b> (26 09 23 00-0151)   |                           |                         |
| <b>26 09 23 00-0169 Lighting Control Panels (Synergy)</b> (26 09 23 00-0168)   |                           |                         |
| 26 09 23 00-0170 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,854.42<br>138.62        | 231.03                  |
| <b>26 09 23 00-0171 Accessories For Lighting Control Panels (Synergy)</b> (26 09 23 00-0168)   |                           |                         |
| 26 09 23 00-0172 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 692.55<br>23.10           | 38.51                   |
| 26 09 23 00-0173 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20) .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>             | 268.44<br>9.24            | 15.41                   |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0174 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                     | 158.04<br>13.86           | 23.10                   |
| <b>26 09 23 00-0175 Lighting Switching Panels (Lutron) (26 09 23 00-0151)</b>  |                           |                         |
| <b>26 09 23 00-0176 Lighting Switching Panels (Lutron) (26 09 23 00-0175)</b>  |                           |                         |
| 26 09 23 00-0177 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 2,340.69<br>138.62        | 231.03                  |
| 26 09 23 00-0178 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 3,179.98<br>147.86        | 246.44                  |
| 26 09 23 00-0179 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 4,138.81<br>157.10        | 261.83                  |
| <b>26 09 23 00-0180 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0151)</b>  |                           |                         |
| 26 09 23 00-0181 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,590.94<br>129.38        | 215.62                  |
| 26 09 23 00-0182 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,801.79<br>129.38        | 215.62                  |
| 26 09 23 00-0183 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z).....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,012.64<br>129.38        | 215.62                  |
| <b>26 09 23 00-0184 Power Filters (26 09 23 00-0151)</b>   |                           |                         |
| 26 09 23 00-0185 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure .....   | 41,093.21                 | 1,281.80                |
| 26 09 23 00-0186 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure .....   | 24,232.35                 | 557.29                  |
| <b>26 09 23 00-0187 Signal Filters (26 09 23 00-0151)</b>  |                           |                         |
| 26 09 23 00-0188 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case.....   | 19,026.76                 | 1,165.35                |
| 26 09 23 00-0189 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case.....  | 12,983.13                 | 712.19                  |
| 26 09 23 00-0190 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....  | 7,248.58                  | 413.47                  |
| 26 09 23 00-0191 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....   | 9,817.21                  | 413.47                  |
| <b>26 09 23 00-0192 Lighting Control Devices (Encelium) (26 09 23)</b>   |                           |                         |
| 26 09 23 00-0193 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120 Volt) With Polarix 3D™ (Encelium EN-ECU-G4-P3D).....<br>Note: Excludes GB II cable.   | 16,029.52                 | 154.02                  |
| 26 09 23 00-0194 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U).....<br>Note: Excludes GB II and Ethernet cable.  | 7,360.79                  | 154.02                  |
| 26 09 23 00-0195 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT).....<br>Note: Excludes GB II and Ethernet cable.   | 3,859.91                  | 154.02                  |
| 26 09 23 00-0196 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT).....<br>Note: Excludes GB II and Ethernet cable.   | 16,123.43                 | 154.02                  |
| 26 09 23 00-0197 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK).....<br>Note: Excludes GB II cable.   | 133.87                    | 19.25                   |
| 26 09 23 00-0198 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR).....<br>Note: Excludes GB II cable.  | 203.23                    | 19.25                   |
| 26 09 23 00-0199 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK).....<br>Note: Excludes GB II cable.   | 261.33                    | 38.51                   |
| 26 09 23 00-0200 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR).....<br>Note: Excludes GB II cable.  | 312.32                    | 38.51                   |
| 26 09 23 00-0201 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK).....<br>Note: Excludes GB II cable.  | 172.37                    | 38.51                   |
| 26 09 23 00-0202 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR).....<br>Note: Excludes GB II cable.   | 241.73                    | 38.51                   |
| 26 09 23 00-0203 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700).....<br>Note: Excludes cable.  | 601.10                    | 77.01                   |
| 26 09 23 00-0204 EA Rack Mounted, Wired Power Bar (Encelium PWR-700).....  | 458.61                    | 77.01                   |
| 26 09 23 00-0205 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800).....  | 816.81                    | 77.01                   |
| 26 09 23 00-0206 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....   | 297.58                    | 77.01                   |
| 26 09 23 00-0207 EA 4 Port, 10/100 VP, Dual WAN, Wired Router (Encelium RV042).....<br>Note: Excludes cable.   | 912.24                    | 77.01                   |
| 26 09 23 00-0208 EA Wired BACnet Interface (Encelium BIF-600).....<br>Note: Excludes cable.  | 9,378.73                  | 308.04                  |
| 26 09 23 00-0209 EA Wired AV Interface (Encelium EN-SW-AVINT).....<br>Note: Excludes cable.  | 6,886.48                  | 77.01                   |
| 26 09 23 00-0210 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH).....<br>Note: Includes white finish. Excludes GB II cable.  | 264.02                    | 19.25                   |
| 26 09 23 00-0211 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH).....<br>Note: Includes white finish. Excludes GB II cable.  | 320.37                    | 19.25                   |
| 26 09 23 00-0212 EA 3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH).....<br>Note: Includes white finish. Excludes GB II cable.   | 306.77                    | 19.25                   |
| 26 09 23 00-0213 EA 5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH).....<br>Note: Includes white finish. Excludes GB II cable.  | 320.37                    | 19.25                   |
| 26 09 23 00-0214 EA 6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH).....<br>Note: Includes white finish. Excludes GB II cable.   | 306.77                    | 19.25                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST   |
|--|---|---|
| 26 09 23 00-0215 EA Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT) .....<br>Note: Includes white finish. Excludes GB II cable.   | 233.56  | 19.25   |
| 26 09 23 00-0216 EA Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT).....<br>Note: Includes white finish. Excludes GB II cable.  | 320.37  | 19.25   |
| 26 09 23 00-0217 EA 3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT) .....<br>Note: Includes white finish. Excludes GB II cable.   | 306.77  | 19.25   |
| 26 09 23 00-0218 EA Wired Key Switch Controller (Encelium KSW-300).....<br>Note: Excludes GB II cable.   | 228.07  | 19.25   |
| 26 09 23 00-0219 EA Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH) .....<br>Note: Includes white finish.   | 101.26  | 19.25   |
| 26 09 23 00-0220 EA 1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2) .....<br>26 09 23 00-0221 EA 1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2) .....<br>26 09 23 00-0222 EA 5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2) .....<br>26 09 23 00-0223 EA 10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2) .....<br>26 09 23 00-0224 EA 15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2) .....<br>26 09 23 00-0225 EA 20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2) .....<br>26 09 23 00-0226 EA 25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2) .....<br>26 09 23 00-0227 EA 50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2) .....<br>26 09 23 00-0228 EA 1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2).....<br>26 09 23 00-0229 EA Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....<br>26 09 23 00-0230 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....<br>26 09 23 00-0231 EA Indoor Wired Photo Sensor (Encelium PHS-700).....<br>Note: Excludes GB II cable. | 91.27<br>91.87<br>96.67<br>101.41<br>107.07<br>112.17<br>118.44<br>146.77<br>862.98<br>220.81<br>1,109.76<br>670.40 | 38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>38.51<br>77.01 |
| 26 09 23 00-0232 EA Outdoor Wired Photo Sensor (Encelium PHS-800).....<br>Note: Excludes GB II cable.  | 670.40  | 77.01   |
| 26 09 23 00-0233 EA Skylight Wired Photo Sensor (Encelium PHS-900).....<br>Note: Excludes GB II cable.   | 670.40  | 77.01   |
| 26 09 23 00-0234 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450).....<br>Note: Excludes GB II cable.  | 363.34  | 77.01   |
| 26 09 23 00-0235 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500).....<br>Note: Excludes GB II cable.  | 353.04  | 77.01   |
| 26 09 23 00-0236 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00).....<br>Note: Excludes GB II cable.  | 359.91  | 77.01   |
| 26 09 23 00-0237 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....<br>Note: Excludes GB II cable.   | 394.23  | 77.01   |
| 26 09 23 00-0238 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG) .....<br>Note: Excludes GB II cable.  | 359.91  | 77.01   |
| 26 09 23 00-0239 EA 120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-<br>LNV).....<br>Note: Excludes GB II cable.  | 291.29  | 77.01   |
| 26 09 23 00-0240 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V).....<br>Note: Excludes GB II cable.   | 306.98  | 77.01   |
| 26 09 23 00-0241 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V).....<br>Note: Excludes GB II cable.  | 306.98  | 77.01   |
| 26 09 23 00-0242 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360) .....<br>Note: Excludes GB II cable.  | 176.25  | 77.01   |
| 26 09 23 00-0243 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24).....<br>Note: Excludes GB II cable.   | 368.40  | 77.01   |
| 26 09 23 00-0244 EA Hallway, Wired Occupancy Sensor (Encelium HW-13) .....<br>Note: Excludes GB II cable.  | 508.29  | 77.01   |
| 26 09 23 00-0245 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor<br>(Encelium SCM-0500) .....<br>Note: Excludes GB II cable.   | 449.13  | 77.01   |
| 26 09 23 00-0246 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor<br>(Encelium SCM-1000) .....<br>Note: Excludes GB II cable.   | 476.58  | 77.01   |
| 26 09 23 00-0247 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor<br>(Encelium SCM-2000) .....<br>Note: Excludes GB II cable.   | 490.32  | 77.01   |
| 26 09 23 00-0248 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-<br>1200) .....<br>Note: Excludes GB II cable.   | 445.70  | 77.01   |
| 26 09 23 00-0249 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor<br>(Encelium SSM-LNV) .....<br>Note: Excludes GB II cable.   | 377.08  | 77.01   |
| 26 09 23 00-0250 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W).....<br>Note: Excludes GB II cable.  | 463.89  | 77.01   |
| 26 09 23 00-0251 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W) .....<br>Note: Excludes GB II cable.  | 460.30  | 77.01   |
| 26 09 23 00-0252 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W).....<br>Note: Excludes GB II cable.  | 507.12  | 77.01   |
| 26 09 23 00-0253 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W).....<br>Note: Excludes GB II cable.  | 492.73  | 77.01   |
| 26 09 23 00-0254 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24).....<br>Note: Excludes GB II cable.  | 527.91  | 77.01   |
| 26 09 23 00-0255 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV).....<br>Note: Excludes GB II cable.   | 492.87  | 77.01   |
| 26 09 23 00-0256 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) .....<br>Note: Excludes GB II cable.  | 492.87  | 77.01   |
| 26 09 23 00-0257 EA 10 Amperes, 120 Volt, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....<br>26 09 23 00-0258 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C) .....<br>26 09 23 00-0259 EA 20 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....<br>26 09 23 00-0260 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....<br>26 09 23 00-0261 EA 10 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....  | 334.73<br>356.30<br>600.62<br>640.22<br>480.46  | 77.01<br>77.01<br>77.01<br>77.01<br>77.01   |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 09 23 00-0262 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....                 | 499.59                    | 77.01                   |
| 26 09 23 00-0263 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2).....   | 1,406.15                  | 154.02                  |
| Note: Excludes GB II cable and enclosure.   |                           |                         |
| 26 09 23 00-0264 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) .....               | 4,448.05                  | 616.08                  |
| Note: Excludes GB II cable.   |                           |                         |
| 26 09 23 00-0265 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) .....                 | 6,377.60                  | 616.08                  |
| Note: Excludes GB II cable.   |                           |                         |
| 26 09 23 00-0266 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) .....                 | 8,307.12                  | 616.08                  |
| Note: Excludes GB II cable.   |                           |                         |
| 26 09 23 00-0267 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2).....  | 703.07                    | 77.01                   |
| Note: Excludes GB II cable.   |                           |                         |
| 26 09 23 00-0268 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2) .....   | 801.13                    | 77.01                   |
| Note: Excludes GB II cable.   |                           |                         |
| 26 09 23 00-0269 EA Wireless Manager (Encelium EN-WM-ZB-P3D) .....  | 2,114.93                  | 77.01                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0270 EA Wireless Control Module (Encelium EN-WCM-ZB).....   | 299.25                    | 38.51                   |
| 26 09 23 00-0271 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....  | 351.54                    | 38.51                   |
| 26 09 23 00-0272 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....  | 352.84                    | 38.51                   |
| 26 09 23 00-0273 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR) .....                            | 365.17                    | 38.51                   |
| 26 09 23 00-0274 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0275 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) .....                                   | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0276 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0277 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....                                   | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0278 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0279 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....                                     | 269.24                    | 19.25                   |
| 26 09 23 00-0280 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....  | 585.42                    | 77.01                   |
| 26 09 23 00-0281 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) .....                 | 376.26                    | 77.01                   |
| 26 09 23 00-0282 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) .....               | 376.26                    | 77.01                   |
| 26 09 23 00-0283 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR)..... | 428.55                    | 77.01                   |
| 26 09 23 00-0284 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....   | 428.55                    | 77.01                   |
| 26 09 23 00-0285 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0286 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) .....                                   | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0287 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0288 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....                                   | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0289 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0290 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....                                     | 269.24                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0291 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....  | 585.42                    | 77.01                   |
| 26 09 23 00-0292 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....                                     | 260.75                    | 19.25                   |
| 26 09 23 00-0293 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....                                   | 260.75                    | 19.25                   |
| 26 09 23 00-0294 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....                                     | 260.75                    | 19.25                   |
| 26 09 23 00-0295 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....                                     | 269.24                    | 19.25                   |
| 26 09 23 00-0296 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....  | 585.42                    | 77.01                   |
| 26 09 23 00-0297 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) .....                 | 376.26                    | 77.01                   |
| 26 09 23 00-0298 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) .....               | 376.26                    | 77.01                   |
| 26 09 23 00-0299 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR)..... | 428.55                    | 77.01                   |
| 26 09 23 00-0300 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....   | 428.55                    | 77.01                   |
| 26 09 23 00-0301 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0302 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) .....                                  | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0303 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0304 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....                                   | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0305 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....                                     | 260.75                    | 19.25                   |
| Note: Includes white finish.  |                           |                         |
| 26 09 23 00-0306 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....                                     | 269.24                    | 19.25                   |
| 26 09 23 00-0307 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....  | 585.42                    | 77.01                   |
| 26 09 23 00-0308 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....                                     | 184.08                    | 77.01                   |
| 26 09 23 00-0309 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit) .....                                   | 757.43                    | 77.01                   |

**26 09 23 00-0310 Lighting Control Sensors** (26 09 23)

|  |        |       |
|--|--------|-------|
| 26 09 23 00-0311 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI) .....    | 401.34 | 34.65 |
| 26 09 23 00-0312 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI) ..... | 401.34 | 34.65 |
| 26 09 23 00-0313 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....              | 353.15 | 34.65 |
| 26 09 23 00-0314 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U) .....                   | 108.25 | 23.10 |
| 26 09 23 00-0315 EA Clip for Performance Troffer (LG BKTR015122.BUAAWAA).....    | 9.71   |       |
| 26 09 23 00-0316 EA Clip for Downlight (BKTCE015123.BUAAWAA).....                | 69.62  |       |
| 26 09 23 00-0317 EA Clip for Tube (LG BKTTU015121.BUAAWAA).....                  | 13.22  |       |



|                  | MINOR<br>CSI UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|------------------|---|---------------------------|-------------------------|
| 26 09 23 00-0318 |                  | Radio Controlled Devices (Lutron) <small>(26 09 23)</small>   |                           |                         |
| 26 09 23 00-0319 |                  | Tabletop Transmitters For Radio Controlled Devices <small>(26 09 23 00-0318)</small>  |                           |                         |
| 26 09 23 00-0320 |                  | Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>   |                           |                         |
| 26 09 23 00-0321 | EA               | One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0322 | EA               | Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....   | 673.26                    | 23.10                   |
| 26 09 23 00-0323 | EA               | Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....   | 846.37                    | 23.10                   |
| 26 09 23 00-0324 |                  | Dimmable Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>   |                           |                         |
| 26 09 23 00-0325 | EA               | One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0326 | EA               | Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....   | 615.56                    | 23.10                   |
| 26 09 23 00-0327 | EA               | Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....   | 846.37                    | 23.10                   |
| 26 09 23 00-0328 | EA               | One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....  | 519.38                    | 23.10                   |
| 26 09 23 00-0329 | EA               | Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....  | 673.26                    | 23.10                   |
| 26 09 23 00-0330 | EA               | Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....  | 846.37                    | 23.10                   |
| 26 09 23 00-0331 |                  | Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>  |                           |                         |
| 26 09 23 00-0332 | EA               | One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....   | 673.26                    | 23.10                   |
| 26 09 23 00-0333 | EA               | Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....   | 846.37                    | 23.10                   |
| 26 09 23 00-0334 | EA               | One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....   | 846.37                    | 23.10                   |
| 26 09 23 00-0335 |                  | Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>  |                           |                         |
| 26 09 23 00-0336 | EA               | One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH).....  | 519.38                    | 23.10                   |
| 26 09 23 00-0337 | EA               | Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....  | 673.26                    | 23.10                   |
| 26 09 23 00-0338 | EA               | One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....  | 615.56                    | 23.10                   |
| 26 09 23 00-0339 | EA               | Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....                                      | 750.20                    | 23.10                   |
| 26 09 23 00-0340 | EA               | One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....  | 673.26                    | 23.10                   |
| 26 09 23 00-0341 | EA               | Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....                                      | 807.91                    | 23.10                   |
| 26 09 23 00-0342 | EA               | One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....                                      | 673.26                    | 23.10                   |
| 26 09 23 00-0343 |                  | Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>   |                           |                         |
| 26 09 23 00-0344 | EA               | One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0345 | EA               | Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....   | 673.26                    | 23.10                   |
| 26 09 23 00-0346 | EA               | One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH).....                             | 673.26                    | 23.10                   |
| 26 09 23 00-0347 | EA               | Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....                           | 846.37                    | 23.10                   |
| 26 09 23 00-0348 | EA               | One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....                           | 673.26                    | 23.10                   |
| 26 09 23 00-0349 | EA               | One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)..... | 846.37                    | 23.10                   |
| 26 09 23 00-0350 |                  | Output Switch Closure Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>   |                           |                         |
| 26 09 23 00-0351 | EA               | Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0352 | EA               | Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....   | 673.26                    | 23.10                   |
| 26 09 23 00-0353 | EA               | Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH).....  | 846.37                    | 23.10                   |
| 26 09 23 00-0354 |                  | Accessories For Tabletop Wireless Transmitter <small>(26 09 23 00-0319)</small>   |                           |                         |
| 26 09 23 00-0355 | EA               | Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....  | 115.45                    | 23.10                   |
| 26 09 23 00-0356 |                  | Wall Box Transmitters For Radio Controlled Devices <small>(26 09 23 00-0318)</small>  |                           |                         |
| 26 09 23 00-0357 | EA               | On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....   | 480.91                    | 23.10                   |



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0358 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0359 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....                              | 519.38                    | 23.10                   |
| 26 09 23 00-0360 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0361 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....   | 519.38                    | 23.10                   |
| 26 09 23 00-0362 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....  | 519.38                    | 23.10                   |
| <b>26 09 23 00-0363 Interfaces For Radio Controlled Devices (26 09 23 00-0318)</b>   |                           |                         |
| 26 09 23 00-0364 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....                                 | 480.91                    | 23.10                   |
| 26 09 23 00-0365 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....   | 480.91                    | 23.10                   |
| 26 09 23 00-0366 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....  | 480.91                    | 23.10                   |
| 26 09 23 00-0367 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....                         | 969.48                    | 23.10                   |
| 26 09 23 00-0368 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....  | 1,384.95                  | 23.10                   |
| 26 09 23 00-0369 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....  | 1,384.95                  | 23.10                   |
| <b>26 09 23 00-0370 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0318)</b>  |                           |                         |
| 26 09 23 00-0371 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW).....   | 615.56                    | 23.10                   |
| 26 09 23 00-0372 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....   | 692.50                    | 23.10                   |
| 26 09 23 00-0373 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....                                      | 807.91                    | 23.10                   |
| <b>26 09 23 00-0374 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0318)</b>   |                           |                         |
| 26 09 23 00-0375 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC).....   | 904.08                    | 23.10                   |
| 26 09 23 00-0376 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....  | 1,240.69                  | 23.10                   |
| <b>26 09 23 00-0377 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)</b>  |                           |                         |
| <b>26 09 23 00-0378 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0377)</b>  |                           |                         |
| 26 09 23 00-0379 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS).....                          | 150.14                    | 30.80                   |
| 26 09 23 00-0380 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....         | 174.63                    | 30.80                   |
| 26 09 23 00-0381 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....              | 265.90                    | 30.80                   |
| 26 09 23 00-0382 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS).....                                   | 109.29                    | 30.80                   |
| 26 09 23 00-0383 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....                               | 130.68                    | 30.80                   |
| 26 09 23 00-0384 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS).....                           | 118.27                    | 30.80                   |
| 26 09 23 00-0385 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277).....                       | 140.10                    | 30.80                   |
| <b>26 09 23 00-0386 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0377)</b>   |                           |                         |
| 26 09 23 00-0387 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M).....                                       | 144.49                    | 30.80                   |
| 26 09 23 00-0388 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....                               | 155.79                    | 30.80                   |
| 26 09 23 00-0389 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....                         | 184.05                    | 30.80                   |
| 26 09 23 00-0390 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....                                    | 199.45                    | 38.51                   |
| 26 09 23 00-0391 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....                         | 239.62                    | 30.80                   |
| 26 09 23 00-0392 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....                                    | 87.51                     | 30.80                   |
| 26 09 23 00-0393 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....                                | 103.05                    | 30.80                   |
| 26 09 23 00-0394 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....                           | 93.17                     | 30.80                   |
| 26 09 23 00-0395 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....                       | 108.70                    | 30.80                   |
| 26 09 23 00-0396 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV)..... | 277.35                    | 53.90                   |
| <b>26 09 23 00-0397 Removal And Reinstallation Of Occupancy Sensors (26 09 23)</b>   |                           |                         |
| 26 09 23 00-0398 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor.....  | 103.97                    |                         |
| Note: Includes storing and cleaning.   |                           |                         |
| 26 09 23 00-0399 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor.....   | 69.31                     |                         |
| Note: Includes storing and cleaning.   |                           |                         |
| <b>26 09 23 00-0400 Occupancy Sensors (Watt Stopper) (26 09 23)</b>  |                           |                         |
| Note: Includes testing of new devices and certification.   |                           |                         |
| <b>26 09 23 00-0401 Occupancy Sensors (26 09 23 00-0400)</b>   |                           |                         |
| Note: Exclude boxes.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 09 23 00-0402</b> Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0401)</small>   |                           |                         |
| <b>26 09 23 00-0403</b> Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0402)</small>   |                           |                         |
| 26 09 23 00-0404 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....   | 134.46                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| 26 09 23 00-0405 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200) .....  | 157.41                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| <b>26 09 23 00-0406</b> Passive Infrared, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0402)</small>                                     |                           |                         |
| 26 09 23 00-0407 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100).....                                     | 112.26                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| 26 09 23 00-0408 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS) .....  | 105.30                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| 26 09 23 00-0409 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100) .....  | 118.29                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| 26 09 23 00-0410 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....                                     | 135.84                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| 26 09 23 00-0411 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD) .....  | 134.40                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| <b>26 09 23 00-0412</b> Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0402)</small>                      |                           |                         |
| 26 09 23 00-0413 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....                                  | 192.37                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| 26 09 23 00-0414 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200) .....                     | 206.89                    | 15.41                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.24                      |                         |
| <b>26 09 23 00-0415</b> Wall Switch Mounted Occupancy Sensor Accessories <small>(26 09 23 00-0402)</small>  |                           |                         |
| 26 09 23 00-0416 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....   | 9.09                      | 3.85                    |
| 26 09 23 00-0417 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) .....                            | 10.24                     | 3.85                    |
| 26 09 23 00-0418 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) .....                             | 10.24                     | 3.85                    |
| <b>26 09 23 00-0419</b> Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0401)</small>   |                           |                         |
| <b>26 09 23 00-0420</b> Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0419)</small>   |                           |                         |
| <b>26 09 23 00-0421</b> 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>  |                           |                         |
| 26 09 23 00-0422 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....                        | 184.21                    | 34.65                   |
| 26 09 23 00-0423 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....                     | 209.18                    | 34.65                   |
| 26 09 23 00-0424 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....                     | 234.33                    | 34.65                   |
| 26 09 23 00-0425 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H) .....                          | 232.06                    | 34.65                   |
| <b>26 09 23 00-0426</b> 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>  |                           |                         |
| 26 09 23 00-0427 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605) .....                       | 198.99                    | 34.65                   |
| 26 09 23 00-0428 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105) .....                    | 224.32                    | 34.65                   |
| 26 09 23 00-0429 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205) .....                    | 248.30                    | 34.65                   |
| 26 09 23 00-0430 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....                           | 252.36                    | 34.65                   |
| 26 09 23 00-0431 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....        | 214.13                    | 34.65                   |
| 26 09 23 00-0432 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100) .....    | 240.08                    | 34.65                   |
| 26 09 23 00-0433 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200) .....    | 265.93                    | 34.65                   |
| 26 09 23 00-0434 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250) .....          | 273.38                    | 34.65                   |
| <b>26 09 23 00-0435</b> 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0420)</small>  |                           |                         |
| 26 09 23 00-0436 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....      | 206.31                    | 34.65                   |
| 26 09 23 00-0437 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....    | 236.56                    | 34.65                   |
| 26 09 23 00-0438 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....    | 261.89                    | 34.65                   |
| 26 09 23 00-0439 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....   | 195.16                    | 34.65                   |
| 26 09 23 00-0440 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2)..... | 233.29                    | 34.65                   |
| 26 09 23 00-0441 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3)..... | 245.64                    | 34.65                   |
| 26 09 23 00-0442 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....        | 207.88                    | 34.65                   |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0443 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2)..... | 229.83                    | 34.65                   |
| 26 09 23 00-0444 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3)..... | 256.94                    | 34.65                   |
| <b>26 09 23 00-0445 Passive Infrared, Ceiling Mounted Occupancy Sensors</b> <small>(26 09 23 00-0419)</small>                                    |                           |                         |
| 26 09 23 00-0446 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....                        | 155.07                    | 34.65                   |
| 26 09 23 00-0447 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....                                    | 158.02                    | 34.65                   |
| 26 09 23 00-0448 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....  | 165.01                    | 34.65                   |
| 26 09 23 00-0449 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....                                  | 183.74                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0450 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....                   | 186.01                    | 34.65                   |
| 26 09 23 00-0451 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....                                | 195.82                    | 34.65                   |
| 26 09 23 00-0452 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....                                   | 211.51                    | 34.65                   |
| <b>26 09 23 00-0453 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors</b> <small>(26 09 23 00-0419)</small>                     |                           |                         |
| 26 09 23 00-0454 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....    | 248.08                    | 34.65                   |
| 26 09 23 00-0455 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....  | 281.28                    | 34.65                   |
| 26 09 23 00-0456 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....                  | 241.04                    | 34.65                   |
| <b>26 09 23 00-0457 Ceiling/Wall Mounted Occupancy Sensors</b> <small>(26 09 23 00-0401)</small>   |                           |                         |
| <b>26 09 23 00-0458 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors</b> <small>(26 09 23 00-0457)</small>                               |                           |                         |
| 26 09 23 00-0459 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....     | 301.18                    | 34.65                   |
| 26 09 23 00-0460 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....       | 301.18                    | 34.65                   |
| <b>26 09 23 00-0461 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors</b> <small>(26 09 23 00-0457)</small>                |                           |                         |
| 26 09 23 00-0462 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....         | 281.28                    | 34.65                   |
| <b>26 09 23 00-0463 Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0400)</small>   |                           |                         |
| <b>26 09 23 00-0464 Single Voltage, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0463)</small>   |                           |                         |
| 26 09 23 00-0465 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....                                      | 108.03                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| 26 09 23 00-0466 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....   | 99.60                     | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| <b>26 09 23 00-0467 Auxiliary, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0463)</small>  |                           |                         |
| 26 09 23 00-0468 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....               | 92.65                     | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| <b>26 09 23 00-0469 Universal Voltage, Power Packs For Occupancy Sensors</b> <small>(26 09 23 00-0463)</small>                                   |                           |                         |
| 26 09 23 00-0470 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....                            | 118.08                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| <b>26 09 23 00-0471 Form C, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0463)</small>   |                           |                         |
| 26 09 23 00-0472 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....   | 108.41                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| 26 09 23 00-0473 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....   | 108.49                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| <b>26 09 23 00-0474 Two Relay, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0463)</small>  |                           |                         |
| 26 09 23 00-0475 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....  | 132.85                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| 26 09 23 00-0476 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....  | 134.53                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| <b>26 09 23 00-0477 Occupancy Sensor Power Supplies</b> <small>(26 09 23 00-0463)</small>  |                           |                         |
| 26 09 23 00-0478 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150).....  | 126.97                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |
| 26 09 23 00-0479 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....  | 256.42                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 18.48                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0480 <b>Intelligent, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0463)</small>  |                           |                         |
| 26 09 23 00-0481 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....  | 334.79                    | 30.80                   |
| 26 09 23 00-0482 <b>DIN Rail Mounted, Occupancy Sensor Power Packs</b> <small>(26 09 23 00-0463)</small>   |                           |                         |
| 26 09 23 00-0483 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....  | 117.12                    | 30.80                   |
| 26 09 23 00-0484 <b>Occupancy Sensor Accessories</b> <small>(26 09 23 00-0400)</small>   |                           |                         |
| 26 09 23 00-0485 <b>Protective Cages For Occupancy Sensors</b> <small>(26 09 23 00-0484)</small>   |                           |                         |
| 26 09 23 00-0486 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....   | 64.50                     | 11.56                   |
| 26 09 23 00-0487 <b>Mounting Brackets For Occupancy Sensors</b> <small>(26 09 23 00-0484)</small>  |                           |                         |
| 26 09 23 00-0488 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....<br>Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders. | 55.05                     | 19.25                   |
| 26 09 23 00-0489 <b>Occupancy/Lighting Logger</b> <small>(26 09 23 00-0484)</small>  |                           |                         |
| 26 09 23 00-0490 EA Note: Logs when a space is occupied/vacant and when lighting is on/off.<br>Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....   | 469.76                    | 65.46                   |
| 26 09 23 00-0491 <b>Digital Time Light Switches</b> <small>(26 09 23 00-0400)</small>  |                           |                         |
| 26 09 23 00-0492 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....   | 102.01                    | 15.41                   |
| 26 09 23 00-0493 <b>Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor</b> <small>(26 09 23 00-0400)</small>  |                           |                         |
| 26 09 23 00-0494 EA Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (Watt Stopper FSP-211) .....   | 231.59                    | 50.05                   |
| 26 09 23 00-0495 <b>Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23)</small>  |                           |                         |
| Note: Includes testing of new devices and certification.   |                           |                         |
| 26 09 23 00-0496 <b>Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0495)</small>  |                           |                         |
| Note: Exclude boxes  |                           |                         |
| 26 09 23 00-0497 <b>Wall Switch Mount Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0496)</small>  |                           |                         |
| 26 09 23 00-0498 <b>Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0497)</small>  |                           |                         |
| 26 09 23 00-0499 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....   | 223.15                    | 15.41                   |
| 26 09 23 00-0500 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL) .....  | 159.03                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0501 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD) .....   | 151.98                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0502 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....  | 151.98                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0503 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P) .....  | 191.09                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0504 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....   | 191.09                    | 15.41                   |
| 26 09 23 00-0505 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....   | 231.18                    | 15.41                   |
| 26 09 23 00-0506 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD) .....  | 191.09                    | 15.41                   |
| 26 09 23 00-0507 <b>Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0497)</small>   |                           |                         |
| Note: Includes passive infrared and microphonics detection   |                           |                         |
| 26 09 23 00-0508 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....   | 287.26                    | 15.41                   |
| 26 09 23 00-0509 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL) .....   | 223.15                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0510 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT) .....   | 218.35                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0511 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA) .....   | 218.35                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0512 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P) .....  | 255.21                    | 15.41                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
|  | 9.24                      |                         |
| 26 09 23 00-0513 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT) .....   | 255.21                    | 15.41                   |
| 26 09 23 00-0514 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P).....  | 274.44                    | 15.41                   |
| 26 09 23 00-0515 <b>Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch)</b> <small>(26 09 23 00-0497)</small>   |                           |                         |
| 26 09 23 00-0516 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....  | 20.52                     | 3.85                    |
| 26 09 23 00-0517 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX) .....  | 20.52                     | 3.85                    |
| 26 09 23 00-0518 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3) .....  | 39.76                     | 3.85                    |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 09 23 00-0519        | EA  | Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....   | 39.76                     | 3.85                    |
| <b>26 09 23 00-0520</b> |     | <b>360 Degree View Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0496)</small>   |                           |                         |
| <b>26 09 23 00-0521</b> |     | <b>Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0520)</small>                                       |                           |                         |
|                         |     | Note: One photocell or dimming option per occupancy sensor   |                           |                         |
| 26 09 23 00-0522        | EA  | Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9) .....                          | 261.66                    | 34.65                   |
| 26 09 23 00-0523        | EA  | Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9) .....                         | 261.66                    | 34.65                   |
| 26 09 23 00-0524        | EA  | Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9) .....                   | 261.66                    | 34.65                   |
| 26 09 23 00-0525        | EA  | Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9).....            | 277.69                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0526        | EA  | Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9).....           | 277.69                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0527        | EA  | Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9) .....    | 226.39                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0528        | EA  | 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....              | 341.80                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0529        | EA  | 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....             | 341.80                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0530        | EA  | 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P) .....      | 290.51                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0531        | EA  | Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10) .....                         | 261.66                    | 34.65                   |
| 26 09 23 00-0532        | EA  | Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10) .....                        | 261.66                    | 34.65                   |
| 26 09 23 00-0533        | EA  | Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10) .....                  | 261.66                    | 34.65                   |
| 26 09 23 00-0534        | EA  | Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....           | 277.69                    | 34.65                   |
| 26 09 23 00-0535        | EA  | Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....          | 277.69                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0536        | EA  | Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10) .....   | 226.39                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0537        | EA  | 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....             | 341.80                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0538        | EA  | 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....            | 341.80                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0539        | EA  | 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....      | 290.51                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| <b>26 09 23 00-0540</b> |     | <b>Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)</b> <small>(26 09 23 00-0520)</small>  |                           |                         |
|                         |     | Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection                                   |                           |                         |
| 26 09 23 00-0541        | EA  | Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....                        | 325.77                    | 34.65                   |
| 26 09 23 00-0542        | EA  | Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....                       | 325.77                    | 34.65                   |
| 26 09 23 00-0543        | EA  | Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9) .....                | 325.77                    | 34.65                   |
| 26 09 23 00-0544        | EA  | Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....         | 309.75                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0545        | EA  | Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....        | 309.75                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0546        | EA  | Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9) ..... | 258.45                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0547        | EA  | 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....           | 373.86                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0548        | EA  | 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....          | 373.86                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |
| 26 09 23 00-0549        | EA  | 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....    | 322.57                    | 34.65                   |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 20.79                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0550 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....                       | 325.77                    | 34.65                   |
| 26 09 23 00-0551 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....                      | 325.77                    | 34.65                   |
| 26 09 23 00-0552 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....                | 325.77                    | 34.65                   |
| 26 09 23 00-0553 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....        | 309.75                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0554 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....       | 309.75                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0555 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10)..... | 258.45                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0556 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....          | 373.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0557 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....         | 373.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0558 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....   | 322.57                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| <i>20.79</i>   |                           |                         |
| <b>26 09 23 00-0559 Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)</b>   |                           |                         |
| <b>26 09 23 00-0560 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)</b>   |                           |                         |
| 26 09 23 00-0561 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....   | 261.66                    | 34.65                   |
| 26 09 23 00-0562 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....   | 293.72                    | 34.65                   |
| 26 09 23 00-0563 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....   | 357.83                    | 34.65                   |
| 26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....                                    | 341.80                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0565 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....                                      | 405.92                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| <i>20.79</i>   |                           |                         |
| <b>26 09 23 00-0566 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)</b>  |                           |                         |
| <i>Note: Includes passive infrared and microphonics detection</i>  |                           |                         |
| 26 09 23 00-0567 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....  | 325.77                    | 34.65                   |
| 26 09 23 00-0568 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....                                 | 373.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0569 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....                                   | 437.98                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| <i>20.79</i>   |                           |                         |
| <b>26 09 23 00-0570 High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)</b>  |                           |                         |
| <b>26 09 23 00-0571 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0570)</b>  |                           |                         |
| 26 09 23 00-0572 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....                                 | 261.66                    | 34.65                   |
| 26 09 23 00-0573 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....                                | 261.66                    | 34.65                   |
| 26 09 23 00-0574 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....                          | 261.66                    | 34.65                   |
| 26 09 23 00-0575 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....                  | 226.39                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0576 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....                 | 226.39                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0577 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....           | 226.39                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0578 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....                    | 290.51                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0579 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....                   | 290.51                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0580 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....             | 290.51                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0581 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....          | 248.84                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| 26 09 23 00-0582 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....         | 248.84                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  |                           |                         |
| <i>20.79</i>   |                           |                         |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 09 23 00-0583 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....                | 248.84                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0584 EA 480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....                           | 248.84                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0585 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....                          | 248.84                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0586 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....                    | 248.84                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0587 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....                               | 293.72                    | 34.65                   |
| 26 09 23 00-0588 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....                              | 293.72                    | 34.65                   |
| 26 09 23 00-0589 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....                        | 293.72                    | 34.65                   |
| 26 09 23 00-0590 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....                | 354.63                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0591 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....               | 354.63                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0592 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....         | 354.63                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0593 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....                 | 312.95                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0594 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....           | 312.95                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0595 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....       | 264.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0596 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208)..... | 264.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0597 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....           | 264.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0598 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....     | 264.86                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0599 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....                                       | 293.72                    | 34.65                   |
| 26 09 23 00-0600 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....                                | 293.72                    | 34.65                   |
| 26 09 23 00-0601 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....                        | 354.63                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0602 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....                 | 354.63                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0603 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....                   | 341.80                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0604 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....             | 309.75                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| 26 09 23 00-0605 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....         | 309.75                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20.79                     |                         |
| <b>26 09 23 00-0606 Occupancy Sensor Power Packs (Sensor Switch) <small>(26 09 23 00-0495)</small></b>  |                           |                         |
| 26 09 23 00-0607 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....                                   | 151.37                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.48                     |                         |
| 26 09 23 00-0608 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....                                     | 215.49                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.48                     |                         |
| 26 09 23 00-0609 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....                                | 119.31                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.48                     |                         |
| 26 09 23 00-0610 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....                                    | 109.70                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.48                     |                         |
| 26 09 23 00-0611 EA 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....  | 141.76                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.48                     |                         |
| 26 09 23 00-0612 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....                                   | 221.90                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.48                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 09 23 00-0613 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....   | 221.90                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.48</i>              |                         |
| 26 09 23 00-0614 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....  | 221.90                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.48</i>              |                         |
| <b>26 09 23 00-0615 Daylighting Control (Sensor Switch) <small>(26 09 23 00-0495)</small></b>  |                           |                         |
| 26 09 23 00-0616 EA Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....  | 229.60                    | 34.65                   |
| 26 09 23 00-0617 EA Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....   | 229.60                    | 34.65                   |
| 26 09 23 00-0618 EA Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....   | 229.60                    | 34.65                   |
| 26 09 23 00-0619 EA Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC).....  | 229.60                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0620 EA Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC).....   | 229.60                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0621 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC).....   | 229.60                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0622 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....  | 229.60                    | 34.65                   |
| 26 09 23 00-0623 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....   | 229.60                    | 34.65                   |
| 26 09 23 00-0624 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....   | 229.60                    | 34.65                   |
| 26 09 23 00-0625 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....  | 229.60                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0626 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....   | 229.60                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0627 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....   | 229.60                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0628 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....  | 325.77                    | 34.65                   |
| 26 09 23 00-0629 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....   | 325.77                    | 34.65                   |
| 26 09 23 00-0630 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....   | 325.77                    | 34.65                   |
| 26 09 23 00-0631 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....  | 325.77                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0632 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....   | 325.77                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| 26 09 23 00-0633 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....   | 325.77                    | 34.65                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>20.79</i>              |                         |
| <b>26 09 23 00-0634 Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23)</small></b>  |                           |                         |
| <i>Note: Includes testing of new devices and certification.</i>  |                           |                         |
| <b>26 09 23 00-0635 Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small></b>  |                           |                         |
| <i>Note: Excludes boxes.</i>   |                           |                         |
| <b>26 09 23 00-0636 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small></b>  |                           |                         |
| <b>26 09 23 00-0637 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0636)</small></b>   |                           |                         |
| <i>Note: Includes passive infrared and microphonics detection</i>  |                           |                         |
| 26 09 23 00-0638 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....                                  | 343.78                    | 15.41                   |
| <b>26 09 23 00-0639 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small></b>  |                           |                         |
| <b>26 09 23 00-0640 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0639)</small></b>  |                           |                         |
| <i>Note: One photocell or dimming option per occupancy sensor</i>  |                           |                         |
| 26 09 23 00-0641 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....  | 413.23                    | 34.65                   |
| 26 09 23 00-0642 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....   | 413.23                    | 34.65                   |
| 26 09 23 00-0643 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC)..... | 413.23                    | 34.65                   |
| <b>26 09 23 00-0644 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0639)</small></b>   |                           |                         |
| <i>Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection</i>  |                           |                         |
| 26 09 23 00-0645 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....                                       | 482.02                    | 34.65                   |
| 26 09 23 00-0646 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....                                      | 482.02                    | 34.65                   |
| 26 09 23 00-0647 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....                        | 499.19                    | 34.65                   |
| <b>26 09 23 00-0648 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small></b>  |                           |                         |



**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 09 23 00-0649</b> <b>Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23 00-0649)</small>                   |                           |                         |
| Note: Includes passive infrared and microphonics detection  |                           |                         |
| 26 09 23 00-0650    EA    Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16) .....                   | 482.02                    | 34.65                   |
| <b>26 09 23 00-0651</b> <b>High Bay Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23 00-0635)</small>   |                           |                         |
| <b>26 09 23 00-0652</b> <b>Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®)</b> <small>(26 09 23 00-0651)</small>                               |                           |                         |
| 26 09 23 00-0653    EA    Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6) .....       | 413.23                    | 34.65                   |
| <b>26 09 23 00-0654</b> <b>Occupancy Sensor Power Packs (Sensor Switch nLight®)</b> <small>(26 09 23 00-0634)</small>   |                           |                         |
| 26 09 23 00-0655    EA    150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150) .....                             | 147.59                    | 30.80                   |
| 26 09 23 00-0656    EA    250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250) .....                             | 182.01                    | 30.80                   |
| 26 09 23 00-0657    EA    30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO) .....                        | 240.45                    | 30.80                   |
| 26 09 23 00-0658    EA    System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16) .....  | 240.45                    | 30.80                   |
| <b>26 09 23 00-0659</b> <b>Occupancy Sensor Accessories (Sensor Switch nLight®)</b> <small>(26 09 23 00-0634)</small>   |                           |                         |
| 26 09 23 00-0660    EA    RS232 AV Integrator (Sensor Switch nLight® nIO X) .....   | 499.19                    | 34.65                   |
| 26 09 23 00-0661    EA    8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT) .....   | 404.44                    | 34.65                   |
| <b>26 09 23 00-0662</b> <b>Daylighting Controls (Sensor Switch nLight®)</b> <small>(26 09 23 00-0634)</small>   |                           |                         |
| 26 09 23 00-0663    EA    Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC) .....                                     | 344.45                    | 34.65                   |
| <b>26 09 23 00-0664</b> <b>Controls (Sensor Switch nLight®)</b> <small>(26 09 23 00-0634)</small>   |                           |                         |
| 26 09 23 00-0665    EA    On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX) .....                  | 230.96                    | 34.65                   |
| 26 09 23 00-0666    EA    1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB) .....                 | 327.28                    | 34.65                   |
| 26 09 23 00-0667    EA    On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM) .....  | 739.97                    | 34.65                   |
| 26 09 23 00-0668    EA    3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX) .....                           | 739.97                    | 34.65                   |
| 26 09 23 00-0669    EA    3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2) .....                           | 2,734.73                  | 34.65                   |
| <b>26 09 23 00-0670</b> <b>Occupancy Sensors (Lutron)</b> <small>(26 09 23)</small>   |                           |                         |
| Note: Includes testing of new devices and certification.  |                           |                         |
| <b>26 09 23 00-0671</b> <b>Wireless Occupancy Sensors</b> <small>(26 09 23 00-0670)</small>   |                           |                         |
| 26 09 23 00-0672    EA    Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH) .....                       | 175.14                    | 34.65                   |
| 26 09 23 00-0673    EA    Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH) .....                                 | 182.24                    | 34.65                   |
| 26 09 23 00-0674    EA    Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH) .....                                   | 176.82                    | 34.65                   |
| 26 09 23 00-0675    EA    Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH) .....   | 186.23                    | 34.65                   |
| 26 09 23 00-0676    EA    Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH) .....                               | 178.93                    | 34.65                   |
| 26 09 23 00-0677    EA    Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH) .....   | 186.23                    | 34.65                   |
| 26 09 23 00-0678    EA    Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH) .....                                | 175.14                    | 34.65                   |
| 26 09 23 00-0679    EA    Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH) .....  | 178.93                    | 34.65                   |
| 26 09 23 00-0680    EA    Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V) .....                         | 176.82                    | 34.65                   |
| 26 09 23 00-0681    EA    Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH) .....                | 265.38                    | 34.65                   |
| 26 09 23 00-0682    EA    Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH) .....    | 282.25                    | 34.65                   |
| 26 09 23 00-0683    EA    Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH) .....             | 320.20                    | 34.65                   |
| 26 09 23 00-0684    EA    Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH) ..... | 337.07                    | 34.65                   |
| 26 09 23 00-0685    EA    Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH) .....             | 345.50                    | 34.65                   |
| 26 09 23 00-0686    EA    Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH) ..... | 362.37                    | 34.65                   |
| 26 09 23 00-0687    EA    Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH) .....               | 212.25                    | 34.65                   |
| 26 09 23 00-0688    EA    Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH) .....            | 223.21                    | 34.65                   |
| 26 09 23 00-0689    EA    Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH) .....                     | 259.05                    | 34.65                   |
| 26 09 23 00-0690    EA    Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH) .....                  | 286.46                    | 34.65                   |
| 26 09 23 00-0691    EA    Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH) .....                  | 307.55                    | 34.65                   |
| 26 09 23 00-0692    EA    Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH) .....                         | 267.49                    | 34.65                   |
| 26 09 23 00-0693    EA    Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH) .....   | 247.01                    | 34.65                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 09 23 00-0694 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH) .....                | 208.90                    | 34.65                   |
| 26 09 23 00-0695 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH) ..... | 253.83                    | 34.65                   |
| 26 09 23 00-0696 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C) .....  | 305.15                    | 34.65                   |
| 26 09 23 00-0697 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H) .....  | 323.01                    | 34.65                   |
| 26 09 23 00-0698 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K) .....   | 323.01                    | 34.65                   |
| 26 09 23 00-0699 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W) .....   | 323.01                    | 34.65                   |
| 26 09 23 00-0700 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V) .....  | 339.38                    | 34.65                   |
| 26 09 23 00-0701 EA Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....   | 547.99                    | 50.05                   |
| <b>26 09 23 00-0702</b> <b>Nodes And Modules</b> <small>(26 09 23 00-0670)</small>  |                           |                         |
| 26 09 23 00-0703 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C) .....   | 275.92                    | 34.65                   |
| 26 09 23 00-0704 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J) .....  | 275.92                    | 34.65                   |
| 26 09 23 00-0705 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C) .....   | 345.50                    | 34.65                   |
| 26 09 23 00-0706 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J) .....  | 345.50                    | 34.65                   |
| 26 09 23 00-0707 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....   | 439.65                    | 38.51                   |
| 26 09 23 00-0708 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH) .....  | 439.65                    | 38.51                   |
| 26 09 23 00-0709 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH) .....  | 530.32                    | 38.51                   |
| 26 09 23 00-0710 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH) .....                     | 542.97                    | 38.51                   |
| 26 09 23 00-0711 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....  | 667.37                    | 38.51                   |
| 26 09 23 00-0712 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH) .....   | 707.43                    | 38.51                   |
| 26 09 23 00-0713 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....                   | 747.49                    | 38.51                   |
| 26 09 23 00-0714 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....   | 2,005.05                  | 61.61                   |
| 26 09 23 00-0715 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....  | 1,973.02                  | 69.31                   |
| 26 09 23 00-0716 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....  | 2,884.53                  | 77.01                   |
| <b>26 09 23 00-0717</b> <b>Other Accessories</b> <small>(26 09 23 00-0670)</small>  |                           |                         |
| 26 09 23 00-0718 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ) .....   | 49.22                     |                         |
| 26 09 23 00-0719 EA Pico® Wireless Control (Lutron® PJ) .....   | 55.14                     |                         |
| 26 09 23 00-0720 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH) .....   | 162.98                    |                         |
| 26 09 23 00-0721 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH) .....  | 308.47                    |                         |
| 26 09 23 00-0722 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....   | 333.34                    | 34.65                   |
| 26 09 23 00-0723 EA seeTouch® QS Wallstation (Lutron® QSWS2) .....  | 418.79                    | 34.65                   |
| 26 09 23 00-0724 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2) .....   | 418.79                    | 34.65                   |
| 26 09 23 00-0725 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S) .....   | 680.02                    | 38.51                   |
| 26 09 23 00-0726 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S) .....  | 926.72                    | 38.51                   |
| 26 09 23 00-0727 EA Control Interface (Lutron® QSE-CI-NWK-E).....   | 1,110.89                  | 34.65                   |
| 26 09 23 00-0728 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S) .....                                     | 1,102.48                  | 34.65                   |
| 26 09 23 00-0729 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S) .....                                    | 1,471.47                  | 34.65                   |
| 26 09 23 00-0730 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....  | 2,786.03                  | 1,076.75                |
| 26 09 23 00-0731 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....   | 3,629.43                  | 1,076.75                |
| <b>26 09 23 00-0732</b> <b>Fixture Mounted Occupancy Sensors (Leviton)</b> <small>(26 09 23)</small>  |                           |                         |
| Note: Includes testing of new devices and certification.  |                           |                         |
| 26 09 23 00-0733 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....                     | 168.39                    | 34.65                   |
| 26 09 23 00-0734 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W).....                         | 148.99                    | 34.65                   |
| 26 09 23 00-0735 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW) .....                | 184.41                    | 34.65                   |
| 26 09 23 00-0736 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W) .....                    | 148.99                    | 34.65                   |
| 26 09 23 00-0737 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....   | 231.78                    | 15.39                   |
| <b>26 09 23 00-0738</b> <b>Wireless Enabled Communication Devices For Streetlights</b> <small>(26 09 23)</small>  |                           |                         |
| Note: Includes testing of new devices and certification.  |                           |                         |
| <b>26 09 23 00-0739</b> <b>Wireless Enabled Communication Nodes For Streetlights (Roam®)</b> <small>(26 09 23 00-0738)</small>                              |                           |                         |
| 26 09 23 00-0740 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....                                       | 351.71                    |                         |
| 26 09 23 00-0741 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....   | 489.28                    |                         |
| <b>26 09 23 00-0742</b> <b>Wireless Enabled Communication Devices For Streetlights (Roam®)</b> <small>(26 09 23 00-0738)</small>                            |                           |                         |
| 26 09 23 00-0743 EA Retrofit Receptacle Kit (Roam® DUR103).....   | 66.27                     |                         |
| Note: For adapting light fixtures for use with a NEMA locking type photocontrol.  |                           |                         |
| 26 09 23 00-0744 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127) .....  | 13,925.65                 | 84.34                   |
| <b>26 09 23 00-0745</b> <b>Counter Mounted Consolets</b> <small>(26 09 23)</small>  |                           |                         |
| 26 09 23 00-0746 EA 20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....  | 752.11                    | 192.28                  |
| <b>26 09 23 00-0747</b> <b>Lighting Console And Stations</b> <small>(26 09 23)</small>  |                           |                         |

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|--|--------------------------------|-------------------------|
| 26 09 23 00-0748 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40) .....<br><i>For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add</i><br><i>For Lighting Console Case (ETC ColorSourcePart 11866), Add</i>   | 4,978.78<br>106.24<br>1,132.76 | 192.28                  |
| 26 09 23 00-0749 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2) .....  | 3,432.20                       | 115.36                  |
| <b>26 09 23 00-0750 Theatre Lighting Console</b> <small>(26 09 23)</small>   |                                |                         |
| 26 09 23 00-0751 EA Theatre Lighting Console (ETC Colorsouce 20) .....   | 3,610.71                       | 230.73                  |
| <b>26 09 23 00-0752 Emergency Lighting Controls</b> <small>(26 09 23)</small>  |                                |                         |
| <b>26 09 23 00-0753 Emergency Lighting Control Units (Watt Stopper ELCU)</b> <small>(26 09 23 00-0752)</small><br>Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.               |                                |                         |
| 26 09 23 00-0754 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100) .....   | 236.96                         | 38.51                   |
| 26 09 23 00-0755 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200) .....  | 236.96                         | 38.51                   |
| <b>26 09 23 00-0756 Emergency Shunt Relays (Lighting Control &amp; Design GR 2001™)</b> <small>(26 09 23 00-0752)</small><br>Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch. |                                |                         |
| 26 09 23 00-0757 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™) .....  | 418.52                         | 53.90                   |
| 26 09 23 00-0758 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™) .....   | 566.92                         | 61.61                   |
| 26 09 23 00-0759 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual) .....  | 760.00                         | 69.31                   |
| Note: Controls normal and emergency lighting from single-pole wall switch.   |                                |                         |
| <b>26 09 23 00-0760 Photocells</b> <small>(26 09 23)</small>   |                                |                         |
| 26 09 23 00-0761 EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000) .....   | 111.78                         |                         |
| 26 09 23 00-0762 EA Wired Photocell For Lighting Fixtures (Intermac® K4021C) .....   | 268.18                         |                         |
| <b>26 09 23 00-0763 Outdoor Lighting Motion Sensors</b> <small>(26 09 23)</small>  |                                |                         |
| 26 09 23 00-0764 EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000) .....  | 143.76                         | 38.51                   |
| 26 09 23 00-0765 EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000) .....   | 155.86                         | 38.51                   |
| 26 09 23 00-0766 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR) .....  | 605.17                         | 38.51                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 23.10                          |                         |
| <b>26 09 23 00-0767 Street Light Controls</b> <small>(26 09 23)</small>  |                                |                         |
| <b>26 09 23 00-0768 Photo Controls</b> <small>(26 09 23 00-0767)</small>   |                                |                         |
| 26 09 23 00-0769 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014 .....   | 117.11                         |                         |
| 26 09 23 00-0770 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016 .....  | 131.96                         |                         |
| <b>26 09 23 00-0771 Connector Node</b> <small>(26 09 23 00-0767)</small>   |                                |                         |
| 26 09 23 00-0772 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260) .....   | 544.87                         | 3.13                    |

**26 10 Medium-Voltage Electrical Distribution** (26)**26 11 Substations** (26 10)**26 11 13 Primary Unit Substations** (26 11)**26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section** (26 11 13)**26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard"** (26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

|   |            |          |
|---|------------|----------|
| 26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation .....   | 59,087.60  | 2,639.89 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 1,611.11   |          |
| 26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation .....   | 72,516.58  | 3,338.68 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 2,013.88   |          |
| 26 11 13 00-0005 EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation ..... | 81,917.09  | 3,338.68 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 2,013.88   |          |
| 26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation .....   | 94,048.74  | 3,338.68 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 2,148.14   |          |
| 26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation .....   | 106,735.45 | 4,115.12 |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                             | 2,478.62   |          |

**26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers** (26 11 13 00-0001)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179 .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,730.93<br>166.45   | 281.10                  |
| 26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 600.74<br>111.01   | 203.80                  |
| 26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67 .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 874.98<br>138.32   | 203.80                  |
| 26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 693.47<br>111.01   | 203.80                  |
| 26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87 .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,594.71<br>415.85   | 688.70                  |
| <b>26 11 13 00-0014 "Switchyard", Substation Transformer Section</b> <small>(26 11 13)</small><br>Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range  |  |                         |
| <b>26 11 13 00-0015 14.4 KV Nominal Primary</b> <small>(26 11 13 00-0014)</small>   |  |                         |
| 26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For Forced Air Cooling, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>  | 34,630.64<br>3,511.23<br>3,511.23<br>877.81<br>292.60<br>1,463.01<br>3,657.54<br>4,389.04        | 2,639.89                |
| 26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For Forced Air Cooling, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>  | 39,746.58<br>3,964.04<br>3,964.04<br>991.01<br>330.34<br>1,651.68<br>4,129.21<br>4,955.05        | 3,307.62                |
| 26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For Forced Air Cooling, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>  | 60,949.25<br>6,168.23<br>6,168.23<br>1,542.06<br>514.02<br>2,570.10<br>6,425.24<br>7,710.29      | 4,658.62                |
| 26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For Forced Air Cooling, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>  | 87,626.33<br>9,095.56<br>9,095.56<br>2,273.89<br>757.96<br>3,789.82<br>9,474.54<br>11,369.45     | 5,484.81                |
| 26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For Forced Air Cooling, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> | 108,008.34<br>11,186.50<br>11,186.50<br>2,796.63<br>932.21<br>4,661.04<br>11,652.61<br>13,983.13 | 7,097.98                |
| <b>26 11 13 00-0021 23 KV Nominal Primary</b> <small>(26 11 13 00-0014)</small>   |  |                         |
| 26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i><br><i>For Forced Air Cooling, Add</i>    | 38,900.00<br>3,862.45<br>965.61<br>321.87<br>1,609.35<br>4,023.38<br>4,828.06<br>2,574.96        | 3,571.61                |
| 26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i><br><i>For Forced Air Cooling, Add</i>    | 44,528.38<br>4,370.66<br>1,092.67<br>364.22<br>1,821.11<br>4,552.77<br>5,463.33<br>2,913.77      | 3,571.61                |
| 26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....<br><i>For 50 Hz Operation, Add</i><br><i>For External Control Panel, Add</i><br><i>For Internally Mounted Current Transformers And Linear Couplers, Add</i><br><i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i><br><i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i><br><i>For Forced Air Cooling, Add</i>    | 70,854.91<br>7,213.70<br>1,803.43<br>601.14<br>3,005.71<br>7,514.28<br>9,017.13<br>4,809.14      | 5,279.77                |

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 11 Substations**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....    | 94,939.98                 | 7,097.98                |
| For 50 Hz Operation, Add   | 9,618.30                  |                         |
| For External Control Panel, Add  | 2,404.58                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 801.53                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 4,007.63                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 10,019.06                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 12,022.88                 |                         |
| For Forced Air Cooling, Add  | 6,412.20                  |                         |
| 26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....   | 116,720.60                | 7,097.98                |
| For 50 Hz Operation, Add   | 12,231.98                 |                         |
| For External Control Panel, Add  | 3,057.99                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 1,019.33                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 5,096.66                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 12,741.64                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 15,289.97                 |                         |
| For Forced Air Cooling, Add  | 8,154.65                  |                         |
| <b>26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)</b>   |                           |                         |
| 26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....  | 48,763.50                 | 4,270.41                |
| For 50 Hz Operation, Add   | 4,878.88                  |                         |
| For External Control Panel, Add  | 1,219.72                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 406.57                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 2,032.87                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 5,082.16                  |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 6,098.60                  |                         |
| For Forced Air Cooling, Add  | 3,252.58                  |                         |
| 26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....  | 58,891.81                 | 6,677.36                |
| For 50 Hz Operation, Add   | 5,895.30                  |                         |
| For External Control Panel, Add  | 1,473.83                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 491.28                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 2,456.38                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 6,140.94                  |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 7,369.13                  |                         |
| For Forced Air Cooling, Add  | 3,930.20                  |                         |
| 26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....  | 81,381.56                 | 6,677.36                |
| For 50 Hz Operation, Add   | 8,154.68                  |                         |
| For External Control Panel, Add  | 2,038.67                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 679.56                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 3,397.78                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 8,494.46                  |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 10,193.35                 |                         |
| For Forced Air Cooling, Add  | 5,436.45                  |                         |
| 26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....  | 103,652.17                | 6,936.66                |
| For 50 Hz Operation, Add   | 10,663.76                 |                         |
| For External Control Panel, Add  | 2,665.94                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 888.65                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 4,443.24                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 11,108.09                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 13,329.71                 |                         |
| For Forced Air Cooling, Add  | 7,109.18                  |                         |
| 26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled ..... | 177,490.68                | 8,872.48                |
| For 50 Hz Operation, Add   | 19,027.53                 |                         |
| For External Control Panel, Add  | 4,756.88                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 1,585.63                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 7,928.14                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 19,820.34                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 23,784.41                 |                         |
| For Forced Air Cooling, Add  | 12,685.02                 |                         |
| <b>26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)</b>   |                           |                         |
| 26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....    | 74,081.64                 | 4,969.20                |
| For 50 Hz Operation, Add   | 7,718.08                  |                         |
| For External Control Panel, Add  | 1,929.52                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 643.17                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 3,215.87                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 8,039.67                  |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 9,647.60                  |                         |
| For Forced Air Cooling, Add  | 5,145.39                  |                         |
| 26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....    | 83,658.29                 | 4,969.20                |
| For 50 Hz Operation, Add   | 8,750.11                  |                         |
| For External Control Panel, Add  | 2,187.53                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 729.18                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 3,645.88                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 9,114.70                  |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 10,937.64                 |                         |
| For Forced Air Cooling, Add  | 5,833.41                  |                         |
| 26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....    | 115,507.43                | 6,677.36                |
| For 50 Hz Operation, Add   | 12,249.78                 |                         |
| For External Control Panel, Add  | 3,062.45                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add   | 1,020.82                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add                                   | 5,104.08                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add                                 | 12,760.19                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add                                   | 15,312.23                 |                         |
| For Forced Air Cooling, Add  | 8,166.52                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....   | 141,590.90                | 8,872.48                |
| For 50 Hz Operation, Add  | 14,719.55                 |                         |
| For External Control Panel, Add   | 3,679.89                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 1,226.63                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 6,133.15                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 15,332.87                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 18,399.44                 |                         |
| For Forced Air Cooling, Add   | 9,813.04                  |                         |
| 26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....  | 199,325.25                | 8,872.48                |
| For 50 Hz Operation, Add  | 21,647.67                 |                         |
| For External Control Panel, Add   | 5,411.92                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 1,803.97                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 9,019.86                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 22,549.66                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 27,059.59                 |                         |
| For Forced Air Cooling, Add   | 14,431.78                 |                         |
| <b>26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)</b>  |                           |                         |
| 26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....   | 105,773.14                | 5,279.77                |
| For 50 Hz Operation, Add  | 11,403.89                 |                         |
| For External Control Panel, Add   | 2,850.97                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 950.32                    |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 4,751.62                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 11,879.05                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 14,254.86                 |                         |
| For Forced Air Cooling, Add   | 7,602.59                  |                         |
| 26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....   | 121,769.12                | 6,677.36                |
| For 50 Hz Operation, Add  | 13,001.19                 |                         |
| For External Control Panel, Add   | 3,250.30                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 1,083.43                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 5,417.16                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 13,542.90                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 16,251.48                 |                         |
| For Forced Air Cooling, Add   | 8,667.46                  |                         |
| 26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....   | 166,032.88                | 6,677.36                |
| For 50 Hz Operation, Add  | 18,312.84                 |                         |
| For External Control Panel, Add   | 4,578.21                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 1,526.07                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 7,630.35                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 19,075.87                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 22,891.05                 |                         |
| For Forced Air Cooling, Add   | 12,208.56                 |                         |
| 26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....   | 176,857.18                | 8,872.48                |
| For 50 Hz Operation, Add  | 18,951.51                 |                         |
| For External Control Panel, Add   | 4,737.88                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 1,579.29                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 7,896.46                  |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 19,741.15                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 23,689.38                 |                         |
| For Forced Air Cooling, Add   | 12,634.34                 |                         |
| 26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....  | 230,170.86                | 8,872.48                |
| For 50 Hz Operation, Add  | 25,349.15                 |                         |
| For External Control Panel, Add   | 6,337.29                  |                         |
| For Internally Mounted Current Transformers And Linear Couplers, Add  | 2,112.43                  |                         |
| For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add  | 10,562.15                 |                         |
| For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add  | 26,405.36                 |                         |
| For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add  | 31,686.44                 |                         |
| For Forced Air Cooling, Add   | 16,899.43                 |                         |
| <b>26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)</b>  |                           |                         |
| 26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 62,424.78                 | 1,277.01                |
| 26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 68,469.69                 | 1,277.01                |
| 26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 78,027.69                 | 1,586.26                |
| 26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 73,197.77                 | 1,907.40                |
| 26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 82,329.88                 | 1,907.40                |
| 26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 93,948.19                 | 2,215.98                |
| 26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 96,987.50                 | 2,531.76                |
| 26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 108,357.50                | 2,531.76                |
| 26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....  | 113,678.31                | 2,843.19                |
| <b>26 11 16 Secondary Unit Substations (26 11)</b>  |                           |                         |
| <b>26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)</b>  |                           |                         |
| 26 11 16 11-0001 Substation Primary Incoming Section (26 11 16 11)  |                           |                         |
| 26 11 16 11-0002 Manual Transferring Fused Load Break Switches (26 11 16 11-0001)<br>Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line. |                           |                         |
| 26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position .....  | 39,690.73                 | 1,875.25                |
| 26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position .....   | 45,700.56                 | 1,875.25                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 11 16 11-0005</b> <b>Automatic Transferring Fused Load Break Switches</b> <small>(26 11 16 11-0001)</small><br>Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.   |                           |                         |
| 26 11 16 11-0006    EA    112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....   | 56,035.82                 | 1,875.25                |
| 26 11 16 11-0007    EA    2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....  | 59,947.05                 | 1,875.25                |
| <b>26 11 16 11-0008</b> <b>Accessories For Substation Fused Load Break Switches</b> <small>(26 11 16 11-0001)</small>   |                           |                         |
| 26 11 16 11-0009    EA    Primary Lightning Arrestors Accessories, Secondary Distribution Section .....   | 20,509.58                 |                         |
| 26 11 16 11-0010    EA    Key Interlock Accessories, Secondary Distribution Section.....  | 1,996.34                  |                         |
| <b>26 11 16 11-0011</b> <b>Oil Filled Substation Transformers</b> <small>(26 11 16 11)</small><br>Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof. |                           |                         |
| <b>26 11 16 11-0012</b> <b>Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ</b> <small>(26 11 16 11-0011)</small>  |                           |                         |
| 26 11 16 11-0013    EA    75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....   | 36,238.35                 | 1,164.66                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 2,373.63                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 1,017.27                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 339.09                    |                         |
| 26 11 16 11-0014    EA    112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 53,442.83                 | 1,397.58                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 3,545.34                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 1,519.43                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 506.48                    |                         |
| 26 11 16 11-0015    EA    150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 60,508.93                 | 1,552.87                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 4,018.22                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 1,722.10                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 574.03                    |                         |
| 26 11 16 11-0016    EA    225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 71,525.39                 | 1,941.10                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 4,735.02                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 2,029.30                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 676.43                    |                         |
| 26 11 16 11-0017    EA    300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 79,570.52                 | 2,406.95                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 5,232.96                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 2,242.70                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 747.57                    |                         |
| 26 11 16 11-0018    EA    500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 84,815.68                 | 2,950.46                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 5,524.03                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 2,367.44                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 789.15                    |                         |
| 26 11 16 11-0019    EA    750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 99,184.20                 | 3,571.61                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 6,442.87                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 2,761.23                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 920.41                    |                         |
| 26 11 16 11-0020    EA    1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 105,625.40                | 3,882.18                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 6,850.27                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 2,935.83                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 978.61                    |                         |
| 26 11 16 11-0021    EA    1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 118,079.61                | 4,270.41                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 7,667.72                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 3,286.16                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 1,095.39                  |                         |
| 26 11 16 11-0022    EA    2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 136,710.08                | 4,736.26                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 8,906.63                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 3,817.13                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 1,272.38                  |                         |
| 26 11 16 11-0023    EA    2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 150,146.02                | 5,163.31                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 9,787.36                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 4,194.58                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 1,398.19                  |                         |
| <b>26 11 16 11-0024</b> <b>Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ</b> <small>(26 11 16 11-0011)</small>   |                           |                         |
| 26 11 16 11-0025    EA    75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....   | 34,546.68                 | 1,164.66                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 2,255.22                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 966.52                    |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 322.17                    |                         |
| 26 11 16 11-0026    EA    112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 52,428.42                 | 1,164.66                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 3,506.94                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 1,502.97                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 500.99                    |                         |
| 26 11 16 11-0027    EA    150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 60,471.50                 | 1,552.87                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 4,015.60                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 1,720.97                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 573.66                    |                         |
| 26 11 16 11-0028    EA    225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....  | 71,589.80                 | 1,941.10                |
| For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add  | 4,739.53                  |                         |
| For Control Power Transformer On Fans And Auxiliary, Add  | 2,031.23                  |                         |
| For Internal Mounted Current Transformer And Linear Coupler, Add  | 677.08                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                      | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....<br><i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i><br><i>For Control Power Transformer On Fans And Auxiliary, Add</i><br><i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>   | 86,143.98<br>5,693.10<br>2,439.90<br>813.30    | 2,406.95                |
| 26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....<br><i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i><br><i>For Control Power Transformer On Fans And Auxiliary, Add</i><br><i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>   | 93,000.82<br>6,096.99<br>2,613.00<br>871.00    | 2,950.46                |
| 26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....<br><i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i><br><i>For Control Power Transformer On Fans And Auxiliary, Add</i><br><i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>   | 102,963.78<br>6,707.44<br>2,874.62<br>958.21   | 3,571.61                |
| 26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....<br><i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i><br><i>For Control Power Transformer On Fans And Auxiliary, Add</i><br><i>For Internal Mounted Current Transformer And Linear Coupler, Add</i> | 112,136.08<br>7,306.02<br>3,131.15<br>1,043.72 | 3,882.18                |
| 26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....<br><i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i><br><i>For Control Power Transformer On Fans And Auxiliary, Add</i><br><i>For Internal Mounted Current Transformer And Linear Coupler, Add</i> | 126,498.91<br>8,257.07<br>3,538.74<br>1,179.58 | 4,270.41                |
| <b>26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)</b>   |  |                         |
| 26 11 16 11-0035 EA Sudden Pressure Relay.....  | 10,277.70                                      |                         |
| 26 11 16 11-0036 EA Throats Or Flanges (HV Or LV).....  | 20,404.72                                      |                         |
| 26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole).....   | 13,435.72                                      |                         |
| 26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....   | 74,561.52                                      |                         |
| 26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout .....  | 69,759.72                                      |                         |
| <b>26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011)</b>  |  |                         |
| Note: For transformer liquid containment area.  |  |                         |
| 26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 7,902.35                                       | 1,329.43                |
| 26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area .....  | 9,678.35                                       | 1,532.85                |
| <b>26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11)</b>   |  |                         |
| Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.  |  |                         |
| <b>26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)</b>   |  |                         |
| Note: Primary 4.160 or 4.8 KV (delta or wye).   |  |                         |
| 26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 63,693.17                                      | 1,242.29                |
| <i>For Gas Filled Transformers, Add</i>   | 36,725.14                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -1,530.21                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 13,714.35                                      |                         |
| 26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 63,848.46                                      | 1,319.94                |
| <i>For Gas Filled Transformers, Add</i>   | 36,725.14                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -1,530.21                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 13,729.87                                      |                         |
| 26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 65,111.60                                      | 1,552.87                |
| <i>For Gas Filled Transformers, Add</i>   | 37,203.51                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -1,550.15                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 13,951.86                                      |                         |
| 26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 71,869.48                                      | 1,708.16                |
| <i>For Gas Filled Transformers, Add</i>   | 41,071.89                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -1,711.33                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 15,401.33                                      |                         |
| 26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 79,697.54                                      | 2,018.73                |
| <i>For Gas Filled Transformers, Add</i>   | 45,396.04                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -1,891.50                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 17,048.96                                      |                         |
| 26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 92,340.68                                      | 2,329.31                |
| <i>For Gas Filled Transformers, Add</i>   | 52,609.24                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -2,192.05                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 19,755.92                                      |                         |
| 26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 107,158.91                                     | 2,795.18                |
| <i>For Gas Filled Transformers, Add</i>   | 60,941.14                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -2,539.21                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 22,904.12                                      |                         |
| 26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 126,776.68                                     | 3,105.75                |
| <i>For Gas Filled Transformers, Add</i>   | 72,339.11                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -3,014.13                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 27,145.49                                      |                         |
| 26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....  | 164,722.68                                     | 3,261.04                |
| <i>For Gas Filled Transformers, Add</i>   | 94,920.37                                      |                         |
| <i>For Single Phase Transformers, Deduct</i>  | -3,955.02                                      |                         |
| <i>For Dry Type Unit, Add</i>   | 35,456.34                                      |                         |



**26 Electrical****26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 26 11 16 11-0060 |     | <b>Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt</b> <small>(26 11 16 11-0049)</small>              |                           |                         |
|                  |     | Note: Primary 4.16 or 4.8 KV (delta or wye).   |                           |                         |
| 26 11 16 11-0061 | EA  | 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 61,521.05                 | 1,242.29                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 35,421.87                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,475.91                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 13,236.48                 |                         |
| 26 11 16 11-0062 | EA  | 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....   | 63,848.46                 | 1,319.94                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 36,725.14                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,530.21                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 13,729.87                 |                         |
| 26 11 16 11-0063 | EA  | 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....   | 65,111.60                 | 1,552.87                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 37,203.51                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,550.15                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 13,951.86                 |                         |
| 26 11 16 11-0064 | EA  | 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....   | 71,869.48                 | 1,708.16                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 41,071.89                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,711.33                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 15,401.33                 |                         |
| 26 11 16 11-0065 | EA  | 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....   | 79,697.54                 | 2,018.73                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 45,396.04                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,891.50                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 17,048.96                 |                         |
| 26 11 16 11-0066 | EA  | 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....   | 92,340.68                 | 2,329.31                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 52,609.24                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -2,192.05                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 19,755.92                 |                         |
| 26 11 16 11-0067 | EA  | 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 107,158.91                | 2,795.18                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 60,941.14                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -2,539.21                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 22,904.12                 |                         |
| 26 11 16 11-0068 | EA  | 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 126,776.68                | 3,105.75                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 72,339.11                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -3,014.13                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 27,145.49                 |                         |
| 26 11 16 11-0069 | EA  | 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 164,722.68                | 3,261.04                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 94,920.37                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -3,955.02                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 35,456.34                 |                         |
| 26 11 16 11-0070 | EA  | 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 180,890.99                | 3,416.33                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 104,435.00                |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -4,351.46                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 38,976.10                 |                         |
| 26 11 16 11-0071 | EA  | 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 202,025.03                | 3,571.61                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 116,929.09                |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -4,872.05                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 43,588.32                 |                         |
| 26 11 16 11-0072 | EA  | 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer ..... | 233,071.73                | 3,726.89                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 135,370.76                |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -5,640.45                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 50,381.32                 |                         |
| 26 11 16 11-0073 |     | <b>Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt</b> <small>(26 11 16 11-0049)</small>      |                           |                         |
| 26 11 16 11-0074 | EA  | 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....        | 68,498.66                 | 1,397.58                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 39,422.09                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,642.59                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 14,734.28                 |                         |
| 26 11 16 11-0075 | EA  | 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....          | 70,813.50                 | 1,475.23                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 40,717.82                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,696.58                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 15,224.91                 |                         |
| 26 11 16 11-0076 | EA  | 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....          | 75,705.22                 | 1,708.16                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 43,373.33                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,807.22                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 16,245.19                 |                         |
| 26 11 16 11-0077 | EA  | 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....          | 79,908.02                 | 1,863.45                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 45,708.68                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -1,904.53                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 17,132.54                 |                         |
| 26 11 16 11-0078 | EA  | 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....          | 91,101.00                 | 2,174.02                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 52,051.77                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -2,168.82                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 19,520.45                 |                         |
| 26 11 16 11-0079 | EA  | 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....          | 100,931.68                | 2,484.60                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 57,577.49                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -2,399.06                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 21,608.67                 |                         |
| 26 11 16 11-0080 | EA  | 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....        | 117,840.41                | 2,950.46                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 67,163.69                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -2,798.49                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 25,216.78                 |                         |
| 26 11 16 11-0081 | EA  | 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....        | 142,913.60                | 3,261.04                |
|                  |     | <i>For Gas Filled Transformers, Add</i>  | 81,834.92                 |                         |
|                  |     | <i>For Single Phase Transformers, Deduct</i>   | -3,409.79                 |                         |
|                  |     | <i>For Dry Type Unit, Add</i>  | 30,658.34                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                          | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 11 16 11-0082 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 172,930.74<br>99,658.85<br>-4,152.45<br>37,224.84  | 3,416.33                |
| <b>26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt</b> <small>(26 11 16 11-0049)</small>  |  |                         |
| 26 11 16 11-0084 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 68,498.66<br>39,422.09<br>-1,642.59<br>14,734.28   | 1,397.58                |
| 26 11 16 11-0085 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i>   | 70,813.50<br>40,717.82<br>-1,696.58<br>15,224.91   | 1,475.23                |
| 26 11 16 11-0086 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i>   | 75,705.22<br>43,373.33<br>-1,807.22<br>16,245.19   | 1,708.16                |
| 26 11 16 11-0087 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i>   | 79,908.02<br>45,708.68<br>-1,904.53<br>17,132.54   | 1,863.45                |
| 26 11 16 11-0088 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i>   | 91,101.00<br>52,051.77<br>-2,168.82<br>19,520.45   | 2,174.02                |
| 26 11 16 11-0089 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i>   | 88,376.08<br>50,044.13<br>-2,085.17<br>18,846.43   | 2,484.60                |
| 26 11 16 11-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 92,046.32<br>51,687.24<br>-2,153.64<br>19,542.08   | 2,950.46                |
| 26 11 16 11-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 113,360.96<br>64,103.33<br>-2,670.97<br>24,156.76  | 3,261.04                |
| 26 11 16 11-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 134,626.61<br>76,676.38<br>-3,194.85<br>28,797.94  | 3,416.33                |
| 26 11 16 11-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 150,602.62<br>86,075.64<br>-3,586.49<br>32,275.39  | 3,571.61                |
| 26 11 16 11-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 177,012.58<br>101,735.27<br>-4,238.97<br>38,048.31 | 3,726.89                |
| 26 11 16 11-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....<br><i>For Gas Filled Transformers, Add</i><br><i>For Single Phase Transformers, Deduct</i><br><i>For Dry Type Unit, Add</i> | 217,373.21<br>125,765.30<br>-5,240.22<br>46,890.38 | 3,882.18                |

## 26 12 Medium-Voltage Transformers (26 10)

### 26 12 13 Liquid-Filled, Medium-Voltage Transformers (26 12)

#### 26 12 13 00-0001 Removal And Relocation Of Transformers (26 12 13)

|  |          |
|--|----------|
| 26 12 13 00-0002 EA Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer .....    | 1,579.56 |
| 26 12 13 00-0003 EA Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers ..... | 2,906.83 |

#### 26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

#### 26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)

|  |           |          |
|--|-----------|----------|
| 26 12 13 00-0006 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....   | 7,697.06  | 636.13   |
| 26 12 13 00-0007 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....   | 9,220.69  | 795.16   |
| 26 12 13 00-0008 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....   | 10,704.83 | 954.19   |
| 26 12 13 00-0009 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase ..... | 13,877.15 | 1,192.74 |
| 26 12 13 00-0010 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....   | 16,463.97 | 1,431.28 |
| 26 12 13 00-0011 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....   | 22,999.41 | 1,669.82 |
| 26 12 13 00-0012 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase .....  | 27,238.74 | 1,987.88 |

#### 26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA (26 12 13 00-0004)

|  |          |        |
|--|----------|--------|
| 26 12 13 00-0014 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase ..... | 7,697.06 | 636.13 |
| 26 12 13 00-0015 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase ..... | 9,397.11 | 795.16 |

**26 Electrical****26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 12 13 00-0016 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 10,704.83                 | 954.19                  |
| 26 12 13 00-0017 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                    | 13,877.15                 | 1,192.74                |
| 26 12 13 00-0018 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 16,463.97                 | 1,431.28                |
| 26 12 13 00-0019 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 21,185.97                 | 1,669.82                |
| 26 12 13 00-0020 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 26,317.86                 | 1,987.88                |
| <b>26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps<br/>FCBN And FCAN</b> <small>(26 12 13 00-0004)</small>      |                           |                         |
| 26 12 13 00-0022 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 7,491.23                  | 636.13                  |
| 26 12 13 00-0023 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 8,662.01                  | 795.16                  |
| 26 12 13 00-0024 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 10,152.30                 | 954.19                  |
| 26 12 13 00-0025 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                   | 13,749.64                 | 1,192.74                |
| 26 12 13 00-0026 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 15,925.61                 | 1,431.28                |
| 26 12 13 00-0027 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 21,525.99                 | 1,669.82                |
| 26 12 13 00-0028 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                    | 26,402.86                 | 1,987.88                |
| <b>26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent<br/>Taps FCBN And FCAN</b> <small>(26 12 13 00-0004)</small> |                           |                         |
| 26 12 13 00-0030 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 8,446.86                  | 636.13                  |
| 26 12 13 00-0031 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 9,647.05                  | 795.16                  |
| 26 12 13 00-0032 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 12,732.92                 | 954.19                  |
| 26 12 13 00-0033 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                   | 16,046.91                 | 1,192.74                |
| 26 12 13 00-0034 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 18,500.87                 | 1,431.28                |
| 26 12 13 00-0035 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                     | 25,334.63                 | 1,669.82                |
| 26 12 13 00-0036 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                    | 32,551.27                 | 1,987.88                |
| <b>26 12 13 00-0037 Transformer Platforms</b> <small>(26 12 13 00-0004)</small>  |                           |                         |
| 26 12 13 00-0038 EA Transformer Platforms, 75 - 167 KVA.....   | 5,858.87                  | 1,074.26                |
| <b>26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops<br/>FCBN Auto FCAN</b> <small>(26 12 13 00-0004)</small>    |                           |                         |
| 26 12 13 00-0040 EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                            | 9,318.30                  | 636.13                  |
| 26 12 13 00-0041 EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                            | 10,438.29                 | 795.16                  |
| 26 12 13 00-0042 EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                            | 12,734.45                 | 954.19                  |
| 26 12 13 00-0043 EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                          | 16,045.03                 | 1,192.74                |
| 26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                            | 18,659.25                 | 1,510.79                |
| 26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                            | 25,339.30                 | 1,669.82                |
| 26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                           | 32,551.27                 | 1,987.88                |
| 26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                           | 43,554.97                 | 2,544.49                |
| 26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                           | 55,729.43                 | 3,419.17                |
| 26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                           | 65,289.65                 | 3,975.78                |
| 26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                           | 83,033.64                 | 4,293.84                |
| <b>26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN,<br/>Class A, 95 KV BIL</b> <small>(26 12 13 00-0004)</small> |                           |                         |
| 26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                             | 7,697.06                  | 778.94                  |
| 26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                             | 9,220.69                  | 973.58                  |
| 26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                             | 10,704.19                 | 1,167.13                |
| 26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                           | 13,878.68                 | 1,462.61                |
| 26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                             | 16,462.50                 | 1,752.04                |
| 26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                             | 22,997.41                 | 2,040.53                |
| 26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....                            | 27,238.74                 | 2,434.13                |
| <b>26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN<br/>And FCBN</b> <small>(26 12 13 00-0004)</small>            |                           |                         |
| 26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                             | 7,697.06                  | 778.94                  |
| 26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                             | 9,397.11                  | 973.58                  |
| 26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                             | 10,704.19                 | 1,167.13                |
| 26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                           | 13,878.68                 | 1,462.61                |
| 26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                             | 16,462.50                 | 1,752.04                |
| 26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                             | 21,183.97                 | 2,040.53                |
| 26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                            | 26,317.86                 | 2,434.13                |
| <b>26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y</b> <small>(26 12 13 00-0004)</small>  |                           |                         |
| <b>26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent<br/>Taps FCBN And FCAN</b> <small>(26 12 13 00-0067)</small> |                           |                         |
| 26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 6,150.67                  | 636.13                  |
| 26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 7,324.12                  | 795.16                  |
| 26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 8,455.31                  | 954.19                  |
| 26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                    | 11,076.46                 | 1,192.74                |
| 26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 13,888.30                 | 1,431.28                |



|                         | MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|--|-----|-----|--|------------------------|----------------------|
|                         | 26 12 13 00-0074   | EA  |     | 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                        | 22,044.72              | 1,669.82             |
|                         | 26 12 13 00-0075   | EA  |     | 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....                       | 25,360.62              | 1,987.88             |
| <b>26 12 13 00-0076</b> | <b>Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small></b>  |     |     |  |                        |                      |
|                         | 26 12 13 00-0077   | EA  |     | 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                        | 5,682.87               | 636.13               |
|                         | 26 12 13 00-0078   | EA  |     | 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                        | 6,736.04               | 795.16               |
|                         | 26 12 13 00-0079   | EA  |     | 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                        | 8,188.00               | 954.19               |
|                         | 26 12 13 00-0080   | EA  |     | 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                      | 10,541.84              | 1,192.74             |
|                         | 26 12 13 00-0081   | EA  |     | 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                        | 13,153.19              | 1,431.28             |
|                         | 26 12 13 00-0082   | EA  |     | 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                        | 19,371.61              | 1,669.82             |
|                         | 26 12 13 00-0083   | EA  |     | 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....                       | 22,687.52              | 1,987.88             |
| <b>26 12 13 00-0084</b> | <b>3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small></b>  |     |     |  |                        |                      |
| <b>26 12 13 00-0085</b> | <b>Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small></b>   |     |     |  |                        |                      |
|                         | Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.   |     |     |  |                        |                      |
|                         | 26 12 13 00-0086   | EA  |     | 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....                     | 28,006.86              | 2,226.43             |
|                         | 26 12 13 00-0087   | EA  |     | 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....                       | 35,079.38              | 2,385.46             |
|                         | 26 12 13 00-0088   | EA  |     | 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....                       | 46,569.90              | 3,021.59             |
|                         | 26 12 13 00-0089   | EA  |     | 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....                       | 60,803.16              | 3,816.75             |
|                         | 26 12 13 00-0090   | EA  |     | 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....                       | 89,641.12              | 4,293.84             |
|                         | 26 12 13 00-0091   | EA  |     | 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....                       | 136,840.61             | 5,725.11             |
| <b>26 12 16</b>         | <b>Dry-Type, Medium-Voltage Transformers <small>(26 12)</small></b>  |     |     |  |                        |                      |
| <b>26 12 16 00-0001</b> | <b>Removal and Relocation of Transformers <small>(26 12 16)</small></b>  |     |     |  |                        |                      |
|                         | 26 12 16 00-0002   | EA  |     | Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer .....  | 644.44                 |                      |
|                         | 26 12 16 00-0003   | EA  |     | Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer.....   | 2,864.19               |                      |
| <b>26 12 19</b>         | <b>Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers <small>(26 12)</small></b>  |     |     |  |                        |                      |
| <b>26 12 19 00-0001</b> | <b>Single Phase Pad Mounted Distribution Transformers <small>(26 12 19)</small></b>  |     |     |  |                        |                      |
|                         | Note: Designed for residential and multi-family buildings. UL listed.  |     |     |  |                        |                      |
| <b>26 12 19 00-0002</b> | <b>Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled <small>(26 12 19 00-0001)</small></b>  |     |     |  |                        |                      |
|                         | Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.  |     |     |  |                        |                      |
| <b>26 12 19 00-0003</b> | <b>Primary, 4.16/4.8 KV Ground Y Or Delta <small>(26 12 19 00-0002)</small></b>  |     |     |  |                        |                      |
|                         | Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.  |     |     |  |                        |                      |
|                         | 26 12 19 00-0004   | EA  |     | 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....   | 18,192.17              | 776.44               |
|                         | 26 12 19 00-0005   | EA  |     | 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt ..... | 19,763.45              | 931.73               |
|                         | 26 12 19 00-0006   | EA  |     | 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....   | 23,567.41              | 1,087.02             |
|                         | 26 12 19 00-0007   | EA  |     | 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....   | 29,222.62              | 1,164.66             |
|                         | 26 12 19 00-0008   | EA  |     | 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....  | 33,203.32              | 1,242.29             |
|                         | 26 12 19 00-0009   | EA  |     | 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....  | 43,449.43              | 1,630.52             |
| <b>26 12 19 00-0010</b> | <b>Factory Modifications Material Cost Only <small>(26 12 19 00-0002)</small></b>  |     |     |  |                        |                      |
|                         | 26 12 19 00-0011   | EA  |     | Loadbreaker Current Limiting Fuse Factory Modifications.....   | 3,984.20               |                      |
|                         | 26 12 19 00-0012   | EA  |     | Loadbreaker Oil Switch, 2 Position Factory Modifications .....   | 4,186.29               |                      |
|                         | 26 12 19 00-0013   | EA  |     | Loadbreaker Inserts, Factory Modifications .....   | 4,604.92               |                      |
| <b>26 12 19 00-0014</b> | <b>Distribution - Single Phase Multiple Building Transformer <small>(26 12 19 00-0001)</small></b>   |     |     |  |                        |                      |
|                         | Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below. |     |     |  |                        |                      |
| <b>26 12 19 00-0015</b> | <b>Primary, 4.16/4.8 KVA Ground Y Or Delta <small>(26 12 19 00-0014)</small></b>   |     |     |  |                        |                      |
|                         | Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.  |     |     |  |                        |                      |
|                         | 26 12 19 00-0016   | EA  |     | 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....   | 22,982.98              | 776.44               |
|                         | 26 12 19 00-0017   | EA  |     | 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt ..... | 25,817.54              | 776.44               |
|                         | 26 12 19 00-0018   | EA  |     | 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....   | 27,697.71              | 1,063.72             |
|                         | 26 12 19 00-0019   | EA  |     | 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....   | 34,703.32              | 1,063.72             |
|                         | 26 12 19 00-0020   | EA  |     | 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....  | 38,978.45              | 1,397.58             |
|                         | 26 12 19 00-0021   | EA  |     | 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....  | 46,738.79              | 1,397.58             |

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 12 Medium-Voltage Transformers**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 12 19 00-0022 EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt ..... | 75,736.44                 | 1,941.10                |
| <b>26 12 19 00-0023 Factory Modifications Material Cost Only (26 12 19 00-0014)</b>   |                           |                         |
| 26 12 19 00-0024 EA Loadbreaker Current Limiting Fuse Factory Modifications .....   | 5,312.26                  |                         |
| 26 12 19 00-0025 EA Lightning Arrestors, Factory Modifications .....  | 1,345.98                  |                         |
| 26 12 19 00-0026 EA Loadbreaker Oil Switch, 2 Position Factory Modifications .....  | 4,186.29                  |                         |
| 26 12 19 00-0027 EA Loop Feed Air Switch, Factory Modifications .....   | 6,813.55                  |                         |
| 26 12 19 00-0028 EA Loadbreaker Inserts (Two), Factory Modifications .....  | 1,818.87                  |                         |
| 26 12 19 00-0029 EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications .....  | 1,573.47                  |                         |
| <b>26 12 19 00-0030 Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014)</b>  |                           |                         |
| Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.                                 |                           |                         |
| 26 12 19 00-0031 EA 25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....        | 24,940.86                 | 776.44                  |
| 26 12 19 00-0032 EA 37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....      | 26,478.65                 | 776.44                  |
| 26 12 19 00-0033 EA 50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....        | 27,441.61                 | 1,063.72                |
| 26 12 19 00-0034 EA 75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....        | 33,153.09                 | 1,063.72                |
| 26 12 19 00-0035 EA 100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....       | 42,214.95                 | 1,397.58                |
| 26 12 19 00-0036 EA 167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....       | 52,464.86                 | 1,397.74                |
| 26 12 19 00-0037 EA 250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....       | 66,616.97                 | 1,941.10                |
| <b>26 12 19 00-0038 Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001)</b>   |                           |                         |
| Note: Conventional type.  |                           |                         |
| <b>26 12 19 00-0039 13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038)</b>  |                           |                         |
| Note: 2.5 Taps FCBN and FCAN.   |                           |                         |
| 26 12 19 00-0040 EA 10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                        | 16,574.30                 | 535.79                  |
| 26 12 19 00-0041 EA 37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                      | 20,477.21                 | 753.45                  |
| 26 12 19 00-0042 EA 50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                        | 31,429.60                 | 1,205.52                |
| 26 12 19 00-0043 EA 100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                       | 56,671.02                 | 1,205.52                |
| 26 12 19 00-0044 EA 167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                       | 78,205.18                 | 1,975.72                |
| 26 12 19 00-0045 EA 250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                       | 105,354.55                | 1,975.72                |
| <b>26 12 19 00-0046 Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)</b>   |                           |                         |
| <b>26 12 19 00-0047 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)</b>   |                           |                         |
| 26 12 19 00-0048 EA 10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 16,053.02                 | 569.27                  |
| 26 12 19 00-0049 EA 15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 17,513.40                 | 569.27                  |
| 26 12 19 00-0050 EA 25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 20,685.70                 | 803.68                  |
| 26 12 19 00-0051 EA 37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                              | 26,574.46                 | 803.68                  |
| 26 12 19 00-0052 EA 50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 30,592.99                 | 1,088.32                |
| 26 12 19 00-0053 EA 100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                               | 55,339.72                 | 1,674.33                |
| 26 12 19 00-0054 EA 167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                               | 77,162.62                 | 1,674.33                |
| 26 12 19 00-0055 EA 250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                               | 103,745.25                | 2,092.92                |
| <b>26 12 19 00-0056 7.2 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)</b>   |                           |                         |
| 26 12 19 00-0057 EA 10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 16,053.02                 | 569.27                  |
| 26 12 19 00-0058 EA 15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 17,513.93                 | 569.27                  |
| 26 12 19 00-0059 EA 25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 20,685.70                 | 803.68                  |
| 26 12 19 00-0060 EA 37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                              | 26,574.46                 | 803.68                  |
| 26 12 19 00-0061 EA 50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 30,592.99                 | 1,088.32                |
| 26 12 19 00-0062 EA 75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                | 47,568.63                 | 1,473.41                |
| 26 12 19 00-0063 EA 100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                               | 55,339.72                 | 1,473.41                |
| 26 12 19 00-0064 EA 167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                               | 77,162.62                 | 1,858.51                |
| 26 12 19 00-0065 EA 250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                               | 103,745.25                | 2,092.92                |
| <b>26 12 19 00-0066 2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)</b>   |                           |                         |
| 26 12 19 00-0067 EA 10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                    | 17,688.85                 | 569.27                  |
| 26 12 19 00-0068 EA 15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                    | 19,296.13                 | 569.27                  |
| 26 12 19 00-0069 EA 25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                    | 22,799.32                 | 803.68                  |
| 26 12 19 00-0070 EA 37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                  | 29,274.54                 | 803.68                  |
| 26 12 19 00-0071 EA 50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                    | 33,696.53                 | 1,088.32                |
| 26 12 19 00-0072 EA 75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                    | 52,215.88                 | 1,473.41                |
| 26 12 19 00-0073 EA 100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                   | 61,056.32                 | 1,473.41                |
| 26 12 19 00-0074 EA 167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                   | 85,186.35                 | 1,858.51                |
| 26 12 19 00-0075 EA 250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....                                   | 114,622.37                | 2,092.92                |



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| <b>26 12 19 00-0076 2.4 KV Primary, 120/240 Volt Secondary</b> <small>(26 12 19 00-0046)</small>   |     |     |  |                        |                      |
| 26 12 19 00-0076   | EA  |     | 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 16,053.02              | 569.27               |
| 26 12 19 00-0078   | EA  |     | 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 17,513.40              | 569.27               |
| 26 12 19 00-0079   | EA  |     | 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 20,685.70              | 1,093.51             |
| 26 12 19 00-0080   | EA  |     | 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....             | 26,574.46              | 1,473.41             |
| 26 12 19 00-0081   | EA  |     | 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 30,592.99              | 1,088.32             |
| 26 12 19 00-0082   | EA  |     | 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 47,336.45              | 1,473.41             |
| 26 12 19 00-0083   | EA  |     | 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....              | 55,329.03              | 1,473.41             |
| <b>26 12 19 00-0084 2.4 KV Primary, 240/480 Volt Secondary</b> <small>(26 12 19 00-0046)</small>   |     |     |  |                        |                      |
| 26 12 19 00-0085   | EA  |     | 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 16,053.02              | 569.27               |
| 26 12 19 00-0086   | EA  |     | 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 17,513.40              | 569.27               |
| 26 12 19 00-0087   | EA  |     | 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 20,685.70              | 803.68               |
| 26 12 19 00-0088   | EA  |     | 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....             | 26,574.46              | 803.68               |
| 26 12 19 00-0089   | EA  |     | 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 30,592.99              | 1,088.32             |
| 26 12 19 00-0090   | EA  |     | 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....               | 47,336.45              | 1,473.41             |
| 26 12 19 00-0091   | EA  |     | 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....              | 55,329.03              | 1,473.41             |
| <b>26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary</b> <small>(26 12 19 00-0046)</small>  |     |     |  |                        |                      |
| 26 12 19 00-0093   | EA  |     | 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....       | 13,510.50              | 586.02               |
| 26 12 19 00-0094   | EA  |     | 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....       | 14,641.83              | 652.99               |
| 26 12 19 00-0095   | EA  |     | 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....       | 17,913.55              | 719.97               |
| 26 12 19 00-0096   | EA  |     | 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....       | 22,658.16              | 1,004.60             |
| 26 12 19 00-0097   | EA  |     | 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....       | 25,176.45              | 1,172.03             |
| 26 12 19 00-0098   | EA  |     | 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....       | 35,184.82              | 1,372.95             |
| 26 12 19 00-0099   | EA  |     | 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....      | 42,470.76              | 1,573.87             |
| 26 12 19 00-0100   | EA  |     | 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....      | 67,210.14              | 2,009.20             |
| 26 12 19 00-0101   | EA  |     | 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....      | 93,696.54              | 2,260.35             |
| <b>26 13 Medium-Voltage Switchgear</b> <small>(26 10)</small>  |     |     |  |                        |                      |
| <b>26 13 16 Medium-Voltage Fusible Interrupter Switchgear</b> <small>(26 13)</small>   |     |     |  |                        |                      |
| <b>26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section</b> <small>(26 13 16)</small>  |     |     |  |                        |                      |
| Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals. |     |     |  |                        |                      |
| <b>26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section</b> <small>(26 13 16 00-0001)</small>     |     |     |  |                        |                      |
| 26 13 16 00-0003   | EA  |     | 1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... | 14,331.01              | 1,741.30             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 2,908.65               |                      |
| 26 13 16 00-0004   | EA  |     | 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... | 14,993.70              | 1,741.30             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 3,054.44               |                      |
| 26 13 16 00-0005   | EA  |     | 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... | 20,271.31              | 2,218.49             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 4,165.95               |                      |
| 26 13 16 00-0006   | EA  |     | 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... | 27,348.73              | 2,218.49             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 5,685.64               |                      |
| 26 13 16 00-0007   | EA  |     | 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... | 38,807.12              | 2,678.93             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 8,161.91               |                      |
| 26 13 16 00-0008   | EA  |     | 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... | 35,620.98              | 2,678.93             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 7,441.99               |                      |
| <b>26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section</b> <small>(26 13 16 00-0001)</small>             |     |     |  |                        |                      |
| 26 13 16 00-0010   | EA  |     | 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....        | 21,008.15              | 2,009.20             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 4,352.36               |                      |
| 26 13 16 00-0011   | EA  |     | 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....        | 25,881.33              | 2,511.50             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 5,341.93               |                      |
| 26 13 16 00-0012   | EA  |     | 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....        | 36,058.62              | 3,013.80             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 7,521.66               |                      |
| <b>26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section</b> <small>(26 13 16 00-0001)</small>            |     |     |  |                        |                      |
| 26 13 16 00-0014   | EA  |     | 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....       | 20,386.25              | 2,009.20             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 4,193.42               |                      |
| 26 13 16 00-0015   | EA  |     | 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....       | 27,821.17              | 2,009.20             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 5,780.94               |                      |
| 26 13 16 00-0016   | EA  |     | 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....     | 40,237.68              | 2,678.93             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 8,457.67               |                      |
| 26 13 16 00-0017   | EA  |     | 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....       | 25,667.30              | 2,678.93             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 5,274.73               |                      |
| 26 13 16 00-0018   | EA  |     | 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....       | 36,794.87              | 3,348.67             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 7,674.79               |                      |
| 26 13 16 00-0019   | EA  |     | 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....     | 51,025.05              | 3,348.67             |
|  |     |     | <i>For Weatherproofing, Add</i>  | 10,754.81              |                      |

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 13 Medium-Voltage Switchgear**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 13 16 00-0020        | EA  |     | 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....<br><i>For Weatherproofing, Add</i>  | 35,543.63<br>7,385.51  | 3,348.67             |
| 26 13 16 00-0021        | EA  |     | 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....<br><i>For Weatherproofing, Add</i>  | 48,810.97<br>10,256.10 | 3,348.67             |
| 26 13 16 00-0022        | EA  |     | 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 62,882.45<br>13,306.20 | 3,348.67             |
| <b>26 13 16 00-0023</b> |     |     | <b>4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section</b> <small>(26 13 16 00-0001)</small>  |                        |                      |
| 26 13 16 00-0024        | EA  |     | 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 6,609.20<br>1,300.21   | 1,096.69             |
| 26 13 16 00-0025        | EA  |     | 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 8,405.78<br>1,695.46   | 1,096.69             |
| 26 13 16 00-0026        | EA  |     | 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 9,263.84<br>1,834.57   | 1,456.67             |
| 26 13 16 00-0027        | EA  |     | 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 11,479.14<br>2,273.36  | 1,799.91             |
| 26 13 16 00-0028        | EA  |     | 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 15,115.27<br>3,073.31  | 1,799.91             |
| <b>26 13 16 00-0029</b> |     |     | <b>7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section</b> <small>(26 13 16 00-0001)</small>  |                        |                      |
| 26 13 16 00-0030        | EA  |     | 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 8,283.76<br>1,647.24   | 1,674.33             |
| 26 13 16 00-0031        | EA  |     | 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 10,819.82<br>2,155.83  | 1,674.33             |
| 26 13 16 00-0032        | EA  |     | 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>   | 16,227.13<br>3,296.77  | 1,674.33             |
| <b>26 13 16 00-0033</b> |     |     | <b>13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section</b> <small>(26 13 16 00-0001)</small>   |                        |                      |
| 26 13 16 00-0034        | EA  |     | 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 8,614.07<br>1,696.78   | 1,423.19             |
| 26 13 16 00-0035        | EA  |     | 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 9,134.02<br>1,811.17   | 1,423.19             |
| 26 13 16 00-0036        | EA  |     | 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 12,938.95<br>2,599.30  | 1,758.05             |
| 26 13 16 00-0037        | EA  |     | 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 11,840.40<br>2,308.92  | 2,109.66             |
| 26 13 16 00-0038        | EA  |     | 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 14,290.63<br>2,847.97  | 2,109.66             |
| 26 13 16 00-0039        | EA  |     | 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 16,453.59<br>3,274.06  | 2,461.27             |
| 26 13 16 00-0040        | EA  |     | 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 15,700.00<br>3,059.38  | 2,812.88             |
| 26 13 16 00-0041        | EA  |     | 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 17,378.97<br>3,428.75  | 2,812.88             |
| 26 13 16 00-0042        | EA  |     | 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....<br><i>For Weatherproofing, Add</i>  | 21,240.29<br>4,228.91  | 3,147.75             |
| <b>26 13 16 00-0043</b> |     |     | <b>Accessories For Substation Secondary Distribution Sections</b> <small>(26 13 16 00-0001)</small>  |                        |                      |
| 26 13 16 00-0044        | EA  |     | 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4,403.45<br>636.63     | 1,061.02             |
| 26 13 16 00-0045        | EA  |     | 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 5,419.57<br>706.47     | 1,177.39             |
| 26 13 16 00-0046        | EA  |     | 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7,005.22<br>849.92     | 1,416.48             |
| 26 13 16 00-0047        | EA  |     | 3-Phase Pothead Termination Accessories, Secondary Distribution Section .....  | 5,136.44               | 2,130.25             |
| 26 13 16 00-0048        | EA  |     | 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....   | 4,811.38               | 140.55               |
| 26 13 16 00-0049        | EA  |     | 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....   | 6,398.37               | 140.55               |
| 26 13 16 00-0050        | EA  |     | 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....   | 11,647.13              | 140.55               |
| 26 13 16 00-0051        | EA  |     | 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....  | 9,171.27               | 140.55               |
| 26 13 16 00-0052        | EA  |     | 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....  | 10,004.35              | 140.55               |
| 26 13 16 00-0053        | EA  |     | 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....  | 13,587.71              | 140.55               |
| 26 13 16 00-0054        | EA  |     | 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section .....   | 2,225.45               | 140.55               |
| 26 13 16 00-0055        | EA  |     | 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section .....   | 2,504.40               | 140.55               |
| 26 13 16 00-0056        | EA  |     | 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section .....  | 3,760.42               | 140.55               |
| 26 13 16 00-0057        | EA  |     | Overcurrent Phase Protection, Time And Instantaneous Device 67 .....   | 2,437.30               | 140.55               |
|                         |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                  |                      |
| 26 13 16 00-0058        | EA  |     | AC Ammeter With Switch.....  | 1,004.86               | 140.55               |
|                         |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                  |                      |
| 26 13 16 00-0059        | EA  |     | AC Voltmeter With Switch And Potential Transformer.....  | 1,004.86               | 140.55               |
|                         |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                  |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 13 16 00-0060 EA Indicating Wattmeter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                | 1,445.15<br>84.33         | 140.55                  |
| 26 13 16 00-0061 EA Indicating Varmeter.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | 1,689.41<br>84.33         | 140.55                  |
| 26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>               | 1,092.31<br>84.33         | 140.55                  |
| 26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,809.77<br>84.33         | 140.55                  |
| 26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87 .....  | 4,553.54                  | 140.55                  |
| 26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary .....  | 708.57                    | 140.55                  |
| 26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses .....   | 3,066.82                  | 140.55                  |
| <b>26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)</b>   |                           |                         |
| <b>26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)</b>   |                           |                         |
| 26 13 19 00-0002 EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 49,390.42                 | 2,092.92                |
| 26 13 19 00-0003 EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 54,618.44                 | 2,645.45                |
| 26 13 19 00-0004 EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 62,044.63                 | 2,645.45                |
| 26 13 19 00-0005 EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 56,451.69                 | 2,092.92                |
| 26 13 19 00-0006 EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 63,350.13                 | 2,092.92                |
| 26 13 19 00-0007 EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 72,233.71                 | 2,461.27                |
| 26 13 19 00-0008 EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 74,690.17                 | 2,812.88                |
| 26 13 19 00-0009 EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 81,623.65                 | 2,812.88                |
| 26 13 19 00-0010 EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....  | 89,237.26                 | 3,164.49                |
| <b>26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)</b>  |                           |                         |
| <b>26 13 29 00-0001 Substation Secondary Distribution Section (26 13 29)</b><br>Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.                             |                           |                         |
| <b>26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001)</b><br>Note: With solid state long - time and instantaneous trips.             |                           |                         |
| 26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....   | 15,817.61                 | 1,325.96                |
| 26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....   | 25,225.54                 | 2,004.72                |
| 26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....   | 34,173.78                 | 2,462.49                |
| 26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....   | 56,181.47                 | 2,857.12                |
| 26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....   | 72,045.72                 | 3,251.75                |
| <b>26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)</b>  |                           |                         |
| 26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....   | 7,012.47                  | 402.53                  |
| 26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....   | 8,102.64                  | 402.53                  |
| 26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....   | 10,598.77                 | 591.94                  |
| 26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....   | 15,053.00                 | 591.94                  |
| 26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....   | 25,037.99                 | 868.18                  |
| <b>26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001)</b><br>Note: No provisions for future breaker.                                 |                           |                         |
| 26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section .....   | 7,970.22                  | 449.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 257.24                    |                         |
| 26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....   | 10,008.96                 | 449.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 301.98                    |                         |
| 26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....   | 12,991.86                 | 694.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 434.09                    |                         |
| <b>26 13 29 00-0018 Accessories For Substation Secondary Distribution (26 13 29 00-0001)</b>   |                           |                         |
| 26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section.....  | 4,437.08                  |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section.....   | 3,438.89                  |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....   | 11,028.88                 | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....   | 11,028.88                 | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section.....  | 14,607.29                 | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....  | 18,939.05                 | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section .....   | 8,161.57                  | 160.28                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 96.14                     |                         |
| 26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....   | 24,045.88                 | 2,373.77                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,424.27                  |                         |
| 26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800 .....   | 4,964.42                  | 140.55                  |
| 26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section .....   | 5,841.24                  | 140.55                  |
| 26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....   | 3,122.56                  | 70.27                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 42.17                     |                         |
| 26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....  | 23,804.43                 | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 84.33                     |                         |
| 26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....  | 2,971.89                  | 70.27                   |



|              |   |
|--------------|---|
| <b>26</b>    | <b>Electrical</b>                             |
| <b>26 10</b> | <b>Medium-Voltage Electrical Distribution</b> |
| <b>26 13</b> | <b>Medium-Voltage Switchgear</b>              |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

**26 18 Medium-Voltage Circuit Protection Devices <sup>(26 10)</sup>**

**26 18 36 Medium-Voltage Enclosed Fuses <sup>(26 18)</sup>**

|                  |  |           |          |
|------------------|--|-----------|----------|
| 26 18 36 00-0001 | Sectionalizing Switch <sup>(26 18 36)</sup>  |           |          |
| 26 18 36 00-0002 | Pad Mounted Metal Enclosed Oil Filled Switching Units <sup>(26 18 36 00-0001)</sup><br>Note: 15 KV - 25 KV.  |           |          |
| 26 18 36 00-0003 | Sectionalizing Tapping And Fusing Underground Feeders <sup>(26 18 36 00-0002)</sup><br>Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs. |           |          |
| 26 18 36 00-0004 | EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....  | 72,684.31 | 1,164.66 |
| 26 18 36 00-0005 | EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....  | 81,747.34 | 1,164.66 |

**26 19 High-Voltage Circuit Protection <sup>(26 10)</sup>**

**26 19 18 Protection Devices <sup>(26 19)</sup>**

|                  |   |          |        |
|------------------|---|----------|--------|
| 26 19 18 00-0001 | Primary Fuse Cutouts <sup>(26 19 18)</sup><br>Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.                                  |          |        |
| 26 19 18 00-0002 | Non-Loadbreak Current Limiting Primary Fuse Cutouts <sup>(26 19 18 00-0001)</sup><br>Note: Includes the fuse and cut-out switch.                                |          |        |
| 26 19 18 00-0003 | 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting <sup>(26 19 18 00-0002)</sup>   |          |        |
| 26 19 18 00-0004 | EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....  | 883.24   | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0005 | EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....  | 1,050.66 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 251.15   |        |
| 26 19 18 00-0006 | EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....  | 1,217.54 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 301.21   |        |
| 26 19 18 00-0007 | EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....   | 1,238.04 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 301.39   |        |
| 26 19 18 00-0008 | EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....   | 1,238.04 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 301.39   |        |
| 26 19 18 00-0009 | 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting <sup>(26 19 18 00-0002)</sup>  |          |        |
| 26 19 18 00-0010 | EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting.....   | 883.24   | 334.87 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0011 | 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting <sup>(26 19 18 00-0002)</sup>   |          |        |
| 26 19 18 00-0012 | EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting.....  | 910.17   | 334.87 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0013 | Fuseholders <sup>(26 19 18 00-0002)</sup><br>Note: Including current limiting fuse.   |          |        |
| 26 19 18 00-0014 | EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....   | 769.76   | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0015 | EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....   | 937.18   | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 251.15   |        |
| 26 19 18 00-0016 | EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....   | 1,104.06 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 301.21   |        |
| 26 19 18 00-0017 | EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....  | 779.08   | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0018 | EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....  | 946.50   | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 251.15   |        |
| 26 19 18 00-0019 | EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....  | 769.76   | 334.87 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0020 | Accessories <sup>(26 19 18 00-0002)</sup>   |          |        |
| 26 19 18 00-0021 | EA Hot Line Clamp.....  | 111.49   | 37.67  |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 25.11    |        |
| 26 19 18 00-0022 | EA Stirrup.....   | 120.04   | 37.67  |
| 26 19 18 00-0023 | Loadbreak Current Limiting Primary Fuse Cutouts <sup>(26 19 18 00-0001)</sup><br>Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder. |          |        |
| 26 19 18 00-0024 | 8.3 KV-95 KV BIL Loadbreak Current Limiting <sup>(26 19 18 00-0023)</sup>   |          |        |
| 26 19 18 00-0025 | EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....  | 1,092.90 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 200.92   |        |
| 26 19 18 00-0026 | EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....  | 1,260.32 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 251.15   |        |
| 26 19 18 00-0027 | EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....  | 1,427.20 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 301.21   |        |
| 26 19 18 00-0028 | EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....   | 1,467.23 | 418.58 |
|                  | For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 301.39   |        |



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 26 19 18 00-0029   | EA  |     | 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 1,467.23<br>301.39     | 418.58               |
| <b>26 19 18 00-0030 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)</b>  |     |     |  |                        |                      |
| 26 19 18 00-0031   | EA  |     | 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 1,092.90<br>200.92     | 334.87               |
| <b>26 19 18 00-0032 17.1 KV-125 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)</b> |     |     |  |                        |                      |
| 26 19 18 00-0033   | EA  |     | 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>         | 1,092.90<br>200.92     | 334.87               |
| <b>26 19 18 00-0034 Fuseholders (26 19 18 00-0023)</b>                                   |     |     |  |                        |                      |
| Note: Includes current limiting fuses.   |     |     |  |                        |                      |
| 26 19 18 00-0035   | EA  |     | 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 779.38<br>200.92       | 418.58               |
| 26 19 18 00-0036   | EA  |     | 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 946.80<br>251.15       | 418.58               |
| 26 19 18 00-0037   | EA  |     | 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,113.68<br>301.21     | 418.58               |
| 26 19 18 00-0038   | EA  |     | 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 779.38<br>200.92       | 418.58               |
| <b>26 19 18 00-0039 Pole Mounted Capacitors (26 19 18 00-0023)</b>                       |     |     |  |                        |                      |
| 26 19 18 00-0040   | EA  |     | Capacitors - Pole Mounted 6 KVAR.....  | 1,870.07               | 337.55               |
| <b>26 19 80 Transmission and Distribution Accessories (26 19)</b>                        |     |     |  |                        |                      |
| <b>26 19 80 60 Structure Assemblies (26 19 80)</b>                                       |     |     |  |                        |                      |
| <b>26 19 80 60-0001 Pole Structure Assemblies (26 19 80 60)</b>                          |     |     |  |                        |                      |
| <b>26 19 80 60-0002 5 KV Pole Structure Assemblies (26 19 80 60-0001)</b>                |     |     |  |                        |                      |
| Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.   |     |     |  |                        |                      |
| 26 19 80 60-0003   | EA  |     | Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 674.13                 | 318.13               |
| 26 19 80 60-0004   | EA  |     | Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,127.79               | 535.79               |
| 26 19 80 60-0005   | EA  |     | Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,216.64               | 418.58               |
| 26 19 80 60-0006   | EA  |     | Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 684.21                 | 217.66               |
| 26 19 80 60-0007   | EA  |     | Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 878.79                 | 301.38               |
| 26 19 80 60-0008   | EA  |     | Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,565.25               | 602.76               |
| 26 19 80 60-0009   | EA  |     | Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,219.50               | 452.07               |
| 26 19 80 60-0010   | EA  |     | Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,262.06               | 904.14               |
| 26 19 80 60-0011   | EA  |     | Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,565.60               | 1,021.34             |
| 26 19 80 60-0012   | EA  |     | Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,384.05               | 502.30               |
| 26 19 80 60-0013   | EA  |     | Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,212.42               | 535.79               |
| 26 19 80 60-0014   | EA  |     | Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,307.67               | 1,088.32             |
| 26 19 80 60-0015   | EA  |     | Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,696.87               | 652.99               |
| 26 19 80 60-0016   | EA  |     | Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,080.22               | 468.82               |
| 26 19 80 60-0017   | EA  |     | Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,061.37               | 954.37               |
| 26 19 80 60-0018   | EA  |     | Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,558.84               | 485.56               |
| <b>26 19 80 60-0019 15 KV Pole Structure Assemblies (26 19 80 60-0001)</b>               |     |     |  |                        |                      |
| Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.   |     |     |  |                        |                      |
| 26 19 80 60-0020   | EA  |     | Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 701.06                 | 318.13               |
| 26 19 80 60-0021   | EA  |     | Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,166.26               | 535.79               |
| 26 19 80 60-0022   | EA  |     | Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,347.43               | 418.58               |
| 26 19 80 60-0023   | EA  |     | Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 730.37                 | 217.66               |
| 26 19 80 60-0024   | EA  |     | Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 944.19                 | 284.64               |
| 26 19 80 60-0025   | EA  |     | Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,696.04               | 602.76               |
| 26 19 80 60-0026   | EA  |     | Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,315.67               | 452.07               |
| 26 19 80 60-0027   | EA  |     | Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,458.25               | 904.14               |
| 26 19 80 60-0028   | EA  |     | Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,831.04               | 1,021.34             |
| 26 19 80 60-0029   | EA  |     | Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,514.84               | 502.30               |
| 26 19 80 60-0030   | EA  |     | Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,262.43               | 535.79               |
| 26 19 80 60-0031   | EA  |     | Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,357.68               | 1,088.32             |
| 26 19 80 60-0032   | EA  |     | Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,796.89               | 652.99               |
| 26 19 80 60-0033   | EA  |     | Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,130.23               | 452.07               |
| 26 19 80 60-0034   | EA  |     | Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,111.38               | 954.37               |
| 26 19 80 60-0035   | EA  |     | Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,658.86               | 586.02               |
| <b>26 19 80 60-0036 25 KV Pole Structure Assemblies (26 19 80 60-0001)</b>               |     |     |  |                        |                      |
| Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.   |     |     |  |                        |                      |
| 26 19 80 60-0037   | EA  |     | Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,972.62               | 502.30               |
| 26 19 80 60-0038   | EA  |     | Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,188.38               | 251.15               |
| 26 19 80 60-0039   | EA  |     | Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 1,727.33               | 385.10               |
| 26 19 80 60-0040   | EA  |     | Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,371.61               | 786.93               |

|              |   |
|--------------|---|
| <b>26</b>    | <b>Electrical</b>                             |
| <b>26 10</b> | <b>Medium-Voltage Electrical Distribution</b> |
| <b>26 19</b> | <b>High-Voltage Circuit Protection</b>        |



| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 19 80 60-0041        | EA  | Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,201.06                  | 586.02                  |
| 26 19 80 60-0042        | EA  | Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 3,633.41                  | 1,155.29                |
| 26 19 80 60-0043        | EA  | Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 3,533.76                  | 1,305.98                |
| 26 19 80 60-0044        | EA  | Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,433.16                  | 761.83                  |
| 26 19 80 60-0045        | EA  | Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,136.84                  | 761.83                  |
| <b>26 19 80 60-0046</b> |     | <b>50 KV Pole Structure Assemblies</b> <small>(26 19 80 60-0001)</small><br>Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.  |                           |                         |
| 26 19 80 60-0047        | EA  | Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 2,650.55                  | 686.48                  |
| 26 19 80 60-0048        | EA  | Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,432.62                  | 351.61                  |
| 26 19 80 60-0049        | EA  | Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 1,858.67                  | 552.53                  |
| 26 19 80 60-0050        | EA  | Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 3,517.31                  | 1,121.80                |
| 26 19 80 60-0051        | EA  | Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 2,689.91                  | 837.16                  |
| 26 19 80 60-0052        | EA  | Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 5,191.33                  | 1,674.33                |
| 26 19 80 60-0053        | EA  | Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....   | 6,098.11                  | 1,858.51                |
| 26 19 80 60-0054        | EA  | Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 3,092.99                  | 904.14                  |
| 26 19 80 60-0055        | EA  | Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 3,166.20                  | 1,046.46                |
| 26 19 80 60-0056        | EA  | Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....  | 3,043.09                  | 987.85                  |
| <b>26 19 80 60-0057</b> |     | <b>Overhead To Underground Conversion Structures</b> <small>(26 19 80 60)</small><br>Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.                         |                           |                         |
| <b>26 19 80 60-0058</b> |     | <b>5 KV Structures</b> <small>(26 19 80 60-0057)</small><br>Note: Excludes pole.  |                           |                         |
| 26 19 80 60-0059        | EA  | (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....  | 6,651.04                  | 3,348.67                |
| 26 19 80 60-0060        | EA  | (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....   | 6,651.04                  | 3,348.67                |
| 26 19 80 60-0061        | EA  | (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....   | 6,651.04                  | 3,348.67                |
| 26 19 80 60-0062        | EA  | (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....  | 6,651.04                  | 3,348.67                |
| <b>26 19 80 60-0063</b> |     | <b>15 KV Structures</b> <small>(26 19 80 60-0057)</small><br>Note: Excludes pole.   |                           |                         |
| 26 19 80 60-0064        | EA  | (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....   | 6,832.05                  | 3,348.67                |
| 26 19 80 60-0065        | EA  | (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....  | 6,832.05                  | 3,348.67                |
| 26 19 80 60-0066        | EA  | (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....  | 6,832.05                  | 3,348.67                |
| 26 19 80 60-0067        | EA  | (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....   | 6,832.05                  | 3,348.67                |
| <b>26 19 80 60-0068</b> |     | <b>25 KV Structures</b> <small>(26 19 80 60-0057)</small><br>Note: Excludes pole.   |                           |                         |
| 26 19 80 60-0069        | EA  | (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....   | 7,029.51                  | 3,348.67                |
| 26 19 80 60-0070        | EA  | (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....  | 7,029.51                  | 3,348.67                |
| 26 19 80 60-0071        | EA  | (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....  | 7,029.51                  | 3,348.67                |
| 26 19 80 60-0072        | EA  | (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....   | 7,029.51                  | 3,348.67                |
| <b>26 19 80 60-0073</b> |     | <b>Transformer Stations</b> <small>(26 19 80 60)</small><br>Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer. |                           |                         |
| <b>26 19 80 60-0074</b> |     | <b>5 KV Station</b> <small>(26 19 80 60-0073)</small>   |                           |                         |
| 26 19 80 60-0075        | EA  | (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....   | 10,461.50                 | 4,463.78                |
| 26 19 80 60-0076        | EA  | (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....   | 11,731.03                 | 5,023.00                |
| 26 19 80 60-0077        | EA  | (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....   | 13,000.57                 | 5,580.56                |
| 26 19 80 60-0078        | EA  | (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole.....  | 13,000.57                 | 5,580.56                |
| 26 19 80 60-0079        | EA  | (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole.....   | 10,461.50                 | 4,463.78                |
| <b>26 19 80 60-0080</b> |     | <b>15 KV Stations</b> <small>(26 19 80 60-0073)</small>   |                           |                         |
| 26 19 80 60-0081        | EA  | (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....  | 10,741.27                 | 4,462.51                |
| 26 19 80 60-0082        | EA  | (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....  | 12,010.80                 | 5,023.00                |
| 26 19 80 60-0083        | EA  | (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....  | 13,280.34                 | 5,580.56                |
| 26 19 80 60-0084        | EA  | (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole.....   | 13,280.34                 | 5,580.56                |
| 26 19 80 60-0085        | EA  | (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....  | 10,741.27                 | 4,463.78                |
| <b>26 19 80 60-0086</b> |     | <b>25 KV Stations</b> <small>(26 19 80 60-0073)</small>   |                           |                         |
| 26 19 80 60-0087        | EA  | (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....  | 11,046.47                 | 4,463.78                |
| 26 19 80 60-0088        | EA  | (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....  | 12,316.00                 | 5,023.00                |
| 26 19 80 60-0089        | EA  | (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....  | 13,585.54                 | 5,580.56                |
| 26 19 80 60-0090        | EA  | (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole.....   | 13,585.54                 | 5,580.56                |
| 26 19 80 60-0091        | EA  | (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....  | 11,046.47                 | 4,463.78                |

**26 20 Low-Voltage Electrical Distribution** (26)**26 21 Low-Voltage Electrical Service Entrance** (26 20)



|  | MINOR CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|---------------------------|------------------------|----------------------|
|--|---------------------------|------------------------|----------------------|

See CSI section 26 05 13 00-0000 for wire and cables.

**26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)**

|                  |   |        |        |
|------------------|---|--------|--------|
| 26 21 13 00-0001 | Service Drop Cable And Weatherheads (26 21 13)  |        |        |
| 26 21 13 00-0002 | 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)   |        |        |
| 26 21 13 00-0003 | Aluminum Duplex ACSR Neutral (26 21 13 00-0002)   |        |        |
| 26 21 13 00-0004 | LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....                    | 11.40  | 3.98   |
| 26 21 13 00-0005 | LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....                    | 13.97  | 4.72   |
| 26 21 13 00-0006 | LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....                    | 17.10  | 5.32   |
| 26 21 13 00-0007 | LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....                   | 23.78  | 6.69   |
| <br>             |   |        |        |
| 26 21 13 00-0008 | Aluminum Triplex ACSR Neutral (26 21 13 00-0002)  |        |        |
| 26 21 13 00-0009 | LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                  | 14.31  | 4.72   |
| 26 21 13 00-0010 | LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                  | 16.66  | 5.32   |
| 26 21 13 00-0011 | LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                  | 21.28  | 6.69   |
| 26 21 13 00-0012 | LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                 | 27.32  | 8.16   |
| 26 21 13 00-0013 | LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                 | 35.24  | 10.81  |
| 26 21 13 00-0014 | LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                 | 45.96  | 13.39  |
| 26 21 13 00-0015 | LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable .....                 | 66.43  | 15.95  |
| <br>             |   |        |        |
| 26 21 13 00-0016 | Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)   |        |        |
| 26 21 13 00-0017 | LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....               | 16.74  | 5.32   |
| 26 21 13 00-0018 | LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....               | 21.27  | 6.69   |
| 26 21 13 00-0019 | LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....               | 27.64  | 8.59   |
| 26 21 13 00-0020 | LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....              | 37.21  | 10.81  |
| 26 21 13 00-0021 | LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....              | 41.62  | 11.96  |
| 26 21 13 00-0022 | LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....              | 49.25  | 13.39  |
| 26 21 13 00-0023 | LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....              | 57.43  | 15.95  |
| 26 21 13 00-0024 | LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable .....              | 77.72  | 17.62  |
| <br>             |   |        |        |
| 26 21 13 00-0025 | Weatherproof Conduit Hubs (26 21 13 00-0002)  |        |        |
| 26 21 13 00-0026 | EA 1/2" Weatherproof Conduit Hubs .....   | 70.50  | 27.08  |
| 26 21 13 00-0027 | EA 3/4" Weatherproof Conduit Hubs .....   | 80.36  | 30.76  |
| 26 21 13 00-0028 | EA 1" Weatherproof Conduit Hubs.....  | 92.63  | 34.46  |
| 26 21 13 00-0029 | EA 1-1/4" Weatherproof Conduit Hubs.....  | 128.12 | 46.15  |
| 26 21 13 00-0030 | EA 1-1/2" Weatherproof Conduit Hubs.....  | 140.39 | 49.84  |
| 26 21 13 00-0031 | EA 2" Weatherproof Conduit Hubs.....  | 177.73 | 57.84  |
| 26 21 13 00-0032 | EA 2-1/2" Weatherproof Conduit Hubs.....  | 227.41 | 65.22  |
| 26 21 13 00-0033 | EA 3" Weatherproof Conduit Hubs .....   | 289.59 | 76.91  |
| 26 21 13 00-0034 | EA 4" Weatherproof Conduit Hubs .....   | 522.74 | 153.82 |
| <br>             |   |        |        |
| 26 21 13 00-0035 | Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)   |        |        |
| 26 21 13 00-0036 | EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....           | 76.99  | 27.08  |
| 26 21 13 00-0037 | EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service.....            | 88.14  | 30.76  |
| 26 21 13 00-0038 | EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service .....                         | 100.48 | 34.46  |
| 26 21 13 00-0039 | EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....           | 134.92 | 46.15  |
| 26 21 13 00-0040 | EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....           | 151.25 | 49.84  |
| 26 21 13 00-0041 | EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service.....             | 194.37 | 57.84  |
| 26 21 13 00-0042 | EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service.....             | 308.73 | 65.22  |
| 26 21 13 00-0043 | EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service.....             | 352.97 | 76.91  |
| 26 21 13 00-0044 | EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service.....             | 595.93 | 153.82 |
| <br>             |   |        |        |
| 26 21 13 00-0045 | Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)   |        |        |
| 26 21 13 00-0046 | EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....                  | 74.96  | 27.08  |
| 26 21 13 00-0047 | EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....                   | 84.72  | 30.76  |
| 26 21 13 00-0048 | EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....                            | 95.85  | 34.30  |
| 26 21 13 00-0049 | EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....                  | 127.61 | 46.15  |
| 26 21 13 00-0050 | EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....                  | 141.38 | 49.84  |
| 26 21 13 00-0051 | EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....                    | 166.16 | 57.84  |
| 26 21 13 00-0052 | EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service .....                   | 255.82 | 65.22  |
| 26 21 13 00-0053 | EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....                    | 326.36 | 76.91  |
| 26 21 13 00-0054 | EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....                | 463.50 | 115.36 |
| 26 21 13 00-0055 | EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....                    | 564.26 | 153.82 |
| <br>             |   |        |        |
| 26 21 13 00-0056 | Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)                           |        |        |
| 26 21 13 00-0057 | EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....  | 73.01  | 27.08  |
| 26 21 13 00-0058 | EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....   | 83.44  | 30.76  |
| 26 21 13 00-0059 | EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....            | 94.54  | 34.30  |
| 26 21 13 00-0060 | EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service ..... | 126.05 | 46.15  |
| 26 21 13 00-0061 | EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service ..... | 137.11 | 49.84  |
| 26 21 13 00-0062 | EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....    | 166.70 | 57.84  |
| 26 21 13 00-0063 | EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....    | 264.84 | 65.22  |

**26 Electrical**

**26 20 Low-Voltage Electrical Distribution**

**26 21 Low-Voltage Electrical Service Entrance**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....   | 298.47                    | 76.91                   |
| 26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....   | 505.46                    | 115.36                  |
| 26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....   | 697.44                    | 153.82                  |
| <b>26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)</b>   |                           |                         |
| <b>26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)</b>  |                           |                         |
| Note: Excludes excavation and backfill.   |                           |                         |
| 26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....  | 6,723.52                  | 1,488.32                |
| 26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....  | 7,930.68                  | 1,575.88                |
| 26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....  | 9,720.23                  | 1,674.33                |
| 26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....   | 12,091.78                 | 1,674.33                |
| 26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....   | 13,602.90                 | 1,786.01                |
| 26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....   | 16,273.56                 | 2,060.77                |
| 26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....   | 19,666.44                 | 2,678.93                |
| <b>26 22 Low-Voltage Transformers (26 20)</b>   |                           |                         |
| <b>26 22 13 Low-Voltage Distribution Transformers (26 22)</b>   |                           |                         |
| <b>26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13)</b>   |                           |                         |
| Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed. |                           |                         |
| <b>26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)</b>  |                           |                         |
| Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.  |                           |                         |
| 26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 1,759.56                  | 393.04                  |
| 26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 2,425.30                  | 471.66                  |
| 26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 3,102.00                  | 492.09                  |
| 26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 3,784.79                  | 510.96                  |
| 26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....   | 5,431.24                  | 550.26                  |
| 26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....   | 6,495.49                  | 589.57                  |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 265.82                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 398.73                    |                         |
| 26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....   | 7,125.65                  | 628.87                  |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 293.40                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 440.09                    |                         |
| 26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....   | 6,885.04                  | 707.48                  |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 273.50                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 410.26                    |                         |
| 26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....   | 8,228.25                  | 786.09                  |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 332.80                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 499.20                    |                         |
| 26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....   | 10,909.00                 | 943.31                  |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 451.12                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 676.68                    |                         |
| 26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 13,870.17                 | 1,100.53                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 583.46                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 875.18                    |                         |
| 26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 22,185.35                 | 1,414.96                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 967.77                    |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 1,451.66                  |                         |
| 26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 40,177.91                 | 1,729.40                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 1,835.96                  |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 2,753.93                  |                         |
| 26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....  | 63,171.30                 | 1,965.23                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 2,962.04                  |                         |
| <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |                           |                         |
|   | 4,443.06                  |                         |
| <b>26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)</b>  |                           |                         |
| Note: 1-10 Percent x 2-5 percent FCBN taps.   |                           |                         |
| 26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....  | 1,972.26                  | 471.66                  |
| 26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....  | 2,376.05                  | 491.30                  |
| 26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....  | 2,973.29                  | 510.96                  |
| 26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 3,522.97                  | 550.26                  |
| <b>26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)</b>  |                           |                         |
| Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.  |                           |                         |
| 26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 6,761.30                  | 589.57                  |
| 26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 7,419.04                  | 628.87                  |
| <b>26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)</b>  |                           |                         |
| 26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....  | 736.07                    | 281.10                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| <b>26 22 13 00-0027</b>   | <b>1 Phase Weathershields <small>(26 22 13 00-0001)</small></b>  |                         |
| Note: Use with types DT-3 and DS-3.   |  |                         |
| 26 22 13 00-0028 EA 37.5 KVA 1 Phase Weathershields, Set Of 2.....  | 191.51   |                         |
| 26 22 13 00-0029 EA 50 KVA 1 Phase Weathershields, Set Of 2.....  | 244.11   |                         |
| 26 22 13 00-0030 EA 75 KVA 1 Phase Weathershields, Set Of 2.....  | 291.10   |                         |
| 26 22 13 00-0031 EA 100 KVA 1 Phase Weathershields, Set Of 2.....   | 347.27   |                         |
| 26 22 13 00-0032 EA 167 KVA 1 Phase Weathershields, Set Of 2.....   | 469.84   |                         |
| 26 22 13 00-0033 EA 250 KVA 1 Phase Weathershields, Set Of 2.....   | 561.77   |                         |
| 26 22 13 00-0034 EA 333 KVA 1 Phase Weathershields, Set Of 2.....   | 689.44   |                         |
| <b>26 22 13 00-0035</b>   | <b>Packaged Power Supply <small>(26 22 13 00-0001)</small></b>   |                         |
| Note: 2-5 Percent FCBN taps.  |  |                         |
| 26 22 13 00-0036 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....   | 3,798.13   | 491.30                  |
| 26 22 13 00-0038 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....   | 4,676.58   | 550.26                  |
| 26 22 13 00-0039 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....   | 5,820.45   | 589.57                  |
| 26 22 13 00-0040 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....   | 8,180.65   | 628.87                  |
| <b>26 22 13 00-0041</b>   | <b>240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer<br/>Grade <small>(26 22 13 00-0001)</small></b> |                         |
| 26 22 13 00-0042 EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....   | 2,826.87   | 353.74                  |
| 26 22 13 00-0043 EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....   | 4,080.09   | 393.04                  |
| 26 22 13 00-0044 EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....   | 4,748.00   | 471.66                  |
| 26 22 13 00-0045 EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....   | 5,272.46   | 491.30                  |
| 26 22 13 00-0046 EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....   | 5,975.68   | 510.96                  |
| 26 22 13 00-0047 EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....  | 7,790.66   | 550.26                  |
| 26 22 13 00-0048 EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....  | 10,208.25  | 589.57                  |
| <b>26 22 13 00-0049</b>   | <b>1 Phase, 208/600 Volt, Dry General Purpose Transformer <small>(26 22 13 00-0001)</small></b>                        |                         |
| 26 22 13 00-0050 EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 12,671.56  | 589.57                  |
| 26 22 13 00-0051 EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 13,131.09  | 628.87                  |
| 26 22 13 00-0052 EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 13,631.15  | 668.17                  |
| 26 22 13 00-0053 EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 18,117.65  | 707.48                  |
| 26 22 13 00-0054 EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 18,818.51  | 746.79                  |
| 26 22 13 00-0055 EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....   | 25,251.54  | 786.09                  |
| <b>26 22 13 00-0056</b>   | <b>3 Phase General Purpose "Dry Type" Transformer <small>(26 22 13)</small></b>  |                         |
| Note: 60 Hz type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed. |  |                         |
| <b>26 22 13 00-0057</b>   | <b>Packaged Power Supply <small>(26 22 13 00-0056)</small></b>   |                         |
| Note: 2-5 Percent FCBN taps.  |  |                         |
| 26 22 13 00-0058 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....  | 16,875.58  | 1,690.10                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |  |                         |
|   | 674.77   |                         |
|   | 1,012.15   |                         |
| 26 22 13 00-0059 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....  | 20,339.71  | 1,808.01                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |  |                         |
|   | 836.18   |                         |
|   | 1,254.28   |                         |
| 26 22 13 00-0060 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....  | 24,450.19  | 1,965.23                |
| <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>   |  |                         |
|   | 1,025.99   |                         |
|   | 1,538.98   |                         |
| <b>26 22 13 00-0061</b>   | <b>Drive Isolation Transformers <small>(26 22 13 00-0056)</small></b>  |                         |
| Note: Only use in step-up applications.   |  |                         |
| <b>26 22 13 00-0062</b>   | <b>230 Volt Drive Isolation Transformers <small>(26 22 13 00-0061)</small></b>   |                         |
| 26 22 13 00-0063 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 8,893.05   | 628.87                  |
| 26 22 13 00-0064 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 10,399.72  | 668.17                  |
| 26 22 13 00-0065 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 10,763.93  | 707.48                  |
| 26 22 13 00-0066 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 12,697.11  | 746.79                  |
| 26 22 13 00-0067 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 13,147.55  | 825.40                  |
| 26 22 13 00-0068 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 14,454.83  | 904.00                  |
| 26 22 13 00-0069 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 16,340.94  | 982.61                  |
| 26 22 13 00-0070 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 19,010.17  | 1,100.53                |
| 26 22 13 00-0071 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 20,570.14  | 1,139.83                |
| 26 22 13 00-0072 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 23,737.15  | 1,179.13                |
| 26 22 13 00-0073 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....   | 29,844.04  | 1,218.44                |
| 26 22 13 00-0074 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 33,513.16  | 1,493.57                |
| 26 22 13 00-0075 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 37,375.69  | 1,572.19                |
| 26 22 13 00-0076 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 42,807.18  | 1,650.79                |
| 26 22 13 00-0077 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 52,213.82  | 1,965.23                |
| 26 22 13 00-0078 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 69,159.18  | 2,318.97                |
| 26 22 13 00-0079 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 73,004.85  | 2,554.80                |
| 26 22 13 00-0080 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 88,890.47  | 2,829.93                |
| 26 22 13 00-0081 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 109,694.84   | 3,144.36                |

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 22 Low-Voltage Transformers**



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|   |    |  |  |           |          |
|---|----|--|--|-----------|----------|
| <b>26 22 13 00-0082 208V Drive Isolation Transformers (26 22 13 00-0061)</b>  |    |  |  |           |          |
| 26 22 13 00-0083  | EA |  | 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers..... | 9,281.69  | 628.87   |
| 26 22 13 00-0084  | EA |  | 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 10,861.05 | 668.17   |
| 26 22 13 00-0085  | EA |  | 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 11,239.80 | 707.48   |
| 26 22 13 00-0086  | EA |  | 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 13,267.37 | 746.79   |
| 26 22 13 00-0087  | EA |  | 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 13,732.74 | 825.40   |
| 26 22 13 00-0088  | EA |  | 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 15,019.94 | 864.70   |
| 26 22 13 00-0089  | EA |  | 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 17,151.27 | 1,021.92 |
| 26 22 13 00-0090  | EA |  | 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 19,865.75 | 1,100.53 |
| 26 22 13 00-0091  | EA |  | 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 21,501.13 | 1,139.83 |
| 26 22 13 00-0092  | EA |  | 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 24,825.33 | 1,179.13 |
| 26 22 13 00-0093  | EA |  | 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....  | 31,239.07 | 1,218.44 |
| 26 22 13 00-0094  | EA |  | 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers..... | 35,066.93 | 1,493.57 |
| 26 22 13 00-0095  | EA |  | 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers..... | 39,118.07 | 1,572.19 |
| 26 22 13 00-0096  | EA |  | 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers..... | 44,818.02 | 1,650.79 |
| 26 22 13 00-0097  | EA |  | 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers..... | 54,671.44 | 1,965.23 |
| <br>  |    |  |  |           |          |
| <b>26 22 13 00-0098 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps (26 22 13 00-0056)</b>                        |    |  |  |           |          |
| 26 22 13 00-0099  | EA |  | 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                       | 6,272.14  | 648.53   |
| 26 22 13 00-0100  | EA |  | 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                      | 8,241.39  | 707.48   |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 341.32    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 511.98    |          |
| <br>  |    |  |  |           |          |
| <b>26 22 13 00-0101 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0056)</b> |    |  |  |           |          |
| 26 22 13 00-0102  | EA |  | 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                      | 9,228.05  | 864.70   |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 374.93    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 562.40    |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 5,249.06  |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 7,498.65  |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 9,748.25  |          |
| 26 22 13 00-0103  | EA |  | 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                    | 11,155.37 | 943.31   |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 463.44    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 695.16    |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 6,488.13  |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 9,268.75  |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 12,049.38 |          |
| 26 22 13 00-0104  | EA |  | 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                      | 11,657.88 | 1,021.92 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 480.70    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 721.05    |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 6,729.84  |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 9,614.05  |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 12,498.27 |          |
| 26 22 13 00-0105  | EA |  | 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                      | 15,341.33 | 1,100.53 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 657.01    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 985.52    |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 9,198.19  |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 13,140.27 |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 17,082.35 |          |
| 26 22 13 00-0106  | EA |  | 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                      | 15,115.49 | 1,179.13 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 637.86    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 956.79    |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 8,930.05  |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 12,757.22 |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 16,584.39 |          |
| 26 22 13 00-0107  | EA |  | 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                   | 18,822.59 | 1,414.96 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 799.63    |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 1,199.45  |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 11,194.86 |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 15,992.66 |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 20,790.46 |          |
| 26 22 13 00-0108  | EA |  | 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                     | 24,473.03 | 1,572.19 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 1,066.43  |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 1,599.65  |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 14,930.07 |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 21,328.67 |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 27,727.27 |          |
| 26 22 13 00-0109  | EA |  | 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                     | 33,400.01 | 1,965.23 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 1,473.48  |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 2,210.22  |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 20,628.69 |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 29,469.55 |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 38,310.42 |          |
| 26 22 13 00-0110  | EA |  | 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....                     | 40,706.54 | 2,436.89 |
|   |    |  | <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>                              | 1,791.64  |          |
|   |    |  | <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>                                | 2,687.46  |          |
|   |    |  | <i>For K4 Factor Rating, Add</i>   | 25,082.95 |          |
|   |    |  | <i>For K13 Factor Rating, Add</i>  | 35,832.78 |          |
|   |    |  | <i>For K20 Factor Rating, Add</i>  | 46,582.61 |          |



|  |              |           |
|--|--------------|-----------|
| <b>Electrical</b>                          | <b>26</b>    | <b>26</b> |
| <b>Low-Voltage Electrical Distribution</b> | <b>26 20</b> |           |
| <b>Low-Voltage Transformers</b>            | <b>26 22</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....   | 58,445.59                 | 2,987.14                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 2,623.57                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 3,935.35                  |                         |
| For K4 Factor Rating, Add  | 36,729.91                 |                         |
| For K13 Factor Rating, Add   | 52,471.30                 |                         |
| For K20 Factor Rating, Add   | 68,212.69                 |                         |
| 26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....   | 135,221.54                | 3,571.61                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 6,399.48                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 9,599.21                  |                         |
| For K4 Factor Rating, Add  | 89,592.66                 |                         |
| For K13 Factor Rating, Add   | 127,989.51                |                         |
| For K20 Factor Rating, Add   | 166,386.36                |                         |
| 26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... | 178,262.32                | 3,930.46                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 8,520.07                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 12,780.11                 |                         |
| For K4 Factor Rating, Add  | 119,280.99                |                         |
| For K13 Factor Rating, Add   | 170,401.41                |                         |
| For K20 Factor Rating, Add   | 221,521.83                |                         |
| <b>26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN</b>                      |                           |                         |
| <b>Taps</b> (26 22 13 00-0056)   |                           |                         |
| 26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....     | 5,096.00                  | 609.22                  |
| For K4 Factor Rating, Add  | 2,714.29                  |                         |
| For K13 Factor Rating, Add   | 3,877.56                  |                         |
| For K20 Factor Rating, Add   | 5,040.83                  |                         |
| 26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....     | 6,272.14                  | 648.53                  |
| For K4 Factor Rating, Add  | 3,482.56                  |                         |
| For K13 Factor Rating, Add   | 4,975.09                  |                         |
| For K20 Factor Rating, Add   | 6,467.62                  |                         |
| 26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....    | 8,241.39                  | 707.48                  |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 341.32                    |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 511.98                    |                         |
| For K4 Factor Rating, Add  | 4,778.50                  |                         |
| For K13 Factor Rating, Add   | 6,826.43                  |                         |
| For K20 Factor Rating, Add   | 8,874.36                  |                         |
| <b>26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps</b>                     |                           |                         |
| (26 22 13 00-0056)   |                           |                         |
| 26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....    | 16,003.39                 | 864.70                  |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 713.70                    |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 1,070.55                  |                         |
| For K4 Factor Rating, Add  | 9,991.79                  |                         |
| For K13 Factor Rating, Add   | 14,273.99                 |                         |
| For K20 Factor Rating, Add   | 18,556.19                 |                         |
| 26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....    | 17,927.94                 | 1,021.92                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 794.21                    |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 1,191.31                  |                         |
| For K4 Factor Rating, Add  | 11,118.88                 |                         |
| For K13 Factor Rating, Add   | 15,884.11                 |                         |
| For K20 Factor Rating, Add   | 20,649.34                 |                         |
| 26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....    | 26,516.11                 | 1,179.13                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 1,207.89                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 1,811.84                  |                         |
| For K4 Factor Rating, Add  | 16,910.49                 |                         |
| For K13 Factor Rating, Add   | 24,157.84                 |                         |
| For K20 Factor Rating, Add   | 31,405.19                 |                         |
| 26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... | 33,301.61                 | 1,414.96                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 1,523.58                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 2,285.38                  |                         |
| For K4 Factor Rating, Add  | 21,330.18                 |                         |
| For K13 Factor Rating, Add   | 30,471.68                 |                         |
| For K20 Factor Rating, Add   | 39,613.18                 |                         |
| 26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....   | 40,134.92                 | 1,572.19                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 1,849.53                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 2,774.29                  |                         |
| For K4 Factor Rating, Add  | 25,893.39                 |                         |
| For K13 Factor Rating, Add   | 36,990.56                 |                         |
| For K20 Factor Rating, Add   | 48,087.73                 |                         |
| 26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....   | 51,456.15                 | 1,965.23                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 2,376.28                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 3,564.43                  |                         |
| For K4 Factor Rating, Add  | 33,267.98                 |                         |
| For K13 Factor Rating, Add   | 47,525.69                 |                         |
| For K20 Factor Rating, Add   | 61,783.40                 |                         |
| 26 22 13 00-0125 EA 300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....   | 62,554.67                 | 2,436.89                |
| For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add                                       | 2,884.05                  |                         |
| For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add   | 4,326.07                  |                         |
| For K4 Factor Rating, Add  | 40,376.64                 |                         |
| For K13 Factor Rating, Add   | 57,680.91                 |                         |
| For K20 Factor Rating, Add   | 74,985.18                 |                         |





| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|------------------|-----|---|--|-------------------------|
| 26 22 13 00-0126 | EA  | 500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry<br><i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i><br><i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i><br><i>For K4 Factor Rating, Add</i><br><i>For K13 Factor Rating, Add</i><br><i>For K20 Factor Rating, Add</i> | 100,712.09<br>4,736.89<br>7,105.34<br>66,316.46<br>94,737.80<br>123,159.14 | 2,987.14                |
| 26 22 13 00-0127 |     | <b>3 Phase 60 Hz K20 Dry Type Transformers</b> <small>(26 22 13 00-0056)</small>  |  |                         |
| 26 22 13 00-0128 |     | <b>3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise</b> <small>(26 22 13 00-0127)</small><br>Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.   |  |                         |
| 26 22 13 00-0129 | EA  | 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 7,692.62   | 707.48                  |
| 26 22 13 00-0130 | EA  | 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 11,673.55  | 864.70                  |
| 26 22 13 00-0131 | EA  | 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 17,186.20  | 1,021.92                |
| 26 22 13 00-0132 | EA  | 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 21,987.27  | 1,179.13                |
| 26 22 13 00-0133 | EA  | 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 33,108.64  | 1,414.96                |
| 26 22 13 00-0134 | EA  | 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 40,303.77  | 1,572.19                |
| 26 22 13 00-0135 | EA  | 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 46,842.89  | 1,965.23                |
| 26 22 13 00-0136 | EA  | 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 74,549.16  | 2,436.89                |
| 26 22 13 00-0137 |     | <b>3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise</b> <small>(26 22 13 00-0127)</small><br>Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.  |  |                         |
| 26 22 13 00-0138 | EA  | 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 8,952.98   | 707.48                  |
| 26 22 13 00-0139 | EA  | 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 13,663.59  | 864.70                  |
| 26 22 13 00-0140 | EA  | 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 20,213.47  | 1,021.92                |
| 26 22 13 00-0141 | EA  | 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20   | 25,907.04  | 1,179.13                |
| 26 22 13 00-0142 | EA  | 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 39,163.18  | 1,414.96                |
| 26 22 13 00-0143 | EA  | 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 47,739.27  | 1,572.19                |
| 26 22 13 00-0144 | EA  | 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 55,424.16  | 1,965.23                |
| 26 22 13 00-0145 | EA  | 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20  | 88,485.45  | 2,436.89                |
| 26 22 13 00-0146 |     | <b>NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0056)</small>   |  |                         |
| 26 22 13 00-0147 |     | <b>Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0146)</small><br>Note: Two taps at 2.5%, four at -2.5%.  |  |                         |
| 26 22 13 00-0148 |     | <b>150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0147)</small>   |  |                         |
| 26 22 13 00-0149 | EA  | 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 3,817.22   | 698.79                  |
| 26 22 13 00-0150 | EA  | 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 4,657.38   | 854.08                  |
| 26 22 13 00-0151 | EA  | 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 5,602.38   | 1,009.37                |
| 26 22 13 00-0152 | EA  | 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 7,407.17   | 1,164.66                |
| 26 22 13 00-0153 | EA  | 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 9,813.06   | 1,397.58                |
| 26 22 13 00-0154 | EA  | 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 12,095.50  | 1,552.87                |
| 26 22 13 00-0155 | EA  | 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 15,965.68  | 1,941.10                |
| 26 22 13 00-0156 | EA  | 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 22,279.01  | 2,406.95                |
| 26 22 13 00-0157 |     | <b>115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0147)</small>   |  |                         |
| 26 22 13 00-0158 | EA  | 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 4,545.22   | 698.79                  |
| 26 22 13 00-0159 | EA  | 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 5,539.21   | 854.08                  |
| 26 22 13 00-0160 | EA  | 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 6,677.72   | 1,009.37                |
| 26 22 13 00-0161 | EA  | 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer   | 8,930.77   | 1,164.66                |
| 26 22 13 00-0162 | EA  | 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 11,385.66  | 1,397.58                |
| 26 22 13 00-0163 | EA  | 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 14,792.43  | 1,552.87                |
| 26 22 13 00-0164 | EA  | 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 19,590.97  | 1,941.10                |
| 26 22 13 00-0165 | EA  | 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer  | 27,518.54  | 2,406.95                |
| 26 22 13 00-0166 |     | <b>80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0147)</small>  |  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....    | 5,270.28                  | 698.79                  |
| 26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....    | 6,423.49                  | 854.08                  |
| 26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....    | 7,753.07                  | 1,009.37                |
| 26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....    | 10,451.93                 | 1,164.66                |
| 26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer..... | 13,369.77                 | 1,397.58                |
| 26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....   | 17,489.35                 | 1,552.87                |
| 26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....   | 23,216.27                 | 1,941.10                |
| 26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....   | 32,758.07                 | 2,406.95                |
| <b>26 22 13 00-0175 Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small></b>  |                           |                         |
| <i>Note: Two taps at 2.5%, four at -2.5%.</i>  |                           |                         |
| <b>26 22 13 00-0176 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small></b>   |                           |                         |
| 26 22 13 00-0177 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 5,027.77                  | 698.79                  |
| 26 22 13 00-0178 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 6,129.55                  | 854.08                  |
| 26 22 13 00-0179 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 7,392.98                  | 1,009.37                |
| 26 22 13 00-0180 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 9,944.87                  | 1,164.66                |
| 26 22 13 00-0181 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....   | 13,399.16                 | 1,397.58                |
| 26 22 13 00-0182 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....     | 16,683.46                 | 1,552.87                |
| 26 22 13 00-0183 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....     | 22,131.13                 | 1,941.10                |
| 26 22 13 00-0184 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....     | 31,192.82                 | 2,406.95                |
| <b>26 22 13 00-0185 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small></b>   |                           |                         |
| 26 22 13 00-0186 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 5,752.83                  | 698.79                  |
| 26 22 13 00-0187 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 7,013.83                  | 854.08                  |
| 26 22 13 00-0188 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 8,468.33                  | 1,009.37                |
| 26 22 13 00-0189 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 11,468.49                 | 1,164.66                |
| 26 22 13 00-0190 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....   | 17,259.61                 | 1,397.58                |
| 26 22 13 00-0191 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....     | 21,646.19                 | 1,552.87                |
| 26 22 13 00-0192 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....     | 27,608.27                 | 1,941.10                |
| 26 22 13 00-0193 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....     | 40,865.99                 | 2,406.95                |
| <b>26 22 13 00-0194 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small></b>  |                           |                         |
| 26 22 13 00-0195 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....       | 6,480.34                  | 698.79                  |
| 26 22 13 00-0196 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....       | 7,898.10                  | 854.08                  |
| 26 22 13 00-0197 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....       | 9,543.66                  | 1,009.37                |
| 26 22 13 00-0198 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....       | 12,989.63                 | 1,164.66                |
| 26 22 13 00-0199 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....    | 20,360.72                 | 1,397.58                |
| 26 22 13 00-0200 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 26,145.97                 | 1,552.87                |
| 26 22 13 00-0201 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 33,082.95                 | 1,941.10                |
| 26 22 13 00-0202 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....      | 48,591.79                 | 2,406.95                |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 22 13 00-0203</b> <b>3 Phase Weathershields</b> <small>(26 22 13 00-0056)</small><br>Note: Use with type DT-3 and DS-3.   |                           |                         |
| 26 22 13 00-0204 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....   | 1,658.36                  |                         |
| 26 22 13 00-0205 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....  | 2,816.20                  |                         |
| 26 22 13 00-0206 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....  | 2,816.20                  |                         |
| <b>26 22 13 00-0207</b> <b>Three Phase Mounting Brackets</b> <small>(26 22 13 00-0056)</small>  |                           |                         |
| 26 22 13 00-0208 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA .....   | 1,447.47                  | 281.10                  |
| <b>26 22 13 00-0209</b> <b>Pad Mounted Commercial Type Distribution Transformers UL Listed</b> <small>(26 22 13)</small>  |                           |                         |
| <b>26 22 13 00-0210</b> <b>Distribution 3 Phase Oil Filled Transformer</b> <small>(26 22 13 00-0209)</small><br>Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution.<br>KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent<br>above and below. |                           |                         |
| <b>26 22 13 00-0211</b> <b>Factory Modifications</b> <small>(26 22 13 00-0210)</small><br>Note: For use with series 4100 3 phase transformers.  |                           |                         |
| 26 22 13 00-0212 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification .....  | 3,038.73                  |                         |
| 26 22 13 00-0213 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification .....  | 494.13                    |                         |
| 26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification .....   | 1,976.53                  |                         |
| 26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification .....   | 5,694.49                  |                         |
| 26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification .....  | 697.60                    |                         |
| 26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification .....   | 552.26                    |                         |
| <b>26 22 13 00-0218</b> <b>Accessories For Transformer Liquid Containment Area</b> <small>(26 22 13 00-0210)</small><br>Note: Reinforced concrete curb with 6" slab.  |                           |                         |
| 26 22 13 00-0219 EA Containment Area For 75 KVA .....   | 7,758.95                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,481.85                  |                         |
| 26 22 13 00-0220 EA Containment Area For 112.5 KVA .....  | 7,758.95                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,481.85                  |                         |
| 26 22 13 00-0221 EA Containment Area For 150 KVA .....  | 7,758.95                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,481.85                  |                         |
| 26 22 13 00-0222 EA Containment Area For 225 KVA .....  | 7,758.95                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,481.85                  |                         |
| 26 22 13 00-0223 EA Containment Area For 300 KVA .....  | 7,750.98                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,479.46                  |                         |
| 26 22 13 00-0224 EA Containment Area For 500 KVA .....  | 7,750.98                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,479.46                  |                         |
| 26 22 13 00-0225 EA Containment Area For 750 KVA .....  | 7,832.37                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,479.46                  |                         |
| 26 22 13 00-0226 EA Containment Area For 1,000 KVA .....  | 9,012.47                  | 2,222.73                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....  | 1,479.46                  |                         |
| <b>26 22 13 00-0227</b> <b>Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277<br/>Volt, 480 Volt, 95 KV BIL</b> <small>(26 22 13 00-0210)</small><br>Note: Rated to 5 KVA.  |                           |                         |
| 26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....  | 18,794.63                 | 1,863.45                |
| 26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....  | 20,538.62                 | 1,863.45                |
| 26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 21,701.28                 | 1,863.45                |
| 26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 25,189.27                 | 1,863.45                |
| 26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 27,021.91                 | 2,795.18                |
| 26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 28,184.57                 | 2,795.18                |
| 26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 42,136.52                 | 2,795.18                |
| 26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 53,866.52                 | 3,726.89                |
| 26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 68,981.13                 | 3,726.89                |
| <b>26 22 13 00-0237</b> <b>Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120<br/>Volt, 95 BIL</b> <small>(26 22 13 00-0210)</small><br>Note: Rated to 5 KVA.   |                           |                         |
| 26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer,<br>Pad Mounted .....  | 19,375.96                 | 1,863.45                |
| 26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer,<br>Pad Mounted .....  | 21,701.28                 | 1,863.45                |
| 26 22 13 00-0240 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil<br>Transformer, Pad Mounted .....   | 22,282.61                 | 1,863.45                |
| 26 22 13 00-0241 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer,<br>Pad Mounted .....   | 22,863.94                 | 1,863.45                |



|                         | MINOR<br>CSI UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------|---|---------------------------|-------------------------|
| 26 22 13 00-0242        | EA               | 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....   | 27,021.91                 | 2,795.18                |
| 26 22 13 00-0243        | EA               | 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....   | 29,347.24                 | 2,795.18                |
| 26 22 13 00-0244        | EA               | 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....   | 42,136.52                 | 2,795.18                |
| 26 22 13 00-0245        | EA               | 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....   | 54,447.85                 | 3,726.89                |
| 26 22 13 00-0246        | EA               | 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....   | 68,981.13                 | 3,726.89                |
| <b>26 22 13 00-0247</b> |                  | <b>Primary 5 KV Or 15 KV, Secondary 277/480 Volt</b> <small>(26 22 13 00-0209)</small>  |                           |                         |
|                         |                  | Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.  |                           |                         |
| 26 22 13 00-0248        | EA               | 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 65,734.89                 | 2,449.08                |
| 26 22 13 00-0249        | EA               | 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 71,730.16                 | 2,891.18                |
| 26 22 13 00-0250        | EA               | 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 80,447.23                 | 3,533.67                |
| 26 22 13 00-0251        | EA               | 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 95,901.15                 | 3,975.78                |
| 26 22 13 00-0252        | EA               | 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 118,141.74                | 4,184.90                |
| 26 22 13 00-0253        | EA               | 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 142,504.37                | 6,114.74                |
| 26 22 13 00-0254        | EA               | 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 167,820.55                | 6,917.85                |
| 26 22 13 00-0255        | EA               | 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 210,318.01                | 7,951.55                |
| 26 22 13 00-0256        | EA               | 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 232,852.18                | 8,349.12                |
| 26 22 13 00-0257        | EA               | 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 245,433.06                | 9,303.63                |
| 26 22 13 00-0258        | EA               | 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase .....  | 282,405.13                | 9,939.75                |
| <b>26 22 13 00-0259</b> |                  | <b>Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled</b> <small>(26 22 13 00-0209)</small>   |                           |                         |
| 26 22 13 00-0260        | EA               | 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....  | 122,542.40                | 6,920.39                |
| 26 22 13 00-0261        | EA               | 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....  | 150,920.16                | 7,958.48                |
| 26 22 13 00-0262        | EA               | 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....  | 171,760.99                | 8,377.29                |
| 26 22 13 00-0263        | EA               | 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....  | 182,324.54                | 9,362.89                |
| 26 22 13 00-0264        | EA               | 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....  | 204,605.48                | 9,646.60                |
| <b>26 22 13 00-0265</b> |                  | <b>Silicone Filled Distribution Transformers, 3 Phase</b> <small>(26 22 13 00-0209)</small>   |                           |                         |
|                         |                  | Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.  |                           |                         |
| 26 22 13 00-0266        | EA               | 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 114,091.14                | 2,891.18                |
| 26 22 13 00-0267        | EA               | 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 122,296.50                | 3,533.67                |
| 26 22 13 00-0268        | EA               | 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 143,355.52                | 3,975.78                |
| 26 22 13 00-0269        | EA               | 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 174,003.75                | 4,184.90                |
| 26 22 13 00-0270        | EA               | 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 208,096.57                | 6,114.74                |
| 26 22 13 00-0271        | EA               | 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 265,028.00                | 6,917.85                |
| 26 22 13 00-0272        | EA               | 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 322,608.84                | 7,951.55                |
| 26 22 13 00-0273        | EA               | 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase .....  | 369,370.03                | 8,349.12                |
| <b>26 22 13 00-0274</b> |                  | <b>Foam Core Poly Transformer Pads</b> <small>(26 22 13)</small>  |                           |                         |
| 26 22 13 00-0275        | EA               | Single Phase Foam Core Poly Pads.....   | 451.36                    | 51.23                   |
|                         |                  | Note: Excludes site prep.   |                           |                         |
| <b>26 24</b>            |                  | <b>Switchboards and Panelboards</b> <small>(26 24)</small>  |                           |                         |
| <b>26 24 13</b>         |                  | <b>Switchboards</b> <small>(26 24)</small>  |                           |                         |
|                         |                  | Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation. |                           |                         |
| 26 24 13 00-0001        |                  | <b>Fusible Switch Type 240 Volt, 3 Phase, 3 Wire</b> <small>(26 24 13)</small>  |                           |                         |
| 26 24 13 00-0002        |                  | <b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0001)</small>  |                           |                         |
|                         |                  | Note: Copper bus, non-metering type, with fuses.  |                           |                         |
| 26 24 13 00-0003        | EA               | 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....   | 4,713.20                  | 1,345.48                |
| 26 24 13 00-0004        | EA               | 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....   | 5,184.61                  | 1,423.15                |
| 26 24 13 00-0005        | EA               | 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....   | 8,027.81                  | 1,614.36                |
| 26 24 13 00-0006        | EA               | 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....   | 8,643.44                  | 1,730.65                |
| 26 24 13 00-0007        | EA               | 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....   | 13,398.76                 | 1,845.24                |
| 26 24 13 00-0008        | EA               | 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....   | 14,890.58                 | 1,961.99                |
| 26 24 13 00-0009        | EA               | 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 5,563.15                  | 1,345.48                |
| 26 24 13 00-0010        | EA               | 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 6,975.88                  | 1,423.15                |
| 26 24 13 00-0011        | EA               | 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 9,536.33                  | 1,615.74                |
| 26 24 13 00-0012        | EA               | 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 12,803.53                 | 1,730.65                |
| 26 24 13 00-0013        | EA               | 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 13,398.76                 | 1,847.09                |
| 26 24 13 00-0014        | EA               | 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 14,890.58                 | 1,961.99                |
| 26 24 13 00-0015        | EA               | 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 17,738.00                 | 2,051.21                |
| 26 24 13 00-0016        | EA               | 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 20,053.34                 | 2,197.49                |
| 26 24 13 00-0017        | EA               | 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....   | 23,552.25                 | 2,368.85                |
| 26 24 13 00-0018        | EA               | 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 3,341.93                  | 1,192.12                |
| 26 24 13 00-0019        | EA               | 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 3,664.37                  | 1,269.18                |
| 26 24 13 00-0020        | EA               | 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 4,201.13                  | 1,461.00                |
| 26 24 13 00-0021        | EA               | 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 4,507.09                  | 1,522.38                |

|              |  |
|--------------|--|
| <b>26</b>    | <b>Electrical</b>                          |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b> |
| <b>26 24</b> | <b>Switchboards and Panelboards</b>        |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 4,774.39                  | 1,577.28                |
| 26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 5,211.09                  | 1,691.11                |
| 26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....   | 5,629.47                  | 1,807.09                |
| <b>26 24 13 00-0025 Branch Breaker Units</b> <small>(26 24 13 00-0001)</small>  |                           |                         |
| Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion. |                           |                         |
| 26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker.....  | 369.67                    | 46.91                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 28.15                     |                         |
| 26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker.....   | 544.20                    | 73.84                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 44.30                     |                         |
| 26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker.....  | 1,429.45                  | 134.59                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 80.75                     |                         |
| 26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker.....  | 2,505.75                  | 175.36                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 105.21                    |                         |
| 26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker.....  | 4,523.10                  | 430.70                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 258.38                    |                         |
| 26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker.....  | 7,110.87                  | 430.70                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 258.38                    |                         |
| 26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....  | 11,563.84                 | 767.57                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 460.55                    |                         |
| <b>26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire</b> <small>(26 24 13)</small>   |                           |                         |
| <b>26 24 13 00-0034 Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0033)</small>   |                           |                         |
| Note: Copper bus, non-metering type, with fuses.  |                           |                         |
| 26 24 13 00-0035 EA 200/400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 6,641.39                  | 1,745.88                |
| 26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 7,372.75                  | 1,745.88                |
| 26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 10,558.59                 | 2,268.87                |
| 26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 11,899.24                 | 2,268.87                |
| <b>26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire</b> <small>(26 24 13)</small>   |                           |                         |
| <b>26 24 13 00-0040 Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0039)</small>   |                           |                         |
| Note: Copper bus, non-metering type, with fuses.  |                           |                         |
| 26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 4,232.25                  | 1,192.12                |
| 26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 4,683.01                  | 1,269.18                |
| 26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 6,930.51                  | 1,461.00                |
| 26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....  | 7,524.22                  | 1,576.06                |
| 26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....  | 5,039.10                  | 1,192.12                |
| 26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....  | 6,244.98                  | 1,269.18                |
| 26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....  | 8,606.27                  | 1,461.00                |
| 26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....  | 12,094.63                 | 1,576.06                |
| 26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....  | 14,157.79                 | 1,768.95                |
| 26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 3,066.01                  | 1,038.14                |
| 26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 3,411.55                  | 1,115.36                |
| 26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 4,003.80                  | 1,307.18                |
| 26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 4,290.38                  | 1,368.55                |
| 26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 4,565.30                  | 1,423.15                |
| 26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 4,942.92                  | 1,522.38                |
| 26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 5,309.74                  | 1,614.36                |
| 26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 6,588.45                  | 1,999.68                |
| 26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 7,351.92                  | 2,191.95                |
| 26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....   | 8,542.10                  | 2,365.01                |
| <b>26 24 13 00-0060 Branch Breaker Units</b> <small>(26 24 13 00-0039)</small>  |                           |                         |
| Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion. |                           |                         |
| 26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker.....  | 206.68                    | 40.76                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 24.46                     |                         |
| 26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker.....   | 329.84                    | 67.68                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 40.61                     |                         |
| 26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker.....  | 947.77                    | 94.60                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 56.76                     |                         |
| 26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker.....  | 2,648.05                  | 121.52                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 72.91                     |                         |
| 26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker.....  | 4,224.69                  | 296.11                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 177.65                    |                         |
| 26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker.....  | 5,941.83                  | 296.11                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 177.65                    |                         |
| 26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker.....  | 9,837.07                  | 565.30                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   |                           |                         |
|   | 339.21                    |                         |
| <b>26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire</b> <small>(26 24 13)</small>   |                           |                         |
| <b>26 24 13 00-0069 Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0068)</small>   |                           |                         |
| Note: Copper bus, non-metering type, with fuses.  |                           |                         |
| 26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....  | 4,715.08                  | 1,345.48                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....       | 5,182.50                  | 1,423.15                |
| 26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....       | 8,025.09                  | 1,614.36                |
| 26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....     | 8,640.32                  | 1,730.65                |
| 26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....     | 13,391.67                 | 1,845.24                |
| 26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....     | 14,890.58                 | 1,961.99                |
| 26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....   | 5,565.03                  | 1,345.48                |
| 26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....   | 6,973.77                  | 1,423.15                |
| 26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....   | 9,536.33                  | 1,615.74                |
| 26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker..... | 12,800.41                 | 1,730.65                |
| 26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker..... | 13,395.21                 | 1,847.09                |
| 26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker..... | 14,890.58                 | 1,961.99                |
| 26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....          | 3,475.40                  | 1,192.12                |
| 26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....          | 3,853.75                  | 1,269.18                |
| 26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....          | 4,484.11                  | 1,461.00                |
| 26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 4,799.82                  | 1,522.38                |
| 26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 5,102.82                  | 1,577.28                |
| 26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 5,528.60                  | 1,691.11                |
| 26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 5,960.63                  | 1,807.09                |
| 26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 7,030.09                  | 2,053.52                |
| 26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 7,740.47                  | 2,197.34                |
| 26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 9,022.67                  | 2,361.16                |

## 26 24 13 00-0092

**Branch Breaker Units** (26 24 13 00-0092)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

|  |           |        |
|--|-----------|--------|
| 26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....             | 369.67    | 46.91  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 28.15     |        |
| 26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....            | 544.20    | 73.84  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 44.30     |        |
| 26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker.....           | 1,429.45  | 134.59 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 80.75     |        |
| 26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....           | 2,505.75  | 175.36 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 105.21    |        |
| 26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....           | 4,523.10  | 430.70 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 258.38    |        |
| 26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....           | 7,110.87  | 430.70 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 258.38    |        |
| 26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....         | 11,563.84 | 767.57 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 460.55    |        |

## 26 24 13 00-0100

**Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire** (26 24 13)

## 26 24 13 00-0101

**Incoming Service Section Main Device Only** (26 24 13 00-0100)

Note: Copper bus, non-metering type, with fuses.

|  |           |          |
|--|-----------|----------|
| 26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....       | 6,162.80  | 1,845.24 |
| 26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....       | 6,732.46  | 1,961.99 |
| 26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....       | 9,274.41  | 2,189.96 |
| 26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....     | 10,113.48 | 2,344.85 |
| 26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....   | 7,605.82  | 1,845.24 |
| 26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....   | 9,966.74  | 1,961.99 |
| 26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....   | 11,277.56 | 2,192.41 |
| 26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker..... | 14,028.76 | 2,344.85 |
| 26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker..... | 14,701.83 | 2,500.37 |
| 26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker..... | 16,278.09 | 2,655.73 |
| 26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....          | 3,475.40  | 1,192.12 |
| 26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....          | 3,853.75  | 1,269.18 |
| 26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....          | 4,484.11  | 1,461.00 |
| 26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 4,799.82  | 1,522.38 |
| 26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 5,102.82  | 1,577.28 |
| 26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 5,528.60  | 1,691.11 |
| 26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....        | 5,960.63  | 1,807.09 |

## 26 24 13 00-0119

**Branch Breaker Units** (26 24 13 00-0119)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

|  |          |        |
|--|----------|--------|
| 26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....             | 740.34   | 46.91  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 28.15    |        |
| 26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....            | 863.14   | 73.84  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 44.30    |        |
| 26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....           | 1,565.65 | 134.59 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 80.75    |        |
| 26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....           | 2,505.75 | 175.36 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 105.21   |        |
| 26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....           | 6,009.22 | 430.70 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 258.38   |        |
| 26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....           | 6,141.97 | 430.70 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 258.38   |        |
| 26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....         | 9,893.26 | 767.57 |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 460.55   |        |

|              |  |
|--------------|--|
| <b>26</b>    | <b>Electrical</b>                          |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b> |
| <b>26 24</b> | <b>Switchboards and Panelboards</b>        |



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 26 24 13 00-0127 |     | <b>Fusible Branch Circuit Switch</b> <small>(26 24 13)</small><br>Note: Includes switch fuses, and portion of distribution section occupied by that branch device. |                           |                         |
| 26 24 13 00-0128 |     | <b>240 Volt, 2 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>   |                           |                         |
| 26 24 13 00-0129 | EA  | 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....   | 798.65                    | 120.75                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0130 | EA  | 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....   | 796.07                    | 120.75                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0131 | EA  | 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....   | 796.07                    | 120.75                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0132 | EA  | 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....  | 1,234.42                  | 159.21                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0133 | EA  | 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....   | 1,234.42                  | 159.21                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0134 |     | <b>240 Volt, 2 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>   |                           |                         |
| 26 24 13 00-0135 | EA  | 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit .....  | 903.83                    | 118.45                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 288.73                    |                         |
| 26 24 13 00-0136 | EA  | 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit .....  | 1,291.00                  | 118.45                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 288.73                    |                         |
| 26 24 13 00-0137 | EA  | 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit .....  | 3,325.58                  | 319.18                  |
| 26 24 13 00-0138 |     | <b>240 Volt, 3 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>   |                           |                         |
| 26 24 13 00-0139 | EA  | 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,014.20                  | 136.13                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0140 | EA  | 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,011.62                  | 136.13                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0141 | EA  | 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,011.62                  | 136.13                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0142 | EA  | 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....  | 1,512.67                  | 182.28                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0143 | EA  | 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,512.67                  | 182.28                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0144 |     | <b>240 Volt, 3 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>   |                           |                         |
| 26 24 13 00-0145 | EA  | 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....  | 1,089.90                  | 133.82                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0146 | EA  | 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....  | 1,721.05                  | 133.82                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 288.73                    |                         |
| 26 24 13 00-0147 | EA  | 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....  | 4,419.30                  | 357.32                  |
| 26 24 13 00-0148 | EA  | 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....  | 6,284.96                  | 457.77                  |
| 26 24 13 00-0149 | EA  | 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit .....  | 11,583.24                 | 620.21                  |
| 26 24 13 00-0150 |     | <b>600 Volt, 3 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>   |                           |                         |
| 26 24 13 00-0151 | EA  | 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,405.04                  | 136.13                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0152 | EA  | 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,402.42                  | 136.13                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0153 | EA  | 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....   | 1,405.04                  | 136.13                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0154 | EA  | 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....  | 2,102.38                  | 182.28                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0155 | EA  | 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....   | 2,146.03                  | 182.28                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0156 | EA  | 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....   | 4,495.34                  | 238.43                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0157 |     | <b>600 Volt, 3 Pole, Single Branch Switch Units</b> <small>(26 24 13 00-0164)</small>  |                           |                         |
| 26 24 13 00-0158 | EA  | 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....  | 1,510.84                  | 133.82                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 301.39                    |                         |
| 26 24 13 00-0159 | EA  | 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....  | 2,255.45                  | 133.82                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 288.73                    |                         |
| 26 24 13 00-0160 | EA  | 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....  | 5,503.30                  | 357.32                  |
|                  |     | <i>For Electrical Interlock Kit, Add</i>   | 288.73                    |                         |
| 26 24 13 00-0161 | EA  | 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....  | 6,695.26                  | 457.77                  |
| 26 24 13 00-0162 | EA  | 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....  | 11,583.24                 | 620.21                  |
| 26 24 13 00-0163 |     | <b>Service And Distribution Structures</b> <small>(26 24 13)</small>   |                           |                         |
| 26 24 13 00-0164 |     | <b>Distribution Section 600 Volt, 250 Volt DC</b> <small>(26 24 13 00-0163)</small>  |                           |                         |
| 26 24 13 00-0165 |     | <b>600 Amperes, 4 Wire, Main Bus</b> <small>(26 24 13 00-0164)</small>   |                           |                         |
| 26 24 13 00-0166 | EA  | 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 3,363.68                  | 1,415.16                |
| 26 24 13 00-0167 | EA  | 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 3,961.17                  | 1,415.16                |
| 26 24 13 00-0168 | EA  | 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 4,412.44                  | 1,799.71                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 4,909.37                  | 1,799.71                |
| <b>26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus</b> (26 24 13 00-0164)   |                           |                         |
| 26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....         | 3,815.91                  | 1,638.20                |
| 26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 4,393.75                  | 1,638.20                |
| 26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 4,909.37                  | 2,030.44                |
| 26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....   | 5,355.79                  | 2,030.44                |
| <b>26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus</b> (26 24 13 00-0164)   |                           |                         |
| 26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....       | 4,515.86                  | 1,999.68                |
| 26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 5,110.48                  | 1,999.68                |
| 26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 5,661.00                  | 2,461.14                |
| 26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 6,315.00                  | 2,461.14                |
| <b>26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus</b> (26 24 13 00-0164)   |                           |                         |
| 26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....       | 5,426.28                  | 2,191.95                |
| 26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 6,155.37                  | 2,191.95                |
| 26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 6,815.49                  | 2,707.26                |
| 26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 7,385.21                  | 2,707.26                |
| <b>26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus</b> (26 24 13 00-0164)   |                           |                         |
| 26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....       | 5,711.46                  | 2,199.65                |
| 26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 6,507.52                  | 2,476.53                |
| 26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 6,618.29                  | 2,476.53                |
| 26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 6,920.14                  | 2,614.96                |
| <b>26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus</b> (26 24 13 00-0164)   |                           |                         |
| 26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 7,560.73                  | 2,476.53                |
| 26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 7,669.85                  | 2,476.53                |
| 26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 7,971.70                  | 2,614.96                |
| <b>26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus</b> (26 24 13 00-0164)   |                           |                         |
| 26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 7,757.93                  | 2,614.96                |
| 26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 7,971.70                  | 2,614.96                |
| 26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus..... | 8,080.70                  | 2,614.96                |
| <b>26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board</b> (26 24 13 00-0164)                     |                           |                         |
| 26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....         | 656.88                    | 184.58                  |
| 26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....   | 741.92                    | 184.58                  |
| 26 24 13 00-0201 EA Cable Supports In Pull Box.....  | 250.80                    | 46.15                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          |                           | 25.64                   |
| <b>26 24 13 00-0202 Underground Pull Sections</b> (26 24 13 00-0164)   |                           |                         |
| Note: Excludes no bus or terminal.   |                           |                         |
| 26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....               | 652.64                    | 215.35                  |
| 26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....                    | 1,094.67                  | 276.88                  |
| 26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....                    | 1,094.67                  | 276.88                  |
| 26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....                    | 832.42                    | 215.35                  |
| 26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....                    | 1,168.93                  | 315.33                  |
| 26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....               | 1,343.17                  | 315.33                  |
| 26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....               | 1,419.54                  | 407.63                  |
| 26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....                     | 1,512.61                  | 407.63                  |
| <b>26 24 13 00-0211 Switchboard Sections</b> (26 24 13 00-0163)  |                           |                         |
| 26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....                         | 5,095.27                  | 1,281.80                |
| 26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....                         | 5,575.03                  | 1,393.31                |
| 26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....                       | 7,009.50                  | 1,780.33                |
| 26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....                       | 7,663.42                  | 1,942.15                |
| 26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....                       | 8,170.84                  | 2,067.52                |
| 26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....                        | 5,844.43                  | 1,124.43                |
| 26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....   | 3,559.96                  | 1,068.13                |
| 26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....   | 3,930.93                  | 1,158.28                |
| 26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....                            | 8,377.91                  | 1,281.80                |
| 26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....                       | 9,019.50                  | 1,285.18                |
| 26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....                     | 9,913.37                  | 1,434.84                |
| 26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....                    | 209.40                    | 76.91                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          |                           | 46.97                   |
| 26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....                   | 253.94                    | 78.30                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          |                           | 55.49                   |
| 26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....                   | 1,051.57                  | 92.45                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          |                           | 119.55                  |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|--|------------------------|----------------------|
| 26 24 13 00-0226  | EA  |     | 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                              | 1,714.30<br>166.47     | 199.20               |
| 26 24 13 00-0227  | EA  |     | 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | 709.36<br>96.14        | 277.49               |
| 26 24 13 00-0228  | EA  |     | 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                       | 1,866.10<br>119.55     | 160.28               |
| <b>26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)</b>  |     |     |  |                        |                      |
| 26 24 13 00-0230  | EA  |     | 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 2,643.06               | 667.58               |
| 26 24 13 00-0231  | EA  |     | 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 3,734.22               | 902.77               |
| 26 24 13 00-0232  | EA  |     | 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 4,235.92               | 1,098.75             |
| 26 24 13 00-0233  | EA  |     | 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 5,424.71               | 1,538.21             |
| 26 24 13 00-0234  | EA  |     | 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 6,731.20               | 1,922.77             |
| 26 24 13 00-0235  | EA  |     | 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 7,312.44               | 1,922.77             |
| 26 24 13 00-0236  | EA  |     | 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 9,130.29               | 2,563.74             |
| 26 24 13 00-0237  | EA  |     | 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 10,244.80              | 2,563.74             |
| 26 24 13 00-0238  | EA  |     | 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 12,067.27              | 3,051.97             |
| 26 24 13 00-0239  | EA  |     | 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....  | 14,118.07              | 3,051.97             |
| <b>26 24 13 00-0240 Main Devices (26 24 13)</b>   |     |     |  |                        |                      |
| <b>26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)</b>   |     |     |  |                        |                      |
| <b>26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)</b>  |     |     |  |                        |                      |
| Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.   |     |     |  |                        |                      |
| 26 24 13 00-0243  | EA  |     | 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 8,881.33<br>967.03     | 1,615.13             |
| 26 24 13 00-0244  | EA  |     | 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 16,070.86<br>1,613.51  | 2,691.88             |
| 26 24 13 00-0245  | EA  |     | 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                 | 35,348.81<br>2,689.19  | 4,522.35             |
| 26 24 13 00-0246  | EA  |     | 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 57,070.02<br>4,471.56  | 7,321.90             |
| 26 24 13 00-0247  | EA  |     | Ground-Fault Trip All Power Breakers - Factory Installed .....   | 2,790.93               |                      |
| 26 24 13 00-0248  | EA  |     | Key Interlock All Power Breakers - Factory Installed .....   | 360.44                 |                      |
| 26 24 13 00-0249  | EA  |     | Short Time Delay Selective Trip - Factory Installed .....  | 472.87                 |                      |
| 26 24 13 00-0250  | EA  |     | Shunt Trip Manually Open Breakers - Factory Installed .....  | 340.60                 |                      |
| <b>26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)</b>  |     |     |  |                        |                      |
| Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.   |     |     |  |                        |                      |
| 26 24 13 00-0252  | EA  |     | 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                  | 10,304.69<br>1,020.04  | 1,692.04             |
| 26 24 13 00-0253  | EA  |     | 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 18,966.73<br>1,699.06  | 2,845.69             |
| 26 24 13 00-0254  | EA  |     | 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>             | 39,538.59<br>2,827.60  | 4,691.55             |
| 26 24 13 00-0255  | EA  |     | 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 61,387.43<br>4,728.12  | 7,691.08             |
| <b>26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)</b>  |     |     |  |                        |                      |
| Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.   |     |     |  |                        |                      |
| 26 24 13 00-0257  | EA  |     | 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                           | 7,174.26<br>887.43     | 1,476.69             |
| 26 24 13 00-0258  | EA  |     | 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 12,997.08<br>1,479.05  | 2,476.53             |
| 26 24 13 00-0259  | EA  |     | 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                               | 19,507.98<br>2,465.09  | 4,153.18             |
| 26 24 13 00-0260  | EA  |     | 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 33,534.17<br>4,105.56  | 6,691.23             |
| 26 24 13 00-0261  | EA  |     | 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                               | 54,701.52<br>6,826.40  | 10,921.33            |
| <b>26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)</b>                                      |     |     |  |                        |                      |
| Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated. |     |     |  |                        |                      |
| 26 24 13 00-0263  | EA  |     | 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 8,284.19<br>846.41     | 1,415.16             |
| 26 24 13 00-0264  | EA  |     | 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 15,309.32<br>1,410.35  | 2,368.85             |
| 26 24 13 00-0265  | EA  |     | 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 22,110.21<br>2,354.41  | 3,937.83             |
| 26 24 13 00-0266  | EA  |     | 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 36,525.17<br>3,924.02  | 6,414.36             |
| 26 24 13 00-0267  | EA  |     | 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 57,491.83<br>6,554.89  | 10,998.23            |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 24 13 00-0268 Molded Case Circuit Breakers Conventional</b> (26 24 13 00-0241)                                 |                           |                         |
| 26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....                         | 3,375.48                  | 1,292.10                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 744.30                    |                         |
| 26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....                        | 4,687.66                  | 1,292.10                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 809.59                    |                         |
| 26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....                        | 5,190.19                  | 1,538.21                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 887.43                    |                         |
| 26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....                        | 6,086.47                  | 1,538.21                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 961.38                    |                         |
| 26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....                      | 8,700.26                  | 1,845.86                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 1,053.57                  |                         |
| 26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....                    | 13,581.54                 | 1,845.86                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 1,165.32                  |                         |
| 26 24 13 00-0275 EA Shunt Trip, Factory Installed.....   | 357.13                    |                         |
| 26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....                           | 82.67                     |                         |
| <b>26 24 13 00-0277 Switchboard Branch Breaker 480 Volt</b> (26 24 13 00-0240)                                       |                           |                         |
| 26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                    | 624.59                    | 111.52                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 66.88                     |                         |
| 26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                   | 745.45                    | 147.98                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 88.74                     |                         |
| 26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                   | 2,046.76                  | 222.73                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 133.68                    |                         |
| 26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                   | 2,697.49                  | 279.50                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 167.69                    |                         |
| 26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                   | 3,284.34                  | 374.86                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 224.89                    |                         |
| 26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                   | 3,981.39                  | 480.69                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 288.42                    |                         |
| 26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                 | 6,382.24                  | 732.50                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 439.49                    |                         |
| 26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                 | 6,382.24                  | 732.50                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 439.49                    |                         |
| 26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                 | 8,950.49                  | 1,025.53                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 615.29                    |                         |
| 26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....                                 | 11,305.70                 | 1,538.21                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 922.93                    |                         |
| <b>26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker</b> (26 24 13 00-0240)                                     |                           |                         |
| 26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....  | 7,161.41                  | 667.58                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 400.58                    |                         |
| 26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....  | 7,288.33                  | 731.12                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 438.65                    |                         |
| 26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....  | 8,023.60                  | 1,098.75                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 659.24                    |                         |
| 26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....                                      | 13,542.94                 | 1,538.21                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 922.93                    |                         |
| 26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....                                      | 13,869.64                 | 1,701.58                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 1,020.94                  |                         |
| 26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....                                      | 18,737.87                 | 3,051.97                |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 1,831.21                  |                         |
| <b>26 24 13 00-0295 Branch Or Distribution Devices</b> (26 24 13)  |                           |                         |
| <b>26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers</b> (26 24 13 00-0295)                       |                           |                         |
| Note: Includes certified refurbished circuit breakers.   |                           |                         |
| 26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....    | 667.84                    | 55.38                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 36.92                     |                         |
| 26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....   | 679.54                    | 69.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 46.15                     |                         |
| 26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....   | 1,603.30                  | 83.06                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 55.37                     |                         |
| 26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....   | 2,319.92                  | 107.68                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 71.53                     |                         |
| 26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....  | 3,263.77                  | 132.90                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 88.60                     |                         |
| 26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....   | 4,267.73                  | 155.36                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 103.83                    |                         |
| 26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... | 6,491.22                  | 175.36                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 117.21                    |                         |
| <b>26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers</b> (26 24 13 00-0295)                       |                           |                         |
| Note: Includes certified refurbished circuit breakers.   |                           |                         |
| 26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....    | 461.45                    | 41.53                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 27.69                     |                         |
| 26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....   | 593.66                    | 55.38                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 36.92                     |                         |
| 26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....   | 1,592.46                  | 69.22                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                               | 46.15                     |                         |

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker and 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards.



|                                     |           |
|-------------------------------------|-----------|
| <b>Electrical</b>                   | <b>26</b> |
| Low-Voltage Electrical Distribution | 26 20     |
| Switchboards and Panelboards        | 26 24     |

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 24 16 00-0015 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....                             | 4,160.72                  | 1,445.92                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0016 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....                         | 4,423.28                  | 1,445.92                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0017 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....                        | 4,590.79                  | 1,599.74                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0018 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....                         | 4,845.53                  | 1,599.74                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0019 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....                       | 5,087.47                  | 1,768.95                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0020 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....                              | 5,247.98                  | 1,768.95                |
|                  |     | For NEMA 3R Panelboard, Add   | 2,059.59                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 267.20                    |                         |
| 26 24 16 00-0021 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....                          | 5,499.62                  | 1,768.95                |
|                  |     | For NEMA 3R Panelboard, Add   | 2,059.59                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 267.20                    |                         |
| 26 24 16 00-0022 |     | <b>120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards</b> (26 24 16 00-0002)   |                           |                         |
| 26 24 16 00-0023 | EA  | 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....            | 1,646.64                  | 423.01                  |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0024 | EA  | 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....              | 1,857.64                  | 423.01                  |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0025 | EA  | 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....        | 2,359.98                  | 722.96                  |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0026 | EA  | 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....      | 2,670.97                  | 722.96                  |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0027 | EA  | 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....       | 2,895.87                  | 884.47                  |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0028 | EA  | 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....      | 3,131.26                  | 884.47                  |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0029 | EA  | 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....        | 3,338.65                  | 1,061.37                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,523.32                  |                         |
| 26 24 16 00-0030 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....   | 4,026.37                  | 1,061.37                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,675.24                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 122.41                    |                         |
| 26 24 16 00-0031 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....  | 4,213.84                  | 1,299.79                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,675.24                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 122.41                    |                         |
| 26 24 16 00-0032 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....   | 4,418.76                  | 1,299.79                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,675.24                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 122.41                    |                         |
| 26 24 16 00-0033 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... | 4,644.64                  | 1,461.31                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0034 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....       | 4,824.96                  | 1,461.31                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0035 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....   | 5,018.21                  | 1,599.74                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0036 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....  | 5,226.37                  | 1,599.74                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0037 | EA  | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....   | 5,451.88                  | 1,892.00                |
|                  |     | For NEMA 3R Panelboard, Add   | 1,978.86                  |                         |
|                  |     | For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 24 16 00-0038        | EA  |     | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers | 5,697.68               | 1,892.00             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,978.86               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                 |                      |
| 26 24 16 00-0039        | EA  |     | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers        | 5,967.49               | 1,892.00             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 2,059.59               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                 |                      |
| 26 24 16 00-0040        | EA  |     | 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers    | 6,130.63               | 1,999.68             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 2,059.59               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                 |                      |
| <b>26 24 16 00-0041</b> |     |     | <b>120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards<sup>(26 24 16 00-0002)</sup></b>   |                        |                      |
| 26 24 16 00-0042        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers                              | 1,711.85               | 499.92               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0043        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers                                | 1,932.64               | 499.92               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0044        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers                             | 2,180.96               | 669.13               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0045        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers                           | 2,438.72               | 669.13               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0046        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers                            | 2,671.79               | 822.95               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0047        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers                           | 2,921.77               | 822.95               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0048        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers                             | 3,155.61               | 976.76               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,523.32               |                      |
| 26 24 16 00-0049        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers                         | 3,403.84               | 976.76               |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,675.24               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                 |                      |
| 26 24 16 00-0050        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers                        | 3,627.41               | 1,145.97             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,675.24               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                 |                      |
| 26 24 16 00-0051        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers                         | 3,884.77               | 1,145.97             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,675.24               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                 |                      |
| 26 24 16 00-0052        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers                       | 4,153.13               | 1,322.87             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,675.24               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                 |                      |
| 26 24 16 00-0053        | EA  |     | 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers                             | 4,410.41               | 1,322.87             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,675.24               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                 |                      |
| 26 24 16 00-0054        | EA  |     | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers                         | 4,943.67               | 1,599.74             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,978.86               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                 |                      |
| 26 24 16 00-0055        | EA  |     | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers                        | 5,131.84               | 1,599.74             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,978.86               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                 |                      |
| 26 24 16 00-0056        | EA  |     | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers                         | 5,428.47               | 1,776.64             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,978.86               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                 |                      |
| 26 24 16 00-0057        | EA  |     | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers                       | 5,707.43               | 1,776.64             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,978.86               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                 |                      |
| 26 24 16 00-0058        | EA  |     | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers                              | 5,896.14               | 1,938.15             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 2,059.59               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                 |                      |
| 26 24 16 00-0059        | EA  |     | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers                          | 6,184.92               | 1,938.15             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 2,059.59               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                 |                      |
| 26 24 16 00-0060        | EA  |     | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers                         | 5,892.52               | 1,719.72             |
|                         |     |     | <i>For NEMA 3R Panelboard, Add</i>   | 1,978.86               |                      |
|                         |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                 |                      |



|  |              |           |
|--|--------------|-----------|
| <b>Electrical</b>                          | <b>26</b>    |           |
| <b>Low-Voltage Electrical Distribution</b> | <b>26 20</b> | <b>26</b> |
| <b>Switchboards and Panelboards</b>        | <b>26 24</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST      | DEMOLITION<br>UNIT COST |
|---|--------------------------------|-------------------------|
| 26 24 16 00-0061 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With<br>Thirty-Four 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                        | 6,099.73<br>1,978.86<br>209.06 | 1,807.40                |
| 26 24 16 00-0062 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With<br>Thirty-Six 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                          | 6,411.47<br>1,978.86<br>209.06 | 1,903.54                |
| 26 24 16 00-0063 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With<br>Thirty-Eight 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                       | 6,714.16<br>1,978.86<br>209.06 | 2,015.07                |
| 26 24 16 00-0064 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With<br>Forty 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                              | 6,916.86<br>2,059.59<br>267.20 | 2,076.59                |
| 26 24 16 00-0065 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With<br>Forty-Two 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                           | 7,258.28<br>2,059.59<br>267.20 | 2,203.49                |
| <b>26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small></b>   |                                |                         |
| 26 24 16 00-0067 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity<br>Assembled Panelboard With Eight 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i>  | 1,979.93<br>1,523.32           | 484.54                  |
| 26 24 16 00-0068 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity<br>Assembled Panelboard With Ten 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i>  | 2,203.86<br>1,523.32           | 484.54                  |
| 26 24 16 00-0069 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity<br>Assembled Panelboard With Twelve 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i>   | 2,464.64<br>1,523.32           | 638.36                  |
| 26 24 16 00-0070 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity<br>Assembled Panelboard With Fourteen 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i>   | 2,806.31<br>1,523.32           | 638.36                  |
| 26 24 16 00-0071 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity<br>Assembled Panelboard With Sixteen 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>  | 3,381.38<br>1,523.32           | 961.39                  |
| 26 24 16 00-0072 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity<br>Assembled Panelboard With Eighteen 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i>  | 3,607.50<br>1,523.32           | 961.39                  |
| 26 24 16 00-0073 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity<br>Assembled Panelboard With Twenty 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i>  | 3,855.70<br>1,523.32           | 1,122.90                |
| 26 24 16 00-0074 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity<br>Assembled Panelboard With Twenty-Two 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 4,066.86<br>1,675.24<br>122.41 | 1,122.90                |
| 26 24 16 00-0075 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity<br>Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 4,343.30<br>1,675.24<br>122.41 | 1,299.79                |
| 26 24 16 00-0076 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity<br>Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>     | 4,540.88<br>1,675.24<br>122.41 | 1,299.79                |
| 26 24 16 00-0077 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity<br>Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 4,840.41<br>1,675.24<br>122.41 | 1,461.31                |
| 26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity<br>Assembled Panelboard With Thirty 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>         | 5,091.85<br>1,675.24<br>122.41 | 1,461.31                |
| 26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity<br>Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 5,950.20<br>1,978.86<br>209.06 | 1,692.04                |
| 26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity<br>Assembled Panelboard With Thirty-Four 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 6,223.72<br>1,978.86<br>209.06 | 1,784.33                |
| 26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity<br>Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 6,345.96<br>1,978.86<br>209.06 | 1,784.33                |
| 26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity<br>Assembled Panelboard With Thirty-Eight 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i> | 6,656.08<br>1,978.86<br>209.06 | 2,015.07                |
| 26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity<br>Assembled Panelboard With Forty 20 Ampere Breakers .....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>        | 6,863.56<br>2,059.59<br>267.20 | 2,015.07                |



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 26 24 16 00-0084 | EA  | 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two- 20 Ampere Breakers .....   | 7,013.29                  | 2,015.07                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 2,059.59                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 267.20                    |                         |
| 26 24 16 00-0085 | EA  | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers .....   | 6,930.14                  | 1,853.55                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |
| 26 24 16 00-0086 | EA  | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers .....  | 7,231.94                  | 1,961.22                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |
| 26 24 16 00-0087 | EA  | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers .....   | 7,358.96                  | 2,015.07                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |
| 26 24 16 00-0088 | EA  | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers ..... | 7,695.40                  | 2,138.12                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |
| 26 24 16 00-0089 | EA  | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers .....        | 7,902.32                  | 2,199.65                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 2,059.59                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 267.20                    |                         |
| 26 24 16 00-0090 | EA  | 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers .....    | 8,107.75                  | 2,276.56                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 2,059.59                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 267.20                    |                         |
| 26 24 16 00-0091 |     | <b>480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>  |                           |                         |
| 26 24 16 00-0092 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers .....                                  | 1,894.83                  | 492.23                  |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0093 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers .....                                    | 2,180.95                  | 492.23                  |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0094 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers .....                                 | 2,453.85                  | 676.81                  |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0095 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers .....                               | 2,739.91                  | 676.81                  |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0096 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers .....                                | 3,004.46                  | 846.02                  |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0097 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers .....                               | 3,285.00                  | 846.02                  |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0098 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers .....                                 | 3,579.22                  | 1,022.91                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,523.32                  |                         |
| 26 24 16 00-0099 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers .....                             | 3,846.07                  | 1,022.91                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,675.24                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 122.41                    |                         |
| 26 24 16 00-0100 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers .....                            | 4,142.79                  | 1,215.19                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,675.24                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 122.41                    |                         |
| 26 24 16 00-0101 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers .....                             | 4,428.08                  | 1,215.19                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,675.24                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 122.41                    |                         |
| 26 24 16 00-0102 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers .....                           | 4,687.68                  | 1,384.39                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,675.24                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 122.41                    |                         |
| 26 24 16 00-0103 | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers .....                                 | 4,968.22                  | 1,384.39                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,675.24                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 122.41                    |                         |
| 26 24 16 00-0104 | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers .....                             | 5,582.35                  | 1,684.35                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |
| 26 24 16 00-0105 | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers .....                            | 5,862.52                  | 1,684.35                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |
| 26 24 16 00-0106 | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers .....                             | 6,163.00                  | 1,845.86                |
|                  |     | <i>For NEMA 3R Panelboard, Add</i> .....   | 1,978.86                  |                         |
|                  |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....   | 209.06                    |                         |



|  |  |  |              |
|--|--|--|--------------|
|  |  | <b>Electrical</b>                          | <b>26</b>    |
|  |  | <b>Low-Voltage Electrical Distribution</b> | <b>26 20</b> |
|  |  | <b>Switchboards and Panelboards</b>        | <b>26 24</b> |

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| MINOR                   |     | DESCRIPTION  | TOTAL DIRECT                   | DEMOLITION |
|-------------------------|-----|--|--------------------------------|------------|
| CSI                     | UOM |  | UNIT COST                      | UNIT COST  |
| 26 24 16 00-0107        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty- Eight 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                      | 6,373.22<br>1,978.86<br>209.06 | 1,845.86   |
| 26 24 16 00-0108        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                              | 6,711.35<br>2,059.59<br>267.20 | 2,038.14   |
| 26 24 16 00-0109        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>                          | 6,943.07<br>2,059.59<br>267.20 | 2,038.14   |
| <b>26 24 16 00-0110</b> |     | <b>480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>   |                                |            |
| 26 24 16 00-0111        | EA  | 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>   | 2,389.36<br>1,523.32           | 522.99     |
| 26 24 16 00-0112        | EA  | 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>   | 2,668.17<br>1,523.32           | 569.14     |
| 26 24 16 00-0113        | EA  | 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>  | 2,950.43<br>1,523.32           | 707.57     |
| 26 24 16 00-0114        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>   | 3,557.66<br>1,523.32           | 861.40     |
| 26 24 16 00-0115        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>  | 3,831.03<br>1,523.32           | 953.69     |
| 26 24 16 00-0116        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>   | 4,077.37<br>1,523.32           | 1,030.61   |
| 26 24 16 00-0117        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i>  | 4,352.12<br>1,523.32           | 1,122.90   |
| 26 24 16 00-0118        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 4,615.31<br>1,675.24<br>122.41 | 1,215.19   |
| 26 24 16 00-0119        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 4,853.37<br>1,675.24<br>122.41 | 1,292.10   |
| 26 24 16 00-0120        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 5,111.11<br>1,675.24<br>122.41 | 1,369.01   |
| 26 24 16 00-0121        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 5,392.66<br>1,675.24<br>122.41 | 1,461.31   |
| 26 24 16 00-0122        | EA  | 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>        | 5,703.34<br>1,675.24<br>122.41 | 1,576.67   |
| 26 24 16 00-0123        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 7,050.10<br>1,978.86<br>209.06 | 1,753.57   |
| 26 24 16 00-0124        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 7,346.69<br>1,978.86<br>209.06 | 1,861.24   |
| 26 24 16 00-0125        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 7,548.25<br>1,978.86<br>209.06 | 1,907.39   |
| 26 24 16 00-0126        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i> | 7,885.78<br>1,978.86<br>209.06 | 2,030.44   |
| 26 24 16 00-0127        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>        | 8,110.75<br>2,059.59<br>267.20 | 2,107.36   |
| 26 24 16 00-0128        | EA  | 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 8,345.22<br>2,059.59<br>267.20 | 2,173.50   |
| 26 24 16 00-0129        |     | 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>   |                                |            |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST         | DEMOLITION UNIT COST |
|-------|------------|-----|---|--------------------------------|----------------------|
| 26 24 | 16 00-0130 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>  | 2,275.81<br>1,523.32           | 538.38               |
| 26 24 | 16 00-0131 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>  | 2,588.34<br>1,523.32           | 538.38               |
| 26 24 | 16 00-0132 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>   | 2,891.54<br>1,523.32           | 715.27               |
| 26 24 | 16 00-0133 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>   | 3,197.59<br>1,523.32           | 715.27               |
| 26 24 | 16 00-0134 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>  | 3,509.43<br>1,523.32           | 884.47               |
| 26 24 | 16 00-0135 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>   | 3,813.80<br>1,523.32           | 884.47               |
| 26 24 | 16 00-0136 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>   | 4,123.98<br>1,523.32           | 1,061.37             |
| 26 24 | 16 00-0137 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 4,432.64<br>1,675.24<br>122.41 | 1,061.37             |
| 26 24 | 16 00-0138 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 4,774.38<br>1,675.24<br>122.41 | 1,245.95             |
| 26 24 | 16 00-0139 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 5,052.76<br>1,675.24<br>122.41 | 1,245.95             |
| 26 24 | 16 00-0140 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i> | 5,349.64<br>1,675.24<br>122.41 | 1,253.65             |
| 26 24 | 16 00-0141 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>       | 5,668.85<br>1,675.24<br>122.41 | 1,253.65             |
| 26 24 | 16 00-0142 | EA  | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 6,472.29<br>1,978.86<br>209.06 | 1,738.18             |
| 26 24 | 16 00-0143 | EA  | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 6,798.07<br>1,978.86<br>209.06 | 1,738.18             |
| 26 24 | 16 00-0144 | EA  | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 7,038.21<br>1,978.86<br>209.06 | 1,830.47             |
| 26 24 | 16 00-0145 | EA  | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i> | 7,398.55<br>1,978.86<br>209.06 | 1,953.54             |
| 26 24 | 16 00-0146 | EA  | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>        | 7,658.31<br>2,059.59<br>267.20 | 1,953.54             |
| 26 24 | 16 00-0147 | EA  | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i><br><i>For Door-In-Door (Hinged) Trim Front, Add</i>    | 8,063.73<br>2,059.59<br>267.20 | 2,138.12             |
| 26 24 | 16 00-0148 |     | <b>277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> (26 24 16 00-0002)   |                                |                      |
| 26 24 | 16 00-0149 | EA  | 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>  | 2,938.31<br>1,523.32           | 661.43               |
| 26 24 | 16 00-0150 | EA  | 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>  | 3,259.38<br>1,523.32           | 661.43               |
| 26 24 | 16 00-0151 | EA  | 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>   | 3,566.53<br>1,523.32           | 876.78               |
| 26 24 | 16 00-0152 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>                                    | 4,255.44<br>1,523.32           | 876.78               |
| 26 24 | 16 00-0153 | EA  | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....<br><i>For NEMA 3R Panelboard, Add</i>                                     | 4,556.89<br>1,523.32           | 1,107.51             |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 26 24 16 00-0154 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers .....4,857.78   |                        | 1,107.51             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,523.32               |                      |
| 26 24 16 00-0155 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers .....5,147.12   |                        | 1,269.02             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,523.32               |                      |
| 26 24 16 00-0156 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers .....5,411.31   |                        | 1,269.02             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,675.24               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                 |                      |
| 26 24 16 00-0157 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....5,695.19   |                        | 1,445.92             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,675.24               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                 |                      |
| 26 24 16 00-0158 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers .....6,002.87   |                        | 1,445.92             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,675.24               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                 |                      |
| 26 24 16 00-0159 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers .....6,261.55   |                        | 1,599.74             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,675.24               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                 |                      |
| 26 24 16 00-0160 | EA    |     |     | 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....6,535.15  |                        | 1,599.74             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,675.24               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                 |                      |
| 26 24 16 00-0161 | EA    |     |     | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....8,373.14   |                        | 1,892.00             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,978.86               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                 |                      |
| 26 24 16 00-0162 | EA    |     |     | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers .....8,712.72   |                        | 1,892.00             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,978.86               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                 |                      |
| 26 24 16 00-0163 | EA    |     |     | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers .....8,951.72   |                        | 2,068.90             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,978.86               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                 |                      |
| 26 24 16 00-0164 | EA    |     |     | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers .....9,336.41  |                        | 2,068.90             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 1,978.86               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                 |                      |
| 26 24 16 00-0165 | EA    |     |     | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers .....9,601.37   |                        | 2,261.17             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 2,059.59               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                 |                      |
| 26 24 16 00-0166 | EA    |     |     | 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....9,876.86  |                        | 2,261.17             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 2,059.59               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                 |                      |
| 26 24 16 00-0167 | EA    |     |     | 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....11,616.38   |                        | 2,518.06             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 2,059.59               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                 |                      |
| 26 24 16 00-0168 | EA    |     |     | 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....14,117.61   |                        | 3,022.59             |
|                  |       |     |     | <i>For NEMA 3R Panelboard, Add</i>  | 2,059.59               |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                 |                      |
| 26 24 16 00-0169 |       |     |     | <b>Unassembled Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small><br>Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers. |                        |                      |
| 26 24 16 00-0170 |       |     |     | <b>240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small><br>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.  |                        |                      |
| 26 24 16 00-0171 |       |     |     | <b>Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>  |                        |                      |
| 26 24 16 00-0172 | EA    |     |     | 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....693.96   |                        |                      |
| 26 24 16 00-0173 | EA    |     |     | 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....802.88   |                        |                      |
| 26 24 16 00-0174 | EA    |     |     | 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....1,112.60   |                        |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                 |                      |
| 26 24 16 00-0175 | EA    |     |     | 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....1,288.11   |                        |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                 |                      |
| 26 24 16 00-0176 | EA    |     |     | 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....1,461.34   |                        |                      |
|                  |       |     |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                 |                      |



| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 24 16 00-0177        | EA  | 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard                | 1,643.00                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                    |                         |
| 26 24 16 00-0178        | EA  | 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard                | 1,787.25                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                    |                         |
| 26 24 16 00-0179        | EA  | 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard                | 1,961.32                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                    |                         |
| 26 24 16 00-0180        | EA  | 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard                | 2,203.47                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                    |                         |
| 26 24 16 00-0181        | EA  | 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard                | 2,349.47                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                    |                         |
| 26 24 16 00-0182        | EA  | 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard                | 2,576.88                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                    |                         |
| <b>26 24 16 00-0183</b> |     | <b>Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>            |                           |                         |
| 26 24 16 00-0184        | EA  | 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 1,037.90                  |                         |
| 26 24 16 00-0185        | EA  | 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 1,183.30                  |                         |
| 26 24 16 00-0186        | EA  | 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 1,910.75                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                    |                         |
| 26 24 16 00-0187        | EA  | 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 2,130.37                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                    |                         |
| 26 24 16 00-0188        | EA  | 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 2,340.51                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                    |                         |
| 26 24 16 00-0189        | EA  | 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 3,944.76                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 122.41                    |                         |
| 26 24 16 00-0190        | EA  | 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 4,209.75                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 209.06                    |                         |
| 26 24 16 00-0191        | EA  | 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard             | 4,444.08                  |                         |
|                         |     | <i>For Door-In-Door (Hinged) Trim Front, Add</i>   | 267.20                    |                         |
| <b>26 24 16 00-0192</b> |     | <b>Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>    |                           |                         |
| 26 24 16 00-0193        | EA  | 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 1,353.24                  |                         |
| 26 24 16 00-0194        | EA  | 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 1,454.63                  |                         |
| 26 24 16 00-0195        | EA  | 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 1,748.65                  |                         |
| 26 24 16 00-0196        | EA  | 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 1,921.02                  |                         |
| 26 24 16 00-0197        | EA  | 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 2,082.31                  |                         |
| 26 24 16 00-0198        | EA  | 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 2,385.79                  |                         |
| 26 24 16 00-0199        | EA  | 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 2,521.87                  |                         |
| 26 24 16 00-0200        | EA  | 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 2,688.41                  |                         |
| 26 24 16 00-0201        | EA  | 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 2,988.33                  |                         |
| 26 24 16 00-0202        | EA  | 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 3,129.21                  |                         |
| 26 24 16 00-0203        | EA  | 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard     | 3,344.80                  |                         |
| <b>26 24 16 00-0204</b> |     | <b>Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small> |                           |                         |
| 26 24 16 00-0205        | EA  | 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard  | 1,689.65                  |                         |
| 26 24 16 00-0206        | EA  | 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard  | 1,826.88                  |                         |
| 26 24 16 00-0207        | EA  | 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard  | 2,668.60                  |                         |
| 26 24 16 00-0208        | EA  | 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard  | 2,873.16                  |                         |



|                         | MINOR<br>CSI UOM DESCRIPTION |   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------------------|---|---------------------------|-------------------------|
| 26 24 16 00-0209        | EA                           | 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard | 3,071.99                  |                         |
| 26 24 16 00-0210        | EA                           | 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard | 4,660.55                  |                         |
| 26 24 16 00-0211        | EA                           | 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard | 4,918.00                  |                         |
| 26 24 16 00-0212        | EA                           | 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard | 5,150.45                  |                         |
| <b>26 24 16 00-0213</b> |                              | <b>240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>                                 |                           |                         |
|                         |                              | <i>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers</i>   |                           |                         |
| <b>26 24 16 00-0214</b> |                              | <b>Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>              |                           |                         |
| 26 24 16 00-0215        | EA                           | 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 785.73                    |                         |
| 26 24 16 00-0216        | EA                           | 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 927.46                    |                         |
| 26 24 16 00-0217        | EA                           | 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 1,050.62                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0218        | EA                           | 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 1,203.35                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0219        | EA                           | 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 1,387.52                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                    |                         |
| 26 24 16 00-0220        | EA                           | 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 1,540.01                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                    |                         |
| 26 24 16 00-0221        | EA                           | 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 1,777.89                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0222        | EA                           | 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 1,919.94                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                    |                         |
| 26 24 16 00-0223        | EA                           | 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 2,078.95                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                    |                         |
| 26 24 16 00-0224        | EA                           | 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 2,352.16                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0225        | EA                           | 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 2,587.85                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                    |                         |
| 26 24 16 00-0226        | EA                           | 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard               | 3,037.94                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                    |                         |
| <b>26 24 16 00-0227</b> |                              | <b>Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>           |                           |                         |
| 26 24 16 00-0228        | EA                           | 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 1,213.24                  |                         |
| 26 24 16 00-0229        | EA                           | 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 1,370.87                  |                         |
| 26 24 16 00-0230        | EA                           | 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 1,602.52                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0231        | EA                           | 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 2,343.08                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0232        | EA                           | 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 2,541.48                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                    |                         |
| 26 24 16 00-0233        | EA                           | 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 2,737.41                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                    |                         |
| 26 24 16 00-0234        | EA                           | 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 3,747.10                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 122.41                    |                         |
| 26 24 16 00-0235        | EA                           | 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 3,997.36                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 209.06                    |                         |
| 26 24 16 00-0236        | EA                           | 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard            | 4,203.28                  |                         |
|                         |                              | <i>For Door-In-Door (Hinged) Trim Front, Add</i>  | 267.20                    |                         |
| <b>26 24 16 00-0237</b> |                              | <b>Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>   |                           |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 24 16 00-0238 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 1,445.01                  |                         |
| 26 24 16 00-0239 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 1,579.20                  |                         |
| 26 24 16 00-0240 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 1,694.20                  |                         |
| 26 24 16 00-0241 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 1,839.40                  |                         |
| 26 24 16 00-0242 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 2,020.43                  |                         |
| 26 24 16 00-0243 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 2,160.99                  |                         |
| 26 24 16 00-0244 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 2,520.68                  |                         |
| 26 24 16 00-0245 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 2,654.57                  |                         |
| 26 24 16 00-0246 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 2,806.04                  |                         |
| 26 24 16 00-0247 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 3,137.02                  |                         |
| 26 24 16 00-0248 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 3,358.27                  |                         |
| 26 24 16 00-0249 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard .....    | 3,808.35                  |                         |
| <b>26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>         |                           |                         |
| 26 24 16 00-0251 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 1,864.99                  |                         |
| 26 24 16 00-0252 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 2,014.45                  |                         |
| 26 24 16 00-0253 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 2,241.70                  |                         |
| 26 24 16 00-0254 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 3,100.94                  |                         |
| 26 24 16 00-0255 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 3,284.27                  |                         |
| 26 24 16 00-0256 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 3,468.90                  |                         |
| 26 24 16 00-0257 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 5,121.17                  |                         |
| 26 24 16 00-0258 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 5,377.96                  |                         |
| 26 24 16 00-0259 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard ..... | 5,594.92                  |                         |
| <b>26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>  |                           |                         |
| Note: As manufactured by Square D or equal.   |                           |                         |
| <b>26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>                             |                           |                         |
| 26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 1,100.98                  |                         |
| 26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 1,216.34                  |                         |
| 26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 1,693.05                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 122.41                    |                         |
| 26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 1,894.29                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 2,069.05                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 267.20                    |                         |
| 26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 2,089.94                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 122.41                    |                         |
| 26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 2,210.65                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 2,406.41                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 267.20                    |                         |
| 26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 2,618.61                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 122.41                    |                         |
| 26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 2,807.81                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 209.06                    |                         |
| 26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....                      | 3,072.15                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add   | 267.20                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>                   |                           |                         |
| 26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 2,212.27                  |                         |
| 26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 2,281.72                  |                         |
| 26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 2,480.22                  |                         |
| 26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 2,622.51                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 122.41                    |                         |
| 26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 2,923.67                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 209.06                    |                         |
| 26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 3,794.96                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 122.41                    |                         |
| 26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 3,973.98                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 209.06                    |                         |
| 26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 4,208.81                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 267.20                    |                         |
| 26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 4,385.96                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 122.41                    |                         |
| 26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 4,649.80                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 209.06                    |                         |
| 26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....            | 4,883.68                  |                         |
| For Door-In-Door (Hinged) Trim Front, Add  | 267.20                    |                         |
| <b>26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>           |                           |                         |
| 26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 1,737.66                  |                         |
| 26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 1,853.02                  |                         |
| 26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 2,314.66                  |                         |
| 26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 2,625.15                  |                         |
| 26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 2,787.35                  |                         |
| 26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 2,808.25                  |                         |
| 26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 2,910.12                  |                         |
| 26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 3,078.87                  |                         |
| 26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 3,353.86                  |                         |
| 26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 3,527.80                  |                         |
| 26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....    | 3,759.38                  |                         |
| <b>26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>        |                           |                         |
| 26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 2,984.57                  |                         |
| 26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 3,054.02                  |                         |
| 26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 3,107.48                  |                         |
| 26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 3,244.11                  |                         |
| 26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 3,654.53                  |                         |
| 26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 4,513.26                  |                         |
| 26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 4,673.44                  |                         |
| 26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 4,881.27                  |                         |
| 26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard ..... | 5,058.42                  |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....        | 5,305.12                  |                         |
| 26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....        | 5,536.53                  |                         |
| <b>26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small><br>Note: As manufactured by Square D or equal. |                           |                         |
| <b>26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>                             |                           |                         |
| 26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 1,143.68                  |                         |
| 26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 1,259.67                  |                         |
| 26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 1,461.88                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 1,755.89                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 1,958.55                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 209.06                    |                         |
| 26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 2,132.11                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 267.20                    |                         |
| 26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 2,172.83                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 2,313.62                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 209.06                    |                         |
| 26 24 16 00-0319 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 2,507.81                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 267.20                    |                         |
| 26 24 16 00-0320 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 2,720.10                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0321 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 2,910.59                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 209.06                    |                         |
| 26 24 16 00-0322 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard .....                          | 3,176.07                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 267.20                    |                         |
| <b>26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>                          |                           |                         |
| 26 24 16 00-0324 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 2,432.03                  |                         |
| 26 24 16 00-0325 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 2,502.11                  |                         |
| 26 24 16 00-0326 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 2,714.52                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0327 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 2,782.33                  |                         |
| 26 24 16 00-0328 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 2,925.11                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0329 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 3,225.60                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 209.06                    |                         |
| 26 24 16 00-0330 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 4,149.17                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0331 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 4,330.33                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 209.06                    |                         |
| 26 24 16 00-0332 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 4,562.67                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 267.20                    |                         |
| 26 24 16 00-0333 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 4,810.38                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 122.41                    |                         |
| 26 24 16 00-0334 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 5,076.57                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 209.06                    |                         |
| 26 24 16 00-0335 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard .....                       | 5,310.49                  |                         |
| <i>For Door-In-Door (Hinged) Trim Front, Add</i> .....  | 267.20                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 24 16 00-0336</b> Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>  |                           |                         |
| 26 24 16 00-0337 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 1,780.35                  |                         |
| 26 24 16 00-0338 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 1,896.34                  |                         |
| 26 24 16 00-0339 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 2,089.14                  |                         |
| 26 24 16 00-0340 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 2,377.50                  |                         |
| 26 24 16 00-0341 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 2,689.41                  |                         |
| 26 24 16 00-0342 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 2,850.41                  |                         |
| 26 24 16 00-0343 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 2,893.02                  |                         |
| 26 24 16 00-0344 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 3,013.09                  |                         |
| 26 24 16 00-0345 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 3,180.28                  |                         |
| 26 24 16 00-0346 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 3,455.35                  |                         |
| 26 24 16 00-0347 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 3,630.14                  |                         |
| 26 24 16 00-0348 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard .....  | 3,861.72                  |                         |
| <b>26 24 16 00-0349</b> Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>   |                           |                         |
| 26 24 16 00-0350 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 3,053.64                  |                         |
| 26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 3,123.72                  |                         |
| 26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 3,445.37                  |                         |
| 26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 3,409.59                  |                         |
| 26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 3,546.71                  |                         |
| 26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 3,956.46                  |                         |
| 26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 4,867.47                  |                         |
| 26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 5,029.79                  |                         |
| 26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 5,235.14                  |                         |
| 26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 5,482.84                  |                         |
| 26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 5,731.46                  |                         |
| 26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard .....   | 5,962.24                  |                         |
| <b>26 24 16 00-0362</b> 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>  |                           |                         |
| Note: Square D I-Line or equal.   |                           |                         |
| <b>26 24 16 00-0363</b> Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>   |                           |                         |
| 26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... | 2,089.49                  | 457.50                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 274.50                    |                         |
| 26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....  | 2,404.17                  | 457.36                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 274.43                    |                         |
| 26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... | 2,641.18                  | 457.36                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 274.43                    |                         |
| 26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... | 3,137.73                  | 751.11                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 450.67                    |                         |
| 26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... | 3,321.17                  | 751.11                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 450.67                    |                         |
| 26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... | 3,522.46                  | 751.11                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 450.67                    |                         |
| 26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard ..... | 3,907.52                  | 998.48                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 599.06                    |                         |



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                   | 4,085.70                  | 1,001.43                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 600.89                    |                         |
| 26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                   | 4,155.89                  | 998.48                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 599.06                    |                         |
| 26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                   | 4,737.86                  | 998.48                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 599.06                    |                         |
| 26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                 | 6,284.40                  | 1,502.21                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 901.34                    |                         |
| 26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                 | 6,680.49                  | 1,502.21                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 901.34                    |                         |
| 26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                 | 7,004.34                  | 1,502.21                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 901.34                    |                         |
| 26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                 | 7,399.63                  | 1,502.21                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 901.34                    |                         |
| <b>26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0362)</small>   |                           |                         |
| 26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 3,810.88                  | 467.20                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 280.30                    |                         |
| 26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 4,957.44                  | 529.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 317.95                    |                         |
| 26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 5,186.33                  | 529.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 317.95                    |                         |
| 26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 5,860.02                  | 529.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 317.95                    |                         |
| 26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 7,739.60                  | 868.61                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 521.20                    |                         |
| 26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 8,119.21                  | 871.00                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 522.58                    |                         |
| 26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 8,429.51                  | 868.61                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 521.20                    |                         |
| 26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 9,819.95                  | 1,161.24                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 696.77                    |                         |
| 26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 10,265.47                 | 1,157.16                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 694.31                    |                         |
| 26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....                | 10,711.89                 | 1,157.16                |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 694.31                    |                         |
| <b>26 24 16 00-0389 Residential Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small><br>See CSI section 26 28 16 13-0001 for circuit breakers.   |                           |                         |
| <b>26 24 16 00-0390 Residential Type Unassembled Load Center</b> <small>(26 24 16 00-0389)</small><br>Note: Interior box and cover, includes ground bar kit.   |                           |                         |
| <b>26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt</b> <small>(26 24 16 00-0390)</small>   |                           |                         |
| 26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....   | 193.52                    | 76.91                   |
| 26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....   | 674.28                    | 307.65                  |
| 26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....  | 1,006.03                  | 439.16                  |
| 26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....   | 2,142.43                  | 923.08                  |
| 26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....   | 2,338.12                  | 999.84                  |
| <b>26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC</b> <small>(26 24 16 00-0390)</small><br>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.        |                           |                         |
| 26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....  | 258.11                    | 84.60                   |
| 26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard..... | 431.99                    | 92.29                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 24 16 00-0400</b> Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>   |                           |                         |
| 26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....  | 261.75                    | 84.60                   |
| 26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....  | 290.89                    | 92.29                   |
| 26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....   | 1,078.80                  | 439.16                  |
| 26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....  | 2,448.85                  | 999.84                  |
| <b>26 24 16 00-0405</b> Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>  |                           |                         |
| Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.  |                           |                         |
| 26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....       | 313.47                    | 84.60                   |
| 26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....     | 2,345.06                  | 923.08                  |
| <b>26 24 16 00-0408</b> Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>  |                           |                         |
| 26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....   | 2,487.27                  | 923.08                  |
| 26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....   | 2,698.78                  | 999.84                  |
| 26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....   | 8,477.79                  | 1,538.21                |
| <b>26 24 16 00-0412</b> Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>  |                           |                         |
| Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.   |                           |                         |
| 26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....            | 3,406.01                  | 923.08                  |
| 26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....            | 3,711.63                  | 999.84                  |
| 26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....            | 9,250.84                  | 1,538.21                |
| <b>26 24 16 00-0416</b> Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>   |                           |                         |
| 26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....  | 2,590.09                  | 923.08                  |
| 26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....  | 2,874.36                  | 999.84                  |
| <b>26 24 16 00-0419</b> Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>   |                           |                         |
| Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.  |                           |                         |
| 26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard ..... | 3,576.53                  | 923.08                  |
| 26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard ..... | 3,730.14                  | 999.84                  |
| <b>26 24 16 00-0422</b> Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>  |                           |                         |
| <b>26 24 16 00-0423</b> Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small>   |                           |                         |
| Note: Includes 1 pole plug-in breaker.  |                           |                         |
| 26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....  | 1,006.51                  | 439.16                  |
| 26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....   | 1,214.26                  | 512.99                  |
| 26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....  | 1,023.91                  | 439.16                  |
| 26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....   | 1,219.00                  | 512.99                  |
| 26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....   | 1,737.70                  | 683.73                  |
| 26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....  | 2,057.31                  | 820.64                  |
| 26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....  | 2,356.90                  | 946.77                  |
| 26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....  | 2,587.69                  | 1,024.91                |
| 26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....  | 3,875.26                  | 1,538.21                |
| 26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....   | 1,799.39                  | 683.73                  |
| 26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....   | 2,115.84                  | 820.64                  |
| 26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....   | 2,415.43                  | 946.77                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....    | 2,643.05                  | 1,024.91                |
| 26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....    | 4,057.17                  | 1,538.21                |
| 26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....       | 4,675.82                  | 1,709.11                |
| 26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....    | 4,865.64                  | 1,709.11                |
| <b>26 24 16 00-0440 Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt</b> <small>(26 24 16 00-0422)</small><br>Note: Includes 1 pole plug-in breaker.                     |                           |                         |
| 26 24 16 00-0441 EA 125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 1,302.84                  | 512.99                  |
| 26 24 16 00-0442 EA 125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 1,944.74                  | 769.11                  |
| 26 24 16 00-0443 EA 125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 1,355.04                  | 512.99                  |
| 26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 1,992.20                  | 769.11                  |
| 26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 2,447.06                  | 946.77                  |
| 26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 2,667.88                  | 1,025.53                |
| 26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 3,252.85                  | 1,231.04                |
| 26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 3,938.53                  | 1,538.21                |
| 26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 2,502.43                  | 946.77                  |
| 26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 2,730.05                  | 1,024.91                |
| 26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 3,464.83                  | 1,230.11                |
| 26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 4,152.08                  | 1,538.21                |
| 26 24 16 00-0453 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....                 | 4,723.27                  | 1,709.11                |
| 26 24 16 00-0454 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....             | 4,913.09                  | 1,709.11                |
| <b>26 24 16 00-0455 Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase</b> <small>(26 24 16 00-0422)</small><br>Note: Includes 1 pole plug-in breaker.        |                           |                         |
| 26 24 16 00-0456 EA 125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 1,296.52                  | 512.99                  |
| 26 24 16 00-0457 EA 125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 1,922.60                  | 769.11                  |
| 26 24 16 00-0458 EA 200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 2,187.03                  | 820.64                  |
| 26 24 16 00-0459 EA 200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 2,511.27                  | 947.23                  |
| 26 24 16 00-0460 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 2,754.88                  | 1,025.53                |
| 26 24 16 00-0461 EA 200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 3,652.56                  | 1,367.48                |
| 26 24 16 00-0462 EA 200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers ..... | 2,202.84                  | 820.64                  |
| 26 24 16 00-0463 EA 200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers ..... | 2,541.98                  | 946.77                  |
| 26 24 16 00-0464 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers ..... | 2,761.69                  | 1,024.91                |
| 26 24 16 00-0465 EA 200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers ..... | 3,565.56                  | 1,367.48                |
| 26 24 16 00-0466 EA 400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....     | 6,305.11                  | 1,709.11                |
| 26 24 16 00-0467 EA 400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers ..... | 6,621.48                  | 1,709.11                |
| <b>26 24 16 00-0468 Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt</b> <small>(26 24 16 00-0422)</small><br>Note: Includes 1 pole plug-in breaker.                 |                           |                         |
| 26 24 16 00-0469 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....              | 3,197.80                  | 1,025.53                |
| 26 24 16 00-0470 EA 200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....              | 4,444.72                  | 1,538.21                |
| 26 24 16 00-0471 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....          | 3,291.61                  | 1,024.91                |
| 26 24 16 00-0472 EA 200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....          | 4,539.63                  | 1,538.21                |
| <b>26 24 16 00-0473 Panel Mounted Accessories And Fuseholders</b> <small>(26 24 16 00-0001)</small>  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 24 16 00-0474 Midget Finger-Safe Fuse Holders</b> <small>(26 24 16 00-0473)</small>  |                           |                         |
| <small>Note: 30 Amp capacity. Excludes fuse.</small>   |                           |                         |
| 26 24 16 00-0475 EA 1 Pole Midget Finger-Safe Fuse Holder.....   | 90.72                     | 27.69                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.46</i>              |                         |
| 26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder.....  | 104.55                    | 27.69                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.46</i>              |                         |
| 26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder.....   | 144.87                    | 41.53                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>27.69</i>              |                         |
| 26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder.....   | 180.96                    | 41.53                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>27.69</i>              |                         |
| 26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder.....   | 210.20                    | 55.38                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>36.92</i>              |                         |
| 26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder.....   | 258.14                    | 55.38                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>36.92</i>              |                         |
| 26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....   | 298.24                    | 55.38                   |
| <small>Note: With indicators.</small>  |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>36.92</i>              |                         |
| 26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder.....   | 245.08                    | 55.38                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>36.92</i>              |                         |
| 26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder.....   | 264.50                    | 69.22                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>46.15</i>              |                         |
| 26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder.....  | 317.14                    | 69.22                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>46.15</i>              |                         |
| 26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder.....   | 104.59                    | 27.69                   |
| <small>Note: With indicator.</small>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.46</i>              |                         |
| 26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder.....   | 111.94                    | 27.69                   |
| <small>Note: With indicator.</small>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.46</i>              |                         |
| 26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder.....   | 105.95                    | 27.69                   |
| <small>Note: With indicator.</small>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>18.46</i>              |                         |
| <b>26 24 16 00-0488 Removal And Reinstallation Of Panelboards</b> <small>(26 24 16 00-0001)</small>  |                           |                         |
| <small>Note: Includes storage, cleaning and supply materials.</small>  |                           |                         |
| 26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers.....   | 1,929.15                  |                         |
| <small>Note: Includes removal and reinstallation of main wiring to panelboard.</small>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>576.83</i>             |                         |
| 26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage.....   | 101.82                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>29.99</i>              |                         |
| 26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening.....  | 6.65                      |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>1.44</i>               |                         |
| <b>26 24 19 Motor-Control Centers</b> <small>(26 24)</small>   |                           |                         |
| <b>26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers</b> <small>(26 24 19)</small>   |                           |                         |
| <small>Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.</small> |                           |                         |
| <b>26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>   |                           |                         |
| <small>Note: 1-Speed non-reversing.</small>  |                           |                         |
| 26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit.....  | 2,466.09                  | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>84.33</i>              |                         |
| 26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit.....   | 2,912.12                  | 147.58                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>88.55</i>              |                         |
| 26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit.....   | 4,304.36                  | 154.61                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>92.76</i>              |                         |
| 26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....   | 7,759.20                  | 182.72                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>109.63</i>             |                         |
| 26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....  | 15,556.60                 | 210.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>126.50</i>             |                         |
| 26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....  | 26,139.84                 | 281.10                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>168.66</i>             |                         |
| <b>26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>   |                           |                         |
| <small>Note: 1-Speed non-reversing.</small>  |                           |                         |
| 26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit.....   | 2,466.09                  | 140.55                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>84.33</i>              |                         |
| 26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit.....   | 2,912.12                  | 147.58                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>88.55</i>              |                         |
| 26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....   | 4,304.36                  | 154.61                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>92.76</i>              |                         |
| 26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....  | 7,759.20                  | 182.72                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>109.63</i>             |                         |
| 26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....  | 15,556.60                 | 210.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>126.50</i>             |                         |
| 26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit.....  | 26,139.84                 | 281.10                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | <i>168.66</i>             |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 24 19 00-0016</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small><br>Note: 1-Speed reversing.             |                           |                         |
| 26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit.....   | 3,544.87                  | 140.55                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 84.33                     |                         |
| 26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit.....  | 4,706.28                  | 147.58                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 88.55                     |                         |
| 26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit.....  | 6,720.19                  | 154.61                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.76                     |                         |
| 26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....  | 11,717.78                 | 182.72                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 109.63                    |                         |
| 26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....   | 22,996.07                 | 210.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 126.50                    |                         |
| 26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....   | 39,592.61                 | 281.10                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 168.66                    |                         |
| <b>26 24 19 00-0023</b> <b>480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small><br>Note: 1-Speed reversing.             |                           |                         |
| 26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit.....  | 3,544.87                  | 140.55                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 84.33                     |                         |
| 26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit.....  | 4,706.28                  | 147.58                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 88.55                     |                         |
| 26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....  | 6,720.19                  | 154.61                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.76                     |                         |
| 26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....   | 11,717.78                 | 182.72                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 109.63                    |                         |
| 26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....   | 22,996.07                 | 210.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 126.50                    |                         |
| 26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit.....   | 39,592.61                 | 281.10                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 168.66                    |                         |
| <b>26 24 19 00-0030</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small><br>Note: 2-Speed non-reversing, 2 wind. |                           |                         |
| 26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....                                 | 4,337.48                  | 224.88                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 134.93                    |                         |
| 26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....                                    | 5,933.49                  | 238.94                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 143.36                    |                         |
| 26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....                                    | 8,690.53                  | 253.00                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 151.79                    |                         |
| 26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....                                    | 15,455.21                 | 288.13                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 172.88                    |                         |
| 26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....                                   | 25,539.21                 | 337.33                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 202.40                    |                         |
| <b>26 24 19 00-0036</b> <b>480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small><br>Note: 2-Speed non-reversing, 2 wind. |                           |                         |
| 26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....                                    | 4,337.48                  | 224.88                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 134.93                    |                         |
| 26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit.....                                    | 5,933.49                  | 238.94                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 143.36                    |                         |
| 26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....                                    | 8,690.53                  | 253.00                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 151.79                    |                         |
| 26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....                                   | 15,455.21                 | 288.13                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 172.88                    |                         |
| 26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit.....                                   | 25,539.21                 | 337.33                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 202.40                    |                         |
| <b>26 24 19 00-0042</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small><br>Note: 2-Speed non-reversing, 2 wind. |                           |                         |
| 26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....                                 | 4,955.06                  | 140.55                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 84.33                     |                         |
| 26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....                                    | 7,346.09                  | 147.58                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 88.55                     |                         |
| 26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....                                    | 10,034.24                 | 154.61                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.76                     |                         |
| 26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....                                    | 18,800.71                 | 182.72                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 109.63                    |                         |
| 26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....                                   | 32,524.55                 | 210.82                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 126.50                    |                         |
| <b>26 24 19 00-0048</b> <b>480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small><br>Note: 2-Speed non-reversing, 1 wind. |                           |                         |
| 26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....                                    | 4,955.06                  | 140.55                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 84.33                     |                         |
| 26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit.....                                    | 7,346.09                  | 147.58                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 88.55                     |                         |
| 26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....                                    | 10,034.24                 | 154.61                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.76                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 18,800.71<br>109.63       | 182.72                  |
| 26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 32,524.55<br>126.50       | 210.82                  |
| <b>26 24 19 00-0054 230 Volt Combination With Molded Case Circuit</b> <sub>(26 24 19 00-0001)</sub><br>Note: Reducing volt, auto-transformer.  |                           |                         |
| 26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit.....  | 7,300.38                  | 147.58                  |
| 26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit.....  | 11,147.65                 | 161.63                  |
| 26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....  | 18,748.14                 | 182.72                  |
| 26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....   | 28,968.23                 | 210.82                  |
| 26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....   | 49,521.06                 | 281.10                  |
| <b>26 24 19 00-0060 480 Volt Combination With Molded Case Circuit</b> <sub>(26 24 19 00-0001)</sub><br>Note: Reducing volt, auto-transformer.  |                           |                         |
| 26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit.....  | 7,300.38                  | 147.58                  |
| 26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....  | 11,147.65                 | 161.63                  |
| 26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....   | 18,748.14                 | 182.72                  |
| 26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....   | 28,968.23                 | 210.82                  |
| 26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit.....   | 49,521.06                 | 281.10                  |
| <b>26 24 19 00-0066 230 Volt Combination With Molded Case Circuit</b> <sub>(26 24 19 00-0001)</sub><br>Note: Reducing volt, part winding.  |                           |                         |
| 26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 5,043.71<br>134.93        | 224.88                  |
| 26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 6,501.31<br>156.01        | 260.02                  |
| 26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 11,352.64<br>172.88       | 288.13                  |
| 26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 19,284.31<br>210.83       | 351.37                  |
| 26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 26,477.19<br>269.87       | 449.76                  |
| <b>26 24 19 00-0072 480 Volt Combination With Molded Case Circuit</b> <sub>(26 24 19 00-0001)</sub><br>Note: Reducing volt, part winding.  |                           |                         |
| 26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 5,043.71<br>134.93        | 224.88                  |
| 26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 6,501.31<br>156.01        | 260.02                  |
| 26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                          | 11,352.64<br>172.88       | 288.13                  |
| 26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 19,284.31<br>210.83       | 351.37                  |
| 26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                         | 26,477.19<br>269.87       | 449.76                  |
| <b>26 24 19 00-0078 230 Volt Combination With Molded Case Circuit</b> <sub>(26 24 19 00-0001)</sub><br>Note: Reducing volt, energy saver.  |                           |                         |
| 26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 20,492.02<br>109.63       | 182.72                  |
| 26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 21,753.40<br>134.93       | 224.88                  |
| 26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 24,026.94<br>156.01       | 260.02                  |
| 26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 36,329.17<br>172.88       | 288.13                  |
| 26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 49,526.76<br>210.83       | 351.37                  |
| 26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 67,198.90<br>269.87       | 449.76                  |
| <b>26 24 19 00-0085 480 Volt Combination With Molded Case Circuit</b> <sub>(26 24 19 00-0001)</sub><br>Note: Reducing volt, energy saver.  |                           |                         |
| 26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 20,492.02<br>109.63       | 182.72                  |
| 26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case<br>Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 21,753.40<br>134.93       | 224.88                  |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case<br>Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 24,026.94<br>156.01       | 260.02                  |
| 26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case<br>Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 36,329.17<br>172.88       | 288.13                  |
| 26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case<br>Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 49,526.76<br>210.83       | 351.37                  |
| 26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case<br>Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 67,198.90<br>269.87       | 449.76                  |
| <b>26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers (26 24 19)</b><br>Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally. |                           |                         |
| <b>26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)</b><br>Note: Full volt, 1-speed non-reversing.  |                           |                         |
| 26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 3,277.46<br>84.33         | 140.55                  |
| 26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,723.49<br>88.55         | 147.58                  |
| 26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5,723.69<br>92.76         | 154.61                  |
| 26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10,499.58<br>109.63       | 182.72                  |
| 26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18,742.66<br>126.50       | 210.82                  |
| 26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 30,521.25<br>168.66       | 281.10                  |
| <b>26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)</b><br>Note: Full volt, 1-speed non-reversing.  |                           |                         |
| 26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,277.46<br>84.33         | 140.55                  |
| 26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,723.49<br>88.55         | 147.58                  |
| 26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5,723.69<br>92.76         | 154.61                  |
| 26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 10,499.58<br>109.63       | 182.72                  |
| 26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18,742.66<br>126.50       | 210.82                  |
| 26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 30,521.25<br>168.66       | 281.10                  |
| <b>26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)</b><br>Note: Full volt, 1-speed reversing.  |                           |                         |
| 26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 4,349.39<br>84.33         | 140.55                  |
| 26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 5,501.65<br>88.55         | 147.58                  |
| 26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 8,107.52<br>92.76         | 154.61                  |
| 26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 14,421.59<br>109.63       | 182.72                  |
| 26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 26,118.14<br>126.50       | 210.82                  |
| <b>26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)</b><br>Note: Full volt, 1-speed reversing.  |                           |                         |
| 26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 4,349.39<br>84.33         | 140.55                  |
| 26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 5,501.65<br>88.55         | 147.58                  |
| 26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 8,107.52<br>92.76         | 154.61                  |
| 26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 14,421.59<br>109.63       | 182.72                  |
| 26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 26,118.14<br>126.50       | 210.82                  |
| <b>26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)</b><br>Note: Full volt, 2-speed non-reversing, 2 wind.  |                           |                         |
| 26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting<br>Circuit .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 5,128.28<br>134.93        | 224.88                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit    | 6,712.86                  | 238.94                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 143.36                    |                         |
| 26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit    | 10,055.00                 | 253.00                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 151.79                    |                         |
| 26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit    | 18,127.02                 | 288.13                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 172.88                    |                         |
| 26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit   | 28,636.13                 | 337.33                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 202.40                    |                         |
| <b>26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>                      |                           |                         |
| Note: Full volt, 2-speed non-reversing, 2 wind.  |                           |                         |
| 26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit    | 5,128.28                  | 224.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 134.93                    |                         |
| 26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit    | 6,712.86                  | 238.94                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 143.36                    |                         |
| 26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit    | 10,055.00                 | 253.00                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 151.79                    |                         |
| 26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit   | 18,127.02                 | 288.13                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 172.88                    |                         |
| 26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit   | 28,636.13                 | 337.33                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 202.40                    |                         |
| <b>26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>                      |                           |                         |
| Note: Full volt, 2-speed non-reversing, 1 wind.  |                           |                         |
| 26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit | 5,886.42                  | 210.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 126.50                    |                         |
| 26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit    | 8,266.34                  | 224.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 134.93                    |                         |
| 26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit    | 11,560.52                 | 238.94                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 143.36                    |                         |
| 26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit    | 21,623.23                 | 274.08                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 164.44                    |                         |
| 26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit   | 35,784.67                 | 323.27                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 193.97                    |                         |
| <b>26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>                      |                           |                         |
| Note: Full volt, 2-speed non-reversing, 1 wind.  |                           |                         |
| 26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit    | 5,886.42                  | 210.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 126.50                    |                         |
| 26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit    | 8,266.34                  | 224.88                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 134.93                    |                         |
| 26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit    | 11,560.52                 | 238.94                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 143.36                    |                         |
| 26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit   | 21,623.23                 | 274.08                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 164.44                    |                         |
| 26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit   | 35,784.67                 | 323.27                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 193.97                    |                         |
| <b>26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>                      |                           |                         |
| Note: Reduced volt, auto-transformer.  |                           |                         |
| 26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit                     | 8,068.33                  | 147.58                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 88.55                     |                         |
| 26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit                     | 12,957.81                 | 161.63                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 96.98                     |                         |
| 26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit                     | 21,858.78                 | 182.72                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 109.63                    |                         |
| 26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit                    | 33,084.51                 | 210.82                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 126.50                    |                         |
| 26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit                    | 54,405.29                 | 281.10                  |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 168.66                    |                         |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 24 19 00-0149 |     | <b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small><br>Note: Reduced volt, auto-transformer. |                           |                         |
| 26 24 19 00-0150 | EA  | 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit .....                                      | 8,068.33                  | 147.58                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 88.55                     |                         |
| 26 24 19 00-0151 | EA  | 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit .....                                      | 12,957.81                 | 161.63                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 96.98                     |                         |
| 26 24 19 00-0152 | EA  | 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit .....                                     | 21,858.78                 | 182.72                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 109.63                    |                         |
| 26 24 19 00-0153 | EA  | 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit .....                                     | 33,084.51                 | 210.82                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 126.50                    |                         |
| 26 24 19 00-0154 | EA  | 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit .....                                     | 54,405.29                 | 281.10                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 168.66                    |                         |
| 26 24 19 00-0155 |     | <b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small><br>Note: Reduced volt, part winding.     |                           |                         |
| 26 24 19 00-0156 | EA  | 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit .....                                 | 5,834.51                  | 224.88                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 134.93                    |                         |
| 26 24 19 00-0157 | EA  | 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit .....                                 | 7,276.12                  | 260.02                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 156.01                    |                         |
| 26 24 19 00-0158 | EA  | 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit .....                                 | 12,707.97                 | 288.13                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 172.88                    |                         |
| 26 24 19 00-0159 | EA  | 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit .....                                 | 22,433.80                 | 351.37                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 210.83                    |                         |
| 26 24 19 00-0160 | EA  | 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit .....                                | 33,064.16                 | 449.76                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 269.87                    |                         |
| 26 24 19 00-0161 |     | <b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small><br>Note: Reduced volt, part winding.     |                           |                         |
| 26 24 19 00-0162 | EA  | 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit .....                                 | 5,834.51                  | 224.88                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 134.93                    |                         |
| 26 24 19 00-0163 | EA  | 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit .....                                 | 7,276.12                  | 260.02                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 156.01                    |                         |
| 26 24 19 00-0164 | EA  | 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit .....                                 | 12,707.97                 | 288.13                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 172.88                    |                         |
| 26 24 19 00-0165 | EA  | 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit .....                                | 22,433.80                 | 351.37                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 210.83                    |                         |
| 26 24 19 00-0166 | EA  | 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit .....                                | 33,064.16                 | 449.76                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 269.87                    |                         |
| 26 24 19 00-0167 |     | <b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small><br>Note: Reduced volt, energy saving     |                           |                         |
| 26 24 19 00-0168 | EA  | 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current<br>Limiting Circuit .....          | 21,147.97                 | 182.72                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 109.63                    |                         |
| 26 24 19 00-0169 | EA  | 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current<br>Limiting Circuit .....           | 22,402.49                 | 224.88                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 134.93                    |                         |
| 26 24 19 00-0170 | EA  | 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current<br>Limiting Circuit .....           | 24,653.18                 | 260.02                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 156.01                    |                         |
| 26 24 19 00-0171 | EA  | 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current<br>Limiting Circuit .....           | 36,847.99                 | 288.13                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 172.88                    |                         |
| 26 24 19 00-0172 | EA  | 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current<br>Limiting Circuit .....          | 49,929.02                 | 351.37                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 210.83                    |                         |
| 26 24 19 00-0173 | EA  | 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current<br>Limiting Circuit .....          | 69,957.57                 | 449.76                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 269.87                    |                         |
| 26 24 19 00-0174 |     | <b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small><br>Note: Reduced volt, energy saving     |                           |                         |
| 26 24 19 00-0175 | EA  | 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current<br>Limiting Circuit .....           | 21,148.03                 | 182.72                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 109.65                    |                         |
| 26 24 19 00-0176 | EA  | 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current<br>Limiting Circuit .....           | 22,402.49                 | 224.88                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 134.93                    |                         |
| 26 24 19 00-0177 | EA  | 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current<br>Limiting Circuit .....           | 24,653.18                 | 260.02                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 156.01                    |                         |
| 26 24 19 00-0178 | EA  | 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current<br>Limiting Circuit .....          | 36,847.99                 | 288.13                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 172.88                    |                         |
| 26 24 19 00-0179 | EA  | 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current<br>Limiting Circuit .....          | 49,929.02                 | 351.37                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 210.83                    |                         |
| 26 24 19 00-0180 | EA  | 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current<br>Limiting Circuit .....          | 69,957.57                 | 449.76                  |
|                  |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 269.87                    |                         |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |                  |
|------------------|---|------------------|
| 26 24 19 00-0181 | <b>Combination Starters With Fusible Switch</b> <small>(26 24 19)</small><br>Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally. |                  |
| 26 24 19 00-0182 | <b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small><br>Note: 1-Speed non-reversing.   |                  |
| 26 24 19 00-0183 | EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....  | 2,200.97 140.55  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>84.33</i>     |
| 26 24 19 00-0184 | EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....   | 3,014.97 147.58  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>88.55</i>     |
| 26 24 19 00-0185 | EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....   | 5,040.31 154.61  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>92.76</i>     |
| 26 24 19 00-0186 | EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....   | 8,849.41 182.72  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>109.63</i>    |
| 26 24 19 00-0187 | EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....  | 14,326.97 210.82 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>126.50</i>    |
| 26 24 19 00-0188 | EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....  | 25,511.31 281.10 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>168.66</i>    |
| 26 24 19 00-0189 | <b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small><br>Note: 1-Speed non-reversing.   |                  |
| 26 24 19 00-0190 | EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....   | 2,200.97 140.55  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>84.33</i>     |
| 26 24 19 00-0191 | EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....   | 3,014.97 147.58  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>88.55</i>     |
| 26 24 19 00-0192 | EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....   | 5,040.31 154.61  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>92.76</i>     |
| 26 24 19 00-0193 | EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....  | 8,849.41 182.72  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>109.63</i>    |
| 26 24 19 00-0194 | EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....  | 14,326.97 210.82 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>126.50</i>    |
| 26 24 19 00-0195 | EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....  | 25,511.31 281.10 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>168.66</i>    |
| 26 24 19 00-0196 | <b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small><br>Note: 1-Speed reversing.   |                  |
| 26 24 19 00-0197 | EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....  | 3,515.16 140.55  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>84.33</i>     |
| 26 24 19 00-0198 | EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....   | 5,209.10 147.58  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>88.55</i>     |
| 26 24 19 00-0199 | EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....   | 8,297.22 154.61  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>92.76</i>     |
| 26 24 19 00-0200 | EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....   | 13,491.37 182.72 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>109.63</i>    |
| 26 24 19 00-0201 | EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....  | 20,724.23 210.82 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>126.50</i>    |
| 26 24 19 00-0202 | EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....  | 35,192.92 281.10 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>168.66</i>    |
| 26 24 19 00-0203 | <b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small><br>Note: 1-Speed reversing.   |                  |
| 26 24 19 00-0204 | EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....   | 3,515.16 140.55  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>84.33</i>     |
| 26 24 19 00-0205 | EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....   | 5,209.10 147.58  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>88.55</i>     |
| 26 24 19 00-0206 | EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....   | 8,297.22 154.61  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>92.76</i>     |
| 26 24 19 00-0207 | EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....  | 13,491.37 182.72 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>109.63</i>    |
| 26 24 19 00-0208 | EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....  | 20,724.23 210.82 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>126.50</i>    |
| 26 24 19 00-0209 | EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....  | 35,192.92 281.10 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>168.66</i>    |
| 26 24 19 00-0210 | <b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small><br>Note: 2-Speed non-reversing, 2 wind.   |                  |
| 26 24 19 00-0211 | EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....   | 4,145.49 224.88  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>134.93</i>    |
| 26 24 19 00-0212 | EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....   | 5,668.36 238.94  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>143.36</i>    |
| 26 24 19 00-0213 | EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....   | 8,861.94 253.00  |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>151.79</i>    |
| 26 24 19 00-0214 | EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....   | 15,752.33 288.13 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>172.88</i>    |
| 26 24 19 00-0215 | EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....  | 25,038.67 337.33 |
|                  | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | <i>202.40</i>    |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 24 19 00-0216 |     |     | <b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181)<br>Note: 2-Speed non-reversing, 2 wind. |                        |                      |
| 26 24 19 00-0217 | EA  |     | 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... 4,145.49     | 224.88                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>134.93</i>          |                      |
| 26 24 19 00-0218 | EA  |     | 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... 5,668.36     | 238.94                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>143.36</i>          |                      |
| 26 24 19 00-0219 | EA  |     | 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... 8,861.94     | 253.00                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>151.79</i>          |                      |
| 26 24 19 00-0220 | EA  |     | 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... 15,752.33   | 288.13                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>172.88</i>          |                      |
| 26 24 19 00-0221 | EA  |     | 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... 25,038.67   | 337.33                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>202.40</i>          |                      |
| 26 24 19 00-0222 |     |     | <b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181)<br>Note: 2-Speed non-reversing, 1 wind. |                        |                      |
| 26 24 19 00-0223 | EA  |     | 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 4,676.22  | 140.55                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>84.33</i>           |                      |
| 26 24 19 00-0224 | EA  |     | 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 7,099.25     | 147.58                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>88.55</i>           |                      |
| 26 24 19 00-0225 | EA  |     | 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 10,194.23    | 154.61                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>92.76</i>           |                      |
| 26 24 19 00-0226 | EA  |     | 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 20,487.45    | 182.72                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>109.63</i>          |                      |
| 26 24 19 00-0227 |     |     | <b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181)<br>Note: 2-Speed non-reversing, 1 wind. |                        |                      |
| 26 24 19 00-0228 | EA  |     | 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 4,676.22     | 140.55                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>84.33</i>           |                      |
| 26 24 19 00-0229 | EA  |     | 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 7,099.25     | 147.58                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>88.55</i>           |                      |
| 26 24 19 00-0230 | EA  |     | 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 10,194.23    | 154.61                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>92.76</i>           |                      |
| 26 24 19 00-0231 | EA  |     | 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... 20,487.45   | 182.72                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>109.63</i>          |                      |
| 26 24 19 00-0232 |     |     | <b>230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181)<br>Note: Auto-transformer.           |                        |                      |
| 26 24 19 00-0233 | EA  |     | 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 7,051.26                       | 147.58                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>88.55</i>           |                      |
| 26 24 19 00-0234 | EA  |     | 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 12,402.42                      | 161.63                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>96.98</i>           |                      |
| 26 24 19 00-0235 | EA  |     | 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 20,622.29                      | 182.72                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>109.63</i>          |                      |
| 26 24 19 00-0236 | EA  |     | 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 27,519.19                     | 210.82                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>126.50</i>          |                      |
| 26 24 19 00-0237 | EA  |     | 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 46,197.86                     | 281.10                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>168.66</i>          |                      |
| 26 24 19 00-0238 |     |     | <b>480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181)<br>Note: Auto-transformer.           |                        |                      |
| 26 24 19 00-0239 | EA  |     | 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 7,051.26                       | 147.58                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>88.55</i>           |                      |
| 26 24 19 00-0240 | EA  |     | 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 12,402.42                      | 161.63                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>96.98</i>           |                      |
| 26 24 19 00-0241 | EA  |     | 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 20,622.29                     | 182.72                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>109.63</i>          |                      |
| 26 24 19 00-0242 | EA  |     | 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 27,519.19                     | 210.82                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>126.50</i>          |                      |
| 26 24 19 00-0243 | EA  |     | 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... 46,197.86                     | 281.10                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>168.66</i>          |                      |
| 26 24 19 00-0244 |     |     | <b>230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181)<br>Note: Part winding.               |                        |                      |
| 26 24 19 00-0245 | EA  |     | 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... 5,073.43                  | 224.88                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>134.93</i>          |                      |
| 26 24 19 00-0246 | EA  |     | 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... 6,697.87                  | 260.02                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>156.01</i>          |                      |
| 26 24 19 00-0247 | EA  |     | 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... 10,602.97                 | 288.13                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>172.88</i>          |                      |
| 26 24 19 00-0248 | EA  |     | 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... 21,028.19                 | 351.37                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>210.83</i>          |                      |
| 26 24 19 00-0249 |     |     | <b>480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181)<br>Note: Part winding.               |                        |                      |
| 26 24 19 00-0250 | EA  |     | 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... 5,073.43                  | 224.88                 |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                  | <i>134.93</i>          |                      |



|  | MINOR<br>CSI UOM DESCRIPTION   |   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|--|---|---------------------------|-------------------------|
| 26 24 19 00-0251   | EA   | 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6,697.87<br>156.01        | 260.02                  |
| 26 24 19 00-0252   | EA   | 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10,602.97<br>172.88       | 288.13                  |
| 26 24 19 00-0253   | EA   | 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 21,028.19<br>210.83       | 351.37                  |
| <b>26 24 19 00-0254</b>  | <b>230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small></b> |   |                           |                         |
| Note: Energy saver.  |  |   |                           |                         |
| 26 24 19 00-0255   | EA   | 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....  | 20,489.73<br>109.63       | 182.72                  |
| 26 24 19 00-0256   | EA   | 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....   | 21,753.40<br>134.93       | 224.88                  |
| 26 24 19 00-0257   | EA   | 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....   | 24,026.94<br>156.01       | 260.02                  |
| 26 24 19 00-0258   | EA   | 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....   | 36,329.17<br>172.88       | 288.13                  |
| 26 24 19 00-0259   | EA   | 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....  | 49,526.76<br>210.83       | 351.37                  |
| 26 24 19 00-0260   | EA   | 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....  | 67,198.90<br>269.87       | 449.76                  |
| <b>26 24 19 00-0261</b>  | <b>480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small></b> |   |                           |                         |
| Note: Energy saver.  |  |   |                           |                         |
| 26 24 19 00-0262   | EA   | 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....   | 20,489.73<br>109.63       | 182.72                  |
| 26 24 19 00-0263   | EA   | 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....   | 21,753.40<br>134.93       | 224.88                  |
| 26 24 19 00-0264   | EA   | 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....   | 24,026.94<br>156.01       | 260.02                  |
| 26 24 19 00-0265   | EA   | 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....  | 36,329.17<br>172.88       | 288.13                  |
| 26 24 19 00-0266   | EA   | 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....  | 49,526.76<br>210.83       | 351.37                  |
| 26 24 19 00-0267   | EA   | 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With<br>MCP .....  | 67,198.90<br>269.87       | 449.76                  |
| <b>26 24 19 00-0268</b>  | <b>Starter Accessories <small>(26 24 19)</small></b>   |   |                           |                         |
| Note: Additional options or accessories for the Combination Starters |  |   |                           |                         |
| <b>26 24 19 00-0269</b>  | <b>Starter Modifications <small>(26 24 19 00-0268)</small></b>   |   |                           |                         |
| 26 24 19 00-0270   | EA   | Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer .....  | 187.23                    |                         |
| 26 24 19 00-0271   | EA   | Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer .....   | 356.55                    |                         |
| 26 24 19 00-0272   | EA   | Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer .....   | 509.68                    |                         |
| 26 24 19 00-0273   | EA   | Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes .....   | 127.99                    |                         |
| 26 24 19 00-0274   | EA   | Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes .....  | 180.56                    |                         |
| 26 24 19 00-0275   | EA   | Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes .....  | 303.98                    |                         |
| 26 24 19 00-0276   | EA   | Overload Relay Heater Elements, 3 Per Starter .....   | 75.42                     |                         |
| 26 24 19 00-0277   | EA   | N.O. Overload Relay Alarm .....   | 64.00                     |                         |
| 26 24 19 00-0278   | EA   | Control Circuit Fuses, Primary/Secondary .....  | 202.20                    |                         |
| 26 24 19 00-0279   | EA   | Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton .....   | 249.99                    |                         |
| 26 24 19 00-0280   | EA   | Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton .....   | 488.95                    |                         |
| 26 24 19 00-0281   | EA   | Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select .....  | 249.99                    |                         |
| 26 24 19 00-0282   | EA   | Control Devices Type PB2 Mount On Device, Individual Light Full V .....   | 286.75                    |                         |
| 26 24 19 00-0283   | EA   | Control Devices Type PB2 Mount On Device, Individual Light Transformer .....  | 345.58                    |                         |
| 26 24 19 00-0284   | EA   | Control Devices Type PB2 Mount On Device, Individual Light Push To .....  | 408.07                    |                         |
| 26 24 19 00-0285   | EA   | Blank Devices Panel .....   | 77.20                     |                         |
| 26 24 19 00-0286   | EA   | Oversize Or Special Color Starter .....   | 121.32                    |                         |
| 26 24 19 00-0287   | EA   | Mini Voltmeter/Ammeter With Current Transformer .....   | 1,053.15                  |                         |
| 26 24 19 00-0288   | EA   | Mini Elapsed Time Meters, Non-Resettable .....  | 953.89                    |                         |
| 26 24 19 00-0289   | EA   | Panel Elapsed Time Meter, Resettable .....  | 1,433.77                  |                         |
| 26 24 19 00-0290   | EA   | Terminal Blocks, Side Mounted, Press Connection, Plug-In Press .....  | 121.32                    |                         |
| 26 24 19 00-0291   | EA   | Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw .....  | 172.79                    |                         |
| 26 24 19 00-0292   | EA   | Terminal Blocks, Front Mounted, Press Connection, Standard .....  | 121.32                    |                         |
| 26 24 19 00-0293   | EA   | Terminal Blocks, Front Mounted, Press Connection, Plug-In .....   | 172.79                    |                         |
| 26 24 19 00-0294   | EA   | Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility .....  | 172.79                    |                         |
| 26 24 19 00-0295   | EA   | Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type .....  | 249.99                    |                         |
| 26 24 19 00-0296   | EA   | MOR - A Solid State Modular Overload Relay .....  | 621.30                    |                         |
| 26 24 19 00-0297   | EA   | Heater Module .....   | 79.21                     |                         |

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Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like LAM - Long Acceleration Module, JAM - Jam Protection Module, PUM - Phase Unbalance Module, and various control relays and circuit breaker modifications.



| MINOR<br>CSI UOM DESCRIPTION |   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---|---------------------------|-------------------------|
| 26 24 19 00-0360             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 4,927.99<br>84.33         | 140.55                  |
| 26 24 19 00-0361             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 3,068.62<br>54.81         | 91.36                   |
| 26 24 19 00-0362             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 4,927.99<br>84.33         | 140.55                  |
| 26 24 19 00-0363             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5,263.40<br>54.81         | 91.36                   |
| 26 24 19 00-0364             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7,196.28<br>84.33         | 140.55                  |
| 26 24 19 00-0365             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 8,953.57<br>84.33         | 140.55                  |
| 26 24 19 00-0366             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 4,674.32<br>84.33         | 140.55                  |
| 26 24 19 00-0367             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 11,820.67<br>231.98       | 386.51                  |
| 26 24 19 00-0368             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11,820.67<br>231.98       | 386.51                  |
| 26 24 19 00-0369             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 15,989.45<br>252.89       | 421.65                  |
| 26 24 19 00-0370             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 19,990.09<br>295.03       | 491.93                  |
| 26 24 19 00-0371             | EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 22,990.22<br>350.25       | 583.29                  |
| <b>26 24 19 00-0372</b>      | <b>Incoming Line And Feeder Fusible Switches</b> <small>(26 24 19 00-0268)</small>  |                           |                         |
| 26 24 19 00-0373             | EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches  | 1,975.78                  | 140.55                  |
| 26 24 19 00-0374             | EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual   | 3,029.56                  | 140.55                  |
| 26 24 19 00-0375             | EA 100 Amperes, Incoming Line And Feeder Fusible Switches   | 4,387.98                  | 175.69                  |
| 26 24 19 00-0376             | EA 200 Amperes, Incoming Line And Feeder Fusible Switches   | 7,182.53                  | 210.82                  |
| 26 24 19 00-0377             | EA 400 Amperes, Incoming Line And Feeder Fusible Switches   | 14,250.64                 | 267.05                  |
| 26 24 19 00-0378             | EA 600 Amperes, Incoming Line And Feeder Fusible Switches   | 20,003.52                 | 351.37                  |
| 26 24 19 00-0379             | EA 800 Amperes, Incoming Line And Feeder Fusible Switches   | 48,891.48                 | 470.84                  |
| 26 24 19 00-0380             | EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches   | 55,084.74                 | 653.56                  |
| <b>26 24 19 00-0381</b>      | <b>Dry Type Distribution Transformers</b> <small>(26 24 19 00-0268)</small>   |                           |                         |
| 26 24 19 00-0382             | EA 500 VA, Phase 1, Dry Type Distribution Transformers  | 2,507.26                  |                         |
| 26 24 19 00-0383             | EA 750 VA, Phase 1, Dry Type Distribution Transformers  | 2,588.14                  |                         |
| 26 24 19 00-0384             | EA 1,000 VA, Phase 1, Dry Type Distribution Transformers  | 2,672.69                  |                         |
| 26 24 19 00-0385             | EA 1,500 VA, Phase 1, Dry Type Distribution Transformers  | 3,066.06                  |                         |
| 26 24 19 00-0386             | EA 2,000 VA, Phase 1, Dry Type Distribution Transformers  | 3,323.41                  |                         |
| 26 24 19 00-0387             | EA 3,000 VA, Phase 1, Dry Type Distribution Transformers  | 2,575.63                  |                         |
| 26 24 19 00-0388             | EA 5,000 VA, Phase 1, Dry Type Distribution Transformers  | 4,521.89                  |                         |
| 26 24 19 00-0389             | EA 7,500 VA, Phase 1, Dry Type Distribution Transformers  | 5,095.40                  |                         |
| 26 24 19 00-0390             | EA 9,000 VA, Phase 3, Dry Type Distribution Transformers  | 11,845.15                 |                         |
| 26 24 19 00-0391             | EA 10,000 VA, Phase 1, Dry Type Distribution Transformers   | 6,286.53                  |                         |
| 26 24 19 00-0392             | EA 15,000 VA, Phase 1, Dry Type Distribution Transformers   | 8,709.24                  |                         |
| 26 24 19 00-0393             | EA 15,000 VA, Phase 3, Dry Type Distribution Transformers   | 13,573.03                 |                         |
| 26 24 19 00-0394             | EA 20,000 VA, Phase 1, Dry Type Distribution Transformers   | 12,569.39                 |                         |
| 26 24 19 00-0395             | EA 30,000 VA, Phase 1, Dry Type Distribution Transformers   | 17,418.47                 |                         |
| 26 24 19 00-0396             | EA 30,000 VA, Phase 3, Dry Type Distribution Transformers   | 12,314.05                 |                         |
| 26 24 19 00-0397             | EA 45,000 VA, Phase 1, Dry Type Distribution Transformers   | 17,057.24                 |                         |
| <b>26 24 19 00-0398</b>      | <b>Metering Equipment</b> <small>(26 24 19 00-0268)</small>   |                           |                         |
| 26 24 19 00-0399             | EA Metering Equipment, Voltmeter, Panel Type  | 1,183.78                  |                         |
| 26 24 19 00-0400             | EA Metering Equipment, Voltmeter, Switchboard Type  | 2,588.14                  |                         |
| 26 24 19 00-0401             | EA Metering Equipment, Ammeter, Panel   | 1,066.14                  |                         |
| 26 24 19 00-0402             | EA Metering Equipment, Ammeter, Switchboard Type  | 2,588.14                  |                         |
| 26 24 19 00-0403             | EA Metering Equipment, Voltmeter/Ammeter, Switch  | 1,437.45                  |                         |
| 26 24 19 00-0404             | EA Metering Equipment, Control Switch, 4 Circuits   | 1,525.68                  |                         |
| 26 24 19 00-0405             | EA Add For Additional Circuits  | 132.02                    |                         |
| 26 24 19 00-0406             | EA Metering Equipment, Indicating Wattmeter   | 5,338.04                  |                         |
| 26 24 19 00-0407             | EA Metering Equipment, Indicating Power Factor  | 5,591.70                  |                         |
| 26 24 19 00-0408             | EA Metering Equipment, Integrating Watt-hour  | 4,929.96                  |                         |
| 26 24 19 00-0409             | EA Add For Demand Attachment  | 864.14                    |                         |
| 26 24 19 00-0410             | EA 800 Amperes, Metering Equipment, Current Transformer   | 1,474.21                  |                         |
| 26 24 19 00-0411             | EA 1,000 Amperes, Metering Equipment, Current Transformer   | 2,544.02                  |                         |
| 26 24 19 00-0412             | EA 2,000 Amperes, Metering Equipment, Current Transformer   | 2,963.13                  |                         |
| 26 24 19 00-0413             | EA Metering Equipment, Potential Transformer  | 2,470.50                  |                         |
| 26 24 19 00-0414             | EA Metering Equipment, Surge Arrester   | 2,657.99                  |                         |
| 26 24 19 00-0415             | EA Metering Equipment, Ground Detector System   | 2,033.01                  |                         |
| <b>26 24 19 00-0416</b>      | <b>Current Limiting Reactors</b> <small>(26 24 19 00-0268)</small>  |                           |                         |
| 26 24 19 00-0417             | EA 600 Amperes, Current Limiting Reactors   | 45,376.99                 |                         |
| 26 24 19 00-0418             | EA 800 Amperes, Current Limiting Reactors   | 66,082.11                 |                         |
| 26 24 19 00-0419             | EA 1,000 Amperes, Current Limiting Reactors   | 86,835.02                 |                         |
| 26 24 19 00-0420             | EA 1,200 Amperes, Current Limiting Reactors   | 132,178.93                |                         |

**26 Electrical**  
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| MINOR | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-------------|------------------------|----------------------|
|-------|-------------|------------------------|----------------------|

**26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)**

|                  |    |   |          |  |
|------------------|----|---|----------|--|
| 26 24 19 00-0422 | EA | Incoming Line Cable Space Requirement, 350 MCC, 2 Screw   | 495.96   |  |
| 26 24 19 00-0423 | EA | Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp   | 495.96   |  |
| 26 24 19 00-0424 | EA | Incoming Line Cable Space Requirement, 350 MCC, 4 Screw   | 685.67   |  |
| 26 24 19 00-0425 | EA | Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp   | 1,254.77 |  |
| 26 24 19 00-0426 | EA | Incoming Line Cable Space Requirement, 600 MCC, 2 Screw   | 685.67   |  |
| 26 24 19 00-0427 | EA | Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp   | 875.37   |  |
| 26 24 19 00-0428 | EA | Incoming Line Cable Space Requirement, 600 MCC, 4 Screw   | 875.37   |  |
| 26 24 19 00-0429 | EA | Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp   | 1,252.48 |  |
| 26 24 19 00-0430 | EA | Incoming Line Cable Space Requirement, 750 MCC, 2 Screw   | 875.37   |  |
| 26 24 19 00-0431 | EA | Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp   | 1,252.48 |  |
| 26 24 19 00-0432 | EA | Incoming Line Cable Space Requirement, 750 MCC, 4 Screw   | 1,065.07 |  |
| 26 24 19 00-0433 | EA | Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp   | 3,453.47 |  |
| 26 24 19 00-0434 | EA | Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw | 1,065.07 |  |
| 26 24 19 00-0435 | EA | Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp | 1,252.48 |  |
| 26 24 19 00-0436 | EA | Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw | 3,453.47 |  |
| 26 24 19 00-0437 | EA | Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp | 3,453.47 |  |
| 26 24 19 00-0438 | EA | Bus Duct Transition Pull Box                              | 1,065.10 |  |
| 26 24 19 00-0439 | EA | Throat And Transition To Substation                       | 2,056.17 |  |
| 26 24 19 00-0440 | EA | Service Entrance Label                                    | 445.29   |  |
| 26 24 19 00-0441 | EA | Type W To 5 Star - 10" Transition                         | 930.78   |  |
| 26 24 19 00-0442 | EA | 600 Amperes, Sub Feed Lugs On Main Bus                    | 573.70   |  |

**26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)**

|                  |    |  |          |  |
|------------------|----|--|----------|--|
| 26 24 19 00-0444 | EA | Standard Structure Add For Each Additional 4" Of Structure Width | 294.04   |  |
| 26 24 19 00-0445 | EA | Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"     | 294.04   |  |
| 26 24 19 00-0446 | EA | Standard Structure Single Corner Section "L", 16" Depth          | 909.62   |  |
| 26 24 19 00-0447 | EA | Standard Structure Single Corner Section "L", 21" Depth          | 1,025.97 |  |
| 26 24 19 00-0448 | EA | Standard Structure Unused Space/Future Space                     | 87.79    |  |
| 26 24 19 00-0449 | EA | Standard Structure NEMA 12 Dustproof                             | 236.92   |  |
| 26 24 19 00-0450 | EA | Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure      | 49.71    |  |
| 26 24 19 00-0451 | EA | Standard Structure 150 Watt Space                                | 213.66   |  |
| 26 24 19 00-0452 | EA | Standard Structure Thermostat For Space Heater Control           | 698.52   |  |
| 26 24 19 00-0453 | EA | Standard Structure Rear Hinged Structure Door, 72" High          | 213.66   |  |
| 26 24 19 00-0454 | EA | Standard Structure NEMA 2 Drip Shield On Top Of MCC              | 451.28   |  |
| 26 24 19 00-0455 | EA | Standard Structure NEMA 3R N-Walk In Front Mounted               | 6,437.87 |  |
| 26 24 19 00-0456 | EA | Standard Structure NEMA 3R N-Walk In Back-to-back                | 7,441.24 |  |
| 26 24 19 00-0457 | EA | Standard Structure NEMA 3R Walk-In Aisle Front Mounted           | 7,448.44 |  |

**26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)**

|                  |    |  |          |          |
|------------------|----|--|----------|----------|
| 26 24 19 00-0459 | EA | Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes   | 843.27   | 421.65   |
| 26 24 19 00-0460 | EA | Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes   | 1,264.90 | 632.48   |
| 26 24 19 00-0461 | EA | Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes   | 1,405.52 | 702.76   |
| 26 24 19 00-0462 | EA | Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes   | 1,686.76 | 843.31   |
| 26 24 19 00-0463 | EA | Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes       | 140.55   | 70.27    |
| 26 24 19 00-0464 | EA | Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes   | 843.27   | 421.65   |
| 26 24 19 00-0465 | EA | Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes   | 1,264.90 | 632.48   |
| 26 24 19 00-0466 | EA | Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes   | 1,405.52 | 702.76   |
| 26 24 19 00-0467 | EA | Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes   | 1,686.76 | 843.31   |
| 26 24 19 00-0468 | EA | Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes       | 140.55   | 70.27    |
| 26 24 19 00-0469 | EA | Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes | 983.88   | 491.93   |
| 26 24 19 00-0470 | EA | Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes | 1,264.90 | 632.48   |
| 26 24 19 00-0471 | EA | Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes | 1,686.76 | 843.31   |
| 26 24 19 00-0472 | EA | Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes | 1,967.46 | 983.72   |
| 26 24 19 00-0473 | EA | Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes     | 210.82   | 105.41   |
| 26 24 19 00-0474 | EA | Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes | 1,124.41 | 562.21   |
| 26 24 19 00-0475 | EA | Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes | 1,546.20 | 773.03   |
| 26 24 19 00-0476 | EA | Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes | 1,967.46 | 983.72   |
| 26 24 19 00-0477 | EA | Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes | 2,248.44 | 1,124.27 |
| 26 24 19 00-0478 | EA | Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes     | 281.10   | 140.55   |
| 26 24 19 00-0479 | EA | Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes | 1,124.41 | 562.21   |
| 26 24 19 00-0480 | EA | Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes | 1,686.76 | 843.31   |
| 26 24 19 00-0481 | EA | Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes | 2,108.04 | 1,053.99 |
| 26 24 19 00-0482 | EA | Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes | 2,389.53 | 1,194.82 |
| 26 24 19 00-0483 | EA | Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes     | 281.10   | 140.55   |

**26 24 19 00-0484 Motor Control Centers (26 24 19)**

**26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)**

|                  |    |   |               |        |
|------------------|----|---|---------------|--------|
| 26 24 19 00-0486 | EA | 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp                                  | 17,361.40     | 281.10 |
|                  |    | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | <i>168.66</i> |        |
| 26 24 19 00-0487 | EA | 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp   | 17,361.40     | 281.10 |
|                  |    | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | <i>168.66</i> |        |
| 26 24 19 00-0488 | EA | 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp   | 17,361.40     | 281.10 |
|                  |    | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | <i>168.66</i> |        |



| MINOR            | CSI | UOM  | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|--|---|------------------------|----------------------|
| 26 24 19 00-0489 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 700 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 17,431.71<br>189.76    | 316.24               |
| 26 24 19 00-0490 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 1,000 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 18,519.15<br>210.83    | 351.37               |
| 26 24 19 00-0491 | EA  | 2,400 KV CL  | 11-202, Squirrel Cage Motor Control, 1,250 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 18,589.40<br>231.90    | 386.51               |
| 26 24 19 00-0492 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 1,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 18,659.66<br>252.98    | 421.65               |
| 26 24 19 00-0493 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 1,750 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 18,800.27<br>295.16    | 491.93               |
| 26 24 19 00-0494 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 2,000 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 18,940.80<br>337.32    | 562.21               |
| 26 24 19 00-0495 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 2,250 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 31,760.32<br>379.47    | 632.48               |
| 26 24 19 00-0496 | EA  | 2.4 KV CL  | 11-202, Squirrel Cage Motor Control, 2,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 34,099.73<br>421.66    | 702.76               |
| 26 24 19 00-0497 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 100 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 25,700.38<br>168.66    | 281.10               |
| 26 24 19 00-0498 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 150 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 26,778.24<br>181.31    | 302.19               |
| 26 24 19 00-0499 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 200 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 30,416.22<br>198.17    | 330.29               |
| 26 24 19 00-0500 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 300 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 33,849.06<br>210.83    | 351.37               |
| 26 24 19 00-0501 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 400 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 36,838.47<br>244.57    | 407.60               |
| 26 24 19 00-0502 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 600 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 40,357.25<br>261.43    | 435.71               |
| 26 24 19 00-0503 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 700 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 43,873.93<br>278.28    | 463.82               |
| 26 24 19 00-0504 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 1,000 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 48,049.75<br>303.60    | 505.98               |
| 26 24 19 00-0505 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 1,250 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 55,903.14<br>337.32    | 562.21               |
| 26 24 19 00-0506 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 1,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 60,562.19<br>358.43    | 597.35               |
| 26 24 19 00-0507 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 1,750 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 92,398.58<br>421.66    | 702.76               |
| 26 24 19 00-0508 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 2,000 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 98,457.51<br>463.86    | 773.03               |
| 26 24 19 00-0509 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 2,250 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 103,735.44<br>506.03   | 843.31               |
| 26 24 19 00-0510 | EA  | 2.4 KV CL  | 13-202, Wound Rotor Motor Control, 2,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 112,954.92<br>548.24   | 913.72               |
| 26 24 19 00-0511 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 100 To 300 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 24,255.75<br>168.66    | 281.10               |
| 26 24 19 00-0512 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 400 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 24,326.06<br>169.76    | 316.24               |
| 26 24 19 00-0513 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 600 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 24,396.30<br>210.83    | 351.37               |
| 26 24 19 00-0514 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 700 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>          | 24,466.55<br>231.90    | 386.51               |
| 26 24 19 00-0515 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 1,000 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 24,540.92<br>252.98    | 421.65               |
| 26 24 19 00-0516 | EA  | 2,400 Volt CL  | 14-202, Synchronous Motor Control, 1,250 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 24,611.26<br>274.08    | 456.80               |
| 26 24 19 00-0517 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 1,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 24,681.53<br>295.16    | 491.93               |
| 26 24 19 00-0518 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 1,750 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 24,962.55<br>379.47    | 632.48               |
| 26 24 19 00-0519 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 2,000 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 42,370.89<br>421.66    | 702.76               |
| 26 24 19 00-0520 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 2,250 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 42,511.57<br>463.86    | 773.03               |
| 26 24 19 00-0521 | EA  | 2.4 KV CL  | 14-202, Synchronous Motor Control, 2,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 44,838.60<br>506.03    | 843.31               |
| 26 24 19 00-0522 | EA  | Add For Reversing Starters, 100 To 700 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>     | 9,548.91<br>84.33   |                        |                      |
| 26 24 19 00-0523 | EA  | Add For Reversing Starters, 1,000 To 1,500 Hp<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 9,836.60<br>84.33   |                        |                      |
| 26 24 19 00-0524 | EA  | Add For Reversing Starters, 1,750 To 2,500 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 15,025.35<br>84.33  |                        |                      |
| 26 24 19 00-0525 |     |  | <b>4.8 KV Motor Control Centers</b> <small>(26 24 19 00-0489)</small>   |                        |                      |
| 26 24 19 00-0526 | EA  | 4.8 KV CL  | 11-202, Squirrel Cage Motor Control, 100 To 600 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 18,947.36<br>252.98    | 421.65               |
| 26 24 19 00-0527 | EA  | 4.8 KV CL  | 11-202, Squirrel Cage Motor Control, 700 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 19,017.70<br>274.08    | 456.80               |
| 26 24 19 00-0528 | EA  | 4.8 KV CL  | 11-202, Squirrel Cage Motor Control, 1,000 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 19,087.97<br>295.16    | 491.93               |
| 26 24 19 00-0529 | EA  | 4.8 KV CL  | 11-202, Squirrel Cage Motor Control, 1,250 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 19,158.28<br>316.26    | 527.07               |





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 20,235.42<br>337.32       | 562.21                  |
| 26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 20,305.77<br>358.43       | 597.35                  |
| 26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 20,375.91<br>379.47       | 632.48                  |
| 26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 20,446.32<br>400.59       | 667.62                  |
| 26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 20,516.53<br>421.66       | 702.76                  |
| 26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 34,634.71<br>548.24       | 913.72                  |
| 26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 34,774.69<br>590.24       | 983.72                  |
| 26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 37,103.79<br>632.41       | 1,053.99                |
| 26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>    | 37,244.19<br>674.53       | 1,124.27                |
| 26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 26,273.24<br>252.98       | 421.65                  |
| 26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 26,631.27<br>274.08       | 456.80                  |
| 26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 31,037.48<br>295.16       | 491.93                  |
| 26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 34,488.18<br>316.26       | 527.07                  |
| 26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 37,435.33<br>337.32       | 562.21                  |
| 26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 40,968.26<br>358.43       | 597.35                  |
| 26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 44,285.22<br>379.47       | 632.48                  |
| 26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 48,660.75<br>400.59       | 667.62                  |
| 26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 56,334.26<br>421.66       | 702.76                  |
| 26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 61,554.26<br>442.75       | 737.90                  |
| 26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 66,844.55<br>484.92       | 808.17                  |
| 26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 71,207.68<br>506.03       | 843.31                  |
| 26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 75,324.00<br>527.07       | 878.45                  |
| 26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 81,076.52<br>548.24       | 913.72                  |
| 26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 128,370.83<br>674.53      | 1,124.27                |
| 26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 142,732.15<br>716.86      | 1,194.82                |
| 26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 171,487.58<br>758.95      | 1,264.96                |
| 26 24 19 00-0556 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 181,361.60<br>758.95      | 1,264.96                |
| 26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 25,978.20<br>295.16       | 491.93                  |
| 26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>        | 26,048.51<br>316.26       | 527.07                  |
| 26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 26,118.73<br>337.32       | 562.21                  |
| 26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 26,189.08<br>358.43       | 597.35                  |
| 26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 28,425.14<br>379.47       | 632.48                  |
| 26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 28,495.55<br>400.59       | 667.62                  |
| 26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 28,565.76<br>421.66       | 702.76                  |
| 26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 28,636.06<br>442.75       | 737.90                  |
| 26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 28,706.44<br>463.86       | 773.03                  |
| 26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 29,127.70<br>590.24       | 983.72                  |
| 26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 46,823.69<br>632.41       | 1,053.99                |
| 26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 49,142.34<br>674.53       | 1,124.27                |
| 26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>      | 49,142.34<br>674.53       | 1,124.27                |
| 26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 10,588.95<br>84.33        |                         |
| 26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 10,908.93<br>84.33        |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                  | 16,679.95<br>84.33        |                         |
| <b>26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)</b>  |                           |                         |
| 26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes   | 13,818.42                 | 281.10                  |
| 26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes   | 16,638.73                 | 421.65                  |
| 26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant   | 5,396.19                  |                         |
| 26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters  | 273.40                    | 21.08                   |
| 26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused  | 1,563.32                  |                         |
| 26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA  | 838.80                    |                         |
| 26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max  | 2,498.11                  |                         |
| 26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each   | 159.99                    |                         |
| 26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each   | 530.25                    |                         |
| 26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light   | 159.99                    |                         |
| 26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light   | 484.54                    |                         |
| 26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type   | 1,289.05                  |                         |
| 26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type   | 1,289.05                  |                         |
| 26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter   | 3,855.73                  |                         |
| 26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout   | 2,658.10                  |                         |
| 26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter  | 526.70                    | 21.08                   |
| 26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection   | 3,756.30                  | 70.27                   |
| 26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection  | 7,137.20                  | 35.14                   |
| 26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection  | 2,873.22                  | 35.14                   |
| 26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters  | 5,306.24                  | 21.08                   |
| 26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism   | 7,673.41                  |                         |
| 26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay   | 630.85                    | 70.27                   |
| 26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay  | 464.78                    | 70.27                   |
| <b>26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484)</b>   |                           |                         |
| Note: 3 Pole. Includes structure.   |                           |                         |
| 26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure<br>Included   | 1,470.28                  | 421.48                  |
| 26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure<br>Included  | 2,555.80                  | 746.03                  |
| 26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure<br>Included  | 3,075.59                  | 955.24                  |
| 26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure<br>Included  | 4,922.97                  | 1,538.21                |
| 26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure<br>Included  | 5,770.16                  | 1,692.04                |
| 26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure<br>Included  | 7,357.15                  | 1,876.62                |
| 26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure<br>Included  | 8,567.56                  | 2,199.65                |
| 26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure<br>Included   | 14,420.88                 | 2,562.67                |
| <b>26 24 19 00-0606 Main Lugs Only (26 24 19 00-0484)</b>   |                           |                         |
| 26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs   | 1,225.89                  | 538.38                  |
| 26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs   | 1,334.79                  | 538.38                  |
| 26 24 19 00-0609 EA 1,200 Amperes Incoming Section, Main Lugs   | 1,887.05                  | 846.02                  |
| 26 24 19 00-0610 EA 2,000 Amperes Incoming Section, Main Lugs   | 4,458.52                  | 1,538.21                |
| 26 24 19 00-0611 EA 3,000 Amperes Incoming Section, Main Lugs   | 6,755.27                  | 2,230.41                |
| 26 24 19 00-0612 EA 4,000 Amperes Incoming Section, Main Lugs   | 9,597.44                  | 3,076.43                |
| <b>26 24 19 00-0613 Incoming Main Circuit Breaker Structure (26 24 19 00-0484)</b>  |                           |                         |
| Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus. |                           |                         |
| 26 24 19 00-0614 EA 225 Amperes, Main Circuit Breaker Section   | 7,362.73                  | 744.34                  |
| <i>For 800 Amperes, Tin Plated Copper Bus, Add</i>  |                           | 182.00                  |
| <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>  |                           | 334.00                  |
| <i>For NEMA 1 With Gaskets, Add</i>   |                           | 97.00                   |
| <i>For NEMA 12, Add</i>   |                           | 245.00                  |
| <i>For 20" Cabinet Depth, Add</i>   |                           | 108.00                  |
| 26 24 19 00-0615 EA 400 Amperes, Main Circuit Breaker Section   | 15,420.33                 | 956.16                  |
| <i>For 800 Amperes, Tin Plated Copper Bus, Add</i>  |                           | 182.00                  |
| <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>  |                           | 334.00                  |
| <i>For NEMA 1 With Gaskets, Add</i>   |                           | 97.00                   |
| <i>For NEMA 12, Add</i>   |                           | 245.00                  |
| <i>For 20" Cabinet Depth, Add</i>   |                           | 108.00                  |
| 26 24 19 00-0616 EA 600 Amperes, Main Circuit Breaker Section   | 16,177.27                 | 1,489.30                |
| <i>For 800 Amperes, Tin Plated Copper Bus, Add</i>  |                           | 182.00                  |
| <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>  |                           | 334.00                  |
| <i>For NEMA 1 With Gaskets, Add</i>   |                           | 97.00                   |
| <i>For NEMA 12, Add</i>   |                           | 245.00                  |
| <i>For 20" Cabinet Depth, Add</i>   |                           | 108.00                  |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0617 EA 800 Amperes, Main Circuit Breaker Section .....  | 22,775.58                 | 1,489.30                |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| 26 24 19 00-0618 EA 1,200 Amperes, Main Circuit Breaker Section .....  | 32,807.44                 | 1,685.12                |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| <b>26 24 19 00-0619 Incoming Fusible Main Disconnect Section</b> <small>(26 24 19 00-0484)</small>   |                           |                         |
| Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus. |                           |                         |
| 26 24 19 00-0620 EA 200 Amperes, Fusible Main Disconnect Section .....   | 6,426.25                  | 745.27                  |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| 26 24 19 00-0621 EA 400 Amperes, Fusible Main Disconnect Section .....   | 8,848.66                  | 956.62                  |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| 26 24 19 00-0622 EA 600 Amperes, Fusible Main Disconnect Section .....   | 17,160.18                 | 1,490.53                |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| 26 24 19 00-0623 EA 800 Amperes, Fusible Main Disconnect Section .....   | 19,866.93                 | 1,490.53                |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| 26 24 19 00-0624 EA 1,200 Amperes, Fusible Main Disconnect Section .....   | 27,841.91                 | 1,686.65                |
| For 800 Amperes, Tin Plated Copper Bus, Add  | 182.00                    |                         |
| For 1,200 Amperes, Tin Plated Copper Bus, Add  | 334.00                    |                         |
| For NEMA 1 With Gaskets, Add   | 97.00                     |                         |
| For NEMA 12, Add   | 245.00                    |                         |
| For 20" Cabinet Depth, Add   | 108.00                    |                         |
| <b>26 24 19 00-0625 Circuit Breaker Combination Starters</b> <small>(26 24 19 00-0484)</small>   |                           |                         |
| <b>26 24 19 00-0626 Class I, Type A</b> <small>(26 24 19 00-0625)</small>  |                           |                         |
| 26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter .....  | 1,206.88                  | 312.25                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 178.04                    |                         |
| 26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter .....  | 1,397.86                  | 312.25                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 197.21                    |                         |
| 26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter .....  | 2,016.29                  | 443.00                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 265.21                    |                         |
| 26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter .....  | 3,232.82                  | 582.99                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 349.59                    |                         |
| 26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter .....  | 5,675.44                  | 729.11                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 436.99                    |                         |
| <b>26 24 19 00-0632 Class I, Type B</b> <small>(26 24 19 00-0625)</small>  |                           |                         |
| 26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter .....  | 1,133.21                  | 272.26                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 153.82                    |                         |
| 26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter .....  | 1,317.91                  | 272.26                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 173.22                    |                         |
| 26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter .....  | 1,921.09                  | 393.79                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 236.65                    |                         |
| 26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter .....  | 3,135.71                  | 533.76                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 320.46                    |                         |
| 26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter .....  | 5,597.12                  | 681.43                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 413.50                    |                         |
| <b>26 24 19 00-0638 Class I, Type C</b> <small>(26 24 19 00-0625)</small>  |                           |                         |
| 26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter .....  | 1,179.94                  | 252.27                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 139.33                    |                         |
| 26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter .....  | 1,378.80                  | 252.27                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 163.64                    |                         |
| 26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter .....  | 2,038.01                  | 376.87                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 226.21                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 3,261.38<br>312.65        | 521.46                  |
| 26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 5,710.31<br>400.58        | 669.13                  |
| <b>26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small></b>   |                           |                         |
| 26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,230.60<br>211.29        | 373.78                  |
| 26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,662.78<br>235.92        | 373.78                  |
| 26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,332.01<br>298.10        | 498.38                  |
| 26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,738.85<br>384.56        | 638.36                  |
| 26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6,592.73<br>468.97        | 779.87                  |
| <b>26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small></b>   |                           |                         |
| 26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,494.42<br>202.40        | 353.79                  |
| 26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,708.18<br>221.01        | 353.79                  |
| 26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,456.11<br>289.14        | 483.00                  |
| 26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,853.24<br>373.35        | 622.98                  |
| 26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6,727.87<br>463.32        | 769.11                  |
| <b>26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small></b>   |                           |                         |
| <b>26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small></b>  |                           |                         |
| 26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,109.05<br>173.22        | 287.64                  |
| 26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,653.72<br>235.92        | 393.79                  |
| 26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,578.94<br>307.64        | 512.22                  |
| 26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,536.17<br>432.08        | 718.34                  |
| 26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6,042.47<br>549.36        | 915.24                  |
| <b>26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small></b>  |                           |                         |
| 26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,112.83<br>153.82        | 256.88                  |
| 26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,501.78<br>211.29        | 352.25                  |
| 26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,200.07<br>282.76        | 470.69                  |
| 26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,633.37<br>409.10        | 679.90                  |
| 26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 6,118.26<br>519.67        | 864.48                  |
| <b>26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small></b>  |                           |                         |
| 26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,163.97<br>144.03        | 239.96                  |
| 26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,567.28<br>197.21        | 326.10                  |
| 26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 2,367.40<br>274.68        | 453.77                  |
| 26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,799.22<br>400.58        | 669.13                  |
| 26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 5,803.38<br>512.74        | 855.25                  |
| <b>26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small></b>   |                           |                         |
| 26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,419.88<br>216.04        | 359.94                  |
| 26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,826.77<br>268.92        | 449.16                  |
| 26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,616.83<br>346.44        | 578.37                  |
| 26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4,190.76<br>468.97        | 779.87                  |

|              |  |
|--------------|--|
| <b>26</b>    | <b>Electrical</b>                          |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b> |
| <b>26 24</b> | <b>Switchboards and Panelboards</b>        |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 7,023.46<br>582.66  | 973.69                  |
| <b>26 24 19 00-0681 Class II, Type C</b> <small>(26 24 19 00-0656)</small>   |   |                         |
| 26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,458.18<br>202.40  | 338.41                  |
| 26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,891.73<br>254.67  | 424.55                  |
| 26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,751.09<br>331.51  | 552.22                  |
| 26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 4,337.58<br>457.80  | 761.42                  |
| 26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter .....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 7,160.60<br>565.52  | 942.92                  |
| <b>26 24 19 00-0687 Space Complete With Bus And Hardware</b> <small>(26 24 19 00-0484)</small>   |   |                         |
| <b>26 24 19 00-0688 Circuit Breaker Type</b> <small>(26 24 19 00-0687)</small>   |   |                         |
| 26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....   | 348.83  | 104.60                  |
| 26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....   | 348.83  | 104.60                  |
| 26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....   | 517.34  | 152.29                  |
| 26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....   | 621.83  | 199.97                  |
| 26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....   | 1,030.97  | 304.57                  |
| <b>26 24 19 00-0694 Fused Disconnect Type</b> <small>(26 24 19 00-0687)</small>  |   |                         |
| 26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....  | 348.83  | 104.60                  |
| 26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....  | 468.07  | 152.29                  |
| 26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....  | 645.94  | 199.97                  |
| 26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....  | 1,098.26  | 304.57                  |
| 26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....  | 1,538.35  | 443.00                  |
| <b>26 24 19 00-0700 Blank Space For Future Expansion</b> <small>(26 24 19 00-0687)</small>   |   |                         |
| Note: Factory modified no labor costs.   |   |                         |
| 26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....  | 140.40  |                         |
| 26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....  | 140.40  |                         |
| 26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....  | 212.86  |                         |
| 26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....  | 212.86  |                         |
| 26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....  | 423.46  |                         |
| <b>26 24 19 00-0706 Structure Combination Of Starters To 72" High</b> <small>(26 24 19 00-0687)</small>  |   |                         |
| 26 24 19 00-0707 EA Structure Combination Of Starters To 72" High.....   | 3,901.56  | 809.56                  |
| <b>26 24 19 00-0708 Motor Control Center Basic Distribution Section</b> <small>(26 24 19 00-0484)</small>  |   |                         |
| 26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway .....<br><i>For 20" Cabinet Depth, Add</i><br><i>For 800 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i><br><i>For NEMA 1 With Gasket, Add</i><br><i>For NEMA 12, Add</i><br><i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>        | 6,834.95<br>108.00<br>182.00<br>334.00<br>402.00<br>506.00<br>97.00<br>245.00<br>210.00 | 2,108.28                |
| 26 24 19 00-0710 EA 25" To 35" Wide Basic Section (No Vertical Wireway).....<br><i>For 20" Cabinet Depth, Add</i><br><i>For 800 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i><br><i>For NEMA 1 With Gasket, Add</i><br><i>For NEMA 12, Add</i><br><i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>  | 6,834.95<br>108.00<br>182.00<br>334.00<br>402.00<br>506.00<br>97.00<br>245.00<br>210.00 | 2,108.28                |
| 26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway.....<br><i>For 20" Cabinet Depth, Add</i><br><i>For 800 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i><br><i>For NEMA 1 With Gasket, Add</i><br><i>For NEMA 12, Add</i><br><i>For 600 Amperes, Tin Plated Copper Vertical, Add</i> | 7,451.93<br>108.00<br>182.00<br>334.00<br>402.00<br>506.00<br>97.00<br>245.00<br>210.00 | 2,108.28                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 26 24 19 00-0712 EA Corner Section.....<br><i>For 20" Cabinet Depth, Add</i><br><i>For 800 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i><br><i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i><br><i>For NEMA 1 With Gasket, Add</i><br><i>For NEMA 12, Add</i><br><i>For 600 Amperes, Tin Plated Copper Vertical, Add</i> | 7,451.93<br>108.00<br>182.00<br>334.00<br>402.00<br>506.00<br>97.00<br>245.00<br>210.00 | 2,108.28                |
| <b>26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker</b> <small>(26 24 19 00-0484)</small><br>Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.  |   |                         |
| <b>26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>  |   |                         |
| 26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,665.71<br>177.65  | 296.11                  |
| 26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,853.54<br>197.04  | 328.41                  |
| 26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,158.55<br>264.91  | 441.47                  |
| 26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 4,556.32<br>349.28  | 582.07                  |
| 26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10,129.35<br>436.50   | 727.42                  |
| 26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 23,273.10<br>436.50   | 727.42                  |
| 26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,663.32<br>153.66  | 256.12                  |
| 26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,875.76<br>173.04  | 288.41                  |
| 26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 3,204.59<br>236.26  | 393.79                  |
| 26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 4,538.30<br>320.28  | 533.76                  |
| 26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 10,131.31<br>413.50   | 689.12                  |
| 26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 23,416.49<br>413.50   | 689.12                  |
| <b>26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>   |   |                         |
| 26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,623.33<br>222.29  | 370.56                  |
| 26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 3,199.26<br>245.98  | 409.94                  |
| 26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 5,218.89<br>330.56  | 550.99                  |
| 26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 8,883.95<br>436.99  | 728.34                  |
| 26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 15,870.41<br>546.76   | 911.24                  |
| 26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,640.18<br>191.96  | 319.95                  |
| 26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 3,242.34<br>216.45  | 360.71                  |
| 26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 5,283.91<br>295.81  | 493.00                  |
| 26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 8,880.51<br>400.58  | 667.58                  |
| 26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 15,890.28<br>517.34   | 862.17                  |
| <b>26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>   |   |                         |
| 26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,859.22<br>222.29  | 370.56                  |
| 26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 4,018.57<br>245.98  | 409.94                  |
| 26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 7,488.13<br>330.56  | 550.99                  |
| 26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 10,187.62<br>436.99   | 728.34                  |
| 26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20,187.15<br>546.76   | 911.24                  |
| 26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,876.07<br>191.96  | 319.95                  |
| 26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 4,061.66<br>216.45  | 360.71                  |
| 26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 7,553.14<br>295.81  | 493.00                  |
| 26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 10,184.18<br>400.58   | 667.58                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 20,207.02<br>517.34       | 862.17                  |
| <b>26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect</b> (26 24 19 00-0484)<br>Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure.<br>Line voltages of 208 V, 240 V, 480 V, and 600 V.                 |                           |                         |
| <b>26 24 19 00-0750 FVNR Starters With Fusible Disconnect</b> (26 24 19 00-0749)   |                           |                         |
| 26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect .....  | 1,365.27                  | 288.72                  |
| 26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect .....  | 1,786.53                  | 392.39                  |
| 26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect .....  | 2,917.71                  | 511.30                  |
| 26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect .....  | 4,859.06                  | 720.20                  |
| 26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect .....  | 9,535.28                  | 915.55                  |
| 26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect .....  | 23,569.01                 | 915.55                  |
| 26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect .....  | 1,376.45                  | 255.96                  |
| 26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect .....  | 1,806.98                  | 351.48                  |
| 26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect .....  | 2,979.02                  | 471.31                  |
| 26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect .....  | 4,861.09                  | 681.89                  |
| 26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect .....  | 9,514.93                  | 866.17                  |
| 26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect .....  | 23,690.19                 | 866.17                  |
| <b>26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect</b> (26 24 19 00-0749)  |                           |                         |
| 26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 2,293.85                  | 361.48                  |
| 26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 3,190.48                  | 490.54                  |
| 26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 4,888.24                  | 638.82                  |
| 26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 10,059.91                 | 902.77                  |
| 26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 16,190.70                 | 1,056.44                |
| 26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 2,327.77                  | 319.95                  |
| 26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 3,228.99                  | 439.01                  |
| 26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 4,971.12                  | 589.75                  |
| 26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 10,074.00                 | 850.78                  |
| 26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect .....   | 16,188.21                 | 996.30                  |
| <b>26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect</b> (26 24 19 00-0749)  |                           |                         |
| 26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 2,649.25                  | 361.48                  |
| 26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 4,022.37                  | 490.54                  |
| 26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 7,181.06                  | 638.82                  |
| 26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 10,537.97                 | 902.77                  |
| 26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 19,629.94                 | 1,056.44                |
| 26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 2,684.22                  | 319.95                  |
| 26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 4,060.89                  | 439.01                  |
| 26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 7,263.94                  | 589.75                  |
| 26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 10,552.06                 | 850.78                  |
| 26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect .....   | 19,627.45                 | 996.30                  |
| <b>26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit</b> (26 24 19 00-0484)<br>Note: Per section. Labor is included in basic distribution section.  |                           |                         |
| 26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit .....  | 277.54                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 11.55                     |                         |
| 26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit .....  | 338.35                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 11.55                     |                         |
| 26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit .....  | 406.86                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 13.86                     |                         |
| 26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit .....  | 526.37                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 13.86                     |                         |
| 26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit .....  | 877.93                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 16.17                     |                         |
| 26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit .....  | 160.80                    |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 9.24                      |                         |
| <b>26 24 19 00-0792 Disconnect Switch For Motor Control Centers</b> (26 24 19 00-0484)   |                           |                         |
| <b>26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center</b> (26 24 19 00-0792)<br>Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters). |                           |                         |
| 26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....   | 1,011.81                  | 222.27                  |
| 26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....  | 1,688.47                  | 246.12                  |
| 26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....   | 2,077.88                  | 331.49                  |
| 26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....  | 3,382.70                  | 436.85                  |
| 26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....  | 5,724.22                  | 546.06                  |
| 26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....  | 6,485.67                  | 546.06                  |
| 26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....  | 13,107.62                 | 683.73                  |
| <b>26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center</b> (26 24 19 00-0792)<br>Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....                                       | 951.17                    | 216.12                  |
| 26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....                                       | 1,139.58                  | 294.56                  |
| 26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....                                     | 1,549.46                  | 376.87                  |
| 26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....                                     | 2,814.46                  | 539.91                  |
| 26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....                                     | 4,875.55                  | 686.66                  |
| 26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....                                     | 10,788.46                 | 686.66                  |
| 26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....                                     | 13,341.28                 | 858.33                  |
| 26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....                                 | 19,530.96                 | 858.33                  |
| <b>26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)</b>  |                           |                         |
| 26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed .....   | 74.90                     |                         |
| 26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed .....   | 74.90                     |                         |
| 26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed .....   | 144.26                    |                         |
| 26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed .....   | 144.26                    |                         |
| 26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed .....   | 200.41                    |                         |
| 26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay .....  | 64.20                     | 17.40                   |
| <b>26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)</b>  |                           |                         |
| 26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted .....  | 138.99                    | 30.76                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 19.23                     |                         |
| 26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....   | 157.80                    | 30.76                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 24.04                     |                         |
| 26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted .....   | 128.46                    | 30.76                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 14.40                     |                         |
| 26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light .....   | 365.49                    | 104.60                  |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 63.04                     |                         |
| 26 24 19 00-0822 EA Auxiliary Contact Add Per Starter .....   | 402.14                    | 39.84                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 23.91                     |                         |
| <b>26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484)</b>   |                           |                         |
| Note: Per contact.  |                           |                         |
| 26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact.....  | 91.86                     | 19.99                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 14.40                     |                         |
| 26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact.....  | 123.17                    | 19.99                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 14.40                     |                         |
| 26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....  | 134.00                    | 19.99                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 12.02                     |                         |
| 26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact.....   | 119.72                    | 19.99                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 9.62                      |                         |
| 26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....   | 124.38                    | 19.99                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 7.25                      |                         |
| <b>26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)</b>   |                           |                         |
| 26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions .....   | 937.67                    |                         |
| <b>26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)</b>   |                           |                         |
| 26 24 19 00-0832 EA Special Cabinet Nameplate Requirements .....  | 33.29                     |                         |
| <b>26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)</b>   |                           |                         |
| 26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts.....   | 200.31                    | 38.51                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 23.10                     |                         |
| 26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay .....  | 190.29                    | 34.65                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 23.10                     |                         |
| 26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base .....   | 115.54                    | 34.65                   |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 23.10                     |                         |
| <b>26 24 19 00-0837 Motor Control Center Accessories (26 24 19 00-0484)</b>   |                           |                         |
| <b>26 24 19 00-0838 Lighting Transformer With Circuit Breaker (26 24 19 00-0837)</b>  |                           |                         |
| Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only. |                           |                         |
| 26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                     | 5,646.70                  | 491.30                  |
| 26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                   | 5,870.95                  | 510.96                  |
| 26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 6,419.63                  | 550.26                  |
| 26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 8,024.67                  | 589.57                  |
| 26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 10,716.92                 | 628.87                  |
| 26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                  | 13,135.87                 | 707.48                  |
| 26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 17,196.21                 | 786.09                  |
| 26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 10,128.19                 | 648.53                  |
| 26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 11,005.03                 | 707.48                  |
| 26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 12,576.43                 | 786.09                  |
| 26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 13,355.91                 | 864.70                  |
| 26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....                                  | 16,069.61                 | 943.31                  |
| 26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....                                    | 16,602.49                 | 1,021.92                |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

**26 24 19 00-0852 Bolt-On Lighting Panel** (26 24 19 00-0837)  
 Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.

|                  |    |  |          |          |
|------------------|----|--|----------|----------|
| 26 24 19 00-0853 | EA | 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt..... | 2,618.17 | 800.49   |
| 26 24 19 00-0854 | EA | 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt..... | 4,139.03 | 1,393.31 |
| 26 24 19 00-0855 | EA | 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt..... | 5,513.63 | 1,885.08 |
| 26 24 19 00-0856 | EA | 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt..... | 2,749.42 | 866.17   |
| 26 24 19 00-0857 | EA | 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt..... | 4,079.74 | 1,363.63 |
| 26 24 19 00-0858 | EA | 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt..... | 5,749.26 | 2,002.91 |
| 26 24 19 00-0859 | EA | 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt..... | 4,253.43 | 928.47   |
| 26 24 19 00-0860 | EA | 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt..... | 5,762.92 | 1,490.53 |
| 26 24 19 00-0861 | EA | 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt..... | 7,255.80 | 2,002.91 |
| 26 24 19 00-0862 | EA | 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt..... | 4,399.46 | 1,001.38 |
| 26 24 19 00-0863 | EA | 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt..... | 5,762.92 | 1,490.53 |
| 26 24 19 00-0864 | EA | 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt..... | 7,385.01 | 2,067.52 |

**26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker** (26 24 19 00-0837)  
 Note: For MCC lighting panel only.

|                  |    |  |        |  |
|------------------|----|--|--------|--|
| 26 24 19 00-0866 | EA | 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....      | 22.75  |  |
| 26 24 19 00-0867 | EA | 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker..... | 288.98 |  |
| 26 24 19 00-0868 | EA | 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....      | 44.47  |  |
| 26 24 19 00-0869 | EA | 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....     | 102.38 |  |
| 26 24 19 00-0870 | EA | 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....      | 119.96 |  |
| 26 24 19 00-0871 | EA | 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....     | 182.02 |  |

**26 24 19 00-0872 Blank Unit Door (BUD)** (26 24 19 00-0837)  
 Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 26 24 19 00-0873 | EA | 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....  | 77.06  |  |
| 26 24 19 00-0874 | EA | 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... | 92.47  |  |
| 26 24 19 00-0875 | EA | 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... | 138.71 |  |
| 26 24 19 00-0876 | EA | 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... | 184.95 |  |
| 26 24 19 00-0877 | EA | 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... | 277.42 |  |
| 26 24 19 00-0878 | EA | 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... | 323.65 |  |
| 26 24 19 00-0879 | EA | 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... | 369.89 |  |

**26 25 Enclosed Bus Assemblies** (26 20)

**26 25 13 Low-Voltage Busways** (26 25)

**26 25 13 00-0001 Plug-In Bus Duct** (26 25 13)  
 Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

**26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors** (26 25 13 00-0001)

|                  |    |  |          |       |
|------------------|----|--|----------|-------|
| 26 25 13 00-0003 | LF | 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....   | 287.52   | 46.15 |
|                  |    | <i>For Up To 25, Add</i>   | 71.88    |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 43.13    |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 21.56    |       |
| 26 25 13 00-0004 | LF | 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....   | 397.97   | 46.15 |
|                  |    | <i>For Up To 25, Add</i>   | 99.49    |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 59.70    |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 29.85    |       |
| 26 25 13 00-0005 | LF | 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....   | 500.48   | 61.53 |
|                  |    | <i>For Up To 25, Add</i>   | 125.12   |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 75.07    |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 37.54    |       |
| 26 25 13 00-0006 | LF | 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....   | 679.51   | 61.53 |
|                  |    | <i>For Up To 25, Add</i>   | 169.88   |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 101.93   |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 50.96    |       |
| 26 25 13 00-0007 | LF | 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors..... | 717.59   | 76.91 |
|                  |    | <i>For Up To 25, Add</i>   | 179.40   |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 107.64   |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 53.82    |       |
| 26 25 13 00-0008 | LF | 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors..... | 985.75   | 76.91 |
|                  |    | <i>For Up To 25, Add</i>   | 246.44   |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 147.86   |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 73.93    |       |
| 26 25 13 00-0009 | LF | 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors..... | 1,146.72 | 80.76 |
|                  |    | <i>For Up To 25, Add</i>   | 286.68   |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 172.01   |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 86.00    |       |
| 26 25 13 00-0010 | LF | 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....  | 1,385.74 | 83.06 |
|                  |    | <i>For Up To 25, Add</i>   | 346.44   |       |
|                  |    | <i>For &gt;25 To 50, Add</i>   | 207.86   |       |
|                  |    | <i>For &gt;50 To 100, Add</i>  | 103.93   |       |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 25 13 00-0011 LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....              | 1,700.03                  | 87.68                   |
| For Up To 25, Add   | 425.01                    |                         |
| For >25 To 50, Add  | 255.00                    |                         |
| For >50 To 100, Add   | 127.50                    |                         |
| 26 25 13 00-0012 LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....              | 1,963.68                  | 102.29                  |
| For Up To 25, Add   | 490.92                    |                         |
| For >25 To 50, Add  | 294.55                    |                         |
| For >50 To 100, Add   | 147.28                    |                         |
| 26 25 13 00-0013 LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....              | 2,267.78                  | 111.52                  |
| For Up To 25, Add   | 566.95                    |                         |
| For >25 To 50, Add  | 340.17                    |                         |
| For >50 To 100, Add   | 170.08                    |                         |
| <b>26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0001)</b> |                           |                         |
| 26 25 13 00-0015 LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....            | 448.64                    | 46.15                   |
| For Up To 25, Add   | 112.16                    |                         |
| For >25 To 50, Add  | 67.30                     |                         |
| For >50 To 100, Add   | 33.65                     |                         |
| 26 25 13 00-0016 LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....            | 638.75                    | 46.15                   |
| For Up To 25, Add   | 159.69                    |                         |
| For >25 To 50, Add  | 95.81                     |                         |
| For >50 To 100, Add   | 47.91                     |                         |
| 26 25 13 00-0017 LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....            | 722.19                    | 61.53                   |
| For Up To 25, Add   | 180.55                    |                         |
| For >25 To 50, Add  | 108.33                    |                         |
| For >50 To 100, Add   | 54.16                     |                         |
| 26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....            | 911.95                    | 61.53                   |
| For Up To 25, Add   | 227.99                    |                         |
| For >25 To 50, Add  | 136.79                    |                         |
| For >50 To 100, Add   | 68.40                     |                         |
| 26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 1,107.28                  | 76.91                   |
| For Up To 25, Add   | 276.82                    |                         |
| For >25 To 50, Add  | 166.09                    |                         |
| For >50 To 100, Add   | 83.05                     |                         |
| 26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 1,423.78                  | 76.91                   |
| For Up To 25, Add   | 355.95                    |                         |
| For >25 To 50, Add  | 213.57                    |                         |
| For >50 To 100, Add   | 106.78                    |                         |
| 26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 1,832.96                  | 79.68                   |
| For Up To 25, Add   | 458.24                    |                         |
| For >25 To 50, Add  | 274.94                    |                         |
| For >50 To 100, Add   | 137.47                    |                         |
| 26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 2,198.78                  | 83.06                   |
| For Up To 25, Add   | 549.70                    |                         |
| For >25 To 50, Add  | 329.82                    |                         |
| For >50 To 100, Add   | 164.91                    |                         |
| 26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 2,716.42                  | 86.91                   |
| For Up To 25, Add   | 679.11                    |                         |
| For >25 To 50, Add  | 407.46                    |                         |
| For >50 To 100, Add   | 203.73                    |                         |
| 26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 3,136.46                  | 102.29                  |
| For Up To 25, Add   | 784.12                    |                         |
| For >25 To 50, Add  | 470.47                    |                         |
| For >50 To 100, Add   | 235.23                    |                         |
| 26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....          | 3,630.93                  | 111.52                  |
| For Up To 25, Add   | 907.73                    |                         |
| For >25 To 50, Add  | 544.64                    |                         |
| For >50 To 100, Add   | 272.32                    |                         |
| <b>26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)</b>  |                           |                         |
| <b>26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)</b>                   |                           |                         |
| 26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....                            | 2,244.81                  | 215.35                  |
| 26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....                            | 2,340.31                  | 215.35                  |
| 26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....                            | 2,542.57                  | 292.26                  |
| 26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....                            | 2,719.67                  | 292.26                  |
| 26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....                          | 2,926.82                  | 384.55                  |
| 26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....                          | 3,210.38                  | 384.55                  |
| <b>26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)</b> |                           |                         |
| 26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....                         | 2,340.31                  | 423.01                  |
| 26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....                         | 2,560.22                  | 423.01                  |
| 26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....                         | 2,753.41                  | 576.83                  |
| 26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....                         | 3,096.84                  | 576.83                  |
| 26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....                       | 3,275.33                  | 769.11                  |
| 26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....                       | 3,719.47                  | 769.11                  |
| <b>26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)</b>                               |                           |                         |
| <b>26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)</b>  |                           |                         |

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 25 Enclosed Bus Assemblies**



| MINOR  | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|--|------------------------|----------------------|
| 26 25 13 00-0043   | EA  |     | 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 1,042.70<br>84.15      | 153.82               |
| 26 25 13 00-0044   | EA  |     | 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>             | 2,012.41<br>108.02     | 153.82               |
| <b>26 25 13 00-0045</b>  |     |     | <b>600 Volt, 3-Phase</b> <small>(26 25 13 00-0041)</small>   |                        |                      |
| 26 25 13 00-0046   | EA  |     | 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>              | 1,932.83<br>84.15      | 153.82               |
| 26 25 13 00-0047   | EA  |     | 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>             | 2,502.46<br>108.02     | 153.82               |
| <b>26 25 13 00-0048</b>  |     |     | <b>120/208 Volt, 3-Phase, 4-Wire</b> <small>(26 25 13 00-0041)</small>   |                        |                      |
| 26 25 13 00-0049   | EA  |     | 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,199.93<br>96.14      | 184.58               |
| 26 25 13 00-0050   | EA  |     | 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,439.05<br>120.17     | 184.58               |
| <b>26 25 13 00-0051</b>  |     |     | <b>277/480 Volt, 3-Phase, 4-Wire</b> <small>(26 25 13 00-0041)</small>   |                        |                      |
| 26 25 13 00-0052   | EA  |     | 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>  | 1,358.93<br>96.14      | 184.58               |
| 26 25 13 00-0053   | EA  |     | 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,061.66<br>120.17     | 184.58               |
| 26 25 13 00-0054   | EA  |     | 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 3,117.35<br>276.66     | 638.36               |
| 26 25 13 00-0055   | EA  |     | 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7,378.21<br>600.86     | 638.36               |
| 26 25 13 00-0056   | EA  |     | 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 8,415.24<br>835.99     | 1,845.86             |
| 26 25 13 00-0057   | EA  |     | 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 10,980.95<br>1,479.05  | 1,845.86             |
| <b>26 25 13 00-0058</b>  |     |     | <b>Bus Duct Plug-In Fusible Switch</b> <small>(26 25 13 00-0001)</small>   |                        |                      |
| <b>26 25 13 00-0059</b>  |     |     | <b>240 Volt, 3-Pole, 3-Fuse</b> <small>(26 25 13 00-0058)</small>  |                        |                      |
| 26 25 13 00-0060   | EA  |     | 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,040.51               | 153.82               |
| 26 25 13 00-0061   | EA  |     | 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,151.32               | 153.82               |
| 26 25 13 00-0062   | EA  |     | 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 1,578.85               | 184.58               |
| 26 25 13 00-0063   | EA  |     | 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 2,674.49               | 369.17               |
| 26 25 13 00-0064   | EA  |     | 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 6,681.49               | 830.64               |
| 26 25 13 00-0065   | EA  |     | 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 10,126.97              | 1,445.92             |
| <b>26 25 13 00-0066</b>  |     |     | <b>600 Volt, 3-Pole, 3-Fuse</b> <small>(26 25 13 00-0058)</small>  |                        |                      |
| 26 25 13 00-0067   | EA  |     | 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,071.24               | 169.21               |
| 26 25 13 00-0068   | EA  |     | 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,179.76               | 169.21               |
| 26 25 13 00-0069   | EA  |     | 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 1,583.71               | 169.21               |
| 26 25 13 00-0070   | EA  |     | 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 2,725.98               | 353.79               |
| 26 25 13 00-0071   | EA  |     | 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 6,640.40               | 799.88               |
| 26 25 13 00-0072   | EA  |     | 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 10,418.30              | 1,538.21             |
| 26 25 13 00-0073   | EA  |     | 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 16,796.23              | 1,999.68             |
| <b>26 25 13 00-0074</b>  |     |     | <b>120/208 Volt, 4-pole, 3 Fuse</b> <small>(26 25 13 00-0058)</small>  |                        |                      |
| 26 25 13 00-0075   | EA  |     | 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,200.65               | 199.97               |
| 26 25 13 00-0076   | EA  |     | 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,301.58               | 199.97               |
| 26 25 13 00-0077   | EA  |     | 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 1,758.31               | 199.97               |
| 26 25 13 00-0078   | EA  |     | 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 2,977.13               | 415.31               |
| 26 25 13 00-0079   | EA  |     | 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 7,356.72               | 922.93               |
| 26 25 13 00-0080   | EA  |     | 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 10,738.69              | 1,415.16             |
| <b>26 25 13 00-0081</b>  |     |     | <b>277/480 Volt, 4-pole, 3-Fuse</b> <small>(26 25 13 00-0058)</small>  |                        |                      |
| 26 25 13 00-0082   | EA  |     | 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,237.21               | 199.97               |
| 26 25 13 00-0083   | EA  |     | 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....   | 1,338.15               | 169.67               |
| 26 25 13 00-0084   | EA  |     | 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 1,868.24               | 230.73               |
| 26 25 13 00-0085   | EA  |     | 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 3,095.45               | 415.31               |
| 26 25 13 00-0086   | EA  |     | 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 7,356.72               | 922.93               |
| 26 25 13 00-0087   | EA  |     | 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 10,738.69              | 1,415.16             |
| 26 25 13 00-0088   | EA  |     | 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....  | 16,781.95              | 1,876.62             |
| <b>26 25 16 Low-Voltage Cablebus Systems</b> <small>(26 25)</small>  |     |     |  |                        |                      |
| <b>26 25 16 00-0001</b>  |     |     | <b>Feeder Bus Duct</b> <small>(26 25 16)</small>   |                        |                      |
| Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support. |     |     |  |                        |                      |



|                  | MINOR<br>CSI UOM DESCRIPTION  |          | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|---|----------|---------------------------|-------------------------|
| 26 25 16 00-0002 | <b>600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance</b> <small>(26 25 16 00-0001)</small><br>Note: Copper conductors.                    |          |                           |                         |
| 26 25 16 00-0003 | LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 799.62   | 64.60                     |                         |
|                  | <i>For Up To 25, Add</i>  | 199.91   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 119.94   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 59.97    |                           |                         |
| 26 25 16 00-0004 | LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 812.75   | 64.60                     |                         |
|                  | <i>For Up To 25, Add</i>  | 203.19   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 121.91   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 60.96    |                           |                         |
| 26 25 16 00-0005 | LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 1,056.26 | 64.60                     |                         |
|                  | <i>For Up To 25, Add</i>  | 264.07   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 158.44   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 79.22    |                           |                         |
| 26 25 16 00-0006 | LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 1,263.88 | 64.60                     |                         |
|                  | <i>For Up To 25, Add</i>  | 315.97   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 189.58   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 94.79    |                           |                         |
| 26 25 16 00-0007 | LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 1,541.72 | 64.60                     |                         |
|                  | <i>For Up To 25, Add</i>  | 385.43   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 231.26   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 115.63   |                           |                         |
| 26 25 16 00-0008 | LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 2,105.53 | 153.82                    |                         |
|                  | <i>For Up To 25, Add</i>  | 526.38   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 315.83   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 157.91   |                           |                         |
| 26 25 16 00-0009 | LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 2,900.82 | 153.82                    |                         |
|                  | <i>For Up To 25, Add</i>  | 725.21   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 435.12   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 217.56   |                           |                         |
| 26 25 16 00-0010 | LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 3,432.36 | 153.82                    |                         |
|                  | <i>For Up To 25, Add</i>  | 858.09   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 514.85   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 257.43   |                           |                         |
| 26 25 16 00-0011 | LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....  | 4,220.75 | 153.82                    |                         |
|                  | <i>For Up To 25, Add</i>  | 1,055.19 |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 633.11   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 316.56   |                           |                         |
| 26 25 16 00-0012 | <b>277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated</b> <small>(26 25 16 00-0001)</small><br>Note: Low impedance, copper conductors. |          |                           |                         |
| 26 25 16 00-0013 | LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 912.25   | 69.22                     |                         |
|                  | <i>For Up To 25, Add</i>  | 228.06   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 136.84   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 68.42    |                           |                         |
| 26 25 16 00-0014 | LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 930.07   | 69.22                     |                         |
|                  | <i>For Up To 25, Add</i>  | 232.52   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 139.51   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 69.76    |                           |                         |
| 26 25 16 00-0015 | LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 1,190.32 | 69.22                     |                         |
|                  | <i>For Up To 25, Add</i>  | 297.58   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 178.55   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 89.27    |                           |                         |
| 26 25 16 00-0016 | LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 1,410.60 | 69.22                     |                         |
|                  | <i>For Up To 25, Add</i>  | 352.65   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 211.59   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 105.80   |                           |                         |
| 26 25 16 00-0017 | LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 1,701.61 | 69.22                     |                         |
|                  | <i>For Up To 25, Add</i>  | 425.40   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 255.24   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 127.62   |                           |                         |
| 26 25 16 00-0018 | LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 2,606.59 | 118.45                    |                         |
|                  | <i>For Up To 25, Add</i>  | 651.65   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 390.99   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 195.49   |                           |                         |
| 26 25 16 00-0019 | LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 3,267.94 | 118.45                    |                         |
|                  | <i>For Up To 25, Add</i>  | 816.99   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 490.19   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 245.10   |                           |                         |
| 26 25 16 00-0020 | LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 3,868.20 | 219.96                    |                         |
|                  | <i>For Up To 25, Add</i>  | 967.05   |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 580.23   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 290.12   |                           |                         |
| 26 25 16 00-0021 | LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....  | 4,761.08 | 219.96                    |                         |
|                  | <i>For Up To 25, Add</i>  | 1,190.27 |                           |                         |
|                  | <i>For &gt;25 To 50, Add</i>  | 714.16   |                           |                         |
|                  | <i>For &gt;50 To 100, Add</i>   | 357.08   |                           |                         |

**26 27 Low-Voltage Distribution Equipment** (26 20)  
**26 27 13 Electricity Metering** (26 27)  
**26 27 13 00-0001 Revenue Metering** (26 27 13)

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 27 13 00-0002 Meter Socket Base</b> (26 27 13 00-0001)<br>Note: NEMA 3R.  |                           |                         |
| 26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass .....   | 311.32                    | 99.98                   |
| 26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass .....   | 327.87                    | 99.98                   |
| 26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass .....   | 428.09                    | 123.05                  |
| 26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass .....   | 432.80                    | 123.05                  |
| 26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release .....   | 793.52                    | 138.44                  |
| 26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release .....   | 1,042.11                  | 153.82                  |
| 26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release .....   | 2,483.38                  | 169.21                  |
| 26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test<br>Switch And Transformer, Socket Base ..... | 3,101.10                  | 769.11                  |
| <b>26 27 13 00-0011 Meter Device</b> (26 27 13 00-0001)<br>Note: Direct read, with 15 minute demand.  |                           |                         |
| 26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter .....   | 285.76                    | 30.76                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 18.92                     |                         |
| 26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter .....  | 780.29                    | 30.80                   |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....   | 19.25                     |                         |
| <b>26 27 13 00-0014 Current Transformer Enclosure</b> (26 27 13 00-0001)  |                           |                         |
| 26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure .....   | 655.84                    | 199.97                  |
| <b>26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing</b> (26 27 13 00-0001)   |                           |                         |
| <b>26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole</b> (26 27 13 00-0016)   |                           |                         |
| 26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....  | 1,102.30                  | 96.14                   |
| 26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....  | 1,445.87                  | 115.36                  |
| 26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....  | 1,787.66                  | 134.59                  |
| 26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....  | 2,070.59                  | 153.82                  |
| 26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....  | 2,683.60                  | 173.05                  |
| 26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....  | 2,900.48                  | 192.28                  |
| 26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....   | 3,387.81                  | 230.73                  |
| <b>26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole</b> (26 27 13 00-0016)   |                           |                         |
| 26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....  | 1,994.48                  | 96.14                   |
| 26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....  | 2,621.77                  | 115.36                  |
| 26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....  | 3,608.72                  | 153.82                  |
| 26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....  | 4,004.02                  | 173.05                  |
| 26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....  | 5,023.86                  | 192.28                  |
| <b>26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> (26 27 13 00-0016)   |                           |                         |
| 26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 1,682.39                  | 134.59                  |
| 26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 2,199.06                  | 153.82                  |
| 26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 2,683.60                  | 173.05                  |
| 26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 3,150.29                  | 192.28                  |
| 26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 3,956.02                  | 211.51                  |
| 26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 4,155.09                  | 230.73                  |
| 26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....  | 5,141.99                  | 269.19                  |
| <b>26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> (26 27 13 00-0016)   |                           |                         |
| 26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 2,570.99                  | 134.59                  |
| 26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 3,358.89                  | 153.82                  |
| 26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 4,720.52                  | 192.28                  |
| 26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 5,062.32                  | 211.51                  |
| 26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....   | 6,456.84                  | 230.73                  |
| <b>26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing</b> (26 27 13 00-0001)   |                           |                         |
| <b>26 27 13 00-0046 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole</b> (26 27 13 00-0045)   |                           |                         |
| 26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....  | 1,204.99                  | 115.36                  |
| 26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....  | 1,568.19                  | 134.59                  |
| 26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....  | 1,929.62                  | 153.82                  |
| 26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....  | 2,237.51                  | 173.05                  |
| 26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....  | 2,739.89                  | 192.28                  |
| 26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....  | 2,956.79                  | 211.51                  |
| 26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....   | 3,640.40                  | 249.96                  |
| <b>26 27 13 00-0054 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole</b> (26 27 13 00-0045)   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 2,104.31                  | 115.36                  |
| 26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 2,767.29                  | 134.59                  |
| 26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 3,986.18                  | 173.05                  |
| 26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 4,381.50                  | 192.28                  |
| 26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 5,294.33                  | 211.51                  |
| <b>26 27 13 00-0060 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity,<br/>2 Pole <small>(26 27 13 00-0045)</small></b>   |                           |                         |
| 26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 1,785.11                  | 153.82                  |
| 26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 2,308.92                  | 173.05                  |
| 26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 2,846.99                  | 192.28                  |
| 26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 3,313.70                  | 211.51                  |
| 26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 4,155.15                  | 230.73                  |
| 26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 4,354.14                  | 249.96                  |
| 26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....             | 5,412.48                  | 288.41                  |
| <b>26 27 13 00-0068 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting<br/>Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b> |                           |                         |
| 26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 2,698.70                  | 153.82                  |
| 26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 3,540.12                  | 173.05                  |
| 26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 5,062.36                  | 211.51                  |
| 26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 5,297.07                  | 230.73                  |
| 26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 6,709.48                  | 249.96                  |
| <b>26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small></b>                        |                           |                         |
| <b>26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity,<br/>2 Pole <small>(26 27 13 00-0074)</small></b>   |                           |                         |
| 26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 1,102.30                  | 96.14                   |
| 26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 1,445.87                  | 115.36                  |
| 26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 2,070.59                  | 153.82                  |
| 26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 2,683.60                  | 173.05                  |
| 26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 3,310.88                  | 192.28                  |
| <b>26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting<br/>Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b> |                           |                         |
| 26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 1,994.47                  | 96.14                   |
| 26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 2,621.76                  | 115.36                  |
| 26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 3,787.13                  | 153.82                  |
| 26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 4,182.45                  | 173.05                  |
| 26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....            | 5,023.86                  | 192.28                  |
| <b>26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity,<br/>2 Pole <small>(26 27 13 00-0074)</small></b>   |                           |                         |
| 26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 1,682.39                  | 134.59                  |
| 26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 2,199.06                  | 153.82                  |
| 26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 3,150.29                  | 192.28                  |
| 26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 3,956.02                  | 211.51                  |
| 26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....              | 4,155.09                  | 230.73                  |
| <b>26 27 13 00-0093 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting<br/>Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b> |                           |                         |
| 26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 2,571.01                  | 134.59                  |
| 26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 3,358.89                  | 153.82                  |
| 26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 4,720.52                  | 192.28                  |
| 26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 5,062.32                  | 211.51                  |
| 26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 6,456.90                  | 230.73                  |
| <b>26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small></b>                        |                           |                         |
| <b>26 27 13 00-0100 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity,<br/>2 Pole <small>(26 27 13 00-0099)</small></b>   |                           |                         |
| 26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 1,204.99                  | 115.36                  |
| 26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 1,568.19                  | 134.59                  |
| 26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 2,237.51                  | 173.05                  |
| 26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 2,918.33                  | 192.28                  |
| 26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....              | 3,313.66                  | 211.51                  |
| <b>26 27 13 00-0106 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting<br/>Capacity, 2 Pole <small>(26 27 13 00-0099)</small></b> |                           |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....          | 2,104.30                  | 115.36                  |
| 26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....          | 2,767.27                  | 134.59                  |
| 26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....          | 3,807.74                  | 173.05                  |
| 26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....          | 4,203.06                  | 192.28                  |
| 26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....          | 5,294.29                  | 211.51                  |
| <b>26 27 13 00-0112 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0099)</small>     |                           |                         |
| 26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 1,785.09                  | 153.82                  |
| 26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 2,308.89                  | 173.05                  |
| 26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 3,313.66                  | 211.51                  |
| 26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 4,155.09                  | 230.73                  |
| 26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....            | 4,354.14                  | 249.96                  |
| <b>26 27 13 00-0118 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole</b> <small>(26 27 13 00-0099)</small>   |                           |                         |
| 26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....          | 2,698.68                  | 153.82                  |
| 26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....          | 3,540.09                  | 173.05                  |
| 26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....          | 5,062.32                  | 211.51                  |
| 26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....          | 5,297.07                  | 230.73                  |
| 26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....          | 6,709.48                  | 249.96                  |
| <b>26 27 13 00-0124 Watt/Hour Meters</b> <small>(26 27 13)</small>   |                           |                         |
| 26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....  | 1,195.89                  | 92.29                   |
| 26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure.....                                    | 3,568.48                  | 184.58                  |
| 26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure .....  | 1,923.11                  | 138.44                  |
| 26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure .....           | 2,330.63                  | 138.44                  |
| 26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....                                    | 1,982.97                  | 138.44                  |
| 26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure .....   | 1,330.81                  | 127.67                  |
| 26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure.....  | 2,280.38                  | 230.73                  |
| <b>26 27 13 00-0132 Watt/Hour Meter Systems</b> <small>(26 27 13)</small>  |                           |                         |
| Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure. |                           |                         |
| <b>26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker</b> <small>(26 27 13 00-0132)</small>                                      |                           |                         |
| 26 27 13 00-0134 EA 400 Amperes System; 200 Amperes M-90 Meter And Enclosure .....   | 5,982.84                  | 923.08                  |
| 26 27 13 00-0135 EA 600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure.....   | 6,944.56                  | 923.08                  |
| <b>26 27 13 00-0136 Watt/Hour Meter System With Main Breaker</b> <small>(26 27 13 00-0132)</small>   |                           |                         |
| 26 27 13 00-0137 EA 400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure .....                               | 10,205.31                 | 923.08                  |
| 26 27 13 00-0138 EA 600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure .....                               | 12,302.40                 | 923.08                  |
| 26 27 13 00-0139 EA 800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure .....                               | 13,191.77                 | 923.08                  |
| <b>26 27 16 Electrical Cabinets and Enclosures</b> <small>(26 27)</small>  |                           |                         |
| Note: Can be used as enclosure or pull/junction boxes.   |                           |                         |
| <b>26 27 16 00-0001 NEMA 1 Enclosures, Lockable</b> <small>(26 27 16)</small>  |                           |                         |
| <b>26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0001)</small>                                 |                           |                         |
| <b>26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0002)</small>                       |                           |                         |
| 26 27 16 00-0004 EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 93.57                     | 30.76                   |
| 26 27 16 00-0005 EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 104.63                    | 33.84                   |
| 26 27 16 00-0006 EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 115.78                    | 36.91                   |
| 26 27 16 00-0007 EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 135.16                    | 43.07                   |
| 26 27 16 00-0008 EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....   | 146.86                    | 46.15                   |
| 26 27 16 00-0009 EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 159.31                    | 49.23                   |
| 26 27 16 00-0010 EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....   | 158.93                    | 49.23                   |
| 26 27 16 00-0011 EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 171.65                    | 52.30                   |
| 26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....   | 184.94                    | 55.38                   |
| 26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 240.78                    | 73.84                   |
| 26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....   | 291.92                    | 89.22                   |
| 26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....   | 277.97                    | 86.14                   |
| <b>26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures</b> <small>(26 27 16 00-0002)</small>                       |                           |                         |
| 26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 116.53                    | 36.91                   |
| 26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 140.67                    | 43.07                   |
| 26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....   | 168.33                    | 52.30                   |
| 26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 181.34                    | 55.38                   |
| 26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 194.58                    | 58.45                   |
| 26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 208.36                    | 61.53                   |
| 26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 265.45                    | 79.99                   |
| 26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 322.51                    | 98.44                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 311.22                    | 95.37                   |
| 26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 404.77                    | 123.05                  |
| 26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 511.89                    | 141.52                  |
| 26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 581.27                    | 153.82                  |
| 26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 643.30                    | 163.05                  |
| 26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....  | 697.64                    | 169.21                  |
| 26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L) ..... | 481.16                    | 123.05                  |
| <b>26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small></b>                        |                           |                         |
| <b>26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small></b>              |                           |                         |
| 26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 64.62                     | 21.54                   |
| 26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 92.36                     | 30.76                   |
| 26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 102.79                    | 33.84                   |
| <b>26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small></b>              |                           |                         |
| 26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 72.51                     | 24.61                   |
| 26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 90.02                     | 30.76                   |
| 26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 100.30                    | 33.84                   |
| 26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 110.73                    | 36.91                   |
| 26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 129.21                    | 43.07                   |
| 26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 140.05                    | 46.15                   |
| 26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 151.38                    | 49.23                   |
| 26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 151.02                    | 49.23                   |
| 26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 162.78                    | 52.30                   |
| 26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 174.84                    | 55.38                   |
| 26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 229.38                    | 73.84                   |
| 26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 284.63                    | 92.29                   |
| 26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 264.35                    | 86.14                   |
| 26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 342.02                    | 110.75                  |
| 26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 483.42                    | 138.44                  |
| <b>26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small></b>              |                           |                         |
| 26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 111.25                    | 36.91                   |
| 26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 122.37                    | 39.99                   |
| 26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 141.07                    | 46.15                   |
| 26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 160.12                    | 52.30                   |
| 26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 172.02                    | 55.38                   |
| 26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 184.05                    | 58.45                   |
| 26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 196.49                    | 61.53                   |
| 26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 252.17                    | 79.99                   |
| 26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 309.91                    | 98.44                   |
| 26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 295.42                    | 95.37                   |
| 26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 383.66                    | 123.05                  |
| 26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 473.27                    | 141.52                  |
| 26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 538.36                    | 153.82                  |
| 26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 579.81                    | 163.05                  |
| 26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 629.79                    | 169.21                  |
| <b>26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small></b>              |                           |                         |
| 26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 160.12                    | 52.30                   |
| 26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 216.67                    | 67.68                   |
| 26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 275.48                    | 86.14                   |
| 26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 342.29                    | 107.68                  |
| 26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 327.96                    | 104.60                  |
| 26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 406.09                    | 129.21                  |
| 26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 454.61                    | 147.67                  |
| 26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 520.35                    | 156.89                  |
| 26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 593.46                    | 169.21                  |
| 26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 630.68                    | 178.43                  |
| 26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 661.20                    | 184.58                  |
| 26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 676.34                    | 184.58                  |
| <b>26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small></b>             |                           |                         |
| 26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 371.33                    | 116.90                  |
| 26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 487.21                    | 150.74                  |
| 26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 496.72                    | 159.98                  |
| 26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 627.37                    | 172.28                  |
| 26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 718.37                    | 190.74                  |
| 26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 790.10                    | 196.89                  |
| 26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 840.94                    | 206.12                  |
| <b>26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small></b>             |                           |                         |
| 26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....   | 537.72                    | 166.13                  |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 27 Low-Voltage Distribution Equipment**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 540.35                    | 175.36                  |
| 26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 690.42                    | 190.74                  |
| 26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 784.63                    | 209.19                  |
| 26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 872.57                    | 218.43                  |
| 26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....  | 919.01                    | 227.66                  |
| <b>26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)</b>   |                           |                         |
| <b>26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)</b>                         |                           |                         |
| 26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12)..... | 1,283.73                  | 135.37                  |
| <b>26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)</b>   |                           |                         |
| Note: Dust-tight enclosures.  |                           |                         |
| <b>26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)</b>  |                           |                         |
| <b>26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)</b>                              |                           |                         |
| 26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....  | 124.53                    | 24.61                   |
| 26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....  | 162.97                    | 33.84                   |
| 26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....  | 202.16                    | 43.07                   |
| 26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....   | 218.64                    | 46.15                   |
| 26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....   | 244.29                    | 49.23                   |
| 26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....  | 262.83                    | 52.30                   |
| <b>26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)</b>                              |                           |                         |
| 26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....  | 180.63                    | 36.91                   |
| 26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....  | 198.71                    | 39.99                   |
| <b>26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)</b>   |                           |                         |
| <b>26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)</b>                               |                           |                         |
| 26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 251.08                    | 24.61                   |
| 26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 302.42                    | 33.84                   |
| 26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 341.60                    | 36.91                   |
| 26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 391.07                    | 43.07                   |
| 26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....  | 402.75                    | 46.15                   |
| 26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 474.14                    | 49.23                   |
| 26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 508.95                    | 52.30                   |
| 26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 577.95                    | 55.38                   |
| <b>26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)</b>                               |                           |                         |
| 26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 366.97                    | 36.91                   |
| 26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 414.35                    | 39.99                   |
| 26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 452.38                    | 46.15                   |
| 26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 535.29                    | 55.38                   |
| 26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 581.71                    | 61.53                   |
| 26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 806.25                    | 79.99                   |
| 26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 1,249.14                  | 123.05                  |
| 26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 1,630.57                  | 141.52                  |
| 26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 1,836.74                  | 153.82                  |
| <b>26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)</b>                               |                           |                         |
| 26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 1,702.90                  | 156.89                  |
| 26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 1,959.17                  | 169.21                  |
| 26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 2,151.39                  | 178.43                  |
| 26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 2,368.52                  | 184.58                  |
| 26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....   | 2,336.64                  | 184.58                  |
| <b>26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)</b>                          |                           |                         |
| <b>26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)</b>                |                           |                         |
| 26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....                              | 7,356.03                  | 249.96                  |
| <b>26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)</b>               |                           |                         |
| 26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....                             | 7,432.91                  | 276.88                  |
| 26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....                             | 8,521.34                  | 296.11                  |
| 26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....                             | 9,809.63                  | 369.17                  |
| 26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....                             | 10,958.91                 | 435.32                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 27 16 00-0146</b> 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>   |                           |                         |
| 26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....                               | 7,960.43                  | 435.32                  |
| 26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....                               | 8,868.52                  | 461.46                  |
| 26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....                               | 10,065.61                 | 492.23                  |
| 26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....                               | 11,095.79                 | 492.23                  |
| <b>26 27 16 00-0151</b> NEMA 3 Enclosures, Lockable <small>(26 27 16)</small><br>Note: Can be used underground or encased in concrete. |                           |                         |
| <b>26 27 16 00-0152</b> 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>                |                           |                         |
| 26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 349.91                    | 107.68                  |
| <b>26 27 16 00-0154</b> 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>                |                           |                         |
| 26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 371.20                    | 107.68                  |
| 26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 459.51                    | 111.52                  |
| 26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 474.00                    | 111.52                  |
| 26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 581.43                    | 115.36                  |
| <b>26 27 16 00-0159</b> 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>                |                           |                         |
| 26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 455.59                    | 111.52                  |
| 26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 493.48                    | 111.52                  |
| 26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 513.90                    | 115.36                  |
| 26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 630.28                    | 115.36                  |
| 26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 690.73                    | 123.05                  |
| 26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 742.53                    | 130.75                  |
| 26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 770.21                    | 130.75                  |
| 26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 904.07                    | 134.59                  |
| 26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 976.51                    | 138.44                  |
| 26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 1,316.73                  | 153.82                  |
| <b>26 27 16 00-0170</b> 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>                |                           |                         |
| 26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 664.19                    | 119.21                  |
| 26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 828.17                    | 134.59                  |
| 26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 959.48                    | 138.44                  |
| 26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 1,096.02                  | 142.29                  |
| 26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 1,161.31                  | 142.29                  |
| 26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 1,316.38                  | 153.82                  |
| 26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 1,519.92                  | 173.05                  |
| 26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 1,433.50                  | 165.36                  |
| 26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 2,779.25                  | 307.65                  |
| 26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 4,731.75                  | 384.55                  |
| <b>26 27 16 00-0181</b> 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>                |                           |                         |
| 26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 1,173.67                  | 146.13                  |
| 26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 1,749.55                  | 192.28                  |
| 26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 1,776.22                  | 192.28                  |
| 26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 2,422.04                  | 288.41                  |
| 26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 3,149.62                  | 307.65                  |
| 26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....  | 7,856.80                  | 538.38                  |
| <b>26 27 16 00-0188</b> 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>               |                           |                         |
| 26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 4,185.30                  | 384.55                  |
| <b>26 27 16 00-0190</b> 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>               |                           |                         |
| 26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 6,364.20                  | 461.46                  |
| 26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....   | 5,258.23                  | 423.01                  |
| <b>26 27 16 00-0193</b> NEMA 3R Enclosures, Lockable <small>(26 27 16)</small><br>Note: Rain-tight enclosures.                         |                           |                         |
| <b>26 27 16 00-0194</b> Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>                            |                           |                         |
| <b>26 27 16 00-0195</b> 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>                  |                           |                         |
| 26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....   | 122.73                    | 30.76                   |
| 26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....   | 135.47                    | 33.84                   |
| 26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....   | 196.94                    | 36.91                   |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 27 16 00-0199 |     |     | <b>6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0194)  |                        |                      |
| 26 27 16 00-0200 | EA  |     | 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 247.81                 | 46.15                |
| 26 27 16 00-0201 | EA  |     | 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 277.12                 | 52.30                |
| 26 27 16 00-0202 | EA  |     | 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 324.37                 | 58.45                |
| 26 27 16 00-0203 | EA  |     | 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 350.21                 | 61.53                |
| 26 27 16 00-0204 | EA  |     | 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 455.94                 | 79.99                |
| 26 27 16 00-0205 | EA  |     | 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 545.98                 | 98.44                |
| 26 27 16 00-0206 | EA  |     | 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 626.51                 | 123.05               |
| 26 27 16 00-0207 |     |     | <b>8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0194)  |                        |                      |
| 26 27 16 00-0208 | EA  |     | 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 943.39                 | 156.89               |
| 26 27 16 00-0209 | EA  |     | 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 1,044.98               | 169.21               |
| 26 27 16 00-0210 | EA  |     | 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 1,173.07               | 178.43               |
| 26 27 16 00-0211 | EA  |     | 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 1,232.98               | 184.58               |
| 26 27 16 00-0212 |     |     | <b>10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0194) |                        |                      |
| 26 27 16 00-0213 | EA  |     | 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,168.74               | 190.74               |
| 26 27 16 00-0214 | EA  |     | 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,320.23               | 215.35               |
| 26 27 16 00-0215 | EA  |     | 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,461.71               | 238.43               |
| 26 27 16 00-0216 | EA  |     | 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,610.11               | 263.04               |
| 26 27 16 00-0217 | EA  |     | 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,753.12               | 286.11               |
| 26 27 16 00-0218 | EA  |     | 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 768.07                 | 150.74               |
| 26 27 16 00-0219 | EA  |     | 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,168.74               | 190.74               |
| 26 27 16 00-0220 | EA  |     | 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,376.02               | 196.89               |
| 26 27 16 00-0221 | EA  |     | 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,732.73               | 215.35               |
| 26 27 16 00-0222 |     |     | <b>12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0194) |                        |                      |
| 26 27 16 00-0223 | EA  |     | 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,124.72               | 152.29               |
| 26 27 16 00-0224 | EA  |     | 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,261.34               | 170.74               |
| 26 27 16 00-0225 | EA  |     | 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,396.41               | 189.20               |
| 26 27 16 00-0226 | EA  |     | 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,544.15               | 209.19               |
| 26 27 16 00-0227 | EA  |     | 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,680.76               | 227.66               |
| 26 27 16 00-0228 | EA  |     | 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 840.38                 | 113.83               |
| 26 27 16 00-0229 | EA  |     | 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,124.72               | 152.29               |
| 26 27 16 00-0230 | EA  |     | 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,261.34               | 170.74               |
| 26 27 16 00-0231 | EA  |     | 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,484.30               | 199.97               |
| 26 27 16 00-0232 | EA  |     | 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,680.76               | 227.66               |
| 26 27 16 00-0233 | EA  |     | 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,599.68               | 224.58               |
| 26 27 16 00-0234 | EA  |     | 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,680.76               | 227.66               |
| 26 27 16 00-0235 | EA  |     | 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,768.85               | 233.81               |
| 26 27 16 00-0236 | EA  |     | 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 1,966.47               | 246.12               |
| 26 27 16 00-0237 | EA  |     | 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....                  | 2,130.51               | 258.42               |
| 26 27 16 00-0238 |     |     | <b>Screw Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0193)             |                        |                      |
| 26 27 16 00-0239 |     |     | <b>4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0238)   |                        |                      |
| 26 27 16 00-0240 | EA  |     | 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 87.31                  | 24.61                |
| 26 27 16 00-0241 | EA  |     | 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 105.93                 | 30.76                |
| 26 27 16 00-0242 | EA  |     | 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 116.91                 | 33.84                |
| 26 27 16 00-0243 | EA  |     | 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 129.40                 | 36.91                |
| 26 27 16 00-0244 | EA  |     | 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 150.35                 | 43.07                |
| 26 27 16 00-0245 | EA  |     | 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 163.56                 | 46.15                |
| 26 27 16 00-0246 | EA  |     | 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 177.83                 | 49.23                |
| 26 27 16 00-0247 | EA  |     | 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 177.12                 | 49.23                |
| 26 27 16 00-0248 | EA  |     | 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 193.04                 | 52.30                |
| 26 27 16 00-0249 | EA  |     | 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 207.31                 | 55.38                |
| 26 27 16 00-0250 | EA  |     | 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 314.14                 | 86.14                |
| 26 27 16 00-0251 | EA  |     | 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                   | 417.46                 | 110.75               |
| 26 27 16 00-0252 |     |     | <b>6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures</b> (26 27 16 00-0238)   |                        |                      |
| 26 27 16 00-0253 | EA  |     | 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                      | 122.36                 | 36.91                |
| 26 27 16 00-0254 | EA  |     | 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                      | 165.46                 | 46.15                |
| 26 27 16 00-0255 | EA  |     | 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 187.46                 | 52.30                |
| 26 27 16 00-0256 | EA  |     | 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 202.70                 | 55.38                |
| 26 27 16 00-0257 | EA  |     | 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                     | 201.65                 | 55.38                |
| 26 27 16 00-0258 | EA  |     | 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 217.75                 | 58.45                |
| 26 27 16 00-0259 | EA  |     | 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 233.97                 | 61.53                |
| 26 27 16 00-0260 | EA  |     | 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 305.24                 | 79.99                |
| 26 27 16 00-0261 | EA  |     | 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 352.60                 | 95.37                |
| 26 27 16 00-0262 | EA  |     | 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 468.97                 | 123.05               |
| 26 27 16 00-0263 | EA  |     | 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 490.95                 | 132.29               |
| 26 27 16 00-0264 | EA  |     | 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 557.66                 | 141.52               |
| 26 27 16 00-0265 | EA  |     | 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....                    | 626.14                 | 153.82               |



|                                     |           |           |
|-------------------------------------|-----------|-----------|
| <b>Electrical</b>                   | <b>26</b> |           |
| Low-Voltage Electrical Distribution | 26 20     | <b>26</b> |
| Low-Voltage Distribution Equipment  | 26 27     |           |

|                  | MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|------------------|-----|-----|--|------------------------|----------------------|
| 26 27 16 00-0266 |                  |     |     | <b>8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures</b> <small>(26 27 16 00-0238)</small>  |                        |                      |
|                  | 26 27 16 00-0267 | EA  |     | 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 261.47                 | 67.68                |
|                  | 26 27 16 00-0268 | EA  |     | 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 381.03                 | 104.60               |
|                  | 26 27 16 00-0269 | EA  |     | 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 518.59                 | 135.37               |
|                  | 26 27 16 00-0270 | EA  |     | 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 617.17                 | 156.89               |
|                  | 26 27 16 00-0271 | EA  |     | 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 695.31                 | 169.21               |
|                  | 26 27 16 00-0272 | EA  |     | 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 769.04                 | 178.43               |
| 26 27 16 00-0273 |                  |     |     | <b>10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures</b> <small>(26 27 16 00-0238)</small> |                        |                      |
|                  | 26 27 16 00-0274 | EA  |     | 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 572.63                 | 150.74               |
|                  | 26 27 16 00-0275 | EA  |     | 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 766.25                 | 190.74               |
|                  | 26 27 16 00-0276 | EA  |     | 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 836.25                 | 196.89               |
| 26 27 16 00-0277 |                  |     |     | <b>12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures</b> <small>(26 27 16 00-0238)</small> |                        |                      |
|                  | 26 27 16 00-0278 | EA  |     | 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 845.95                 | 209.19               |
|                  | 26 27 16 00-0279 | EA  |     | 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 1,155.51               | 227.66               |
|                  | 26 27 16 00-0280 | EA  |     | 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 1,193.70               | 233.81               |
|                  | 26 27 16 00-0281 | EA  |     | 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....                                | 1,386.32               | 246.12               |
| 26 27 16 00-0282 |                  |     |     | <b>NEMA 4 Enclosures, Lockable</b> <small>(26 27 16)</small><br>Note: Water-tight enclosures.        |                        |                      |
| 26 27 16 00-0283 |                  |     |     | <b>Hinge Cover, Painted Steel NEMA 4 Enclosures</b> <small>(26 27 16 00-0282)</small>                |                        |                      |
|                  | 26 27 16 00-0284 | EA  |     | 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                       | 129.43                 | 21.54                |
|                  | 26 27 16 00-0285 | EA  |     | 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                       | 151.64                 | 26.15                |
|                  | 26 27 16 00-0286 | EA  |     | 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                     | 189.92                 | 33.84                |
|                  | 26 27 16 00-0287 | EA  |     | 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                       | 181.33                 | 33.84                |
|                  | 26 27 16 00-0288 | EA  |     | 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                      | 242.70                 | 46.15                |
|                  | 26 27 16 00-0289 | EA  |     | 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                     | 301.57                 | 55.38                |
|                  | 26 27 16 00-0290 | EA  |     | 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                      | 279.02                 | 52.30                |
|                  | 26 27 16 00-0291 | EA  |     | 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                     | 325.50                 | 61.53                |
|                  | 26 27 16 00-0292 | EA  |     | 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                     | 382.39                 | 70.75                |
|                  | 26 27 16 00-0293 | EA  |     | 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....                                     | 464.82                 | 89.22                |
| 26 27 16 00-0294 |                  |     |     | <b>Clamp Cover, Painted Steel NEMA 4 Enclosures</b> <small>(26 27 16 00-0282)</small>                |                        |                      |
|                  | 26 27 16 00-0295 | EA  |     | 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure .....                                       | 119.45                 | 21.54                |
|                  | 26 27 16 00-0296 | EA  |     | 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure .....                                       | 171.38                 | 33.84                |
| 26 27 16 00-0297 |                  |     |     | <b>Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures</b> <small>(26 27 16 00-0282)</small>             |                        |                      |
|                  | 26 27 16 00-0298 | EA  |     | 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....                                   | 150.95                 | 29.53                |
|                  | 26 27 16 00-0299 | EA  |     | 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....                                   | 160.60                 | 32.00                |
|                  | 26 27 16 00-0300 | EA  |     | 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....                                  | 198.11                 | 41.84                |
|                  | 26 27 16 00-0301 | EA  |     | 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....                                 | 230.81                 | 46.15                |
|                  | 26 27 16 00-0302 | EA  |     | 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure .....                                       | 297.73                 | 58.45                |
|                  | 26 27 16 00-0303 | EA  |     | 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure .....                                       | 348.25                 | 69.22                |
|                  | 26 27 16 00-0304 | EA  |     | 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure .....                                      | 495.59                 | 110.75               |
| 26 27 16 00-0305 |                  |     |     | <b>NEMA 4X Enclosures, Lockable</b> <small>(26 27 16)</small><br>Note: Water-tight enclosures.       |                        |                      |
| 26 27 16 00-0306 |                  |     |     | <b>Clamp Cover, Aluminum NEMA 4X Enclosures</b> <small>(26 27 16 00-0305)</small>                    |                        |                      |
|                  | 26 27 16 00-0307 | EA  |     | 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure .....   | 250.82                 | 24.61                |
|                  | 26 27 16 00-0308 | EA  |     | 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....   | 297.50                 | 33.84                |
|                  | 26 27 16 00-0309 | EA  |     | 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....  | 378.30                 | 46.15                |
|                  | 26 27 16 00-0310 | EA  |     | 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure .....   | 459.02                 | 55.38                |
|                  | 26 27 16 00-0311 | EA  |     | 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....   | 566.85                 | 70.75                |
|                  | 26 27 16 00-0312 | EA  |     | 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....   | 671.49                 | 89.22                |
| 26 27 16 00-0313 |                  |     |     | <b>Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures</b> <small>(26 27 16 00-0305)</small>         |                        |                      |
|                  | 26 27 16 00-0314 | EA  |     | 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                               | 344.38                 | 21.54                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 46.49                  |                      |
|                  | 26 27 16 00-0315 | EA  |     | 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                               | 448.70                 | 30.76                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 59.49                  |                      |
|                  | 26 27 16 00-0316 | EA  |     | 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                               | 508.16                 | 33.84                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 67.77                  |                      |
|                  | 26 27 16 00-0317 | EA  |     | 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                               | 581.08                 | 36.91                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 78.21                  |                      |
|                  | 26 27 16 00-0318 | EA  |     | 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                              | 713.89                 | 46.15                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 95.76                  |                      |
|                  | 26 27 16 00-0319 | EA  |     | 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                             | 1,002.33               | 58.45                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 136.99                 |                      |
|                  | 26 27 16 00-0320 | EA  |     | 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....                             | 1,248.98               | 70.75                |
|                  |                  |     |     | <i>For 316 Stainless Steel, Add</i>  | 171.53                 |                      |

|              |  |
|--------------|--|
| <b>26</b>    | <b>Electrical</b>                          |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b> |
| <b>26 27</b> | <b>Low-Voltage Distribution Equipment</b>  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....<br><i>For 316 Stainless Steel, Add</i>            | 1,506.79<br>205.40        | 89.22                   |
| <b>26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures</b> <small>(26 27 16 00-0305)</small><br>Note: NEMA 3R, 4, 4X and 12 rated.  |                           |                         |
| 26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 166.69                    | 33.84                   |
| 26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 187.34                    | 36.91                   |
| 26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 214.62                    | 43.07                   |
| 26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....   | 233.10                    | 46.15                   |
| 26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 269.00                    | 52.30                   |
| 26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....   | 253.88                    | 52.30                   |
| 26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 295.12                    | 58.45                   |
| 26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 369.15                    | 70.75                   |
| 26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 473.41                    | 96.91                   |
| 26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....                                       | 613.81                    | 139.51                  |
| 26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 178.58                    | 33.84                   |
| 26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 201.39                    | 36.91                   |
| 26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 229.74                    | 43.07                   |
| 26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 251.45                    | 46.15                   |
| 26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 288.44                    | 52.30                   |
| 26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 272.25                    | 52.30                   |
| 26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 320.03                    | 58.45                   |
| 26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 382.12                    | 70.75                   |
| 26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 500.42                    | 96.91                   |
| 26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 642.96                    | 139.51                  |
| <b>26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures</b> <small>(26 27 16 00-0305)</small><br>Note: NEMA 3R, 4, 4X and 12 rated. |                           |                         |
| 26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....   | 200.18                    | 33.84                   |
| 26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....   | 214.35                    | 36.91                   |
| 26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....   | 243.77                    | 43.07                   |
| 26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 263.34                    | 46.15                   |
| 26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....                                       | 311.13                    | 52.30                   |
| 26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....  | 287.37                    | 52.30                   |
| 26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....                                       | 351.35                    | 58.45                   |
| 26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....                                       | 417.77                    | 70.75                   |
| 26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....                                       | 515.54                    | 96.91                   |
| 26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....                                      | 668.88                    | 139.51                  |
| 26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 208.82                    | 33.84                   |
| 26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 230.54                    | 36.91                   |
| 26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 258.89                    | 43.07                   |
| 26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 279.53                    | 46.15                   |
| 26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 332.74                    | 52.30                   |
| 26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....   | 305.72                    | 52.30                   |
| 26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 374.04                    | 58.45                   |
| 26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 428.57                    | 70.75                   |
| 26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....  | 551.17                    | 96.91                   |
| 26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....                                       | 706.70                    | 139.51                  |
| <b>26 27 16 00-0364 NEMA 7/9 Enclosures, Lockable</b> <small>(26 27 16)</small><br>Note: Nominal inside dimensions.                            |                           |                         |
| <b>26 27 16 00-0365 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>     |                           |                         |
| 26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>   | 1,384.15<br>54.95         | 173.05                  |
| 26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>   | 1,128.62<br>102.39        | 184.58                  |
| 26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 2,124.24<br>141.19        | 207.66                  |
| <b>26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>     |                           |                         |
| 26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>   | 1,901.24<br>71.79         | 207.66                  |
| 26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 2,446.92<br>141.19        | 213.43                  |
| 26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 2,510.20<br>108.00        | 230.73                  |
| 26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 2,572.88<br>126.36        | 230.73                  |
| 26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 3,617.48<br>165.78        | 288.41                  |
| 26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 3,403.79<br>103.51        | 259.57                  |
| 26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 3,531.67<br>154.88        | 288.41                  |



| MINOR   |  | TOTAL DIRECT        |           | DEMOLITION |           |
|---|--|---------------------|-----------|------------|-----------|
| CSI   | UOM DESCRIPTION  | UNIT COST           | UNIT COST | UNIT COST  | UNIT COST |
| 26 27 16 00-0377  | EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 5,494.80<br>208.37  |           | 519.15     |           |
| 26 27 16 00-0378  | EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 4,327.50<br>202.88  |           | 346.09     |           |
| 26 27 16 00-0379  | EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 5,744.88<br>186.26  |           | 576.83     |           |
| 26 27 16 00-0380  | EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 6,824.09<br>302.80  |           | 576.83     |           |
| <b>26 27 16 00-0381</b>   | <b>8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>      |                     |           |            |           |
| 26 27 16 00-0382  | EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>   | 2,924.72<br>108.00  |           | 259.57     |           |
| 26 27 16 00-0383  | EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 2,944.20<br>126.36  |           | 259.57     |           |
| 26 27 16 00-0384  | EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 3,315.18<br>165.78  |           | 259.57     |           |
| 26 27 16 00-0385  | EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 3,673.83<br>103.51  |           | 288.41     |           |
| 26 27 16 00-0386  | EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 5,394.31<br>154.88  |           | 519.15     |           |
| 26 27 16 00-0387  | EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 6,565.67<br>208.37  |           | 634.52     |           |
| 26 27 16 00-0388  | EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 10,179.06<br>313.37 |           | 749.88     |           |
| 26 27 16 00-0389  | EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 5,946.07<br>202.88  |           | 634.52     |           |
| 26 27 16 00-0390  | EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 6,098.74<br>186.26  |           | 634.52     |           |
| 26 27 16 00-0391  | EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 8,950.39<br>279.20  |           | 692.20     |           |
| 26 27 16 00-0392  | EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 7,426.35<br>302.80  |           | 634.52     |           |
| 26 27 16 00-0393  | EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 9,836.48<br>442.78  |           | 692.20     |           |
| 26 27 16 00-0394  | EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 9,771.67<br>590.29  |           | 692.20     |           |
| 26 27 16 00-0395  | EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 15,089.41<br>737.75 |           | 922.93     |           |
| 26 27 16 00-0396  | EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 11,509.83<br>685.98 |           | 749.88     |           |
| 26 27 16 00-0397  | EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i>  | 20,743.03<br>939.10 |           | 1,153.66   |           |
| <b>26 27 16 00-0398</b>   | <b>10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>     |                     |           |            |           |
| 26 27 16 00-0399  | EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 10,571.79<br>313.37 |           | 749.88     |           |
| 26 27 16 00-0400  | EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 9,732.63<br>279.20  |           | 692.20     |           |
| 26 27 16 00-0401  | EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 10,601.02<br>442.78 |           | 749.88     |           |
| 26 27 16 00-0402  | EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 13,316.29<br>737.75 |           | 807.56     |           |
| 26 27 16 00-0403  | EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 11,832.94<br>685.98 |           | 807.56     |           |
| 26 27 16 00-0404  | EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 22,542.20<br>939.10 |           | 1,153.66   |           |
| <b>26 27 16 00-0405</b>   | <b>12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>     |                     |           |            |           |
| 26 27 16 00-0406  | EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....<br><i>For Mounting Pan, Add</i> | 6,705.74<br>208.37  |           | 634.52     |           |
| <b>26 27 16 00-0407</b>   | <b>Breaker Enclosures</b> <small>(26 27 16)</small>  |                     |           |            |           |
| See CSI section 26 24 16 00-0001 for lighting and power panel boards. |  |                     |           |            |           |
| <b>26 27 16 00-0408</b>   | <b>15 To 100 Amperes, F-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>   |                     |           |            |           |
| 26 27 16 00-0409  | EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....  | 452.36              |           | 123.05     |           |
| 26 27 16 00-0410  | EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....   | 791.72              |           | 123.05     |           |
| 26 27 16 00-0411  | EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....                                     | 1,899.91            |           | 169.21     |           |
| 26 27 16 00-0412  | EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....  | 2,558.11            |           | 184.58     |           |
| 26 27 16 00-0413  | EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....  | 1,884.84            |           | 184.58     |           |
| 26 27 16 00-0414  | EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....   | 703.98              |           | 169.21     |           |
| <b>26 27 16 00-0415</b>   | <b>15 To 250 Amperes, H Or J-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>                                    |                     |           |            |           |
| 26 27 16 00-0416  | EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....   | 711.59              |           | 169.21     |           |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|--|---------------------------|-------------------------|
| 26 27 16 00-0417        | EA  |     | NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure .....  | 1,255.04                  | 169.21                  |
| 26 27 16 00-0418        | EA  |     | NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure .....  | 4,146.22                  | 215.35                  |
| 26 27 16 00-0419        | EA  |     | NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....   | 1,065.76                  | 215.35                  |
| <b>26 27 16 00-0420</b> |     |     | <b>125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)</b>   |                           |                         |
| 26 27 16 00-0421        | EA  |     | NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure .....   | 1,142.73                  | 338.41                  |
| 26 27 16 00-0422        | EA  |     | NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure .....  | 2,482.85                  | 338.41                  |
| 26 27 16 00-0423        | EA  |     | NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....   | 7,051.83                  | 430.70                  |
| 26 27 16 00-0424        | EA  |     | NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure .....  | 1,846.61                  | 430.70                  |
| <b>26 27 16 00-0425</b> |     |     | <b>300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)</b>   |                           |                         |
| 26 27 16 00-0426        | EA  |     | NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure .....   | 2,231.70                  | 646.05                  |
| 26 27 16 00-0427        | EA  |     | NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure .....  | 3,648.08                  | 646.05                  |
| 26 27 16 00-0428        | EA  |     | NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....   | 12,709.54                 | 830.64                  |
| 26 27 16 00-0429        | EA  |     | NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure .....  | 7,027.66                  | 830.64                  |
| <b>26 27 16 00-0430</b> |     |     | <b>250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)</b>   |                           |                         |
| 26 27 16 00-0431        | EA  |     | NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....  | 2,667.09                  | 646.05                  |
| 26 27 16 00-0432        | EA  |     | NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure .....  | 4,336.63                  | 646.05                  |
| 26 27 16 00-0433        | EA  |     | NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure .....   | 8,751.76                  | 830.64                  |
| <b>26 27 16 00-0434</b> |     |     | <b>Legend Plates (26 27 16)</b>  |                           |                         |
| 26 27 16 00-0435        | EA  |     | 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters .....  | 24.15                     | 7.69                    |
| 26 27 16 00-0436        | EA  |     | 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters .....   | 32.02                     | 7.69                    |
| <b>26 27 19</b>         |     |     | <b>Multi-Outlet Assemblies (26 27)</b>   |                           |                         |
| <b>26 27 19 00-0001</b> |     |     | <b>Surface Metal Raceway, Preassembled With Outlets (26 27 19)</b>   |                           |                         |
|                         |     |     | Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).   |                           |                         |
| 26 27 19 00-0002        | LF  |     | Single Circuit, Plugmold #2000, 3' With Outlets 6" On Center .....   | 34.64                     | 11.23                   |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 1.12                      |                         |
| 26 27 19 00-0003        | LF  |     | Single Circuit, Plugmold #2000, 6' With Outlets 6" On Center .....   | 26.65                     | 7.99                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.81                      |                         |
| 26 27 19 00-0004        | LF  |     | Single Circuit, Plugmold #2000, 6' With Outlets 9" On Center .....   | 25.36                     | 8.46                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.84                      |                         |
| 26 27 19 00-0005        | LF  |     | Single Circuit, Plugmold #2000, 6' With Outlets 12" On Center .....  | 27.55                     | 7.99                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.81                      |                         |
| 26 27 19 00-0006        | LF  |     | Single Circuit, Plugmold #2000, 6' With Outlets 18" On Center .....  | 22.88                     | 8.15                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.81                      |                         |
| 26 27 19 00-0007        | LF  |     | Two Circuits, Plugmold #2000, 6' With Outlets 9" On Center .....   | 30.53                     | 7.99                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.81                      |                         |
| 26 27 19 00-0008        | LF  |     | Two Circuits, Plugmold #2000, 6' With Outlets 12" On Center .....  | 27.28                     | 7.99                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.81                      |                         |
| 26 27 19 00-0009        | LF  |     | Two Circuits, Plugmold #2000, 6' With Outlets 18" On Center .....  | 29.24                     | 7.99                    |
|                         |     |     | <i>For Concrete Or Masonry Surface, Add</i> .....  | 0.81                      |                         |
| <b>26 27 23</b>         |     |     | <b>Indoor Service Poles (26 27)</b>  |                           |                         |
| <b>26 27 23 00-0001</b> |     |     | <b>Communication And Power Poles (26 27 23)</b>  |                           |                         |
|                         |     |     | Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series. |                           |                         |
| <b>26 27 23 00-0002</b> |     |     | <b>Steel Communication And Power Poles (26 27 23 00-0001)</b>  |                           |                         |
| <b>26 27 23 00-0003</b> |     |     | <b>2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)</b>  |                           |                         |
| <b>26 27 23 00-0004</b> |     |     | <b>2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)</b>  |                           |                         |
| 26 27 23 00-0005        | EA  |     | 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....  | 354.05                    | 68.17                   |
| 26 27 23 00-0006        | EA  |     | 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....  | 382.34                    | 68.17                   |
| 26 27 23 00-0007        | EA  |     | 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....  | 415.05                    | 68.17                   |
| <b>26 27 23 00-0008</b> |     |     | <b>Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)</b>  |                           |                         |
|                         |     |     | Note: Excludes receptacles, communication jacks and wiring.  |                           |                         |
| 26 27 23 00-0009        | EA  |     | Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle .....   | 72.53                     | 14.06                   |
| 26 27 23 00-0010        | EA  |     | Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....  | 63.60                     | 14.06                   |
| 26 27 23 00-0011        | EA  |     | Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....  | 71.29                     | 14.06                   |
| 26 27 23 00-0012        | EA  |     | Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices .....   | 54.23                     | 14.06                   |
| 26 27 23 00-0013        | EA  |     | Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting .....  | 45.63                     | 14.06                   |
| <b>26 27 23 00-0014</b> |     |     | <b>2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)</b>  |                           |                         |



|                  | MINOR<br>CSI UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|------------------|--|---------------------------|-------------------------|
| 26 27 23 00-0015 |                  | <b>2-3/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0014)  |                           |                         |
| 26 27 23 00-0016 | EA               | 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole  | 451.05                    | 68.17                   |
| 26 27 23 00-0017 | EA               | 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole  | 511.84                    | 68.17                   |
| 26 27 23 00-0018 | EA               | 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole  | 544.65                    | 68.17                   |
| 26 27 23 00-0019 |                  | <b>Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0014)  |                           |                         |
|                  |                  | Note: Excludes receptacles and communication jacks.  |                           |                         |
| 26 27 23 00-0020 | EA               | Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle  | 50.43                     | 14.06                   |
| 26 27 23 00-0021 | EA               | Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle  | 45.89                     | 14.06                   |
| 26 27 23 00-0022 | EA               | Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices   | 49.14                     | 14.06                   |
| 26 27 23 00-0023 |                  | <b>3" Width, Steel Communication And Power Poles</b> (26 27 23 00-0002)  |                           |                         |
| 26 27 23 00-0024 |                  | <b>3" Width, Steel Communication And Power Poles</b> (26 27 23 00-0023)  |                           |                         |
| 26 27 23 00-0025 | EA               | 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole  | 579.87                    | 68.17                   |
| 26 27 23 00-0026 | EA               | 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole  | 653.05                    | 68.17                   |
| 26 27 23 00-0027 | EA               | 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole  | 701.28                    | 68.17                   |
| 26 27 23 00-0028 |                  | <b>Additional Cover Plates For 3" Width, Steel Communication And Power Poles</b> (26 27 23 00-0023)  |                           |                         |
|                  |                  | Note: Excludes receptacles and communication jacks.  |                           |                         |
| 26 27 23 00-0029 | EA               | Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle  | 50.43                     | 14.06                   |
| 26 27 23 00-0030 | EA               | Add-On 3" Width Steel Cover Plate For One Duplex Receptacle  | 45.89                     | 14.06                   |
| 26 27 23 00-0031 | EA               | Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices   | 49.14                     | 14.06                   |
| 26 27 23 00-0032 |                  | <b>Aluminum Communication And Power Poles</b> (26 27 23 00-0001)   |                           |                         |
| 26 27 23 00-0033 |                  | <b>2-1/8" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0032)   |                           |                         |
| 26 27 23 00-0034 |                  | <b>2-1/8" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0033)   |                           |                         |
| 26 27 23 00-0035 | EA               | 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 470.09                    | 68.17                   |
| 26 27 23 00-0036 | EA               | 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 521.25                    | 68.17                   |
| 26 27 23 00-0037 | EA               | 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 578.60                    | 68.17                   |
| 26 27 23 00-0038 |                  | <b>Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0033)   |                           |                         |
| 26 27 23 00-0039 | EA               | Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle  | 74.27                     | 14.06                   |
| 26 27 23 00-0040 | EA               | Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles  | 75.72                     | 14.06                   |
| 26 27 23 00-0041 | EA               | Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle  | 80.52                     | 14.06                   |
| 26 27 23 00-0042 | EA               | Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices  | 56.93                     | 14.06                   |
| 26 27 23 00-0043 | EA               | Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting   | 45.63                     | 14.06                   |
| 26 27 23 00-0044 |                  | <b>2-1/4" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0032)   |                           |                         |
| 26 27 23 00-0045 | EA               | 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole  | 454.11                    | 68.17                   |
| 26 27 23 00-0046 | EA               | 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole  | 506.58                    | 68.17                   |
| 26 27 23 00-0047 | EA               | 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole  | 568.40                    | 68.17                   |
| 26 27 23 00-0048 |                  | <b>5" Width, Aluminum Communication And Power Poles</b> (26 27 23 00-0032)   |                           |                         |
| 26 27 23 00-0049 | EA               | 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 921.48                    | 68.17                   |
| 26 27 23 00-0050 | EA               | 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 1,050.16                  | 68.17                   |
| 26 27 23 00-0051 | EA               | 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 1,194.29                  | 68.17                   |
| 26 27 23 00-0052 |                  | <b>2" Diameter, Round Aluminum Communication And Power Pole</b> (26 27 23 00-0032)   |                           |                         |
| 26 27 23 00-0053 | EA               | 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole   | 512.76                    | 68.17                   |
| 26 27 23 00-0054 | EA               | 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole  | 486.82                    | 68.17                   |
| 26 27 23 00-0055 | EA               | 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole  | 616.25                    | 68.17                   |
| 26 27 26         |                  | <b>Wiring Devices</b> (26 27)  |                           |                         |
|                  |                  | Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box. |                           |                         |
| 26 27 26 00-0001 |                  | <b>Receptacles</b> (26 27 26)  |                           |                         |
| 26 27 26 00-0002 |                  | <b>General Use Receptacles</b> (26 27 26 00-0001)  |                           |                         |
| 26 27 26 00-0003 |                  | <b>Receptacle Assemblies</b> (26 27 26 00-0002)  |                           |                         |
|                  |                  | Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.   |                           |                         |
| 26 27 26 00-0004 | EA               | 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly  | 126.38                    | 54.61                   |
| 26 27 26 00-0005 | EA               | 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly  | 135.08                    | 58.45                   |
| 26 27 26 00-0006 | EA               | 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly  | 161.65                    | 69.99                   |











**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....  | 36.45                     | 4.85                    |
| 26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....  | 42.75                     | 5.16                    |
| 26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....  | 51.42                     | 5.39                    |
| 26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....   | 12.76                     | 3.46                    |
| 26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....   | 20.70                     | 4.00                    |
| 26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....   | 33.15                     | 4.46                    |
| 26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....   | 39.88                     | 4.85                    |
| <b>26 27 26 00-0266 Chrome Wall Plates (26 27 26 00-0230)</b>   |                           |                         |
| 26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate .....   | 40.85                     | 3.46                    |
| 26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate .....  | 75.72                     | 4.00                    |
| 26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate .....  | 110.55                    | 4.46                    |
| 26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate.....  | 40.82                     | 3.46                    |
| <b>26 27 26 00-0271 Weatherproof Covers (26 27 26 00-0229)</b>  |                           |                         |
| <b>26 27 26 00-0272 Stamped Metallic Weatherproof Covers (26 27 26 00-0271)</b>   |                           |                         |
| Note: Includes electrostatically applied powder coating and neoprene gasket.  |                           |                         |
| 26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC) .....   | 11.71                     | 0.77                    |
| 26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....  | 12.66                     | 0.77                    |
| 26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....  | 12.66                     | 0.77                    |
| 26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC) .....   | 12.66                     | 0.77                    |
| 26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC) .....  | 15.64                     | 1.15                    |
| 26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....   | 17.67                     | 1.15                    |
| 26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....   | 17.87                     | 1.15                    |
| 26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....   | 17.87                     | 1.15                    |
| 26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....                                  | 24.07                     | 1.15                    |
| 26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB) .....   | 23.05                     | 1.54                    |
| 26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....  | 25.12                     | 1.54                    |
| <b>26 27 26 00-0284 Cast Metallic Weatherproof Covers (26 27 26 00-0271)</b>  |                           |                         |
| Note: Includes electrostatically applied powder coating and neoprene gasket.  |                           |                         |
| 26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....   | 14.25                     | 0.77                    |
| 26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....                               | 44.58                     | 0.77                    |
| 26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....                               | 49.94                     | 0.77                    |
| 26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....   | 14.14                     | 0.77                    |
| 26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT) .....                                  | 37.85                     | 0.77                    |
| 26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT) .....   | 62.69                     | 0.77                    |
| 26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST) .....  | 79.70                     | 0.77                    |
| 26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....   | 17.87                     | 1.15                    |
| 26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....   | 125.86                    | 1.15                    |
| 26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC) .....  | 29.70                     | 1.54                    |
| 26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....   | 120.47                    | 1.54                    |
| <b>26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271)</b>  |                           |                         |
| Note: Includes electrostatically applied powder coating and neoprene gasket.  |                           |                         |
| 26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027) .....                             | 5.85                      | 0.77                    |
| 26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....                              | 7.43                      | 0.77                    |
| 26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....                                | 10.01                     | 1.15                    |
| 26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041).....                                     | 10.83                     | 1.15                    |
| 26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042) .....              | 10.83                     | 1.15                    |
| 26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043) .....              | 12.02                     | 1.15                    |
| <b>26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271)</b>   |                           |                         |
| Note: Includes baked on lacquer finish and neoprene gasket.   |                           |                         |
| 26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510)..... | 57.21                     | 0.77                    |
| <b>26 27 26 00-0305 Polycarbonate Weatherproof Covers (26 27 26 00-0271)</b>  |                           |                         |
| Note: Includes neoprene gasket.   |                           |                         |
| 26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....  | 11.75                     | 0.77                    |
| 26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....                                       | 11.75                     | 0.77                    |
| 26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....                                       | 11.75                     | 0.77                    |
| 26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775) .....  | 14.60                     | 1.15                    |
| 26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....                         | 14.60                     | 1.15                    |
| <b>26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0271)</b>  |                           |                         |
| Note: Includes neoprene gasket.   |                           |                         |
| 26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522) .....                | 91.79                     | 0.77                    |



| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|-----|-----|---|---------------------------|-------------------------|
| <b>26 27 26 00-0313 Non-Metallic (PVC) Weatherproof Covers <small>(26 27 26 00-0271)</small></b>       |     |     |   |                           |                         |
| Note: Includes neoprene gasket.  |     |     |   |                           |                         |
| 26 27 26 00-0314   | EA  |     | Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                           | 13.26                     | 0.77                    |
| 26 27 26 00-0315   | EA  |     | Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover .....                              | 14.37                     | 1.15                    |
| 26 27 26 00-0316   | EA  |     | Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                         | 13.30                     | 0.77                    |
| 26 27 26 00-0317   | EA  |     | Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                                | 28.93                     | 0.77                    |
| 26 27 26 00-0318   | EA  |     | Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                     | 33.48                     | 0.77                    |
| 26 27 26 00-0319   | EA  |     | 20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                | 27.20                     | 0.77                    |
| 26 27 26 00-0320   | EA  |     | 30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                | 20.35                     | 0.77                    |
| 26 27 26 00-0321   | EA  |     | 50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                | 23.76                     | 0.77                    |
| 26 27 26 00-0322   | EA  |     | Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....                        | 21.28                     | 0.77                    |
| 26 27 26 00-0323   | EA  |     | Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover .....                 | 30.65                     | 1.15                    |
| <b>26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices <small>(26 27 26)</small></b>         |     |     |   |                           |                         |
| Note: Includes storage and cleaning.   |     |     |   |                           |                         |
| 26 27 26 00-0325   | EA  |     | Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device .....         | 101.20                    |                         |
| 26 27 26 00-0326   | EA  |     | Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate .....                     | 12.82                     |                         |
| <b>26 27 26 00-0327 Relay Systems <small>(26 27 26)</small></b>  |     |     |   |                           |                         |
| 26 27 26 00-0328   | EA  |     | 10 Amperes, 24 Volt Coil, 2 Position Relay .....  | 109.38                    | 34.61                   |
| 26 27 26 00-0329   | EA  |     | 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay .....                     | 450.12                    | 115.36                  |
| 26 27 26 00-0330   | EA  |     | 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay .....                          | 746.79                    | 153.82                  |
| <b>26 27 26 00-0331 Limit Switches <small>(26 27 26)</small></b>                                       |     |     |   |                           |                         |
| <b>26 27 26 00-0332 Heavy Duty Precision Oiltight <small>(26 27 26 00-0331)</small></b>                |     |     |   |                           |                         |
| <b>26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type <small>(26 27 26 00-0332)</small></b>        |     |     |   |                           |                         |
| 26 27 26 00-0334   | EA  |     | Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated .....                        | 488.19                    | 96.91                   |
| <b>26 27 26 00-0335 In Line Midget Fuseholders <small>(26 27 26)</small></b>                           |     |     |   |                           |                         |
| See CSI section 26 28 13 00-0078 for fuses.  |     |     |   |                           |                         |
| 26 27 26 00-0336   | EA  |     | Single Pole Water Resistant In Line Midget Fuseholder .....                                     | 102.60                    |                         |
| 26 27 26 00-0337   | EA  |     | Double Pole Water Resistant In Line Midget Fuseholder .....                                     | 222.81                    |                         |
| <b>26 27 33 Power Distribution Units <small>(26 27)</small></b>  |     |     |   |                           |                         |
| Note: Includes wiring connections and testing.   |     |     |   |                           |                         |
| <b>26 27 33 00-0001 Liebert Precision Power Center <small>(26 27 33)</small></b>                       |     |     |   |                           |                         |
| Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.           |     |     |   |                           |                         |
| 26 27 33 00-0002   | EA  |     | PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C) .....           | 21,359.51                 | 473.01                  |
| 26 27 33 00-0003   | EA  |     | PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C) .....           | 25,770.93                 | 512.68                  |
| 26 27 33 00-0004   | EA  |     | PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C) .....           | 29,364.87                 | 569.14                  |
| 26 27 33 00-0005   | EA  |     | PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C) .....           | 33,773.38                 | 615.28                  |
| 26 27 33 00-0006   | EA  |     | PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C) .....          | 36,886.43                 | 769.11                  |
| 26 27 33 00-0007   | EA  |     | PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C) .....          | 41,402.20                 | 922.93                  |
| 26 27 33 00-0008   | EA  |     | PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C) .....          | 47,774.48                 | 1,076.75                |
| 26 27 33 00-0009   | EA  |     | PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C) .....              | 50,268.70                 | 1,230.58                |
| 26 27 33 00-0010   | EA  |     | PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C) .....              | 53,134.22                 | 1,384.39                |
| 26 27 33 00-0011   | EA  |     | Ex Panelboard 10-30 KVA .....   | 1,933.14                  | 153.82                  |
| 26 27 33 00-0012   | EA  |     | Ex Panelboard 50-125 KVA .....  | 2,876.42                  | 192.28                  |
| 26 27 33 00-0013   | EA  |     | Ex Panelboard 150-220 KVA .....   | 6,418.84                  | 230.73                  |
| 26 27 33 00-0014   | EA  |     | Removal And Reinstallation Of Power Distribution Unit .....                                     | 2,461.14                  |                         |
| Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.                  |     |     |   |                           |                         |
| 26 27 33 00-0015   | EA  |     | Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only .....           | 1,845.86                  |                         |
| <b>26 27 73 Door Chimes <small>(26 27)</small></b>   |     |     |   |                           |                         |
| <b>26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer <small>(26 27 73)</small></b> |     |     |   |                           |                         |
| Note: Non-electric chime, mounted on door  |     |     |   |                           |                         |
| 26 27 73 00-0002   | EA  |     | Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV) ..... | 87.49                     | 19.06                   |
| <b>26 27 73 00-0003 Wireless Door Bell System <small>(26 27 73)</small></b>                            |     |     |   |                           |                         |
| 26 27 73 00-0004   | EA  |     | Wireless Doorbell Chime And Push Button (Broan LA542WH) .....                                   | 156.75                    |                         |
| Note: Includes 2 push buttons  |     |     |   |                           |                         |
| 26 27 73 00-0005   | EA  |     | Wireless Doorbell Chime And Push Button (STI-3350G) .....                                       | 148.51                    |                         |
| Note: Includes 2 push buttons  |     |     |   |                           |                         |
| 26 27 73 00-0006   | EA  |     | Wireless Doorbell Chime And Push Button (GE 19300) .....  | 114.82                    |                         |
| Note: Includes 2 push buttons  |     |     |   |                           |                         |
| <b>26 27 73 00-0007 Door Chimes <small>(26 27 73)</small></b>  |     |     |   |                           |                         |
| 26 27 73 00-0008   | EA  |     | Door Bell, Push-Button And Transformer, Complete .....  | 795.28                    | 320.41                  |
| 26 27 73 00-0009   | EA  |     | Visual Flashing Doorbell Indicator, Wire To Existing System, Complete .....                     | 298.75                    | 76.91                   |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 26 27 73 00-0010 | EA | Removal And Replacement Of Bell/Buzzer, Complete<br>Note: Includes removal of existing. | 124.52 | 38.46 |
|------------------|----|---|--------|-------|

## 26 28 Low-Voltage Circuit Protective Devices (26 20)

### 26 28 13 Fuses (26 28)

|                  |    |   |               |       |
|------------------|----|---|---------------|-------|
| 26 28 13 00-0001 |    | 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26<br>28 13)  |               |       |
| 26 28 13 00-0002 | EA | 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 32.58<br>7.38 | 11.08 |
| 26 28 13 00-0003 | EA | 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 31.95<br>7.38 | 11.08 |
| 26 28 13 00-0004 | EA | 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 31.09<br>7.38 | 11.08 |
| 26 28 13 00-0005 | EA | 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 30.96<br>7.38 | 11.08 |
| 26 28 13 00-0006 | EA | 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 31.77<br>7.38 | 11.08 |
| 26 28 13 00-0007 | EA | 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 30.19<br>7.38 | 11.08 |
| 26 28 13 00-0008 | EA | 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 29.82<br>7.38 | 11.08 |
| 26 28 13 00-0009 | EA | 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 26.75<br>7.38 | 11.08 |
| 26 28 13 00-0010 | EA | 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 26.28<br>7.38 | 11.08 |
| 26 28 13 00-0011 | EA | 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 27.17<br>7.38 | 11.08 |
| 26 28 13 00-0012 | EA | 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 26.55<br>7.38 | 11.08 |

### 26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)

|                  |    |  |               |       |
|------------------|----|--|---------------|-------|
| 26 28 13 00-0014 |    | 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26<br>28 13 00-0013)  |               |       |
| 26 28 13 00-0015 | EA | 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add   | 47.71<br>7.38 | 11.08 |
| 26 28 13 00-0016 | EA | 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 44.92<br>7.38 | 11.08 |
| 26 28 13 00-0017 | EA | 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.86<br>7.38 | 11.08 |
| 26 28 13 00-0018 | EA | 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.61<br>7.38 | 11.08 |
| 26 28 13 00-0019 | EA | 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 44.67<br>7.38 | 11.08 |
| 26 28 13 00-0020 | EA | 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 43.51<br>7.38 | 11.08 |
| 26 28 13 00-0021 | EA | 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 40.43<br>7.38 | 11.08 |
| 26 28 13 00-0022 | EA | 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 40.20<br>7.38 | 11.08 |
| 26 28 13 00-0023 | EA | 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 40.45<br>7.38 | 11.08 |
| 26 28 13 00-0024 | EA | 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 40.13<br>7.38 | 11.08 |
| 26 28 13 00-0025 | EA | 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 53.23<br>7.38 | 11.08 |
| 26 28 13 00-0026 | EA | 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 52.30<br>7.38 | 11.08 |
| 26 28 13 00-0027 | EA | 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 53.00<br>7.38 | 11.08 |
| 26 28 13 00-0028 | EA | 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 52.43<br>7.38 | 11.08 |
| 26 28 13 00-0029 | EA | 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 51.59<br>7.38 | 11.08 |

### 26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28 13 00-0013)

|                  |    |  |                |       |
|------------------|----|--|----------------|-------|
| 26 28 13 00-0031 | EA | 70 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.52<br>9.23  | 13.84 |
| 26 28 13 00-0032 | EA | 80 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 92.05<br>9.23  | 13.84 |
| 26 28 13 00-0033 | EA | 90 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 101.46<br>9.23 | 13.84 |
| 26 28 13 00-0034 | EA | 100 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 91.32<br>9.23  | 13.84 |
| 26 28 13 00-0035 | EA | 110 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 246.13<br>9.23 | 13.84 |
| 26 28 13 00-0036 | EA | 125 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse<br>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add | 182.03<br>9.23 | 13.84 |



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Contains item descriptions for electrical equipment like fuses and their costs.



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 755.14<br>18.46           | 27.69                   |
| <b>26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses <sup>(26 28 13)</sup></b><br>Note: 250/300 Volt DC.  |                           |                         |
| 26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 54.03<br>7.38             | 11.08                   |
| 26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 54.77<br>7.38             | 11.08                   |
| 26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 54.56<br>7.38             | 11.08                   |
| 26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 54.33<br>7.38             | 11.08                   |
| 26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 57.81<br>7.38             | 11.08                   |
| 26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                    | 52.24<br>7.38             | 11.08                   |
| 26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 58.78<br>7.38             | 11.08                   |
| 26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 54.35<br>7.38             | 11.08                   |
| 26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 53.44<br>7.38             | 11.08                   |
| 26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 51.35<br>7.38             | 11.08                   |
| 26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                   | 53.13<br>7.38             | 11.08                   |
| <b>26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse <sup>(26 28 13)</sup></b>  |                           |                         |
| 26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 65.86<br>4.62             | 7.69                    |
| 26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 66.35<br>4.62             | 7.69                    |
| 26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                      | 58.43<br>5.54             | 9.23                    |
| 26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 59.16<br>6.92             | 11.54                   |
| 26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 60.32<br>6.92             | 11.54                   |
| 26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 59.29<br>6.92             | 11.54                   |
| 26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 75.83<br>9.23             | 15.39                   |
| 26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 64.25<br>9.23             | 15.39                   |
| 26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 107.47<br>9.23            | 15.39                   |
| 26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 92.58<br>9.23             | 15.39                   |
| 26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 105.19<br>9.23            | 15.39                   |
| 26 28 13 00-0102 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 95.77<br>11.54            | 19.22                   |
| 26 28 13 00-0103 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 94.16<br>11.54            | 19.22                   |
| 26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 143.32<br>13.85           | 23.07                   |
| 26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 152.16<br>13.85           | 23.07                   |
| 26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                     | 149.90<br>13.85           | 23.07                   |
| 26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 134.16<br>16.15           | 26.92                   |
| 26 28 13 00-0108 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 298.99<br>16.15           | 26.92                   |
| 26 28 13 00-0109 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 255.80<br>16.15           | 26.92                   |
| 26 28 13 00-0110 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 246.05<br>18.46           | 30.76                   |
| 26 28 13 00-0111 EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 249.49<br>18.46           | 30.76                   |
| 26 28 13 00-0112 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 209.31<br>18.46           | 30.76                   |
| 26 28 13 00-0113 EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 509.81<br>18.46           | 30.76                   |
| 26 28 13 00-0114 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 472.31<br>18.46           | 30.76                   |
| 26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 436.22<br>18.46           | 30.76                   |
| 26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                    | 474.63<br>18.46           | 30.76                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 395.68<br>20.77           | 34.61                   |
| 26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 824.21<br>20.77           | 34.61                   |
| 26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 703.36<br>23.07           | 38.46                   |
| 26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 527.31<br>23.07           | 38.46                   |
| <b>26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses</b> <small>(26 28 13)</small>  |                           |                         |
| 26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,557.29<br>11.54         | 19.22                   |
| 26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,560.35<br>11.54         | 19.22                   |
| 26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,563.20<br>11.54         | 19.22                   |
| 26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,559.94<br>13.85         | 23.07                   |
| 26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,437.50<br>13.85         | 23.07                   |
| 26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,539.15<br>16.15         | 26.92                   |
| 26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,417.60<br>16.15         | 26.92                   |
| 26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,584.05<br>16.15         | 26.92                   |
| 26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,553.39<br>16.15         | 26.92                   |
| 26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,384.78<br>18.46         | 30.76                   |
| 26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,421.67<br>18.46         | 30.76                   |
| 26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,885.36<br>18.46         | 30.76                   |
| 26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,378.09<br>18.46         | 30.76                   |
| 26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 2,110.21<br>20.77         | 34.61                   |
| 26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,222.38<br>20.77         | 34.61                   |
| 26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 1,777.50<br>20.77         | 34.61                   |
| 26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,202.09<br>20.77         | 34.61                   |
| 26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,237.38<br>20.77         | 34.61                   |
| 26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,730.69<br>20.77         | 34.61                   |
| 26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,692.56<br>20.77         | 34.61                   |
| 26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,430.91<br>20.77         | 34.61                   |
| 26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 1,526.77<br>23.07         | 38.46                   |
| 26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 3,215.21<br>23.07         | 38.46                   |
| 26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,064.96<br>23.07         | 38.46                   |
| 26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 2,785.04<br>23.07         | 38.46                   |
| 26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4,731.47<br>23.07         | 38.46                   |
| 26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 3,104.45<br>25.38         | 42.30                   |
| 26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6,398.24<br>25.38         | 42.30                   |
| 26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 7,420.90<br>25.38         | 42.30                   |
| 26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 4,299.65<br>25.38         | 42.30                   |
| 26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 6,773.74<br>25.38         | 42.30                   |
| 26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse<br><i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> | 11,199.87<br>25.38        | 42.30                   |

**26 28 16 Enclosed Switches and Circuit Breakers** (26 28)

**26 28 16 13 Enclosed Circuit Breakers** (26 28 16)

**26 28 16 13-0001 Branch Circuit Breakers** (26 28 16 13)

Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 28 16 13-0002 |     |     | <b>Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28)</small>   |                        |                      |
|                  |     |     | <small>16 13-0001</small><br>Note: Includes connection of electrical wire.  |                        |                      |
| 26 28 16 13-0003 | EA  |     | 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....  | 71.69                  | 27.69                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 19.73                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -15.38                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.46                  |                      |
| 26 28 16 13-0004 | EA  |     | 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....  | 71.69                  | 27.69                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 19.73                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -15.38                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 18.46                  |                      |
| 26 28 16 13-0005 | EA  |     | 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....                                       | 100.36                 | 34.61                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 26.00                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -19.23                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 23.07                  |                      |
| 26 28 16 13-0006 | EA  |     | 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....                                    | 140.67                 | 34.61                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 31.04                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -19.23                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 23.07                  |                      |
| 26 28 16 13-0007 | EA  |     | 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... | 186.77                 | 34.61                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 36.81                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -19.23                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 23.07                  |                      |
| 26 28 16 13-0008 | EA  |     | 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity .....       | 213.05                 | 34.61                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 40.09                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -19.23                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 23.07                  |                      |
| 26 28 16 13-0009 | EA  |     | 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity .....                               | 115.27                 | 34.61                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 27.87                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -19.23                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 23.07                  |                      |
| 26 28 16 13-0010 | EA  |     | 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....  | 115.74                 | 41.53                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 30.62                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -23.07                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 27.69                  |                      |
| 26 28 16 13-0011 | EA  |     | 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....  | 115.74                 | 41.53                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 30.62                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -23.07                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 27.69                  |                      |
| 26 28 16 13-0012 | EA  |     | 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....                                       | 169.95                 | 55.38                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 42.78                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -30.76                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 36.92                  |                      |
| 26 28 16 13-0013 | EA  |     | 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....                                      | 267.17                 | 69.22                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 60.31                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -38.46                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 46.15                  |                      |
| 26 28 16 13-0014 | EA  |     | 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....   | 311.47                 | 76.91                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 68.55                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -42.30                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 50.76                  |                      |
| 26 28 16 13-0015 | EA  |     | 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....                                    | 254.75                 | 49.23                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 51.23                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -27.69                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 33.23                  |                      |
| 26 28 16 13-0016 | EA  |     | 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity .....       | 330.15                 | 49.23                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 60.65                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -27.69                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 33.23                  |                      |
| 26 28 16 13-0017 | EA  |     | 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....  | 205.12                 | 55.38                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 47.17                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -30.76                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 36.92                  |                      |
| 26 28 16 13-0018 | EA  |     | 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity .....  | 205.12                 | 55.38                |
|                  |     |     | <i>For Bolt-On, Add</i>   | 47.17                  |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>   | -30.76                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>  |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>   | 36.92                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....    | 266.73                    | 69.22                   |
| For Bolt-On, Add  | 60.26                     |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.15                     |                         |
| 26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....   | 389.70                    | 83.06                   |
| For Bolt-On, Add  | 81.01                     |                         |
| For Installation In New Panelboard, Deduct  | -46.15                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 55.37                     |                         |
| 26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....          | 491.42                    | 96.91                   |
| For Bolt-On, Add  | 99.11                     |                         |
| For Installation In New Panelboard, Deduct  | -53.84                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 64.61                     |                         |
| <b>26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On<sup>(26 28</sup></b>                    |                           |                         |
| <sup>16 13-0001)</sup>  |                           |                         |
| Note: Includes connection of electrical wire.   |                           |                         |
| 26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....     | 95.58                     | 27.69                   |
| For Bolt-On, Add  | 22.72                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 18.46                     |                         |
| 26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....     | 95.58                     | 27.69                   |
| For Bolt-On, Add  | 22.72                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 18.46                     |                         |
| 26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....    | 161.42                    | 34.61                   |
| For Bolt-On, Add  | 33.64                     |                         |
| For Installation In New Panelboard, Deduct  | -19.23                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 23.07                     |                         |
| 26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity..... | 238.92                    | 34.61                   |
| For Bolt-On, Add  | 43.32                     |                         |
| For Installation In New Panelboard, Deduct  | -19.23                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 23.07                     |                         |
| 26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....     | 178.62                    | 41.53                   |
| For Bolt-On, Add  | 38.48                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 27.69                     |                         |
| 26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....     | 178.62                    | 41.53                   |
| For Bolt-On, Add  | 38.48                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 27.69                     |                         |
| 26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....    | 335.16                    | 55.38                   |
| For Bolt-On, Add  | 63.43                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 36.92                     |                         |
| 26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....   | 452.71                    | 69.22                   |
| For Bolt-On, Add  | 83.51                     |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.15                     |                         |
| 26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....          | 649.17                    | 76.91                   |
| For Bolt-On, Add  | 110.76                    |                         |
| For Installation In New Panelboard, Deduct  | -42.30                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 50.76                     |                         |
| 26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....     | 278.08                    | 55.38                   |
| For Bolt-On, Add  | 56.29                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 36.92                     |                         |
| 26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....     | 278.08                    | 55.38                   |
| For Bolt-On, Add  | 56.29                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 36.92                     |                         |
| 26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....    | 407.34                    | 69.22                   |
| For Bolt-On, Add  | 77.84                     |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.15                     |                         |
| 26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity.....   | 569.82                    | 83.06                   |
| For Bolt-On, Add  | 103.53                    |                         |
| For Installation In New Panelboard, Deduct  | -46.15                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 55.37                     |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....    | 862.40                    | 96.91                   |
| For Bolt-On, Add   | 145.49                    |                         |
| For Installation In New Panelboard, Deduct   | -53.84                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 64.61                     |                         |
| 26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....    | 990.18                    | 103.83                  |
| For Bolt-On, Add   | 164.15                    |                         |
| For Installation In New Panelboard, Deduct   | -57.68                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 69.22                     |                         |
| 26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....    | 1,063.28                  | 110.75                  |
| For Bolt-On, Add   | 175.98                    |                         |
| For Installation In New Panelboard, Deduct   | -61.53                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 73.84                     |                         |
| 26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....    | 1,249.79                  | 117.68                  |
| For Bolt-On, Add   | 201.99                    |                         |
| For Installation In New Panelboard, Deduct   | -65.38                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 78.45                     |                         |
| <b>26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28</sup></b>              |                           |                         |
| <sup>16 13-0001)</sup>   |                           |                         |
| Note: Includes connection of electrical wire.  |                           |                         |
| 26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....   | 111.27                    | 27.69                   |
| For Bolt-On, Add   | 24.68                     |                         |
| For Installation In New Panelboard, Deduct   | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 18.46                     |                         |
| 26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....   | 111.27                    | 27.69                   |
| For Bolt-On, Add   | 24.68                     |                         |
| For Installation In New Panelboard, Deduct   | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 18.46                     |                         |
| 26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....  | 176.92                    | 34.61                   |
| For Bolt-On, Add   | 35.57                     |                         |
| For Installation In New Panelboard, Deduct   | -19.23                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 23.07                     |                         |
| 26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....   | 219.53                    | 41.53                   |
| For Bolt-On, Add   | 43.59                     |                         |
| For Installation In New Panelboard, Deduct   | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 27.69                     |                         |
| 26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....   | 219.53                    | 41.53                   |
| For Bolt-On, Add   | 43.59                     |                         |
| For Installation In New Panelboard, Deduct   | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 27.69                     |                         |
| 26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....  | 374.39                    | 55.38                   |
| For Bolt-On, Add   | 68.33                     |                         |
| For Installation In New Panelboard, Deduct   | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 36.92                     |                         |
| 26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity ..... | 915.17                    | 69.22                   |
| For Bolt-On, Add   | 141.31                    |                         |
| For Installation In New Panelboard, Deduct   | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 46.15                     |                         |
| 26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....   | 345.59                    | 55.38                   |
| For Bolt-On, Add   | 64.73                     |                         |
| For Installation In New Panelboard, Deduct   | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 36.92                     |                         |
| 26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....   | 345.59                    | 55.38                   |
| For Bolt-On, Add   | 64.73                     |                         |
| For Installation In New Panelboard, Deduct   | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 36.92                     |                         |
| 26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....  | 456.48                    | 69.22                   |
| For Bolt-On, Add   | 83.98                     |                         |
| For Installation In New Panelboard, Deduct   | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 46.15                     |                         |
| 26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity ..... | 1,131.30                  | 83.06                   |
| For Bolt-On, Add   | 173.71                    |                         |
| For Installation In New Panelboard, Deduct   | -46.15                    |                         |
| Note: Also for use with new interiors in panelboards.  |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                       | 55.37                     |                         |
| <b>26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28</sup></b>              |                           |                         |
| <sup>16 13-0001)</sup>   |                           |                         |
| Note: Includes connection of electrical wire.  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 124.60                    | 27.69                   |
| <i>For Bolt-On, Add</i>  | 26.34                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -15.38                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 18.46                     |                         |
| 26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 124.60                    | 27.69                   |
| <i>For Bolt-On, Add</i>  | 26.34                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -15.38                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 18.46                     |                         |
| 26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....    | 148.08                    | 34.61                   |
| <i>For Bolt-On, Add</i>  | 31.97                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -19.23                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 23.07                     |                         |
| 26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity ..... | 237.14                    | 34.61                   |
| <i>For Bolt-On, Add</i>  | 43.10                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -19.23                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 23.07                     |                         |
| 26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 254.30                    | 41.53                   |
| <i>For Bolt-On, Add</i>  | 47.94                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -23.07                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 27.69                     |                         |
| 26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 254.30                    | 41.53                   |
| <i>For Bolt-On, Add</i>  | 47.94                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -23.07                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 27.69                     |                         |
| 26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....    | 311.39                    | 55.38                   |
| <i>For Bolt-On, Add</i>  | 60.46                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -30.76                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 36.92                     |                         |
| 26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....       | 442.55                    | 69.22                   |
| <i>For Bolt-On, Add</i>  | 82.24                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -38.46                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 46.15                     |                         |
| 26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....       | 564.41                    | 76.91                   |
| <i>For Bolt-On, Add</i>  | 100.16                    |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -42.30                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 50.76                     |                         |
| 26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....              | 701.64                    | 89.99                   |
| <i>For Bolt-On, Add</i>  | 122.70                    |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -49.99                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 59.99                     |                         |
| 26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....       | 761.04                    | 103.83                  |
| <i>For Bolt-On, Add</i>  | 135.51                    |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -57.68                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 69.22                     |                         |
| 26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 311.97                    | 55.38                   |
| <i>For Bolt-On, Add</i>  | 60.53                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -30.76                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 36.92                     |                         |
| 26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 311.97                    | 55.38                   |
| <i>For Bolt-On, Add</i>  | 60.53                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -30.76                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 36.92                     |                         |
| 26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....    | 368.49                    | 69.22                   |
| <i>For Bolt-On, Add</i>  | 72.98                     |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -38.46                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 46.15                     |                         |
| 26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....       | 546.80                    | 83.06                   |
| <i>For Bolt-On, Add</i>  | 100.65                    |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -46.15                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 55.37                     |                         |
| 26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....       | 716.65                    | 107.68                  |
| <i>For Bolt-On, Add</i>  | 131.31                    |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -59.61                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 71.53                     |                         |
| 26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....              | 880.67                    | 124.60                  |
| <i>For Bolt-On, Add</i>  | 158.54                    |                         |
| <i>For Installation In New Panelboard, Deduct</i>  | -69.22                    |                         |
| <i>Note: Also for use with new interiors in panelboards.</i>   |                           |                         |
| <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                                      | 83.06                     |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 28 16 13-0070        | EA  | 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....     | 935.98                    | 132.29                  |
|                         |     | <i>For Bolt-On, Add</i>  | 168.14                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -73.07                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 87.68                     |                         |
| <b>26 28 16 13-0071</b> |     | <b>Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28)</sup></b>              |                           |                         |
|                         |     | <sup>16 13-0001</sup><br>Note: Includes connection of electrical wire.                                       |                           |                         |
| 26 28 16 13-0072        | EA  | 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....   | 262.99                    | 41.53                   |
|                         |     | <i>For Bolt-On, Add</i>  | 49.02                     |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -23.07                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 27.69                     |                         |
| 26 28 16 13-0073        | EA  | 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....   | 262.99                    | 41.53                   |
|                         |     | <i>For Bolt-On, Add</i>  | 49.02                     |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -23.07                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 27.69                     |                         |
| 26 28 16 13-0074        | EA  | 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....  | 395.37                    | 55.38                   |
|                         |     | <i>For Bolt-On, Add</i>  | 70.96                     |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -30.76                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 36.92                     |                         |
| 26 28 16 13-0075        | EA  | 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity ..... | 630.23                    | 69.22                   |
|                         |     | <i>For Bolt-On, Add</i>  | 105.70                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -38.46                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 46.15                     |                         |
| 26 28 16 13-0076        | EA  | 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity ..... | 969.39                    | 86.14                   |
|                         |     | <i>For Bolt-On, Add</i>  | 154.82                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -48.07                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 57.68                     |                         |
| 26 28 16 13-0077        | EA  | 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....        | 1,094.14                  | 89.99                   |
|                         |     | <i>For Bolt-On, Add</i>  | 171.76                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -49.99                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 59.99                     |                         |
| 26 28 16 13-0078        | EA  | 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity ..... | 1,198.73                  | 103.83                  |
|                         |     | <i>For Bolt-On, Add</i>  | 190.22                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -57.68                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 69.22                     |                         |
| 26 28 16 13-0079        | EA  | 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....   | 375.45                    | 55.38                   |
|                         |     | <i>For Bolt-On, Add</i>  | 68.47                     |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -30.76                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 36.92                     |                         |
| 26 28 16 13-0080        | EA  | 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....   | 375.45                    | 55.38                   |
|                         |     | <i>For Bolt-On, Add</i>  | 68.47                     |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -30.76                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 36.92                     |                         |
| 26 28 16 13-0081        | EA  | 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....  | 472.64                    | 69.22                   |
|                         |     | <i>For Bolt-On, Add</i>  | 86.00                     |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -38.46                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 46.15                     |                         |
| 26 28 16 13-0082        | EA  | 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity ..... | 782.24                    | 83.06                   |
|                         |     | <i>For Bolt-On, Add</i>  | 130.08                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -46.15                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 55.37                     |                         |
| 26 28 16 13-0083        | EA  | 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity ..... | 1,135.10                  | 107.68                  |
|                         |     | <i>For Bolt-On, Add</i>  | 183.61                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -59.61                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 71.53                     |                         |
| 26 28 16 13-0084        | EA  | 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....        | 1,339.56                  | 124.60                  |
|                         |     | <i>For Bolt-On, Add</i>  | 215.90                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -69.22                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 83.06                     |                         |
| 26 28 16 13-0085        | EA  | 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity ..... | 1,447.38                  | 132.29                  |
|                         |     | <i>For Bolt-On, Add</i>  | 232.07                    |                         |
|                         |     | <i>For Installation In New Panelboard, Deduct</i>  | -73.07                    |                         |
|                         |     | Note: Also for use with new interiors in panelboards.  |                           |                         |
|                         |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>                | 87.68                     |                         |
| <b>26 28 16 13-0086</b> |     | <b>Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28)</sup></b>              |                           |                         |
|                         |     | <sup>16 13-0001</sup><br>Note: Includes connection of electrical wire.                                       |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....      | 271.62                    | 41.53                   |
| For Bolt-On, Add  | 50.10                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 27.69                     |                         |
| 26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....      | 271.62                    | 41.53                   |
| For Bolt-On, Add  | 50.10                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 27.69                     |                         |
| 26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....     | 475.08                    | 55.38                   |
| For Bolt-On, Add  | 80.92                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 36.92                     |                         |
| 26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....    | 851.23                    | 69.22                   |
| For Bolt-On, Add  | 133.32                    |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.15                     |                         |
| 26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....    | 1,334.70                  | 86.14                   |
| For Bolt-On, Add  | 200.49                    |                         |
| For Installation In New Panelboard, Deduct  | -48.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 57.68                     |                         |
| 26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....        | 1,514.29                  | 89.99                   |
| For Bolt-On, Add  | 224.28                    |                         |
| For Installation In New Panelboard, Deduct  | -49.99                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 59.99                     |                         |
| 26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....    | 1,652.12                  | 103.83                  |
| For Bolt-On, Add  | 246.89                    |                         |
| For Installation In New Panelboard, Deduct  | -57.68                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 69.22                     |                         |
| 26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....      | 435.22                    | 55.38                   |
| For Bolt-On, Add  | 75.94                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 36.92                     |                         |
| 26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....      | 435.22                    | 55.38                   |
| For Bolt-On, Add  | 75.94                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 36.92                     |                         |
| 26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....     | 576.25                    | 69.22                   |
| For Bolt-On, Add  | 98.95                     |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 46.15                     |                         |
| 26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....    | 1,034.76                  | 83.06                   |
| For Bolt-On, Add  | 161.65                    |                         |
| For Installation In New Panelboard, Deduct  | -46.15                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 55.37                     |                         |
| 26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....    | 1,308.69                  | 107.68                  |
| For Bolt-On, Add  | 205.31                    |                         |
| For Installation In New Panelboard, Deduct  | -59.61                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 71.53                     |                         |
| 26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....        | 2,060.93                  | 124.60                  |
| For Bolt-On, Add  | 306.07                    |                         |
| For Installation In New Panelboard, Deduct  | -69.22                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 83.06                     |                         |
| 26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....    | 2,194.28                  | 132.29                  |
| For Bolt-On, Add  | 325.43                    |                         |
| For Installation In New Panelboard, Deduct  | -73.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 87.68                     |                         |
| <b>26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small></b> |                           |                         |
| Note: Includes connection of electrical wire.   |                           |                         |
| 26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....          | 146.36                    | 27.69                   |
| For Bolt-On, Add  | 29.06                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 18.46                     |                         |
| 26 28 16 13-0103 EA 1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....          | 146.36                    | 27.69                   |
| For Bolt-On, Add  | 29.06                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add  | 18.46                     |                         |



|              |   |
|--------------|---|
| <b>26</b>    | <b>Electrical</b>                             |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b>    |
| <b>26 28</b> | <b>Low-Voltage Circuit Protective Devices</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 13-0104 EA 1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity    | 245.52                    | 34.61                   |
| For Bolt-On, Add  | 44.15                     |                         |
| For Installation In New Panelboard, Deduct  | -19.23                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 23.07                     |                         |
| 26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity     | 306.98                    | 41.53                   |
| For Bolt-On, Add  | 54.52                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 27.69                     |                         |
| 26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity     | 306.98                    | 41.53                   |
| For Bolt-On, Add  | 54.52                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 27.69                     |                         |
| 26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity    | 548.23                    | 55.38                   |
| For Bolt-On, Add  | 90.06                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 36.92                     |                         |
| 26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity   | 997.35                    | 69.22                   |
| For Bolt-On, Add  | 151.59                    |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 46.15                     |                         |
| 26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity   | 1,911.87                  | 86.14                   |
| For Bolt-On, Add  | 272.63                    |                         |
| For Installation In New Panelboard, Deduct  | -48.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 57.68                     |                         |
| 26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity     | 499.01                    | 55.38                   |
| For Bolt-On, Add  | 83.91                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 36.92                     |                         |
| 26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity     | 499.01                    | 55.38                   |
| For Bolt-On, Add  | 83.91                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 36.92                     |                         |
| 26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity    | 664.88                    | 69.22                   |
| For Bolt-On, Add  | 110.03                    |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 46.15                     |                         |
| 26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity   | 1,227.37                  | 83.06                   |
| For Bolt-On, Add  | 185.72                    |                         |
| For Installation In New Panelboard, Deduct  | -46.15                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 55.37                     |                         |
| 26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity   | 2,376.92                  | 107.68                  |
| For Bolt-On, Add  | 338.84                    |                         |
| For Installation In New Panelboard, Deduct  | -59.61                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 71.53                     |                         |
| 26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28)</sup>             |                           |                         |
| <sup>16 13-0001</sup>   |                           |                         |
| Note: Includes connection of electrical wire.   |                           |                         |
| 26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity  | 207.65                    | 27.69                   |
| For Bolt-On, Add  | 36.72                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 18.46                     |                         |
| 26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity   | 207.65                    | 27.69                   |
| For Bolt-On, Add  | 36.72                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 18.46                     |                         |
| 26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity | 310.71                    | 34.61                   |
| For Bolt-On, Add  | 52.30                     |                         |
| For Installation In New Panelboard, Deduct  | -19.23                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 23.07                     |                         |
| 26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity  | 377.90                    | 41.53                   |
| For Bolt-On, Add  | 63.39                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 27.69                     |                         |
| 26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity  | 377.90                    | 41.53                   |
| For Bolt-On, Add  | 63.39                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                | 27.69                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....  | 700.90                    | 55.38                   |
| For Bolt-On, Add  | 109.15                    |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 36.92                     |                         |
| 26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity..... | 1,256.39                  | 69.22                   |
| For Bolt-On, Add  | 183.97                    |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 46.15                     |                         |
| 26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity..... | 2,473.98                  | 76.91                   |
| For Bolt-On, Add  | 338.86                    |                         |
| For Installation In New Panelboard, Deduct  | -42.30                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 50.76                     |                         |
| 26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....   | 641.13                    | 55.38                   |
| For Bolt-On, Add  | 101.68                    |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 36.92                     |                         |
| 26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....   | 641.13                    | 55.38                   |
| For Bolt-On, Add  | 101.68                    |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 36.92                     |                         |
| 26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....  | 884.44                    | 69.22                   |
| For Bolt-On, Add  | 137.47                    |                         |
| For Installation In New Panelboard, Deduct  | -38.46                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 46.15                     |                         |
| 26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity..... | 1,419.99                  | 83.06                   |
| For Bolt-On, Add  | 209.80                    |                         |
| For Installation In New Panelboard, Deduct  | -46.15                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 55.37                     |                         |
| 26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity..... | 3,127.70                  | 107.68                  |
| For Bolt-On, Add  | 432.69                    |                         |
| For Installation In New Panelboard, Deduct  | -59.61                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 71.53                     |                         |
| <b>26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On<sup>(26 28</sup></b>              |                           |                         |
| <sup>16 13-0001)</sup>  |                           |                         |
| Note: Includes connection of electrical wire.   |                           |                         |
| 26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 101.85                    | 27.69                   |
| For Bolt-On, Add  | 23.50                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 18.46                     |                         |
| 26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 205.92                    | 41.53                   |
| For Bolt-On, Add  | 41.89                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 27.69                     |                         |
| 26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 320.98                    | 55.38                   |
| For Bolt-On, Add  | 61.66                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 36.92                     |                         |
| 26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 197.15                    | 27.69                   |
| For Bolt-On, Add  | 35.41                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 18.46                     |                         |
| 26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 197.15                    | 27.69                   |
| For Bolt-On, Add  | 35.41                     |                         |
| For Installation In New Panelboard, Deduct  | -15.38                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 18.46                     |                         |
| 26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....  | 392.72                    | 55.38                   |
| For Bolt-On, Add  | 70.62                     |                         |
| For Installation In New Panelboard, Deduct  | -30.76                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 36.92                     |                         |
| 26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 436.31                    | 41.53                   |
| For Bolt-On, Add  | 70.69                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 27.69                     |                         |
| 26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....   | 436.31                    | 41.53                   |
| For Bolt-On, Add  | 70.69                     |                         |
| For Installation In New Panelboard, Deduct  | -23.07                    |                         |
| Note: Also for use with new interiors in panelboards.   |                           |                         |
| For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add                                      | 27.69                     |                         |

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 28 16 13-0138 | EA  |     | 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....  | 832.56                 | 55.38                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 125.60                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -30.76                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 36.92                  |                      |
| 26 28 16 13-0139 | EA  |     | 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity ..... | 1,402.52               | 69.22                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 202.23                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -38.46                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 46.15                  |                      |
| 26 28 16 13-0140 | EA  |     | 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity ..... | 3,059.13               | 86.14                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 416.04                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -48.07                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 57.68                  |                      |
| 26 28 16 13-0141 | EA  |     | 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....   | 724.70                 | 55.38                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 112.12                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -30.76                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 36.92                  |                      |
| 26 28 16 13-0142 | EA  |     | 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....   | 724.70                 | 55.38                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 112.12                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -30.76                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 36.92                  |                      |
| 26 28 16 13-0143 | EA  |     | 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....  | 1,005.76               | 69.22                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 152.64                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -38.46                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 46.15                  |                      |
| 26 28 16 13-0144 | EA  |     | 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity ..... | 1,526.26               | 83.06                |
|                  |     |     | <i>For Bolt-On, Add</i>  | 223.08                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -46.15                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 55.37                  |                      |
| 26 28 16 13-0145 | EA  |     | 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity ..... | 3,803.80               | 107.68               |
|                  |     |     | <i>For Bolt-On, Add</i>  | 517.20                 |                      |
|                  |     |     | <i>For Installation In New Panelboard, Deduct</i>  | -59.61                 |                      |
|                  |     |     | <i>Note: Also for use with new interiors in panelboards.</i>   |                        |                      |
|                  |     |     | <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>            | 71.53                  |                      |

**26 28 16 16 Enclosed Switches** (26 28 16)

|                  |    |  |  |           |          |
|------------------|----|--|--|-----------|----------|
| 26 28 16 16-0001 |    |  | <b>Motor And Circuit Disconnects</b> <small>(26 28 16 16)</small><br>Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect. |           |          |
| 26 28 16 16-0002 |    |  | <b>NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0001)</small>  |           |          |
| 26 28 16 16-0003 |    |  | <b>Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0002)</small><br>Note: Includes fuses and neutral bar.   |           |          |
| 26 28 16 16-0004 |    |  | <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0003)</small>   |           |          |
| 26 28 16 16-0005 | EA |  | 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 652.92    | 153.82   |
| 26 28 16 16-0006 | EA |  | 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 1,061.29  | 185.35   |
| 26 28 16 16-0007 | EA |  | 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 1,482.39  | 216.89   |
| 26 28 16 16-0008 | EA |  | 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 2,572.91  | 341.49   |
| 26 28 16 16-0009 | EA |  | 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 5,593.75  | 530.69   |
| 26 28 16 16-0010 | EA |  | 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 9,404.34  | 784.49   |
| 26 28 16 16-0011 | EA |  | 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 12,921.03 | 922.93   |
| 26 28 16 16-0012 | EA |  | 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 17,448.92 | 1,076.75 |
| 26 28 16 16-0013 |    |  | <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0003)</small>   |           |          |
| 26 28 16 16-0014 | EA |  | 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 1,033.02  | 170.90   |
| 26 28 16 16-0015 | EA |  | 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 1,246.57  | 205.97   |
| 26 28 16 16-0016 | EA |  | 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 2,036.47  | 240.73   |
| 26 28 16 16-0017 | EA |  | 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 2,995.96  | 379.94   |
| 26 28 16 16-0018 | EA |  | 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 6,686.26  | 589.45   |



|  |           |           |
|--|-----------|-----------|
| <b>Electrical</b>                      | <b>26</b> | <b>26</b> |
| Low-Voltage Electrical Distribution    | 26 20     |           |
| Low-Voltage Circuit Protective Devices | 26 28     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 16-0019 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 10,453.13                 | 871.25                  |
| 26 28 16 16-0020 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 15,621.81                 | 1,024.91                |
| 26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                    | 21,469.50                 | 1,196.43                |
| <b>26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b> |                           |                         |
| 26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 914.51                    | 241.50                  |
| 26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 1,369.93                  | 320.72                  |
| 26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 1,891.42                  | 356.10                  |
| 26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 2,995.67                  | 557.60                  |
| 26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 6,372.96                  | 915.24                  |
| 26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 10,494.49                 | 1,282.11                |
| <b>26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b> |                           |                         |
| 26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 1,225.29                  | 266.88                  |
| 26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 1,546.97                  | 356.10                  |
| 26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 2,356.34                  | 400.71                  |
| 26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 3,456.78                  | 610.68                  |
| 26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 7,930.49                  | 986.00                  |
| 26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 12,862.52                 | 1,424.38                |
| 26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 20,823.20                 | 1,692.04                |
| 26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                    | 26,767.33                 | 1,922.77                |
| <b>26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b> |                           |                         |
| 26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 881.35                    | 241.50                  |
| 26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 1,327.08                  | 320.72                  |
| 26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 1,813.46                  | 356.10                  |
| 26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 3,102.89                  | 557.60                  |
| 26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 6,977.22                  | 915.24                  |
| 26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 11,403.55                 | 1,282.11                |
| 26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 19,188.75                 | 1,615.13                |
| 26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                    | 23,748.45                 | 1,845.86                |
| <b>26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b> |                           |                         |
| 26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 1,346.96                  | 266.88                  |
| 26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 1,696.50                  | 356.10                  |
| 26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 2,574.97                  | 400.71                  |
| 26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 3,784.06                  | 610.68                  |
| 26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 8,628.75                  | 986.00                  |
| 26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 14,095.73                 | 1,424.38                |
| 26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                      | 22,870.63                 | 1,692.04                |
| 26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                    | 28,978.98                 | 1,922.77                |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 28 16 16-0056 |     | <b>Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b><br><small>(26 28 16 16-0002)</small>  |                           |                         |
| 26 28 16 16-0057 |     | <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b><br><small>(26 28 16 16-0056)</small> |                           |                         |
| 26 28 16 16-0058 | EA  | 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 631.94                    | 222.58                  |
| 26 28 16 16-0059 | EA  | 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 996.95                    | 309.64                  |
| 26 28 16 16-0060 | EA  | 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 1,403.99                  | 356.10                  |
| 26 28 16 16-0061 | EA  | 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 2,194.77                  | 569.75                  |
| 26 28 16 16-0062 | EA  | 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 4,513.36                  | 949.54                  |
| 26 28 16 16-0063 | EA  | 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 7,489.35                  | 1,294.87                |
| 26 28 16 16-0064 | EA  | 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 10,829.15                 | 1,538.21                |
| 26 28 16 16-0065 | EA  | 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                           | 14,399.92                 | 1,795.25                |
| 26 28 16 16-0066 |     | <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b><br><small>(26 28 16 16-0056)</small> |                           |                         |
| 26 28 16 16-0067 | EA  | 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 698.11                    | 245.65                  |
| 26 28 16 16-0068 | EA  | 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 1,130.54                  | 347.49                  |
| 26 28 16 16-0069 | EA  | 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 1,589.79                  | 395.63                  |
| 26 28 16 16-0070 | EA  | 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 2,465.68                  | 619.29                  |
| 26 28 16 16-0071 | EA  | 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 4,856.73                  | 1,017.37                |
| 26 28 16 16-0072 | EA  | 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 8,284.61                  | 1,424.23                |
| 26 28 16 16-0073 | EA  | 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 12,080.72                 | 1,538.21                |
| 26 28 16 16-0074 | EA  | 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                           | 16,113.90                 | 1,795.25                |
| 26 28 16 16-0075 |     | <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b><br><small>(26 28 16 16-0056)</small> |                           |                         |
| 26 28 16 16-0076 | EA  | 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 724.87                    | 199.97                  |
| 26 28 16 16-0077 | EA  | 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 1,126.22                  | 278.42                  |
| 26 28 16 16-0078 | EA  | 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 1,552.65                  | 320.72                  |
| 26 28 16 16-0079 | EA  | 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 2,433.84                  | 512.99                  |
| 26 28 16 16-0080 | EA  | 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 4,976.16                  | 854.48                  |
| 26 28 16 16-0081 | EA  | 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 8,149.38                  | 1,165.20                |
| 26 28 16 16-0082 | EA  | 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 14,396.81                 | 1,384.39                |
| 26 28 16 16-0083 | EA  | 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                           | 18,873.62                 | 1,615.13                |
| 26 28 16 16-0084 |     | <b>480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b><br><small>(26 28 16 16-0056)</small> |                           |                         |
| 26 28 16 16-0085 | EA  | 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 789.33                    | 220.73                  |
| 26 28 16 16-0086 | EA  | 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                              | 1,234.80                  | 313.03                  |
| 26 28 16 16-0087 | EA  | 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 1,688.98                  | 356.10                  |
| 26 28 16 16-0088 | EA  | 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 2,623.60                  | 557.60                  |
| 26 28 16 16-0089 | EA  | 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 5,331.56                  | 915.24                  |
| 26 28 16 16-0090 | EA  | 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 8,798.07                  | 1,282.11                |
| 26 28 16 16-0091 | EA  | 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                             | 15,225.39                 | 1,384.39                |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 28 16 16-0092</b> 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>               |                           |                         |
| 26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 851.07                    | 221.05                  |
| 26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,340.09                  | 312.72                  |
| 26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 1,860.21                  | 356.10                  |
| 26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 2,887.34                  | 557.29                  |
| 26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 5,700.49                  | 915.55                  |
| 26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 9,889.92                  | 1,281.80                |
| 26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 16,471.29                 | 1,384.39                |
| 26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....  | 21,666.22                 | 1,615.13                |
| <b>26 28 16 16-0101</b> 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>               |                           |                         |
| 26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,317.87                  | 200.28                  |
| 26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,570.97                  | 278.73                  |
| 26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 2,469.94                  | 320.41                  |
| 26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 3,688.39                  | 512.68                  |
| <b>26 28 16 16-0106</b> 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>               |                           |                         |
| 26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,424.85                  | 220.73                  |
| 26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,711.37                  | 313.03                  |
| 26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 2,671.82                  | 356.10                  |
| 26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 3,967.79                  | 557.60                  |
| <b>26 28 16 16-0111</b> 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>               |                           |                         |
| 26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,596.69                  | 221.05                  |
| 26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                      | 1,900.91                  | 312.72                  |
| 26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 3,012.67                  | 356.10                  |
| 26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....                                     | 4,464.32                  | 557.29                  |
| <b>26 28 16 16-0116</b> General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>  |                           |                         |
| Note: Includes fuses and neutral bar.   |                           |                         |
| <b>26 28 16 16-0117</b> 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>   |                           |                         |
| 26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                         | 437.52                    | 133.82                  |
| 26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                         | 608.59                    | 161.05                  |
| 26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                        | 970.41                    | 188.28                  |
| 26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                        | 1,825.92                  | 297.03                  |
| 26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                        | 4,484.34                  | 460.69                  |
| 26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                        | 8,489.73                  | 681.89                  |
| <b>26 28 16 16-0124</b> 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small> |                           |                         |
| 26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                       | 589.94                    | 210.28                  |

|              |   |
|--------------|---|
| <b>26</b>    | <b>Electrical</b>                             |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b>    |
| <b>26 28</b> | <b>Low-Voltage Circuit Protective Devices</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                    | 843.22                    | 278.73                  |
| 26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 1,213.10                  | 309.64                  |
| 26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 2,203.21                  | 484.70                  |
| 26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 5,159.76                  | 796.18                  |
| 26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 9,364.10                  | 1,114.59                |
| <b>26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0116)</small>              |                           |                         |
| 26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                    | 670.11                    | 210.28                  |
| 26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                    | 972.49                    | 278.73                  |
| 26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 1,330.73                  | 309.64                  |
| 26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 2,499.56                  | 484.70                  |
| 26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 5,666.31                  | 796.18                  |
| 26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....                                   | 9,685.20                  | 1,114.59                |
| <b>26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0002)</small>   |                           |                         |
| <b>26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0138)</small>                          |                           |                         |
| 26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 595.89                    | 186.12                  |
| 26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 812.52                    | 213.96                  |
| 26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 1,916.54                  | 341.95                  |
| 26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 4,204.88                  | 569.14                  |
| 26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 7,399.92                  | 775.57                  |
| <b>26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0138)</small>                          |                           |                         |
| 26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 563.89                    | 174.12                  |
| 26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....  | 770.53                    | 242.27                  |
| 26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 1,223.73                  | 278.73                  |
| 26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 2,125.66                  | 445.93                  |
| 26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 4,554.64                  | 743.27                  |
| 26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....   | 7,878.64                  | 1,013.07                |
| <b>26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0001)</small>  |                           |                         |
| <b>26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0152)</small><br>Note: With fuses, neutral bar, and hub if required.     |                           |                         |
| <b>26 28 16 16-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0153)</small> |                           |                         |
| 26 28 16 16-0155 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                       | 984.85                    | 180.74                  |
| 26 28 16 16-0156 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                       | 1,607.30                  | 216.89                  |
| 26 28 16 16-0157 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                      | 2,019.67                  | 252.27                  |
| 26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                      | 2,947.53                  | 384.55                  |
| 26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                      | 6,647.80                  | 615.28                  |
| 26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                      | 11,799.13                 | 820.64                  |



|  |           |           |
|--|-----------|-----------|
| <b>Electrical</b>                      | <b>26</b> | <b>26</b> |
| Low-Voltage Electrical Distribution    | 26 20     |           |
| Low-Voltage Circuit Protective Devices | 26 28     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 17,867.10                 | 922.93                  |
| 26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 23,759.93                 | 1,076.75                |
| <b>26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26)</sup></b><br><small><sup>28 16 16-0153)</sup></small> |                           |                         |
| 26 28 16 16-0164 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 1,735.27                  | 240.88                  |
| 26 28 16 16-0165 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 2,061.48                  | 295.34                  |
| 26 28 16 16-0166 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 2,972.00                  | 339.17                  |
| 26 28 16 16-0167 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 4,169.61                  | 508.69                  |
| 26 28 16 16-0168 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 9,231.54                  | 832.33                  |
| 26 28 16 16-0169 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 17,198.57                 | 1,144.59                |
| 26 28 16 16-0170 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 25,495.88                 | 1,317.94                |
| 26 28 16 16-0171 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 28,067.92                 | 1,483.61                |
| <b>26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26)</sup></b><br><small><sup>28 16 16-0153)</sup></small> |                           |                         |
| 26 28 16 16-0173 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 1,225.14                  | 284.57                  |
| 26 28 16 16-0174 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 1,987.86                  | 376.87                  |
| 26 28 16 16-0175 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 2,419.37                  | 413.78                  |
| 26 28 16 16-0176 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 3,571.41                  | 640.67                  |
| 26 28 16 16-0177 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 7,906.21                  | 1,068.29                |
| 26 28 16 16-0178 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 13,393.99                 | 1,424.38                |
| <b>26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26)</sup></b><br><small><sup>28 16 16-0153)</sup></small> |                           |                         |
| 26 28 16 16-0180 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 1,931.91                  | 337.33                  |
| 26 28 16 16-0181 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 2,298.69                  | 413.47                  |
| 26 28 16 16-0182 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 3,122.92                  | 474.70                  |
| 26 28 16 16-0183 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 4,523.59                  | 712.19                  |
| 26 28 16 16-0184 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 9,718.31                  | 1,165.35                |
| 26 28 16 16-0185 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 17,843.48                 | 1,602.36                |
| 26 28 16 16-0186 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 25,502.24                 | 1,845.86                |
| 26 28 16 16-0187 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 30,603.48                 | 2,076.59                |
| <b>26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26)</sup></b><br><small><sup>28 16 16-0153)</sup></small> |                           |                         |
| 26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 1,361.10                  | 284.57                  |
| 26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....  | 1,991.80                  | 376.87                  |
| 26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 2,610.54                  | 413.78                  |
| 26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 3,698.91                  | 640.67                  |
| 26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 8,023.17                  | 1,068.29                |
| 26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 14,680.51                 | 1,424.38                |
| 26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....   | 24,942.07                 | 1,615.13                |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



| MINOR                   |     | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| CSI                     | UOM |   |                           |                         |
| 26 28 16 16-0196        | EA  | 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                       | 31,187.04                 | 1,845.86                |
| <b>26 28 16 16-0197</b> |     | <b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0197)</small> |                           |                         |
| 26 28 16 16-0198        | EA  | 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                          | 2,009.92                  | 337.64                  |
| 26 28 16 16-0199        | EA  | 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                          | 2,386.39                  | 413.78                  |
| 26 28 16 16-0200        | EA  | 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                         | 3,317.84                  | 474.54                  |
| 26 28 16 16-0201        | EA  | 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                         | 4,650.30                  | 712.19                  |
| 26 28 16 16-0202        | EA  | 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                         | 10,176.38                 | 1,165.20                |
| 26 28 16 16-0203        | EA  | 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                         | 18,369.77                 | 1,602.05                |
| 26 28 16 16-0204        | EA  | 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                         | 27,159.48                 | 1,845.86                |
| 26 28 16 16-0205        | EA  | 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                | 32,787.94                 | 2,076.59                |
| <b>26 28 16 16-0206</b> |     | <b>Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0152)</small>  |                           |                         |
| <b>26 28 16 16-0207</b> |     | <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>             |                           |                         |
| 26 28 16 16-0208        | EA  | 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                      | 942.72                    | 158.29                  |
| 26 28 16 16-0209        | EA  | 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                      | 1,562.16                  | 219.19                  |
| 26 28 16 16-0210        | EA  | 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 2,075.38                  | 251.35                  |
| 26 28 16 16-0211        | EA  | 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 2,719.04                  | 407.01                  |
| 26 28 16 16-0212        | EA  | 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 6,186.10                  | 678.96                  |
| 26 28 16 16-0213        | EA  | 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 11,475.09                 | 905.24                  |
| 26 28 16 16-0214        | EA  | 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 18,682.86                 | 1,077.21                |
| 26 28 16 16-0215        | EA  | 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                   | 24,775.30                 | 1,231.04                |
| <b>26 28 16 16-0216</b> |     | <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>             |                           |                         |
| 26 28 16 16-0217        | EA  | 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                      | 1,063.60                  | 174.43                  |
| 26 28 16 16-0218        | EA  | 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                      | 1,772.75                  | 244.12                  |
| 26 28 16 16-0219        | EA  | 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 2,348.20                  | 275.65                  |
| 26 28 16 16-0220        | EA  | 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 3,031.94                  | 427.32                  |
| 26 28 16 16-0221        | EA  | 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 7,054.70                  | 712.19                  |
| 26 28 16 16-0222        | EA  | 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 12,405.51                 | 949.54                  |
| 26 28 16 16-0223        | EA  | 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 19,936.66                 | 1,128.44                |
| 26 28 16 16-0224        | EA  | 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                   | 26,430.54                 | 1,281.80                |
| <b>26 28 16 16-0225</b> |     | <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>             |                           |                         |
| 26 28 16 16-0226        | EA  | 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                      | 1,100.98                  | 237.34                  |
| 26 28 16 16-0227        | EA  | 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                      | 1,781.29                  | 328.71                  |
| 26 28 16 16-0228        | EA  | 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 2,326.72                  | 377.02                  |
| 26 28 16 16-0229        | EA  | 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 3,125.98                  | 610.51                  |
| 26 28 16 16-0230        | EA  | 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 6,962.95                  | 1,018.30                |
| 26 28 16 16-0231        | EA  | 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 12,572.09                 | 1,357.48                |



|  |           |           |
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| <b>Electrical</b>                      | <b>26</b> | <b>26</b> |
| Low-Voltage Electrical Distribution    | 26 20     |           |
| Low-Voltage Circuit Protective Devices | 26 28     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 19,974.23                 | 1,615.13                |
| 26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                                   | 26,615.32                 | 1,845.86                |
| <b>26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small></b>               |                           |                         |
| 26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 1,194.15                  | 261.50                  |
| 26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 1,936.70                  | 366.25                  |
| 26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 2,512.01                  | 413.47                  |
| 26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 3,323.11                  | 640.98                  |
| 26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 7,414.39                  | 1,068.13                |
| 26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 13,408.89                 | 1,424.23                |
| 26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 21,323.74                 | 1,692.04                |
| 26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                                   | 28,404.01                 | 1,922.77                |
| <b>26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small></b>               |                           |                         |
| 26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 573.93                    | 261.50                  |
| 26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                     | 2,016.92                  | 366.25                  |
| 26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 2,623.86                  | 413.47                  |
| 26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 3,459.23                  | 640.98                  |
| 26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 7,766.84                  | 1,068.13                |
| 26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 13,355.03                 | 1,424.23                |
| 26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....                                    | 21,293.57                 | 1,692.04                |
| 26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                                   | 28,362.95                 | 1,922.77                |
| <b>26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small></b>  |                           |                         |
| Note: With fuses, neutral bar, and hub if required.  |                           |                         |
| <b>26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small></b>   |                           |                         |
| 26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                          | 575.24                    | 157.20                  |
| 26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                          | 831.09                    | 188.59                  |
| 26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                         | 1,109.62                  | 219.35                  |
| 26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                         | 2,343.03                  | 334.40                  |
| 26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                         | 5,895.97                  | 534.99                  |
| 26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                         | 10,588.03                 | 713.73                  |
| <b>26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small></b> |                           |                         |
| 26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                        | 757.28                    | 247.80                  |
| 26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                        | 1,110.35                  | 327.79                  |
| 26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                       | 1,389.58                  | 359.64                  |
| 26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                       | 2,790.56                  | 557.29                  |
| 26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                       | 6,687.58                  | 928.77                  |
| 26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....                       | 11,652.44                 | 1,238.88                |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR   |     | DESCRIPTION | TOTAL DIRECT | DEMOLITION   |  |          |
|---|-----|-------------|--------------|--|--|----------|
| CSI   | UOM |             | UNIT COST    | UNIT COST  |  |          |
| 26  | 28  | 16          | 16-0267      | <b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 16 16-0267)</sup> |  |          |
| 26  | 28  | 16          | 16-0268      | EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 869.70         |  | 247.65   |
| 26  | 28  | 16          | 16-0269      | EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 1,222.91       |  | 327.79   |
| 26  | 28  | 16          | 16-0270      | EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 1,752.30      |  | 359.64   |
| 26  | 28  | 16          | 16-0271      | EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 3,024.89      |  | 557.29   |
| 26  | 28  | 16          | 16-0272      | EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 6,838.10      |  | 928.93   |
| 26  | 28  | 16          | 16-0273      | EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 12,828.31     |  | 1,238.88 |
| 26  | 28  | 16          | 16-0274      | EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 18,546.37     |  | 1,403.47 |
| 26  | 28  | 16          | 16-0275      | <b>General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0152)</sup>   |  |          |
| 26  | 28  | 16          | 16-0276      | <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0276)</sup>          |  |          |
| 26  | 28  | 16          | 16-0277      | EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 521.55                     |  | 137.67   |
| 26  | 28  | 16          | 16-0278      | EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 873.77                     |  | 190.58   |
| 26  | 28  | 16          | 16-0279      | EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 907.78                    |  | 218.58   |
| 26  | 28  | 16          | 16-0280      | EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 2,382.90                  |  | 353.79   |
| 26  | 28  | 16          | 16-0281      | EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 6,008.33                  |  | 590.37   |
| 26  | 28  | 16          | 16-0282      | EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 10,740.08                 |  | 787.10   |
| 26  | 28  | 16          | 16-0283      | <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0275)</sup>          |  |          |
| 26  | 28  | 16          | 16-0284      | EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 821.67                     |  | 206.43   |
| 26  | 28  | 16          | 16-0285      | EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 1,189.43                   |  | 285.80   |
| 26  | 28  | 16          | 16-0286      | EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 1,794.47                  |  | 327.79   |
| 26  | 28  | 16          | 16-0287      | EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch ..... 3,103.33                  |  | 530.84   |
| 26  | 28  | 16          | 16-0288      | <b>NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0001)</sup>   |  |          |
| 26  | 28  | 16          | 16-0289      | <b>Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0288)</sup>   |  |          |
| Note: With fuses and neutral bar (stainless steel). |     |             |              |  |  |          |
| 26  | 28  | 16          | 16-0290      | <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0289)</sup>      |  |          |
| 26  | 28  | 16          | 16-0291      | EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 2,805.97               |  | 153.82   |
| 26  | 28  | 16          | 16-0292      | EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,370.35               |  | 185.35   |
| 26  | 28  | 16          | 16-0293      | EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 6,970.49              |  | 216.58   |
| 26  | 28  | 16          | 16-0294      | EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 9,616.31              |  | 341.80   |
| 26  | 28  | 16          | 16-0295      | EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 19,646.09             |  | 530.38   |
| 26  | 28  | 16          | 16-0296      | EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 28,227.04             |  | 784.18   |
| 26  | 28  | 16          | 16-0297      | <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0289)</sup>      |  |          |
| 26  | 28  | 16          | 16-0298      | EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,575.07               |  | 170.90   |
| 26  | 28  | 16          | 16-0299      | EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,966.37               |  | 205.81   |
| 26  | 28  | 16          | 16-0300      | EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 7,532.72              |  | 240.58   |



|  |           |           |
|--|-----------|-----------|
| <b>Electrical</b>                      | <b>26</b> | <b>26</b> |
| Low-Voltage Electrical Distribution    | 26 20     |           |
| Low-Voltage Circuit Protective Devices | 26 28     |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 26 28 16 16-0301        | EA  |     | 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 10,622.56              | 379.94               |
| 26 28 16 16-0302        | EA  |     | 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 20,379.81              | 589.75               |
| 26 28 16 16-0303        | EA  |     | 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 29,206.78              | 871.25               |
| <b>26 28 16 16-0304</b> |     |     | <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b> |                        |                      |
| 26 28 16 16-0305        | EA  |     | 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 3,112.73               | 241.81               |
| 26 28 16 16-0306        | EA  |     | 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 3,891.30               | 320.41               |
| 26 28 16 16-0307        | EA  |     | 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 7,572.86               | 356.10               |
| 26 28 16 16-0308        | EA  |     | 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 10,735.09              | 557.29               |
| 26 28 16 16-0309        | EA  |     | 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 21,031.39              | 915.55               |
| 26 28 16 16-0310        | EA  |     | 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 30,028.04              | 1,281.80             |
| <b>26 28 16 16-0311</b> |     |     | <b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b> |                        |                      |
| 26 28 16 16-0312        | EA  |     | 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 3,777.42               | 267.04               |
| 26 28 16 16-0313        | EA  |     | 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 4,277.85               | 356.10               |
| 26 28 16 16-0314        | EA  |     | 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 7,874.57               | 400.55               |
| 26 28 16 16-0315        | EA  |     | 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 11,114.13              | 610.36               |
| 26 28 16 16-0316        | EA  |     | 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 21,696.37              | 986.00               |
| 26 28 16 16-0317        | EA  |     | 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 30,860.62              | 1,424.23             |
| <b>26 28 16 16-0318</b> |     |     | <b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b> |                        |                      |
| 26 28 16 16-0319        | EA  |     | 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 3,748.44               | 241.81               |
| 26 28 16 16-0320        | EA  |     | 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 4,686.01               | 320.41               |
| 26 28 16 16-0321        | EA  |     | 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 9,163.06               | 356.10               |
| 26 28 16 16-0322        | EA  |     | 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 12,909.62              | 557.29               |
| 26 28 16 16-0323        | EA  |     | 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 25,311.13              | 915.55               |
| 26 28 16 16-0324        | EA  |     | 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 35,909.44              | 1,281.80             |
| <b>26 28 16 16-0325</b> |     |     | <b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b> |                        |                      |
| 26 28 16 16-0326        | EA  |     | 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 4,528.59               | 267.04               |
| 26 28 16 16-0327        | EA  |     | 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                          | 5,129.65               | 356.10               |
| 26 28 16 16-0328        | EA  |     | 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 9,497.76               | 400.55               |
| 26 28 16 16-0329        | EA  |     | 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 13,306.83              | 610.36               |
| 26 28 16 16-0330        | EA  |     | 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 26,033.86              | 986.00               |
| 26 28 16 16-0331        | EA  |     | 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                         | 36,822.21              | 1,424.23             |
| 26 28 16 16-0332        |     |     | Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>   |                        |                      |
| 26 28 16 16-0333        |     |     | 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>    |                        |                      |
| 26 28 16 16-0334        | EA  |     | 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 2,688.66               | 153.82               |
| 26 28 16 16-0335        | EA  |     | 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 3,257.14               | 213.96               |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 6,221.68                  | 246.12                  |
| 26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 8,602.49                  | 393.17                  |
| 26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 15,696.63                 | 654.66                  |
| 26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 22,507.78                 | 891.86                  |
| <b>26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b> |                           |                         |
| 26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 3,060.62                  | 169.67                  |
| 26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 3,713.04                  | 239.96                  |
| 26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 7,094.84                  | 273.50                  |
| 26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 9,787.41                  | 427.32                  |
| 26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 17,849.17                 | 703.28                  |
| 26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 25,653.77                 | 984.46                  |
| <b>26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b> |                           |                         |
| 26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 2,781.59                  | 200.28                  |
| 26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 3,341.41                  | 278.73                  |
| 26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 3,470.01                  | 320.41                  |
| 26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 6,754.90                  | 512.68                  |
| 26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 9,525.21                  | 854.63                  |
| 26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 23,737.20                 | 1,165.35                |
| <b>26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b> |                           |                         |
| 26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 3,163.16                  | 221.05                  |
| 26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 3,858.53                  | 312.72                  |
| 26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 7,260.03                  | 356.10                  |
| 26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 10,047.30                 | 557.29                  |
| 26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 20,174.33                 | 915.55                  |
| 26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 27,028.34                 | 1,281.80                |
| <b>26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b> |                           |                         |
| 26 28 16 16-0362 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 3,868.39                  | 200.28                  |
| 26 28 16 16-0363 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 4,616.16                  | 278.73                  |
| 26 28 16 16-0364 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 10,565.27                 | 320.41                  |
| 26 28 16 16-0365 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 16,103.41                 | 512.68                  |
| <b>26 28 16 16-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small></b> |                           |                         |
| 26 28 16 16-0367 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 4,405.22                  | 221.05                  |
| 26 28 16 16-0368 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                       | 5,263.96                  | 312.72                  |
| 26 28 16 16-0369 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....                      | 12,054.24                 | 356.10                  |



|  |           |           |
|--|-----------|-----------|
| <b>Electrical</b>                      | <b>26</b> | <b>26</b> |
| Low-Voltage Electrical Distribution    | 26 20     |           |
| Low-Voltage Circuit Protective Devices | 26 28     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                              | 18,346.56                 | 557.29                  |
| <b>26 28 16 16-0371</b> <b>Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0288)</small>   |                           |                         |
| <b>26 28 16 16-0372</b> <b>600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0371)</small>     |                           |                         |
| 26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch  | 5,117.20                  | 266.88                  |
| 26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch  | 5,803.04                  | 356.10                  |
| 26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                                       | 10,569.45                 | 400.71                  |
| 26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                                       | 13,705.97                 | 610.68                  |
| <b>26 28 16 16-0377</b> <b>600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0371)</small> |                           |                         |
| 26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                                    | 4,808.71                  | 220.73                  |
| 26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                                    | 5,478.37                  | 313.03                  |
| 26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                                   | 10,004.76                 | 356.10                  |
| 26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch                                   | 13,556.94                 | 557.60                  |
| <b>26 28 16 16-0382</b> <b>Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0288)</small>  |                           |                         |
| <b>26 28 16 16-0383</b> <b>600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0382)</small>                              |                           |                         |
| 26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch   | 5,873.56                  | 266.88                  |
| 26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch   | 6,649.38                  | 356.10                  |
| 26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch  | 12,170.00                 | 400.71                  |
| <b>26 28 16 16-0387</b> <b>600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0382)</small>                          |                           |                         |
| 26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch   | 5,524.35                  | 220.73                  |
| 26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch   | 6,279.71                  | 313.03                  |
| 26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch  | 11,541.03                 | 356.10                  |
| <b>26 28 16 16-0391</b> <b>NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0001)</small>  |                           |                         |
| Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.   |                           |                         |
| <b>26 28 16 16-0392</b> <b>Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0391)</small>  |                           |                         |
| Note: With fuses and neutral bar.  |                           |                         |
| 26 28 16 16-0393 EA 30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch   | 4,589.47                  | 307.65                  |
| 26 28 16 16-0394 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch   | 5,171.50                  | 366.25                  |
| 26 28 16 16-0395 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch  | 5,730.82                  | 413.47                  |
| 26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch  | 12,298.03                 | 640.98                  |
| <b>26 28 16 16-0397</b> <b>Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0391)</small>   |                           |                         |
| 26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch   | 3,490.95                  | 366.25                  |
| 26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch  | 4,094.15                  | 413.47                  |
| 26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch  | 7,595.85                  | 640.98                  |
| <b>26 28 16 16-0401</b> <b>NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0001)</small>   |                           |                         |
| <b>26 28 16 16-0402</b> <b>Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0401)</small>   |                           |                         |
| Note: With fuses and neutral bar.  |                           |                         |
| <b>26 28 16 16-0403</b> <b>240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>        |                           |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 967.47                    | 153.82                  |
| 26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,272.42                  | 185.35                  |
| 26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 1,757.31                  | 216.89                  |
| 26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 2,977.64                  | 341.49                  |
| 26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 6,470.00                  | 530.69                  |
| 26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 11,782.40                 | 784.49                  |
| <b>26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)</b> |                           |                         |
| 26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,560.12                  | 170.74                  |
| 26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,591.38                  | 206.12                  |
| 26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 2,324.73                  | 240.73                  |
| 26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 3,635.13                  | 379.94                  |
| 26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 8,070.22                  | 589.14                  |
| 26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 16,136.78                 | 871.40                  |
| <b>26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)</b> |                           |                         |
| 26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,328.27                  | 241.50                  |
| 26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,848.41                  | 320.72                  |
| 26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 2,570.63                  | 356.10                  |
| 26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 3,804.50                  | 557.60                  |
| 26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 7,571.73                  | 915.24                  |
| 26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 12,265.19                 | 1,282.11                |
| <b>26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)</b> |                           |                         |
| 26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,801.14                  | 266.88                  |
| 26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 2,008.38                  | 356.10                  |
| 26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 3,033.04                  | 400.71                  |
| 26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 4,398.10                  | 610.68                  |
| 26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 9,388.97                  | 986.00                  |
| 26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 17,916.27                 | 1,424.38                |
| <b>26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)</b> |                           |                         |
| 26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,429.12                  | 241.50                  |
| 26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....        | 1,917.70                  | 320.72                  |
| 26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 2,788.09                  | 356.10                  |
| 26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 4,077.52                  | 557.60                  |
| 26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 8,302.73                  | 915.24                  |
| 26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....       | 12,759.04                 | 1,282.11                |
| <b>26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)</b> |                           |                         |



| MINOR    | CSI     | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|---|------------------------|----------------------|
| 26 28 16 | 16-0439 | EA  | 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....  | 1,918.06               | 266.88               |
| 26 28 16 | 16-0440 | EA  | 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....  | 2,320.27               | 356.10               |
| 26 28 16 | 16-0441 | EA  | 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch ..... | 3,247.49               | 400.71               |
| 26 28 16 | 16-0442 | EA  | 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch ..... | 4,807.43               | 610.68               |
| 26 28 16 | 16-0443 | EA  | 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch ..... | 10,051.70              | 986.00               |
| 26 28 16 | 16-0444 | EA  | 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch ..... | 18,462.05              | 1,424.38             |
| 26 28 16 | 16-0445 |     | <b>Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b>  |                        |                      |
|          |         |     | <small>(26 28 16 16-0401)</small>   |                        |                      |
| 26 28 16 | 16-0446 |     | <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b>                       |                        |                      |
|          |         |     | <small>(26 28 16 16-0445)</small>   |                        |                      |
| 26 28 16 | 16-0447 | EA  | 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,016.55               | 222.27               |
| 26 28 16 | 16-0448 | EA  | 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,342.10               | 309.95               |
| 26 28 16 | 16-0449 | EA  | 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 1,801.98               | 356.10               |
| 26 28 16 | 16-0450 | EA  | 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 2,544.91               | 569.90               |
| 26 28 16 | 16-0451 | EA  | 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 5,722.07               | 949.85               |
| 26 28 16 | 16-0452 | EA  | 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 9,147.36               | 1,295.18             |
| 26 28 16 | 16-0453 |     | <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b>                       |                        |                      |
|          |         |     | <small>(26 28 16 16-0445)</small>   |                        |                      |
| 26 28 16 | 16-0454 | EA  | 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,134.10               | 245.35               |
| 26 28 16 | 16-0455 | EA  | 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase.....  | 1,490.44               | 347.64               |
| 26 28 16 | 16-0456 | EA  | 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 2,008.90               | 395.32               |
| 26 28 16 | 16-0457 | EA  | 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 2,765.00               | 619.13               |
| 26 28 16 | 16-0458 | EA  | 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 6,052.80               | 1,017.52             |
| 26 28 16 | 16-0459 | EA  | 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 10,107.16              | 1,424.38             |
| 26 28 16 | 16-0460 |     | <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b>                       |                        |                      |
|          |         |     | <small>(26 28 16 16-0445)</small>   |                        |                      |
| 26 28 16 | 16-0461 | EA  | 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,307.86               | 199.97               |
| 26 28 16 | 16-0462 | EA  | 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,711.24               | 278.42               |
| 26 28 16 | 16-0463 | EA  | 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 2,310.13               | 320.72               |
| 26 28 16 | 16-0464 | EA  | 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 3,262.84               | 512.99               |
| 26 28 16 | 16-0465 | EA  | 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 7,014.06               | 854.48               |
| 26 28 16 | 16-0466 | EA  | 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 11,183.18              | 1,165.20             |
| 26 28 16 | 16-0467 |     | <b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b>                       |                        |                      |
|          |         |     | <small>(26 28 16 16-0445)</small>   |                        |                      |
| 26 28 16 | 16-0468 | EA  | 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,264.61               | 220.73               |
| 26 28 16 | 16-0469 | EA  | 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....               | 1,843.58               | 313.03               |
| 26 28 16 | 16-0470 | EA  | 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 2,466.46               | 356.10               |
| 26 28 16 | 16-0471 | EA  | 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 3,190.60               | 557.60               |
| 26 28 16 | 16-0472 | EA  | 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 7,006.48               | 915.24               |
| 26 28 16 | 16-0473 | EA  | 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....              | 13,382.06              | 1,282.11             |
| 26 28 16 | 16-0474 |     | <b>240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b>                       |                        |                      |
|          |         |     | <small>(26 28 16 16-0445)</small>   |                        |                      |



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                        | 1,596.38                  | 199.97                  |
| 26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                        | 1,875.31                  | 278.42                  |
| 26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                       | 2,982.32                  | 320.72                  |
| 26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                       | 4,726.34                  | 512.99                  |
| 26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                       | 8,720.18                  | 653.74                  |
| <b>26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small></b> |                           |                         |
| 26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                        | 1,650.56                  | 220.73                  |
| 26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                        | 2,038.51                  | 313.03                  |
| 26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                       | 3,177.94                  | 356.10                  |
| 26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                       | 4,837.70                  | 557.60                  |
| 26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....                       | 9,173.66                  | 861.40                  |
| <b>26 28 16 16-0486 Double Throw Safety Switches <small>(26 28 16 16-0001)</small></b>   |                           |                         |
| <b>26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small></b>  |                           |                         |
| <b>26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>                   |                           |                         |
| 26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 1,211.63                  | 197.66                  |
| 26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 1,809.83                  | 258.42                  |
| 26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 2,553.19                  | 337.64                  |
| 26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 3,411.25                  | 439.16                  |
| 26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 8,530.46                  | 549.14                  |
| 26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 15,589.45                 | 880.63                  |
| 26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 17,753.86                 | 1,230.58                |
| 26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....                                       | 26,416.46                 | 1,384.39                |
| 26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....                                       | 31,180.90                 | 1,538.21                |
| <b>26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>                   |                           |                         |
| 26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 1,512.87                  | 276.88                  |
| 26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 2,126.46                  | 361.48                  |
| 26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 3,243.22                  | 473.01                  |
| 26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 4,809.19                  | 615.28                  |
| 26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 11,747.72                 | 769.11                  |
| 26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 16,299.20                 | 1,230.58                |
| 26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 19,114.66                 | 1,384.39                |
| 26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....                                       | 27,599.03                 | 1,538.21                |
| 26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....                                       | 32,798.89                 | 1,692.04                |
| <b>26 28 16 16-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>                   |                           |                         |
| 26 28 16 16-0509 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 2,023.00                  | 346.09                  |
| 26 28 16 16-0510 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 2,973.60                  | 452.24                  |
| 26 28 16 16-0511 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 5,401.68                  | 590.67                  |
| 26 28 16 16-0512 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 7,423.49                  | 767.57                  |
| 26 28 16 16-0513 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 15,306.03                 | 961.39                  |
| 26 28 16 16-0514 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 19,174.23                 | 1,540.53                |
| 26 28 16 16-0515 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 24,419.26                 | 1,692.04                |
| 26 28 16 16-0516 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....                                       | 32,767.79                 | 1,768.95                |
| 26 28 16 16-0517 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....                                       | 36,836.23                 | 1,845.86                |
| <b>26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>                   |                           |                         |
| 26 28 16 16-0519 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....  | 2,113.74                  | 258.42                  |
| 26 28 16 16-0520 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 3,208.67                  | 337.64                  |
| 26 28 16 16-0521 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 4,764.09                  | 439.16                  |
| 26 28 16 16-0522 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....   | 11,521.53                 | 549.14                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 28 16 16-0523 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 16,989.08                 | 880.63                  |
| 26 28 16 16-0524 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 19,283.20                 | 1,230.58                |
| 26 28 16 16-0525 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....      | 28,781.22                 | 1,384.39                |
| 26 28 16 16-0526 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....      | 33,991.35                 | 1,538.21                |
| <b>26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)</b>  |                           |                         |
| 26 28 16 16-0528 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....         | 2,319.61                  | 361.48                  |
| 26 28 16 16-0529 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 3,478.52                  | 473.01                  |
| 26 28 16 16-0530 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 5,114.89                  | 615.28                  |
| 26 28 16 16-0531 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 11,961.11                 | 769.11                  |
| 26 28 16 16-0532 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 17,691.44                 | 1,230.58                |
| 26 28 16 16-0533 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 20,749.25                 | 1,384.39                |
| 26 28 16 16-0534 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....      | 28,766.76                 | 1,538.21                |
| 26 28 16 16-0535 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....      | 35,740.38                 | 1,692.04                |
| <b>26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)</b>  |                           |                         |
| 26 28 16 16-0537 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....         | 3,163.58                  | 452.24                  |
| 26 28 16 16-0538 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 5,677.38                  | 590.67                  |
| 26 28 16 16-0539 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 7,991.20                  | 767.57                  |
| 26 28 16 16-0540 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 16,517.86                 | 961.39                  |
| 26 28 16 16-0541 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 20,532.93                 | 1,540.53                |
| 26 28 16 16-0542 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 26,522.78                 | 1,692.04                |
| 26 28 16 16-0543 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....      | 35,690.79                 | 1,768.95                |
| 26 28 16 16-0544 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....      | 40,150.67                 | 1,845.86                |
| <b>26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)</b>                                      |                           |                         |
| <b>26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)</b> |                           |                         |
| 26 28 16 16-0547 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 3,242.31                  | 337.64                  |
| 26 28 16 16-0548 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 7,641.02                  | 439.16                  |
| 26 28 16 16-0549 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 25,569.52                 | 549.14                  |
| 26 28 16 16-0550 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 44,078.96                 | 880.63                  |
| <b>26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)</b> |                           |                         |
| 26 28 16 16-0552 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 4,231.42                  | 472.23                  |
| 26 28 16 16-0553 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 6,922.37                  | 614.51                  |
| 26 28 16 16-0554 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 26,239.68                 | 769.11                  |
| 26 28 16 16-0555 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 28,273.68                 | 1,232.88                |
| <b>26 28 16 16-0556 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)</b> |                           |                         |
| 26 28 16 16-0557 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 1,444.91                  | 346.25                  |
| 26 28 16 16-0558 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 5,125.96                  | 451.93                  |
| 26 28 16 16-0559 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 7,215.20                  | 590.52                  |
| 26 28 16 16-0560 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 10,485.25                 | 767.88                  |
| 26 28 16 16-0561 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 18,014.33                 | 961.39                  |
| 26 28 16 16-0562 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 20,759.85                 | 1,540.68                |
| <b>26 28 16 16-0563 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)</b> |                           |                         |
| 26 28 16 16-0564 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 2,766.99                  | 258.42                  |
| 26 28 16 16-0565 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 4,245.54                  | 337.64                  |
| 26 28 16 16-0566 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 7,835.65                  | 439.16                  |
| 26 28 16 16-0567 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 15,257.54                 | 549.14                  |
| 26 28 16 16-0568 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 20,299.32                 | 880.63                  |
| <b>26 28 16 16-0569 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)</b> |                           |                         |
| 26 28 16 16-0570 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....        | 3,092.33                  | 361.48                  |
| 26 28 16 16-0571 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 4,703.71                  | 472.23                  |
| 26 28 16 16-0572 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 8,552.55                  | 614.51                  |
| 26 28 16 16-0573 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....       | 16,442.39                 | 769.11                  |

|              |   |
|--------------|---|
| <b>26</b>    | <b>Electrical</b>                             |
| <b>26 20</b> | <b>Low-Voltage Electrical Distribution</b>    |
| <b>26 28</b> | <b>Low-Voltage Circuit Protective Devices</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 28 16 16-0574 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...                         | 21,976.17                 | 1,232.88                |
| <b>26 28 16 16-0575 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0545)</small> |                           |                         |
| 26 28 16 16-0576 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....                        | 5,170.02                  | 451.93                  |
| 26 28 16 16-0577 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....                       | 7,235.40                  | 590.52                  |
| 26 28 16 16-0578 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 10,765.88                 | 767.88                  |
| 26 28 16 16-0579 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 17,981.20                 | 961.39                  |
| 26 28 16 16-0580 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 20,942.49                 | 1,540.68                |
| <b>26 28 16 16-0581 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0486)</small>                                      |                           |                         |
| <b>26 28 16 16-0582 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small> |                           |                         |
| 26 28 16 16-0583 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 3,365.64                  | 197.82                  |
| 26 28 16 16-0584 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 3,791.58                  | 258.27                  |
| 26 28 16 16-0585 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 4,262.60                  | 337.49                  |
| 26 28 16 16-0586 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 5,875.02                  | 438.86                  |
| 26 28 16 16-0587 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 11,142.81                 | 549.30                  |
| 26 28 16 16-0588 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 16,294.36                 | 880.32                  |
| <b>26 28 16 16-0589 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small> |                           |                         |
| 26 28 16 16-0590 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 3,837.22                  | 276.88                  |
| 26 28 16 16-0591 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 4,518.14                  | 361.48                  |
| 26 28 16 16-0592 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 5,335.15                  | 472.23                  |
| 26 28 16 16-0593 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 7,465.53                  | 614.51                  |
| 26 28 16 16-0594 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 13,821.43                 | 769.11                  |
| 26 28 16 16-0595 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 18,131.54                 | 1,232.88                |
| <b>26 28 16 16-0596 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small> |                           |                         |
| 26 28 16 16-0597 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 5,774.65                  | 346.25                  |
| 26 28 16 16-0598 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 6,727.76                  | 451.93                  |
| 26 28 16 16-0599 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 9,241.74                  | 590.52                  |
| 26 28 16 16-0600 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 12,574.02                 | 767.88                  |
| 26 28 16 16-0601 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 23,559.48                 | 961.39                  |
| 26 28 16 16-0602 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 29,062.23                 | 1,540.68                |
| <b>26 28 16 16-0603 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small> |                           |                         |
| 26 28 16 16-0604 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 5,052.49                  | 258.27                  |
| 26 28 16 16-0605 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 5,272.66                  | 337.49                  |
| 26 28 16 16-0606 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 10,119.22                 | 438.86                  |
| 26 28 16 16-0607 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 14,654.20                 | 549.30                  |
| 26 28 16 16-0608 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 19,588.47                 | 880.32                  |
| <b>26 28 16 16-0609 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small> |                           |                         |
| 26 28 16 16-0610 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 5,497.77                  | 361.48                  |
| 26 28 16 16-0611 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 5,784.72                  | 472.23                  |
| 26 28 16 16-0612 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 10,955.95                 | 614.51                  |
| 26 28 16 16-0613 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 15,806.72                 | 769.11                  |
| 26 28 16 16-0614 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 21,227.14                 | 1,232.88                |
| <b>26 28 16 16-0615 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small> |                           |                         |
| 26 28 16 16-0616 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                       | 6,799.59                  | 451.93                  |
| 26 28 16 16-0617 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....                      | 9,771.63                  | 590.52                  |
| 26 28 16 16-0618 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 12,886.34                 | 767.88                  |
| 26 28 16 16-0619 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 24,231.75                 | 961.39                  |
| 26 28 16 16-0620 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...                        | 29,953.31                 | 1,540.68                |
| <b>26 28 16 16-0621 Removal And Reinstallation Of Disconnect Switches</b> <small>(26 28 16 16-0001)</small>   |                           |                         |
| Note: Includes storage and cleaning.  |                           |                         |
| 26 28 16 16-0622 EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch .....  | 769.11                    |                         |
| 26 28 16 16-0623 EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch .....  | 999.88                    |                         |
| 26 28 16 16-0624 EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch .....  | 1,115.30                  |                         |
| 26 28 16 16-0625 EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch .....  | 1,307.56                  |                         |



|                    |    |  |  | MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--------------------|----|--|--|--|---------------------------|-------------------------|
| 26 28 16 16-0626   |    |  |  | <b>Bolted Contact Switches</b> <small>(26 28 16 16)</small>  |                           |                         |
|                    |    |  |  | Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.        |                           |                         |
| 26 28 16 16-0627   |    |  |  | <b>Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0626)</small>  |                           |                         |
| 26 28 16 16-0628   |    |  |  | <b>Top Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0627)</small>  |                           |                         |
| 26 28 16 16-0629   | EA |  |  | 800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....   | 10,686.45                 | 1,538.21                |
| 26 28 16 16-0630   | EA |  |  | 1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....   | 11,628.24                 | 1,845.86                |
| 26 28 16 16-0631   | EA |  |  | 1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....   | 12,701.88                 | 2,153.50                |
| 26 28 16 16-0632   | EA |  |  | 2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....   | 13,474.15                 | 2,461.14                |
| 26 28 16 16-0633   | EA |  |  | 2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....   | 15,213.36                 | 2,768.79                |
| 26 28 16 16-0634   | EA |  |  | 3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....   | 18,949.25                 | 3,076.43                |
| 26 28 16 16-0635   | EA |  |  | 4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....   | 25,391.30                 | 3,691.72                |
| 26 28 16 16-0636   |    |  |  | <b>Bottom Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0627)</small>   |                           |                         |
| 26 28 16 16-0637   | EA |  |  | 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....  | 11,295.50                 | 1,538.21                |
| 26 28 16 16-0638   | EA |  |  | 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....  | 12,356.60                 | 1,845.86                |
| 26 28 16 16-0639   | EA |  |  | 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....  | 13,423.96                 | 2,153.50                |
| 26 28 16 16-0640   | EA |  |  | 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....  | 14,510.16                 | 2,461.14                |
| 26 28 16 16-0641   | EA |  |  | 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....  | 16,331.00                 | 2,768.79                |
| 26 28 16 16-0642   | EA |  |  | 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....  | 21,046.40                 | 3,076.43                |
| 26 28 16 16-0643   | EA |  |  | 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....  | 27,576.36                 | 3,691.72                |
| 26 28 16 16-0644   |    |  |  | <b>Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0626)</small>  |                           |                         |
| 26 28 16 16-0645   |    |  |  | <b>Top Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0644)</small>  |                           |                         |
| 26 28 16 16-0646   | EA |  |  | 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....  | 7,948.85                  | 1,538.21                |
| 26 28 16 16-0647   | EA |  |  | 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....  | 8,923.30                  | 1,845.86                |
| 26 28 16 16-0648   | EA |  |  | 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....  | 9,949.22                  | 2,153.50                |
| 26 28 16 16-0649   | EA |  |  | 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....  | 10,967.61                 | 2,461.14                |
| 26 28 16 16-0650   | EA |  |  | 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....  | 12,048.79                 | 2,768.79                |
| 26 28 16 16-0651   | EA |  |  | 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....  | 15,784.68                 | 3,076.43                |
| 26 28 16 16-0652   | EA |  |  | 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....  | 22,151.39                 | 3,691.72                |
| 26 28 16 16-0653   |    |  |  | <b>Bottom Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0644)</small>   |                           |                         |
| 26 28 16 16-0654   | EA |  |  | 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....   | 8,351.96                  | 1,538.21                |
| 26 28 16 16-0655   | EA |  |  | 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....   | 9,532.35                  | 1,845.86                |
| 26 28 16 16-0656   | EA |  |  | 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....   | 10,539.43                 | 2,153.50                |
| 26 28 16 16-0657   | EA |  |  | 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....   | 11,747.45                 | 2,461.14                |
| 26 28 16 16-0658   | EA |  |  | 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....   | 13,028.30                 | 2,768.79                |
| 26 28 16 16-0659   | EA |  |  | 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....   | 17,724.86                 | 3,076.43                |
| 26 28 16 16-0660   | EA |  |  | 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....   | 24,185.75                 | 3,691.72                |
| <b>26 29</b>       |    |  |  | <b>Low-Voltage Controllers</b> <small>(26 20)</small>  |                           |                         |
| <b>26 29 13</b>    |    |  |  | <b>Enclosed Controllers</b> <small>(26 29)</small>   |                           |                         |
| <b>26 29 13 13</b> |    |  |  | <b>Across-The-Line Motor Controllers</b> <small>(26 29 13)</small>   |                           |                         |
| 26 29 13 13-0001   |    |  |  | <b>Manual Motor Starters</b> <small>(26 29 13 13)</small>  |                           |                         |
| 26 29 13 13-0002   |    |  |  | <b>Fractional HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>   |                           |                         |
| 26 29 13 13-0003   | EA |  |  | NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....                       | 263.69                    | 77.01                   |
|                    |    |  |  | For Flush Cover Plate In Lieu Of NEMA 1, Deduct  | -3.06                     |                         |
|                    |    |  |  | For Oversized Enclosure, Add   | 30.60                     |                         |
|                    |    |  |  | For Pilot Light, Add   | 44.88                     |                         |
| 26 29 13 13-0004   | EA |  |  | NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....                       | 345.10                    | 100.11                  |
|                    |    |  |  | For Flush Cover Plate In Lieu Of NEMA 1, Deduct  | -3.06                     |                         |
|                    |    |  |  | For Oversized Enclosure, Add   | 30.60                     |                         |
|                    |    |  |  | For Pilot Light, Add   | 44.88                     |                         |
| 26 29 13 13-0005   | EA |  |  | NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....                          | 294.29                    | 77.01                   |
|                    |    |  |  | For Flush Cover Plate In Lieu Of NEMA 1, Deduct  | -3.06                     |                         |
|                    |    |  |  | For Oversized Enclosure, Add   | 30.60                     |                         |
|                    |    |  |  | For Pilot Light, Add   | 44.88                     |                         |
| 26 29 13 13-0006   | EA |  |  | NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....                          | 375.70                    | 100.11                  |
|                    |    |  |  | For Flush Cover Plate In Lieu Of NEMA 1, Deduct  | -3.06                     |                         |
|                    |    |  |  | For Oversized Enclosure, Add   | 30.60                     |                         |
|                    |    |  |  | For Pilot Light, Add   | 44.88                     |                         |
| 26 29 13 13-0007   | EA |  |  | NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5)..... | 276.95                    | 77.01                   |
|                    |    |  |  | For Oversized Enclosure, Add   | 30.60                     |                         |
| 26 29 13 13-0008   | EA |  |  | NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6)..... | 362.44                    | 100.11                  |
|                    |    |  |  | For Oversized Enclosure, Add   | 30.60                     |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....  | 533.18                    | 92.41                   |
| <i>For Pilot Light, Add</i>   | 117.31                    |                         |
| 26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....  | 617.66                    | 115.51                  |
| <i>For Pilot Light, Add</i>   | 117.31                    |                         |
| 26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....  | 563.79                    | 92.41                   |
| 26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....  | 645.20                    | 115.51                  |
| <b>26 29 13 13-0013 Non-Reversing Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>   |                           |                         |
| 26 29 13 13-0014 EA NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....                | 218.98                    | 77.01                   |
| Note: NEMA 1 or flush cover plate installation.   |                           |                         |
| <i>For Oversize Enclosure, Add</i>  | 14.76                     |                         |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0015 EA NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....           | 346.89                    | 100.11                  |
| Note: NEMA 1 or flush cover plate installation.   |                           |                         |
| <i>For Oversize Enclosure, Add</i>  | 14.76                     |                         |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0016 EA NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....            | 246.19                    | 84.71                   |
| Note: NEMA 1 or flush cover plate installation.   |                           |                         |
| <i>For Oversize Enclosure, Add</i>  | 14.76                     |                         |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0017 EA NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....           | 375.07                    | 107.82                  |
| Note: NEMA 1 or flush cover plate installation.   |                           |                         |
| <i>For Oversize Enclosure, Add</i>  | 14.76                     |                         |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0018 EA NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....                   | 247.53                    | 77.01                   |
| Note: NEMA 1 or flush cover plate installation.   |                           |                         |
| <i>For Oversize Enclosure, Add</i>  | 14.76                     |                         |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0019 EA NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....              | 376.42                    | 100.11                  |
| Note: NEMA 1 or flush cover plate installation.   |                           |                         |
| <i>For Oversize Enclosure, Add</i>  | 14.76                     |                         |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0020 EA NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....                | 493.88                    | 92.41                   |
| <i>For Pilot Light, Add</i>   | 112.21                    |                         |
| 26 29 13 13-0021 EA NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....           | 610.96                    | 115.51                  |
| <i>For Pilot Light, Add</i>   | 112.21                    |                         |
| 26 29 13 13-0022 EA NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....            | 522.09                    | 100.11                  |
| <i>For Pilot Light, Add</i>   | 112.21                    |                         |
| 26 29 13 13-0023 EA NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....           | 636.21                    | 123.21                  |
| <i>For Pilot Light, Add</i>   | 112.21                    |                         |
| 26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....      | 521.44                    | 92.41                   |
| 26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2)..... | 646.40                    | 115.51                  |
| 26 29 13 13-0026 EA Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....             | 159.00                    | 53.90                   |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0027 EA Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....        | 286.90                    | 77.01                   |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0028 EA Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....         | 186.20                    | 61.61                   |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| 26 29 13 13-0029 EA Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....        | 314.11                    | 84.71                   |
| <i>For Pilot Light, Add</i>   | 70.87                     |                         |
| <b>26 29 13 13-0030 Reversing Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>   |                           |                         |
| 26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....                   | 559.73                    | 138.62                  |
| <i>For Pilot Light, Add</i>   | 114.18                    |                         |
| 26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....              | 803.72                    | 184.82                  |
| <i>For Pilot Light, Add</i>   | 114.18                    |                         |
| <b>26 29 13 13-0033 Two Speed Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>   |                           |                         |
| 26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....                   | 559.73                    | 138.62                  |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
| 26 29 13 13-0035        | EA    |     |     | NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22) .....                   | 803.72                 | 184.82               |
| <b>26 29 13 13-0036</b> |       |     |     | <b>Non-Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small></b>  |                        |                      |
| 26 29 13 13-0037        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1) .....   | 498.00                 | 92.41                |
| 26 29 13 13-0038        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1) .....  | 498.00                 | 92.41                |
| 26 29 13 13-0039        | EA    |     |     | NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11) .....  | 993.95                 | 107.82               |
| 26 29 13 13-0040        | EA    |     |     | NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1) .....       | 993.95                 | 107.82               |
| 26 29 13 13-0041        | EA    |     |     | NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1) .....  | 1,283.65               | 107.82               |
| 26 29 13 13-0042        | EA    |     |     | Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1) .....  | 629.79                 | 107.82               |
| 26 29 13 13-0043        | EA    |     |     | Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1) .....   | 421.20                 | 69.31                |
| 26 29 13 13-0044        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1) .....   | 586.86                 | 100.11               |
| 26 29 13 13-0045        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1) .....  | 586.86                 | 100.11               |
| 26 29 13 13-0046        | EA    |     |     | NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11) .....  | 1,183.80               | 115.51               |
| 26 29 13 13-0047        | EA    |     |     | NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1) .....       | 1,183.80               | 115.51               |
| 26 29 13 13-0048        | EA    |     |     | NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1) .....  | 1,495.94               | 115.51               |
| 26 29 13 13-0049        | EA    |     |     | Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1) .....  | 718.64                 | 115.51               |
| 26 29 13 13-0050        | EA    |     |     | Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1) .....   | 510.04                 | 77.01                |
| 26 29 13 13-0051        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2) .....  | 760.36                 | 107.82               |
| 26 29 13 13-0052        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2) .....   | 760.36                 | 107.82               |
| 26 29 13 13-0053        | EA    |     |     | NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12) .....   | 1,401.18               | 123.21               |
| 26 29 13 13-0054        | EA    |     |     | NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2) .....      | 1,401.18               | 123.21               |
| 26 29 13 13-0055        | EA    |     |     | NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2) ..... | 1,700.06               | 123.21               |
| 26 29 13 13-0056        | EA    |     |     | Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2) .....   | 895.22                 | 123.21               |
| 26 29 13 13-0057        | EA    |     |     | Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2) .....  | 686.61                 | 84.71                |
| 26 29 13 13-0058        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2) .....   | 617.15                 | 115.51               |
| 26 29 13 13-0059        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2) .....  | 617.15                 | 115.51               |
| 26 29 13 13-0060        | EA    |     |     | NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12) .....  | 1,113.11               | 130.92               |
| 26 29 13 13-0061        | EA    |     |     | NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2) .....       | 1,113.11               | 130.92               |
| 26 29 13 13-0062        | EA    |     |     | NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2) .....  | 1,410.97               | 130.92               |
| 26 29 13 13-0063        | EA    |     |     | Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2) .....  | 749.96                 | 130.92               |
| 26 29 13 13-0064        | EA    |     |     | Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2) .....   | 543.40                 | 92.41                |
| 26 29 13 13-0065        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3) .....   | 706.01                 | 123.21               |
| 26 29 13 13-0066        | EA    |     |     | NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3) .....  | 706.01                 | 123.21               |
| 26 29 13 13-0067        | EA    |     |     | NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13) .....  | 1,302.95               | 138.62               |
| 26 29 13 13-0068        | EA    |     |     | NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3) .....       | 1,302.95               | 138.62               |
| 26 29 13 13-0069        | EA    |     |     | NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3) .....  | 1,622.23               | 138.62               |
| 26 29 13 13-0070        | EA    |     |     | Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3) .....  | 837.80                 | 138.62               |
| 26 29 13 13-0071        | EA    |     |     | Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3) .....   | 629.20                 | 100.11               |
| <b>26 29 13 13-0072</b> |       |     |     | <b>Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small></b>  |                        |                      |
| 26 29 13 13-0073        | EA    |     |     | NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1) .....   | 1,393.01               | 161.72               |
| 26 29 13 13-0074        | EA    |     |     | NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1) .....  | 1,393.01               | 161.72               |
| 26 29 13 13-0075        | EA    |     |     | Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1) .....   | 1,213.90               | 115.51               |

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 29 13 13-0076        | EA  | NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....                      | 1,641.09                  | 177.13                  |
| 26 29 13 13-0077        | EA  | Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....                        | 1,461.97                  | 130.92                  |
| <b>26 29 13 13-0078</b> |     | <b>Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)</b>   |                           |                         |
| 26 29 13 13-0079        | EA  | NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....                      | 1,393.01                  | 161.72                  |
| 26 29 13 13-0080        | EA  | Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....                        | 1,213.90                  | 115.51                  |
| 26 29 13 13-0081        | EA  | NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....                      | 1,641.09                  | 177.13                  |
| 26 29 13 13-0082        | EA  | Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....                        | 1,461.97                  | 130.92                  |
| <b>26 29 13 13-0083</b> |     | <b>Magnetic Motor Starters (26 29 13 13)</b>  |                           |                         |
| <b>26 29 13 13-0084</b> |     | <b>Non-Reversing, Magnetic Contactors (26 29 13 13-0083)</b>  |                           |                         |
| <b>26 29 13 13-0085</b> |     | <b>Open Enclosure, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)</b>  |                           |                         |
| 26 29 13 13-0086        | EA  | Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11).....               | 600.80                    | 154.02                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -308.04                   |                         |
| 26 29 13 13-0087        | EA  | Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12).....               | 674.45                    | 169.42                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -338.85                   |                         |
| 26 29 13 13-0088        | EA  | Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5).....                    | 643.64                    | 154.02                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -308.04                   |                         |
| 26 29 13 13-0089        | EA  | Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1).....                    | 718.32                    | 169.42                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -338.85                   |                         |
| 26 29 13 13-0090        | EA  | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2).....                    | 791.96                    | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -369.65                   |                         |
| 26 29 13 13-0091        | EA  | Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3).....                    | 999.64                    | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0092        | EA  | Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4).....                    | 1,252.20                  | 277.24                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -554.47                   |                         |
| 26 29 13 13-0093        | EA  | Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....               | 745.86                    | 169.42                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -338.85                   |                         |
| 26 29 13 13-0094        | EA  | Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....               | 819.50                    | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -369.65                   |                         |
| 26 29 13 13-0095        | EA  | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....               | 895.18                    | 200.23                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -400.45                   |                         |
| 26 29 13 13-0096        | EA  | Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....               | 1,150.09                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -539.07                   |                         |
| 26 29 13 13-0097        | EA  | Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....               | 1,401.63                  | 315.74                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -631.48                   |                         |
| 26 29 13 13-0098        | EA  | Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....   | 1,213.25                  | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -369.65                   |                         |
| 26 29 13 13-0099        | EA  | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....   | 1,361.76                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0100        | EA  | Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....   | 1,777.94                  | 308.04                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -616.08                   |                         |
| 26 29 13 13-0101        | EA  | Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....   | 1,798.35                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0102        | EA  | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....   | 2,069.68                  | 308.04                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -616.08                   |                         |
| 26 29 13 13-0103        | EA  | Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....   | 2,629.69                  | 385.05                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -770.10                   |                         |
| 26 29 13 13-0104        | EA  | Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....   | 3,714.02                  | 462.06                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -924.12                   |                         |
| 26 29 13 13-0105        | EA  | Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1)..... | 3,995.57                  | 385.05                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -770.10                   |                         |
| 26 29 13 13-0106        | EA  | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2)..... | 4,411.75                  | 462.06                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -924.12                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3) .....    | 5,930.62                  | 539.07                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -1,078.14                 |                         |
| 26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....    | 7,913.65                  | 462.06                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -924.12                   |                         |
| 26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....    | 8,832.72                  | 616.08                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -1,232.16                 |                         |
| 26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....   | 22,595.48                 | 924.12                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -1,848.24                 |                         |
| 26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2) .....                      | 32,383.01                 | 1,386.18                |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -2,772.36                 |                         |
| <b>26 29 13 13-0112 NEMA 1, Non-Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>  |                           |                         |
| 26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....                 | 632.42                    | 154.02                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -308.04                   |                         |
| 26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....                 | 706.08                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -338.85                   |                         |
| 26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....                      | 675.27                    | 154.02                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -308.04                   |                         |
| 26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....                      | 750.96                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -338.85                   |                         |
| 26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....                      | 824.60                    | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -369.65                   |                         |
| 26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....                      | 1,034.32                  | 231.03                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -462.06                   |                         |
| 26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....                      | 1,287.90                  | 277.24                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -554.47                   |                         |
| 26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....                 | 779.52                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -338.85                   |                         |
| 26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1) .....                | 855.20                    | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -369.65                   |                         |
| 26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2).....                 | 928.85                    | 200.23                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -400.45                   |                         |
| 26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3).....                 | 1,184.78                  | 269.54                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -539.07                   |                         |
| 26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4) .....                | 1,435.30                  | 315.74                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -631.48                   |                         |
| 26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1).....     | 1,364.22                  | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -369.65                   |                         |
| 26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2).....     | 1,513.75                  | 231.03                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -462.06                   |                         |
| 26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3).....     | 1,928.91                  | 308.04                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -616.08                   |                         |
| 26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1).....     | 2,095.20                  | 231.03                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -462.06                   |                         |
| 26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2).....     | 2,365.50                  | 308.04                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -616.08                   |                         |
| 26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3).....     | 2,926.53                  | 385.05                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -770.10                   |                         |
| 26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1).....   | 4,610.67                  | 385.05                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -770.10                   |                         |
| 26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2).....   | 5,026.85                  | 462.06                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -924.12                   |                         |
| 26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2).....  | 9,953.78                  | 616.08                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -1,232.16                 |                         |
| 26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2)..... | 27,525.49                 | 924.12                  |
| <i>For Factory Installed Accessory, Deduct</i> .....  | -1,848.24                 |                         |



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJG2) .....<br><i>For Factory Installed Accessory, Deduct</i>                        | 37,327.30<br>-2,772.36    | 1,386.18                |
| <b>26 29 13 13-0136 NEMA 12, Non-Reversing, Magnetic Contactors</b> (26 29 13 13-0084)  |                           |                         |
| 26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1) .....<br><i>For Factory Installed Accessory, Deduct</i>                        | 925.39<br>-338.85         | 169.42                  |
| 26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2) .....<br><i>For Factory Installed Accessory, Deduct</i>                        | 999.03<br>-369.65         | 184.82                  |
| 26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2) .....<br><i>For Factory Installed Accessory, Deduct</i>                   | 1,103.28<br>-400.45       | 200.23                  |
| 26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1) .....<br><i>For Factory Installed Accessory, Deduct</i>       | 1,682.48<br>-369.65       | 184.82                  |
| 26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2) .....<br><i>For Factory Installed Accessory, Deduct</i>       | 1,833.04<br>-462.06       | 231.03                  |
| 26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1) .....<br><i>For Factory Installed Accessory, Deduct</i>       | 2,472.62<br>-462.06       | 231.03                  |
| 26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2) .....<br><i>For Factory Installed Accessory, Deduct</i>       | 2,741.91<br>-616.08       | 308.04                  |
| 26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2) .....<br><i>For Factory Installed Accessory, Deduct</i>     | 6,276.44<br>-924.12       | 462.06                  |
| 26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2) .....<br><i>For Factory Installed Accessory, Deduct</i>    | 13,151.70<br>-1,232.16    | 616.08                  |
| 26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 31,446.65<br>-1,848.24    | 924.12                  |
| <b>26 29 13 13-0147 NEMA 4/4X, Non-Reversing, Magnetic Contactors</b> (26 29 13 13-0084)<br>Note: Brushed stainless steel enclosure.  |                           |                         |
| 26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12) .....<br><i>For Factory Installed Accessory, Deduct</i>                     | 1,333.62<br>-369.65       | 184.82                  |
| 26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11) .....<br><i>For Factory Installed Accessory, Deduct</i>                | 1,378.50<br>-369.65       | 184.82                  |
| 26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12) .....<br><i>For Factory Installed Accessory, Deduct</i>                | 1,452.14<br>-400.45       | 200.23                  |
| 26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13) .....<br><i>For Factory Installed Accessory, Deduct</i>                | 1,708.07<br>-539.07       | 269.54                  |
| 26 29 13 13-0152 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12) .....<br><i>For Factory Installed Accessory, Deduct</i>    | 2,560.35<br>-462.06       | 231.03                  |
| 26 29 13 13-0153 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12) .....<br><i>For Factory Installed Accessory, Deduct</i>    | 3,846.65<br>-616.08       | 308.04                  |
| 26 29 13 13-0154 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 7,555.61<br>-924.12       | 462.06                  |
| 26 29 13 13-0155 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12) .....<br><i>For Factory Installed Accessory, Deduct</i> | 13,151.70<br>-1,232.16    | 616.08                  |
| 26 29 13 13-0156 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2) .....<br><i>For Factory Installed Accessory, Deduct</i> | 34,788.40<br>-1,848.24    | 924.12                  |
| <b>26 29 13 13-0157 NEMA 7/9, Non-Reversing, Magnetic Contactors</b> (26 29 13 13-0084)<br>Note: Bolted cast iron enclosure.  |                           |                         |
| 26 29 13 13-0158 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2) .....<br><i>For Factory Installed Accessory, Deduct</i>                       | 2,604.41<br>-492.86       | 246.44                  |
| <b>26 29 13 13-0159 Non-Reversing, Magnetic Starters</b> (26 29 13 13-0083)   |                           |                         |
| <b>26 29 13 13-0160 Open Enclosure, Non-Reversing, Magnetic Starters</b> (26 29 13 13-0159)   |                           |                         |
| 26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11) .....<br><i>For Factory Installed Accessory, Deduct</i>                      | 701.79<br>-308.04         | 154.02                  |
| 26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12) .....<br><i>For Factory Installed Accessory, Deduct</i>            | 732.60<br>-338.85         | 169.42                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1).....                               | 782.58                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -338.85                   |                         |
| 26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2).....                       | 864.38                    | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4).....                       | 1,379.71                  | 277.24                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -554.47                   |                         |
| 26 29 13 13-0166 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1).....                               | 886.83                    | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0167 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3).....                  | 1,032.89                  | 200.23                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0168 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2).....                       | 1,075.74                  | 200.23                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0169 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6).....                           | 1,306.08                  | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0170 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1).....      | 1,493.35                  | 231.03                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -462.06                   |                         |
| 26 29 13 13-0171 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1).....      | 2,286.96                  | 308.04                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -616.08                   |                         |
| 26 29 13 13-0172 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1).....    | 4,746.33                  | 462.06                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -924.12                   |                         |
| 26 29 13 13-0173 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1).....   | 10,567.86                 | 616.08                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -1,232.16                 |                         |
| 26 29 13 13-0174 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2).....  | 24,040.93                 | 924.12                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -1,848.24                 |                         |
| 26 29 13 13-0175 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2).....                      | 34,659.81                 | 1,386.18                |
| <i>For Factory Installed Accessory, Deduct</i>   | -2,772.36                 |                         |
| <b>26 29 13 13-0176 NEMA 1, Non-Reversing, Magnetic Starters (26 29 13 13-0159)</b>  |                           |                         |
| 26 29 13 13-0177 EA Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11).....                          | 735.45                    | 154.02                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -308.04                   |                         |
| 26 29 13 13-0178 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12).....                | 766.26                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -338.85                   |                         |
| 26 29 13 13-0179 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1).....                             | 816.24                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -338.85                   |                         |
| 26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2).....                     | 898.05                    | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1).....                             | 919.47                    | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3).....                | 1,002.29                  | 200.23                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2).....                     | 1,110.42                  | 200.23                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6).....                         | 1,458.07                  | 184.82                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1).....    | 1,645.34                  | 231.03                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -462.06                   |                         |
| 26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1).....    | 2,583.80                  | 308.04                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -616.08                   |                         |
| 26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1).....  | 5,361.43                  | 462.06                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -924.12                   |                         |
| 26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1)..... | 11,691.98                 | 616.08                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -1,232.16                 |                         |
| <b>26 29 13 13-0189 NEMA 12, Non-Reversing, Magnetic Starters (26 29 13 13-0159)</b>   |                           |                         |
| 26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1).....                            | 990.68                    | 169.42                  |
| <i>For Factory Installed Accessory, Deduct</i>   | -338.85                   |                         |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 29 13 13-0191        | EA  |     | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2).....                              | 1,072.48               | 184.82               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                |                      |
| 26 29 13 13-0192        | EA  |     | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1).....                                      | 1,093.90               | 184.82               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                |                      |
| 26 29 13 13-0193        | EA  |     | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3).....                         | 1,176.72               | 200.23               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                |                      |
| 26 29 13 13-0194        | EA  |     | Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2).....                              | 1,284.85               | 200.23               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                |                      |
| 26 29 13 13-0195        | EA  |     | Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6).....                                  | 1,777.35               | 184.82               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                |                      |
| 26 29 13 13-0196        | EA  |     | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1).....             | 1,963.61               | 231.03               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -462.06                |                      |
| 26 29 13 13-0197        | EA  |     | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1).....             | 2,960.21               | 308.04               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -616.08                |                      |
| 26 29 13 13-0198        | EA  |     | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1).....           | 6,610.00               | 462.06               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -924.12                |                      |
| 26 29 13 13-0199        | EA  |     | Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1).....          | 14,886.84              | 616.08               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -1,232.16              |                      |
| 26 29 13 13-0200        | EA  |     | Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2).....         | 35,232.14              | 924.12               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -1,848.24              |                      |
| <b>26 29 13 13-0201</b> |     |     | <b>NEMA 3R, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0195)</small>   |                        |                      |
| 26 29 13 13-0202        | EA  |     | Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1).....                                      | 990.68                 | 169.42               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -338.85                |                      |
| 26 29 13 13-0203        | EA  |     | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2).....                              | 1,072.48               | 184.82               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                |                      |
| 26 29 13 13-0204        | EA  |     | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1).....                                      | 1,093.90               | 184.82               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                |                      |
| 26 29 13 13-0205        | EA  |     | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3).....                         | 1,176.72               | 200.23               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                |                      |
| 26 29 13 13-0206        | EA  |     | Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2).....                              | 1,284.85               | 200.23               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                |                      |
| 26 29 13 13-0207        | EA  |     | Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6).....                                  | 1,777.35               | 184.82               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                |                      |
| 26 29 13 13-0208        | EA  |     | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1).....             | 1,963.61               | 231.03               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -462.06                |                      |
| 26 29 13 13-0209        | EA  |     | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1).....             | 2,960.21               | 308.04               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -616.08                |                      |
| 26 29 13 13-0210        | EA  |     | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1).....           | 6,610.00               | 462.06               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -924.12                |                      |
| <b>26 29 13 13-0211</b> |     |     | <b>NEMA 3R/4/4X/7/9, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0195)</small>  |                        |                      |
|                         |     |     | Note: Bolted cast aluminum enclosure.  |                        |                      |
| 26 29 13 13-0212        | EA  |     | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4).....                     | 2,716.82               | 261.83               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -523.67                |                      |
| 26 29 13 13-0213        | EA  |     | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1).....                             | 3,310.51               | 261.83               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -523.67                |                      |
| 26 29 13 13-0214        | EA  |     | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3).....                | 3,414.75               | 277.24               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -554.47                |                      |
| 26 29 13 13-0215        | EA  |     | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1).....    | 5,233.95               | 308.04               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -616.08                |                      |
| 26 29 13 13-0216        | EA  |     | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43).....   | 6,318.27               | 385.05               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -770.10                |                      |
| 26 29 13 13-0217        | EA  |     | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41)..... | 10,032.33              | 539.07               |
|                         |     |     | <i>For Factory Installed Accessory, Deduct</i>   | -1,078.14              |                      |



|                  | MINOR<br>CSI UOM DESCRIPTION |  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|------------------------------|--|---------------------------|-------------------------|
| 26 29 13 13-0218 |                              | <b>NEMA 4/4X, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>   |                           |                         |
|                  |                              | Note: Brushed stainless steel enclosure.   |                           |                         |
| 26 29 13 13-0219 | EA                           | Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11).....                             | 1,324.24                  | 169.42                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -338.85                   |                         |
| 26 29 13 13-0220 | EA                           | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12).....                     | 1,407.06                  | 184.82                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0221 | EA                           | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11).....                             | 1,442.77                  | 184.82                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0222 | EA                           | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13).....                | 1,525.59                  | 200.23                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0223 | EA                           | Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12).....                 | 1,633.72                  | 200.23                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0224 | EA                           | Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16).....                         | 2,502.62                  | 184.82                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -369.65                   |                         |
| 26 29 13 13-0225 | EA                           | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11).....    | 4,063.92                  | 308.04                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -616.08                   |                         |
| 26 29 13 13-0226 | EA                           | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11).....  | 7,888.15                  | 462.06                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -924.12                   |                         |
| 26 29 13 13-0227 | EA                           | Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11)..... | 17,344.20                 | 616.08                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -1,232.16                 |                         |
| 26 29 13 13-0228 |                              | <b>NEMA 4X, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>   |                           |                         |
|                  |                              | Note: Glass polyester enclosure.   |                           |                         |
| 26 29 13 13-0229 | EA                           | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21).....      | 2,691.94                  | 231.03                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -462.06                   |                         |
| 26 29 13 13-0230 | EA                           | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21).....      | 4,926.90                  | 308.04                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -616.08                   |                         |
| 26 29 13 13-0231 | EA                           | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21).....    | 9,630.43                  | 462.06                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -924.12                   |                         |
| 26 29 13 13-0232 |                              | <b>NEMA 7/9, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small>  |                           |                         |
|                  |                              | Note: Bolted cast iron enclosure.  |                           |                         |
| 26 29 13 13-0233 | EA                           | Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1).....                               | 2,625.83                  | 246.44                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -492.86                   |                         |
| 26 29 13 13-0234 | EA                           | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2).....                       | 2,716.82                  | 261.83                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -523.67                   |                         |
| 26 29 13 13-0235 | EA                           | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1).....                               | 2,753.55                  | 261.83                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -523.67                   |                         |
| 26 29 13 13-0236 | EA                           | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3).....                  | 2,840.45                  | 277.24                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -554.47                   |                         |
| 26 29 13 13-0237 | EA                           | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2).....                               | 2,964.90                  | 277.24                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -554.47                   |                         |
| 26 29 13 13-0238 | EA                           | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1).....      | 4,311.80                  | 308.04                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -616.08                   |                         |
| 26 29 13 13-0239 |                              | <b>Reversing, Magnetic Starters</b> <small>(26 29 13 13-0083)</small>  |                           |                         |
| 26 29 13 13-0240 |                              | <b>Open Enclosure, Reversing, Magnetic Starters</b> <small>(26 29 13 13-0239)</small>  |                           |                         |
| 26 29 13 13-0241 | EA                           | Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....                                    | 1,280.77                  | 200.23                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0242 | EA                           | Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....                          | 1,345.04                  | 200.23                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -400.45                   |                         |
| 26 29 13 13-0243 | EA                           | Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....                                       | 1,486.01                  | 215.62                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -431.26                   |                         |
| 26 29 13 13-0244 | EA                           | Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....                                       | 1,545.38                  | 231.03                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -462.06                   |                         |
| 26 29 13 13-0245 | EA                           | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....                              | 1,581.08                  | 231.03                  |
|                  |                              | <i>For Factory Installed Accessory, Deduct</i>   | -462.06                   |                         |



| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 26 29 13 13-0246        | EA  | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....                              | 1,691.44                  | 246.44                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -492.86                   |                         |
| 26 29 13 13-0247        | EA  | Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....                              | 1,768.26                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -539.07                   |                         |
| 26 29 13 13-0248        | EA  | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....                 | 1,804.98                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -539.07                   |                         |
| 26 29 13 13-0249        | EA  | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....     | 3,012.23                  | 308.04                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -616.08                   |                         |
| 26 29 13 13-0250        | EA  | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....     | 4,904.44                  | 462.06                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -924.12                   |                         |
| 26 29 13 13-0251        | EA  | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....        | 11,107.47                 | 693.09                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -1,386.18                 |                         |
| 26 29 13 13-0252        | EA  | Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....  | 20,524.74                 | 924.12                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -1,848.24                 |                         |
| 26 29 13 13-0253        | EA  | Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....                     | 65,867.85                 | 1,694.22                |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -3,388.44                 |                         |
| <b>26 29 13 13-0254</b> |     | <b>NEMA 1, Reversing, Magnetic Starters</b> <small>(26 29 13 13-0239)</small>   |                           |                         |
| 26 29 13 13-0255        | EA  | Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....                         | 1,311.18                  | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -369.65                   |                         |
| 26 29 13 13-0256        | EA  | Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....                         | 1,372.58                  | 200.23                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -400.45                   |                         |
| 26 29 13 13-0257        | EA  | Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....               | 1,409.30                  | 200.23                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -400.45                   |                         |
| 26 29 13 13-0258        | EA  | Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....                            | 1,547.22                  | 215.62                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -431.26                   |                         |
| 26 29 13 13-0259        | EA  | Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....                            | 1,608.62                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0260        | EA  | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....                    | 1,645.34                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0261        | EA  | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....                            | 1,783.25                  | 246.44                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -492.86                   |                         |
| 26 29 13 13-0262        | EA  | Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....                            | 1,860.06                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -539.07                   |                         |
| 26 29 13 13-0263        | EA  | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....               | 1,896.79                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -539.07                   |                         |
| 26 29 13 13-0264        | EA  | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....   | 3,250.93                  | 308.04                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -616.08                   |                         |
| 26 29 13 13-0265        | EA  | Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....   | 5,317.57                  | 462.06                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -924.12                   |                         |
| 26 29 13 13-0266        | EA  | Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3)..... | 11,866.40                 | 693.09                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -1,386.18                 |                         |
| <b>26 29 13 13-0267</b> |     | <b>NEMA 12, Reversing, Magnetic Starters</b> <small>(26 29 13 13-0239)</small>  |                           |                         |
| 26 29 13 13-0268        | EA  | Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....                         | 1,869.76                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0269        | EA  | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....                   | 1,906.48                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |
| 26 29 13 13-0270        | EA  | Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....              | 2,157.92                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -539.07                   |                         |
| 26 29 13 13-0271        | EA  | Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....  | 3,687.52                  | 308.04                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -616.08                   |                         |
| <b>26 29 13 13-0272</b> |     | <b>NEMA 4X, Reversing, Magnetic Starters</b> <small>(26 29 13 13-0239)</small>  |                           |                         |
|                         |     | Note: Brushed stainless steel enclosure.  |                           |                         |
| 26 29 13 13-0273        | EA  | Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....                | 2,312.47                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i>  | -462.06                   |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Electrical</b>                          | <b>26</b>    | <b>26</b> |
| <b>Low-Voltage Electrical Distribution</b> | <b>26 20</b> |           |
| <b>Low-Voltage Controllers</b>             | <b>26 29</b> |           |

| MINOR           | CSI            | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|-----|---|------------------------|----------------------|
| 26 29 13        | 13-0274        | EA  | Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11) .....<br><i>For Factory Installed Accessory, Deduct</i>             | 2,713.56<br>-492.86    | 246.44               |
| <b>26 29 13</b> | <b>13-0275</b> |     | <b>Magnetic Contactor/Starters Accessories</b> <small>(26 29 13 13-0083)</small>  |                        |                      |
| 26 29 13        | 13-0276        | EA  | NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 173.45<br>-38.51       | 19.25                |
| 26 29 13        | 13-0277        | EA  | NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 288.61<br>-38.51       | 19.25                |
| 26 29 13        | 13-0278        | EA  | NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 173.45<br>-38.51       | 19.25                |
| 26 29 13        | 13-0279        | EA  | NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 288.61<br>-38.51       | 19.25                |
| 26 29 13        | 13-0280        | EA  | NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 288.61<br>-38.51       | 19.25                |
| 26 29 13        | 13-0281        | EA  | Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 145.96<br>-30.80       | 15.41                |
| 26 29 13        | 13-0282        | EA  | External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 130.84<br>-30.80       | 15.41                |
| 26 29 13        | 13-0283        | EA  | External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 173.45<br>-38.51       | 19.25                |
| 26 29 13        | 13-0284        | EA  | External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 145.96<br>-30.80       | 15.41                |
| 26 29 13        | 13-0285        | EA  | External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 194.38<br>-38.51       | 19.25                |
| 26 29 13        | 13-0286        | EA  | 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 214.59<br>-30.80       | 15.41                |
| 26 29 13        | 13-0287        | EA  | 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 364.65<br>-30.80       | 15.41                |
| 26 29 13        | 13-0288        | EA  | 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 386.75<br>-30.80       | 15.41                |
| 26 29 13        | 13-0289        | EA  | 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 463.09<br>-38.51       | 19.25                |
| 26 29 13        | 13-0290        | EA  | 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 801.60<br>-38.51       | 19.25                |
| 26 29 13        | 13-0291        | EA  | 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 801.60<br>-38.51       | 19.25                |
| 26 29 13        | 13-0292        | EA  | Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 53.47<br>-23.10        | 11.56                |
| 26 29 13        | 13-0293        | EA  | 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 105.25<br>-30.80       | 15.41                |
| 26 29 13        | 13-0294        | EA  | 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 138.55<br>-38.51       | 19.25                |
| 26 29 13        | 13-0295        | EA  | Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 110.63<br>-38.51       | 19.25                |
| 26 29 13        | 13-0296        | EA  | Terminal Block, Contactor/Starter Accessory (Square D 9999T7) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 61.84<br>-23.10        | 11.56                |
| 26 29 13        | 13-0297        | EA  | Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1) .....<br><i>For Factory Installed Accessory, Deduct</i>   | 39.74<br>-23.10        | 11.56                |
| 26 29 13        | 13-0298        | EA  | 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 187.84<br>-30.80       | 15.41                |
| 26 29 13        | 13-0299        | EA  | 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 321.18<br>-38.51       | 19.25                |
| <b>26 29 13</b> | <b>13-0300</b> |     | <b>Definite Purpose Starters</b> <small>(26 29 13 13)</small>   |                        |                      |
| <b>26 29 13</b> | <b>13-0301</b> |     | <b>Open Enclosure, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>   |                        |                      |
| 26 29 13        | 13-0302        | EA  | Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13) .....<br><i>For Factory Installed Accessory, Deduct</i>    | 672.61<br>-369.65      | 184.82               |
| 26 29 13        | 13-0303        | EA  | Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22) .....<br><i>For Factory Installed Accessory, Deduct</i>        | 671.59<br>-369.65      | 184.82               |
| 26 29 13        | 13-0304        | EA  | Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23) .....<br><i>For Factory Installed Accessory, Deduct</i> | 726.87<br>-400.45      | 200.23               |
| 26 29 13        | 13-0305        | EA  | Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32) .....<br><i>For Factory Installed Accessory, Deduct</i>        | 709.33<br>-369.65      | 184.82               |
| 26 29 13        | 13-0306        | EA  | Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 770.74<br>-400.45      | 200.23               |
| 26 29 13        | 13-0307        | EA  | Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42) .....<br><i>For Factory Installed Accessory, Deduct</i>    | 741.98<br>-369.65      | 184.82               |
| 26 29 13        | 13-0308        | EA  | Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43) .....<br><i>For Factory Installed Accessory, Deduct</i>  | 869.07<br>-462.06      | 231.03               |

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 26 29 13 13-0309        | EA  | Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52) .....  | 953.73                    | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -462.06                   |                         |
| 26 29 13 13-0310        | EA  | Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53) .....   | 1,189.88                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -539.07                   |                         |
| <b>26 29 13 13-0311</b> |     | <b>NEMA 1, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>  |                           |                         |
| 26 29 13 13-0312        | EA  | NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12) .....   | 677.51                    | 169.42                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -338.85                   |                         |
| 26 29 13 13-0313        | EA  | NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG2) .....  | 732.80                    | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -369.65                   |                         |
| 26 29 13 13-0314        | EA  | NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22) .....   | 730.76                    | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -369.65                   |                         |
| 26 29 13 13-0315        | EA  | NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23) .....  | 789.10                    | 200.23                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -400.45                   |                         |
| 26 29 13 13-0316        | EA  | NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32) .....   | 769.52                    | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -369.65                   |                         |
| 26 29 13 13-0317        | EA  | NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33) .....   | 831.94                    | 200.23                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -400.45                   |                         |
| 26 29 13 13-0318        | EA  | NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42) .....   | 804.20                    | 184.82                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -369.65                   |                         |
| 26 29 13 13-0319        | EA  | NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43) .....   | 930.27                    | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -462.06                   |                         |
| 26 29 13 13-0320        | EA  | NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) .....  | 1,011.88                  | 231.03                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -462.06                   |                         |
| 26 29 13 13-0321        | EA  | NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) .....   | 1,249.04                  | 269.54                  |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -539.07                   |                         |
| <b>26 29 13 13-0322</b> |     | <b>Definite Purpose Starter Accessory</b> <small>(26 29 13 13-0300)</small>  |                           |                         |
| 26 29 13 13-0323        | EA  | Start-Stop Push Button Kit, Definite Purpose Starter Accessory .....   | 194.38                    | 19.25                   |
|                         |     | Note: Or Hand-Off-Auto Selector Switch Kit .....   |                           |                         |
|                         |     | <i>For Factory Installed Accessory, Deduct</i> .....   | -38.51                    |                         |
| <b>26 29 13 13-0324</b> |     | <b>Panel Mounted Miniature Contactor</b> <small>(26 29 13 13)</small>  |                           |                         |
| <b>26 29 13 13-0325</b> |     | <b>Non-Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>  |                           |                         |
| 26 29 13 13-0326        | EA  | 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....   | 212.16                    | 77.01                   |
| 26 29 13 13-0327        | EA  | 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....                           | 245.93                    | 84.71                   |
| 26 29 13 13-0328        | EA  | 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....                                   | 245.93                    | 84.71                   |
| 26 29 13 13-0329        | EA  | 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....                             | 272.55                    | 92.41                   |
| 26 29 13 13-0330        | EA  | 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....   | 230.53                    | 77.01                   |
| 26 29 13 13-0331        | EA  | 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....                   | 240.73                    | 77.01                   |
| 26 29 13 13-0332        | EA  | 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....                                   | 263.27                    | 84.71                   |
| 26 29 13 13-0333        | EA  | 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....         | 273.47                    | 84.71                   |
| 26 29 13 13-0334        | EA  | 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....                           | 269.39                    | 84.71                   |
| 26 29 13 13-0335        | EA  | 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) ..... | 273.47                    | 84.71                   |
| 26 29 13 13-0336        | EA  | 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....                     | 292.95                    | 92.41                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 29 13 13-0337 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....                       | 279.59                    | 84.71                   |
| 26 29 13 13-0338 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....                         | 303.15                    | 92.41                   |
| 26 29 13 13-0339 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....               | 281.63                    | 84.71                   |
| 26 29 13 13-0340 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....       | 281.63                    | 84.71                   |
| 26 29 13 13-0341 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....         | 313.35                    | 92.41                   |
| 26 29 13 13-0342 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)..... | 313.35                    | 92.41                   |
| <b>26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>  |                           |                         |
| 26 29 13 13-0344 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....   | 286.63                    | 77.01                   |
| 26 29 13 13-0345 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....   | 307.03                    | 77.01                   |
| 26 29 13 13-0346 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....   | 339.77                    | 84.71                   |
| 26 29 13 13-0347 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....   | 339.77                    | 84.71                   |
| 26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....                                   | 360.17                    | 84.71                   |
| 26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....   | 379.65                    | 92.41                   |
| 26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....   | 379.65                    | 92.41                   |
| 26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....   | 324.37                    | 77.01                   |
| 26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....   | 344.77                    | 77.01                   |
| 26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....   | 375.47                    | 84.71                   |
| 26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....                                   | 395.88                    | 84.71                   |
| 26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....   | 421.48                    | 92.41                   |
| 26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....                             | 441.88                    | 92.41                   |
| 26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....                   | 364.25                    | 84.71                   |
| 26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....                   | 412.20                    | 84.71                   |
| 26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....             | 464.32                    | 92.41                   |
| <b>26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories</b> <small>(26 29 13 13-0324)</small>   |                           |                         |
| 26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....   | 93.03                     | 38.51                   |
| 26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....   | 100.90                    | 38.51                   |
| 26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....   | 115.16                    | 38.51                   |
| 26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....  | 143.53                    | 38.51                   |
| <b>26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole</b> <small>(26 29 13 13)</small>   |                           |                         |
| <b>26 29 13 13-0366 NEMA 1 Enclosure</b> <small>(26 29 13 13-0365)</small>  |                           |                         |
| 26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing<br><i>For NEMA 4, Add</i>  | 7,664.37<br>769.54        | 738.35                  |



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....<br><i>For NEMA 4, Add</i>         | 13,217.02<br>1,405.62     | 984.46                  |
| 26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....<br><i>For NEMA 4, Add</i>         | 22,854.37<br>2,565.47     | 1,169.04                |
| 26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....<br><i>For NEMA 4, Add</i>         | 55,017.65<br>6,521.14     | 1,430.54                |
| 26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....<br><i>For NEMA 4, Add</i>         | 87,554.32<br>10,486.49    | 1,830.47                |
| <b>26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)</b>   |                           |                         |
| 26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....                                   | 7,613.09                  | 754.04                  |
| 26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....                                  | 13,123.35                 | 986.00                  |
| 26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....                                  | 22,683.42                 | 1,165.35                |
| 26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....                                  | 54,583.11                 | 1,424.23                |
| 26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....                                  | 86,855.55                 | 1,831.24                |
| <b>26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)</b>   |                           |                         |
| 26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase,<br>Pilot Device.....           | 181.31                    |                         |
| 26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase,<br>Pilot Device.....              | 199.96                    |                         |
| 26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase,<br>Pilot Device.....             | 340.37                    |                         |
| 26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....                         | 184.93                    |                         |
| 26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase,<br>Pilot Device.....            | 265.91                    |                         |
| 26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot<br>Device.....              | 132.96                    |                         |
| 26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot<br>Device.....                  | 433.96                    |                         |
| <b>26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)</b>  |                           |                         |
| 26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase,<br>Meter.....                      | 1,744.40                  |                         |
| 26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....                                  | 1,684.85                  |                         |
| 26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....                                  | 595.65                    |                         |
| 26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase,<br>Meter.....                      | 493.55                    |                         |
| <b>26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)</b>   |                           |                         |
| 26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....                              | 2,305.48                  |                         |
| 26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....                              | 4,216.43                  |                         |
| 26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....                            | 8,968.76                  |                         |
| <b>26 29 13 13-0395 Factory Modifications Addition (26 29 13 13-0365)</b>  |                           |                         |
| Note: For reversing service auto transformer type.   |                           |                         |
| 26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3<br>Phase.....                      | 387.19                    |                         |
| 26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3<br>Phase.....                      | 387.19                    |                         |
| 26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3<br>Phase.....                      | 387.19                    |                         |
| 26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3<br>Phase.....                   | 387.19                    |                         |
| <b>26 29 13 13-0400 Combination Starters Non-Reversing (26 29 13 13)</b>   |                           |                         |
| <b>26 29 13 13-0401 240-600 Volt, 3-Pole (26 29 13 13-0400)</b>  |                           |                         |
| <b>26 29 13 13-0402 NEMA 1 With Disconnect Switch (26 29 13 13-0401)</b>   |                           |                         |
| 26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....<br><i>For Electronic Overloads, Add</i> | 1,943.36<br>233.93        | 353.79                  |
| 26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....<br><i>For Electronic Overloads, Add</i> | 2,413.52<br>246.79        | 553.76                  |
| 26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....<br><i>For Electronic Overloads, Add</i> | 3,338.41<br>390.75        | 646.05                  |
| 26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....<br><i>For Electronic Overloads, Add</i> | 5,025.40<br>650.39        | 799.88                  |
| 26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....<br><i>For Electronic Overloads, Add</i> | 9,166.34<br>1,254.50      | 1,276.72                |
| 26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....<br><i>For Electronic Overloads, Add</i> | 18,029.00<br>2,816.63     | 1,599.74                |
| <b>26 29 13 13-0409 NEMA 1 With Circuit Breaker (26 29 13 13-0401)</b>   |                           |                         |











**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

|                         | MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|--|---------------------------|-------------------------|
| 26 31 00 00-0139        | EA Interface Card Easy (Fronius 4,240,013,Z).....  | 329.14                    | 38.46                   |
| 26 31 00 00-0140        | EA Sensor Box (Fronius 4,240,104).....   | 1,358.82                  | 38.46                   |
| 26 31 00 00-0141        | EA Ambient Temperature Sensor (Fronius 43,0001,1188).....  | 162.37                    | 38.46                   |
| 26 31 00 00-0142        | EA Irradiance Sensor (Fronius 43,0001,1188).....   | 480.50                    | 38.46                   |
| 26 31 00 00-0143        | EA Module Temperature Sensor (Fronius 43,0001,1190).....   | 533.65                    | 38.46                   |
| 26 31 00 00-0144        | EA Wind Speed Sensor (Fronius 42,0411,0027).....   | 301.71                    | 76.91                   |
| <b>26 31 00 00-0145</b> | <b>Photovoltaic System Accessories <small>(26 31)</small></b>  |                           |                         |
| 26 31 00 00-0146        | EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....  | 1,019.34                  | 76.91                   |
| 26 31 00 00-0147        | EA Line Communication Filter (Enphase LCF).....  | 2,217.15                  | 153.82                  |
| 26 31 00 00-0148        | EA 15 Meter RS 485 Communication Cable (SMA).....  | 169.95                    | 11.54                   |
| 26 31 00 00-0149        | EA 15 Meter RS 232 Communication Cable (SMA).....  | 253.89                    | 11.54                   |
| 26 31 00 00-0150        | EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....  | 40.18                     | 3.81                    |
| 26 31 00 00-0151        | EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....  | 43.00                     | 3.81                    |
| 26 31 00 00-0152        | EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....  | 44.59                     | 3.81                    |
| 26 31 00 00-0153        | EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....  | 49.00                     | 3.81                    |
| 26 31 00 00-0154        | EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....   | 55.61                     | 3.81                    |
| 26 31 00 00-0155        | EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....   | 89.17                     | 7.61                    |
| 26 31 00 00-0156        | EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....   | 109.68                    | 7.61                    |
| 26 31 00 00-0157        | EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....   | 144.77                    | 11.42                   |
| 26 31 00 00-0158        | EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....   | 50.10                     | 3.81                    |
| 26 31 00 00-0159        | EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....  | 68.82                     | 3.81                    |
| 26 31 00 00-0160        | EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....  | 102.39                    | 7.61                    |
| 26 31 00 00-0161        | EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....  | 135.44                    | 7.61                    |
| 26 31 00 00-0162        | EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....  | 221.31                    | 15.23                   |
| 26 31 00 00-0163        | EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....   | 230.64                    | 15.23                   |
| 26 31 00 00-0164        | EA Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....<br>Note: Tamper proof enclosure.   | 4,111.65                  | 415.31                  |
| <b>26 31 00 00-0165</b> | <b>Photovoltaic Mounting Systems <small>(26 31)</small></b>  |                           |                         |
| 26 31 00 00-0166        | LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....   | 14.93                     | 3.85                    |
| 26 31 00 00-0167        | EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....   | 45.77                     | 19.22                   |
| 26 31 00 00-0168        | EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....   | 56.15                     | 19.22                   |
| 26 31 00 00-0169        | EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....<br>Note: Supports mounting rail above tile or metal roof.  | 28.77                     | 7.69                    |
| 26 31 00 00-0170        | EA Mounting Rail Grounding Clip (UNIRAC 980006).....<br>Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips. | 14.44                     | 5.77                    |
| 26 31 00 00-0171        | EA Mounting Rail Grounding Lugs (UNIRAC 980012).....<br>Note: Two grounding lugs for each rail splice and one additional lug for each rail.  | 29.25                     | 7.69                    |
| 26 31 00 00-0172        | EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....<br>Note: Four for each row of modules you plan to mount.  | 8.02                      | 2.56                    |
| 26 31 00 00-0173        | EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....<br>Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.   | 8.36                      | 2.56                    |
| 26 31 00 00-0174        | EA Photovoltaic Module Mount L-Feet (UNIRAC 310065).....   | 21.20                     | 7.69                    |
| 26 31 00 00-0175        | EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....<br>Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.      | 123.59                    | 38.46                   |
| 26 31 00 00-0176        | EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....<br>Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.      | 135.34                    | 38.46                   |
| 26 31 00 00-0177        | EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....<br>Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.      | 144.80                    | 38.46                   |
| 26 31 00 00-0178        | EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....<br>Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.                    | 181.95                    | 57.68                   |
| 26 31 00 00-0179        | EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....<br>Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.                    | 217.20                    | 57.68                   |
| 26 31 00 00-0180        | EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....<br>Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.                    | 249.19                    | 57.68                   |
| 26 31 00 00-0181        | EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....<br>Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.                 | 279.16                    | 76.91                   |
| 26 31 00 00-0182        | EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....<br>Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.                 | 363.38                    | 76.91                   |
| 26 31 00 00-0183        | EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....<br>Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.                | 513.40                    | 115.36                  |
| 26 31 00 00-0184        | EA Ballasted Photovoltaic Module Frame (UNIRAC 310351).....<br>Note: Excludes ballast.   | 251.15                    |                         |
| 26 31 00 00-0185        | EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....<br>Note: Excludes ballast.   | 463.85                    |                         |
| 26 31 00 00-0186        | EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....  | 100.11                    | 38.46                   |
| 26 31 00 00-0187        | EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....  | 101.19                    | 38.46                   |
| 26 31 00 00-0188        | EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....  | 102.18                    | 38.46                   |
| 26 31 00 00-0189        | EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....  | 104.65                    | 38.46                   |
| 26 31 00 00-0190        | EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....  | 93.56                     | 38.46                   |





**26 Electrical**

**26 30 Facility Electrical Power Generating and Storing Equipment**

**26 32 Packaged Generator Assemblies**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB)..... | 58,738.99                 | 3,710.31                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 7,500.69                  |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 23,722.22                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 16,154.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 19,421.19                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 25,894.92                 |                         |
| 26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC)..... | 64,915.93                 | 4,089.41                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 7,500.69                  |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 23,722.22                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 16,154.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 19,421.19                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 25,894.92                 |                         |
| 26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB)..... | 68,146.23                 | 4,565.30                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 7,500.69                  |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 23,722.22                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 16,154.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 19,421.19                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 25,894.92                 |                         |
| 26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC)..... | 72,322.39                 | 5,000.85                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 7,500.69                  |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 23,722.22                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 16,154.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 19,421.19                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 25,894.92                 |                         |
| 26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD)..... | 77,727.97                 | 5,283.15                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 7,500.69                  |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 23,722.22                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 16,154.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 19,421.19                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 25,894.92                 |                         |
| 26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA)..... | 80,916.79                 | 5,500.93                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |
| 26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA)..... | 87,853.59                 | 5,799.37                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |
| 26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB)..... | 89,868.82                 | 6,057.48                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |
| 26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG).....  | 100,918.05                | 6,775.35                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |
| 26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH).....  | 108,493.25                | 7,420.62                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |
| 26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ).....  | 121,967.56                | 7,993.30                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |
| 26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK).....  | 128,143.80                | 8,517.58                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                   | 48,643.80                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                   | 53,862.81                 |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                   | 71,817.07                 |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                | 58,997.62                 |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                | 65,840.38                 |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                | 87,787.18                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA).....    | 184,042.06                | 9,380.63                |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                     | 99,370.36                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                     | 119,665.13                |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                     | 159,553.51                |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                  | 116,878.90                |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                  | 139,408.07                |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                  | 185,877.43                |                         |
| 26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB).....    | 210,464.94                | 10,316.28               |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                     | 99,370.36                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                     | 119,665.13                |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                     | 159,553.51                |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                  | 116,878.90                |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                  | 139,408.07                |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                  | 185,877.43                |                         |
| 26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC).....    | 219,631.50                | 10,542.11               |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                     | 99,370.36                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                     | 119,665.13                |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                     | 159,553.51                |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                  | 116,878.90                |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                  | 139,408.07                |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                  | 185,877.43                |                         |
| 26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC).....   | 266,996.89                | 11,364.84               |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                     | 99,370.36                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                     | 119,665.13                |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                     | 159,553.51                |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                  | 116,878.90                |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                  | 139,408.07                |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                  | 185,877.43                |                         |
| 26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD)..... | 298,401.38                | 12,098.83               |
| For Weather Resistant Steel Diesel Generator Enclosure, Add                     | 99,370.36                 |                         |
| For Quietsite Level 1 Steel Diesel Generator Enclosure, Add                     | 119,665.13                |                         |
| For Quietsite Level 2 Steel Diesel Generator Enclosure, Add                     | 159,553.51                |                         |
| For Weather Resistant Aluminum Diesel Generator Enclosure, Add                  | 116,878.90                |                         |
| For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add                  | 139,408.07                |                         |
| For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add                  | 185,877.43                |                         |

**26 32 13 19 Natural Gas-Engine-Driven Generator Sets** (26 32 13)

**26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins)** (26 32 13 19)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0748 for loadbank rental, 01 22 23 00-0769 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.

|   |           |          |
|---|-----------|----------|
| 26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)..... | 14,097.05 | 1,080.83 |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                 | 4,497.66  |          |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 11,636.80 |          |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 15,515.73 |          |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 4,871.29  |          |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 8,081.94  |          |
| 26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)..... | 15,917.57 | 1,290.54 |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                 | 4,497.66  |          |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 11,636.80 |          |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 15,515.73 |          |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 4,871.29  |          |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 8,081.94  |          |
| 26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)..... | 18,285.58 | 1,435.73 |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                 | 4,497.66  |          |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 11,636.80 |          |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 15,515.73 |          |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 4,871.29  |          |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 8,081.94  |          |
| 26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)..... | 20,671.22 | 1,588.98 |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                 | 4,497.66  |          |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 11,636.80 |          |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 15,515.73 |          |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                         | 13,778.95 |          |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 23,127.14 |          |
| 26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)..... | 23,130.37 | 1,742.24 |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                 | 4,497.66  |          |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 11,636.80 |          |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 15,515.73 |          |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                         | 13,778.95 |          |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 23,127.14 |          |
| 26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC)..... | 25,032.22 | 1,879.35 |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                 | 4,497.66  |          |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 11,636.80 |          |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                 | 15,515.73 |          |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                         | 13,778.95 |          |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add              | 23,127.14 |          |

**26 Electrical**

**26 30 Facility Electrical Power Generating and Storing Equipment**

**26 32 Packaged Generator Assemblies**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....  | 27,498.68                 | 2,298.77                |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                  | 4,497.66                  |                         |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 11,636.80                 |                         |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 15,515.73                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 13,778.95                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 23,127.14                 |                         |
| 26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....  | 29,544.26                 | 2,573.02                |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                  | 4,497.66                  |                         |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 11,636.80                 |                         |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 15,515.73                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 13,778.95                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 23,127.14                 |                         |
| 26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....  | 38,287.72                 | 2,750.47                |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                  | 8,197.25                  |                         |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 23,722.22                 |                         |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 16,154.62                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 23,127.14                 |                         |
| 26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH)..... | 45,929.84                 | 3,097.30                |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                  | 8,197.25                  |                         |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 23,722.22                 |                         |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 16,154.62                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 23,127.14                 |                         |
| 26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA)..... | 52,740.52                 | 3,710.31                |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                  | 8,197.25                  |                         |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 23,722.22                 |                         |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 16,154.62                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 23,127.14                 |                         |
| 26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB)..... | 62,404.80                 | 4,089.41                |
| For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add                  | 8,197.25                  |                         |
| For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 17,791.66                 |                         |
| For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add                  | 23,722.22                 |                         |
| For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 16,154.62                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add               | 23,127.14                 |                         |
| 26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....            | 99,424.61                 | 10,877.50               |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 43,744.82                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 48,424.11                 |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 64,565.48                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 47,829.61                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 71,773.24                 |                         |
| 26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB).....            | 112,645.55                | 4,912.12                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 43,744.82                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 48,424.11                 |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 64,565.48                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 47,829.61                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 71,773.24                 |                         |
| 26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC).....            | 121,228.66                | 5,500.93                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 43,744.82                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 48,424.11                 |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 64,565.48                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 47,829.61                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 71,773.24                 |                         |
| 26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA).....            | 156,010.32                | 6,057.48                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 43,744.82                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 48,424.11                 |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 64,565.48                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 47,829.61                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 71,773.24                 |                         |
| 26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB).....            | 167,589.16                | 6,775.35                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 43,744.82                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 48,424.11                 |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 64,565.48                 |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 47,829.61                 |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 71,773.24                 |                         |
| 26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA).....            | 234,346.11                | 7,993.30                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 95,518.52                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 101,487.71                |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 135,316.95                |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 108,492.50                |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 153,337.53                |                         |
| 26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB).....            | 298,829.11                | 8,517.58                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 95,518.52                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 101,487.71                |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 135,316.95                |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 108,492.50                |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 153,337.53                |                         |
| 26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC).....            | 333,961.91                | 8,977.34                |
| For Weather Resistant Steel Natural Gas Generator Enclosure, Add                             | 95,518.52                 |                         |
| For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add                             | 101,487.71                |                         |
| For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add                             | 135,316.95                |                         |
| For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add                          | 108,492.50                |                         |
| For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add                          | 153,337.53                |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA) .....<br><i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i><br><i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i> | 379,785.43<br>95,518.52<br>101,487.71<br>135,316.95<br>108,492.50<br>153,337.53 | 9,380.63                |
| 26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB) .....<br><i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i><br><i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i> | 397,028.11<br>95,518.52<br>101,487.71<br>135,316.95<br>108,492.50<br>153,337.53 | 9,735.53                |
| 26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC) .....<br><i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i><br><i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i><br><i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i> | 419,964.93<br>95,518.52<br>101,487.71<br>135,316.95<br>108,492.50<br>153,337.53 | 10,405.00               |
| <b>26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets</b> <small>(26 32 13 19)</small>   |   |                         |
| 26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set .....<br>Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.  | 4,863.69  | 707.48                  |
| 26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set .....<br>Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.   | 6,072.47  | 786.09                  |
| 26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set .....<br>Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.   | 6,979.74  | 864.70                  |
| <b>26 32 29 Rotary Converters</b> <small>(26 32)</small>  |   |                         |
| <b>26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output</b> <small>(26 32 29)</small>  |   |                         |
| 26 32 29 00-0002 EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 9,891.07  | 307.65                  |
| 26 32 29 00-0003 EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 12,024.74   | 307.65                  |
| 26 32 29 00-0004 EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 15,894.83   | 307.65                  |
| 26 32 29 00-0005 EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....  | 16,019.02   | 307.65                  |
| 26 32 29 00-0006 EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 17,796.94   | 384.55                  |
| 26 32 29 00-0007 EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 19,262.97   | 384.55                  |
| 26 32 29 00-0008 EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 20,164.49   | 384.55                  |
| 26 32 29 00-0009 EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 24,570.39   | 507.62                  |
| 26 32 29 00-0010 EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 27,288.27   | 507.62                  |
| <b>26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output</b> <small>(26 32 29)</small>  |   |                         |
| 26 32 29 00-0012 EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 11,435.74   | 307.65                  |
| 26 32 29 00-0013 EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 13,616.21   | 307.65                  |
| 26 32 29 00-0014 EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 15,558.75   | 307.65                  |
| 26 32 29 00-0015 EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....  | 15,987.51   | 307.65                  |
| 26 32 29 00-0016 EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....  | 18,121.32   | 384.55                  |
| 26 32 29 00-0017 EA 20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....  | 19,915.94   | 384.55                  |
| 26 32 29 00-0018 EA 25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 20,568.91   | 384.55                  |
| 26 32 29 00-0019 EA 40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 24,473.50   | 507.62                  |
| 26 32 29 00-0020 EA 50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....   | 25,952.16   | 507.62                  |
| <b>26 32 29 00-0021 460 Volt 3 Phase AC Motor Drive 250 Volt DC</b> <small>(26 32 29)</small>   |   |                         |
| 26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....   | 30,010.24   | 5,646.12                |
| 26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....   | 33,406.92   | 5,646.12                |
| 26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....   | 38,060.39   | 8,065.89                |
| 26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....   | 44,257.80   | 8,065.89                |
| 26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....   | 50,106.58   | 8,065.89                |
| 26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....  | 59,021.75   | 12,098.83               |
| 26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....  | 71,762.22   | 12,098.83               |
| <b>26 32 29 00-0029 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC</b> <small>(26 32 29)</small>  |   |                         |
| 26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 103,533.38  | 16,131.78               |
| 26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 112,870.16  | 16,131.78               |
| 26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 135,713.60  | 20,971.32               |
| 26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 154,373.13  | 25,488.21               |
| 26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 182,607.77  | 25,488.21               |
| 26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 258,651.54  | 38,071.00               |
| 26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 268,119.93  | 38,071.00               |
| 26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....   | 308,380.87  | 44,362.40               |

**26 33 Battery Equipment** (26 30)

**26 33 13 Batteries** (26 33)

**26 33 13 00-0001 Standby Batteries** (26 33 13)

|  |          |       |
|--|----------|-------|
| 26 33 13 00-0002 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery ..... | 1,211.87 | 38.51 |
|--|----------|-------|

**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

| MINOR<br>CSI  | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|-----|---|---------------------------|-------------------------|
| 26 33 13 00-0003  | EA  | 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket.....   | 1,308.04                  | 38.51                   |
| 26 33 13 00-0004  | EA  | 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery.....   | 384.14                    | 38.51                   |
| 26 33 13 00-0005  | EA  | 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery.....   | 350.36                    | 38.51                   |
| 26 33 13 00-0006  | EA  | 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery.....  | 591.22                    | 38.51                   |
| 26 33 13 00-0007  | EA  | 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery.....  | 684.55                    | 38.51                   |
| <b>26 33 43 Battery Chargers (26 33)</b>                    |     |   |                           |                         |
| 26 33 43 00-0001  |     | <b>Solid State Chargers, Single Phase (26 33 43)</b><br>Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.  |                           |                         |
| 26 33 43 00-0002  | EA  | Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....   | 3,715.47                  | 878.45                  |
| 26 33 43 00-0003  | EA  | Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....   | 4,311.91                  | 878.45                  |
| 26 33 43 00-0004  | EA  | Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....  | 4,742.37                  | 878.45                  |
| 26 33 43 00-0005  | EA  | Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....  | 5,030.38                  | 1,040.08                |
| <b>26 33 53 Static Uninterruptible Power Supply (26 33)</b> |     |   |                           |                         |
| 26 33 53 00-0001  |     | <b>Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)</b>  |                           |                         |
| 26 33 53 00-0002  |     | <b>Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)</b>  |                           |                         |
| 26 33 53 00-0003  |     | <b>120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b><br>Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.         |                           |                         |
| 26 33 53 00-0004  | EA  | 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....<br>Note: Includes 12 minutes of battery backup at full load.  | 1,242.08                  | 152.29                  |
| 26 33 53 00-0005  | EA  | 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....<br>Note: Includes 6 minutes of battery backup at full load.   | 1,480.78                  | 177.66                  |
| 26 33 53 00-0006  | EA  | 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....<br>Note: Includes 5 minutes of battery backup at full load.  | 1,814.26                  | 203.04                  |
| 26 33 53 00-0007  | EA  | 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....<br>Note: Includes 5 minutes of battery backup at full load.  | 2,202.88                  | 228.43                  |
| 26 33 53 00-0008  | EA  | 2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....<br>Note: Includes 4 minutes of battery backup at full load.  | 2,799.82                  | 253.80                  |
| 26 33 53 00-0009  | EA  | 3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....<br>Note: Includes 4 minutes of battery backup at full load.  | 4,437.97                  | 304.57                  |
| 26 33 53 00-0010  |     | <b>208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b><br>Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.         |                           |                         |
| 26 33 53 00-0011  | EA  | 3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208).....<br>Note: Includes 4 minutes of battery backup at full load.  | 4,360.10                  | 304.57                  |
| 26 33 53 00-0012  |     | <b>120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b><br>Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics. |                           |                         |
| 26 33 53 00-0013  | EA  | 5 kVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208).....<br>Note: Includes 5 minutes of battery backup at full load.  | 6,682.29                  | 406.09                  |
| 26 33 53 00-0014  | EA  | 6 kVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208).....<br>Note: Includes 4 minutes of battery backup at full load.  | 7,316.31                  | 456.85                  |
| 26 33 53 00-0015  | EA  | 8 kVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208).....<br>Note: Includes 7 minutes of battery backup at full load.  | 10,854.63                 | 558.37                  |
| 26 33 53 00-0016  | EA  | 10 kVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208).....<br>Note: Includes 4-1/2 minutes of battery backup at full load.  | 12,455.14                 | 609.13                  |
| 26 33 53 00-0017  |     | <b>230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b><br>Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.         |                           |                         |
| 26 33 53 00-0018  | EA  | 0.7 kVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....<br>Note: Includes 11 minutes of battery backup at full load.  | 1,480.78                  | 177.66                  |



|   |              |           |
|---|--------------|-----------|
| <b>Electrical</b>   | <b>26</b>    | <b>26</b> |
| <b>Facility Electrical Power Generating and Storing Equipment</b> | <b>26 30</b> |           |
| <b>Battery Equipment</b>  | <b>26 33</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230) .....<br>Note: Includes 6 minutes of battery backup at full load.    | 1,814.26                  | 203.04                  |
| 26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....<br>Note: Includes 4 minutes of battery backup at full load. | 2,225.88                  | 228.43                  |
| 26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230) .....<br>Note: Includes 4 minutes of battery backup at full load.  | 2,805.37                  | 253.80                  |
| 26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230) .....<br>Note: Includes 4 minutes of battery backup at full load.  | 4,455.25                  | 304.57                  |
| 26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230) .....<br>Note: Includes 9 minutes of battery backup at full load.  | 6,422.24                  | 406.09                  |
| 26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230) .....<br>Note: Includes 6 minutes of battery backup at full load.  | 7,856.97                  | 456.85                  |
| 26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....<br>Note: Includes 3 minutes of battery backup at full load. | 12,083.39                 | 609.13                  |
| <b>26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems</b> <small>(26 33 53 00-0001)</small>  |                           |                         |
| 26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....<br>Note: Rack mount or tower configuration.  | 775.58                    | 46.15                   |
| 26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....<br>Note: Rack mount or tower configuration.   | 1,009.50                  | 46.15                   |
| 26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....<br>Note: Rack mount or tower configuration.   | 983.46                    | 46.15                   |
| 26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....<br>Note: Rack mount or tower configuration.  | 674.81                    | 46.15                   |
| 26 33 53 00-0031 EA Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....   | 1,070.98                  | 152.29                  |
| 26 33 53 00-0032 EA Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....   | 1,224.80                  | 203.04                  |
| <b>26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS)</b> <small>(26 33 53)</small>  |                           |                         |
| <b>26 33 53 00-0034 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery</b> <small>(26 33 53 00-0033)</small>  |                           |                         |
| Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.   |                           |                         |
| 26 33 53 00-0035 EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....  | 41,937.62                 | 609.13                  |
| 26 33 53 00-0036 EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....  | 46,523.34                 | 812.18                  |
| 26 33 53 00-0037 EA 20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....  | 52,077.47                 | 1,015.22                |
| 26 33 53 00-0038 EA 30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....  | 56,566.36                 | 1,218.27                |
| 26 33 53 00-0039 EA 40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....  | 68,027.72                 | 1,421.31                |
| <b>26 33 53 00-0040 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery</b> <small>(26 33 53 00-0033)</small>   |                           |                         |
| Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.  |                           |                         |
| 26 33 53 00-0041 EA 60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....   | 92,528.52                 | 2,422.69                |
| 26 33 53 00-0042 EA 80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....   | 100,995.15                | 2,999.52                |
| 26 33 53 00-0043 EA 100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....  | 111,830.02                | 3,499.44                |
| 26 33 53 00-0044 EA 120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....  | 137,680.68                | 3,960.90                |
| 26 33 53 00-0045 EA 140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....  | 143,189.33                | 4,422.36                |
| 26 33 53 00-0046 EA 160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....  | 148,766.20                | 4,883.83                |
| 26 33 53 00-0047 EA 180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....  | 155,505.14                | 5,345.29                |
| 26 33 53 00-0048 EA 200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....  | 162,244.08                | 5,806.76                |

**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |            |          |
|------------------|----|---|------------|----------|
| 26 33 53 00-0049 |    | <b>480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery</b> <small>(26 33 53 00-0033)</small> |            |          |
|                  |    | Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.   |            |          |
| 26 33 53 00-0050 | EA | 50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....          | 86,297.93  | 1,999.68 |
| 26 33 53 00-0051 | EA | 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....         | 112,411.06 | 3,514.82 |
| 26 33 53 00-0052 | EA | 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....         | 153,111.09 | 4,060.88 |
| 26 33 53 00-0053 | EA | 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....         | 180,026.99 | 4,460.82 |
| 26 33 53 00-0054 | EA | 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....         | 210,235.46 | 4,922.29 |
| 26 33 53 00-0055 |    | <b>Optional Accessories For Three Phase, Uninterruptible Power Supply Systems</b> <small>(26 33 53 00-0033)</small>   |            |          |
| 26 33 53 00-0056 | EA | Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....  | 707.84     | 76.91    |
| 26 33 53 00-0057 | EA | Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....  | 1,118.25   | 76.91    |
| 26 33 53 00-0058 | EA | Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....  | 2,218.44   | 153.82   |
| 26 33 53 00-0059 | EA | Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....  | 7,026.68   | 615.28   |
| 26 33 53 00-0060 | EA | 12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....   | 640.10     | 76.91    |
| 26 33 53 00-0061 | EA | 12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....   | 352.78     | 76.91    |
| 26 33 53 00-0062 | EA | 12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....   | 394.71     | 76.91    |
| 26 33 53 00-0063 | EA | 12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....   | 436.63     | 76.91    |
| 26 33 53 00-0064 | EA | 12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....   | 512.10     | 76.91    |
| 26 33 53 00-0065 | EA | 12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....  | 537.25     | 76.91    |
| 26 33 53 00-0066 | EA | 12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....  | 667.22     | 76.91    |
| 26 33 53 00-0067 | EA | 12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....  | 698.67     | 76.91    |
| 26 33 53 00-0068 |    | <b>Other Uninterruptable Power Supply Equipment</b> <small>(26 33 53)</small>   |            |          |
| 26 33 53 00-0069 | EA | Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....   | 6,250.79   | 140.55   |
| 26 33 53 00-0070 | EA | Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....   | 7,561.16   | 281.10   |
| 26 33 53 00-0071 | EA | 1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....   | 35.39      | 8.44     |
| 26 33 53 00-0072 | EA | 2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....   | 62.25      | 10.54    |
| 26 33 53 00-0073 | EA | 2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....   | 113.71     | 10.54    |
| 26 33 53 00-0074 | EA | 3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....   | 166.03     | 14.06    |
| 26 33 53 00-0075 | EA | 3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....  | 233.96     | 14.06    |
| 26 33 53 00-0076 | EA | Uninterrupted Power Supply Remote Status Panel.....   | 4,295.20   | 140.55   |
| 26 33 53 00-0077 | EA | Uninterrupted Power Supply Remote Contact Board.....  | 1,445.91   | 105.41   |

**26 35 Power Filters and Conditioners** (26 30)**26 35 33 Power Factor Correction Equipment** (26 35)**26 35 33 16 Low-Voltage Power Factor Correction Equipment** (26 35 33)

|                  |    |  |           |  |
|------------------|----|--|-----------|--|
| 26 35 33 16-0001 |    | <b>Power Factor Correction Capacitors</b> <small>(26 35 33 16)</small> |           |  |
| 26 35 33 16-0002 | EA | Power Factor Correction Capacitors, 2.0 KVAC.....                      | 735.45    |  |
| 26 35 33 16-0003 | EA | Power Factor Correction Capacitors, 3.0 KVAC.....                      | 814.53    |  |
| 26 35 33 16-0004 | EA | Power Factor Correction Capacitors, 4.0 KVAC.....                      | 893.61    |  |
| 26 35 33 16-0005 | EA | Power Factor Correction Capacitors, 5.0 KVAC.....                      | 969.53    |  |
| 26 35 33 16-0006 | EA | Power Factor Correction Capacitors, 7.5 KVAC.....                      | 1,190.95  |  |
| 26 35 33 16-0007 | EA | Power Factor Correction Capacitors, 10.0 KVAC.....                     | 1,455.08  |  |
| 26 35 33 16-0008 | EA | Power Factor Correction Capacitors, 15.0 KVAC.....                     | 2,247.47  |  |
| 26 35 33 16-0009 | EA | Power Factor Correction Capacitors, 20.0 KVAC.....                     | 2,729.86  |  |
| 26 35 33 16-0010 | EA | Power Factor Correction Capacitors, 25.0 KVAC.....                     | 3,526.99  |  |
| 26 35 33 16-0011 | EA | Power Factor Correction Capacitors, 30.0 KVAC.....                     | 4,010.96  |  |
| 26 35 33 16-0012 | EA | Power Factor Correction Capacitors, 50.0 KVAC.....                     | 7,038.17  |  |
| 26 35 33 16-0013 | EA | Power Factor Correction Capacitors, 75.0 KVAC.....                     | 10,582.55 |  |
| 26 35 33 16-0014 | EA | Power Factor Correction Capacitors, 100.0 KVAC.....                    | 14,111.13 |  |
| 26 35 33 16-0015 | EA | Power Factor Correction Capacitors, Fuse Kit.....                      | 654.79    |  |

**26 35 43 Static-Frequency Converters** (26 35)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 26 35 43 00-0001 |    | <b>Rotary Phase Converter With NEMA 1 Indoor Enclosure</b> <small>(26 35 43)</small> |          |        |
| 26 35 43 00-0002 | EA | 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure.....                    | 773.27   | 153.82 |
| 26 35 43 00-0003 | EA | 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....                        | 1,324.95 | 184.58 |
| 26 35 43 00-0004 | EA | 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....                        | 1,522.12 | 246.12 |
| 26 35 43 00-0005 | EA | 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....                        | 2,082.97 | 307.65 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....   | 2,859.57                  | 399.94                  |
| 26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 3,685.50                  | 492.23                  |
| 26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 4,610.10                  | 584.52                  |
| 26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 5,602.59                  | 661.43                  |
| 26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 6,520.81                  | 799.88                  |
| 26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 7,460.79                  | 899.86                  |
| 26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 8,400.77                  | 999.84                  |
| 26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 10,419.43                 | 1,207.50                |
| 26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 13,501.71                 | 1,453.62                |
| 26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....  | 17,092.40                 | 1,768.95                |
| 26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....   | 19,567.00                 | 2,068.90                |
| 26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....   | 25,075.94                 | 2,307.32                |
| 26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....   | 38,024.74                 | 2,614.96                |
| 26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....   | 56,400.28                 | 2,922.61                |
| <br><b>26 35 53 Voltage Regulators (26 35)</b>  |                           |                         |
| <b>26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)</b>   |                           |                         |
| Note: For diesel motor generator sets mounted in switchgear cabinet.  |                           |                         |
| 26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....                        | 8,244.29                  | 2,445.77                |
| 26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....                        | 9,517.03                  | 3,076.43                |
| 26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....                       | 10,689.01                 | 3,660.96                |
| <br><b>26 36 Transfer Switches (26 30)</b>  |                           |                         |
| <b>26 36 13 Manual Transfer Switches (26 36)</b>  |                           |                         |
| <b>26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)</b>   |                           |                         |
| 26 36 13 00-0002 EA 30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....  | 1,484.83                  | 269.19                  |
| 26 36 13 00-0003 EA 60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....  | 1,739.24                  | 334.40                  |
| <br><b>26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 13)</b>                      |                           |                         |
| 26 36 13 00-0005 EA 40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....         | 3,819.85                  | 393.04                  |
| For NEMA 3R Enclosure, Add  |                           | 1,193.86                |
| For NEMA 12 Enclosure, Add  |                           | 1,123.62                |
| 26 36 13 00-0006 EA 70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....         | 4,239.75                  | 471.66                  |
| For NEMA 3R Enclosure, Add  |                           | 1,193.86                |
| For NEMA 12 Enclosure, Add  |                           | 1,123.62                |
| 26 36 13 00-0007 EA 125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....       | 4,815.46                  | 550.26                  |
| For NEMA 3R Enclosure, Add  |                           | 1,193.86                |
| For NEMA 12 Enclosure, Add  |                           | 1,123.62                |
| 26 36 13 00-0008 EA 150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....       | 5,967.66                  | 628.87                  |
| For NEMA 3R Enclosure, Add  |                           | 1,404.54                |
| For NEMA 12 Enclosure, Add  |                           | 1,123.62                |
| 26 36 13 00-0009 EA 225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....       | 7,371.72                  | 707.48                  |
| For NEMA 3R Enclosure, Add  |                           | 1,404.54                |
| For NEMA 12 Enclosure, Add  |                           | 1,123.62                |
| 26 36 13 00-0010 EA 260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....       | 8,286.10                  | 786.09                  |
| For NEMA 3R Enclosure, Add  |                           | 1,404.54                |
| For NEMA 12 Enclosure, Add  |                           | 1,123.62                |
| 26 36 13 00-0011 EA 300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....       | 9,214.63                  | 864.70                  |
| For NEMA 3R Enclosure, Add  |                           | 1,657.35                |
| For NEMA 12 Enclosure, Add  |                           | 1,404.54                |
| 26 36 13 00-0012 EA 400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....       | 10,803.74                 | 943.31                  |
| For NEMA 3R Enclosure, Add  |                           | 1,657.35                |
| For NEMA 12 Enclosure, Add  |                           | 1,404.54                |
| 26 36 13 00-0013 EA 600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....       | 14,274.38                 | 1,179.13                |
| For NEMA 3R Enclosure, Add  |                           | 1,657.35                |
| For NEMA 12 Enclosure, Add  |                           | 1,404.54                |
| 26 36 13 00-0014 EA 800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....       | 16,077.49                 | 1,414.96                |
| For NEMA 3R Enclosure, Add  |                           | 2,036.56                |
| For NEMA 12 Enclosure, Add  |                           | 1,966.35                |
| 26 36 13 00-0015 EA 1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....    | 21,341.46                 | 1,935.81                |
| For NEMA 3R Enclosure, Add  |                           | 2,036.56                |
| For NEMA 12 Enclosure, Add  |                           | 1,966.35                |
| <br><b>26 36 23 Automatic Transfer Switches (26 36)</b>   |                           |                         |
| <b>26 36 23 00-0001 Automatic Transfer Switch (26 36 23)</b>  |                           |                         |
| <b>26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)</b>                      |                           |                         |
| Note: Programmable, 120/240 volt single phase, 3 wire.  |                           |                         |
| 26 36 23 00-0003 EA 100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire..... | 3,491.01                  | 550.26                  |
| 26 36 23 00-0004 EA 225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire..... | 4,740.86                  | 707.48                  |
| 26 36 23 00-0005 EA 400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire..... | 7,499.09                  | 943.31                  |
| 26 36 23 00-0006 EA 600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire..... | 12,124.00                 | 1,179.13                |



**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure</b> <small>(26 36 23 00-0001)</small>        |                           |                         |
| 26 36 23 00-0008 EA 40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....            | 5,656.07                  | 393.04                  |
| For NEMA 3R Enclosure, Add   | 1,193.86                  |                         |
| For NEMA 4 Enclosure, Add  | 1,264.08                  |                         |
| For NEMA 12 Enclosure, Add   | 1,264.08                  |                         |
| 26 36 23 00-0009 EA 70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....            | 6,533.08                  | 471.66                  |
| For NEMA 3R Enclosure, Add   | 1,193.86                  |                         |
| For NEMA 4 Enclosure, Add  | 1,264.08                  |                         |
| For NEMA 12 Enclosure, Add   | 1,264.08                  |                         |
| 26 36 23 00-0010 EA 125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....          | 7,187.34                  | 550.26                  |
| For NEMA 3R Enclosure, Add   | 1,193.86                  |                         |
| For NEMA 4 Enclosure, Add  | 1,264.08                  |                         |
| For NEMA 12 Enclosure, Add   | 1,264.08                  |                         |
| 26 36 23 00-0011 EA 150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....          | 8,545.95                  | 628.87                  |
| For NEMA 3R Enclosure, Add   | 1,404.54                  |                         |
| For NEMA 4 Enclosure, Add  | 1,825.89                  |                         |
| For NEMA 12 Enclosure, Add   | 1,264.08                  |                         |
| 26 36 23 00-0012 EA 225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....          | 9,756.49                  | 707.48                  |
| For NEMA 3R Enclosure, Add   | 1,404.54                  |                         |
| For NEMA 4 Enclosure, Add  | 1,825.89                  |                         |
| For NEMA 12 Enclosure, Add   | 1,264.08                  |                         |
| 26 36 23 00-0013 EA 260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....          | 10,767.44                 | 786.09                  |
| For NEMA 3R Enclosure, Add   | 1,404.54                  |                         |
| For NEMA 4 Enclosure, Add  | 1,825.89                  |                         |
| For NEMA 12 Enclosure, Add   | 1,264.08                  |                         |
| 26 36 23 00-0014 EA 300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....          | 11,258.16                 | 864.70                  |
| For NEMA 3R Enclosure, Add   | 1,657.35                  |                         |
| For NEMA 4 Enclosure, Add  | 1,966.35                  |                         |
| For NEMA 12 Enclosure, Add   | 1,404.54                  |                         |
| 26 36 23 00-0015 EA 400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....          | 12,726.23                 | 943.31                  |
| For NEMA 3R Enclosure, Add   | 1,657.35                  |                         |
| For NEMA 4 Enclosure, Add  | 1,966.35                  |                         |
| For NEMA 12 Enclosure, Add   | 1,404.54                  |                         |
| 26 36 23 00-0016 EA 600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....          | 17,421.44                 | 1,179.13                |
| For NEMA 3R Enclosure, Add   | 1,657.35                  |                         |
| For NEMA 4 Enclosure, Add  | 1,966.35                  |                         |
| For NEMA 12 Enclosure, Add   | 1,404.54                  |                         |
| 26 36 23 00-0017 EA 800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....          | 19,552.91                 | 1,414.96                |
| For NEMA 3R Enclosure, Add   | 2,036.56                  |                         |
| For NEMA 4 Enclosure, Add  | 2,247.26                  |                         |
| For NEMA 12 Enclosure, Add   | 1,966.35                  |                         |
| 26 36 23 00-0018 EA 1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....       | 25,404.05                 | 1,935.81                |
| For NEMA 3R Enclosure, Add   | 2,036.56                  |                         |
| For NEMA 4 Enclosure, Add  | 2,247.26                  |                         |
| For NEMA 12 Enclosure, Add   | 1,966.35                  |                         |
| 26 36 23 00-0019 EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....       | 32,927.17                 | 2,097.13                |
| For NEMA 3R Enclosure, Add   | 4,494.50                  |                         |
| For NEMA 4 Enclosure, Add  | 2,528.16                  |                         |
| For NEMA 12 Enclosure, Add   | 2,106.80                  |                         |
| 26 36 23 00-0020 EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....       | 35,124.11                 | 2,419.76                |
| For NEMA 3R Enclosure, Add   | 7,303.55                  |                         |
| For NEMA 4 Enclosure, Add  | 8,988.98                  |                         |
| For NEMA 12 Enclosure, Add   | 7,303.55                  |                         |
| 26 36 23 00-0021 EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....       | 40,157.53                 | 2,742.40                |
| For NEMA 3R Enclosure, Add   | 7,303.55                  |                         |
| For NEMA 4 Enclosure, Add  | 8,988.98                  |                         |
| For NEMA 12 Enclosure, Add   | 7,303.55                  |                         |
| 26 36 23 00-0022 EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....       | 48,508.00                 | 3,387.67                |
| For NEMA 3R Enclosure, Add   | 7,303.55                  |                         |
| 26 36 23 00-0023 EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....       | 84,002.88                 | 4,032.94                |
| For NEMA 3R Enclosure, Add   | 13,539.65                 |                         |
| <b>26 36 23 00-0024 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure</b> <small>(26 36 23 00-0001)</small> |                           |                         |
| 26 36 23 00-0025 EA 150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150)....    | 28,297.12                 | 2,987.14                |
| For NEMA 3R Enclosure, Add   | 2,457.94                  |                         |
| For NEMA 4 Enclosure, Add  | 2,528.16                  |                         |
| For NEMA 12 Enclosure, Add   | 1,334.32                  |                         |
| 26 36 23 00-0026 EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225)....    | 29,541.49                 | 3,144.36                |
| For NEMA 3R Enclosure, Add   | 2,457.94                  |                         |
| For NEMA 4 Enclosure, Add  | 2,528.16                  |                         |
| For NEMA 12 Enclosure, Add   | 1,334.32                  |                         |
| 26 36 23 00-0027 EA 260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260)....    | 30,968.56                 | 3,301.58                |
| For NEMA 3R Enclosure, Add   | 2,457.94                  |                         |
| For NEMA 4 Enclosure, Add  | 2,528.16                  |                         |
| For NEMA 12 Enclosure, Add   | 1,334.32                  |                         |
| 26 36 23 00-0028 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300)....    | 34,536.51                 | 3,380.19                |
| For NEMA 3R Enclosure, Add   | 2,457.94                  |                         |
| For NEMA 4 Enclosure, Add  | 2,528.16                  |                         |
| For NEMA 12 Enclosure, Add   | 1,334.32                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 36 23 00-0029 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....             | 39,820.10                 | 3,458.80                |
| <i>For NEMA 3R Enclosure, Add</i>  | 2,457.94                  |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 2,528.16                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,334.32                  |                         |
| 26 36 23 00-0030 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....             | 47,763.65                 | 3,616.02                |
| <i>For NEMA 3R Enclosure, Add</i>  | 2,457.94                  |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 2,528.16                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,404.54                  |                         |
| 26 36 23 00-0031 EA 800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....             | 52,635.78                 | 3,773.23                |
| <i>For NEMA 3R Enclosure, Add</i>  | 2,528.16                  |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 2,528.16                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,544.99                  |                         |
| 26 36 23 00-0032 EA 1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....          | 66,106.45                 | 4,402.10                |
| <i>For NEMA 3R Enclosure, Add</i>  | 2,528.16                  |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 2,528.16                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,544.99                  |                         |
| 26 36 23 00-0033 EA 1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....          | 86,391.41                 | 4,839.53                |
| <i>For NEMA 3R Enclosure, Add</i>  | 11,236.23                 |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 14,045.28                 |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 11,236.23                 |                         |
| 26 36 23 00-0034 EA 1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....          | 112,652.17                | 5,162.17                |
| <i>For NEMA 3R Enclosure, Add</i>  | 23,876.97                 |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 23,876.97                 |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 22,247.72                 |                         |
| 26 36 23 00-0035 EA 2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....          | 127,901.58                | 5,646.12                |
| <i>For NEMA 3R Enclosure, Add</i>  | 23,876.97                 |                         |
| <i>For NEMA 4 Enclosure, Add</i>   | 23,876.97                 |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 22,247.72                 |                         |
| 26 36 23 00-0036 EA 3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....          | 204,429.38                | 6,452.72                |
| <i>For NEMA 3R Enclosure, Add</i>  | 29,495.07                 |                         |
| 26 36 23 00-0037 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....          | 220,674.46                | 7,259.30                |
| <i>For NEMA 3R Enclosure, Add</i>  | 29,495.07                 |                         |
| <b>26 36 23 00-0038 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure</b> <small>(26 36 23 00-0001)</small> |                           |                         |
| 26 36 23 00-0039 EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....   | 9,199.73                  | 393.04                  |
| <i>For NEMA 3R Enclosure, Add</i>  | 702.27                    |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,264.08                  |                         |
| 26 36 23 00-0040 EA 70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....   | 9,954.43                  | 471.66                  |
| <i>For NEMA 3R Enclosure, Add</i>  | 702.27                    |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,264.08                  |                         |
| 26 36 23 00-0041 EA 125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125)..... | 10,707.84                 | 550.26                  |
| <i>For NEMA 3R Enclosure, Add</i>  | 702.27                    |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,264.08                  |                         |
| 26 36 23 00-0042 EA 150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150)..... | 12,855.78                 | 628.87                  |
| <i>For Four Pole Circuit Breaker, Add</i>  | 3,511.32                  |                         |
| <i>For NEMA 3R Enclosure, Add</i>  | 702.27                    |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,264.08                  |                         |
| 26 36 23 00-0043 EA 225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225)..... | 16,726.64                 | 707.48                  |
| <i>For Four Pole Circuit Breaker, Add</i>  | 3,511.32                  |                         |
| <i>For NEMA 3R Enclosure, Add</i>  | 702.27                    |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,264.08                  |                         |
| 26 36 23 00-0044 EA 250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250)..... | 17,812.28                 | 786.09                  |
| <i>For Four Pole Circuit Breaker, Add</i>  | 3,511.32                  |                         |
| <i>For NEMA 3R Enclosure, Add</i>  | 702.27                    |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,264.08                  |                         |
| 26 36 23 00-0045 EA 300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300)..... | 18,529.64                 | 864.70                  |
| <i>For Four Pole Circuit Breaker, Add</i>  | 4,775.40                  |                         |
| <i>For NEMA 3R Enclosure, Add</i>  | 1,825.89                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,404.54                  |                         |
| 26 36 23 00-0046 EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400)..... | 20,964.74                 | 943.31                  |
| <i>For Four Pole Circuit Breaker, Add</i>  | 4,775.40                  |                         |
| <i>For NEMA 3R Enclosure, Add</i>  | 1,825.89                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,404.54                  |                         |
| 26 36 23 00-0047 EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600)..... | 25,442.34                 | 1,179.13                |
| <i>For Four Pole Circuit Breaker, Add</i>  | 4,775.40                  |                         |
| <i>For NEMA 3R Enclosure, Add</i>  | 1,825.89                  |                         |
| <i>For NEMA 12 Enclosure, Add</i>  | 1,404.54                  |                         |

**26 Electrical**  
**26 30 Facility Electrical Power Generating and Storing Equipment**  
**26 36 Transfer Switches**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 36 23 00-0048 | EA  |     | 800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....    | 26,526.92              | 1,414.96             |
|                  |     |     | <i>For Four Pole Circuit Breaker, Add</i> .....   | 6,811.96               |                      |
|                  |     |     | <i>For NEMA 3R Enclosure, Add</i> .....   | 3,146.15               |                      |
|                  |     |     | <i>For NEMA 12 Enclosure, Add</i> .....   | 1,966.35               |                      |
| 26 36 23 00-0049 | EA  |     | 1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000)..... | 31,430.35              | 1,935.81             |
|                  |     |     | <i>For Four Pole Circuit Breaker, Add</i> .....   | 6,811.96               |                      |
|                  |     |     | <i>For NEMA 3R Enclosure, Add</i> .....   | 3,146.15               |                      |
|                  |     |     | <i>For NEMA 12 Enclosure, Add</i> .....   | 1,966.35               |                      |
| 26 36 23 00-0050 |     |     | <b>Accessories</b> <small>(26 36 23)</small>  |                        |                      |
| 26 36 23 00-0051 | EA  |     | Auxiliary Contacts For Automatic Transfer Switch.....   | 325.86                 |                      |
| 26 36 23 00-0052 | EA  |     | Battery Charger For Automatic Transfer Switch.....  | 2,668.61               |                      |
| 26 36 23 00-0053 | EA  |     | Elevator Relay Signal For Automatic Transfer Switch.....  | 969.13                 |                      |

**26 40 Electrical And Cathodic Protection** (26)

**26 43 Surge Protective Devices** (26 40)

**26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits** (26 43)

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 26 43 13 00-0001 |    |  | <b>25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>         |          |        |
|                  |    |  | Note: Liebert LPL   |          |        |
| 26 43 13 00-0002 | EA |  | 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....           | 249.51   | 38.46  |
| 26 43 13 00-0003 | EA |  | 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....                | 267.02   | 38.46  |
| 26 43 13 00-0004 | EA |  | 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....            | 282.40   | 46.15  |
| 26 43 13 00-0005 | EA |  | 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....               | 229.12   | 30.76  |
| 26 43 13 00-0006 | EA |  | 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....            | 282.40   | 46.15  |
| 26 43 13 00-0007 |    |  | <b>50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>         |          |        |
|                  |    |  | Note: Liebert LPL   |          |        |
| 26 43 13 00-0008 | EA |  | 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....           | 335.80   | 38.46  |
| 26 43 13 00-0009 | EA |  | 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....            | 361.19   | 46.15  |
| 26 43 13 00-0010 | EA |  | 208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....                | 345.81   | 38.46  |
| 26 43 13 00-0011 | EA |  | 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....            | 361.19   | 46.15  |
| 26 43 13 00-0012 |    |  | <b>100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>        |          |        |
|                  |    |  | Note: Liebert LPL   |          |        |
| 26 43 13 00-0013 | EA |  | 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....          | 400.84   | 38.46  |
| 26 43 13 00-0014 | EA |  | 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....           | 426.23   | 46.15  |
| 26 43 13 00-0015 | EA |  | 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....              | 370.45   | 30.76  |
| 26 43 13 00-0016 | EA |  | 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....           | 426.23   | 46.15  |
| 26 43 13 00-0017 |    |  | <b>100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>        |          |        |
|                  |    |  | Note: Liebert LPM   |          |        |
| 26 43 13 00-0018 | EA |  | 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....       | 468.38   | 38.46  |
| 26 43 13 00-0019 | EA |  | 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....        | 530.03   | 46.15  |
| 26 43 13 00-0020 | EA |  | 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....            | 439.24   | 30.76  |
| 26 43 13 00-0021 |    |  | <b>160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>        |          |        |
|                  |    |  | Note: Liebert LPM   |          |        |
| 26 43 13 00-0022 | EA |  | 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....       | 811.44   | 46.15  |
| 26 43 13 00-0023 | EA |  | 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....            | 796.06   | 38.46  |
| 26 43 13 00-0024 | EA |  | 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....        | 811.44   | 46.15  |
| 26 43 13 00-0025 |    |  | <b>250 kA, 500 Joule Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>                    |          |        |
|                  |    |  | Note: Liebert Interceptor Hybrid.   |          |        |
| 26 43 13 00-0026 | EA |  | LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....                  | 7,920.01 | 76.91  |
| 26 43 13 00-0027 | EA |  | Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....    | 9,680.89 | 76.91  |
| 26 43 13 00-0028 |    |  | <b>Class 1310 Transient Voltage Surge Suppression</b> <small>(26 43 13)</small>                           |          |        |
|                  |    |  | Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.                |          |        |
| 26 43 13 00-0029 |    |  | <b>NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor</b> <small>(26 43 13 00-0028)</small>   |          |        |
|                  |    |  | Note: Square D. EMA series.   |          |        |
| 26 43 13 00-0030 | EA |  | 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... | 3,781.41 | 199.97 |
|                  |    |  | <i>For Integral Disconnect, Add</i> .....   | 265.68   |        |
|                  |    |  | <i>For Surge Counter, Add</i> .....   | 203.04   |        |
| 26 43 13 00-0031 | EA |  | 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... | 4,177.62 | 230.73 |
|                  |    |  | <i>For Integral Disconnect, Add</i> .....   | 265.68   |        |
|                  |    |  | <i>For Surge Counter, Add</i> .....   | 203.04   |        |



|   |              |           |
|---|--------------|-----------|
| <b>Electrical</b>                         | <b>26</b>    | <b>26</b> |
| <b>Electrical And Cathodic Protection</b> | <b>26 40</b> |           |
| <b>Surge Protective Devices</b>           | <b>26 43</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST     | DEMOLITION<br>UNIT COST |
|---|-------------------------------|-------------------------|
| 26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 6,057.43<br>265.68<br>203.04  | 269.19                  |
| 26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 8,024.14<br>265.68<br>203.04  | 307.65                  |
| 26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 11,851.74<br>265.68<br>203.04 | 423.01                  |
| 26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 3,939.83<br>265.68<br>203.04  | 199.97                  |
| 26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 4,351.66<br>265.68<br>203.04  | 230.73                  |
| 26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 6,326.30<br>265.68<br>203.04  | 269.19                  |
| 26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 8,373.33<br>265.68<br>203.04  | 307.65                  |
| 26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 12,390.60<br>265.68<br>203.04 | 423.01                  |
| 26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 3,939.83<br>265.68<br>203.04  | 199.97                  |
| 26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 4,351.66<br>265.68<br>203.04  | 230.73                  |
| 26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 6,326.23<br>265.68<br>203.04  | 269.19                  |
| 26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 8,373.33<br>265.68<br>203.04  | 307.65                  |
| 26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 12,390.60<br>265.68<br>203.04 | 423.01                  |
| 26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 4,098.29<br>265.68<br>203.04  | 199.97                  |
| 26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 4,527.93<br>265.68<br>203.04  | 230.73                  |
| 26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 6,597.39<br>265.68<br>203.04  | 269.19                  |
| 26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 8,724.86<br>265.68<br>203.04  | 307.65                  |
| 26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 12,931.64<br>265.68<br>203.04 | 423.01                  |
| 26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 4,282.37<br>265.68<br>203.04  | 199.97                  |
| 26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 4,710.96<br>265.68<br>203.04  | 230.73                  |
| 26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 6,880.76<br>265.68<br>203.04  | 269.19                  |
| 26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 9,093.01<br>265.68<br>203.04  | 307.65                  |
| 26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i>     | 12,732.46<br>265.68<br>203.04 | 423.01                  |
| <b>26 43 13 00-0055 NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor</b> <sup>(26)</sup><br><small>43 13 00-0028)</small><br>Note: Square D EBA series.                           |                               |                         |
| 26 43 13 00-0056 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i> | 2,978.21<br>265.68<br>203.04  | 199.97                  |
| 26 43 13 00-0057 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i> | 3,590.87<br>265.68<br>203.04  | 230.73                  |
| 26 43 13 00-0058 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i> | 5,216.26<br>265.68<br>203.04  | 269.19                  |
| 26 43 13 00-0059 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....<br><i>For Integral Disconnect, Add<br/>For Surge Counter, Add</i> | 3,068.57<br>265.68<br>203.04  | 199.97                  |

**26 Electrical****26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST    | DEMOLITION<br>UNIT COST |
|--|------------------------------|-------------------------|
| 26 43 13 00-0060 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 3,724.74<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0061 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 5,391.41<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0062 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 3,068.57<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0063 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 3,724.74<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 5,391.41<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 3,183.48<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 3,868.66<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 5,615.64<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 3,303.98<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 4,021.50<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i> | 5,851.04<br>265.68<br>203.04 | 269.19                  |
| <b>26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor</b> (26 43 13 00-0028)<br>Note: Square D EMA series. Stainless steel.  |                              |                         |
| 26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 4,835.67<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,231.89<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 7,111.69<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 4,994.10<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,405.92<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 7,380.57<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 4,994.10<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,405.92<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 7,380.50<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,152.56<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,582.20<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 7,651.66<br>265.68<br>203.04 | 269.19                  |
| 26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,336.64<br>265.68<br>203.04 | 199.97                  |
| 26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 5,765.22<br>265.68<br>203.04 | 230.73                  |
| 26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor .....<br><i>For Integral Disconnect, Add</i><br><i>For Surge Counter, Add</i>          | 7,935.03<br>265.68<br>203.04 | 269.19                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor</b> (26 43 13 00-0028)<br>Note: Square D EBA series. Stainless steel. |                           |                         |
| 26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,032.47                  | 199.97                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,645.13                  | 230.73                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 6,270.52                  | 269.19                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,122.83                  | 199.97                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,779.01                  | 230.73                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 6,445.67                  | 269.19                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,122.83                  | 199.97                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,779.01                  | 230.73                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 6,445.67                  | 269.19                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,237.75                  | 199.97                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,922.92                  | 230.73                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 6,669.91                  | 269.19                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 4,358.24                  | 199.97                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 5,075.76                  | 230.73                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| 26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor .....                           | 6,905.30                  | 269.19                  |
| For Integral Disconnect, Add  | 265.68                    |                         |
| For Surge Counter, Add  | 203.04                    |                         |
| <b>26 43 23 Surge Protective Devices for Lightning Protection</b> (26 43)   |                           |                         |
| <b>26 43 23 00-0001 Surge And Lightning Arrestors</b> (26 43 23)  |                           |                         |
| <b>26 43 23 00-0002 Metal Top Intermediate Type IMX</b> (26 43 23 00-0001)<br>Note: For outdoor construction, single phase.                             |                           |                         |
| 26 43 23 00-0003 EA 3 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....  | 1,354.56                  | 334.87                  |
| 26 43 23 00-0004 EA 4.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....  | 1,461.09                  | 334.87                  |
| 26 43 23 00-0005 EA 6 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....  | 1,461.09                  | 334.87                  |
| 26 43 23 00-0006 EA 7.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....  | 1,658.93                  | 334.87                  |
| 26 43 23 00-0007 EA 9 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....  | 1,658.93                  | 334.87                  |
| 26 43 23 00-0008 EA 10 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 1,823.29                  | 334.87                  |
| 26 43 23 00-0009 EA 12 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 1,823.29                  | 334.87                  |
| 26 43 23 00-0010 EA 15 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 2,477.69                  | 418.58                  |
| 26 43 23 00-0011 EA 18 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 2,562.92                  | 418.58                  |
| 26 43 23 00-0012 EA 21 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 2,827.19                  | 502.30                  |
| 26 43 23 00-0013 EA 24 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 3,046.34                  | 502.30                  |
| 26 43 23 00-0014 EA 27 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase .....   | 3,597.24                  | 502.30                  |
| <b>26 43 23 00-0015 Porcelain Top Intermediate Type IMX</b> (26 43 23 00-0001)<br>Note: For cubicle mounting, single phase.                             |                           |                         |
| 26 43 23 00-0016 EA 3 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....   | 1,354.56                  | 334.87                  |
| 26 43 23 00-0017 EA 4.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....   | 1,461.09                  | 334.87                  |
| 26 43 23 00-0018 EA 6 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....   | 1,461.09                  | 334.87                  |
| 26 43 23 00-0019 EA 7.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....   | 1,658.93                  | 334.87                  |
| 26 43 23 00-0020 EA 9 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....   | 1,658.93                  | 334.87                  |
| 26 43 23 00-0021 EA 10 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 1,823.29                  | 334.87                  |
| 26 43 23 00-0022 EA 12 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 1,823.29                  | 334.87                  |
| 26 43 23 00-0023 EA 15 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 2,477.69                  | 418.58                  |
| 26 43 23 00-0024 EA 18 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 2,562.92                  | 418.58                  |
| 26 43 23 00-0025 EA 21 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 2,827.19                  | 502.30                  |
| 26 43 23 00-0026 EA 24 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 3,046.34                  | 502.30                  |
| 26 43 23 00-0027 EA 27 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase .....  | 3,597.24                  | 502.30                  |

|              |   |
|--------------|---|
| <b>26</b>    | <b>Electrical</b>                         |
| <b>26 40</b> | <b>Electrical And Cathodic Protection</b> |
| <b>26 43</b> | <b>Surge Protective Devices</b>           |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 43 23 00-0028</b> IMX Accessories <small>(26 43 23 00-0001)</small>  |                           |                         |
| 26 43 23 00-0029 EA 1 Crossarm Bracket Reversible 3-27 KV IMX.....   | 1,135.42                  | 334.87                  |
| 26 43 23 00-0030 EA Single Unit Horizontal Pole Mounted Bracket (IMX).....   | 1,123.25                  | 334.87                  |
| 26 43 23 00-0031 EA 3 Unit Horizontal Pole Mounted Bracket (IMX).....  | 1,032.06                  | 334.87                  |
| <b>26 43 23 00-0032</b> Lightning Arrestor And Cutouts <small>(26 43 23 00-0001)</small>   |                           |                         |
| 26 43 23 00-0033 EA 3 KV La Distribution Class, Lightning Arrestor.....  | 794.53                    | 334.87                  |
| 26 43 23 00-0034 EA 3 KV La Interior Class, Lightning Arrestor.....  | 1,435.65                  | 334.87                  |
| 26 43 23 00-0035 EA 3 KV La Station Class, Lightning Arrestor.....   | 1,354.56                  | 334.87                  |
| 26 43 23 00-0036 EA 9 KV La Distribution Class, Lightning Arrestor.....  | 861.49                    | 334.87                  |
| 26 43 23 00-0037 EA 9 KV La Interior Class, Lightning Arrestor.....  | 1,613.15                  | 334.87                  |
| 26 43 23 00-0038 EA 9 KV La Station Class, Lightning Arrestor.....   | 1,658.93                  | 334.87                  |
| 26 43 23 00-0039 EA 5 KV Enclosed Fused Cutout.....  | 965.58                    | 334.87                  |
| 26 43 23 00-0040 EA 15 KV Open Fused Cutout.....   | 1,059.35                  | 418.58                  |
| 26 43 23 00-0041 EA 18 KV La Distribution Class, Lightning Arrestor.....   | 826.27                    | 334.87                  |
| 26 43 23 00-0042 EA 18 KV La Interior Class, Lightning Arrestor.....   | 1,708.03                  | 334.87                  |
| <b>26 50 Lighting</b> <small>(26)</small>  |                           |                         |
| Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports. |                           |                         |
| <b>26 51 Interior Lighting</b> <small>(26 50)</small>  |                           |                         |
| <b>26 51 13 Incandescent Interior Lighting</b> <small>(26 51)</small>  |                           |                         |
| <b>26 51 13 00-0001</b> Recessed Fixtures <small>(26 51 13)</small>  |                           |                         |
| Note: Housing and trim priced separately.  |                           |                         |
| <b>26 51 13 00-0002</b> Incandescent, Recessed Fixture Housings <small>(26 51 13 00-0001)</small>  |                           |                         |
| 26 51 13 00-0003 EA 4" Round, Incandescent, T Or ICT Recessed Fixture Housing.....   | 99.41                     | 44.00                   |
| <i>For ICAT Housing, Add</i>   |                           |                         |
|  | 4.29                      |                         |
| 26 51 13 00-0004 EA 5" Round, Incandescent, T Or ICT Recessed Fixture Housing.....   | 99.41                     | 44.00                   |
| <i>For ICAT Housing, Add</i>   |                           |                         |
|  | 4.29                      |                         |
| 26 51 13 00-0005 EA 6" Round, Incandescent, T Or ICT Recessed Fixture Housing.....   | 105.36                    | 46.15                   |
| <i>For ICAT Housing, Add</i>   |                           |                         |
|  | 4.66                      |                         |
| 26 51 13 00-0006 EA 7" Round, Incandescent, T Or ICT Recessed Fixture Housing.....   | 111.48                    | 48.14                   |
| <i>For ICAT Housing, Add</i>   |                           |                         |
|  | 5.05                      |                         |
| 26 51 13 00-0007 EA 8" Round, Incandescent, T Or ICT Recessed Fixture Housing.....   | 117.63                    | 50.15                   |
| <i>For ICAT Housing, Add</i>   |                           |                         |
|  | 5.45                      |                         |
| 26 51 13 00-0008 EA 10" To 12" Square, Incandescent, T Or ICT Recessed Fixture Housing.....  | 120.48                    | 53.22                   |
| <i>For ICAT Housing, Add</i>   |                           |                         |
|  | 5.22                      |                         |
| <b>26 51 13 00-0009</b> Recessed Fixture Trim <small>(26 51 13 00-0001)</small>  |                           |                         |
| 26 51 13 00-0010 EA Circular, Recessed Fixture Trim.....   | 73.47                     | 21.54                   |
| 26 51 13 00-0011 EA Circular Clear Lens, Recessed Fixture Trim.....  | 81.01                     | 21.54                   |
| 26 51 13 00-0012 EA Open/Baffle, Recessed Fixture Trim.....  | 94.07                     | 21.54                   |
| 26 51 13 00-0013 EA Specular Reflector, Recessed Fixture Trim.....   | 101.00                    | 21.54                   |
| 26 51 13 00-0014 EA Eyeball, Recessed Fixture Trim.....  | 81.12                     | 21.54                   |
| 26 51 13 00-0015 EA 10" To 12" Square, Clear Lens, Recessed Fixture Trim.....  | 77.07                     | 21.54                   |
| 26 51 13 00-0016 EA 10" To 12" Square, Drop Dish, Recessed Fixture Trim.....   | 81.71                     | 21.54                   |
| <b>26 51 13 00-0017</b> Track Lighting <small>(26 51 13)</small>   |                           |                         |
| <b>26 51 13 00-0018</b> Track Lighting Tracks <small>(26 51 13 00-0017)</small>  |                           |                         |
| 26 51 13 00-0019 LF 1 Circuit Track Lighting Track.....  | 26.98                     | 10.15                   |
| 26 51 13 00-0020 LF 2 Circuit Track Lighting Track.....  | 34.29                     | 10.15                   |
| 26 51 13 00-0021 LF 3 Circuit Track Lighting Track.....  | 40.58                     | 10.15                   |
| 26 51 13 00-0022 LF 4 Circuit Track Lighting Track.....  | 46.89                     | 12.30                   |
| <b>26 51 13 00-0023</b> Incandescent Track Lighting Fixtures <small>(26 51 13 00-0017)</small>   |                           |                         |
| 26 51 13 00-0024 EA Incandescent Track Lighting Fixture, 120 Volt.....   | 94.41                     | 25.68                   |
| 26 51 13 00-0025 EA Par 20 Track Fixture, White Or Black Finish, 120 Volt.....   | 67.06                     | 25.68                   |
| 26 51 13 00-0026 EA Par 30 Track Fixture, White Or Black Finish, 120 Volt.....   | 89.15                     | 25.68                   |
| 26 51 13 00-0027 EA Par 38 Track Fixture, White Or Black Finish, 120 Volt.....   | 91.34                     | 25.68                   |
| 26 51 13 00-0028 EA PAR 16, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....   | 77.06                     | 25.68                   |
| 26 51 13 00-0029 EA PAR 20, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....   | 67.06                     | 25.68                   |
| 26 51 13 00-0030 EA PAR 30, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....   | 76.01                     | 25.68                   |
| Note: 120V.  |                           |                         |
| 26 51 13 00-0031 EA PAR 38, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....   | 93.53                     | 25.68                   |
| <b>26 51 13 00-0032</b> Track Lighting Accessories <small>(26 51 13 00-0017)</small>   |                           |                         |
| <b>26 51 13 00-0033</b> Pendant Mounting <small>(26 51 13 00-0032)</small>   |                           |                         |
| 26 51 13 00-0034 EA Track Lighting Pendant Mounting, Up to 12".....  | 31.72                     |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Interior Lighting | 26 51     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 51 13 00-0035 EA Track Lighting Pendant Mounting, >12" To 24" .....   | 39.71                     |                         |
| 26 51 13 00-0036 EA Track Lighting Pendant Mounting, >24" To 36" .....   | 48.07                     |                         |
| <b>26 51 13 00-0037 Wet Location, Dust Resistant, Vapor Tight Fixtures (26 51 13)</b>  |                           |                         |
| <b>26 51 13 00-0038 Incandescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0037)</b> |                           |                         |
| 26 51 13 00-0039 EA 100 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....                        | 150.15                    | 61.53                   |
| For Wall Mounted, Add  | 5.10                      |                         |
| 26 51 13 00-0040 EA 200 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....                        | 168.41                    | 61.53                   |
| For Wall Mounted, Add  | 5.10                      |                         |
| <b>26 51 16 Fluorescent Interior Lighting (26 51)</b>  |                           |                         |
| <b>26 51 16 00-0001 Fluorescent Fixtures (26 51 16)</b>  |                           |                         |
| <b>26 51 16 00-0002 Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0001)</b>  |                           |                         |
| <b>26 51 16 00-0003 6" x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)</b>   |                           |                         |
| 26 51 16 00-0004 EA 1 T8 Lamp, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture .....  | 204.92                    | 43.99                   |
| 26 51 16 00-0005 EA 2 T8 Lamps, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....  | 228.91                    | 43.99                   |
| <b>26 51 16 00-0006 6" x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)</b>   |                           |                         |
| 26 51 16 00-0007 EA 1 T8 Lamp, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture .....  | 230.55                    | 45.82                   |
| 26 51 16 00-0008 EA 2 T8 Lamps, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....  | 256.79                    | 45.82                   |
| <b>26 51 16 00-0009 1' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)</b>   |                           |                         |
| 26 51 16 00-0010 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....   | 274.33                    | 51.44                   |
| 26 51 16 00-0011 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....   | 323.24                    | 51.44                   |
| 26 51 16 00-0012 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....   | 377.08                    | 51.44                   |
| <b>26 51 16 00-0013 2' x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)</b>   |                           |                         |
| 26 51 16 00-0014 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture .....   | 226.83                    | 56.22                   |
| 26 51 16 00-0015 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture .....   | 260.24                    | 56.22                   |
| <b>26 51 16 00-0016 2' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)</b>   |                           |                         |
| 26 51 16 00-0017 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....   | 351.03                    | 65.50                   |
| 26 51 16 00-0018 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....   | 376.61                    | 65.50                   |
| 26 51 16 00-0019 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....   | 425.45                    | 65.50                   |
| <b>26 51 16 00-0020 Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0001)</b>  |                           |                         |
| Note: Includes prismatic lens.   |                           |                         |
| <b>26 51 16 00-0021 1' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)</b>   |                           |                         |
| 26 51 16 00-0022 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 272.85                    | 51.02                   |
| 26 51 16 00-0023 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 436.38                    | 51.02                   |
| 26 51 16 00-0024 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 496.08                    | 51.02                   |
| <b>26 51 16 00-0025 2' x 2', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)</b>   |                           |                         |
| 26 51 16 00-0026 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....  | 421.42                    | 56.22                   |
| 26 51 16 00-0027 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....  | 459.07                    | 56.22                   |
| 26 51 16 00-0028 EA 4 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....  | 486.20                    | 56.22                   |
| <b>26 51 16 00-0029 2' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)</b>   |                           |                         |
| 26 51 16 00-0030 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 429.34                    | 65.50                   |
| 26 51 16 00-0031 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture .....   | 469.45                    | 65.50                   |
| 26 51 16 00-0032 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture .....   | 491.48                    | 65.50                   |
| 26 51 16 00-0033 EA 6 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 524.93                    | 65.50                   |
| <b>26 51 16 00-0034 4' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)</b>   |                           |                         |
| 26 51 16 00-0035 EA 4 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 841.43                    | 84.33                   |
| 26 51 16 00-0036 EA 6 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture .....   | 854.69                    | 84.33                   |
| 26 51 16 00-0037 EA 8 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....  | 636.52                    | 84.33                   |
| <b>26 51 16 00-0038 Recessed Fluorescent Fixtures (26 51 16 00-0001)</b>   |                           |                         |
| <b>26 51 16 00-0039 Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)</b>   |                           |                         |
| <b>26 51 16 00-0040 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)</b>   |                           |                         |



|              |                          |
|--------------|--------------------------|
| <b>26</b>    | <b>Electrical</b>        |
| <b>26 50</b> | <b>Lighting</b>          |
| <b>26 51</b> | <b>Interior Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 16 00-0041 EA 2 T8 Lamps, 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 377.59<br>29.73           | 43.99                   |
| <b>26 51 16 00-0042 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)</b>  |                           |                         |
| 26 51 16 00-0043 EA 2 T8 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 497.30<br>34.79           | 51.02                   |
| 26 51 16 00-0044 EA 2 T5 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 918.41<br>34.79           | 51.02                   |
| <b>26 51 16 00-0045 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)</b>  |                           |                         |
| 26 51 16 00-0046 EA 2 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 504.23<br>37.95           | 56.22                   |
| 26 51 16 00-0047 EA 3 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 578.67<br>37.95           | 56.22                   |
| 26 51 16 00-0048 EA 4 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 584.37<br>37.96           | 56.22                   |
| 26 51 16 00-0049 EA 2 T5 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 629.59<br>37.95           | 56.22                   |
| <b>26 51 16 00-0050 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)</b>  |                           |                         |
| 26 51 16 00-0051 EA 2 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 485.32<br>44.28           | 65.50                   |
| 26 51 16 00-0052 EA 3 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 683.05<br>44.28           | 65.50                   |
| 26 51 16 00-0053 EA 4 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 689.68<br>44.28           | 65.50                   |
| 26 51 16 00-0054 EA 6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 769.09<br>44.28           | 65.50                   |
| 26 51 16 00-0055 EA 2 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 657.69<br>44.28           | 65.50                   |
| 26 51 16 00-0056 EA 3 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 906.38<br>44.28           | 65.50                   |
| 26 51 16 00-0057 EA 4 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>    | 922.19<br>44.28           | 65.50                   |
| <b>26 51 16 00-0058 Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)</b>   |                           |                         |
| <b>26 51 16 00-0059 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)</b>                                    |                           |                         |
| 26 51 16 00-0060 EA 1 T8 Lamp, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>  | 445.41<br>29.73           | 43.99                   |
| 26 51 16 00-0061 EA 2 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 451.09<br>29.73           | 43.99                   |
| 26 51 16 00-0062 EA 3 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 530.27<br>29.73           | 43.99                   |
| <b>26 51 16 00-0063 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)</b>                                    |                           |                         |
| 26 51 16 00-0064 EA 1 T8 Lamp, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i>  | 507.47<br>34.79           | 51.02                   |
| 26 51 16 00-0065 EA 2 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 514.10<br>34.79           | 51.02                   |
| 26 51 16 00-0066 EA 3 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 581.11<br>34.79           | 51.02                   |
| <b>26 51 16 00-0067 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)</b>                                    |                           |                         |
| 26 51 16 00-0068 EA 2 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 520.20<br>37.96           | 56.22                   |
| 26 51 16 00-0069 EA 3 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 525.88<br>37.96           | 56.22                   |
| 26 51 16 00-0070 EA 4 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 603.85<br>37.96           | 56.22                   |
| <b>26 51 16 00-0071 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)</b>                                    |                           |                         |
| 26 51 16 00-0072 EA 2 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 485.32<br>44.28           | 65.50                   |
| 26 51 16 00-0073 EA 3 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 569.42<br>44.28           | 65.50                   |
| 26 51 16 00-0074 EA 4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 649.26<br>44.28           | 65.50                   |
| 26 51 16 00-0075 EA 6 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture<br><i>For Drywall Or Plaster Ceilings, Add</i> | 736.02<br>44.28           | 65.50                   |
| <b>26 51 16 00-0076 Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0038)</b>   |                           |                         |
| <b>26 51 16 00-0077 1' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)</b>  |                           |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Interior Lighting | 26 51     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 16 00-0078 EA 1 T8 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                       | 968.41<br>34.79           | 51.02                   |
| 26 51 16 00-0079 EA 2 T8 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 975.04<br>34.79           | 51.02                   |
| 26 51 16 00-0080 EA 1 T5 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                       | 1,151.41<br>34.79         | 51.02                   |
| 26 51 16 00-0081 EA 2 T5 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 1,167.22<br>34.79         | 51.02                   |
| <b>26 51 16 00-0082 2' x 2', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)</b>  |                           |                         |
| 26 51 16 00-0083 EA 2 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 763.35<br>37.95           | 56.22                   |
| 26 51 16 00-0084 EA 3 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 852.56<br>37.95           | 56.22                   |
| 26 51 16 00-0085 EA 2 T5 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 1,045.91<br>37.95         | 56.22                   |
| <b>26 51 16 00-0086 2' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)</b>  |                           |                         |
| 26 51 16 00-0087 EA 2 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 856.48<br>44.28           | 65.50                   |
| 26 51 16 00-0088 EA 3 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 1,061.56<br>44.28         | 65.50                   |
| 26 51 16 00-0089 EA 1 T5 Lamp, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                       | 1,130.97<br>44.28         | 65.50                   |
| 26 51 16 00-0090 EA 2 T5 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                      | 1,241.78<br>44.28         | 65.50                   |
| <b>26 51 16 00-0091 Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0038)</b>  |                           |                         |
| <b>26 51 16 00-0092 1' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)</b>   |                           |                         |
| 26 51 16 00-0093 EA 2 T8 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                           | 753.53<br>34.79           | 51.02                   |
| 26 51 16 00-0094 EA 2 T5 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                           | 1,003.23<br>34.79         | 51.02                   |
| <b>26 51 16 00-0095 2' x 2', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)</b>   |                           |                         |
| 26 51 16 00-0096 EA 2 T8 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                           | 750.59<br>37.95           | 56.22                   |
| 26 51 16 00-0097 EA 2 T5 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                           | 862.23<br>37.95           | 56.22                   |
| <b>26 51 16 00-0098 2' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)</b>   |                           |                         |
| 26 51 16 00-0099 EA 2 T8 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                           | 833.64<br>44.28           | 65.50                   |
| 26 51 16 00-0100 EA 2 T5 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add                           | 835.50<br>44.28           | 65.50                   |
| <b>26 51 16 00-0101 Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)</b>                                      |                           |                         |
| <b>26 51 16 00-0102 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)</b>                             |                           |                         |
| 26 51 16 00-0103 EA 2 T8 Lamps, 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add | 697.66<br>34.79           | 51.02                   |
| <b>26 51 16 00-0104 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)</b>                             |                           |                         |
| 26 51 16 00-0105 EA 2 T8 Lamps, 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add | 667.62<br>37.95           | 56.22                   |
| <b>26 51 16 00-0106 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)</b>                             |                           |                         |
| 26 51 16 00-0107 EA 2 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add | 809.26<br>44.28           | 65.50                   |
| 26 51 16 00-0108 EA 3 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add | 631.57<br>44.28           | 65.50                   |
| 26 51 16 00-0109 EA 4 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture<br>For Drywall Or Plaster Ceilings, Add | 928.81<br>44.28           | 65.50                   |
| <b>26 51 16 00-0110 Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)</b>                                  |                           |                         |

|    |              |                          |
|----|--------------|--------------------------|
| 26 | <b>26</b>    | <b>Electrical</b>        |
|    | <b>26 50</b> | <b>Lighting</b>          |
|    | <b>26 51</b> | <b>Interior Lighting</b> |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 51 16 00-0111 |     |     | <b>1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures</b> <small>(26 51 16 00-0110)</small>                        |                        |                      |
| 26 51 16 00-0112 | EA  |     | 2 T8 Lamps, 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture .....<br><i>For Drywall Or Plaster Ceilings, Add</i> | 663.74<br>34.79        | 51.02                |
| 26 51 16 00-0113 |     |     | <b>2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures</b> <small>(26 51 16 00-0110)</small>                        |                        |                      |
| 26 51 16 00-0114 | EA  |     | 2 T8 Lamps, 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture .....<br><i>For Drywall Or Plaster Ceilings, Add</i> | 666.81<br>37.95        | 56.22                |
| 26 51 16 00-0115 |     |     | <b>2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures</b> <small>(26 51 16 00-0110)</small>                        |                        |                      |
| 26 51 16 00-0116 | EA  |     | 2 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture .....<br><i>For Drywall Or Plaster Ceilings, Add</i> | 828.30<br>44.28        | 65.50                |
| 26 51 16 00-0117 | EA  |     | 3 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture .....<br><i>For Drywall Or Plaster Ceilings, Add</i> | 841.55<br>44.28        | 65.50                |
| 26 51 16 00-0118 | EA  |     | 4 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture .....<br><i>For Drywall Or Plaster Ceilings, Add</i> | 862.22<br>44.28        | 65.50                |
| 26 51 16 00-0119 |     |     | <b>Striplight Fluorescent Fixtures</b> <small>(26 51 16 00-0001)</small>   |                        |                      |
| 26 51 16 00-0120 |     |     | <b>1 Lamp Cross Section, Striplight Fluorescent Fixtures</b> <small>(26 51 16 00-0119)</small>   |                        |                      |
| 26 51 16 00-0121 | EA  |     | 1-1/2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture .....   | 278.26                 | 42.16                |
| 26 51 16 00-0122 | EA  |     | 2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....  | 343.37                 | 42.16                |
| 26 51 16 00-0123 | EA  |     | 3' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....  | 336.77                 | 46.80                |
| 26 51 16 00-0124 | EA  |     | 4' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....  | 343.68                 | 51.44                |
| 26 51 16 00-0125 | EA  |     | 8' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....  | 420.12                 | 60.93                |
| 26 51 16 00-0126 |     |     | <b>2 Lamp Cross Section, Striplight Fluorescent Fixtures</b> <small>(26 51 16 00-0119)</small>   |                        |                      |
| 26 51 16 00-0127 | EA  |     | 2' Length, 2 T8 Lamps, Striplight Fluorescent Fixture .....  | 341.38                 | 46.80                |
| 26 51 16 00-0128 | EA  |     | 3' Length, 2 T8 Lamps, Striplight Fluorescent Fixture .....  | 350.57                 | 51.44                |
| 26 51 16 00-0129 | EA  |     | 4' Length, 2 T8 Lamps, Striplight Fluorescent Fixture .....  | 357.34                 | 56.22                |
| 26 51 16 00-0130 |     |     | <b>3 Lamp Cross Section, Striplight Fluorescent Fixtures</b> <small>(26 51 16 00-0119)</small>   |                        |                      |
| 26 51 16 00-0131 | EA  |     | 2' Length, 3 T8 Lamps, Striplight Fluorescent Fixture .....  | 505.08                 | 46.80                |
| 26 51 16 00-0132 | EA  |     | 3' Length, 3 T8 Lamps, Striplight Fluorescent Fixture .....  | 485.95                 | 51.44                |
| 26 51 16 00-0133 | EA  |     | 4' Length, 3 T8 Lamps, Striplight Fluorescent Fixture .....  | 492.61                 | 56.22                |
| 26 51 16 00-0134 |     |     | <b>Display Case Fluorescent Fixtures</b> <small>(26 51 16 00-0119)</small>   |                        |                      |
| 26 51 16 00-0135 | EA  |     | 1 T8 Lamp, 1-1/2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU15W).....   | 191.31                 | 46.15                |
| 26 51 16 00-0136 | EA  |     | 1 T8 Lamp, 2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU20W).....   | 254.71                 | 46.15                |
| 26 51 16 00-0137 | EA  |     | 1 T8 Lamp, 3' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU30W).....   | 275.32                 | 53.83                |
| 26 51 16 00-0138 | EA  |     | 1 T8 Lamp, 4' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU40W).....   | 284.23                 | 53.83                |
| 26 51 16 00-0139 |     |     | <b>Industrial Fluorescent Fixtures</b> <small>(26 51 16 00-0001)</small>   |                        |                      |
| 26 51 16 00-0140 |     |     | <b>1 Lamp Cross Section, Industrial Fluorescent Fixtures</b> <small>(26 51 16 00-0139)</small>   |                        |                      |
| 26 51 16 00-0141 | EA  |     | 2' Length, 1 T8 Lamp, Industrial Fluorescent Fixture .....   | 405.85                 | 42.16                |
| 26 51 16 00-0142 | EA  |     | 4' Length, 1 T8 Lamp, Industrial Fluorescent Fixture .....   | 428.01                 | 51.44                |
| 26 51 16 00-0143 | EA  |     | 8' Length, 1 T8 Lamp, Industrial Fluorescent Fixture .....   | 794.01                 | 65.50                |
| 26 51 16 00-0144 |     |     | <b>2 Lamp Cross Section, Industrial Fluorescent Fixtures</b> <small>(26 51 16 00-0139)</small>   |                        |                      |
| 26 51 16 00-0145 | EA  |     | 2' Length, 2 T8 Lamps, Industrial Fluorescent Fixture .....  | 418.55                 | 46.80                |
| 26 51 16 00-0146 | EA  |     | 4' Length, 2 T8 Lamps, Industrial Fluorescent Fixture .....  | 441.70                 | 56.22                |
| 26 51 16 00-0147 | EA  |     | 8' Length, 2 T8 Lamps, Industrial Fluorescent Fixture .....  | 807.28                 | 65.50                |
| 26 51 16 00-0148 |     |     | <b>3 Lamp Cross Section, Industrial Fluorescent Fixtures</b> <small>(26 51 16 00-0139)</small>   |                        |                      |
| 26 51 16 00-0149 | EA  |     | 2' Length, 3 T8 Lamps, Industrial Fluorescent Fixture .....  | 435.25                 | 46.80                |
| 26 51 16 00-0150 | EA  |     | 4' Length, 3 T8 Lamps, Industrial Fluorescent Fixture .....  | 456.60                 | 56.22                |
| 26 51 16 00-0151 | EA  |     | 8' Length, 3 T8 Lamps, Industrial Fluorescent Fixture .....  | 695.60                 | 65.50                |
| 26 51 16 00-0152 |     |     | <b>4 Lamp Cross Section, Industrial Fluorescent Fixtures</b> <small>(26 51 16 00-0139)</small>   |                        |                      |
| 26 51 16 00-0153 | EA  |     | 4' Length, 4 T8 Lamps, Industrial Fluorescent Fixture .....  | 631.91                 | 56.22                |
| 26 51 16 00-0154 | EA  |     | 8' Length, 4 T8 Lamps, Industrial Fluorescent Fixture .....  | 929.35                 | 65.50                |
| 26 51 16 00-0155 |     |     | <b>Flanged Fluorescent Fixture</b> <small>(26 51 16 00-0001)</small><br>Note: For plaster or drywall application. With electronic ballast.       |                        |                      |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Interior Lighting | 26 51     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 51 16 00-0156 EA 2 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture.....  | 594.27                    | 84.33                   |
| 26 51 16 00-0157 EA 3 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture.....  | 711.15                    | 84.33                   |
| 26 51 16 00-0158 EA 4 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture.....  | 717.78                    | 84.33                   |
| <b>26 51 16 00-0159 Undercabinet Fluorescent Fixtures</b> (26 51 16 00-0001)   |                           |                         |
| 26 51 16 00-0160 EA 1 T5 Lamp, 12-3/16" Length, Slimline Undercabinet Fluorescent Fixture.....   | 216.13                    | 37.95                   |
| 26 51 16 00-0161 EA 1 T5 Lamp, 21-3/16" Length, Slimline Undercabinet Fluorescent Fixture.....   | 251.34                    | 46.38                   |
| 26 51 16 00-0162 EA 2 T5 Lamps, 24-7/16" Length, Slimline Undercabinet Fluorescent Fixture.....  | 247.15                    | 46.38                   |
| 26 51 16 00-0163 EA 1 T5 Lamp, 33-7/16" Length, Slimline Undercabinet Fluorescent Fixture.....   | 299.38                    | 50.60                   |
| 26 51 16 00-0164 EA 2 T5 Lamps, 42-7/16" Length, Slimline Undercabinet Fluorescent Fixture.....  | 348.03                    | 59.03                   |
| <b>26 51 16 00-0165 Corner Mounted, Fluorescent Fixtures</b> (26 51 16 00-0001)<br>Note: Includes acrylic drop dish diffuser.  |                           |                         |
| <b>26 51 16 00-0166 2' Length, Corner Mounted, Fluorescent Fixtures</b> (26 51 16 00-0165)   |                           |                         |
| 26 51 16 00-0167 EA 1 T8 Lamp, 2' Length, Corner Mounted, Fluorescent Fixture.....   | 271.23                    | 42.16                   |
| 26 51 16 00-0168 EA 2 T8 Lamps, 2' Length, Corner Mounted, Fluorescent Fixture.....  | 301.21                    | 42.16                   |
| <b>26 51 16 00-0169 3' Length, Corner Mounted, Fluorescent Fixtures</b> (26 51 16 00-0165)   |                           |                         |
| 26 51 16 00-0170 EA 1 T8 Lamp, 3' Length, Corner Mounted, Fluorescent Fixture.....   | 308.56                    | 44.27                   |
| 26 51 16 00-0171 EA 2 T8 Lamps, 3' Length, Corner Mounted, Fluorescent Fixture.....  | 337.17                    | 44.27                   |
| <b>26 51 16 00-0172 4' Length, Corner Mounted, Fluorescent Fixtures</b> (26 51 16 00-0165)   |                           |                         |
| 26 51 16 00-0173 EA 1 T8 Lamp, 4' Length, Corner Mounted, Fluorescent Fixture.....   | 304.76                    | 46.38                   |
| 26 51 16 00-0174 EA 2 T8 Lamps, 4' Length, Corner Mounted, Fluorescent Fixture.....  | 334.36                    | 46.38                   |
| <b>26 51 16 00-0175 Wall Bracket, Fluorescent Fixtures</b> (26 51 16 00-0001)  |                           |                         |
| <b>26 51 16 00-0176 Wall Bracket, Fluorescent Fixtures (Lithonia W)</b> (26 51 16 00-0175)<br>Note: Includes extruded aluminum housing with brushed finish, acrylic diffuser and solid-state electronic ballast. |                           |                         |
| <b>26 51 16 00-0177 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W)</b> (26 51 16 00-0176)  |                           |                         |
| 26 51 16 00-0178 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....  | 266.82                    | 70.75                   |
| 26 51 16 00-0179 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....   | 271.66                    | 70.75                   |
| <b>26 51 16 00-0180 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W)</b> (26 51 16 00-0176)  |                           |                         |
| 26 51 16 00-0181 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....  | 341.13                    | 70.75                   |
| 26 51 16 00-0182 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....   | 347.90                    | 70.75                   |
| <b>26 51 16 00-0183 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W)</b> (26 51 16 00-0176)  |                           |                         |
| 26 51 16 00-0184 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....  | 352.64                    | 70.75                   |
| 26 51 16 00-0185 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....   | 357.48                    | 70.75                   |
| <b>26 51 16 00-0186 Wall Bracket, Fluorescent Fixtures (Lithonia WP)</b> (26 51 16 00-0175)<br>Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.     |                           |                         |
| <b>26 51 16 00-0187 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP)</b> (26 51 16 00-0186)   |                           |                         |
| 26 51 16 00-0188 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....   | 688.21                    | 70.75                   |
| 26 51 16 00-0189 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....  | 693.06                    | 70.75                   |
| <b>26 51 16 00-0190 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP)</b> (26 51 16 00-0186)   |                           |                         |
| 26 51 16 00-0191 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....   | 542.77                    | 70.75                   |
| 26 51 16 00-0192 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....  | 549.53                    | 70.75                   |
| <b>26 51 16 00-0193 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP)</b> (26 51 16 00-0186)   |                           |                         |
| 26 51 16 00-0194 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....   | 625.19                    | 70.75                   |
| 26 51 16 00-0195 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....  | 630.03                    | 70.75                   |
| <b>26 51 16 00-0196 Wall Bracket, Fluorescent Fixtures (Lithonia WC)</b> (26 51 16 00-0175)<br>Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.     |                           |                         |
| <b>26 51 16 00-0197 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC)</b> (26 51 16 00-0196)   |                           |                         |
| 26 51 16 00-0198 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....   | 256.16                    | 70.75                   |
| 26 51 16 00-0199 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....  | 261.00                    | 70.75                   |
| <b>26 51 16 00-0200 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC)</b> (26 51 16 00-0196)   |                           |                         |
| 26 51 16 00-0201 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....   | 258.08                    | 70.75                   |
| 26 51 16 00-0202 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....  | 264.84                    | 70.75                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 51 16 00-0203</b> 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) <sup>(26 51 16 00-0196)</sup>  |                           |                         |
| 26 51 16 00-0204 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....   | 247.99                    | 70.75                   |
| 26 51 16 00-0205 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....  | 252.83                    | 70.75                   |
| <b>26 51 16 00-0206</b> Low Occupancy, Industrial Fluorescent Fixtures <sup>(26 51 16 00-0001)</sup>   |                           |                         |
| 26 51 16 00-0207 EA 1 T8 Lamp, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....  | 299.42                    | 51.44                   |
| 26 51 16 00-0208 EA 2 T8 Lamps, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP)..... | 306.45                    | 56.22                   |
| <b>26 51 16 00-0209</b> Ceiling Mounted Fluorescent Fixtures <sup>(26 51 16)</sup>   |                           |                         |
| <b>26 51 16 00-0210</b> Ceiling Mounted, Compact Fluorescent/Incandescent Fixtures <sup>(26 51 16 00-0209)</sup>   |                           |                         |
| <b>26 51 16 00-0211</b> Glass Globe, Compact Fluorescent/Incandescent Fixtures <sup>(26 51 16 00-0210)</sup>   |                           |                         |
| 26 51 16 00-0212 EA 6" Diameter, Ceiling Mounted, Glass Globe, Compact Fluorescent/Incandescent Fixture .....  | 229.29                    | 61.53                   |
| 26 51 16 00-0213 EA 9" Diameter, Ceiling Mounted, Mushroom Style Glass Globe, Compact Fluorescent/Incandescent Fixture.....                                | 276.15                    | 61.53                   |
| <b>26 51 16 00-0214</b> Ceiling Mounted, Circline Fluorescent Fixtures <sup>(26 51 16 00-0209)</sup>   |                           |                         |
| <b>26 51 16 00-0215</b> Exposed Lamps, Circline Fluorescent Fixtures <sup>(26 51 16 00-0214)</sup>   |                           |                         |
| 26 51 16 00-0216 EA 8-1/2" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture .....  | 187.91                    | 61.53                   |
| 26 51 16 00-0217 EA 12" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture .....   | 205.52                    | 61.53                   |
| <b>26 51 16 00-0218</b> Low Profile Acrylic Diffuser, Circline Fluorescent Fixtures <sup>(26 51 16 00-0214)</sup>  |                           |                         |
| 26 51 16 00-0219 EA 11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture .....  | 291.40                    | 61.53                   |
| 26 51 16 00-0220 EA 14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture .....  | 420.38                    | 61.53                   |
| 26 51 16 00-0221 EA 19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture .....  | 509.76                    | 61.53                   |
| 26 51 16 00-0222 EA 12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture .....  | 333.18                    | 61.53                   |
| 26 51 16 00-0223 EA 15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture .....  | 423.03                    | 61.53                   |
| 26 51 16 00-0224 EA 19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture .....  | 509.76                    | 61.53                   |
| <b>26 51 16 00-0225</b> Ceiling Mounted, Double Twin Tube Compact Fluorescent Fixtures <sup>(26 51 16 00-0209)</sup>                                       |                           |                         |
| <b>26 51 16 00-0226</b> Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixtures <sup>(26 51 16 00-0225)</sup>                          |                           |                         |
| 26 51 16 00-0227 EA 11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....                         | 295.66                    | 61.53                   |
| 26 51 16 00-0228 EA 14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....                         | 389.70                    | 61.53                   |
| 26 51 16 00-0229 EA 19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture .....                        | 470.00                    | 61.53                   |
| 26 51 16 00-0230 EA 12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....                           | 235.21                    | 61.53                   |
| 26 51 16 00-0231 EA 15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....                           | 284.41                    | 61.53                   |
| 26 51 16 00-0232 EA 19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....                           | 377.65                    | 61.53                   |
| <b>26 51 16 00-0233</b> Pendant Mounted, Compact Fluorescent/Incandescent Downlights <sup>(26 51 16 00-0209)</sup>   |                           |                         |
| <b>26 51 16 00-0234</b> Pendant Mounted, Compact Fluorescent/Incandescent Open Reflector Downlights <sup>(26 51 16 00-0233)</sup>                          |                           |                         |
| 26 51 16 00-0235 EA 6" Diameter, Pendant Mounted, Open Reflector Compact Fluorescent/Incandescent Downlight.....   | 476.26                    | 50.55                   |
| <b>26 51 16 00-0236</b> Pendant Mounted, Compact Fluorescent/Incandescent Downlights With Baffle <sup>(26 51 16 00-0233)</sup>                             |                           |                         |
| 26 51 16 00-0237 EA 6" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....  | 547.59                    | 50.55                   |
| 26 51 16 00-0238 EA 8" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....  | 777.71                    | 50.55                   |
| <b>26 51 16 00-0239</b> Pendant Mounted, Horizontal Indirect Fluorescent Fixtures <sup>(26 51 16 00-0209)</sup>  |                           |                         |
| 26 51 16 00-0240 EA 1 T5HO Lamp, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture .....   | 316.91                    | 50.55                   |
| 26 51 16 00-0241 EA 2 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture .....  | 334.87                    | 50.55                   |
| 26 51 16 00-0242 EA 3 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture .....  | 397.64                    | 50.55                   |
| 26 51 16 00-0243 EA 2 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture .....  | 414.32                    | 50.55                   |
| 26 51 16 00-0244 EA 4 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture .....  | 490.97                    | 50.55                   |
| 26 51 16 00-0245 EA 6 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture .....  | 581.89                    | 50.55                   |
| <b>26 51 16 00-0246</b> Finelite Fluorescent Fixtures <sup>(26 51 16 00-0209)</sup>  |                           |                         |
| <b>26 51 16 00-0247</b> Pendant Mounted, Fluorescent Downlight Fixtures (Finelite Series 10) <sup>(26 51 16 00-0246)</sup>                                 |                           |                         |
| 26 51 16 00-0248 EA 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....              | 536.05                    | 71.68                   |
| 26 51 16 00-0249 EA 2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....             | 533.86                    | 71.68                   |



| MINOR                   |     | DESCRIPTION  |  | TOTAL DIRECT    | DEMOLITION |
|-------------------------|-----|--|--|-----------------|------------|
| CSI                     | UOM |  |  | UNIT COST       | UNIT COST  |
| 26 51 16 00-0250        | EA  | 3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....     |  | 575.79          | 71.68      |
| 26 51 16 00-0251        | EA  | 1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....    |  | 641.07          | 71.68      |
| 26 51 16 00-0252        | EA  | 2 T5HO Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....   |  | 699.76          | 71.68      |
| 26 51 16 00-0253        | EA  | 3 T5HO Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....   |  | 855.54          | 71.68      |
| 26 51 16 00-0254        | EA  | 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....     |  | 757.58          | 74.76      |
| 26 51 16 00-0255        | EA  | 4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....     |  | 779.68          | 74.76      |
| 26 51 16 00-0256        | EA  | 6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....     |  | 863.55          | 74.76      |
| 26 51 16 00-0257        | EA  | 2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....   |  | 826.40          | 74.76      |
| 26 51 16 00-0258        | EA  | 4 T5HO Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....   |  | 1,032.04        | 74.76      |
| 26 51 16 00-0259        | EA  | 6 T5HO Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....   |  | 1,211.21        | 74.76      |
| 26 51 16 00-0260        | EA  | 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....    |  | 996.78          | 77.84      |
| 26 51 16 00-0261        | EA  | 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....    |  | 1,034.33        | 77.84      |
| 26 51 16 00-0262        | EA  | 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....    |  | 1,142.50        | 77.84      |
| 26 51 16 00-0263        | EA  | 3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....  |  | 1,144.13        | 77.84      |
| 26 51 16 00-0264        | EA  | 6 T5HO Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....  |  | 1,408.47        | 77.84      |
| 26 51 16 00-0265        | EA  | 9 T5HO Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....  |  | 1,681.63        | 77.84      |
| <b>26 51 16 00-0266</b> |     | <b>Pendant Mounted, Fluorescent Wallwash Fixtures (Finelite Series X2-O)</b> <small>(26 51 16 00-0246)</small>                 |  |                 |            |
| 26 51 16 00-0267        | EA  | 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....     |  | 543.49          | 71.68      |
| 26 51 16 00-0268        | EA  | 1 T5 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....     |  | 590.68          | 71.68      |
| 26 51 16 00-0269        | EA  | 1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....   |  | 589.03          | 71.68      |
| 26 51 16 00-0270        | EA  | 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....    |  | 791.99          | 74.76      |
| 26 51 16 00-0271        | EA  | 2 T5 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....    |  | 846.57          | 74.76      |
| 26 51 16 00-0272        | EA  | 2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....  |  | 843.26          | 74.76      |
| 26 51 16 00-0273        | EA  | 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....   |  | 1,040.51        | 77.84      |
| 26 51 16 00-0274        | EA  | 3 T5 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....   |  | 1,182.07        | 77.84      |
| 26 51 16 00-0275        | EA  | 3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)..... |  | 1,177.11        | 77.84      |
| <b>26 51 16 00-0276</b> |     | <b>Pendant Mounted, Fluorescent Indirect Fixtures (Finelite Series 8)</b> <small>(26 51 16 00-0246)</small>                    |  |                 |            |
| 26 51 16 00-0277        | EA  | 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....      |  | 418.57          | 71.68      |
| 26 51 16 00-0278        | EA  | 2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....     |  | 440.46          | 71.68      |
| 26 51 16 00-0279        | EA  | 3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....     |  | 518.29          | 71.68      |
| 26 51 16 00-0280        | EA  | 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....     |  | 542.69          | 74.76      |
| 26 51 16 00-0281        | EA  | 4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....     |  | 637.33          | 74.76      |
| 26 51 16 00-0282        | EA  | 6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....     |  | 749.76          | 74.76      |
| 26 51 16 00-0283        | EA  | 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....    |  | 743.11          | 77.84      |
| 26 51 16 00-0284        | EA  | 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....    |  | 905.41          | 77.84      |
| 26 51 16 00-0285        | EA  | 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....    |  | 1,077.87        | 77.84      |
| <b>26 51 16 00-0286</b> |     | <b>Fluorescent, Recessed Fixture Housings</b> <small>(26 51 16)</small>  |  |                 |            |
| 26 51 16 00-0287        | EA  | 4" Round, Fluorescent, T Or ICT Recessed Fixture Housing<br><i>For ICAT Housing, Add</i>                                       |  | 152.23<br>11.10 | 44.00      |
| 26 51 16 00-0288        | EA  | 5" Round, Fluorescent, T Or ICT Recessed Fixture Housing<br><i>For ICAT Housing, Add</i>                                       |  | 156.92<br>11.71 | 44.00      |
| 26 51 16 00-0289        | EA  | 6" Round, Fluorescent, T Or ICT Recessed Fixture Housing<br><i>For ICAT Housing, Add</i>                                       |  | 163.55<br>12.17 | 45.99      |

26 Electrical

26 50 Lighting

26 51 Interior Lighting



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 51 16 00-0290        | EA  |     | 7" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....  | 171.78                 | 47.68                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 12.83                  |                      |
| 26 51 16 00-0291        | EA  |     | 8" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....  | 179.05                 | 50.15                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 13.37                  |                      |
| 26 51 16 00-0292        | EA  |     | 10" To 12" Square, Fluorescent, T Or ICT Recessed Fixture Housing.....   | 185.80                 | 53.22                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 13.65                  |                      |
| <b>26 51 16 00-0293</b> |     |     | <b>Compact Fluorescent, Recessed Fixture Housings</b> (26 51 16)   |                        |                      |
| 26 51 16 00-0294        | EA  |     | 4" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....  | 172.40                 | 44.00                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 13.71                  |                      |
| 26 51 16 00-0295        | EA  |     | 5" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....  | 177.02                 | 44.00                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 14.30                  |                      |
| 26 51 16 00-0296        | EA  |     | 6" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....  | 183.80                 | 46.15                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 14.78                  |                      |
| 26 51 16 00-0297        | EA  |     | 7" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....  | 189.38                 | 48.14                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 15.10                  |                      |
| 26 51 16 00-0298        | EA  |     | 8" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....  | 195.70                 | 50.15                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 15.52                  |                      |
| 26 51 16 00-0299        | EA  |     | 10" To 12" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....  | 202.10                 | 53.22                |
|                         |     |     | <i>For ICAT Housing, Add</i>   | 15.75                  |                      |
| <b>26 51 16 00-0300</b> |     |     | <b>Fluorescent Track Lighting Fixtures</b> (26 51 16)  |                        |                      |
| 26 51 16 00-0301        | EA  |     | 2L 18W BX Track Fixture, Electronic Ballast.....   | 304.21                 | 25.68                |
|                         |     |     | Note: White or Black Finish, 120V.   |                        |                      |
| 26 51 16 00-0302        | EA  |     | 2L 39W BX Track Fixture, Electronic Ballast.....   | 312.97                 | 25.68                |
|                         |     |     | Note: White or Black Finish, 120V.   |                        |                      |
| 26 51 16 00-0303        | EA  |     | 2L 40W BX Track Fixture, Electronic Ballast.....   | 318.45                 | 25.68                |
|                         |     |     | Note: White or Black Finish, 120V.   |                        |                      |
| 26 51 16 00-0304        | EA  |     | 2L 50W BX Track Fixture, Electronic Ballast.....   | 202.72                 | 25.68                |
|                         |     |     | Note: White or Black Finish, 120V.   |                        |                      |
| 26 51 16 00-0305        | EA  |     | 2L, 55 Watt BX Track Fixture, Electronic Ballast.....  | 340.20                 | 25.68                |
|                         |     |     | Note: White or Black Finish, 120V.   |                        |                      |
| <b>26 51 16 00-0306</b> |     |     | <b>Compact Fluorescent Track Lighting Fixtures</b> (26 51 16)  |                        |                      |
| 26 51 16 00-0307        | EA  |     | Compact Fluorescent Track Lighting Fixture.....  | 109.62                 | 25.68                |
| <b>26 51 16 00-0308</b> |     |     | <b>Compact Fluorescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures</b> (26 51 16) |                        |                      |
| 26 51 16 00-0309        | EA  |     | 13 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....                    | 159.57                 | 61.53                |
|                         |     |     | <i>For Wall Mounted, Add</i>   | 6.02                   |                      |
| 26 51 16 00-0310        | EA  |     | 22 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....                    | 163.16                 | 61.53                |
|                         |     |     | <i>For Wall Mounted, Add</i>   | 6.02                   |                      |
| 26 51 16 00-0311        | EA  |     | 28 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....                    | 172.05                 | 61.53                |
|                         |     |     | <i>For Wall Mounted, Add</i>   | 6.02                   |                      |
| <b>26 51 16 00-0312</b> |     |     | <b>Wet Location, Dust Resistant, Vapor Tight, Enclosed And Gasketed, Industrial Fluorescent Fixtures</b> (26 51 16)                |                        |                      |
| <b>26 51 16 00-0313</b> |     |     | <b>4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures</b> (26 51 16 00-0312)  |                        |                      |
| <b>26 51 16 00-0314</b> |     |     | <b>4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia DMW)</b> (26 51 16 00-0313)                         |                        |                      |
|                         |     |     | Note: Includes high impact acrylic molded lens.  |                        |                      |
| 26 51 16 00-0315        | EA  |     | 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....                                    | 337.92                 | 65.50                |
|                         |     |     | <i>For T5 Fixture Instead Of T8, Add</i>   | 27.43                  |                      |
| 26 51 16 00-0316        | EA  |     | 2 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....                                   | 353.48                 | 65.50                |
|                         |     |     | <i>For T5 Fixture Instead Of T8, Add</i>   | 29.21                  |                      |
| 26 51 16 00-0317        | EA  |     | 3 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....                                   | 545.24                 | 65.50                |
|                         |     |     | <i>For T5 Fixture Instead Of T8, Add</i>   | 51.16                  |                      |
| 26 51 16 00-0318        | EA  |     | 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....                                  | 472.12                 | 65.50                |
| 26 51 16 00-0319        | EA  |     | 2 T8HO Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....                                 | 750.77                 | 65.50                |
| <b>26 51 16 00-0320</b> |     |     | <b>4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Day-Brite V2W)</b> (26 51 16 00-0313)                        |                        |                      |
|                         |     |     | Note: Includes high impact acrylic molded lens.  |                        |                      |
| 26 51 16 00-0321        | EA  |     | 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....                                   | 384.83                 | 65.50                |
| 26 51 16 00-0322        | EA  |     | 2 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....                                   | 389.49                 | 65.50                |
| 26 51 16 00-0323        | EA  |     | 3 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....                                   | 559.76                 | 65.50                |
| 26 51 16 00-0324        | EA  |     | 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....                                 | 465.66                 | 65.50                |
| 26 51 16 00-0325        | EA  |     | 2 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....                                 | 485.98                 | 65.50                |
| <b>26 51 16 00-0326</b> |     |     | <b>8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures</b> (26 51 16 00-0312)  |                        |                      |
|                         |     |     | Note: Includes high impact acrylic molded lens.  |                        |                      |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> |           |
| Lighting          | 26 50     | <b>26</b> |
| Interior Lighting | 26 51     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 51 16 00-0327 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia TDMW)</b> <small>(26 51 16 00-0326)</small><br>Note: Includes high impact acrylic molded lens. |                           |                         |
| 26 51 16 00-0328 EA 2 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW).....  | 629.96                    | 88.97                   |
| For T5 Fixture Instead Of T8, Add  | 56.84                     |                         |
| 26 51 16 00-0329 EA 4 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW).....  | 654.45                    | 88.97                   |
| For T5 Fixture Instead Of T8, Add  | 59.64                     |                         |
| <b>26 51 16 00-0330 High Bay Fluorescent Fixtures</b> <small>(26 51 16)</small>  |                           |                         |
| <b>26 51 16 00-0331 (T8) Fluorescent, High Bay Fixtures</b> <small>(26 51 16 00-0330)</small>  |                           |                         |
| <b>26 51 16 00-0332 (T8) Fluorescent, High Bay Fixtures (Lithonia)</b> <small>(26 51 16 00-0331)</small><br>Note: For 8' fixture, use two (2) 4' fixtures.                                     |                           |                         |
| 26 51 16 00-0333 EA 2 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 552.18                    | 143.36                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0334 EA 3 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 580.54                    | 158.82                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0335 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 658.32                    | 181.31                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0336 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 782.48                    | 191.01                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0337 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 849.43                    | 199.86                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0338 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....  | 503.40                    | 181.31                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0339 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....  | 530.71                    | 191.01                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0340 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....  | 601.62                    | 199.86                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| <b>26 51 16 00-0341 (T5HO) Fluorescent, High Bay Fixtures</b> <small>(26 51 16 00-0330)</small>  |                           |                         |
| <b>26 51 16 00-0342 (T5HO) Fluorescent, High Bay Fixtures (Lithonia)</b> <small>(26 51 16 00-0341)</small><br>Note: For 8' fixture, use two (2) 4' fixtures.                                   |                           |                         |
| 26 51 16 00-0343 EA 2 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 555.88                    | 143.36                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0344 EA 3 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 583.34                    | 158.82                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0345 EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 663.96                    | 181.31                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0346 EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....  | 796.01                    | 191.01                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0347 EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....  | 523.87                    | 181.31                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0348 EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....  | 573.54                    | 191.01                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |
| 26 51 16 00-0349 EA 8 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....  | 661.40                    | 199.86                  |
| For Wire Guard, Add  | 40.50                     |                         |
| For Polycarbonate Lens, Add  | 47.75                     |                         |
| For Acrylic Lens, Add  | 54.00                     |                         |

**26 51 19 LED Interior Lighting** (26 51)



**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 51 19 00-0001 |     |     | LED Fixtures <small>(26 51 19)</small>   |                        |                      |
| 26 51 19 00-0002 |     |     | Undercabinet LED Fixtures <small>(26 51 19 00-0001)</small>  |                        |                      |
| 26 51 19 00-0003 | EA  |     | 12" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ12-M6) .....   | 151.46                 | 37.95                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -5.37                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -9.15                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -15.15                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -21.14                 |                      |
| 26 51 19 00-0004 | EA  |     | 18" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ18-M6) .....   | 187.29                 | 46.38                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -6.61                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -11.30                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -18.73                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -26.16                 |                      |
| 26 51 19 00-0005 | EA  |     | 24" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ24-M6) .....   | 188.64                 | 46.38                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -6.65                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -11.36                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -18.86                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -26.36                 |                      |
| 26 51 19 00-0006 | EA  |     | 24" HIDE-A-LITE V Series LED Undercabinet Fixture (Progress Lighting P700003-028-30) .....   | 175.72                 | 37.95                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -5.97                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -10.37                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -17.57                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -24.78                 |                      |
| 26 51 19 00-0007 |     |     | Surface Mount Linear/Striplight LED Fixtures <small>(26 51 19 00-0001)</small>   |                        |                      |
| 26 51 19 00-0008 |     |     | Striplight LED Fixtures (Lithonia ZL) <small>(26 51 19 00-0007)</small>  |                        |                      |
| 26 51 19 00-0009 | EA  |     | 3,000 Lumens, 2' Length, LED Striplight Fixture (Lithonia ZL1) .....   | 219.95                 | 42.16                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.08                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.58                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -22.00                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -31.41                 |                      |
| 26 51 19 00-0010 | EA  |     | 2,800 Lumens, 4' Length, LED Striplight Fixture (Lithonia ZL1) .....   | 234.00                 | 51.44                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.78                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -13.63                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -23.40                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -33.17                 |                      |
| 26 51 19 00-0011 | EA  |     | 1,400 Lumens, 2' Length, Lensed LED Striplight Fixture (Lithonia ZL2) .....  | 249.76                 | 42.16                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.83                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -14.07                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -24.98                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -35.88                 |                      |
| 26 51 19 00-0012 | EA  |     | 2,300 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2) .....  | 263.81                 | 51.44                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.53                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -15.12                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -26.38                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -37.64                 |                      |
| 26 51 19 00-0013 | EA  |     | 4,600 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2) .....  | 324.28                 | 51.44                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.04                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -18.15                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -32.43                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -46.71                 |                      |
| 26 51 19 00-0014 |     |     | Striplight LED Fixtures (Mobern) <small>(26 51 19 00-0007)</small>   |                        |                      |
| 26 51 19 00-0015 | EA  |     | 1,100 Lumens, 12 Watt, 2' Length, Chrome, LED Bracket Fixture (Mobern 7924LED12DMV30) .....  | 232.51                 | 42.16                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.39                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -13.21                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -23.25                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -33.30                 |                      |
| 26 51 19 00-0016 |     |     | Striplight LED Fixtures (Eaton) <small>(26 51 19 00-0007)</small>  |                        |                      |
| 26 51 19 00-0017 | EA  |     | 2,301 Lumens, 18 Watt, 4' Length, LED Strip Lighting (Eaton Lighting 4SNLED-LD4-22SL-LC-UNV-L840-CD1-U) .....                          | 295.05                 | 51.44                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.31                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -16.69                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -29.51                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -42.33                 |                      |
| 26 51 19 00-0018 | EA  |     | 2,382 Lumens, 16 Watt, 4' Length, LED Clear Lensed Striplight (Cooper Industries 4SNLED-LD5-22SL-LC-UNV-L840-CD1-U) .....              | 279.17                 | 51.44                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.91                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -15.89                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -27.92                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -39.94                 |                      |
| 26 51 19 00-0019 | EA  |     | 2,382 Lumens, 16 Watt, 4' Length, Clear Lens, LED Striplight (Cooper Industries Metalux Series 4SNLED-LD5-22SL-LC-UNV-830-CD1-U) ..... | 295.05                 | 51.44                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -9.31                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -16.69                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -29.51                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -42.33                 |                      |
| 26 51 19 00-0020 |     |     | Bay-In/Troffer LED Fixtures <small>(26 51 19 00-0001)</small>  |                        |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 51 19 00-0021</b> Prismatic Lensed, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>            |                           |                         |
| <b>26 51 19 00-0022</b> Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lithonia) <small>(26 51 19 00-0021)</small> |                           |                         |
| 26 51 19 00-0023 EA 1' x 4', 3,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia TL4) .....       | 606.52                    | 51.02                   |
| For Drywall Or Plaster Ceilings With Frame Kit, Add  | 49.65                     |                         |
| For >50 To 100, Deduct   | -17.10                    |                         |
| For >100 To 250, Deduct  | -32.26                    |                         |
| For >250 To 500, Deduct  | -60.65                    |                         |
| For >500, Deduct   | -89.05                    |                         |
| 26 51 19 00-0024 EA 2' x 2', 3,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL2) .....      | 342.85                    | 56.22                   |
| For Drywall Or Plaster Ceilings, Add   | 37.95                     |                         |
| For >50 To 100, Deduct   | -10.68                    |                         |
| For >100 To 250, Deduct  | -19.25                    |                         |
| For >250 To 500, Deduct  | -34.29                    |                         |
| For >500, Deduct   | -49.32                    |                         |
| 26 51 19 00-0025 EA 2' x 4', 4,600 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL4) .....      | 616.22                    | 65.50                   |
| For Drywall Or Plaster Ceilings With Frame Kit, Add  | 55.41                     |                         |
| For >50 To 100, Deduct   | -17.87                    |                         |
| For >100 To 250, Deduct  | -33.27                    |                         |
| For >250 To 500, Deduct  | -61.62                    |                         |
| For >500, Deduct   | -89.97                    |                         |
| <b>26 51 19 00-0026</b> Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lunera) <small>(26 51 19 00-0021)</small>   |                           |                         |
| 26 51 19 00-0027 EA 1' x 4', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 14G4) .....       | 867.61                    | 51.02                   |
| For >50 To 100, Deduct   | -23.62                    |                         |
| For >100 To 250, Deduct  | -45.31                    |                         |
| For >250 To 500, Deduct  | -86.76                    |                         |
| For >500, Deduct   | -128.21                   |                         |
| 26 51 19 00-0028 EA 2' x 2', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 22G5) .....       | 615.89                    | 56.22                   |
| For >50 To 100, Deduct   | -17.51                    |                         |
| For >100 To 250, Deduct  | -32.90                    |                         |
| For >250 To 500, Deduct  | -61.59                    |                         |
| For >500, Deduct   | -90.28                    |                         |
| 26 51 19 00-0029 EA 2' x 4', 4,175 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 24G4) .....       | 800.20                    | 65.50                   |
| For >50 To 100, Deduct   | -22.47                    |                         |
| For >100 To 250, Deduct  | -42.47                    |                         |
| For >250 To 500, Deduct  | -80.02                    |                         |
| For >500, Deduct   | -117.57                   |                         |
| <b>26 51 19 00-0030</b> Prismatic Lensed, Lay-In/Troffer LED Fixtures (PlanLED) <small>(26 51 19 00-0021)</small>  |                           |                         |
| 26 51 19 00-0031 EA 2,591 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E) .....      | 411.15                    | 56.22                   |
| For >50 To 100, Deduct   | -12.39                    |                         |
| For >100 To 250, Deduct  | -22.67                    |                         |
| For >250 To 500, Deduct  | -41.12                    |                         |
| For >500, Deduct   | -59.56                    |                         |
| 26 51 19 00-0032 EA 3,883 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E) .....      | 453.32                    | 56.22                   |
| For >50 To 100, Deduct   | -13.44                    |                         |
| For >100 To 250, Deduct  | -24.77                    |                         |
| For >250 To 500, Deduct  | -45.33                    |                         |
| For >500, Deduct   | -65.89                    |                         |
| 26 51 19 00-0033 EA 3,700 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-40) .....   | 387.95                    | 56.22                   |
| For >50 To 100, Deduct   | -11.81                    |                         |
| For >100 To 250, Deduct  | -21.51                    |                         |
| For >250 To 500, Deduct  | -38.80                    |                         |
| For >500, Deduct   | -56.08                    |                         |
| 26 51 19 00-0034 EA 4,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-45) .....   | 387.95                    | 56.22                   |
| For >50 To 100, Deduct   | -11.81                    |                         |
| For >100 To 250, Deduct  | -21.51                    |                         |
| For >250 To 500, Deduct  | -38.80                    |                         |
| For >500, Deduct   | -56.08                    |                         |
| 26 51 19 00-0035 EA 4,600 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-50) .....   | 415.37                    | 56.22                   |
| For >50 To 100, Deduct   | -12.49                    |                         |
| For >100 To 250, Deduct  | -22.88                    |                         |
| For >250 To 500, Deduct  | -41.54                    |                         |
| For >500, Deduct   | -60.20                    |                         |
| <b>26 51 19 00-0036</b> Volumetric, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>                  |                           |                         |
| <b>26 51 19 00-0037</b> Volumetric, Lay-In/Troffer LED Fixtures (Lithonia) <small>(26 51 19 00-0036)</small>       |                           |                         |
| 26 51 19 00-0038 EA 1' x 4', 3,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4) .....            | 473.98                    | 51.02                   |
| For Drywall Or Plaster Ceilings, Add   | 34.79                     |                         |
| For >50 To 100, Deduct   | -13.78                    |                         |
| For >100 To 250, Deduct  | -25.63                    |                         |
| For >250 To 500, Deduct  | -47.40                    |                         |
| For >500, Deduct   | -69.16                    |                         |
| 26 51 19 00-0039 EA 1' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4) .....            | 706.67                    | 51.02                   |
| For Drywall Or Plaster Ceilings, Add   | 34.79                     |                         |
| For >50 To 100, Deduct   | -19.60                    |                         |
| For >100 To 250, Deduct  | -37.27                    |                         |
| For >250 To 500, Deduct  | -70.67                    |                         |
| For >500, Deduct   | -104.07                   |                         |

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR            | CSI | UOM     | DESCRIPTION   | TOTAL DIRECT UNIT COST                                   | DEMOLITION UNIT COST |
|------------------|-----|---------|---|--|----------------------|
| 26 51 19 00-0040 | EA  | 2' x 2' | 2,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) .....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                       | 553.68<br>48.77<br>-15.95<br>-29.79<br>-55.37<br>-80.94  | 56.22                |
| 26 51 19 00-0041 | EA  | 2' x 2' | 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) .....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                       | 633.68<br>52.77<br>-17.95<br>-33.79<br>-63.37<br>-92.94  | 56.22                |
| 26 51 19 00-0042 | EA  | 2' x 2' | 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>   | 697.69<br>-19.55<br>-36.99<br>-69.77<br>-102.55          | 56.22                |
| 26 51 19 00-0043 | EA  | 2' x 4' | 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) .....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                       | 711.75<br>60.19<br>-20.25<br>-38.05<br>-71.18<br>-104.30 | 65.50                |
| 26 51 19 00-0044 | EA  | 2' x 4' | 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) .....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                       | 775.75<br>63.39<br>-21.85<br>-41.25<br>-77.58<br>-113.90 | 65.50                |
| 26 51 19 00-0045 | EA  | 2' x 4' | 6,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) .....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                       | 839.75<br>66.59<br>-23.45<br>-44.45<br>-83.98<br>-123.50 | 65.50                |
| 26 51 19 00-0046 | EA  | 2' x 2' | 2,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2).....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 489.69<br>45.57<br>-14.35<br>-26.59<br>-48.97<br>-71.35  | 56.22                |
| 26 51 19 00-0047 | EA  | 2' x 2' | 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2).....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 569.68<br>49.57<br>-16.35<br>-30.59<br>-56.97<br>-83.34  | 56.22                |
| 26 51 19 00-0048 | EA  | 2' x 2' | 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2).....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 617.67<br>51.97<br>-17.55<br>-32.99<br>-61.77<br>-90.54  | 56.22                |
| 26 51 19 00-0049 | EA  | 2' x 4' | 3,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4).....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 615.75<br>55.39<br>-17.85<br>-33.25<br>-61.58<br>-89.90  | 65.50                |
| 26 51 19 00-0050 | EA  | 2' x 4' | 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4).....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 647.74<br>56.98<br>-18.65<br>-34.85<br>-64.77<br>-94.70  | 65.50                |
| 26 51 19 00-0051 | EA  | 2' x 4' | 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4).....<br><i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 711.75<br>60.19<br>-20.25<br>-38.05<br>-71.18<br>-104.30 | 65.50                |

26 51 19 00-0052 Architectural, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)

26 51 19 00-0053 Architectural, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0052)

Note: Includes 4,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0054 EA 2,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....                                       | 388.25                    | 65.50                   |
| For Drywall Or Plaster Ceilings With Frame Kit, Add   | 44.01                     |                         |
| For >50 To 100, Deduct  | -12.17                    |                         |
| For >100 To 250, Deduct   | -21.87                    |                         |
| For >250 To 500, Deduct   | -38.83                    |                         |
| For >500, Deduct  | -55.78                    |                         |
| 26 51 19 00-0055 EA 4,300 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....                                       | 449.95                    | 65.50                   |
| For Drywall Or Plaster Ceilings With Frame Kit, Add   | 47.10                     |                         |
| For >50 To 100, Deduct  | -13.71                    |                         |
| For >100 To 250, Deduct   | -24.96                    |                         |
| For >250 To 500, Deduct   | -45.00                    |                         |
| For >500, Deduct  | -65.03                    |                         |
| 26 51 19 00-0056 EA 6,400 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....                                       | 505.48                    | 65.50                   |
| For Drywall Or Plaster Ceilings With Frame Kit, Add   | 49.87                     |                         |
| For >50 To 100, Deduct  | -15.10                    |                         |
| For >100 To 250, Deduct   | -27.73                    |                         |
| For >250 To 500, Deduct   | -50.55                    |                         |
| For >500, Deduct  | -73.36                    |                         |
| <b>26 51 19 00-0057 Architectural, Lay-In/Troffer LED Fixtures (CREE® CR Series)</b> <small>(26 51 19 00-0052)</small>                          |                           |                         |
| <small>Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.</small> |                           |                         |
| 26 51 19 00-0058 EA 1' x 4', 2,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) .....  | 515.85                    | 65.50                   |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 170.87                    |                         |
| For Surface Mount, Add  | 275.26                    |                         |
| For >50 To 100, Deduct  | -15.36                    |                         |
| For >100 To 250, Deduct   | -28.25                    |                         |
| For >250 To 500, Deduct   | -51.59                    |                         |
| For >500, Deduct  | -74.92                    |                         |
| 26 51 19 00-0059 EA 1' x 4', 3,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) .....  | 555.90                    | 65.50                   |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 170.87                    |                         |
| For Surface Mount, Add  | 275.26                    |                         |
| For >50 To 100, Deduct  | -16.36                    |                         |
| For >100 To 250, Deduct   | -30.25                    |                         |
| For >250 To 500, Deduct   | -55.59                    |                         |
| For >500, Deduct  | -80.93                    |                         |
| 26 51 19 00-0060 EA 1' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) .....  | 555.90                    | 65.50                   |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 170.87                    |                         |
| For Surface Mount, Add  | 275.26                    |                         |
| For >50 To 100, Deduct  | -16.36                    |                         |
| For >100 To 250, Deduct   | -30.25                    |                         |
| For >250 To 500, Deduct   | -55.59                    |                         |
| For >500, Deduct  | -80.93                    |                         |
| 26 51 19 00-0061 EA 1' x 4', 5,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) .....  | 615.03                    | 65.50                   |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 170.87                    |                         |
| For Surface Mount, Add  | 275.26                    |                         |
| For >50 To 100, Deduct  | -17.84                    |                         |
| For >100 To 250, Deduct   | -33.21                    |                         |
| For >250 To 500, Deduct   | -61.50                    |                         |
| For >500, Deduct  | -89.79                    |                         |
| 26 51 19 00-0062 EA 2' x 2', 2,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™) .....                          | 479.13                    | 56.22                   |
| Note: CCT 30K to 50K  |                           |                         |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 149.18                    |                         |
| For Surface Mount, Add  | 259.10                    |                         |
| For >50 To 100, Deduct  | -14.09                    |                         |
| For >100 To 250, Deduct   | -26.06                    |                         |
| For >250 To 500, Deduct   | -47.91                    |                         |
| For >500, Deduct  | -69.76                    |                         |
| 26 51 19 00-0063 EA 2' x 2', 3,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™) .....                          | 452.20                    | 56.22                   |
| Note: CCT 30K to 50K  |                           |                         |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 149.18                    |                         |
| For Surface Mount, Add  | 259.10                    |                         |
| For >50 To 100, Deduct  | -13.41                    |                         |
| For >100 To 250, Deduct   | -24.72                    |                         |
| For >250 To 500, Deduct   | -45.22                    |                         |
| For >500, Deduct  | -65.72                    |                         |
| 26 51 19 00-0064 EA 2' x 4', 2,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) .....                          | 538.07                    | 65.50                   |
| Note: CCT 30K to 50K  |                           |                         |
| For Expanded Size Junction Box For Through Wiring, Add  | 5.34                      |                         |
| For Drywall Or Plaster Ceilings, Add  | 174.68                    |                         |
| For Surface Mount, Add  | 300.06                    |                         |
| For >50 To 100, Deduct  | -15.91                    |                         |
| For >100 To 250, Deduct   | -29.36                    |                         |
| For >250 To 500, Deduct   | -53.81                    |                         |
| For >500, Deduct  | -78.25                    |                         |

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 51 19 00-0065 | EA  |     | 2' x 4', 3,100 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™).....                                  | 555.90                 | 65.50                |
|                  |     |     | Note: CCT 30K to 50K   |                        |                      |
|                  |     |     | For Expanded Size Junction Box For Through Wiring, Add   | 5.34                   |                      |
|                  |     |     | For Drywall Or Plaster Ceilings, Add   | 174.68                 |                      |
|                  |     |     | For Surface Mount, Add   | 300.06                 |                      |
|                  |     |     | For >50 To 100, Deduct   | -16.36                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -30.25                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -55.59                 |                      |
|                  |     |     | For >500, Deduct   | -80.93                 |                      |
| 26 51 19 00-0066 | EA  |     | 2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™).....                                  | 555.90                 | 65.50                |
|                  |     |     | Note: CCT 30K to 50K   |                        |                      |
|                  |     |     | For Expanded Size Junction Box For Through Wiring, Add   | 5.34                   |                      |
|                  |     |     | For Drywall Or Plaster Ceilings, Add   | 174.68                 |                      |
|                  |     |     | For Surface Mount, Add   | 300.06                 |                      |
|                  |     |     | For >50 To 100, Deduct   | -16.36                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -30.25                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -55.59                 |                      |
|                  |     |     | For >500, Deduct   | -80.93                 |                      |
| 26 51 19 00-0067 | EA  |     | 2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24 LHE™).....                              | 706.58                 | 65.50                |
|                  |     |     | Note: CCT 30K to 50K   |                        |                      |
|                  |     |     | For Expanded Size Junction Box For Through Wiring, Add   | 5.34                   |                      |
|                  |     |     | For Drywall Or Plaster Ceilings, Add   | 174.68                 |                      |
|                  |     |     | For Surface Mount, Add   | 300.06                 |                      |
|                  |     |     | For >50 To 100, Deduct   | -20.12                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -37.79                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -70.66                 |                      |
|                  |     |     | For >500, Deduct   | -103.53                |                      |
| 26 51 19 00-0068 | EA  |     | 2' x 4', 5,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™).....                                  | 615.03                 | 65.50                |
|                  |     |     | Note: CCT 30K to 50K   |                        |                      |
|                  |     |     | For Expanded Size Junction Box For Through Wiring, Add   | 5.34                   |                      |
|                  |     |     | For Drywall Or Plaster Ceilings, Add   | 174.68                 |                      |
|                  |     |     | For Surface Mount, Add   | 300.06                 |                      |
|                  |     |     | For >50 To 100, Deduct   | -17.84                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -33.21                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -61.50                 |                      |
|                  |     |     | For >500, Deduct   | -89.79                 |                      |
| 26 51 19 00-0069 |     |     | <b>Architectural, Lay-In/Troffer LED Fixtures (Metalux®)</b> <small>(26 51 19 00-0052)</small>                                     |                        |                      |
|                  |     |     | Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors. |                        |                      |
| 26 51 19 00-0070 | EA  |     | 2' x 2', 2,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC).....                                       | 282.01                 | 56.22                |
|                  |     |     | For >50 To 100, Deduct   | -9.16                  |                      |
|                  |     |     | For >100 To 250, Deduct  | -16.21                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -28.20                 |                      |
|                  |     |     | For >500, Deduct   | -40.19                 |                      |
| 26 51 19 00-0071 | EA  |     | 2' x 4', 4,700 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC).....                                       | 370.66                 | 65.50                |
|                  |     |     | For >50 To 100, Deduct   | -11.73                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -20.99                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -37.07                 |                      |
|                  |     |     | For >500, Deduct   | -53.14                 |                      |
| 26 51 19 00-0072 |     |     | <b>Architectural, Lay-In/Troffer LED Fixtures (Finelite)</b> <small>(26 51 19 00-0052)</small>                                     |                        |                      |
|                  |     |     | Note: Includes 3,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.                    |                        |                      |
| 26 51 19 00-0073 | EA  |     | 2' x 2', 4,301 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2).....                                     | 411.71                 | 56.22                |
|                  |     |     | For >50 To 100, Deduct   | -12.40                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -22.69                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -41.17                 |                      |
|                  |     |     | For >500, Deduct   | -59.65                 |                      |
| 26 51 19 00-0074 | EA  |     | 2' x 4', 4,671 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2).....                                     | 555.15                 | 66.06                |
|                  |     |     | For >50 To 100, Deduct   | -16.34                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -30.22                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -55.52                 |                      |
|                  |     |     | For >500, Deduct   | -80.81                 |                      |
| 26 51 19 00-0075 |     |     | <b>Shadow Box Style, Lay-In/Troffer LED Fixtures</b> <small>(26 51 19 00-0020)</small>   |                        |                      |
| 26 51 19 00-0076 |     |     | <b>Shadow Box Style, Lay-In/Troffer LED Fixtures (Lithonia SBSL)</b> <small>(26 51 19 00-0075)</small>                             |                        |                      |
| 26 51 19 00-0077 | EA  |     | 2' x 2', 3,300 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL2).....   | 644.68                 | 56.22                |
|                  |     |     | For Drywall Or Plaster Ceilings, Add   | 37.95                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -18.23                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -34.34                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -64.47                 |                      |
|                  |     |     | For >500, Deduct   | -94.59                 |                      |
| 26 51 19 00-0078 | EA  |     | 2' x 4', 4,600 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL4).....   | 876.41                 | 65.50                |
|                  |     |     | For Drywall Or Plaster Ceilings With Frame Kit, Add  | 68.42                  |                      |
|                  |     |     | For >50 To 100, Deduct   | -24.37                 |                      |
|                  |     |     | For >100 To 250, Deduct  | -46.28                 |                      |
|                  |     |     | For >250 To 500, Deduct  | -87.64                 |                      |
|                  |     |     | For >500, Deduct   | -129.00                |                      |
| 26 51 19 00-0079 |     |     | <b>Panel Type, Lay-In/Troffer LED Fixtures</b> <small>(26 51 19 00-0020)</small>   |                        |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 51 19 00-0080 Panel Type, Lay-In/Troffer LED Fixtures (PlanLED Galaxy)</b> <small>(26 51 19 00-0079)</small>                                       |                           |                         |
| 26 51 19 00-0081 EA 1' x 4', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL140-34).....   | 447.92                    | 65.50                   |
| For >50 To 100, Deduct   | -13.66                    |                         |
| For >100 To 250, Deduct  | -24.86                    |                         |
| For >250 To 500, Deduct  | -44.79                    |                         |
| For >500, Deduct   | -64.73                    |                         |
| 26 51 19 00-0082 EA 2' x 2', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL220-34).....   | 464.66                    | 65.50                   |
| For >50 To 100, Deduct   | -14.08                    |                         |
| For >100 To 250, Deduct  | -25.69                    |                         |
| For >250 To 500, Deduct  | -46.47                    |                         |
| For >500, Deduct   | -67.24                    |                         |
| 26 51 19 00-0083 EA 2' x 4', 4,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-40).....   | 575.59                    | 65.50                   |
| For >50 To 100, Deduct   | -16.85                    |                         |
| For >100 To 250, Deduct  | -31.24                    |                         |
| For >250 To 500, Deduct  | -57.56                    |                         |
| For >500, Deduct   | -83.88                    |                         |
| 26 51 19 00-0084 EA 2' x 4', 5,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-52).....   | 575.59                    | 65.50                   |
| For >50 To 100, Deduct   | -16.85                    |                         |
| For >100 To 250, Deduct  | -31.24                    |                         |
| For >250 To 500, Deduct  | -57.56                    |                         |
| For >500, Deduct   | -83.88                    |                         |
| <b>26 51 19 00-0085 Panel Type, Lay-In/Troffer LED Fixtures (Sylvania)</b> <small>(26 51 19 00-0079)</small>   |                           |                         |
| 26 51 19 00-0086 EA 1' x 4', 3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/14G/WH).....                                       | 245.50                    | 65.50                   |
| For Surface Mounting Kit (Sylvania SMKIT1A/14A/WH), Add  | 54.95                     |                         |
| For >50 To 100, Deduct   | -8.60                     |                         |
| For >100 To 250, Deduct  | -14.73                    |                         |
| For >250 To 500, Deduct  | -24.55                    |                         |
| For >500, Deduct   | -34.37                    |                         |
| 26 51 19 00-0087 EA 2' x 2', 3,500 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/22G/WH).....                                       | 252.67                    | 65.50                   |
| For >50 To 100, Deduct   | -8.78                     |                         |
| For >100 To 250, Deduct  | -15.09                    |                         |
| For >250 To 500, Deduct  | -25.27                    |                         |
| For >500, Deduct   | -35.44                    |                         |
| 26 51 19 00-0088 EA 2' x 4', 3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/24G/WH).....                                       | 255.94                    | 65.50                   |
| For Surface Mounting Kit (Sylvania SMKIT1A/24A/WH)   | 68.69                     |                         |
| For >50 To 100, Deduct   | -8.86                     |                         |
| For >100 To 250, Deduct  | -15.26                    |                         |
| For >250 To 500, Deduct  | -25.59                    |                         |
| For >500, Deduct   | -35.93                    |                         |
| 26 51 19 00-0089 EA 2' x 4', 3,300 Lumens, 32 Watt, 3500K CCT, LED Edge Lite Panel With Kit (Sylvania<br>PANELF1A/032UNVD835/24G/WH_SMKIT1A/24A/WH)..... | 565.52                    | 65.50                   |
| For >50 To 100, Deduct   | -16.60                    |                         |
| For >100 To 250, Deduct  | -30.74                    |                         |
| For >250 To 500, Deduct  | -56.55                    |                         |
| For >500, Deduct   | -82.37                    |                         |
| <b>26 51 19 00-0090 Surface Mount LED Fixtures</b> <small>(26 51 19 00-0001)</small>   |                           |                         |
| <b>26 51 19 00-0091 Surface Mount, Volumetric LED Fixtures (Lithonia STL)</b> <small>(26 51 19 00-0090)</small>  |                           |                         |
| 26 51 19 00-0092 EA 2' Length, 2,200 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL2).....  | 334.60                    | 42.16                   |
| For >50 To 100, Deduct   | -9.95                     |                         |
| For >100 To 250, Deduct  | -18.31                    |                         |
| For >250 To 500, Deduct  | -33.46                    |                         |
| For >500, Deduct   | -48.61                    |                         |
| 26 51 19 00-0093 EA 4' Length, 3,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....  | 305.69                    | 51.44                   |
| For >50 To 100, Deduct   | -9.57                     |                         |
| For >100 To 250, Deduct  | -17.22                    |                         |
| For >250 To 500, Deduct  | -30.57                    |                         |
| For >500, Deduct   | -43.92                    |                         |
| 26 51 19 00-0094 EA 4' Length, 4,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....  | 342.16                    | 51.44                   |
| For >50 To 100, Deduct   | -10.49                    |                         |
| For >100 To 250, Deduct  | -19.04                    |                         |
| For >250 To 500, Deduct  | -34.22                    |                         |
| For >500, Deduct   | -49.39                    |                         |
| <b>26 51 19 00-0095 Surface Mount, Wraparound LED Fixtures (Lithonia LBL)</b> <small>(26 51 19 00-0090)</small>  |                           |                         |
| 26 51 19 00-0096 EA 2' Length, 2,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL2).....  | 284.42                    | 42.16                   |
| For >50 To 100, Deduct   | -8.69                     |                         |
| For >100 To 250, Deduct  | -15.80                    |                         |
| For >250 To 500, Deduct  | -28.44                    |                         |
| For >500, Deduct   | -41.08                    |                         |
| 26 51 19 00-0097 EA 4' Length, 4,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL4).....  | 372.59                    | 51.44                   |
| For >50 To 100, Deduct   | -11.25                    |                         |
| For >100 To 250, Deduct  | -20.56                    |                         |
| For >250 To 500, Deduct  | -37.26                    |                         |
| For >500, Deduct   | -53.96                    |                         |
| <b>26 51 19 00-0098 Surface Mount, Shadow Box Style LED Fixtures</b> <small>(26 51 19 00-0090)</small>   |                           |                         |

|              |                          |
|--------------|--------------------------|
| <b>26</b>    | <b>Electrical</b>        |
| <b>26 50</b> | <b>Lighting</b>          |
| <b>26 51</b> | <b>Interior Lighting</b> |



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 51 19 00-0099 |     |     | <b>Surface Mount, Shadow Box Style LED Fixtures (Lithonia SBSLX)</b> <small>(26 51 19 00-0098)</small>               |                        |                      |
| 26 51 19 00-0100 | EA  |     | 2' x 2', 3,300 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX2).....                           | 822.58                 | 56.22                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -22.67                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -43.24                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -82.26                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -121.28                |                      |
| 26 51 19 00-0101 | EA  |     | 2' x 4', 4,600 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX4).....                           | 1,054.31               | 65.50                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -28.82                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -55.18                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -105.43                |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -155.69                |                      |
| 26 51 19 00-0102 |     |     | <b>Surface Mount, Low Profile Fixtures</b> <small>(26 51 19 00-0090)</small>   |                        |                      |
| 26 51 19 00-0103 | EA  |     | 6" Diameter, 993 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8538-90) .....                        | 122.38                 | 38.51                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.98                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -8.04                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -12.24                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -16.43                 |                      |
| 26 51 19 00-0104 | EA  |     | 6" Diameter, 1,215 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8569).....                          | 102.68                 | 38.51                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.49                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.06                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.27                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -13.48                 |                      |
| 26 51 19 00-0105 | EA  |     | 13" Diameter, 1,400 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 4329).....                         | 163.73                 | 38.51                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -6.02                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -10.11                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -16.37                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -22.63                 |                      |
| 26 51 19 00-0106 | EA  |     | 15" Diameter, 2,100 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting 4330).....                           | 195.25                 | 38.51                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -6.81                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -11.69                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -19.53                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -27.36                 |                      |
| 26 51 19 00-0107 |     |     | <b>Recessed LED Downlights</b> <small>(26 51 19 00-0001)</small>   |                        |                      |
| 26 51 19 00-0108 |     |     | <b>Recessed LED Downlights</b> <small>(26 51 19 00-0107)</small>   |                        |                      |
| 26 51 19 00-0109 |     |     | <b>Recessed LED Downlights (Lithonia)</b> <small>(26 51 19 00-0108)</small>  |                        |                      |
|                  |     |     | Note: Includes housing and trim.   |                        |                      |
| 26 51 19 00-0110 | EA  |     | 8" Diameter, 1,200 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....                            | 388.92                 | 67.68                |
|                  |     |     | <i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i>  | 78.01                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -12.26                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -21.98                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -38.89                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -55.80                 |                      |
| 26 51 19 00-0111 | EA  |     | 8" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....                            | 419.77                 | 67.68                |
|                  |     |     | <i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i>  | 78.01                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -13.03                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -23.53                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -41.98                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -60.43                 |                      |
| 26 51 19 00-0112 |     |     | <b>Recessed LED Downlights (Portfolio®)</b> <small>(26 51 19 00-0108)</small>  |                        |                      |
|                  |     |     | Note: Includes housing and trim.   |                        |                      |
| 26 51 19 00-0113 | EA  |     | 4" Diameter, 1,300 Lumens, Recessed LED Downlight With Open Trim (Portfolio® LD413).....                             | 257.71                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.98                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -15.42                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -25.77                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -36.12                 |                      |
| 26 51 19 00-0114 |     |     | <b>Recessed LED Downlights (Gotham® EVO®)</b> <small>(26 51 19 00-0108)</small>                                      |                        |                      |
|                  |     |     | Note: Includes housing and trim.   |                        |                      |
| 26 51 19 00-0115 | EA  |     | 6" Diameter, 1,800 Lumens, Recessed LED Downlight With Open Trim (Gotham® EVO® ALED) .....                           | 306.51                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.20                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -17.86                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -30.65                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -43.44                 |                      |
| 26 51 19 00-0116 | EA  |     | 6" Diameter, 1,800 Lumens, Recessed LED Shower Downlight With Non-Conductive Regressed Lens (Gotham® EVO® ALED)..... | 315.18                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.42                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -18.30                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -31.52                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -44.74                 |                      |
| 26 51 19 00-0117 | EA  |     | 6" Diameter, 1,800 Lumens, Recessed LED Wallwash Downlight With Specular Reflector Trim (Gotham® EVO® DLWLLED) ..... | 350.74                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -11.31                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -20.08                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -35.07                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -50.07                 |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0118 EA 6" Diameter, 1,800 Lumens, Decorative Recessed LED Downlight With Glass Drop Luminous Ring (Gotham® EVO® ALED).....         | 354.22                    | 67.68                   |
| For >50 To 100, Deduct  | -11.39                    |                         |
| For >100 To 250, Deduct   | -20.25                    |                         |
| For >250 To 500, Deduct   | -35.42                    |                         |
| For >500, Deduct  | -50.59                    |                         |
| 26 51 19 00-0119 EA 6" Diameter, 1,800 Lumens, Vandal Resistant, Recessed LED Downlight With Tempered Prismatic Lens (Gotham® EVO® VRALED)..... | 384.57                    | 67.68                   |
| For >50 To 100, Deduct  | -12.15                    |                         |
| For >100 To 250, Deduct   | -21.77                    |                         |
| For >250 To 500, Deduct   | -38.46                    |                         |
| For >500, Deduct  | -55.15                    |                         |
| <b>26 51 19 00-0120 Recessed LED Downlights (Lightolier) (26 51 19 00-0108)</b>   |                           |                         |
| Note: Includes housing and trim.  |                           |                         |
| 26 51 19 00-0121 EA 4" Diameter, 500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L05DL).....                                    | 622.69                    | 67.68                   |
| For >50 To 100, Deduct  | -18.11                    |                         |
| For >100 To 250, Deduct   | -33.67                    |                         |
| For >250 To 500, Deduct   | -62.27                    |                         |
| For >500, Deduct  | -90.87                    |                         |
| 26 51 19 00-0122 EA 4" Diameter, 1,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L10DL).....                                  | 727.19                    | 67.68                   |
| For >50 To 100, Deduct  | -20.72                    |                         |
| For >100 To 250, Deduct   | -38.90                    |                         |
| For >250 To 500, Deduct   | -72.72                    |                         |
| For >500, Deduct  | -106.54                   |                         |
| 26 51 19 00-0123 EA 6" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....                                | 779.33                    | 67.68                   |
| For >50 To 100, Deduct  | -22.02                    |                         |
| For >100 To 250, Deduct   | -41.50                    |                         |
| For >250 To 500, Deduct   | -77.93                    |                         |
| For >500, Deduct  | -114.36                   |                         |
| 26 51 19 00-0124 EA 6" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....                                | 779.33                    | 67.68                   |
| For >50 To 100, Deduct  | -22.02                    |                         |
| For >100 To 250, Deduct   | -41.50                    |                         |
| For >250 To 500, Deduct   | -77.93                    |                         |
| For >500, Deduct  | -114.36                   |                         |
| 26 51 19 00-0125 EA 7" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....                                | 805.51                    | 67.68                   |
| For >50 To 100, Deduct  | -22.68                    |                         |
| For >100 To 250, Deduct   | -42.81                    |                         |
| For >250 To 500, Deduct   | -80.55                    |                         |
| For >500, Deduct  | -118.29                   |                         |
| 26 51 19 00-0126 EA 7" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....                                | 831.71                    | 67.68                   |
| For >50 To 100, Deduct  | -23.33                    |                         |
| For >100 To 250, Deduct   | -44.12                    |                         |
| For >250 To 500, Deduct   | -83.17                    |                         |
| For >500, Deduct  | -122.22                   |                         |
| <b>26 51 19 00-0127 Recessed LED Downlights (Cooper) (26 51 19 00-0108)</b>   |                           |                         |
| 26 51 19 00-0128 EA 600 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5606827).....   | 171.76                    | 67.68                   |
| For >50 To 100, Deduct  | -6.83                     |                         |
| For >100 To 250, Deduct   | -11.13                    |                         |
| For >250 To 500, Deduct   | -17.18                    |                         |
| For >500, Deduct  | -23.23                    |                         |
| 26 51 19 00-0129 EA 600 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5606830).....   | 171.76                    | 67.68                   |
| For >50 To 100, Deduct  | -6.83                     |                         |
| For >100 To 250, Deduct   | -11.13                    |                         |
| For >250 To 500, Deduct   | -17.18                    |                         |
| For >500, Deduct  | -23.23                    |                         |
| 26 51 19 00-0130 EA 600 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5606835).....   | 171.76                    | 67.68                   |
| For >50 To 100, Deduct  | -6.83                     |                         |
| For >100 To 250, Deduct   | -11.13                    |                         |
| For >250 To 500, Deduct   | -17.18                    |                         |
| For >500, Deduct  | -23.23                    |                         |
| 26 51 19 00-0131 EA 600 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5606840).....   | 171.76                    | 67.68                   |
| For >50 To 100, Deduct  | -6.83                     |                         |
| For >100 To 250, Deduct   | -11.13                    |                         |
| For >250 To 500, Deduct   | -17.18                    |                         |
| For >500, Deduct  | -23.23                    |                         |
| 26 51 19 00-0132 EA 900 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5609827).....   | 174.37                    | 67.68                   |
| For >50 To 100, Deduct  | -6.90                     |                         |
| For >100 To 250, Deduct   | -11.26                    |                         |
| For >250 To 500, Deduct   | -17.44                    |                         |
| For >500, Deduct  | -23.62                    |                         |
| 26 51 19 00-0133 EA 900 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5609830).....   | 174.37                    | 67.68                   |
| For >50 To 100, Deduct  | -6.90                     |                         |
| For >100 To 250, Deduct   | -11.26                    |                         |
| For >250 To 500, Deduct   | -17.44                    |                         |
| For >500, Deduct  | -23.62                    |                         |
| 26 51 19 00-0134 EA 900 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5609835).....   | 174.37                    | 67.68                   |
| For >50 To 100, Deduct  | -6.90                     |                         |
| For >100 To 250, Deduct   | -11.26                    |                         |
| For >250 To 500, Deduct   | -17.44                    |                         |
| For >500, Deduct  | -23.62                    |                         |



**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0135 EA 900 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5609840) .....  | 174.37                    | 67.68                   |
| For>50 To 100, Deduct   | -6.90                     |                         |
| For>100 To 250, Deduct  | -11.26                    |                         |
| For>250 To 500, Deduct  | -17.44                    |                         |
| For>500, Deduct   | -23.62                    |                         |
| 26 51 19 00-0136 EA 1,200 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5612827) .....  | 209.84                    | 67.68                   |
| For>50 To 100, Deduct   | -7.78                     |                         |
| For>100 To 250, Deduct  | -13.03                    |                         |
| For>250 To 500, Deduct  | -20.98                    |                         |
| For>500, Deduct   | -28.94                    |                         |
| 26 51 19 00-0137 EA 1,200 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5612830) .....  | 208.04                    | 67.68                   |
| For>50 To 100, Deduct   | -7.74                     |                         |
| For>100 To 250, Deduct  | -12.94                    |                         |
| For>250 To 500, Deduct  | -20.80                    |                         |
| For>500, Deduct   | -28.67                    |                         |
| 26 51 19 00-0138 EA 1,200 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5612835) .....  | 208.04                    | 67.68                   |
| For>50 To 100, Deduct   | -7.74                     |                         |
| For>100 To 250, Deduct  | -12.94                    |                         |
| For>250 To 500, Deduct  | -20.80                    |                         |
| For>500, Deduct   | -28.67                    |                         |
| 26 51 19 00-0139 EA 1,200 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5612840) .....  | 208.04                    | 67.68                   |
| For>50 To 100, Deduct   | -7.74                     |                         |
| For>100 To 250, Deduct  | -12.94                    |                         |
| For>250 To 500, Deduct  | -20.80                    |                         |
| For>500, Deduct   | -28.67                    |                         |
| 26 51 19 00-0140 EA 5" LED Trim, Polymer Dead-Front, Shallow White Baffle And Flange (Cooper Halo 591WB) .....                                  | 95.41                     | 21.54                   |
| For>50 To 100, Deduct   | -3.19                     |                         |
| For>100 To 250, Deduct  | -5.58                     |                         |
| For>250 To 500, Deduct  | -9.54                     |                         |
| For>500, Deduct   | -13.50                    |                         |
| 26 51 19 00-0141 EA 5" LED Trim, Specular Reflector And White Flange (Cooper Halo 592SC) .....  | 62.95                     | 21.54                   |
| For>50 To 100, Deduct   | -2.38                     |                         |
| For>100 To 250, Deduct  | -3.96                     |                         |
| For>250 To 500, Deduct  | -6.30                     |                         |
| For>500, Deduct   | -8.63                     |                         |
| 26 51 19 00-0142 EA 5" LED Trim, Haze Reflector And White Flange (Cooper Halo 592H) .....   | 76.92                     | 21.54                   |
| For>50 To 100, Deduct   | -2.73                     |                         |
| For>100 To 250, Deduct  | -4.65                     |                         |
| For>250 To 500, Deduct  | -7.69                     |                         |
| For>500, Deduct   | -10.73                    |                         |
| 26 51 19 00-0143 EA 5" LED Trim, White Reflector And Flange (Cooper Halo 592W) .....  | 65.76                     | 21.54                   |
| For>50 To 100, Deduct   | -2.45                     |                         |
| For>100 To 250, Deduct  | -4.10                     |                         |
| For>250 To 500, Deduct  | -6.58                     |                         |
| For>500, Deduct   | -9.06                     |                         |
| 26 51 19 00-0144 EA 5" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 593WB) .....   | 54.35                     | 21.54                   |
| For>50 To 100, Deduct   | -2.17                     |                         |
| For>100 To 250, Deduct  | -3.53                     |                         |
| For>250 To 500, Deduct  | -5.44                     |                         |
| For>500, Deduct   | -7.34                     |                         |
| 26 51 19 00-0145 EA 5" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 593BB) .....   | 65.26                     | 21.54                   |
| For>50 To 100, Deduct   | -2.44                     |                         |
| For>100 To 250, Deduct  | -4.07                     |                         |
| For>250 To 500, Deduct  | -6.53                     |                         |
| For>500, Deduct   | -8.98                     |                         |
| 26 51 19 00-0146 EA 5" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 593SNB) .....   | 71.91                     | 21.54                   |
| For>50 To 100, Deduct   | -2.61                     |                         |
| For>100 To 250, Deduct  | -4.40                     |                         |
| For>250 To 500, Deduct  | -7.19                     |                         |
| For>500, Deduct   | -9.98                     |                         |
| 26 51 19 00-0147 EA 5" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 593TBZB) .....   | 77.83                     | 21.54                   |
| For>50 To 100, Deduct   | -2.75                     |                         |
| For>100 To 250, Deduct  | -4.70                     |                         |
| For>250 To 500, Deduct  | -7.78                     |                         |
| For>500, Deduct   | -10.87                    |                         |
| 26 51 19 00-0148 EA 5" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 594WB) .....   | 89.39                     | 21.54                   |
| For>50 To 100, Deduct   | -3.04                     |                         |
| For>100 To 250, Deduct  | -5.28                     |                         |
| For>250 To 500, Deduct  | -8.94                     |                         |
| For>500, Deduct   | -12.60                    |                         |
| 26 51 19 00-0149 EA 5" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 594SNB) .....                                 | 89.77                     | 21.54                   |
| For>50 To 100, Deduct   | -3.05                     |                         |
| For>100 To 250, Deduct  | -5.30                     |                         |
| For>250 To 500, Deduct  | -8.98                     |                         |
| For>500, Deduct   | -12.66                    |                         |
| 26 51 19 00-0150 EA 5" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 594TBZB) .....                               | 88.11                     | 21.54                   |
| For>50 To 100, Deduct   | -3.01                     |                         |
| For>100 To 250, Deduct  | -5.21                     |                         |
| For>250 To 500, Deduct  | -8.81                     |                         |
| For>500, Deduct   | -12.41                    |                         |
| 26 51 19 00-0151 EA 5" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 595WW) ..... | 107.08                    | 21.54                   |
| For>50 To 100, Deduct   | -3.48                     |                         |
| For>100 To 250, Deduct  | -6.16                     |                         |
| For>250 To 500, Deduct  | -10.71                    |                         |
| For>500, Deduct   | -15.25                    |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 26 51 | 19 00-0152 | EA  | 5" LED Trim, White Shallow Baffle And Flange (Cooper Halo 596WB) .....  | 54.76                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.18                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -3.55                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -5.48                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -7.41                  |                      |
| 26 51 | 19 00-0153 | EA  | 6" LED Trim, Polymer Dead-Front, White Shallow Baffle And Flange (Cooper Halo 691WB) .....                                  | 92.63                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.12                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.44                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -9.26                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -13.09                 |                      |
| 26 51 | 19 00-0154 | EA  | 6" LED Trim, Specular Reflector And White Flange (Cooper Halo 692SC) .....  | 79.86                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.80                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.80                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -7.99                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -11.17                 |                      |
| 26 51 | 19 00-0155 | EA  | 6" LED Trim, Haze Reflector And White Flange (Cooper Halo 692H) .....   | 75.38                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.69                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.58                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -7.54                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.50                 |                      |
| 26 51 | 19 00-0156 | EA  | 6" LED Trim, White Reflector And Flange (Cooper Halo 692W) .....  | 67.99                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.51                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.21                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -6.80                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -9.39                  |                      |
| 26 51 | 19 00-0157 | EA  | 6" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 693WB) .....   | 68.53                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.52                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.23                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -6.85                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -9.47                  |                      |
| 26 51 | 19 00-0158 | EA  | 6" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 693BB) .....   | 73.27                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.64                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.47                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -7.33                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.18                 |                      |
| 26 51 | 19 00-0159 | EA  | 6" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 693SNB) .....   | 67.70                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.50                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.19                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -6.77                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -9.35                  |                      |
| 26 51 | 19 00-0160 | EA  | 6" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 693TBZB) .....   | 82.82                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.88                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.95                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.28                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -11.62                 |                      |
| 26 51 | 19 00-0161 | EA  | 6" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 694WB) .....   | 89.20                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.04                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.27                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.92                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -12.57                 |                      |
| 26 51 | 19 00-0162 | EA  | 6" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 694SNB) .....                                 | 110.40                 | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.57                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.33                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -11.04                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -15.75                 |                      |
| 26 51 | 19 00-0163 | EA  | 6" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 694TBZB) .....                               | 107.74                 | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.50                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.19                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.77                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -15.35                 |                      |
| 26 51 | 19 00-0164 | EA  | 6" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 695WW) ..... | 108.91                 | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.53                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.25                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.89                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -15.53                 |                      |
| 26 51 | 19 00-0165 | EA  | 6" LED Trim, White Shallow Baffle And Flange (Cooper Halo 696WB) .....  | 69.17                  | 21.54                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -2.54                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -4.27                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -6.92                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -9.57                  |                      |
| 26 51 | 19 00-0166 | EA  | 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H750ICAT) .....                                  | 74.92                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.60                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.48                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -7.49                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -9.51                  |                      |
| 26 51 | 19 00-0167 | EA  | 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H750RICAT) .....  | 80.11                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.73                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.74                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.01                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.29                 |                      |
| 26 51 | 19 00-0168 | EA  | 6" LED, Non-IC, Air-Tite, New Construction Housing (Cooper Halo H750T) .....  | 78.03                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.68                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.63                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -7.80                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -9.97                  |                      |

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 26 51 | 19 00-0169 | EA  | 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing (Cooper Halo H750TCP) .....             | 98.49                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.19                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.66                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -9.85                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -13.04                 |                      |
| 26 51 | 19 00-0170 | EA  | 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Constr. (Cooper Halo H2750ICAT) .....                 | 96.09                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.13                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.54                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -9.61                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -12.68                 |                      |
| 26 51 | 19 00-0171 | EA  | 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H7ICAT) .....                      | 80.82                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.75                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.77                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.08                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.39                 |                      |
| 26 51 | 19 00-0172 | EA  | 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H7RICAT) .....                              | 84.32                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.84                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.95                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.43                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.92                 |                      |
| 26 51 | 19 00-0173 | EA  | 6" Insulated Ceiling, New Construction Housing (Cooper Halo H7ICT) .....                                | 80.09                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.73                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.74                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.01                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.28                 |                      |
| 26 51 | 19 00-0174 | EA  | 6" Insulated Ceiling, Remodel Housing (Cooper Halo H7RICT) .....  | 83.92                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.83                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.93                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.39                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.86                 |                      |
| 26 51 | 19 00-0175 | EA  | 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo H7ICATNB) ..... | 80.73                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.75                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.77                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.07                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.38                 |                      |
| 26 51 | 19 00-0176 | EA  | 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo H7ICTNB) .....           | 80.37                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.74                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.75                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.04                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.33                 |                      |
| 26 51 | 19 00-0177 | EA  | 6" Non-IC, New Construction Housing (Cooper Halo H7T) .....   | 83.13                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.81                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.89                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.31                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.74                 |                      |
| 26 51 | 19 00-0178 | EA  | 6" Non-IC, Remodel Housing (Cooper Halo H7RT) .....   | 84.63                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.85                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.96                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.46                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -10.96                 |                      |
| 26 51 | 19 00-0179 | EA  | 6" Non-IC, New Construction Housing, No Socket Bracket (Cooper Halo H7TNB) .....                        | 85.11                  | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -3.86                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -5.99                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -8.51                  |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -11.04                 |                      |
| 26 51 | 19 00-0180 | EA  | 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing (Cooper Halo H7TCP) .....                   | 108.28                 | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.44                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -7.14                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.83                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -14.51                 |                      |
| 26 51 | 19 00-0181 | EA  | 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo H7UICAT) .....                    | 102.47                 | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.29                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.85                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.25                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -13.64                 |                      |
| 26 51 | 19 00-0182 | EA  | 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo H7UICAT) .....         | 103.14                 | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.31                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -6.89                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.31                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -13.74                 |                      |
| 26 51 | 19 00-0183 | EA  | 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI700AT) .....                     | 107.03                 | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.41                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -7.08                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.70                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -14.32                 |                      |
| 26 51 | 19 00-0184 | EA  | 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI700RAT) .....                             | 107.03                 | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.41                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -7.08                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.70                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -14.32                 |                      |
| 26 51 | 19 00-0185 | EA  | 6" Insulated Ceiling, New Construction Housing (Cooper Halo EI700) .....                                | 107.03                 | 46.15                |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -4.41                  |                      |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -7.08                  |                      |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -10.70                 |                      |
|       |            |     | <i>For &gt;500, Deduct</i>  | -14.32                 |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 51 19 00-0186 | EA  |     | 6" Insulated Ceiling, Remodel Housing (Cooper Halo EI700R) .....   | 107.03                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.41                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.08                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.70                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -14.32                 |                      |
| 26 51 19 00-0187 | EA  |     | 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo EI700ATNB) ..... | 107.03                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.41                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.08                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.70                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -14.32                 |                      |
| 26 51 19 00-0188 | EA  |     | 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo EI700NB) .....            | 96.86                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.15                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.57                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.80                 |                      |
| 26 51 19 00-0189 | EA  |     | 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo EI700U) .....                      | 96.86                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.15                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.57                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.80                 |                      |
| 26 51 19 00-0190 | EA  |     | 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo EI700UAT) .....         | 96.86                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.15                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.57                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.80                 |                      |
| 26 51 19 00-0191 | EA  |     | 6" Non-IC, New Construction Housing (Cooper Halo ET700).....   | 96.86                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.15                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.57                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.80                 |                      |
| 26 51 19 00-0192 | EA  |     | 6" Non-IC, Remodel Housing (Cooper Halo ET700R) .....  | 96.86                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.15                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.57                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.69                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.80                 |                      |
| 26 51 19 00-0193 | EA  |     | 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H27ICAT).....                      | 97.60                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.17                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.61                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.76                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.91                 |                      |
| 26 51 19 00-0194 | EA  |     | 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H27RICAT).....                      | 109.03                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.46                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.18                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.90                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -14.62                 |                      |
| 26 51 19 00-0195 | EA  |     | 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo H27ICT) .....                       | 97.60                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.17                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.61                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.76                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.91                 |                      |
| 26 51 19 00-0196 | EA  |     | 6" Shallow, Insulated Ceiling, Remodel Housing (Cooper Halo H27RICT).....                                | 105.80                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.38                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.02                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.58                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -14.14                 |                      |
| 26 51 19 00-0197 | EA  |     | 6" Shallow, Non-IC, New Construction Housing (Cooper Halo H27T) .....                                    | 92.97                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.05                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.38                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.30                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.22                 |                      |
| 26 51 19 00-0198 | EA  |     | 6" Shallow, Non-IC, Remodel Housing (Cooper Halo H27RT) .....  | 94.09                  | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.08                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.44                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -9.41                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -12.38                 |                      |
| 26 51 19 00-0199 | EA  |     | 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo EI2700AT) .....                    | 102.08                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.28                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.83                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.21                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -13.58                 |                      |
| 26 51 19 00-0200 | EA  |     | 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo EI2700) .....                       | 102.08                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.28                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.83                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.21                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -13.58                 |                      |
| 26 51 19 00-0201 | EA  |     | 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI2700R).....                       | 102.08                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.28                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.83                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.21                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -13.58                 |                      |
| 26 51 19 00-0202 | EA  |     | 6" Shallow, Non-IC, New Construction Housing (Cooper Halo ET2700) .....                                  | 102.08                 | 46.15                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.28                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.83                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.21                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -13.58                 |                      |

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0203 EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo ET2700R).....                            | 102.08                    | 46.15                   |
| For>50 To 100, Deduct   | -4.28                     |                         |
| For>100 To 250, Deduct  | -6.83                     |                         |
| For>250 To 500, Deduct  | -10.21                    |                         |
| For>500, Deduct   | -13.58                    |                         |
| 26 51 19 00-0204 EA 6" Retrofit Enclosure, Non-IC, BX Whip (Cooper Halo ML7BXRFK).....                        | 79.60                     | 21.54                   |
| For>50 To 100, Deduct   | -2.75                     |                         |
| For>100 To 250, Deduct  | -4.69                     |                         |
| For>250 To 500, Deduct  | -7.76                     |                         |
| For>500, Deduct   | -10.83                    |                         |
| 26 51 19 00-0205 EA 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface (Cooper Halo ML7E26RFK).....      | 79.92                     | 21.54                   |
| For>50 To 100, Deduct   | -2.81                     |                         |
| For>100 To 250, Deduct  | -4.80                     |                         |
| For>250 To 500, Deduct  | -7.99                     |                         |
| For>500, Deduct   | -11.18                    |                         |
| 26 51 19 00-0206 EA 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H550ICAT)..... | 87.92                     | 46.15                   |
| For>50 To 100, Deduct   | -3.93                     |                         |
| For>100 To 250, Deduct  | -6.13                     |                         |
| For>250 To 500, Deduct  | -8.79                     |                         |
| For>500, Deduct   | -11.46                    |                         |
| 26 51 19 00-0207 EA 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H550RICAT).....         | 88.19                     | 46.15                   |
| For>50 To 100, Deduct   | -3.94                     |                         |
| For>100 To 250, Deduct  | -6.14                     |                         |
| For>250 To 500, Deduct  | -8.82                     |                         |
| For>500, Deduct   | -11.50                    |                         |
| 26 51 19 00-0208 EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H5ICAT).....         | 83.38                     | 46.15                   |
| For>50 To 100, Deduct   | -3.82                     |                         |
| For>100 To 250, Deduct  | -5.90                     |                         |
| For>250 To 500, Deduct  | -8.34                     |                         |
| For>500, Deduct   | -10.78                    |                         |
| 26 51 19 00-0209 EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H5RICAT).....                 | 85.74                     | 46.15                   |
| For>50 To 100, Deduct   | -3.87                     |                         |
| For>100 To 250, Deduct  | -6.02                     |                         |
| For>250 To 500, Deduct  | -8.57                     |                         |
| For>500, Deduct   | -11.13                    |                         |
| 26 51 19 00-0210 EA 5" Non-IC, New Construction Housing (Cooper Halo H5T).....                                | 84.97                     | 46.15                   |
| For>50 To 100, Deduct   | -3.85                     |                         |
| For>100 To 250, Deduct  | -5.98                     |                         |
| For>250 To 500, Deduct  | -8.50                     |                         |
| For>500, Deduct   | -11.02                    |                         |
| 26 51 19 00-0211 EA 5" Non-IC, Remodel Housing (Cooper Halo H5RT).....  | 85.69                     | 46.15                   |
| For>50 To 100, Deduct   | -3.87                     |                         |
| For>100 To 250, Deduct  | -6.02                     |                         |
| For>250 To 500, Deduct  | -8.57                     |                         |
| For>500, Deduct   | -11.12                    |                         |
| 26 51 19 00-0212 EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI500AT).....        | 95.85                     | 46.15                   |
| For>50 To 100, Deduct   | -4.13                     |                         |
| For>100 To 250, Deduct  | -6.52                     |                         |
| For>250 To 500, Deduct  | -9.59                     |                         |
| For>500, Deduct   | -12.65                    |                         |
| 26 51 19 00-0213 EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI500RAT).....                | 96.39                     | 46.15                   |
| For>50 To 100, Deduct   | -4.14                     |                         |
| For>100 To 250, Deduct  | -6.55                     |                         |
| For>250 To 500, Deduct  | -9.64                     |                         |
| For>500, Deduct   | -12.73                    |                         |
| 26 51 19 00-0214 EA 5" Non-IC, New Construction Housing (Cooper Halo ET500).....                              | 99.12                     | 46.15                   |
| For>50 To 100, Deduct   | -4.21                     |                         |
| For>100 To 250, Deduct  | -6.69                     |                         |
| For>250 To 500, Deduct  | -9.91                     |                         |
| For>500, Deduct   | -13.14                    |                         |
| 26 51 19 00-0215 EA 5" Non-IC, Remodel Housing (Cooper Halo ET500R).....                                      | 101.04                    | 46.15                   |
| For>50 To 100, Deduct   | -4.26                     |                         |
| For>100 To 250, Deduct  | -6.78                     |                         |
| For>250 To 500, Deduct  | -10.10                    |                         |
| For>500, Deduct   | -13.43                    |                         |
| 26 51 19 00-0216 EA 5" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H25ICAT).....       | 109.44                    | 46.15                   |
| For>50 To 100, Deduct   | -4.47                     |                         |
| For>100 To 250, Deduct  | -7.20                     |                         |
| For>250 To 500, Deduct  | -10.94                    |                         |
| For>500, Deduct   | -14.69                    |                         |
| <b>26 51 19 00-0217 Recessed LED Downlights (Maxlite DLR) <small>(26 51 19 00-0108)</small></b>               |                           |                         |
| 26 51 19 00-0218 EA 4" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR410).....          | 196.49                    | 67.68                   |
| For>50 To 100, Deduct   | -7.45                     |                         |
| For>100 To 250, Deduct  | -12.36                    |                         |
| For>250 To 500, Deduct  | -19.65                    |                         |
| For>500, Deduct   | -26.94                    |                         |
| 26 51 19 00-0219 EA 4" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR415).....          | 198.92                    | 67.68                   |
| For>50 To 100, Deduct   | -7.51                     |                         |
| For>100 To 250, Deduct  | -12.48                    |                         |
| For>250 To 500, Deduct  | -19.89                    |                         |
| For>500, Deduct   | -27.30                    |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 51 19 00-0220 | EA  |     | 4" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR420) .....  | 206.23                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.69                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.85                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -20.62                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -28.40                 |                      |
| 26 51 19 00-0221 | EA  |     | 6" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR615) .....  | 191.61                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.33                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.12                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -19.16                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -26.20                 |                      |
| 26 51 19 00-0222 | EA  |     | 6" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR620) .....  | 191.61                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.33                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.12                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -19.16                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -26.20                 |                      |
| 26 51 19 00-0223 | EA  |     | 6" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR630) .....  | 191.61                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.33                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.12                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -19.16                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -26.20                 |                      |
| 26 51 19 00-0224 | EA  |     | 8" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR810) .....  | 206.23                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.69                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.85                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -20.62                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -28.40                 |                      |
| 26 51 19 00-0225 | EA  |     | 8" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR815) .....  | 208.66                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.75                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -12.97                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -20.87                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -28.76                 |                      |
| 26 51 19 00-0226 | EA  |     | 8" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR820) .....  | 213.52                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -7.88                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -13.21                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -21.35                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -29.49                 |                      |
| 26 51 19 00-0227 | EA  |     | 8" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR830) .....  | 228.13                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.24                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -13.94                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -22.81                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -31.68                 |                      |
| 26 51 19 00-0228 | EA  |     | 8" Diameter, 5,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR850) .....  | 247.62                 | 67.68                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.73                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -14.92                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -24.76                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -34.60                 |                      |
| 26 51 19 00-0229 |     |     | <b>Recessed LED Downlight Retrofits And Trim (CREE®)</b> <small>(26 51 19 00-0107)</small>   |                        |                      |
| 26 51 19 00-0230 |     |     | <b>Recessed LED Downlight Retrofits (CREE®)</b> <small>(26 51 19 00-0229)</small>  |                        |                      |
|                  |     |     | Note: Dimmable to 5%. For installation in standard recessed IC or non-IC housings. Includes removal of existing lamp from fixture. Excludes housing and disposal of hazardous lamps. |                        |                      |
| 26 51 19 00-0231 | EA  |     | 4" Diameter, 575 Lumens, Recessed LED Downlight Retrofit (Cree® CR4-575L) .....  | 121.49                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.00                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.04                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -12.15                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -17.26                 |                      |
| 26 51 19 00-0232 | EA  |     | 6" Diameter, 625 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-625L) .....  | 108.02                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -3.66                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -6.36                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -10.80                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -15.24                 |                      |
| 26 51 19 00-0233 | EA  |     | 6" Diameter, 800 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-800L) .....  | 134.95                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.34                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -7.71                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -13.50                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -19.28                 |                      |
| 26 51 19 00-0234 | EA  |     | 6" Diameter, 650 Lumens, Recessed LED Downlight Retrofit (Cree® LR6C-277) .....  | 150.65                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -4.73                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -8.49                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -15.07                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -21.64                 |                      |
| 26 51 19 00-0235 | EA  |     | 6" Diameter, 1,000 Lumens, Deep Recessed LED Downlight Retrofit (Cree® LR6-10L-XXX-120V-A-DR) .....  | 164.11                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -5.06                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -9.17                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -16.41                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -23.66                 |                      |
| 26 51 19 00-0236 |     |     | <b>Recessed LED Downlight Retrofits Trim (CREE®)</b> <small>(26 51 19 00-0229)</small>   |                        |                      |
| 26 51 19 00-0237 | EA  |     | 6" Diameter, Diffuse Anodized Finish Reflector For LED Downlight Retrofits (Cree® CT6AX) .....   | 45.50                  | 10.77                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -1.71                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -2.85                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -4.55                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>   | -6.25                  |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0238 EA 6" Diameter, Diffuse Anodized Finish Reflector With Painted Flange For LED Downlight Retrofits (Cree® LT6AP)..... | 54.48                     | 10.77                   |
| For>50 To 100, Deduct   | -1.94                     |                         |
| For>100 To 250, Deduct  | -3.30                     |                         |
| For>250 To 500, Deduct  | -5.45                     |                         |
| For>500, Deduct   | -7.60                     |                         |
| 26 51 19 00-0239 EA 6" Diameter, Flat Black Finish Trim And Reflector For LED Downlight Retrofits (Cree® CT6BB) .....                 | 47.75                     | 10.77                   |
| For>50 To 100, Deduct   | -1.77                     |                         |
| For>100 To 250, Deduct  | -2.96                     |                         |
| For>250 To 500, Deduct  | -4.78                     |                         |
| For>500, Deduct   | -6.59                     |                         |
| <b>26 51 19 00-0240 Recessed LED Downlight Fixture Housings (CREE®) (26 51 19 00-0229)</b>  |                           |                         |
| Note: Excludes lamp and trim.   |                           |                         |
| 26 51 19 00-0241 EA 6" Diameter, IC Rated, Architectural Recessed LED Downlight Fixture Housing (Cree® H6) .....                      | 123.08                    | 46.15                   |
| For>50 To 100, Deduct   | -4.81                     |                         |
| For>100 To 250, Deduct  | -7.88                     |                         |
| For>250 To 500, Deduct  | -12.31                    |                         |
| For>500, Deduct   | -16.73                    |                         |
| 26 51 19 00-0242 EA 6" Diameter, IC Rated, Retrofit Recessed LED Downlight Fixture Housing (Cree® RR6) .....                          | 91.65                     | 46.15                   |
| For>50 To 100, Deduct   | -4.02                     |                         |
| For>100 To 250, Deduct  | -6.31                     |                         |
| For>250 To 500, Deduct  | -9.17                     |                         |
| For>500, Deduct   | -12.02                    |                         |
| <b>26 51 19 00-0243 Can Retrofit Or Surface Mount, LED Downlights (26 51 19 00-0107)</b>  |                           |                         |
| 26 51 19 00-0244 EA 6" Diameter, 15 Watt, Can Retrofit Or Surface Mount, LED Downlight (Lighting Science® GLP6) .....                 | 109.64                    | 42.16                   |
| For>50 To 100, Deduct   | -4.32                     |                         |
| For>100 To 250, Deduct  | -7.06                     |                         |
| For>250 To 500, Deduct  | -10.96                    |                         |
| For>500, Deduct   | -14.86                    |                         |
| 26 51 19 00-0245 EA 4" Diameter, 7 Watt, Can Retrofit, LED Downlight (Green Creative0 1-811-D) .....                                  | 91.61                     | 42.16                   |
| For>50 To 100, Deduct   | -3.87                     |                         |
| For>100 To 250, Deduct  | -6.16                     |                         |
| For>250 To 500, Deduct  | -9.16                     |                         |
| For>500, Deduct   | -12.16                    |                         |
| 26 51 19 00-0246 EA 6" Diameter, 9.5 Watt, Can Retrofit, LED Downlight (Green Creative0 1-808-D).....                                 | 91.61                     | 42.16                   |
| For>50 To 100, Deduct   | -3.87                     |                         |
| For>100 To 250, Deduct  | -6.16                     |                         |
| For>250 To 500, Deduct  | -9.16                     |                         |
| For>500, Deduct   | -12.16                    |                         |
| 26 51 19 00-0247 EA 6" Diameter, 8.9 Watt, Can Retrofit, LED Downlight (Lithonia 6BP) .....   | 150.17                    | 42.16                   |
| For Recessed IC/Non-IC Rated Housing For New Construction, Add  | 56.46                     |                         |
| For>50 To 100, Deduct   | -5.34                     |                         |
| For>100 To 250, Deduct  | -9.09                     |                         |
| For>250 To 500, Deduct  | -15.02                    |                         |
| For>500, Deduct   | -20.94                    |                         |
| 26 51 19 00-0248 EA 4" Diameter, 8 Watt, 600 Lumens, Retrofit LED Downlight (Sylvania LED/RT4/550/840) .....                          | 81.54                     | 42.16                   |
| For>50 To 100, Deduct   | -3.62                     |                         |
| For>100 To 250, Deduct  | -5.66                     |                         |
| For>250 To 500, Deduct  | -8.15                     |                         |
| For>500, Deduct   | -10.65                    |                         |
| 26 51 19 00-0249 EA 5" Diameter, 10 Watt, 700 Lumens, Retrofit LED Downlight (Sylvania LED/RT5/6/625/840) .....                       | 88.89                     | 42.16                   |
| For>50 To 100, Deduct   | -3.80                     |                         |
| For>100 To 250, Deduct  | -6.03                     |                         |
| For>250 To 500, Deduct  | -8.89                     |                         |
| For>500, Deduct   | -11.75                    |                         |
| 26 51 19 00-0250 EA 6" Diameter, 800 Lumens, 10 Watt, Retrofit LED Wallwash Downlight (Indy Lighting LRT6-08LM) .....                 | 925.00                    | 42.16                   |
| For>50 To 100, Deduct   | -24.71                    |                         |
| For>100 To 250, Deduct  | -47.83                    |                         |
| For>250 To 500, Deduct  | -92.50                    |                         |
| For>500, Deduct   | -137.17                   |                         |
| <b>26 51 19 00-0251 Wall Mount LED Cylinder Downlight (26 51 19 00-0001)</b>  |                           |                         |
| 26 51 19 00-0252 EA 9" Diameter, 2,200 Lumens, Wall Mount LED Cylinder Downlight With Semi-Specular Trim (Gotham® EVO® CLED9).....    | 391.84                    | 65.50                   |
| For>50 To 100, Deduct   | -12.26                    |                         |
| For>100 To 250, Deduct  | -22.05                    |                         |
| For>250 To 500, Deduct  | -39.18                    |                         |
| For>500, Deduct   | -56.32                    |                         |
| <b>26 51 19 00-0253 Wall Sconce And Wall Wash LED Fixtures (26 51 19 00-0001)</b>   |                           |                         |
| <b>26 51 19 00-0254 LED Wall Sconce Fixtures (Hudson Valley Lighting) (26 51 19 00-0253)</b>  |                           |                         |
| 26 51 19 00-0255 EA 2-1/2" Diameter x 15-1/2" High, Polished Nickel, LED Wall Sconce (Hudson Valley Lighting SHAW 1200-PN) .....      | 542.44                    | 61.53                   |
| For>50 To 100, Deduct   | -15.87                    |                         |
| For>100 To 250, Deduct  | -29.43                    |                         |
| For>250 To 500, Deduct  | -54.24                    |                         |
| For>500, Deduct   | -79.06                    |                         |
| <b>26 51 19 00-0256 LED Wall Sconce Fixtures (Kichler) (26 51 19 00-0253)</b>   |                           |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 26 51 19 00-0257        | EA  |     | 6" High x 11.75" Wide x 3.5" Deep, 900 Lumens, 15 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Kichler 10790NILED).....   | 310.25                 | 61.53                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -10.06                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -17.82                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -31.03                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -44.23                 |                      |
| <b>26 51 19 00-0258</b> |     |     | <b>LED Wall Sconce Fixtures (Metalux)</b> (26 51 19 00-0253)  |                        |                      |
| 26 51 19 00-0259        | EA  |     | 9.875" High x 7.125" Wide x 3.5" Deep, 9 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Metalux AFX VNTS071009L30ENBN)..... | 178.72                 | 61.53                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -6.78                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -11.24                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -17.87                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -24.50                 |                      |
| 26 51 19 00-0260        | EA  |     | 5" LED, Cape Sconce Wall Light, White (AFX CAPW050804L30ENWH).....  | 167.92                 | 61.53                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -6.51                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -10.70                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -16.79                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -22.88                 |                      |
| <b>26 51 19 00-0261</b> |     |     | <b>Concealed Continuous LED Fixtures</b> (26 51 19 00-0001)   |                        |                      |
| <b>26 51 19 00-0262</b> |     |     | <b>Concealed Continuous LED Fixtures (Fraqtir™ S301)</b> (26 51 19 00-0261)   |                        |                      |
| 26 51 19 00-0263        | LF  |     | Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Driver (Fraqtir™ S301).....   | 716.02                 | 7.02                 |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -18.25                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -36.15                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -71.60                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -107.05                |                      |
| 26 51 19 00-0264        | LF  |     | Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Dimming Driver (Fraqtir™ S301).....                                       | 815.97                 | 7.02                 |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -20.75                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -41.15                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -81.60                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -122.04                |                      |
| <b>26 51 19 00-0265</b> |     |     | <b>Low Bay LED Fixtures</b> (26 51 19 00-0001)  |                        |                      |
| <b>26 51 19 00-0266</b> |     |     | <b>LED Linear Low Bay Fixtures (PlanLED)</b> (26 51 19 00-0265)   |                        |                      |
| 26 51 19 00-0267        | EA  |     | 4' Length, 23 Watt, LED Linear Low Bay Fixture (PlanLED A1W4).....  | 393.57                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.35                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -23.19                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -39.36                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -55.52                 |                      |
| 26 51 19 00-0268        | EA  |     | 4' Length, 42 Watt, LED Linear Low Bay Fixture (PlanLED A2W4A).....   | 524.30                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -16.62                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -29.73                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -52.43                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -75.13                 |                      |
| 26 51 19 00-0269        | EA  |     | 8' Length, 84 Watt, LED Linear Low Bay Fixture (PlanLED A2W5A).....   | 860.95                 | 105.41               |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -25.92                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -47.44                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -86.10                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -124.75                |                      |
| <b>26 51 19 00-0270</b> |     |     | <b>LED Low Bay Fixtures (CREE®)</b> (26 51 19 00-0265)  |                        |                      |
| <b>26 51 19 00-0271</b> |     |     | <b>LED Low Bay Fixtures (CREE® LS)</b> (26 51 19 00-0270)   |                        |                      |
|                         |     |     | Note: Includes 120/277 voltage and 22 gauge steel housing assembly. Excludes sensors.   |                        |                      |
| 26 51 19 00-0272        | EA  |     | 2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-35K-10V).....   | 363.71                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -12.61                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -21.70                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -36.37                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -51.04                 |                      |
| 26 51 19 00-0273        | EA  |     | 2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-50K-10V).....   | 386.59                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.18                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -22.84                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -38.66                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -54.47                 |                      |
| 26 51 19 00-0274        | EA  |     | 4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-35K-10V).....   | 373.24                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -12.84                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -22.18                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -37.32                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -52.47                 |                      |
| 26 51 19 00-0275        | EA  |     | 4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-50K-10V).....   | 396.13                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.42                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -23.32                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -39.61                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -55.91                 |                      |
| 26 51 19 00-0276        | EA  |     | 5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-35K-10V).....   | 413.30                 | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -13.85                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -24.18                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -41.33                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -58.48                 |                      |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0277 EA 5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-50K-10V).....                                 | 436.19                    | 84.33                   |
| For>50 To 100, Deduct   | -14.42                    |                         |
| For>100 To 250, Deduct  | -25.32                    |                         |
| For>250 To 500, Deduct  | -43.62                    |                         |
| For>500, Deduct   | -61.91                    |                         |
| 26 51 19 00-0278 EA 8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-35K-10V).....                                 | 576.23                    | 105.41                  |
| For>50 To 100, Deduct   | -18.80                    |                         |
| For>100 To 250, Deduct  | -33.20                    |                         |
| For>250 To 500, Deduct  | -57.62                    |                         |
| For>500, Deduct   | -82.04                    |                         |
| 26 51 19 00-0279 EA 8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-50K-10V).....                                 | 618.19                    | 105.41                  |
| For>50 To 100, Deduct   | -19.85                    |                         |
| For>100 To 250, Deduct  | -35.30                    |                         |
| For>250 To 500, Deduct  | -61.82                    |                         |
| For>500, Deduct   | -88.34                    |                         |
| 26 51 19 00-0280 EA 10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-35K-10V).....                               | 705.93                    | 105.41                  |
| For>50 To 100, Deduct   | -22.04                    |                         |
| For>100 To 250, Deduct  | -39.69                    |                         |
| For>250 To 500, Deduct  | -70.59                    |                         |
| For>500, Deduct   | -101.50                   |                         |
| 26 51 19 00-0281 EA 10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-50K-10V).....                               | 728.81                    | 105.41                  |
| For>50 To 100, Deduct   | -22.61                    |                         |
| For>100 To 250, Deduct  | -40.83                    |                         |
| For>250 To 500, Deduct  | -72.88                    |                         |
| For>500, Deduct   | -104.93                   |                         |
| <b>26 51 19 00-0282 LED Low Bay Fixtures (CREE® LN)</b> (26 51 19 00-0270)  |                           |                         |
| Note: Includes 120/277 voltage and aluminum housing assembly. Excludes sensors.   |                           |                         |
| 26 51 19 00-0283 EA 3,400 Lumens, 4' Length, LED Low Bay Fixture (Cree® LN4-34L-35K-10V) .....                                | 787.13                    | 84.33                   |
| For>50 To 100, Deduct   | -23.19                    |                         |
| For>100 To 250, Deduct  | -42.87                    |                         |
| For>250 To 500, Deduct  | -78.71                    |                         |
| For>500, Deduct   | -114.56                   |                         |
| 26 51 19 00-0284 EA 3,400 Lumens, 4' Length, LED Low Bay Fixture, Smartcast Technology (Cree® LN4-34L-35K-CMA) .....          | 882.50                    | 84.33                   |
| For>50 To 100, Deduct   | -25.58                    |                         |
| For>100 To 250, Deduct  | -47.64                    |                         |
| For>250 To 500, Deduct  | -88.25                    |                         |
| For>500, Deduct   | -128.86                   |                         |
| <b>26 51 19 00-0285 LED Linear Low Bay Fixtures (CREE® CS)</b> (26 51 19 00-0270)   |                           |                         |
| Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and lightweight polymer housing assembly. Excludes sensors. |                           |                         |
| 26 51 19 00-0286 EA 4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Cree® CS14™).....                                    | 761.98                    | 84.33                   |
| For>50 To 100, Deduct   | -22.56                    |                         |
| For>100 To 250, Deduct  | -41.61                    |                         |
| For>250 To 500, Deduct  | -76.20                    |                         |
| For>500, Deduct   | -110.78                   |                         |
| 26 51 19 00-0287 EA 7,500 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....                                    | 947.45                    | 105.41                  |
| For>50 To 100, Deduct   | -28.08                    |                         |
| For>100 To 250, Deduct  | -51.76                    |                         |
| For>250 To 500, Deduct  | -94.75                    |                         |
| For>500, Deduct   | -137.73                   |                         |
| 26 51 19 00-0288 EA 8,000 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....                                    | 1,196.53                  | 105.41                  |
| For>50 To 100, Deduct   | -34.31                    |                         |
| For>100 To 250, Deduct  | -64.22                    |                         |
| For>250 To 500, Deduct  | -119.65                   |                         |
| For>500, Deduct   | -175.09                   |                         |
| <b>26 51 19 00-0289 Accessories For LED Low Bay Fixtures (CREE®)</b> (26 51 19 00-0270)                                       |                           |                         |
| 26 51 19 00-0290 EA Continuous Row Through Wiring Kit For 4' Fixtures (Cree® LS4TWK) .....                                    | 72.17                     | 23.10                   |
| For>50 To 100, Deduct   | -2.77                     |                         |
| For>100 To 250, Deduct  | -4.57                     |                         |
| For>250 To 500, Deduct  | -7.22                     |                         |
| For>500, Deduct   | -9.86                     |                         |
| 26 51 19 00-0291 EA Continuous Row Through Wiring Kit For 8' Fixtures (Cree® LS8TWK) .....                                    | 78.91                     | 23.10                   |
| For>50 To 100, Deduct   | -2.94                     |                         |
| For>100 To 250, Deduct  | -4.91                     |                         |
| For>250 To 500, Deduct  | -7.89                     |                         |
| For>500, Deduct   | -10.87                    |                         |
| 26 51 19 00-0292 EA Top Housing Aligner For Continuous Row Installations (Cree® LS-RJ).....                                   | 60.94                     | 23.10                   |
| For>50 To 100, Deduct   | -2.49                     |                         |
| For>100 To 250, Deduct  | -4.01                     |                         |
| For>250 To 500, Deduct  | -6.09                     |                         |
| For>500, Deduct   | -8.18                     |                         |
| 26 51 19 00-0293 EA Reflector Joint Aligner For Continuous Row Installations (Cree® LS-RFLJ) .....                            | 49.73                     | 23.10                   |
| For>50 To 100, Deduct   | -2.21                     |                         |
| For>100 To 250, Deduct  | -3.45                     |                         |
| For>250 To 500, Deduct  | -4.97                     |                         |
| For>500, Deduct   | -6.50                     |                         |



|                          |              |
|--------------------------|--------------|
| <b>Electrical</b>        | <b>26</b>    |
| <b>Lighting</b>          | <b>26 50</b> |
| <b>Interior Lighting</b> | <b>26 51</b> |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 51 19 00-0294 | EA  |     | Solid Reflector, Pair (Cree® LS4-SR).....   | 150.70                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.73                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -8.50                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -15.07                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -21.64                 |                      |
| 26 51 19 00-0295 | EA  |     | Solid Reflector, Pair (Cree® LS8-SR).....   | 206.81                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -6.13                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -11.30                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -20.68                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -30.06                 |                      |
| 26 51 19 00-0296 | EA  |     | 5" Cable Canopy With #18/2 SJT Cord, 48" (Cree® AC5-18/2-48-Q14B-JB).....   | 78.91                  | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.94                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -4.91                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -7.89                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -10.87                 |                      |
| 26 51 19 00-0297 | EA  |     | 5" Cable Canopy With #18/2 SJT Cord, 72" (Cree® AC5-18/2-72-Q14B-JB).....   | 110.32                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.72                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -6.48                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -11.03                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -15.59                 |                      |
| 26 51 19 00-0298 | EA  |     | 5" Cable Canopy With #18/5 SJT Cord, 48" (Cree® AC5-18/5-48-Q14B-JB).....   | 87.87                  | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.16                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -5.36                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -8.79                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -12.22                 |                      |
| 26 51 19 00-0299 | EA  |     | 5" Cable Canopy With #18/5 SJT Cord, 72" (Cree® AC5-18/5-72-Q14B-JB).....   | 117.05                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.89                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -6.82                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -11.71                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -16.59                 |                      |
| 26 51 19 00-0300 | EA  |     | 5" Cable Canopy With #18/5 SJT Cord, 96" (Cree® AC5-18/5-96-Q14B-JB).....   | 123.79                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.06                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -7.15                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -12.38                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -17.61                 |                      |
| 26 51 19 00-0301 | EA  |     | 5" Cable Canopy With #12/3 SJT Cord, 48" (Cree® AC5-12/3-48-Q14B-JB).....   | 105.82                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.61                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -6.25                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -10.58                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -14.91                 |                      |
| 26 51 19 00-0302 | EA  |     | 5" Cable Canopy With #12/3 SJT Cord, 72" (Cree® AC5-12/3-72-Q14B-JB).....   | 157.43                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -4.90                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -8.83                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -15.74                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -22.65                 |                      |
| 26 51 19 00-0303 | EA  |     | Set Of End Caps, One With Power Feed, One Without (Cree® LN-EC).....  | 83.39                  | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.05                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -5.13                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -8.34                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -11.55                 |                      |
| 26 51 19 00-0304 | EA  |     | Canopy Kit With Aircraft Cable And Opening For Power Feed (Cree® LN-CK-5-AC).....   | 101.34                 | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -3.50                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -6.03                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -10.13                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -14.24                 |                      |
| 26 51 19 00-0305 | EA  |     | Canopy Kit With Aircraft Cable No Opening For Power Feed (Cree® LN-CK-0-AC).....  | 78.91                  | 23.10                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -2.94                  |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -4.91                  |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -7.89                  |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -10.87                 |                      |
| 26 51 19 00-0306 | EA  |     | Emergency 125W Inverter, Ceiling Installed (Cree® ELI-125W).....  | 1,486.77               | 56.22                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -39.28                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -76.45                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -148.68                |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -220.91                |                      |
| 26 51 19 00-0307 | EA  |     | 120 Volt, Emergency Relay For Use With Generator Power (Cree® EL-SR-120).....   | 533.10                 | 56.22                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -15.44                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -28.76                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -53.31                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -77.86                 |                      |
| 26 51 19 00-0308 |     |     | LED Linear Low Bay Fixtures (Lithonia MSL) <sup>(26 51 19 00-0265)</sup><br>Note: Includes 3,500K, 4,000K or 5,000K color temperature, 120/277 voltage and steel housing assembly.<br>Excludes sensors. |                        |                      |
| 26 51 19 00-0309 | EA  |     | 4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Lithonia MSL).....   | 999.29                 | 84.33                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -28.50                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -53.48                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -99.93                 |                      |
|                  |     |     | <i>For &gt;500, Deduct</i>  | -146.38                |                      |
| 26 51 19 00-0310 |     |     | High Bay LED Fixtures <sup>(26 51 19 00-0001)</sup>   |                        |                      |
| 26 51 19 00-0311 |     |     | LED High Bay Fixtures (Columbia Lighting LWS) <sup>(26 51 19 00-0310)</sup>   |                        |                      |

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------|------------|-----|---|---------------------------|-------------------------|
| 26 51 | 19 00-0312 | EA  | 16" x 24", 7,909 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-LW-EU).....     | 556.01                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -21.63                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -35.53                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -55.60                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -75.67                    |                         |
| 26 51 | 19 00-0313 | EA  | 16" x 24", 8,526 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-LW-W-EU).....   | 556.01                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -21.63                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -35.53                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -55.60                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -75.67                    |                         |
| 26 51 | 19 00-0314 | EA  | 16" x 24", 11,812 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-ML-W-EU).....  | 615.25                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -23.11                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -38.49                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -61.53                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -84.56                    |                         |
| 26 51 | 19 00-0315 | EA  | 16" x 24", 12,734 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-ML-W-EU).....  | 615.25                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -23.11                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -38.49                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -61.53                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -84.56                    |                         |
| 26 51 | 19 00-0316 | EA  | 16" x 24", 14,813 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-HL-W-EU)..... | 713.97                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -25.58                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -43.43                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -71.40                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -99.37                    |                         |
| 26 51 | 19 00-0317 | EA  | 16" x 24", 15,968 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-HL-W-EU)..... | 713.97                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -25.58                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -43.43                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -71.40                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -99.37                    |                         |
| 26 51 | 19 00-0318 | EA  | 16" x 24", 18,714 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-VL-W-EU)..... | 753.45                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -26.57                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -45.40                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -75.35                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -105.29                   |                         |
| 26 51 | 19 00-0319 | EA  | 16" x 24", 19,511 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-VL-W-EU)..... | 753.45                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -26.57                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -45.40                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -75.35                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -105.29                   |                         |
| 26 51 | 19 00-0320 | EA  | 16" x 24", 22,994 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-XL-W-EU).....   | 783.07                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -27.31                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -46.88                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -78.31                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -109.73                   |                         |
| 26 51 | 19 00-0321 | EA  | 16" x 24", 24,787 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-XL-W-EU).....   | 783.07                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -27.31                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -46.88                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -78.31                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -109.73                   |                         |
| 26 51 | 19 00-0322 |     | <b>LED High Bay Fixtures (Cree)</b> <small>(26 51 19 00-0310)</small>                                       |                           |                         |
| 26 51 | 19 00-0323 |     | <b>LED High Bay Fixtures (CREE®)</b> <small>(26 51 19 00-0322)</small>                                      |                           |                         |
| 26 51 | 19 00-0324 | EA  | 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-10V).....            | 955.79                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -31.63                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -55.52                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -95.58                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -135.64                   |                         |
| 26 51 | 19 00-0325 | EA  | 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-ML).....             | 1,139.45                  | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -36.22                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -64.70                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -113.95                   |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -163.19                   |                         |
| 26 51 | 19 00-0326 | EA  | 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-10V).....            | 1,049.71                  | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -33.97                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -60.22                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -104.97                   |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -149.73                   |                         |
| 26 51 | 19 00-0327 | EA  | 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-ML).....             | 1,195.56                  | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -37.62                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -67.51                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -119.56                   |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -171.60                   |                         |
| 26 51 | 19 00-0328 | EA  | 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-10V).....            | 988.22                    | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -32.44                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -57.14                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -98.82                    |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -140.50                   |                         |
| 26 51 | 19 00-0329 | EA  | 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-ML).....             | 1,173.11                  | 154.61                  |
|       |            |     | <i>For &gt;50 To 100, Deduct</i>  | -37.06                    |                         |
|       |            |     | <i>For &gt;100 To 250, Deduct</i>   | -66.39                    |                         |
|       |            |     | <i>For &gt;250 To 500, Deduct</i>   | -117.31                   |                         |
|       |            |     | <i>For &gt;500, Deduct</i>  | -168.24                   |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Interior Lighting | 26 51     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 51 19 00-0330 EA 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-10V).....                  | 1,083.36                  | 154.61                  |
| For >50 To 100, Deduct  | -34.81                    |                         |
| For >100 To 250, Deduct   | -61.90                    |                         |
| For >250 To 500, Deduct   | -108.34                   |                         |
| For >500, Deduct  | -154.77                   |                         |
| 26 51 19 00-0331 EA 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-ML).....                   | 1,229.21                  | 154.61                  |
| For >50 To 100, Deduct  | -38.46                    |                         |
| For >100 To 250, Deduct   | -69.19                    |                         |
| For >250 To 500, Deduct   | -122.92                   |                         |
| For >500, Deduct  | -176.65                   |                         |
| <b>26 51 19 00-0332 Accessories For LED High Bay Fixtures (CREE®) (26 51 19 00-0322)</b>  |                           |                         |
| 26 51 19 00-0333 EA 15 Amperes, 120 Volt, Straight Blade Plug For LED High Bay Fixtures (Cree® AP-515P).....                          | 72.17                     | 23.10                   |
| For >50 To 100, Deduct  | -2.77                     |                         |
| For >100 To 250, Deduct   | -4.57                     |                         |
| For >250 To 500, Deduct   | -7.22                     |                         |
| For >500, Deduct  | -9.86                     |                         |
| 26 51 19 00-0334 EA 15 Amperes, 120 Volt, Twist Lock Plug For LED High Bay Fixtures (Cree® AP-L515P).....                             | 72.17                     | 23.10                   |
| For >50 To 100, Deduct  | -2.77                     |                         |
| For >100 To 250, Deduct   | -4.57                     |                         |
| For >250 To 500, Deduct   | -7.22                     |                         |
| For >500, Deduct  | -9.86                     |                         |
| 26 51 19 00-0335 EA 16" Matte Spun Aluminum Reflector For LED High Bay Fixture (Cree® CXBA16N).....                                   | 94.60                     | 23.10                   |
| For >50 To 100, Deduct  | -3.33                     |                         |
| For >100 To 250, Deduct   | -5.69                     |                         |
| For >250 To 500, Deduct   | -9.46                     |                         |
| For >500, Deduct  | -13.23                    |                         |
| 26 51 19 00-0336 EA 16" Clear Acrylic Reflector For LED High Bay Fixture (Cree® CXBP16).....  | 139.48                    | 23.10                   |
| For >50 To 100, Deduct  | -4.45                     |                         |
| For >100 To 250, Deduct   | -7.94                     |                         |
| For >250 To 500, Deduct   | -13.95                    |                         |
| For >500, Deduct  | -19.96                    |                         |
| 26 51 19 00-0337 EA 16" White Acrylic Reflector For LED High Bay Fixture (Cree® CXBW16).....  | 161.93                    | 23.10                   |
| For >50 To 100, Deduct  | -5.01                     |                         |
| For >100 To 250, Deduct   | -9.06                     |                         |
| For >250 To 500, Deduct   | -16.19                    |                         |
| For >500, Deduct  | -23.33                    |                         |
| 26 51 19 00-0338 EA 16" Clear Prismatic Conical Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® CL16)..... | 94.60                     | 23.10                   |
| For >50 To 100, Deduct  | -3.33                     |                         |
| For >100 To 250, Deduct   | -5.69                     |                         |
| For >250 To 500, Deduct   | -9.46                     |                         |
| For >500, Deduct  | -13.23                    |                         |
| 26 51 19 00-0339 EA 16" Clear Prismatic Drop Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® DL16).....    | 96.86                     | 23.10                   |
| For >50 To 100, Deduct  | -3.38                     |                         |
| For >100 To 250, Deduct   | -5.81                     |                         |
| For >250 To 500, Deduct   | -9.69                     |                         |
| For >500, Deduct  | -13.57                    |                         |
| 26 51 19 00-0340 EA 16" Wire Guard For Aluminum Reflector For LED High Bay Fixtures (Cree® WG-A).....                                 | 72.17                     | 23.10                   |
| For >50 To 100, Deduct  | -2.77                     |                         |
| For >100 To 250, Deduct   | -4.57                     |                         |
| For >250 To 500, Deduct   | -7.22                     |                         |
| For >500, Deduct  | -9.86                     |                         |
| 26 51 19 00-0341 EA 16" Wire Guard For Prismatic And Acrylic Reflector For LED High Bay Fixtures (Cree® WG-AP).....                   | 76.66                     | 23.10                   |
| For >50 To 100, Deduct  | -2.88                     |                         |
| For >100 To 250, Deduct   | -4.80                     |                         |
| For >250 To 500, Deduct   | -7.67                     |                         |
| For >500, Deduct  | -10.54                    |                         |
| 26 51 19 00-0342 EA 5' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-5).....  | 51.98                     | 23.10                   |
| For >50 To 100, Deduct  | -2.26                     |                         |
| For >100 To 250, Deduct   | -3.56                     |                         |
| For >250 To 500, Deduct   | -5.20                     |                         |
| For >500, Deduct  | -6.83                     |                         |
| 26 51 19 00-0343 EA 10' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-10).....  | 54.23                     | 23.10                   |
| For >50 To 100, Deduct  | -2.32                     |                         |
| For >100 To 250, Deduct   | -3.67                     |                         |
| For >250 To 500, Deduct   | -5.42                     |                         |
| For >500, Deduct  | -7.17                     |                         |
| <b>26 51 19 00-0344 LED High Bay Fixtures (DLE) (26 51 19 00-0310)</b>  |                           |                         |
| 26 51 19 00-0345 EA 12,000 Lumens, 120 Watt, LED High Bay Fixture (DLE-12-ST/HV).....   | 1,487.86                  | 154.61                  |
| For >50 To 100, Deduct  | -44.93                    |                         |
| For >100 To 250, Deduct   | -82.12                    |                         |
| For >250 To 500, Deduct   | -148.79                   |                         |
| For >500, Deduct  | -215.45                   |                         |
| 26 51 19 00-0346 EA 18,000 Lumens, 180 Watt, LED High Bay Fixture (DLE-18-ST/HV).....   | 1,812.57                  | 154.61                  |
| For >50 To 100, Deduct  | -53.04                    |                         |
| For >100 To 250, Deduct   | -98.36                    |                         |
| For >250 To 500, Deduct   | -181.26                   |                         |
| For >500, Deduct  | -264.16                   |                         |
| 26 51 19 00-0347 EA 24,000 Lumens, 230 Watt, LED High Bay Fixture (DLE-24-ST/HV).....   | 2,114.09                  | 154.61                  |
| For >50 To 100, Deduct  | -60.58                    |                         |
| For >100 To 250, Deduct   | -113.43                   |                         |
| For >250 To 500, Deduct   | -211.41                   |                         |
| For >500, Deduct  | -309.38                   |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



| MINOR            | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|--|------------------------|----------------------|
| 26 51 19 00-0348 | LED High Bay Fixtures (Everlast) <small>(26 51 19 00-0310)</small>                   |                        |                      |
| 26 51 19 00-0349 | LED High Bay Fixtures (Everlast EL-LED-LG) <small>(26 51 19 00-0348)</small>         |                        |                      |
| 26 51 19 00-0350 | EA 13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....       | 1,026.10               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -33.38                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -59.04                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -102.61                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -146.18                |                      |
| 26 51 19 00-0351 | EA 13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....       | 1,080.92               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -34.75                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -61.78                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -108.09                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -154.41                |                      |
| 26 51 19 00-0352 | EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16) .....    | 971.28                 | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -32.01                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -56.29                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -97.13                 |                      |
|                  | <i>For &gt;500, Deduct</i>   | -137.96                |                      |
| 26 51 19 00-0353 | EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22) .....    | 994.47                 | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -32.59                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -57.45                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -99.45                 |                      |
|                  | <i>For &gt;500, Deduct</i>   | -141.44                |                      |
| 26 51 19 00-0354 | EA 17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....       | 1,120.98               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -35.75                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -63.78                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -112.10                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -160.42                |                      |
| 26 51 19 00-0355 | EA 17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....       | 1,215.87               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -38.13                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -68.52                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -121.59                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -174.65                |                      |
| 26 51 19 00-0356 | EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16) .....    | 1,070.38               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -34.49                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -61.25                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -107.04                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -152.83                |                      |
| 26 51 19 00-0357 | EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22) .....    | 1,152.61               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -36.55                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -65.36                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -115.26                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -165.16                |                      |
| 26 51 19 00-0358 | EA 34,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30) ..... | 1,648.11               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -48.93                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -90.14                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -164.81                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -239.49                |                      |
| 26 51 19 00-0359 | EA 43,000 Lumens, 400 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30) ..... | 1,795.71               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -52.62                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -97.52                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -179.57                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -261.63                |                      |
| 26 51 19 00-0360 | EA 66,000 Lumens, 600 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30) ..... | 2,217.41               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -63.17                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -118.60                |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -221.74                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -324.88                |                      |
| 26 51 19 00-0361 | LED High Bay Fixtures (Everlast EL-LED-CS) <small>(26 51 19 00-0348)</small>         |                        |                      |
| 26 51 19 00-0362 | EA 5,000 Lumens, 50 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....             | 667.66                 | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -24.42                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -41.11                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -66.77                 |                      |
|                  | <i>For &gt;500, Deduct</i>   | -92.42                 |                      |
| 26 51 19 00-0363 | EA 10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....          | 952.30                 | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -31.54                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -55.35                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -95.23                 |                      |
|                  | <i>For &gt;500, Deduct</i>   | -135.11                |                      |
| 26 51 19 00-0364 | EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....          | 1,078.81               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -34.70                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -61.67                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -107.88                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -154.09                |                      |
| 26 51 19 00-0365 | EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....          | 1,226.41               | 154.61               |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -38.39                 |                      |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -69.05                 |                      |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -122.64                |                      |
|                  | <i>For &gt;500, Deduct</i>   | -176.23                |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR   |  | TOTAL DIRECT                                       |           | DEMOLITION |
|---|--|--|-----------|------------|
| CSI   | UOM DESCRIPTION  | UNIT COST  | UNIT COST | UNIT COST  |
| 26 51 19 00-0366  | EA 30,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                    | 1,321.29<br>-40.76<br>-73.79<br>-132.13<br>-190.46 |           | 154.61     |
| <b>26 51 19 00-0367 LED High Bay Fixtures (Everlast EL-LED-HB-LG) <small>(26 51 19 00-0348)</small></b> |  |  |           |            |
| 26 51 19 00-0368  | EA 10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                 | 857.42<br>-29.17<br>-50.60<br>-85.74<br>-120.88    |           | 154.61     |
| 26 51 19 00-0369  | EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                 | 910.13<br>-30.48<br>-53.24<br>-91.01<br>-128.79    |           | 154.61     |
| 26 51 19 00-0370  | EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                 | 983.93<br>-32.33<br>-56.93<br>-98.39<br>-139.86    |           | 154.61     |
| <b>26 51 19 00-0371 LED High Bay Fixtures (Everlast EL-LED-LHB) <small>(26 51 19 00-0348)</small></b>   |  |  |           |            |
| 26 51 19 00-0372  | EA 13,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-LHB) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                   | 870.07<br>-29.48<br>-51.23<br>-87.01<br>-122.78    |           | 154.61     |
| 26 51 19 00-0373  | EA 26,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LHB) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                   | 1,057.73<br>-34.17<br>-60.62<br>-105.77<br>-150.93 |           | 154.61     |
| 26 51 19 00-0374  | EA 39,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LHB) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>                                   | 1,300.21<br>-40.24<br>-72.74<br>-130.02<br>-187.30 |           | 154.61     |
| <b>26 51 19 00-0375 LED High Bay Fixtures (Lithonia IBG) <small>(26 51 19 00-0310)</small></b>          |  |  |           |            |
| 26 51 19 00-0376  | EA 8,000 Lumens, 48 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 8000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>     | 463.05<br>-17.35<br>-28.93<br>-46.31<br>-63.68     |           | 151.79     |
| 26 51 19 00-0377  | EA 12,000 Lumens, 76 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 12000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>   | 478.59<br>-17.74<br>-29.70<br>-47.66<br>-66.02     |           | 151.79     |
| 26 51 19 00-0378  | EA 15,000 Lumens, 93 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 15000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>   | 513.56<br>-18.61<br>-31.45<br>-51.36<br>-71.26     |           | 151.79     |
| 26 51 19 00-0379  | EA 18,000 Lumens, 105 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 18000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 568.77<br>-19.99<br>-34.21<br>-56.88<br>-79.54     |           | 151.79     |
| 26 51 19 00-0380  | EA 24,000 Lumens, 144 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 24000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 613.72<br>-21.12<br>-36.46<br>-61.37<br>-86.29     |           | 151.79     |
| 26 51 19 00-0381  | EA 30,000 Lumens, 178 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 30000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 719.38<br>-23.76<br>-41.74<br>-71.94<br>-102.13    |           | 151.79     |
| 26 51 19 00-0382  | EA 36,000 Lumens, 218 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 36000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 854.28<br>-27.13<br>-48.49<br>-85.43<br>-122.37    |           | 151.79     |
| 26 51 19 00-0383  | EA 48,000 Lumens, 284 Watt, 47.29" Length, LED High Bay Fixture (Lithonia IBG 48000LM SEF ACL GND MVOLT) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 1,223.37<br>-38.31<br>-68.90<br>-122.34<br>-175.78 |           | 154.61     |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 51 19 00-0384 |     | <b>LED High Bay Fixtures (Lithonia IBL)</b> (26 51 19 00-0310)  |                           |                         |
| 26 51 19 00-0385 | EA  | 9,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 9L) .....                                  | 687.47                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -24.92                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -42.10                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -68.75                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -95.39                    |                         |
| 26 51 19 00-0386 | EA  | 12,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 12L) .....                                | 736.83                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -26.15                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -44.57                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -73.68                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -102.79                   |                         |
| 26 51 19 00-0387 | EA  | 18,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 18L) .....                                | 870.11                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -29.48                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -51.24                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -87.01                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -122.79                   |                         |
| 26 51 19 00-0388 | EA  | 24,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 24L) .....                                | 923.42                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -30.82                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -53.90                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -92.34                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -130.78                   |                         |
| 26 51 19 00-0389 |     | <b>LED High Bay Fixtures (Metalux SSLED)</b> (26 51 19 00-0310)   |                           |                         |
| 26 51 19 00-0390 | EA  | 12,000 Lumens, 80 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-12-M-UNV-L840-CD1U) .....  | 800.78                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -27.75                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -47.77                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -80.08                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -112.39                   |                         |
| 26 51 19 00-0391 | EA  | 15,000 Lumens, 100 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-15-M-UNV-L840-CD1U) ..... | 820.09                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -28.23                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -48.73                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -82.01                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -115.28                   |                         |
| 26 51 19 00-0392 | EA  | 18,000 Lumens, 120 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-18-M-UNV-L840-CD1U) ..... | 827.87                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -28.43                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -49.12                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -82.79                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -116.45                   |                         |
| 26 51 19 00-0393 | EA  | 24,000 Lumens, 160 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-24-M-UNV-L840-CD1U) ..... | 901.92                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -30.28                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -52.83                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -90.19                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -127.56                   |                         |
| 26 51 19 00-0394 | EA  | 30,000 Lumens, 200 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-30-M-UNV-L840-CD1U) ..... | 988.17                    | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -32.43                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -57.14                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -98.82                    |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -140.50                   |                         |
| 26 51 19 00-0395 | EA  | 36,000 Lumens, 240 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-36-M-UNV-L840-CD1U) ..... | 1,020.54                  | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -33.24                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -58.76                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -102.05                   |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -145.35                   |                         |
| 26 51 19 00-0396 |     | <b>LED High Bay Fixtures (PlanLED)</b> (26 51 19 00-0310)   |                           |                         |
| 26 51 19 00-0397 |     | <b>LED High Bay Fixtures (PlanLED LUNA)</b> (26 51 19 00-0396)  |                           |                         |
|                  |     | Note: Includes aluminum alloy chassis.  |                           |                         |
| 26 51 19 00-0398 | EA  | 7,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN70) .....  | 1,000.80                  | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -32.75                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -57.77                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -100.08                   |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -142.39                   |                         |
| 26 51 19 00-0399 | EA  | 9,800 Lumens, LED High Bay Fixture (PlanLED LUNA LN98) .....  | 1,118.88                  | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -35.70                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -63.67                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -111.89                   |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -160.10                   |                         |
| 26 51 19 00-0400 | EA  | 13,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN130) .....  | 1,289.66                  | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -39.97                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -72.21                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -128.97                   |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -185.72                   |                         |
| 26 51 19 00-0401 | EA  | 16,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN160) .....  | 1,456.24                  | 154.61                  |
|                  |     | <i>For&gt;50 To 100, Deduct</i> .....   | -44.14                    |                         |
|                  |     | <i>For&gt;100 To 250, Deduct</i> .....  | -80.54                    |                         |
|                  |     | <i>For&gt;250 To 500, Deduct</i> .....  | -145.62                   |                         |
|                  |     | <i>For&gt;500, Deduct</i> .....   | -210.71                   |                         |
| 26 51 19 00-0402 |     | <b>LED High Bay Fixtures (PlanLED IBL)</b> (26 51 19 00-0396)   |                           |                         |
|                  |     | Note: Includes aluminum alloy chassis.  |                           |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Interior Lighting | 26 51     |           |

| MINOR                   |   | TOTAL DIRECT | DEMOLITION |
|-------------------------|---|--------------|------------|
| CSI                     | UOM DESCRIPTION   | UNIT COST    | UNIT COST  |
| 26 51 19 00-0403        | EA 13,650 Lumens, 130 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 130W) .....  | 1,085.14     | 154.61     |
|                         | <i>For 480 Volt, Add</i>  | 59.16        |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -34.86       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -61.99       |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -108.51      |            |
|                         | <i>For &gt;500, Deduct</i>  | -155.04      |            |
| 26 51 19 00-0404        | EA 21,000 Lumens, 200 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 200W) .....  | 1,496.30     | 154.61     |
|                         | <i>For 480 Volt, Add</i>  | 74.97        |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -45.14       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -82.55       |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -149.63      |            |
|                         | <i>For &gt;500, Deduct</i>  | -216.71      |            |
| 26 51 19 00-0405        | EA 42,000 Lumens, 400 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 400W) .....  | 2,628.57     | 154.61     |
|                         | <i>For 480 Volt, Add</i>  | 118.95       |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -73.44       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -139.16      |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -262.86      |            |
|                         | <i>For &gt;500, Deduct</i>  | -386.56      |            |
| <b>26 51 19 00-0406</b> | <b>LED High Bay Fixtures (PlanLED SEGA) <small>(26 51 19 00-0396)</small></b>   |              |            |
|                         | Note: Includes aluminum alloy chassis.  |              |            |
| 26 51 19 00-0407        | EA 10,400 Lumens, 80 Watt, LED High Bay Fixture (PlanLED SEGA SE080) .....  | 863.75       | 154.61     |
|                         | <i>For 0 To 10 Volt Dimming, Add</i>  | 91.12        |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -29.32       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -50.92       |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -86.38       |            |
|                         | <i>For &gt;500, Deduct</i>  | -121.83      |            |
| 26 51 19 00-0408        | EA 13,000 Lumens, 100 Watt, LED High Bay Fixture (PlanLED SEGA SE100) .....   | 920.68       | 154.61     |
|                         | <i>For 0 To 10 Volt Dimming, Add</i>  | 91.12        |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -30.75       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -53.76       |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -92.07       |            |
|                         | <i>For &gt;500, Deduct</i>  | -130.37      |            |
| 26 51 19 00-0409        | EA 16,900 Lumens, 130 Watt, LED High Bay Fixture (PlanLED SEGA SE130) .....   | 1,116.77     | 154.61     |
|                         | <i>For 0 To 10 Volt Dimming, Add</i>  | 91.12        |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -35.65       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -63.57       |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -111.68      |            |
|                         | <i>For &gt;500, Deduct</i>  | -159.79      |            |
| 26 51 19 00-0410        | EA 20,800 Lumens, 160 Watt, LED High Bay Fixture (PlanLED SEGA SE160) .....   | 1,258.04     | 154.61     |
|                         | <i>For 0 To 10 Volt Dimming, Add</i>  | 91.12        |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -39.18       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -70.63       |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -125.80      |            |
|                         | <i>For &gt;500, Deduct</i>  | -180.98      |            |
| 26 51 19 00-0411        | EA 50,000 Lumens, 400 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE400).....   | 2,299.64     | 154.61     |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -65.22       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -122.71      |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -229.96      |            |
|                         | <i>For &gt;500, Deduct</i>  | -337.22      |            |
| 26 51 19 00-0412        | EA 57,040 Lumens, 500 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE500).....   | 2,485.19     | 154.61     |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -69.86       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -131.99      |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -248.52      |            |
|                         | <i>For &gt;500, Deduct</i>  | -365.05      |            |
| 26 51 19 00-0413        | EA 80,000 Lumens, 640 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE640).....   | 3,762.60     | 154.61     |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -101.80      |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -195.86      |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -376.26      |            |
|                         | <i>For &gt;500, Deduct</i>  | -556.66      |            |
| <b>26 51 19 00-0414</b> | <b>Wet/Hazardous Location, LED Fixtures <small>(26 51 19 00-0001)</small></b>   |              |            |
| <b>26 51 19 00-0415</b> | <b>Wet Location, LED Fixtures <small>(26 51 19 00-0414)</small></b>   |              |            |
| <b>26 51 19 00-0416</b> | <b>Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM) <small>(26 51 19 00-0415)</small></b>   |              |            |
|                         | Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing. |              |            |
| 26 51 19 00-0417        | EA 3,531 Lumens, 29 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM3L).....  | 2,326.32     | 118.07     |
|                         | <i>For Ceiling Mount, Add</i>   | 19.83        |            |
|                         | <i>For Quick Clip Mounting Option, Add</i>  | 29.15        |            |
|                         | <i>For Frosted Lens, Add</i>  | 62.70        |            |
|                         | <i>For Warm White Color Rendering, Add</i>  | 80.71        |            |
|                         | <i>For Stanchion Mount, Add</i>   | 135.26       |            |
|                         | <i>For Wall Mount, Add</i>  | 149.73       |            |
|                         | <i>For Polycarbonate Lens, Add</i>  | 116.20       |            |
|                         | <i>For Teflon Coated Lens, Add</i>  | 133.07       |            |
|                         | <i>For 480 Volt, Add</i>  | 190.09       |            |
|                         | <i>For &gt;50 To 100, Deduct</i>  | -63.08       |            |
|                         | <i>For &gt;100 To 250, Deduct</i>   | -121.24      |            |
|                         | <i>For &gt;250 To 500, Deduct</i>   | -232.63      |            |
|                         | <i>For &gt;500, Deduct</i>  | -344.03      |            |



|              |                          |
|--------------|--------------------------|
| <b>26</b>    | <b>Electrical</b>        |
| <b>26 50</b> | <b>Lighting</b>          |
| <b>26 51</b> | <b>Interior Lighting</b> |



| MINOR            |   | TOTAL DIRECT | DEMOLITION |
|------------------|---|--------------|------------|
| CSI              | UOM DESCRIPTION   | UNIT COST    | UNIT COST  |
| 26 51 19 00-0418 | EA 5,335 Lumens, 43 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM5L).....    | 2,373.87     | 126.49     |
|                  | <i>For Ceiling Mount, Add</i>   | 19.83        |            |
|                  | <i>For Quick Clip Mounting Option, Add</i>  | 29.15        |            |
|                  | <i>For Frosted Lens, Add</i>  | 62.70        |            |
|                  | <i>For Warm White Color Rendering, Add</i>  | 80.71        |            |
|                  | <i>For Stanchion Mount, Add</i>   | 135.26       |            |
|                  | <i>For Wall Mount, Add</i>  | 149.73       |            |
|                  | <i>For Polycarbonate Lens, Add</i>  | 116.20       |            |
|                  | <i>For Teflon Coated Lens, Add</i>  | 133.07       |            |
|                  | <i>For 480 Volt, Add</i>  | 190.09       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>  | -64.62       |            |
|                  | <i>For &gt;100 To 250, Deduct</i>   | -123.96      |            |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -237.39      |            |
|                  | <i>For &gt;500, Deduct</i>  | -350.81      |            |
| 26 51 19 00-0419 | EA 7,195 Lumens, 62 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM7L).....    | 2,676.42     | 134.93     |
|                  | <i>For Ceiling Mount, Add</i>   | 19.83        |            |
|                  | <i>For Quick Clip Mounting Option, Add</i>  | 29.15        |            |
|                  | <i>For Frosted Lens, Add</i>  | 62.70        |            |
|                  | <i>For Warm White Color Rendering, Add</i>  | 80.71        |            |
|                  | <i>For Stanchion Mount, Add</i>   | 135.26       |            |
|                  | <i>For Wall Mount, Add</i>  | 149.73       |            |
|                  | <i>For Polycarbonate Lens, Add</i>  | 116.20       |            |
|                  | <i>For Teflon Coated Lens, Add</i>  | 133.07       |            |
|                  | <i>For 480 Volt, Add</i>  | 190.09       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>  | -72.53       |            |
|                  | <i>For &gt;100 To 250, Deduct</i>   | -139.44      |            |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -267.64      |            |
|                  | <i>For &gt;500, Deduct</i>  | -395.84      |            |
| 26 51 19 00-0420 | EA 9,266 Lumens, 85 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM9L).....    | 3,212.97     | 143.37     |
|                  | <i>For Ceiling Mount, Add</i>   | 19.83        |            |
|                  | <i>For Quick Clip Mounting Option, Add</i>  | 29.15        |            |
|                  | <i>For Frosted Lens, Add</i>  | 62.70        |            |
|                  | <i>For Warm White Color Rendering, Add</i>  | 80.71        |            |
|                  | <i>For Stanchion Mount, Add</i>   | 135.26       |            |
|                  | <i>For Wall Mount, Add</i>  | 149.73       |            |
|                  | <i>For Polycarbonate Lens, Add</i>  | 116.20       |            |
|                  | <i>For Teflon Coated Lens, Add</i>  | 133.07       |            |
|                  | <i>For 480 Volt, Add</i>  | 190.09       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>  | -86.30       |            |
|                  | <i>For &gt;100 To 250, Deduct</i>   | -166.62      |            |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -321.30      |            |
|                  | <i>For &gt;500, Deduct</i>  | -475.97      |            |
| 26 51 19 00-0421 | EA 11,440 Lumens, 113 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L)..... | 4,083.78     | 151.79     |
|                  | <i>For Ceiling Mount, Add</i>   | 19.83        |            |
|                  | <i>For Quick Clip Mounting Option, Add</i>  | 29.15        |            |
|                  | <i>For Frosted Lens, Add</i>  | 62.70        |            |
|                  | <i>For Warm White Color Rendering, Add</i>  | 80.71        |            |
|                  | <i>For Stanchion Mount, Add</i>   | 135.26       |            |
|                  | <i>For Wall Mount, Add</i>  | 149.73       |            |
|                  | <i>For Polycarbonate Lens, Add</i>  | 116.20       |            |
|                  | <i>For Teflon Coated Lens, Add</i>  | 133.07       |            |
|                  | <i>For 480 Volt, Add</i>  | 190.09       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>  | -108.42      |            |
|                  | <i>For &gt;100 To 250, Deduct</i>   | -210.51      |            |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -408.38      |            |
|                  | <i>For &gt;500, Deduct</i>  | -606.24      |            |
| 26 51 19 00-0422 | EA 13,226 Lumens, 131 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L)..... | 5,354.21     | 156.01     |
|                  | <i>For Ceiling Mount, Add</i>   | 19.83        |            |
|                  | <i>For Quick Clip Mounting Option, Add</i>  | 29.15        |            |
|                  | <i>For Frosted Lens, Add</i>  | 62.70        |            |
|                  | <i>For Warm White Color Rendering, Add</i>  | 80.71        |            |
|                  | <i>For Stanchion Mount, Add</i>   | 135.26       |            |
|                  | <i>For Wall Mount, Add</i>  | 149.73       |            |
|                  | <i>For Polycarbonate Lens, Add</i>  | 116.20       |            |
|                  | <i>For Teflon Coated Lens, Add</i>  | 133.07       |            |
|                  | <i>For 480 Volt, Add</i>  | 190.09       |            |
|                  | <i>For &gt;50 To 100, Deduct</i>  | -140.36      |            |
|                  | <i>For &gt;100 To 250, Deduct</i>   | -274.21      |            |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -535.42      |            |
|                  | <i>For &gt;500, Deduct</i>  | -796.63      |            |



|  |  |                          |              |           |
|--|--|--------------------------|--------------|-----------|
|  |  | <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
|  |  | <b>Lighting</b>          | <b>26 50</b> |           |
|  |  | <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR            |     |   |           | TOTAL DIRECT | DEMOLITION |
|------------------|-----|---|-----------|--------------|------------|
| CSI              | UOM | DESCRIPTION   | UNIT COST | UNIT COST    |            |
| 26 51 19 00-0423 | EA  | 18,793 Lumens, 168 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM17L).....                                | 6,192.07  |              | 160.23     |
|                  |     | <i>For Ceiling Mount, Add</i>   | 19.83     |              |            |
|                  |     | <i>For Quick Clip Mounting Option, Add</i>  | 29.15     |              |            |
|                  |     | <i>For Frosted Lens, Add</i>  | 62.70     |              |            |
|                  |     | <i>For Warm White Color Rendering, Add</i>  | 80.71     |              |            |
|                  |     | <i>For Stanchion Mount, Add</i>   | 135.26    |              |            |
|                  |     | <i>For Wall Mount, Add</i>  | 149.73    |              |            |
|                  |     | <i>For Polycarbonate Lens, Add</i>  | 116.20    |              |            |
|                  |     | <i>For Teflon Coated Lens, Add</i>  | 133.07    |              |            |
|                  |     | <i>For 480 Volt, Add</i>  | 190.09    |              |            |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -161.48   |              |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -316.28   |              |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -619.21   |              |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -922.13   |              |            |
| 26 51 19 00-0424 |     | <b>Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM)</b> (26 51 19 00-0415)   |           |              |            |
|                  |     | Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing. |           |              |            |
| 26 51 19 00-0425 | EA  | 5,183 Lumens, 45 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM5L).....                            | 2,105.23  |              | 126.49     |
|                  |     | <i>For Bolt-On Visor, Add</i>   | 107.94    |              |            |
|                  |     | <i>For Bolt-On Wire Guard, Add</i>  | 222.02    |              |            |
|                  |     | <i>For 480 Volt, Add</i>  | 190.09    |              |            |
|                  |     | <i>For Warm White Color Rendering, Add</i>  | 80.71     |              |            |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -57.90    |              |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -110.53   |              |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -210.52   |              |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -310.51   |              |            |
| 26 51 19 00-0426 | EA  | 7,095 Lumens, 62 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM7L).....                            | 3,083.46  |              | 134.93     |
|                  |     | <i>For Bolt-On Visor, Add</i>   | 107.94    |              |            |
|                  |     | <i>For Bolt-On Wire Guard, Add</i>  | 222.02    |              |            |
|                  |     | <i>For 480 Volt, Add</i>  | 190.09    |              |            |
|                  |     | <i>For Warm White Color Rendering, Add</i>  | 80.71     |              |            |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -82.71    |              |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -159.80   |              |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -308.35   |              |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -456.90   |              |            |
| 26 51 19 00-0427 | EA  | 9,132 Lumens, 79 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM9L).....                            | 3,397.18  |              | 143.37     |
|                  |     | <i>For Bolt-On Visor, Add</i>   | 107.94    |              |            |
|                  |     | <i>For Bolt-On Wire Guard, Add</i>  | 222.02    |              |            |
|                  |     | <i>For 480 Volt, Add</i>  | 190.09    |              |            |
|                  |     | <i>For Warm White Color Rendering, Add</i>  | 80.71     |              |            |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -90.90    |              |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -175.83   |              |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -339.72   |              |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -503.60   |              |            |
| 26 51 19 00-0428 | EA  | 11,107 Lumens, 99 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM11L).....                          | 3,894.53  |              | 151.79     |
|                  |     | <i>For Bolt-On Visor, Add</i>   | 107.94    |              |            |
|                  |     | <i>For Bolt-On Wire Guard, Add</i>  | 222.02    |              |            |
|                  |     | <i>For 480 Volt, Add</i>  | 190.09    |              |            |
|                  |     | <i>For Warm White Color Rendering, Add</i>  | 80.71     |              |            |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -103.69   |              |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -201.05   |              |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -389.45   |              |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -577.85   |              |            |
| 26 51 19 00-0429 |     | <b>Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2L)</b> (26 51 19 00-0415)   |           |              |            |
|                  |     | Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.    |           |              |            |
| 26 51 19 00-0430 | EA  | 1,400 Lumens, 25 Watt, Pendant Mount, Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2LC).....   | 1,473.85  |              | 118.07     |
|                  |     | <i>For 12/24 Volt DC Driver, Add</i>  | 30.68     |              |            |
|                  |     | <i>For Frosted Lens, Add</i>  | 62.70     |              |            |
|                  |     | <i>For 55 Degree Ambient Suitability (AC Only), Add</i>   | 41.77     |              |            |
|                  |     | <i>For Warm White Color Rendering, Add</i>  | 80.71     |              |            |
|                  |     | <i>For Ceiling Mount, Add</i>   | 95.31     |              |            |
|                  |     | <i>For Wall Mount, Add</i>  | 138.23    |              |            |
|                  |     | <i>For Teflon Coated Lens, Add</i>  | 133.07    |              |            |
|                  |     | <i>For Wall Mount With Junction Box, Add</i>  | 200.80    |              |            |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -41.77    |              |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -78.61    |              |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -147.39   |              |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -216.16   |              |            |
| 26 51 19 00-0431 |     | <b>Vaportight, LED Fixtures</b> (26 51 19 00-0414)  |           |              |            |
| 26 51 19 00-0432 |     | <b>General Distribution, Vaportight, LED Fixtures (Metalux)</b> (26 51 19 00-0431)  |           |              |            |

26 Electrical

26 50 Lighting

26 51 Interior Lighting



| MINOR                   |     |   | TOTAL DIRECT | DEMOLITION |
|-------------------------|-----|---|--------------|------------|
| CSI                     | UOM | DESCRIPTION   | UNIT COST    | UNIT COST  |
| 26 51 19 00-0433        | EA  | 2', 2,000 Lumens, 16 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-G-UNV-L850-CD1-U).....        | 367.29       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -11.99       |            |
|                         |     | For>100 To 250, Deduct  | -21.18       |            |
|                         |     | For>250 To 500, Deduct  | -36.73       |            |
|                         |     | For>500, Deduct   | -52.28       |            |
| 26 51 19 00-0434        | EA  | 2', 3,000 Lumens, 24 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-G-UNV-L850-CD1-U).....        | 382.64       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -12.38       |            |
|                         |     | For>100 To 250, Deduct  | -21.94       |            |
|                         |     | For>250 To 500, Deduct  | -38.26       |            |
|                         |     | For>500, Deduct   | -54.58       |            |
| 26 51 19 00-0435        | EA  | 2', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-G-UNV-L850-CD1-U).....        | 413.35       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -13.15       |            |
|                         |     | For>100 To 250, Deduct  | -23.48       |            |
|                         |     | For>250 To 500, Deduct  | -41.34       |            |
|                         |     | For>500, Deduct   | -59.19       |            |
| 26 51 19 00-0436        | EA  | 4', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-G-UNV-L850-CD1-U).....        | 374.26       | 84.33      |
|                         |     | For>50 To 100, Deduct   | -12.87       |            |
|                         |     | For>100 To 250, Deduct  | -22.23       |            |
|                         |     | For>250 To 500, Deduct  | -37.43       |            |
|                         |     | For>500, Deduct   | -52.63       |            |
| 26 51 19 00-0437        | EA  | 4', 6,000 Lumens, 51 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-G-UNV-L850-CD1-U).....        | 418.30       | 84.33      |
|                         |     | For>50 To 100, Deduct   | -13.97       |            |
|                         |     | For>100 To 250, Deduct  | -24.43       |            |
|                         |     | For>250 To 500, Deduct  | -41.83       |            |
|                         |     | For>500, Deduct   | -59.23       |            |
| 26 51 19 00-0438        | EA  | 4', 8,000 Lumens, 67 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-G-UNV-L850-CD1-U).....        | 579.62       | 84.33      |
|                         |     | For>50 To 100, Deduct   | -18.00       |            |
|                         |     | For>100 To 250, Deduct  | -32.49       |            |
|                         |     | For>250 To 500, Deduct  | -57.96       |            |
|                         |     | For>500, Deduct   | -83.43       |            |
| <b>26 51 19 00-0439</b> |     | <b>Wide Distribution, Vaportight, LED Fixtures (Metalux) <small>(26 51 19 00-0431)</small></b>  |              |            |
| 26 51 19 00-0440        | EA  | 2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-W-UNV-L850-CD1-U).....           | 398.00       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -12.76       |            |
|                         |     | For>100 To 250, Deduct  | -22.71       |            |
|                         |     | For>250 To 500, Deduct  | -39.80       |            |
|                         |     | For>500, Deduct   | -56.89       |            |
| 26 51 19 00-0441        | EA  | 2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-W-UNV-L850-CD1-U).....           | 413.35       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -13.15       |            |
|                         |     | For>100 To 250, Deduct  | -23.48       |            |
|                         |     | For>250 To 500, Deduct  | -41.34       |            |
|                         |     | For>500, Deduct   | -59.19       |            |
| 26 51 19 00-0442        | EA  | 2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-W-UNV-L850-CD1-U).....           | 444.05       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -13.97       |            |
|                         |     | For>100 To 250, Deduct  | -25.01       |            |
|                         |     | For>250 To 500, Deduct  | -44.41       |            |
|                         |     | For>500, Deduct   | -63.80       |            |
| 26 51 19 00-0443        | EA  | 4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-W-UNV-L850-CD1-U).....           | 518.21       | 84.33      |
|                         |     | For>50 To 100, Deduct   | -16.47       |            |
|                         |     | For>100 To 250, Deduct  | -29.42       |            |
|                         |     | For>250 To 500, Deduct  | -51.82       |            |
|                         |     | For>500, Deduct   | -74.22       |            |
| 26 51 19 00-0444        | EA  | 4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-W-UNV-L850-CD1-U).....           | 579.62       | 84.33      |
|                         |     | For>50 To 100, Deduct   | -18.00       |            |
|                         |     | For>100 To 250, Deduct  | -32.49       |            |
|                         |     | For>250 To 500, Deduct  | -57.96       |            |
|                         |     | For>500, Deduct   | -83.43       |            |
| 26 51 19 00-0445        | EA  | 4', 8,000 Lumens, 70 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-W-UNV-L850-CD1-U).....           | 641.03       | 84.33      |
|                         |     | For>50 To 100, Deduct   | -19.54       |            |
|                         |     | For>100 To 250, Deduct  | -35.57       |            |
|                         |     | For>250 To 500, Deduct  | -64.10       |            |
|                         |     | For>500, Deduct   | -92.64       |            |
| <b>26 51 19 00-0446</b> |     | <b>Parking Garage Distribution, Vaportight, LED Fixtures (Metalux) <small>(26 51 19 00-0431)</small></b>  |              |            |
| 26 51 19 00-0447        | EA  | 2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-P-UNV-L850-CD1-U)..... | 398.00       | 67.47      |
|                         |     | For>50 To 100, Deduct   | -12.76       |            |
|                         |     | For>100 To 250, Deduct  | -22.71       |            |
|                         |     | For>250 To 500, Deduct  | -39.80       |            |
|                         |     | For>500, Deduct   | -56.89       |            |



|                          |              |
|--------------------------|--------------|
| <b>Electrical</b>        | <b>26</b>    |
| <b>Lighting</b>          | <b>26 50</b> |
| <b>Interior Lighting</b> | <b>26 51</b> |

| MINOR            |     |   | TOTAL DIRECT | DEMOLITION |
|------------------|-----|---|--------------|------------|
| CSI              | UOM | DESCRIPTION   | UNIT COST    | UNIT COST  |
| 26 51 19 00-0448 | EA  | 2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-P-UNV-L850-CD1-U)..... | 414.52       | 67.47      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -13.17       |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -23.54       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -41.45       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -59.37       |            |
| 26 51 19 00-0449 | EA  | 2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-P-UNV-L850-CD1-U)..... | 444.05       | 67.47      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -13.91       |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -25.01       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -44.41       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -63.80       |            |
| 26 51 19 00-0450 | EA  | 4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-P-UNV-L850-CD1-U)..... | 518.21       | 84.33      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -16.47       |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -29.42       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -51.82       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -74.22       |            |
| 26 51 19 00-0451 | EA  | 4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-P-UNV-L850-CD1-U)..... | 579.62       | 84.33      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -18.00       |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -32.49       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -57.96       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -83.43       |            |
| 26 51 19 00-0452 | EA  | 4', 8,000 Lumens, 69 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-P-UNV-L850-CD1-U)..... | 641.03       | 84.33      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -19.54       |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -35.57       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -64.10       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -92.64       |            |
| <br>             |     |   |              |            |
| 26 51 19 00-0453 |     | Ceiling Mounted LED Fixtures <small>(26 51 19 00-0001)</small>  |              |            |
| 26 51 19 00-0454 |     | Ceiling Mounted, LED Drum Fixtures (Enertron) <small>(26 51 19 00-0453)</small>   |              |            |
| 26 51 19 00-0455 | EA  | 11" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X611-30).....   | 142.02       | 56.22      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -5.66        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -9.21        |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -14.20       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -19.19       |            |
| 26 51 19 00-0456 | EA  | 11" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X611-30).....  | 147.74       | 56.22      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -5.80        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -9.50        |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -14.77       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -20.05       |            |
| 26 51 19 00-0457 | EA  | 11" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X611-30).....  | 153.47       | 56.22      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -5.95        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -9.78        |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -15.35       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -20.91       |            |
| 26 51 19 00-0458 | EA  | 11" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X611-30).....  | 159.20       | 56.22      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -6.09        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -10.07       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -15.92       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -21.77       |            |
| 26 51 19 00-0459 | EA  | 14" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X614-30).....   | 156.39       | 61.84      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -6.23        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -10.14       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -15.64       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -21.14       |            |
| 26 51 19 00-0460 | EA  | 14" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X614-30).....  | 162.12       | 61.84      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -6.37        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -10.43       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -16.21       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -22.00       |            |
| 26 51 19 00-0461 | EA  | 14" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X614-30).....  | 167.85       | 61.84      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -6.52        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -10.71       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -16.79       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -22.86       |            |
| 26 51 19 00-0462 | EA  | 14" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X614-30).....  | 173.57       | 61.84      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -6.66        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -11.00       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -17.36       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -23.72       |            |
| 26 51 19 00-0463 | EA  | 14" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X614-30).....  | 185.03       | 61.84      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -6.95        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -11.57       |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -18.50       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -25.44       |            |
| 26 51 19 00-0464 | EA  | 11" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X611-35).....   | 142.02       | 56.22      |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -5.66        |            |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -9.21        |            |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -14.20       |            |
|                  |     | <i>For &gt;500, Deduct</i>  | -19.19       |            |

|    |           |                   |
|----|-----------|-------------------|
| 26 | <b>26</b> | <b>Electrical</b> |
|    | 26 50     | Lighting          |
|    | 26 51     | Interior Lighting |



| MINOR            | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|--|------------------------|----------------------|
| 26 51 19 00-0465 | EA 11" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X611-35) | 147.74                 | 56.22                |
|                  | For>50 To 100, Deduct  | -5.80                  |                      |
|                  | For>100 To 250, Deduct   | -9.50                  |                      |
|                  | For>250 To 500, Deduct   | -14.77                 |                      |
|                  | For>500, Deduct  | -20.05                 |                      |
| 26 51 19 00-0466 | EA 11" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X611-35) | 153.47                 | 56.22                |
|                  | For>50 To 100, Deduct  | -5.95                  |                      |
|                  | For>100 To 250, Deduct   | -9.78                  |                      |
|                  | For>250 To 500, Deduct   | -15.35                 |                      |
|                  | For>500, Deduct  | -20.91                 |                      |
| 26 51 19 00-0467 | EA 11" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X611-35) | 159.20                 | 56.22                |
|                  | For>50 To 100, Deduct  | -6.09                  |                      |
|                  | For>100 To 250, Deduct   | -10.07                 |                      |
|                  | For>250 To 500, Deduct   | -15.92                 |                      |
|                  | For>500, Deduct  | -21.77                 |                      |
| 26 51 19 00-0468 | EA 14" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X614-35)    | 156.39                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.23                  |                      |
|                  | For>100 To 250, Deduct   | -10.14                 |                      |
|                  | For>250 To 500, Deduct   | -15.64                 |                      |
|                  | For>500, Deduct  | -21.14                 |                      |
| 26 51 19 00-0469 | EA 14" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X614-35) | 162.12                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.37                  |                      |
|                  | For>100 To 250, Deduct   | -10.43                 |                      |
|                  | For>250 To 500, Deduct   | -16.21                 |                      |
|                  | For>500, Deduct  | -22.00                 |                      |
| 26 51 19 00-0470 | EA 14" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X614-35) | 167.85                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.52                  |                      |
|                  | For>100 To 250, Deduct   | -10.71                 |                      |
|                  | For>250 To 500, Deduct   | -16.79                 |                      |
|                  | For>500, Deduct  | -22.86                 |                      |
| 26 51 19 00-0471 | EA 14" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X614-35) | 173.57                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.66                  |                      |
|                  | For>100 To 250, Deduct   | -11.00                 |                      |
|                  | For>250 To 500, Deduct   | -17.36                 |                      |
|                  | For>500, Deduct  | -23.72                 |                      |
| 26 51 19 00-0472 | EA 14" Diameter, 3,180 Lumens, 24 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED6X614-30) | 185.03                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.95                  |                      |
|                  | For>100 To 250, Deduct   | -11.57                 |                      |
|                  | For>250 To 500, Deduct   | -18.50                 |                      |
|                  | For>500, Deduct  | -25.44                 |                      |
| 26 51 19 00-0473 | EA 11" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X611-40)    | 142.02                 | 56.22                |
|                  | For>50 To 100, Deduct  | -5.66                  |                      |
|                  | For>100 To 250, Deduct   | -9.21                  |                      |
|                  | For>250 To 500, Deduct   | -14.20                 |                      |
|                  | For>500, Deduct  | -19.19                 |                      |
| 26 51 19 00-0474 | EA 11" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X611-40) | 147.74                 | 56.22                |
|                  | For>50 To 100, Deduct  | -5.80                  |                      |
|                  | For>100 To 250, Deduct   | -9.50                  |                      |
|                  | For>250 To 500, Deduct   | -14.77                 |                      |
|                  | For>500, Deduct  | -20.05                 |                      |
| 26 51 19 00-0475 | EA 11" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X611-40) | 153.47                 | 56.22                |
|                  | For>50 To 100, Deduct  | -5.95                  |                      |
|                  | For>100 To 250, Deduct   | -9.78                  |                      |
|                  | For>250 To 500, Deduct   | -15.35                 |                      |
|                  | For>500, Deduct  | -20.91                 |                      |
| 26 51 19 00-0476 | EA 11" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X611-40) | 159.20                 | 56.22                |
|                  | For>50 To 100, Deduct  | -6.09                  |                      |
|                  | For>100 To 250, Deduct   | -10.07                 |                      |
|                  | For>250 To 500, Deduct   | -15.92                 |                      |
|                  | For>500, Deduct  | -21.77                 |                      |
| 26 51 19 00-0477 | EA 14" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)    | 156.39                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.23                  |                      |
|                  | For>100 To 250, Deduct   | -10.14                 |                      |
|                  | For>250 To 500, Deduct   | -15.64                 |                      |
|                  | For>500, Deduct  | -21.14                 |                      |
| 26 51 19 00-0478 | EA 14" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40) | 162.12                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.37                  |                      |
|                  | For>100 To 250, Deduct   | -10.43                 |                      |
|                  | For>250 To 500, Deduct   | -16.21                 |                      |
|                  | For>500, Deduct  | -22.00                 |                      |
| 26 51 19 00-0479 | EA 14" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40) | 167.85                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.52                  |                      |
|                  | For>100 To 250, Deduct   | -10.71                 |                      |
|                  | For>250 To 500, Deduct   | -16.79                 |                      |
|                  | For>500, Deduct  | -22.86                 |                      |
| 26 51 19 00-0480 | EA 14" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40) | 173.57                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.66                  |                      |
|                  | For>100 To 250, Deduct   | -11.00                 |                      |
|                  | For>250 To 500, Deduct   | -17.36                 |                      |
|                  | For>500, Deduct  | -23.72                 |                      |
| 26 51 19 00-0481 | EA 14" Diameter, 3,300 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40) | 185.03                 | 61.84                |
|                  | For>50 To 100, Deduct  | -6.95                  |                      |
|                  | For>100 To 250, Deduct   | -11.57                 |                      |
|                  | For>250 To 500, Deduct   | -18.50                 |                      |
|                  | For>500, Deduct  | -25.44                 |                      |



|    |       |                   |
|----|-------|-------------------|
| 26 | 26    | Electrical        |
|    | 26 50 | Lighting          |
|    | 26 51 | Interior Lighting |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 51 19 00-0499 EA 19" Diameter, 4,240 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-30)..... | 225.52                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -8.17                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.81                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -22.55                    |                         |
| <i>For&gt;500, Deduct</i>  | -31.30                    |                         |
| 26 51 19 00-0500 EA 19" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12S19-35)..... | 192.35                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.34                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.15                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -19.24                    |                         |
| <i>For&gt;500, Deduct</i>  | -26.32                    |                         |
| 26 51 19 00-0501 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X619-35).....   | 205.37                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.66                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.80                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -20.54                    |                         |
| <i>For&gt;500, Deduct</i>  | -28.28                    |                         |
| 26 51 19 00-0502 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)..... | 202.19                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.58                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.64                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -20.22                    |                         |
| <i>For&gt;500, Deduct</i>  | -27.80                    |                         |
| 26 51 19 00-0503 EA 19" Diameter, 1,910 Lumens, 18 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12H19-35)..... | 202.14                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.58                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.64                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -20.21                    |                         |
| <i>For&gt;500, Deduct</i>  | -27.79                    |                         |
| 26 51 19 00-0504 EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....   | 216.82                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.95                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.37                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -21.68                    |                         |
| <i>For&gt;500, Deduct</i>  | -29.99                    |                         |
| 26 51 19 00-0505 EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)..... | 212.08                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.83                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.13                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -21.21                    |                         |
| <i>For&gt;500, Deduct</i>  | -29.28                    |                         |
| 26 51 19 00-0506 EA 19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....   | 231.92                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -8.33                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -14.13                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -23.19                    |                         |
| <i>For&gt;500, Deduct</i>  | -32.26                    |                         |
| 26 51 19 00-0507 EA 19" Diameter, 3,820 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12H19-35)..... | 225.46                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -8.17                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.80                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -22.55                    |                         |
| <i>For&gt;500, Deduct</i>  | -31.29                    |                         |
| 26 51 19 00-0508 EA 19" Diameter, 4,240 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X12S19-35)..... | 225.52                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -8.17                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.81                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -22.55                    |                         |
| <i>For&gt;500, Deduct</i>  | -31.30                    |                         |
| 26 51 19 00-0509 EA 19" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-40)..... | 192.35                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.34                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.15                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -19.24                    |                         |
| <i>For&gt;500, Deduct</i>  | -26.32                    |                         |
| 26 51 19 00-0510 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)..... | 205.37                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.66                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.80                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -20.54                    |                         |
| <i>For&gt;500, Deduct</i>  | -28.28                    |                         |
| 26 51 19 00-0511 EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)..... | 202.19                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.58                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.64                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -20.22                    |                         |
| <i>For&gt;500, Deduct</i>  | -27.80                    |                         |
| 26 51 19 00-0512 EA 19" Diameter, 2,000 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-40)..... | 202.14                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.58                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -12.64                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -20.21                    |                         |
| <i>For&gt;500, Deduct</i>  | -27.79                    |                         |
| 26 51 19 00-0513 EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....   | 216.82                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.95                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.37                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -21.68                    |                         |
| <i>For&gt;500, Deduct</i>  | -29.99                    |                         |
| 26 51 19 00-0514 EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)..... | 212.08                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -7.83                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -13.13                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -21.21                    |                         |
| <i>For&gt;500, Deduct</i>  | -29.28                    |                         |
| 26 51 19 00-0515 EA 19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....   | 231.92                    | 66.76                   |
| <i>For&gt;50 To 100, Deduct</i>  | -8.33                     |                         |
| <i>For&gt;100 To 250, Deduct</i>   | -14.13                    |                         |
| <i>For&gt;250 To 500, Deduct</i>   | -23.19                    |                         |
| <i>For&gt;500, Deduct</i>  | -32.26                    |                         |





**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR            |  | TOTAL DIRECT | DEMOLITION |
|------------------|--|--------------|------------|
| CSI              | UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 26 51 19 00-0533 | EA 2' x 4', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/24G/WH + SMK1T1A/24A/WH)..... | 360.61       | 65.50      |
|                  | For >50 To 100, Deduct   | -11.48       |            |
|                  | For >100 To 250, Deduct  | -20.49       |            |
|                  | For >250 To 500, Deduct  | -36.06       |            |
|                  | For >500, Deduct   | -51.63       |            |
| 26 51 19 00-0534 | Refrigeration/Display LED Fixtures (26 51 19 00-0001)  |              |            |
| 26 51 19 00-0535 | Refrigeration/Display LED Fixtures (Lithonia) (26 51 19 00-0534)<br>Note: Fixtures exclude driver.   |              |            |
| 26 51 19 00-0536 | EA 5' Length, Center Mount, Refrigeration/Display, Vertical LED Fixture (Lithonia FSV5 CM).....  | 299.65       | 65.50      |
|                  | For >50 To 100, Deduct   | -9.95        |            |
|                  | For >100 To 250, Deduct  | -17.44       |            |
|                  | For >250 To 500, Deduct  | -29.97       |            |
|                  | For >500, Deduct   | -42.49       |            |
| 26 51 19 00-0537 | EA 5' Length, Left And Right Mount (Pair), Refrigeration/Display, Vertical LED Fixture (Lithonia FSDRVL RLEM DLC).....   | 402.62       | 115.95     |
|                  | For >50 To 100, Deduct   | -14.46       |            |
|                  | For >100 To 250, Deduct  | -24.52       |            |
|                  | For >250 To 500, Deduct  | -40.26       |            |
|                  | For >500, Deduct   | -56.00       |            |
| 26 51 19 00-0538 | EA Up To 5 Door Configuration, LED Driver For Refrigeration/Display, Vertical LED Fixtures (Lithonia FSDRVL).....  | 363.66       | 92.77      |
|                  | For >50 To 100, Deduct   | -12.61       |            |
|                  | For >100 To 250, Deduct  | -21.70       |            |
|                  | For >250 To 500, Deduct  | -36.37       |            |
|                  | For >500, Deduct   | -51.04       |            |
| 26 51 19 00-0539 | Pendant Mount, LED Fixtures (26 51 19 00-0001)   |              |            |
| 26 51 19 00-0540 | Pendant Mount, Circular Architectural LED Fixtures (Delray Lighting) (26 51 19 00-0539)  |              |            |
| 26 51 19 00-0541 | EA 2,166 Lumens, 2' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 W W35 S).....                                       | 2,630.57     | 143.37     |
|                  | For >50 To 100, Deduct   | -71.74       |            |
|                  | For >100 To 250, Deduct  | -137.50      |            |
|                  | For >250 To 500, Deduct  | -263.06      |            |
|                  | For >500, Deduct   | -388.61      |            |
| 26 51 19 00-0542 | EA 3,250 Lumens, 3' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 W W35 S).....                                       | 3,952.18     | 151.79     |
|                  | For >50 To 100, Deduct   | -105.13      |            |
|                  | For >100 To 250, Deduct  | -203.93      |            |
|                  | For >250 To 500, Deduct  | -395.22      |            |
|                  | For >500, Deduct   | -586.50      |            |
| 26 51 19 00-0543 | EA 4,333 Lumens, 4' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 W W35 S).....                                       | 5,036.58     | 160.23     |
|                  | For >50 To 100, Deduct   | -132.59      |            |
|                  | For >100 To 250, Deduct  | -258.51      |            |
|                  | For >250 To 500, Deduct  | -503.66      |            |
|                  | For >500, Deduct   | -748.81      |            |
| 26 51 19 00-0544 | EA 5,416 Lumens, 5' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 W W35 S).....                                       | 6,358.18     | 168.66     |
|                  | For >50 To 100, Deduct   | -165.98      |            |
|                  | For >100 To 250, Deduct  | -324.94      |            |
|                  | For >250 To 500, Deduct  | -635.82      |            |
|                  | For >500, Deduct   | -946.70      |            |
| 26 51 19 00-0545 | EA 2,166 Lumens, 2' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 S W35 S).....                                      | 2,787.40     | 143.37     |
|                  | For >50 To 100, Deduct   | -75.66       |            |
|                  | For >100 To 250, Deduct  | -145.34      |            |
|                  | For >250 To 500, Deduct  | -278.74      |            |
|                  | For >500, Deduct   | -412.14      |            |
| 26 51 19 00-0546 | EA 3,250 Lumens, 3' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 S W35 S).....                                      | 4,159.98     | 151.79     |
|                  | For >50 To 100, Deduct   | -110.32      |            |
|                  | For >100 To 250, Deduct  | -214.32      |            |
|                  | For >250 To 500, Deduct  | -416.00      |            |
|                  | For >500, Deduct   | -617.67      |            |
| 26 51 19 00-0547 | EA 4,333 Lumens, 4' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 S W35 S).....                                      | 5,246.34     | 160.23     |
|                  | For >50 To 100, Deduct   | -137.83      |            |
|                  | For >100 To 250, Deduct  | -268.99      |            |
|                  | For >250 To 500, Deduct  | -524.63      |            |
|                  | For >500, Deduct   | -780.27      |            |
| 26 51 19 00-0548 | EA 5,416 Lumens, 5' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 S W35 S).....                                      | 6,593.43     | 168.66     |
|                  | For >50 To 100, Deduct   | -171.86      |            |
|                  | For >100 To 250, Deduct  | -336.70      |            |
|                  | For >250 To 500, Deduct  | -659.34      |            |
|                  | For >500, Deduct   | -981.99      |            |
| 26 51 19 00-0549 | Pendant Mount, LED Commercial Fixtures (DMF) (26 51 19 00-0539)  |              |            |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 26 51 19 00-0550        | EA  |     | 3,000 Lumens, 18-1/4" Diameter, Pendant Mount, LED Commercial Fixture (DMF DP610LED).....   | 1,028.59               | 84.33                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -29.23                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -54.94                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -102.86                |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -150.77                |                      |
| <b>26 51 19 00-0551</b> |     |     | <b>LED Track Lighting Fixtures</b> <small>(26 51 19)</small>  |                        |                      |
| 26 51 19 00-0552        | EA  |     | 19 Watt, Dimmable, LED Track Lighting Fixture (Juno® TRAC-MASTER® Cylindra™).....   | 204.73                 | 25.68                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -6.08                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -11.20                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -20.47                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -29.75                 |                      |
| 26 51 19 00-0553        | EA  |     | 18 Watt, Dimmable, LED Track Lighting Fixture (HALO® Stasis L805MED).....   | 349.53                 | 25.68                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -9.70                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -18.44                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -34.95                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -51.47                 |                      |
| 26 51 19 00-0554        | EA  |     | 24 Watt, Dimmable, LED Track Lighting Fixture (Amerlux CNTRV33).....  | 210.23                 | 25.68                |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>  | -6.22                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>   | -11.47                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>   | -21.02                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>  | -30.57                 |                      |
| <b>26 51 23</b>         |     |     | <b>HID Interior Lighting</b> <small>(26 51)</small>   |                        |                      |
| 26 51 23 00-0001        |     |     | Large Interior Area Fixtures <small>(26 51 23)</small>  |                        |                      |
| 26 51 23 00-0002        |     |     | Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small>  |                        |                      |
|                         |     |     | Note: Cast aluminum socket housing, anodized aluminum reflector, tempered glass or acrylic lens, plaster mounting frames and brackets.  |                        |                      |
| 26 51 23 00-0003        |     |     | High Pressure Sodium, Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0002)</small>                                  |                        |                      |
| 26 51 23 00-0004        | EA  |     | 150 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture.....   | 528.53                 | 163.98               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
| 26 51 23 00-0005        | EA  |     | 250 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture.....   | 551.49                 | 174.12               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
| 26 51 23 00-0006        | EA  |     | 400 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture.....   | 582.30                 | 198.74               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
| 26 51 23 00-0007        |     |     | Metal Halide, Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0002)</small>  |                        |                      |
| 26 51 23 00-0008        | EA  |     | 150 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture.....   | 537.15                 | 163.98               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
| 26 51 23 00-0009        | EA  |     | 250 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture.....   | 555.17                 | 174.12               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
| 26 51 23 00-0010        | EA  |     | 400 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture.....   | 594.72                 | 198.74               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
| 26 51 23 00-0011        |     |     | Low Bay Fixtures, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small>  |                        |                      |
|                         |     |     | Note: Heavy duty steel housing, aluminum reflector, tempered glass or acrylic lens. Low bay fixtures are for mounting below 20-25 feet. |                        |                      |
| 26 51 23 00-0012        |     |     | High Pressure Sodium, Low Bay Fixtures <small>(26 51 23 00-0011)</small>  |                        |                      |
| 26 51 23 00-0013        | EA  |     | 150 Watt High Pressure Sodium, Low Bay Fixture.....   | 468.63                 | 149.83               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Enclosed And Gasketed, Add</i>   | 75.47                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>  | 90.00                  |                      |
| 26 51 23 00-0014        | EA  |     | 250 Watt High Pressure Sodium, Low Bay Fixture.....   | 484.01                 | 159.11               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Enclosed And Gasketed, Add</i>   | 75.47                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>  | 90.00                  |                      |
| 26 51 23 00-0015        | EA  |     | 400 Watt High Pressure Sodium, Low Bay Fixture.....   | 518.97                 | 181.59               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Enclosed And Gasketed, Add</i>   | 75.47                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>  | 90.00                  |                      |
| 26 51 23 00-0016        |     |     | Metal Halide, Low Bay Fixtures <small>(26 51 23 00-0011)</small>  |                        |                      |
| 26 51 23 00-0017        | EA  |     | 175 Watt Metal Halide, Low Bay Fixture.....   | 461.50                 | 149.83               |
|                         |     |     | <i>For Wire Guard, Add</i>  | 40.50                  |                      |
|                         |     |     | <i>For Enclosed And Gasketed, Add</i>   | 75.47                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>   | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>  | 90.00                  |                      |

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 51 23 00-0018        | EA  |     | 250 Watt Metal Halide, Low Bay Fixture .....   | 476.05                 | 159.11               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Enclosed And Gasketed, Add</i>  | 75.47                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
| 26 51 23 00-0019        | EA  |     | 400 Watt Metal Halide, Low Bay Fixture .....   | 521.98                 | 181.59               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Enclosed And Gasketed, Add</i>  | 75.47                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
| <b>26 51 23 00-0020</b> |     |     | <b>High Bay Fixtures, Large Interior Area Fixtures</b> <small>(26 51 23 00-0001)</small>               |                        |                      |
|                         |     |     | Note: High bay fixtures are for mounting above 20-25 feet. See CSI section 01 22 23 00-0001 for lifts. |                        |                      |
| <b>26 51 23 00-0021</b> |     |     | <b>High Pressure Sodium, High Bay Fixtures</b> <small>(26 51 23 00-0020)</small>                       |                        |                      |
|                         |     |     | Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.                         |                        |                      |
| 26 51 23 00-0022        | EA  |     | 250 Watt High Pressure Sodium, High Bay Fixture .....  | 442.78                 | 159.11               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
|                         |     |     | <i>For Tempered Glass Or Acrylic Lens, Add</i>   | 60.50                  |                      |
|                         |     |     | <i>For Polycarbonate Lens, Add</i>   | 47.75                  |                      |
|                         |     |     | <i>For Security Chain, Add</i>   | 19.34                  |                      |
|                         |     |     | <i>For Optical Safety Chain, Add</i>   | 7.47                   |                      |
|                         |     |     | <i>For Ballast Safety Chain, Add</i>   | 12.13                  |                      |
| 26 51 23 00-0023        | EA  |     | 400 Watt High Pressure Sodium, High Bay Fixture .....  | 482.09                 | 181.59               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
|                         |     |     | <i>For Tempered Glass Or Acrylic Lens, Add</i>   | 60.50                  |                      |
|                         |     |     | <i>For Polycarbonate Lens, Add</i>   | 47.75                  |                      |
|                         |     |     | <i>For Security Chain, Add</i>   | 19.34                  |                      |
|                         |     |     | <i>For Optical Safety Chain, Add</i>   | 7.47                   |                      |
|                         |     |     | <i>For Ballast Safety Chain, Add</i>   | 12.13                  |                      |
| 26 51 23 00-0024        | EA  |     | 1,000 Watt High Pressure Sodium, High Bay Fixture .....  | 672.59                 | 191.01               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
|                         |     |     | <i>For Tempered Glass Or Acrylic Lens, Add</i>   | 60.50                  |                      |
|                         |     |     | <i>For Polycarbonate Lens, Add</i>   | 47.75                  |                      |
|                         |     |     | <i>For Security Chain, Add</i>   | 19.34                  |                      |
|                         |     |     | <i>For Optical Safety Chain, Add</i>   | 7.47                   |                      |
|                         |     |     | <i>For Ballast Safety Chain, Add</i>   | 12.13                  |                      |
| <b>26 51 23 00-0025</b> |     |     | <b>Metal Halide, High Bay Fixtures</b> <small>(26 51 23 00-0020)</small>                               |                        |                      |
|                         |     |     | Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.                         |                        |                      |
| 26 51 23 00-0026        | EA  |     | 250 Watt Metal Halide, High Bay Fixture .....  | 415.46                 | 159.11               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
|                         |     |     | <i>For Tempered Glass Or Acrylic Lens, Add</i>   | 60.50                  |                      |
|                         |     |     | <i>For Polycarbonate Lens, Add</i>   | 47.75                  |                      |
|                         |     |     | <i>For Security Chain, Add</i>   | 19.34                  |                      |
|                         |     |     | <i>For Optical Safety Chain, Add</i>   | 7.47                   |                      |
|                         |     |     | <i>For Ballast Safety Chain, Add</i>   | 12.13                  |                      |
| 26 51 23 00-0027        | EA  |     | 400 Watt Metal Halide, High Bay Fixture .....  | 461.22                 | 181.59               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
|                         |     |     | <i>For Tempered Glass Or Acrylic Lens, Add</i>   | 60.50                  |                      |
|                         |     |     | <i>For Polycarbonate Lens, Add</i>   | 47.75                  |                      |
|                         |     |     | <i>For Security Chain, Add</i>   | 19.34                  |                      |
|                         |     |     | <i>For Optical Safety Chain, Add</i>   | 7.47                   |                      |
|                         |     |     | <i>For Ballast Safety Chain, Add</i>   | 12.13                  |                      |
| 26 51 23 00-0028        | EA  |     | 1,000 Watt Metal Halide, High Bay Fixture .....  | 577.91                 | 191.01               |
|                         |     |     | <i>For Wire Guard, Add</i>   | 40.50                  |                      |
|                         |     |     | <i>For Instant Quartz Restrike, Add</i>  | 60.00                  |                      |
|                         |     |     | <i>For Glass Or Acrylic Reflector, Add</i>   | 90.00                  |                      |
|                         |     |     | <i>For Tempered Glass Or Acrylic Lens, Add</i>   | 60.50                  |                      |
|                         |     |     | <i>For Polycarbonate Lens, Add</i>   | 47.75                  |                      |
|                         |     |     | <i>For Security Chain, Add</i>   | 19.34                  |                      |
|                         |     |     | <i>For Optical Safety Chain, Add</i>   | 7.47                   |                      |
|                         |     |     | <i>For Ballast Safety Chain, Add</i>   | 12.13                  |                      |
| <b>26 51 23 00-0029</b> |     |     | <b>Induction, High Bay Fixtures</b> <small>(26 51 23 00-0020)</small>                                  |                        |                      |
| <b>26 51 23 00-0030</b> |     |     | <b>Induction, High Bay Fixtures (Everlast®)</b> <small>(26 51 23 00-0029)</small>                      |                        |                      |
|                         |     |     | Note: Includes die cast aluminum ballast casing and acrylic lens.                                      |                        |                      |
| 26 51 23 00-0031        | EA  |     | 100 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....                                  | 522.65                 | 139.15               |
|                         |     |     | <i>For Impact Resistant Silicon Lens, Add</i>  | 20.00                  |                      |
| 26 51 23 00-0032        | EA  |     | 120 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....                                  | 558.32                 | 143.79               |
|                         |     |     | <i>For Impact Resistant Silicon Lens, Add</i>  | 20.00                  |                      |
| 26 51 23 00-0033        | EA  |     | 150 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....                                  | 569.29                 | 148.42               |
|                         |     |     | <i>For Impact Resistant Silicon Lens, Add</i>  | 20.00                  |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST           | DEMOLITION<br>UNIT COST |
|--|-------------------------------------|-------------------------|
| 26 51 23 00-0034 EA 200 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 616.78<br>20.00                     | 153.06                  |
| 26 51 23 00-0035 EA 250 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 632.71<br>20.00                     | 157.70                  |
| 26 51 23 00-0036 EA 100 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 557.20<br>20.00                     | 139.15                  |
| 26 51 23 00-0037 EA 120 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 592.87<br>20.00                     | 143.79                  |
| 26 51 23 00-0038 EA 150 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 603.84<br>20.00                     | 148.42                  |
| 26 51 23 00-0039 EA 200 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 651.33<br>20.00                     | 153.06                  |
| 26 51 23 00-0040 EA 250 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....<br><i>For Impact Resistant Silicon Lens, Add</i>   | 667.26<br>20.00                     | 157.70                  |
| <b>26 51 23 00-0041 Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0001)</b><br>Note: Heavy duty aluminum housing, aluminum reflector, acrylic drop dish lens, fully gasketed.                           |                                     |                         |
| <b>26 51 23 00-0042 High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)</b>   |                                     |                         |
| 26 51 23 00-0043 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i> | 359.02<br>40.50<br>60.00<br>47.75   | 106.60                  |
| 26 51 23 00-0044 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i> | 705.59<br>40.50<br>60.00<br>47.75   | 106.60                  |
| 26 51 23 00-0045 EA 250 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i> | 808.73<br>40.50<br>60.00<br>47.75   | 106.60                  |
| 26 51 23 00-0046 EA 400 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i> | 1,076.42<br>40.50<br>60.00<br>47.75 | 106.60                  |
| <b>26 51 23 00-0047 Metal Halide, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)</b>   |                                     |                         |
| 26 51 23 00-0048 EA 100 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i>         | 344.58<br>40.50<br>60.00<br>47.75   | 106.60                  |
| 26 51 23 00-0049 EA 175 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i>         | 364.40<br>40.50<br>60.00<br>47.75   | 118.29                  |
| 26 51 23 00-0050 EA 250 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i>         | 388.47<br>40.50<br>60.00<br>47.75   | 128.13                  |
| 26 51 23 00-0051 EA 400 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture .....<br><i>For Wire Guard, Add</i><br><i>For Instant Quartz Restrike, Add</i><br><i>For Polycarbonate Lens, Add</i>         | 438.61<br>40.50<br>60.00<br>47.75   | 152.59                  |
| <b>26 51 23 00-0052 High Pressure Sodium, Recessed Fixture Housings (26 51 23)</b>   |                                     |                         |
| 26 51 23 00-0053 EA 4" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing .....<br><i>For ICAT Housing, Add</i>  | 179.05<br>14.56                     | 44.30                   |
| 26 51 23 00-0054 EA 5" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing .....<br><i>For ICAT Housing, Add</i>  | 186.59<br>15.54                     | 44.30                   |
| 26 51 23 00-0055 EA 6" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing .....<br><i>For ICAT Housing, Add</i>  | 195.94<br>16.35                     | 46.15                   |
| 26 51 23 00-0056 EA 7" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing .....<br><i>For ICAT Housing, Add</i>  | 203.13<br>16.88                     | 48.14                   |
| 26 51 23 00-0057 EA 8" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing .....<br><i>For ICAT Housing, Add</i>  | 210.25<br>17.40                     | 50.15                   |
| 26 51 23 00-0058 EA 10" To 12" Square, High Pressure Sodium, T Or ICT Recessed Fixture Housing .....<br><i>For ICAT Housing, Add</i>   | 216.87<br>17.66                     | 53.22                   |
| <b>26 51 23 00-0059 Metal Halide Track Lighting Fixtures (26 51 23)</b>  |                                     |                         |
| 26 51 23 00-0060 EA Metal Halide Track Lighting Fixture .....  | 115.74                              | 25.68                   |
| <b>26 51 23 00-0061 Metal Halide, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)</b>   |                                     |                         |
| 26 51 23 00-0062 EA 75 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture .....<br><i>For Wall Mounted, Add</i>  | 190.82<br>6.30                      | 61.53                   |
| 26 51 23 00-0063 EA 100 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture .....<br><i>For Wall Mounted, Add</i>   | 195.86<br>6.30                      | 61.53                   |

**26 Electrical****26 50 Lighting****26 51 Interior Lighting**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 51 23 00-0064 EA 150 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture .....<br><i>For Wall Mounted, Add</i>           | 206.10<br>6.30            | 61.53                   |
| 26 51 23 00-0065 EA 175 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture .....<br><i>For Wall Mounted, Add</i>           | 221.49<br>6.30            | 61.53                   |
| <b>26 51 23 00-0066 High Pressure Sodium, Wet Location, Dust Resistant, Cast Metal Guard,<br/>Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)</b>                 |                           |                         |
| 26 51 23 00-0067 EA 70 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture .....<br><i>For Wall Mounted, Add</i>    | 178.83<br>6.67            | 61.53                   |
| 26 51 23 00-0068 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight<br>Fixture.....<br><i>For Wall Mounted, Add</i> | 185.08<br>6.67            | 61.53                   |
| 26 51 23 00-0069 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight<br>Fixture.....<br><i>For Wall Mounted, Add</i> | 209.29<br>6.67            | 61.53                   |
| <b>26 51 33 Interior Lighting Accessories (26 51)</b>  |                           |                         |
| <b>26 51 33 00-0001 Accessories And Modifiers For Fixtures (26 51 33)</b>  |                           |                         |
| <b>26 51 33 00-0002 Lens Modifications (26 51 33 00-0001)</b>  |                           |                         |
| 26 51 33 00-0003 EA For 1' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....   | 37.42                     |                         |
| 26 51 33 00-0004 EA For 1' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....   | 46.22                     |                         |
| 26 51 33 00-0005 EA For 2' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....   | 48.42                     |                         |
| 26 51 33 00-0006 EA For 2' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....   | 52.83                     |                         |
| 26 51 33 00-0007 EA For 4' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....   | 63.83                     |                         |
| 26 51 33 00-0008 EA For 1' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....   | 15.41                     |                         |
| 26 51 33 00-0009 EA For 1' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....   | 22.01                     |                         |
| 26 51 33 00-0010 EA For 2' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....   | 24.21                     |                         |
| 26 51 33 00-0011 EA For 2' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....   | 28.61                     |                         |
| <b>26 51 33 00-0012 Pendant Mounting Modifications (26 51 33 00-0001)</b>  |                           |                         |
| Note: Per pendant. Use demolition cost for associated light fixture for demolition of pendant mounted light fixture<br>assembly.   |                           |                         |
| 26 51 33 00-0013 EA For Pendant Mounting Up to 1'-6" Long Section.....<br>Note: Per pendant.   | 16.73                     |                         |
| 26 51 33 00-0014 EA For Pendant Mounting 2' Long Section.....<br>Note: Per pendant.  | 19.37                     |                         |
| 26 51 33 00-0015 EA For Pendant Mounting 3' Long Section.....<br>Note: Per pendant.  | 24.78                     |                         |
| 26 51 33 00-0016 EA For Pendant Mounting 4' Long Section.....<br>Note: Per pendant.  | 29.27                     |                         |
| 26 51 33 00-0017 EA For Pendant Mounting 6' Long Section.....<br>Note: Per pendant.  | 36.98                     |                         |
| 26 51 33 00-0018 EA For Pendant Mounting 8' Long Section.....<br>Note: Per pendant.  | 50.19                     |                         |
| <b>26 51 33 00-0019 Fluorescent Light Accessories (26 51 33 00-0001)</b>   |                           |                         |
| 26 51 33 00-0020 EA Blank Metal Light Box Plate.....   | 30.98                     |                         |
| 26 51 33 00-0021 EA Factory Installed Fixture Mounted Occupancy Sensor.....  | 169.47                    |                         |
| <b>26 51 33 00-0022 Wire Guards (26 51 33 00-0001)</b>   |                           |                         |
| 26 51 33 00-0023 EA Wire Guard for 6" x 2' Fixture.....  | 74.25                     | 7.70                    |
| 26 51 33 00-0024 EA Wire Guard for 6" x 4' Fixture.....  | 104.67                    | 12.32                   |
| 26 51 33 00-0025 EA Wire Guard for 1" x 2' Fixture.....  | 82.84                     | 8.48                    |
| 26 51 33 00-0026 EA Wire Guard for 1" x 4' Fixture.....  | 117.97                    | 13.09                   |
| 26 51 33 00-0027 EA Wire Guard for 2" x 2' Fixture.....  | 100.87                    | 9.24                    |
| 26 51 33 00-0028 EA Wire Guard for 2" x 4' Fixture.....  | 138.34                    | 13.86                   |
| <b>26 51 33 00-0029 Lighting Accessories (26 51 33)</b>  |                           |                         |
| <b>26 51 33 00-0030 Modular Flexible Wiring Systems (26 51 33 00-0029)</b>   |                           |                         |
| 26 51 33 00-0031 EA 10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10).....  | 108.68                    | 8.30                    |
| 26 51 33 00-0032 EA 15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15).....  | 126.17                    | 8.30                    |
| 26 51 33 00-0033 EA 20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20).....  | 151.77                    | 8.30                    |
| 26 51 33 00-0034 EA 15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15).....   | 126.17                    | 8.30                    |
| 26 51 33 00-0035 EA 3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E).....   | 110.47                    | 8.30                    |
| 26 51 33 00-0036 EA 13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13).....  | 162.02                    | 8.30                    |
| 26 51 33 00-0037 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M).....   | 90.01                     | 8.30                    |
| 26 51 33 00-0038 EA 3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E).....   | 101.41                    | 8.30                    |
| 26 51 33 00-0039 EA 7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07).....   | 128.82                    | 8.30                    |
| 26 51 33 00-0040 EA 7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07).....  | 128.82                    | 8.30                    |
| 26 51 33 00-0041 EA 7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07).....  | 130.97                    | 8.30                    |
| 26 51 33 00-0042 EA 7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07).....  | 130.18                    | 8.30                    |
| 26 51 33 00-0043 EA 7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07).....  | 130.18                    | 8.30                    |
| 26 51 33 00-0044 EA 15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15).....  | 149.36                    | 8.30                    |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Interior Lighting</b> | <b>26 51</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 51 33 00-0045 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D).....   | 69.53                     | 8.30                    |
| 26 51 33 00-0046 EA 3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E).....  | 65.06                     | 8.30                    |
| 26 51 33 00-0047 EA 3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E).....  | 66.62                     | 8.30                    |
| 26 51 33 00-0048 EA 3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E).....   | 83.22                     | 8.30                    |
| 26 51 33 00-0049 EA 15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15).....   | 108.68                    | 8.30                    |
| 26 51 33 00-0050 EA 15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15).....   | 111.38                    | 8.30                    |
| 26 51 33 00-0051 EA Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E).....  | 87.35                     | 8.30                    |
| 26 51 33 00-0052 EA 3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E).....   | 65.06                     | 8.30                    |
| 26 51 33 00-0053 EA Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning .....   | 69.21                     |                         |
| <b>26 51 33 00-0054 Additional Lighting Wire Whips (26 51 33)</b>  |                           |                         |
| 26 51 33 00-0055 LF For Each Additional LF Of Interior Lighting Wire Whip, Add.....  | 1.84                      |                         |
| Note: Wire whips are included with interior lighting fixtures, where necessary, up to six feet in length. Use this task for additional required whip length. For example, if the fixture requires a 15' wire whip then use 9 LF of this task to reach required length. |                           |                         |
| <b>26 51 33 00-0056 Removal And Reinstallation Of Light Fixtures (26 51 33)</b>  |                           |                         |
| Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.   |                           |                         |
| 26 51 33 00-0057 EA Removal And Reinstallation Of Lay-In Fluorescent Light Fixture.....  | 163.74                    |                         |
| 26 51 33 00-0058 EA Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture.....  | 187.14                    |                         |
| <b>26 52 Safety Lighting (26 50)</b>   |                           |                         |
| <b>26 52 13 Emergency and Exit Lighting (26 52)</b>  |                           |                         |
| <b>26 52 13 13 Emergency Lighting (26 52 13)</b>   |                           |                         |
| 26 52 13 13-0001 Commercial Emergency Lights (26 52 13 13)   |                           |                         |
| 26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)   |                           |                         |
| Note: Includes lead-calcium batteries and two adjustable lamp heads.   |                           |                         |
| 26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED) .....  | 261.56                    | 38.46                   |
| 26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2) .....   | 183.96                    | 38.46                   |
| For Halogen Lamps, Add 27.55   |                           |                         |
| For Self-Diagnostics, Add 87.50  |                           |                         |
| 26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618) .....   | 285.52                    | 38.46                   |
| For Halogen Lamps, Add 27.55   |                           |                         |
| For Self-Diagnostics, Add 87.50  |                           |                         |
| 26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627) .....  | 331.50                    | 38.46                   |
| For Halogen Lamps, Add 27.55   |                           |                         |
| For Self-Diagnostics, Add 87.50  |                           |                         |
| 26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654) .....  | 489.51                    | 38.46                   |
| For Halogen Lamps, Add 27.55   |                           |                         |
| For Self-Diagnostics, Add 87.50  |                           |                         |
| 26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254) .....  | 553.65                    | 38.46                   |
| For Halogen Lamps, Add 27.55   |                           |                         |
| For Self-Diagnostics, Add 87.50  |                           |                         |
| 26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272) .....  | 803.55                    | 38.46                   |
| For Halogen Lamps, Add 27.55   |                           |                         |
| For Self-Diagnostics, Add 87.50  |                           |                         |
| <b>26 52 13 13-0010 Remote Heads For Commercial Emergency Lights (26 52 13 13-0001)</b>  |                           |                         |
| Note: For use with fixtures that have remote capability.   |                           |                         |
| 26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....   | 176.25                    | 23.07                   |
| 26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....  | 177.40                    | 23.07                   |
| 26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....  | 181.28                    | 23.07                   |
| 26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....   | 180.65                    | 23.07                   |
| 26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....   | 156.84                    | 23.07                   |
| 26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....  | 109.54                    | 23.07                   |
| <b>26 52 13 13-0017 Industrial Emergency Lights (26 52 13 13)</b>  |                           |                         |
| <b>26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)</b>  |                           |                         |
| <b>26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)</b>  |                           |                         |
| Note: Includes lead-calcium batteries and two adjustable lamp heads.   |                           |                         |
| 26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....  | 454.61                    | 38.46                   |
| For Wireguard, Add 227.25  |                           |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 52 Safety Lighting**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 52 13 13-0021        | EA  |     | 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24).....   | 382.85                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 227.25                 |                      |
| 26 52 13 13-0022        | EA  |     | 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36).....   | 592.58                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 227.25                 |                      |
| 26 52 13 13-0023        | EA  |     | 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....  | 628.78                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 227.25                 |                      |
| 26 52 13 13-0024        | EA  |     | 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....  | 894.22                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 242.04                 |                      |
| 26 52 13 13-0025        | EA  |     | 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....  | 1,402.02               | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 242.04                 |                      |
| <b>26 52 13 13-0026</b> |     |     | <b>Remote Heads For Painted Steel Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0018)</small>   |                        |                      |
|                         |     |     | Note: For use with fixtures that have remote capability.   |                        |                      |
| 26 52 13 13-0027        | EA  |     | 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....  | 136.80                 | 23.07                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 183.40                 |                      |
| 26 52 13 13-0028        | EA  |     | 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....   | 141.31                 | 23.07                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 183.40                 |                      |
| 26 52 13 13-0029        | EA  |     | 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....  | 137.43                 | 23.07                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 183.40                 |                      |
| 26 52 13 13-0030        | EA  |     | 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....  | 138.16                 | 23.07                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 183.40                 |                      |
| 26 52 13 13-0031        | EA  |     | 12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....  | 141.31                 | 23.07                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 183.40                 |                      |
| 26 52 13 13-0032        | EA  |     | 12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....  | 164.18                 | 23.07                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 183.40                 |                      |
| <b>26 52 13 13-0033</b> |     |     | <b>Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0017)</small>  |                        |                      |
| <b>26 52 13 13-0034</b> |     |     | <b>Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0033)</small>  |                        |                      |
|                         |     |     | Note: Includes lead-calcium batteries and two adjustable lamp heads.   |                        |                      |
| 26 52 13 13-0035        | EA  |     | 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618).....  | 448.84                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 105.50                 |                      |
| 26 52 13 13-0036        | EA  |     | 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....                             | 487.14                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 105.50                 |                      |
| 26 52 13 13-0037        | EA  |     | 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....                               | 476.65                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 105.50                 |                      |
| 26 52 13 13-0038        | EA  |     | 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....                             | 503.40                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 105.50                 |                      |
| 26 52 13 13-0039        | EA  |     | 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....                           | 842.28                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 105.50                 |                      |
| 26 52 13 13-0040        | EA  |     | 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....                      | 663.40                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 61.50                  |                      |
| 26 52 13 13-0041        | EA  |     | 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236)..... | 742.09                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 61.50                  |                      |
| 26 52 13 13-0042        | EA  |     | 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254)..... | 781.96                 | 38.46                |
|                         |     |     | <i>For Wireguard, Add</i> .....  | 220.96                 |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i> .....   | 61.50                  |                      |
| <b>26 52 13 13-0043</b> |     |     | <b>Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0033)</small>   |                        |                      |
|                         |     |     | Note: For use with fixtures that have remote capability.   |                        |                      |
| 26 52 13 13-0044        | EA  |     | 9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....   | 119.49                 | 23.07                |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Safety Lighting   | 26 52     |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 52 13 13-0045        | EA  |     | 12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....                    | 128.62                 | 23.07                |
| 26 52 13 13-0046        | EA  |     | 9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....                    | 119.59                 | 23.07                |
| 26 52 13 13-0047        | EA  |     | 12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....                   | 126.31                 | 23.07                |
| 26 52 13 13-0048        | EA  |     | 12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....                   | 109.06                 | 23.07                |
| <b>26 52 13 13-0049</b> |     |     | <b>Outdoor Emergency Lights</b> <small>(26 52 13 13)</small>   |                        |                      |
| <b>26 52 13 13-0050</b> |     |     | <b>Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights</b> <small>(26 52 13 13-0049)</small>  |                        |                      |
|                         |     |     | Note: Includes nickel-cadmium batteries.   |                        |                      |
| 26 52 13 13-0051        | EA  |     | 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....                | 701.69                 | 38.46                |
| 26 52 13 13-0052        | EA  |     | 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....    | 835.46                 | 38.46                |
| <b>26 52 13 13-0053</b> |     |     | <b>Recessed Emergency Lights</b> <small>(26 52 13 13)</small>  |                        |                      |
| 26 52 13 13-0054        | EA  |     | 10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....                                  | 763.12                 | 38.46                |
|                         |     |     | <i>For Wire Guard, Add</i>   | 60.00                  |                      |
| 26 52 13 13-0055        | EA  |     | 16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....  | 615.69                 | 76.91                |
|                         |     |     | Note: Includes lead-calcium batteries and two adjustable lamp heads.   |                        |                      |
|                         |     |     | <i>For Wireguard, Add</i>  | 242.04                 |                      |
| 26 52 13 13-0056        | EA  |     | 50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4)..... | 874.95                 | 76.91                |
|                         |     |     | Note: Includes lead-calcium batteries and two adjustable lamp heads.   |                        |                      |
|                         |     |     | <i>For Wireguard, Add</i>  | 242.04                 |                      |
| <b>26 52 13 13-0057</b> |     |     | <b>Square Wraparound Emergency Lights</b> <small>(26 52 13 13)</small>   |                        |                      |
| 26 52 13 13-0058        | EA  |     | 10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....    | 354.21                 | 38.46                |
| <b>26 52 13 16</b>      |     |     | <b>Exit Signs</b> <small>(26 52 13)</small>  |                        |                      |
|                         |     |     | Note: Excludes pendants.   |                        |                      |
| <b>26 52 13 16-0001</b> |     |     | <b>LED Exit Signs</b> <small>(26 52 13 16)</small>   |                        |                      |
|                         |     |     | Note: Includes red LED lamps.  |                        |                      |
| 26 52 13 16-0002        | EA  |     | Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....   | 218.55                 | 56.22                |
|                         |     |     | <i>For Green LED Lamps, Add</i>  | 15.00                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.28                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -13.74                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -21.86                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -29.97                 |                      |
| 26 52 13 16-0003        | EA  |     | Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....   | 218.55                 | 56.22                |
|                         |     |     | <i>For Green LED Lamps, Add</i>  | 15.00                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -8.28                  |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -13.74                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -21.86                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -29.97                 |                      |
| 26 52 13 16-0004        | EA  |     | Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N-M6).....                             | 297.91                 | 56.22                |
|                         |     |     | <i>For Green LED Lamps, Add</i>  | 15.00                  |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i>   | 50.00                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.26                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -17.71                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -29.79                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -41.88                 |                      |
| 26 52 13 16-0005        | EA  |     | Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....   | 297.91                 | 56.22                |
|                         |     |     | <i>For Green LED Lamps, Add</i>  | 15.00                  |                      |
|                         |     |     | <i>For Self-Diagnostics, Add</i>   | 50.00                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.26                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -17.71                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -29.79                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -41.88                 |                      |
| 26 52 13 16-0006        | EA  |     | Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R).....  | 326.27                 | 56.22                |
|                         |     |     | <i>For Green LED Lamps, Add</i>  | 15.00                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -10.97                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -19.12                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -32.63                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -46.13                 |                      |
| 26 52 13 16-0007        | EA  |     | Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R).....  | 367.64                 | 56.22                |
|                         |     |     | <i>For Green LED Lamps, Add</i>  | 15.00                  |                      |
|                         |     |     | <i>For &gt;50 To 100, Deduct</i>   | -12.00                 |                      |
|                         |     |     | <i>For &gt;100 To 250, Deduct</i>  | -21.19                 |                      |
|                         |     |     | <i>For &gt;250 To 500, Deduct</i>  | -36.76                 |                      |
|                         |     |     | <i>For &gt;500, Deduct</i>   | -52.33                 |                      |



**26 Electrical**  
**26 50 Lighting**  
**26 52 Safety Lighting**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 52 13 16-0008 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N).....                    | 308.98                    | 56.22                   |
| For Green LED Lamps, Add   | 15.00                     |                         |
| For Self-Diagnostics, Add  | 50.00                     |                         |
| For >50 To 100, Deduct   | -10.54                    |                         |
| For >100 To 250, Deduct  | -18.26                    |                         |
| For >250 To 500, Deduct  | -30.90                    |                         |
| For >500, Deduct   | -43.54                    |                         |
| 26 52 13 16-0009 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N) .....                   | 339.01                    | 56.22                   |
| For Green LED Lamps, Add   | 15.00                     |                         |
| For Self-Diagnostics, Add  | 50.00                     |                         |
| For >50 To 100, Deduct   | -11.29                    |                         |
| For >100 To 250, Deduct  | -19.76                    |                         |
| For >250 To 500, Deduct  | -33.90                    |                         |
| For >500, Deduct   | -48.04                    |                         |
| 26 52 13 16-0010 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4)..... | 395.08                    | 56.22                   |
| Note: Includes two circular side mounted krypton emergency lights.   |                           |                         |
| For Green LED Lamps, Add   | 15.00                     |                         |
| For >50 To 100, Deduct   | -13.72                    |                         |
| For >100 To 250, Deduct  | -23.60                    |                         |
| For >250 To 500, Deduct  | -39.51                    |                         |
| For >500, Deduct   | -55.42                    |                         |
| 26 52 13 16-0011 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6).....   | 341.01                    | 56.22                   |
| Note: Includes two circular side mounted LED emergency lights.   |                           |                         |
| For Green LED Lamps, Add   | 15.00                     |                         |
| For >50 To 100, Deduct   | -12.37                    |                         |
| For >100 To 250, Deduct  | -20.90                    |                         |
| For >250 To 500, Deduct  | -34.10                    |                         |
| For >500, Deduct   | -47.31                    |                         |
| 26 52 13 16-0012 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH) .....   | 488.78                    | 56.22                   |
| Note: Includes two rectangular front mounted high intensity tungsten emergency lights.   |                           |                         |
| For Green LED Lamps, Add   | 15.00                     |                         |
| For >50 To 100, Deduct   | -16.07                    |                         |
| For >100 To 250, Deduct  | -28.28                    |                         |
| For >250 To 500, Deduct  | -48.88                    |                         |
| For >500, Deduct   | -69.47                    |                         |
| 26 52 13 16-0013 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....       | 510.58                    | 56.22                   |
| Note: Includes two circular side mounted PAR 36 emergency lights.  |                           |                         |
| For Green LED Lamps, Add   | 15.00                     |                         |
| For >50 To 100, Deduct   | -16.61                    |                         |
| For >100 To 250, Deduct  | -29.37                    |                         |
| For >250 To 500, Deduct  | -51.06                    |                         |
| For >500, Deduct   | -72.74                    |                         |
| 26 52 13 16-0014 EA Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....                            | 151.70                    | 56.22                   |
| For >50 To 100, Deduct   | -6.60                     |                         |
| For >100 To 250, Deduct  | -10.40                    |                         |
| For >250 To 500, Deduct  | -15.17                    |                         |
| For >500, Deduct   | -19.94                    |                         |
| 26 52 13 16-0015 EA 120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R) .....                       | 152.21                    | 56.22                   |
| For >50 To 100, Deduct   | -6.62                     |                         |
| For >100 To 250, Deduct  | -10.42                    |                         |
| For >250 To 500, Deduct  | -15.22                    |                         |
| For >500, Deduct   | -20.02                    |                         |
| <b>26 52 13 16-0016 Edge-Lit LED Exit Signs <small>(26 52 13 16)</small></b>   |                           |                         |
| Note: Includes red LED lamps.  |                           |                         |
| 26 52 13 16-0017 EA Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6).....  | 292.86                    | 56.22                   |
| For Green LED Lamps, Add   | 40.00                     |                         |
| For >50 To 100, Deduct   | -10.13                    |                         |
| For >100 To 250, Deduct  | -17.45                    |                         |
| For >250 To 500, Deduct  | -29.29                    |                         |
| For >500, Deduct   | -41.12                    |                         |
| 26 52 13 16-0018 EA Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6) .....  | 295.72                    | 56.22                   |
| For Green LED Lamps, Add   | 40.00                     |                         |
| For >50 To 100, Deduct   | -10.20                    |                         |
| For >100 To 250, Deduct  | -17.60                    |                         |
| For >250 To 500, Deduct  | -29.57                    |                         |
| For >500, Deduct   | -41.55                    |                         |
| 26 52 13 16-0019 EA Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6).....                                       | 315.10                    | 56.22                   |
| For Green LED Lamps, Add   | 40.00                     |                         |
| For Self-Diagnostics, Add  | 50.00                     |                         |
| For >50 To 100, Deduct   | -10.69                    |                         |
| For >100 To 250, Deduct  | -18.57                    |                         |
| For >250 To 500, Deduct  | -31.51                    |                         |
| For >500, Deduct   | -44.45                    |                         |
| 26 52 13 16-0020 EA Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6).....                                       | 373.01                    | 56.22                   |
| For Green LED Lamps, Add   | 40.00                     |                         |
| For Self-Diagnostics, Add  | 50.00                     |                         |
| For >50 To 100, Deduct   | -12.14                    |                         |
| For >100 To 250, Deduct  | -21.46                    |                         |
| For >250 To 500, Deduct  | -37.30                    |                         |
| For >500, Deduct   | -53.14                    |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Safety Lighting   | 26 52     |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |          |       |
|------------------|---|----------|-------|
| 26 52 13 16-0021 | <b>Self-Luminous Tritium Exit Signs</b> <small>(26 52 13 16)</small>  |          |       |
|                  | Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.   |          |       |
| 26 52 13 16-0022 | EA 10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R).....                    | 603.46   | 56.22 |
|                  | For >50 To 100, Deduct  | -17.90   |       |
|                  | For >100 To 250, Deduct   | -32.98   |       |
|                  | For >250 To 500, Deduct   | -60.35   |       |
|                  | For >500, Deduct  | -87.71   |       |
| 26 52 13 16-0023 | EA 10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R).....                    | 1,093.95 | 56.22 |
|                  | For >50 To 100, Deduct  | -30.16   |       |
|                  | For >100 To 250, Deduct   | -57.51   |       |
|                  | For >250 To 500, Deduct   | -109.40  |       |
|                  | For >500, Deduct  | -161.28  |       |
| 26 52 13 16-0024 | EA 20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R).....                    | 715.20   | 56.22 |
|                  | For >50 To 100, Deduct  | -20.69   |       |
|                  | For >100 To 250, Deduct   | -38.57   |       |
|                  | For >250 To 500, Deduct   | -71.52   |       |
|                  | For >500, Deduct  | -104.47  |       |
| 26 52 13 16-0025 | EA 20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R).....                    | 1,183.66 | 56.22 |
|                  | For >50 To 100, Deduct  | -32.40   |       |
|                  | For >100 To 250, Deduct   | -61.99   |       |
|                  | For >250 To 500, Deduct   | -118.37  |       |
|                  | For >500, Deduct  | -174.74  |       |
| 26 52 13 16-0026 | EA 10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R).....  | 659.07   | 56.22 |
|                  | For >50 To 100, Deduct  | -19.29   |       |
|                  | For >100 To 250, Deduct   | -35.76   |       |
|                  | For >250 To 500, Deduct   | -65.91   |       |
|                  | For >500, Deduct  | -96.05   |       |
| 26 52 13 16-0027 | EA 10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R).....  | 1,183.66 | 56.22 |
|                  | For >50 To 100, Deduct  | -32.40   |       |
|                  | For >100 To 250, Deduct   | -61.99   |       |
|                  | For >250 To 500, Deduct   | -118.37  |       |
|                  | For >500, Deduct  | -174.74  |       |
| 26 52 13 16-0028 | EA 20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R).....  | 804.38   | 56.22 |
|                  | For >50 To 100, Deduct  | -22.92   |       |
|                  | For >100 To 250, Deduct   | -43.03   |       |
|                  | For >250 To 500, Deduct   | -80.44   |       |
|                  | For >500, Deduct  | -117.85  |       |
| 26 52 13 16-0029 | EA 20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R).....  | 1,464.84 | 56.22 |
|                  | For >50 To 100, Deduct  | -39.43   |       |
|                  | For >100 To 250, Deduct   | -76.05   |       |
|                  | For >250 To 500, Deduct   | -146.48  |       |
|                  | For >500, Deduct  | -216.91  |       |
| 26 52 13 16-0030 | <b>Vandal-Resistant LED Exit Signs</b> <small>(26 52 13 16)</small>   |          |       |
|                  | Note: Includes red LED lamps.   |          |       |
| 26 52 13 16-0031 | EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277).....                                       | 570.41   | 56.22 |
|                  | For >50 To 100, Deduct  | -17.07   |       |
|                  | For >100 To 250, Deduct   | -31.33   |       |
|                  | For >250 To 500, Deduct   | -57.04   |       |
|                  | For >500, Deduct  | -82.75   |       |
| 26 52 13 16-0032 | EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N).....              | 874.15   | 56.22 |
|                  | For >50 To 100, Deduct  | -24.67   |       |
|                  | For >100 To 250, Deduct   | -46.52   |       |
|                  | For >250 To 500, Deduct   | -87.42   |       |
|                  | For >500, Deduct  | -128.31  |       |
| 26 52 13 16-0033 | EA Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X)..... | 1,060.38 | 56.22 |
|                  | For >50 To 100, Deduct  | -29.32   |       |
|                  | For >100 To 250, Deduct   | -55.83   |       |
|                  | For >250 To 500, Deduct   | -106.04  |       |
|                  | For >500, Deduct  | -156.25  |       |
| 26 52 13 16-0034 | <b>Removal And Reinstallation Of Exit Light Fixture</b> <small>(26 52 13 16)</small>  |          |       |
| 26 52 13 16-0035 | EA Removal And Reinstall Of Exit Light Fixtures.....  | 115.37   |       |
|                  | Note: Includes storage and cleaning.  |          |       |
|                  | For >50 To 100, Deduct  | -5.77    |       |
|                  | For >100 To 250, Deduct   | -8.65    |       |
|                  | For >250 To 500, Deduct   | -11.54   |       |
|                  | For >500, Deduct  | -14.42   |       |
| 26 52 13 16-0036 | <b>Exit Sign Accessories</b> <small>(26 52 13 16)</small>   |          |       |

|              |                        |
|--------------|------------------------|
| <b>26</b>    | <b>Electrical</b>      |
| <b>26 50</b> | <b>Lighting</b>        |
| <b>26 52</b> | <b>Safety Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 52 13 16-0037 EA Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1).....                          | 135.69                    | 15.41                   |
| For >50 To 100, Deduct   | -4.16                     |                         |
| For >100 To 250, Deduct  | -7.55                     |                         |
| For >250 To 500, Deduct  | -13.57                    |                         |
| For >500, Deduct   | -19.58                    |                         |
| 26 52 13 16-0038 EA Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1) .....            | 81.40                     | 15.41                   |
| For >50 To 100, Deduct   | -2.81                     |                         |
| For >100 To 250, Deduct  | -4.84                     |                         |
| For >250 To 500, Deduct  | -8.14                     |                         |
| For >500, Deduct   | -11.44                    |                         |
| 26 52 13 16-0039 EA Wire Guard For Combination Exit Sign And Emergency Light (Best Lighting Products WG-3) ..... | 125.85                    | 12.32                   |
| For >50 To 100, Deduct   | -3.76                     |                         |
| For >100 To 250, Deduct  | -6.91                     |                         |
| For >250 To 500, Deduct  | -12.59                    |                         |
| For >500, Deduct   | -18.26                    |                         |
| 26 52 13 16-0040 EA Removal And Replacement Of Battery For Exit Signs .....                                      | 137.02                    |                         |
| Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity   |                           |                         |
| For >50 To 100, Deduct   | -4.39                     |                         |
| For >100 To 250, Deduct  | -7.81                     |                         |
| For >250 To 500, Deduct  | -13.70                    |                         |
| For >500, Deduct   | -19.59                    |                         |

**26 54 Classified Location Lighting (26 50)**

**26 54 19 LED Classified Location Lighting (26 54)**

26 54 19 00-0001 Class I Division 2, Hazardous Location, LED Fixtures (26 54 19)

26 54 19 00-0002 Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV) (26 54 19 00-0001)

Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.

|  |          |        |
|--|----------|--------|
| 26 54 19 00-0003 EA 5,183 Lumens, 45 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV5L).....   | 2,516.17 | 126.49 |
| For Bolt-On Visor, Add   | 94.27    |        |
| For Bolt-On Wire Guard, Add  | 193.89   |        |
| For 480 Volt, Add  | 166.01   |        |
| For Warm White Color Rendering, Add  | 70.48    |        |
| For >50 To 100, Deduct   | -68.17   |        |
| For >100 To 250, Deduct  | -131.08  |        |
| For >250 To 500, Deduct  | -251.62  |        |
| For >500, Deduct   | -372.16  |        |
| 26 54 19 00-0004 EA 7,095 Lumens, 62 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV7L).....   | 3,073.25 | 134.93 |
| For Bolt-On Visor, Add   | 94.27    |        |
| For Bolt-On Wire Guard, Add  | 193.89   |        |
| For 480 Volt, Add  | 166.01   |        |
| For Warm White Color Rendering, Add  | 70.48    |        |
| For >50 To 100, Deduct   | -82.45   |        |
| For >100 To 250, Deduct  | -159.28  |        |
| For >250 To 500, Deduct  | -307.33  |        |
| For >500, Deduct   | -455.37  |        |
| 26 54 19 00-0005 EA 9,132 Lumens, 79 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV9L).....   | 3,467.46 | 143.37 |
| For Bolt-On Visor, Add   | 94.27    |        |
| For Bolt-On Wire Guard, Add  | 193.89   |        |
| For 480 Volt, Add  | 166.01   |        |
| For Warm White Color Rendering, Add  | 70.48    |        |
| For >50 To 100, Deduct   | -92.66   |        |
| For >100 To 250, Deduct  | -179.35  |        |
| For >250 To 500, Deduct  | -346.75  |        |
| For >500, Deduct   | -514.15  |        |
| 26 54 19 00-0006 EA 11,107 Lumens, 99 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV11L)..... | 3,872.50 | 151.79 |
| For Bolt-On Visor, Add   | 94.27    |        |
| For Bolt-On Wire Guard, Add  | 193.89   |        |
| For 480 Volt, Add  | 166.01   |        |
| For Warm White Color Rendering, Add  | 70.48    |        |
| For >50 To 100, Deduct   | -103.14  |        |
| For >100 To 250, Deduct  | -199.95  |        |
| For >250 To 500, Deduct  | -387.25  |        |
| For >500, Deduct   | -574.55  |        |

26 54 19 00-0007 Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC) (26 54 19 00-0001)

Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.



|                                     |              |           |
|-------------------------------------|--------------|-----------|
| <b>Electrical</b>                   | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>                     | <b>26 50</b> |           |
| <b>Classified Location Lighting</b> | <b>26 54</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 54 19 00-0008 EA 1,600 Lumens, 25 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC) .....               | 1,505.75                  | 118.07                  |
| For 12/24 Volt DC Driver, Add   | 26.79                     |                         |
| For Frosted Lens, Add   | 54.75                     |                         |
| For Warm White Color Temperature LEDs, Add  | 70.48                     |                         |
| For 55 Degree Ambient Suitability (AC Only) Option, Add   | 36.48                     |                         |
| For Stanchion Mount, Add  | 225.86                    |                         |
| For Ceiling Mount, Add  | 90.57                     |                         |
| For Wall Mount, Add   | 132.21                    |                         |
| For Teflon Coated Lens, Add   | 116.21                    |                         |
| For Wall Mount With Junction Box, Add   | 193.04                    |                         |
| For >50 To 100, Deduct  | -42.56                    |                         |
| For >100 To 250, Deduct   | -80.21                    |                         |
| For >250 To 500, Deduct   | -150.58                   |                         |
| For >500, Deduct  | -220.94                   |                         |
| <b>26 54 19 00-0009 Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV) (26 54 19 00-0001)</b>   |                           |                         |
| Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing. |                           |                         |
| 26 54 19 00-0010 EA 3,240 Lumens, 47 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV3L) .....                  | 2,364.64                  | 118.07                  |
| For Ceiling Mount, Add  | 17.33                     |                         |
| For Quick Clip Mounting Option, Add   | 25.46                     |                         |
| For Frosted Lens, Add   | 54.75                     |                         |
| For Warm White Color Rendering, Add   | 70.48                     |                         |
| For Polycarbonate Lens, Add   | 101.48                    |                         |
| For 480 Volt, Add   | 166.01                    |                         |
| For >50 To 100, Deduct  | -64.04                    |                         |
| For >100 To 250, Deduct   | -123.15                   |                         |
| For >250 To 500, Deduct   | -236.46                   |                         |
| For >500, Deduct  | -349.78                   |                         |
| 26 54 19 00-0011 EA 3,778 Lumens, 63 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV5L) .....                  | 2,617.23                  | 126.49                  |
| For Ceiling Mount, Add  | 17.33                     |                         |
| For Quick Clip Mounting Option, Add   | 25.46                     |                         |
| For Frosted Lens, Add   | 54.75                     |                         |
| For Warm White Color Rendering, Add   | 70.48                     |                         |
| For Polycarbonate Lens, Add   | 101.48                    |                         |
| For 480 Volt, Add   | 166.01                    |                         |
| For >50 To 100, Deduct  | -70.70                    |                         |
| For >100 To 250, Deduct   | -136.13                   |                         |
| For >250 To 500, Deduct   | -261.72                   |                         |
| For >500, Deduct  | -387.31                   |                         |
| 26 54 19 00-0012 EA 6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV7L) .....                  | 2,929.69                  | 134.93                  |
| For Ceiling Mount, Add  | 17.33                     |                         |
| For Quick Clip Mounting Option, Add   | 25.46                     |                         |
| For Frosted Lens, Add   | 54.75                     |                         |
| For Warm White Color Rendering, Add   | 70.48                     |                         |
| For Polycarbonate Lens, Add   | 101.48                    |                         |
| For 480 Volt, Add   | 166.01                    |                         |
| For >50 To 100, Deduct  | -78.86                    |                         |
| For >100 To 250, Deduct   | -152.11                   |                         |
| For >250 To 500, Deduct   | -292.97                   |                         |
| For >500, Deduct  | -433.83                   |                         |
| 26 54 19 00-0013 EA 6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV9L) .....                  | 3,803.59                  | 143.37                  |
| For Ceiling Mount, Add  | 17.33                     |                         |
| For Quick Clip Mounting Option, Add   | 25.46                     |                         |
| For Frosted Lens, Add   | 54.75                     |                         |
| For Warm White Color Rendering, Add   | 70.48                     |                         |
| For Polycarbonate Lens, Add   | 101.48                    |                         |
| For 480 Volt, Add   | 166.01                    |                         |
| For >50 To 100, Deduct  | -101.06                   |                         |
| For >100 To 250, Deduct   | -196.15                   |                         |
| For >250 To 500, Deduct   | -380.36                   |                         |
| For >500, Deduct  | -564.57                   |                         |
| 26 54 19 00-0014 EA 9,720 Lumens, 137 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV11L) .....                | 4,358.67                  | 151.79                  |
| For Ceiling Mount, Add  | 17.33                     |                         |
| For Quick Clip Mounting Option, Add   | 25.46                     |                         |
| For Frosted Lens, Add   | 54.75                     |                         |
| For Warm White Color Rendering, Add   | 70.48                     |                         |
| For Polycarbonate Lens, Add   | 101.48                    |                         |
| For 480 Volt, Add   | 166.01                    |                         |
| For >50 To 100, Deduct  | -115.29                   |                         |
| For >100 To 250, Deduct   | -224.26                   |                         |
| For >250 To 500, Deduct   | -435.87                   |                         |
| For >500, Deduct  | -647.48                   |                         |

26 54 19 00-0015 Class I Division 1, Explosion Proof, LED Fixtures (26 54 19)

|    |       |                              |
|----|-------|------------------------------|
| 26 | 26    | Electrical                   |
|    | 26 50 | Lighting                     |
|    | 26 54 | Classified Location Lighting |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 26 54 | 19 00-0016 |     | <b>Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL)</b> <small>(26 54 19 00-0015)</small>                                 |                        |                      |
|       |            |     | Note: Includes 5,600K CRI LED arrays, shatter resistant and explosion proof glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing. |                        |                      |
| 26 54 | 19 00-0017 | EA  | 5,625 Lumens, 80 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL5L).....                             | 3,786.05               | 126.49               |
|       |            |     | For Wall Mount, Deduct  | -14.26                 |                      |
|       |            |     | For Warm Color Temperature LEDs, Add  | 76.86                  |                      |
|       |            |     | For Stainless Steel Guard, Add  | 137.97                 |                      |
|       |            |     | For Ceiling Mount, Add  | 166.44                 |                      |
|       |            |     | For Stanchion Mount, Add  | 193.71                 |                      |
|       |            |     | For Yoke Mount, Add   | 484.27                 |                      |
|       |            |     | For >50 To 100, Deduct  | -99.92                 |                      |
|       |            |     | For >100 To 250, Deduct   | -194.57                |                      |
|       |            |     | For >250 To 500, Deduct   | -378.61                |                      |
|       |            |     | For >500, Deduct  | -562.64                |                      |
| 26 54 | 19 00-0018 | EA  | 6,750 Lumens, 100 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL7L).....                            | 4,595.75               | 134.93               |
|       |            |     | For Wall Mount, Deduct  | -14.26                 |                      |
|       |            |     | For Warm Color Temperature LEDs, Add  | 76.86                  |                      |
|       |            |     | For Stainless Steel Guard, Add  | 137.97                 |                      |
|       |            |     | For Ceiling Mount, Add  | 166.44                 |                      |
|       |            |     | For Stanchion Mount, Add  | 193.71                 |                      |
|       |            |     | For Yoke Mount, Add   | 484.27                 |                      |
|       |            |     | For >50 To 100, Deduct  | -120.52                |                      |
|       |            |     | For >100 To 250, Deduct   | -235.41                |                      |
|       |            |     | For >250 To 500, Deduct   | -459.58                |                      |
|       |            |     | For >500, Deduct  | -683.74                |                      |
| 26 54 | 19 00-0019 | EA  | 9,000 Lumens, 130 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL9L).....                            | 5,333.22               | 143.37               |
|       |            |     | For Wall Mount, Deduct  | -14.26                 |                      |
|       |            |     | For Warm Color Temperature LEDs, Add  | 76.86                  |                      |
|       |            |     | For Stainless Steel Guard, Add  | 137.97                 |                      |
|       |            |     | For Ceiling Mount, Add  | 166.44                 |                      |
|       |            |     | For Stanchion Mount, Add  | 193.71                 |                      |
|       |            |     | For Yoke Mount, Add   | 484.27                 |                      |
|       |            |     | For >50 To 100, Deduct  | -139.30                |                      |
|       |            |     | For >100 To 250, Deduct   | -272.63                |                      |
|       |            |     | For >250 To 500, Deduct   | -533.32                |                      |
|       |            |     | For >500, Deduct  | -794.01                |                      |
| 26 54 | 19 00-0020 | EA  | 10,500 Lumens, 151 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL11L).....                          | 6,084.17               | 151.79               |
|       |            |     | For Wall Mount, Deduct  | -14.26                 |                      |
|       |            |     | For Warm Color Temperature LEDs, Add  | 76.86                  |                      |
|       |            |     | For Stainless Steel Guard, Add  | 137.97                 |                      |
|       |            |     | For Ceiling Mount, Add  | 166.44                 |                      |
|       |            |     | For Stanchion Mount, Add  | 193.71                 |                      |
|       |            |     | For Yoke Mount, Add   | 484.27                 |                      |
|       |            |     | For >50 To 100, Deduct  | -158.43                |                      |
|       |            |     | For >100 To 250, Deduct   | -310.53                |                      |
|       |            |     | For >250 To 500, Deduct   | -608.42                |                      |
|       |            |     | For >500, Deduct  | -906.30                |                      |
| 26 54 | 19 00-0021 | EA  | 13,500 Lumens, 175 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL13L).....                          | 7,043.40               | 146.17               |
|       |            |     | For Wall Mount, Deduct  | -14.26                 |                      |
|       |            |     | For Warm Color Temperature LEDs, Add  | 76.86                  |                      |
|       |            |     | For Stainless Steel Guard, Add  | 137.97                 |                      |
|       |            |     | For Ceiling Mount, Add  | 166.44                 |                      |
|       |            |     | For Stanchion Mount, Add  | 193.71                 |                      |
|       |            |     | For Yoke Mount, Add   | 484.27                 |                      |
|       |            |     | For >50 To 100, Deduct  | -182.76                |                      |
|       |            |     | For >100 To 250, Deduct   | -358.85                |                      |
|       |            |     | For >250 To 500, Deduct   | -704.34                |                      |
|       |            |     | For >500, Deduct  | -1,049.83              |                      |

## 26 55 Special Purpose Lighting (26 50)

### 26 55 13 Landscape Lighting (26 55)

|       |            |    |  |          |        |
|-------|------------|----|--|----------|--------|
| 26 55 | 13 00-0001 |    | <b>Bollards</b> <small>(26 55 13)</small>  |          |        |
|       |            |    | Note: Excludes concrete base.  |          |        |
| 26 55 | 13 00-0002 |    | <b>Aluminum Architectural Bollards</b> <small>(26 55 13 00-0001)</small>                               |          |        |
| 26 55 | 13 00-0003 |    | <b>High Pressure Sodium, Aluminum Architectural Bollards</b> <small>(26 55 13 00-0002)</small>         |          |        |
| 26 55 | 13 00-0004 |    | <b>Square, High Pressure Sodium, Aluminum Architectural Bollards</b> <small>(26 55 13 00-0003)</small> |          |        |
| 26 55 | 13 00-0005 | EA | 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,631.22 | 130.75 |
| 26 55 | 13 00-0006 | EA | 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,646.60 | 138.44 |
| 26 55 | 13 00-0007 | EA | 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,661.98 | 146.13 |
| 26 55 | 13 00-0008 | EA | 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,545.10 | 153.82 |
| 26 55 | 13 00-0009 | EA | 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,631.22 | 130.75 |
| 26 55 | 13 00-0010 | EA | 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,646.60 | 138.44 |
| 26 55 | 13 00-0011 | EA | 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,661.98 | 146.13 |
| 26 55 | 13 00-0012 | EA | 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....  | 1,545.10 | 153.82 |



MINOR CSI UOM DESCRIPTION TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

Table with 4 columns: Item ID, Description, Total Direct Unit Cost, Demolition Unit Cost. Includes items like 26 55 13 00-0013 EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.

26 55 13 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)

Table with 4 columns: Item ID, Description, Total Direct Unit Cost, Demolition Unit Cost. Includes items like 26 55 13 00-0022 EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.

26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)

26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)

Table with 4 columns: Item ID, Description, Total Direct Unit Cost, Demolition Unit Cost. Includes items like 26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.

26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)

Table with 4 columns: Item ID, Description, Total Direct Unit Cost, Demolition Unit Cost. Includes items like 26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.

26 55 13 00-0065 Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)

26 55 13 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)

Table with 4 columns: Item ID, Description, Total Direct Unit Cost, Demolition Unit Cost. Includes items like 26 55 13 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.

26 55 13 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)

Table with 4 columns: Item ID, Description, Total Direct Unit Cost, Demolition Unit Cost. Includes items like 26 55 13 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 55 13 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,595.11                  | 146.13                  |
| 26 55 13 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,480.63                  | 153.82                  |
| 26 55 13 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,564.35                  | 130.75                  |
| 26 55 13 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,579.73                  | 138.44                  |
| 26 55 13 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,595.11                  | 146.13                  |
| 26 55 13 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,480.63                  | 153.82                  |
| 26 55 13 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,564.35                  | 130.75                  |
| 26 55 13 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,579.73                  | 138.44                  |
| 26 55 13 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,595.11                  | 146.13                  |
| 26 55 13 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....        | 1,480.63                  | 153.82                  |
| <b>26 55 13 00-0092 LED, Aluminum Architectural Bollards (26 55 13 00-0002)</b>   |                           |                         |
| <b>26 55 13 00-0093 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)</b>                                       |                           |                         |
| 26 55 13 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....                          | 1,935.61                  | 130.75                  |
| 26 55 13 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....                          | 1,950.99                  | 138.44                  |
| 26 55 13 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....                          | 1,966.37                  | 146.13                  |
| 26 55 13 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....                          | 1,852.39                  | 153.82                  |
| 26 55 13 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....                          | 2,352.98                  | 130.75                  |
| 26 55 13 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....                          | 2,368.36                  | 138.44                  |
| 26 55 13 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....                          | 2,383.74                  | 146.13                  |
| 26 55 13 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....                          | 2,267.69                  | 153.82                  |
| <b>26 55 13 00-0102 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)</b>  |                           |                         |
| 26 55 13 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard .....                            | 1,873.35                  | 130.75                  |
| 26 55 13 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard .....                            | 1,888.73                  | 138.44                  |
| 26 55 13 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard .....                            | 1,904.11                  | 146.13                  |
| 26 55 13 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard .....                            | 1,788.06                  | 153.82                  |
| 26 55 13 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard .....                            | 2,290.72                  | 130.75                  |
| 26 55 13 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard .....                            | 2,306.10                  | 138.44                  |
| 26 55 13 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard .....                            | 2,321.48                  | 146.13                  |
| 26 55 13 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard .....                            | 2,206.17                  | 153.82                  |
| <b>26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)</b>   |                           |                         |
| 26 55 13 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard .....                            | 1,708.82                  | 384.55                  |
| 26 55 13 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard ..... | 2,942.70                  | 512.68                  |
| <b>26 55 13 00-0114 Low Voltage (26 55 13)</b>  |                           |                         |
| 26 55 13 00-0115 EA Low Voltage Recessed Uplight .....  | 838.68                    | 279.96                  |
| 26 55 13 00-0116 EA Low Voltage Walkway .....   | 558.99                    | 153.82                  |
| 26 55 13 00-0117 EA Low Voltage Malibu - 5 Light Set .....  | 593.51                    | 205.35                  |
| 26 55 13 00-0118 EA Low Voltage Mushroom 24" Pier .....   | 495.01                    | 153.82                  |
| <b>26 55 13 00-0119 Recessed, Adjustable (26 55 13)</b>   |                           |                         |
| 26 55 13 00-0120 EA 150 Watt Incandescent Recessed, Adjustable .....  | 917.19                    | 246.12                  |
| 26 55 13 00-0121 EA 300 Watt Incandescent Recessed, Adjustable .....  | 985.74                    | 246.12                  |
| <b>26 55 13 00-0122 Recessed, Uplight (26 55 13)</b>  |                           |                         |
| 26 55 13 00-0123 EA 50 Watt Incandescent Recessed Uplight .....   | 839.51                    | 246.12                  |
| 26 55 13 00-0124 EA 150 Watt Incandescent Recessed Uplight .....  | 853.22                    | 246.12                  |
| 26 55 13 00-0125 EA 300 Watt Incandescent Recessed Uplight .....  | 894.34                    | 246.12                  |
| 26 55 13 00-0126 EA 500 Watt Quartz Recessed Uplight .....  | 889.77                    | 246.12                  |
| 26 55 13 00-0127 EA 5 Watt, LED Recessed Uplight .....  | 1,254.13                  | 246.12                  |
| 26 55 13 00-0128 EA 15 Watt, LED Recessed Uplight .....   | 1,370.42                  | 246.12                  |
| <b>26 55 13 00-0129 Recessed Wall Light (26 55 13)</b>  |                           |                         |
| 26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light .....   | 453.88                    | 153.82                  |
| 26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light .....  | 440.17                    | 153.82                  |
| 26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light .....   | 680.34                    | 205.35                  |
| <b>26 55 13 00-0133 Step Lights (26 55 13)</b>  |                           |                         |
| 26 55 13 00-0134 EA Incandescent Step Light .....   | 369.43                    | 123.05                  |
| 26 55 13 00-0135 EA Fluorescent Step Light .....  | 415.20                    | 123.05                  |
| 26 55 13 00-0136 EA 5 Watt, LED Step Light .....  | 684.12                    | 123.05                  |
| 26 55 13 00-0137 EA 15 Watt, LED Step Light .....   | 808.16                    | 123.05                  |
| <b>26 55 13 00-0138 Tree Lights, Surface Adjustable (26 55 13)</b>  |                           |                         |
| 26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights .....  | 739.75                    | 205.35                  |
| 26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights .....   | 753.46                    | 205.35                  |
| 26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights .....   | 980.87                    | 307.65                  |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    |           |
| <b>Lighting</b>          | <b>26 50</b> | <b>26</b> |
| Special Purpose Lighting | 26 55        |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 55 16 Walkway Lighting (26 55)</b>  |                           |                         |
| <b>26 55 16 00-0001 Incandescent Walkway (26 55 16)</b>   |                           |                         |
| 26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....   | 461.88                    | 143.05                  |
| <b>26 55 16 00-0003 Metal Halide Walkway (26 55 16)</b>   |                           |                         |
| 26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture.....   | 712.26                    | 224.88                  |
| 26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture.....   | 751.45                    | 233.04                  |
| 26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture.....   | 805.08                    | 241.96                  |
| 26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture.....   | 863.60                    | 261.50                  |
| 26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture.....   | 774.48                    | 241.96                  |
| 26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....   | 771.14                    | 224.88                  |
| 26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture.....   | 788.20                    | 233.04                  |
| 26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture.....  | 611.23                    | 160.28                  |
| 26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture.....  | 641.84                    | 160.28                  |
| 26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....  | 672.44                    | 160.28                  |
| 26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....  | 758.97                    | 180.43                  |
| 26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....  | 578.82                    | 143.98                  |
| <b>26 55 16 00-0016 High Pressure Sodium Walkway (26 55 16)</b>   |                           |                         |
| 26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....   | 654.84                    | 224.88                  |
| 26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture.....   | 689.03                    | 233.04                  |
| 26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture.....   | 734.78                    | 241.96                  |
| 26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture.....   | 789.14                    | 261.50                  |
| 26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....   | 710.87                    | 241.96                  |
| 26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture.....   | 700.84                    | 224.88                  |
| 26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....   | 717.74                    | 233.04                  |
| 26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....  | 547.62                    | 160.28                  |
| 26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....  | 571.54                    | 160.28                  |
| 26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....  | 595.45                    | 160.28                  |
| 26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....  | 671.94                    | 180.43                  |
| 26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....  | 502.22                    | 143.98                  |
| <b>26 55 16 00-0029 Walkway, Adjustable (26 55 16)</b>  |                           |                         |
| 26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....  | 667.44                    | 205.35                  |
| 26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture.....  | 682.54                    | 205.35                  |
| 26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture.....  | 1,148.85                  | 307.65                  |
| 26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture.....  | 549.27                    | 153.82                  |
| 26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture.....   | 569.40                    | 153.82                  |
| <b>26 55 16 00-0035 LED Walkway (26 55 16)</b>  |                           |                         |
| <b>26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)</b>  |                           |                         |
| Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....  | 1,039.81                  | 118.07                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| 26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....  | 1,072.23                  | 118.07                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| 26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....  | 1,129.45                  | 118.07                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| 26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....  | 1,173.32                  | 118.07                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| 26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....  | 1,353.53                  | 151.79                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| <b>26 55 16 00-0042 Wall Mounted Walkway Lighting (26 55 16 00-0035)</b>  |                           |                         |
| 26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....   | 4,530.41                  |                         |
| Note: Type Fixture 17 as Post   |                           |                         |
| <b>26 55 16 00-0044 Pole Mounted Walkway Lighting (26 55 16 00-0035)</b>  |                           |                         |
| 26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....   | 4,188.21                  |                         |
| 26 55 16 00-0046 EA 12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12).....   | 4,113.53                  |                         |
| Note: Washers and nuts included   |                           |                         |
| <b>26 55 29 Underwater Lighting (26 55)</b>   |                           |                         |
| <b>26 55 29 00-0001 Underwater Lights (26 55 29)</b>  |                           |                         |
| 26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights.....   | 556.48                    | 102.29                  |
| 26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights.....   | 611.31                    | 102.29                  |
| 26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights.....   | 1,427.26                  | 153.82                  |
| 26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights.....   | 579.33                    | 102.29                  |



|           |                                       |
|-----------|---------------------------------------|
| <b>26</b> | <b>26 Electrical</b>                  |
|           | <b>26 50 Lighting</b>                 |
|           | <b>26 55 Special Purpose Lighting</b> |



| MINOR   |     |   |  | TOTAL DIRECT | DEMOLITION |
|---|-----|---|--|--------------|------------|
| CSI   | UOM | DESCRIPTION   |  | UNIT COST    | UNIT COST  |
| 26 55 29 00-0006                                      | EA  | 300 Watt, 12 Volt Underwater Lights .....   |  | 643.30       | 102.29     |
| 26 55 29 00-0007                                      | SET | Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent .....  |  | 1,626.47     | 230.73     |
| <b>26 55 53 Security Lighting (26 55)</b>             |     |   |  |              |            |
| <b>26 55 53 11 Security Flood Lighting (26 55 53)</b> |     |   |  |              |            |
| 26 55 53 11-0001                                      |     | General Electric Powerflood® Flood Lights (26 55 53 11)   |  |              |            |
| 26 55 53 11-0002                                      |     | MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001)<br>Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.                             |  |              |            |
| 26 55 53 11-0003                                      |     | High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)  |  |              |            |
| 26 55 53 11-0004                                      | EA  | 70 Watt High Pressure Sodium MPF Series GE Flood Light .....  |  | 423.26       | 125.57     |
| 26 55 53 11-0005                                      | EA  | 100 Watt High Pressure Sodium MPF Series GE Flood Light .....   |  | 426.70       | 125.57     |
| 26 55 53 11-0006                                      | EA  | 150 Watt High Pressure Sodium MPF Series GE Flood Light .....   |  | 432.44       | 125.57     |
| 26 55 53 11-0007                                      |     | Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)  |  |              |            |
| 26 55 53 11-0008                                      | EA  | 70 Watt Metal Halide MPF Series GE Flood Light .....  |  | 559.80       | 125.57     |
| 26 55 53 11-0009                                      |     | P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)<br>Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting. |  |              |            |
| 26 55 53 11-0010                                      |     | High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)  |  |              |            |
| 26 55 53 11-0011                                      | EA  | 70 Watt High Pressure Sodium P-154 Series GE Flood Light .....  |  | 829.40       | 167.43     |
| 26 55 53 11-0012                                      | EA  | 100 Watt High Pressure Sodium P-154 Series GE Flood Light .....   |  | 833.99       | 167.43     |
| 26 55 53 11-0013                                      | EA  | 150 Watt High Pressure Sodium P-154 Series GE Flood Light .....   |  | 842.02       | 167.43     |
| 26 55 53 11-0014                                      | EA  | 250 Watt High Pressure Sodium P-154 Series GE Flood Light .....   |  | 932.67       | 167.43     |
| 26 55 53 11-0015                                      | EA  | 400 Watt High Pressure Sodium P-154 Series GE Flood Light .....   |  | 959.06       | 167.43     |
| 26 55 53 11-0016                                      |     | Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)  |  |              |            |
| 26 55 53 11-0017                                      | EA  | 175 Watt Metal Halide P-154 Series GE Flood Light .....   |  | 821.37       | 167.43     |
| 26 55 53 11-0018                                      | EA  | 250 Watt Metal Halide P-154 Series GE Flood Light .....   |  | 861.53       | 167.43     |
| 26 55 53 11-0019                                      | EA  | 400 Watt Metal Halide P-154 Series GE Flood Light .....   |  | 882.18       | 167.43     |
| 26 55 53 11-0020                                      |     | PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)<br>Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.                                |  |              |            |
| 26 55 53 11-0021                                      |     | High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)   |  |              |            |
| 26 55 53 11-0022                                      | EA  | 70 Watt High Pressure Sodium PF-154 Series GE Flood Light .....   |  | 851.75       | 188.36     |
| 26 55 53 11-0023                                      | EA  | 100 Watt High Pressure Sodium PF-154 Series GE Flood Light .....  |  | 857.49       | 188.36     |
| 26 55 53 11-0024                                      | EA  | 150 Watt High Pressure Sodium PF-154 Series GE Flood Light .....  |  | 866.67       | 188.36     |
| 26 55 53 11-0025                                      | EA  | 250 Watt High Pressure Sodium PF-154 Series GE Flood Light .....  |  | 956.17       | 188.36     |
| 26 55 53 11-0026                                      | EA  | 400 Watt High Pressure Sodium PF-154 Series GE Flood Light .....  |  | 981.41       | 188.36     |
| 26 55 53 11-0027                                      |     | Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)  |  |              |            |
| 26 55 53 11-0028                                      | EA  | 175 Watt Metal Halide PF-154 Series GE Flood Light .....  |  | 844.87       | 188.36     |
| 26 55 53 11-0029                                      | EA  | 250 Watt Metal Halide PF-154 Series GE Flood Light .....  |  | 883.88       | 188.36     |
| 26 55 53 11-0030                                      | EA  | 400 Watt Metal Halide PF-154 Series GE Flood Light .....  |  | 904.53       | 188.36     |
| 26 55 53 11-0031                                      |     | PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)<br>Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.      |  |              |            |
| 26 55 53 11-0032                                      |     | High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)   |  |              |            |
| 26 55 53 11-0033                                      | EA  | 150 Watt High Pressure Sodium PF-400 Series GE Flood Light .....  |  | 1,122.54     | 188.36     |
| 26 55 53 11-0034                                      | EA  | 200 Watt High Pressure Sodium PF-400 Series GE Flood Light .....  |  | 1,202.86     | 188.36     |
| 26 55 53 11-0035                                      | EA  | 250 Watt High Pressure Sodium PF-400 Series GE Flood Light .....  |  | 1,197.12     | 188.36     |
| 26 55 53 11-0036                                      | EA  | 400 Watt High Pressure Sodium PF-400 Series GE Flood Light .....  |  | 1,225.81     | 188.36     |
| 26 55 53 11-0037                                      |     | Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)  |  |              |            |
| 26 55 53 11-0038                                      | EA  | 175 Watt Metal Halide PF-400 Series GE Flood Light .....  |  | 1,152.37     | 188.36     |
| 26 55 53 11-0039                                      | EA  | 250 Watt Metal Halide PF-400 Series GE Flood Light .....  |  | 1,176.47     | 188.36     |
| 26 55 53 11-0040                                      | EA  | 400 Watt Metal Halide PF-400 Series GE Flood Light .....  |  | 1,201.71     | 188.36     |



|                                 |              |           |
|---------------------------------|--------------|-----------|
| <b>Electrical</b>               | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>                 | <b>26 50</b> |           |
| <b>Special Purpose Lighting</b> | <b>26 55</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small><br>Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.                   |                           |                         |
| 26 55 53 11-0042 High Pressure Sodium PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>   |                           |                         |
| 26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....   | 1,507.46                  | 209.30                  |
| 26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....   | 1,507.46                  | 209.30                  |
| 26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>   |                           |                         |
| 26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....   | 1,440.91                  | 209.30                  |
| 26 55 53 11-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights <small>(26 55 53 11-0001)</small><br>Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting. |                           |                         |
| 26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights <small>(26 55 53 11-0047)</small>   |                           |                         |
| 26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light .....  | 1,232.69                  | 188.36                  |
| 26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light .....  | 1,254.49                  | 188.36                  |
| 26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights <small>(26 55 53 11-0047)</small>   |                           |                         |
| 26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light .....  | 1,245.31                  | 188.36                  |
| 26 55 53 11-0053 Accessories For Powerflood GE Flood Lights <small>(26 55 53 11-0001)</small>  |                           |                         |
| 26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light .....  | 215.66                    | 41.86                   |
| 26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....   | 130.75                    | 41.86                   |
| 26 55 53 11-0056 EA Top Visor For Powerflood Flood Light .....   | 183.53                    | 41.86                   |
| 26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light .....  | 143.37                    | 41.86                   |
| 26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....  | 368.18                    | 125.57                  |
| 26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light .....  | 156.00                    | 41.86                   |
| 26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light .....   | 282.13                    | 125.57                  |
| 26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light .....  | 292.46                    | 125.57                  |
| 26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light .....  | 120.43                    | 41.86                   |
| 26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light .....  | 116.98                    | 41.86                   |
| 26 55 53 11-0064 Lithonia Contour Series Flood Lights <small>(26 55 53 11)</small>   |                           |                         |
| 26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small><br>Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.                             |                           |                         |
| 26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>   |                           |                         |
| 26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....  | 768.31                    | 167.43                  |
| 26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....   | 834.56                    | 167.43                  |
| 26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....   | 899.44                    | 167.43                  |
| 26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>   |                           |                         |
| 26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....  | 980.40                    | 167.43                  |
| 26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....  | 964.45                    | 167.43                  |
| 26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....   | 938.75                    | 167.43                  |
| 26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....   | 936.84                    | 167.43                  |
| 26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>  |                           |                         |
| 26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....   | 973.79                    | 167.43                  |
| 26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small><br>Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.   |                           |                         |
| 26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>   |                           |                         |
| 26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....   | 1,155.40                  | 188.36                  |
| 26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....   | 1,177.50                  | 188.36                  |
| 26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>   |                           |                         |
| 26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light.....   | 1,105.74                  | 188.36                  |
| 26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light.....   | 1,105.74                  | 188.36                  |
| 26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light.....   | 1,140.39                  | 188.36                  |

|    |       |                          |
|----|-------|--------------------------|
| 26 | 26    | Electrical               |
|    | 26 50 | Lighting                 |
|    | 26 55 | Special Purpose Lighting |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 55 53 11-0085</b> <b>TFR (Low Profile) Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small>   |                           |                         |
| <small>Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.</small>                      |                           |                         |
| <b>26 55 53 11-0086</b> <b>High Pressure Sodium TFR Lithonia Flood Lights</b> <small>(26 55 53 11-0085)</small>   |                           |                         |
| 26 55 53 11-0087    EA   150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light .....   | 1,102.53                  | 167.43                  |
| 26 55 53 11-0088    EA   250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light .....   | 1,135.59                  | 167.43                  |
| 26 55 53 11-0089    EA   400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light .....   | 1,163.22                  | 167.43                  |
| <b>26 55 53 11-0090</b> <b>Metal Halide TFR Lithonia Flood Lights</b> <small>(26 55 53 11-0085)</small>   |                           |                         |
| 26 55 53 11-0091    EA   250 Watt Metal Halide TFR Series Lithonia Flood Light .....  | 1,091.47                  | 167.43                  |
| 26 55 53 11-0092    EA   400 Watt Metal Halide TFR Series Lithonia Flood Light .....  | 1,124.58                  | 167.43                  |
| <b>26 55 53 11-0093</b> <b>TFA (Large Size) Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small>  |                           |                         |
| <small>Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.</small> |                           |                         |
| <b>26 55 53 11-0094</b> <b>High Pressure Sodium TFA Series Lithonia Flood Lights</b> <small>(26 55 53 11-0093)</small>  |                           |                         |
| 26 55 53 11-0095    EA   1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....   | 2,102.69                  | 209.30                  |
| <b>26 55 53 11-0096</b> <b>Metal Halide TFA Series Lithonia Flood Lights</b> <small>(26 55 53 11-0093)</small>  |                           |                         |
| 26 55 53 11-0097    EA   400 Watt Metal Halide TFA Series Lithonia Flood Light.....   | 1,633.33                  | 209.30                  |
| 26 55 53 11-0098    EA   1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....   | 1,798.97                  | 209.30                  |
| <b>26 55 53 11-0099</b> <b>Accessories For Contour Series Lithonia Flood Lights</b> <small>(26 55 53 11-0064)</small>   |                           |                         |
| 26 55 53 11-0100    EA   Wireguard For Contour Series Lithonia Flood Light.....   | 187.83                    | 41.86                   |
| 26 55 53 11-0101    EA   Vandal Guard For Contour Series Lithonia Flood Light .....   | 350.41                    | 41.86                   |
| 26 55 53 11-0102    EA   Upper Visor For Contour Series Lithonia Flood Light.....   | 157.14                    | 41.86                   |
| 26 55 53 11-0103    EA   Full Visor For Contour Series Lithonia Flood Light .....   | 206.83                    | 41.86                   |
| 26 55 53 11-0104    EA   Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light .....   | 471.98                    | 125.57                  |
| 26 55 53 11-0105    EA   Radius Wall Bracket For Contour Series Lithonia Flood Light.....   | 384.06                    | 125.57                  |
| 26 55 53 11-0106    EA   Steel Angle Bracket For Contour Series Lithonia Flood Light.....   | 384.06                    | 125.57                  |
| 26 55 53 11-0107    EA   U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe .....   | 419.13                    | 125.57                  |
| 26 55 53 11-0108    EA   Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light .....  | 180.28                    | 41.86                   |
| 26 55 53 11-0109    EA   120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light .....  | 146.59                    | 41.86                   |
| <b>26 55 53 11-0110</b> <b>Eaton Flood Lights</b> <small>(26 55 53 11)</small>  |                           |                         |
| 26 55 53 11-0111    EA   6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....   | 1,176.65                  | 167.43                  |
| <small>For NEMA Photocontrol Option (Eaton OA/RA1016), Add</small>  |                           |                         |
|   |                           | <small>59.40</small>    |
| <small>For &gt;50 To 100, Deduct</small>  |                           |                         |
|   |                           | <small>-37.79</small>   |
| <small>For &gt;100 To 250, Deduct</small>   |                           |                         |
|   |                           | <small>-67.20</small>   |
| <small>For &gt;250 To 500, Deduct</small>   |                           |                         |
|   |                           | <small>-117.67</small>  |
| <small>For &gt;500, Deduct</small>  |                           |                         |
|   |                           | <small>-168.13</small>  |
| 26 55 53 11-0112    EA   16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light .....  | 1,457.45                  | 185.55                  |
| <small>With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....</small>   |                           |                         |
|   |                           | <small>-45.71</small>   |
| <small>For &gt;50 To 100, Deduct</small>  |                           |                         |
|   |                           | <small>-82.15</small>   |
| <small>For &gt;100 To 250, Deduct</small>   |                           |                         |
|   |                           | <small>-145.75</small>  |
| <small>For &gt;250 To 500, Deduct</small>   |                           |                         |
|   |                           | <small>-209.34</small>  |
| <b>26 55 53 11-0113</b> <b>Ruud Flood Lights</b> <small>(26 55 53 11)</small>   |                           |                         |
| <b>26 55 53 11-0114</b> <b>NS (Micro) Series Ruud Flood Lights</b> <small>(26 55 53 11-0113)</small>  |                           |                         |
| <small>Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.</small>   |                           |                         |
| <b>26 55 53 11-0115</b> <b>High Pressure Sodium NS Series Ruud Flood Lights</b> <small>(26 55 53 11-0114)</small>   |                           |                         |
| 26 55 53 11-0116    EA   35 Watt High Pressure Sodium NS Series Ruud Flood Light .....  | 510.46                    | 125.57                  |
| 26 55 53 11-0117    EA   50 Watt High Pressure Sodium NS Series Ruud Flood Light .....  | 510.46                    | 125.57                  |
| 26 55 53 11-0118    EA   70 Watt High Pressure Sodium NS Series Ruud Flood Light .....  | 510.46                    | 125.57                  |
| 26 55 53 11-0119    EA   100 Watt High Pressure Sodium NS Series Ruud Flood Light .....   | 510.46                    | 125.57                  |
| 26 55 53 11-0120    EA   150 Watt High Pressure Sodium NS Series Ruud Flood Light .....   | 510.46                    | 125.57                  |
| <b>26 55 53 11-0121</b> <b>Metal Halide NS Series Ruud Flood Lights</b> <small>(26 55 53 11-0114)</small>   |                           |                         |
| 26 55 53 11-0122    EA   50 Watt Metal Halide NS Series Ruud Flood Light .....  | 574.72                    | 125.57                  |
| 26 55 53 11-0123    EA   70 Watt Metal Halide NS Series Ruud Flood Light .....  | 574.72                    | 125.57                  |
| 26 55 53 11-0124    EA   100 Watt Metal Halide NS Series Ruud Flood Light .....   | 574.72                    | 125.57                  |
| <b>26 55 53 11-0125</b> <b>Compact Fluorescent NS Series Ruud Flood Lights</b> <small>(26 55 53 11-0114)</small>  |                           |                         |
| 26 55 53 11-0126    EA   13 Watt Compact Fluorescent NS Series Ruud Flood Light .....   | 443.91                    | 125.57                  |
| 26 55 53 11-0127    EA   26 Watt Compact Fluorescent NS Series Ruud Flood Light .....   | 459.98                    | 125.57                  |
| 26 55 53 11-0128    EA   32 Watt Compact Fluorescent NS Series Ruud Flood Light .....   | 464.57                    | 125.57                  |
| 26 55 53 11-0129    EA   42 Watt Compact Fluorescent NS Series Ruud Flood Light .....   | 469.16                    | 125.57                  |



|                                 |              |           |
|---------------------------------|--------------|-----------|
| <b>Electrical</b>               | <b>26</b>    |           |
| <b>Lighting</b>                 | <b>26 50</b> | <b>26</b> |
| <b>Special Purpose Lighting</b> | <b>26 55</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights <small>(26 55 53 11-0130)</small><br>Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting. |                           |                         |
| 26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>  |                           |                         |
| 26 55 53 11-0132 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light .....   | 785.20                    | 188.36                  |
| 26 55 53 11-0133 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light .....   | 826.51                    | 188.36                  |
| 26 55 53 11-0134 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light .....   | 849.46                    | 188.36                  |
| 26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>  |                           |                         |
| 26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light .....   | 776.03                    | 188.36                  |
| 26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light .....   | 780.61                    | 188.36                  |
| 26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light .....   | 794.38                    | 188.36                  |
| 26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights <small>(26 55 53 11-0130)</small>   |                           |                         |
| 26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light .....   | 759.96                    | 188.36                  |
| 26 55 53 11-0141 FS (Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small><br>Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.   |                           |                         |
| 26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights <small>(26 55 53 11-0141)</small>   |                           |                         |
| 26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....   | 906.83                    | 188.36                  |
| 26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....   | 911.42                    | 188.36                  |
| 26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....   | 1,508.61                  | 209.30                  |
| 26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights <small>(26 55 53 11-0141)</small>   |                           |                         |
| 26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....   | 906.83                    | 188.36                  |
| 26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....   | 911.42                    | 188.36                  |
| 26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....   | 925.19                    | 188.36                  |
| 26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....   | 1,357.15                  | 209.30                  |
| 26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small><br>Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.   |                           |                         |
| 26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights <small>(26 55 53 11-0151)</small>  |                           |                         |
| 26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....   | 718.10                    | 167.43                  |
| 26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....   | 766.29                    | 167.43                  |
| 26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....   | 766.29                    | 167.43                  |
| 26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....  | 766.29                    | 167.43                  |
| 26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....  | 766.29                    | 167.43                  |
| 26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights <small>(26 55 53 11-0151)</small>  |                           |                         |
| 26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....   | 782.36                    | 167.43                  |
| 26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....   | 782.36                    | 167.43                  |
| 26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....  | 782.36                    | 167.43                  |
| 26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....  | 757.11                    | 167.43                  |
| 26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff, Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small><br>Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.                                    |                           |                         |
| 26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights <small>(26 55 53 11-0163)</small>  |                           |                         |
| 26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light .....  | 775.47                    | 167.43                  |
| 26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light .....  | 823.66                    | 167.43                  |
| 26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light .....  | 823.66                    | 167.43                  |
| 26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....  | 823.66                    | 167.43                  |
| 26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light .....   | 823.66                    | 167.43                  |
| 26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights <small>(26 55 53 11-0163)</small>  |                           |                         |
| 26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light .....  | 839.73                    | 167.43                  |
| 26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light .....  | 839.73                    | 167.43                  |
| 26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light .....   | 839.73                    | 167.43                  |
| 26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light .....   | 814.48                    | 167.43                  |
| 26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small><br>Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.   |                           |                         |

|              |                                 |
|--------------|---------------------------------|
| <b>26</b>    | <b>Electrical</b>               |
| <b>26 50</b> | <b>Lighting</b>                 |
| <b>26 55</b> | <b>Special Purpose Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 55 53 11-0176</b> High Pressure Sodium CF Series Ruud Flood Lights <small>(26 55 53 11-0175)</small>   |                           |                         |
| 26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....  | 1,014.68                  | 188.36                  |
| 26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....  | 1,037.63                  | 188.36                  |
| 26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....  | 1,565.98                  | 209.30                  |
| <b>26 55 53 11-0180</b> Metal Halide CF Series Ruud Flood Lights <small>(26 55 53 11-0175)</small>   |                           |                         |
| 26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light .....   | 964.20                    | 188.36                  |
| 26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light .....   | 968.79                    | 188.36                  |
| 26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light .....   | 982.56                    | 188.36                  |
| 26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light .....   | 1,414.52                  | 209.30                  |
| <b>26 55 53 11-0185</b> CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>  |                           |                         |
| Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.  |                           |                         |
| <b>26 55 53 11-0186</b> High Pressure Sodium CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>   |                           |                         |
| 26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....   | 1,299.78                  | 209.30                  |
| 26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....   | 1,538.44                  | 209.30                  |
| <b>26 55 53 11-0189</b> Metal Halide CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>   |                           |                         |
| 26 55 53 11-0190 EA 400 Watt Metal Halide CN Series Ruud Flood Light .....   | 1,244.71                  | 209.30                  |
| 26 55 53 11-0191 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....  | 1,386.99                  | 209.30                  |
| <b>26 55 53 11-0192</b> PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>  |                           |                         |
| Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.  |                           |                         |
| <b>26 55 53 11-0193</b> High Pressure Sodium PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>  |                           |                         |
| 26 55 53 11-0194 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....   | 1,046.81                  | 188.36                  |
| 26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....   | 1,069.76                  | 188.36                  |
| <b>26 55 53 11-0196</b> Metal Halide PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>  |                           |                         |
| 26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light .....  | 996.33                    | 188.36                  |
| 26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....   | 1,000.92                  | 188.36                  |
| 26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....   | 1,014.68                  | 188.36                  |
| 26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....   | 1,446.65                  | 209.30                  |
| <b>26 55 53 11-0201</b> Accessories For Ruud Flood Lighting <small>(26 55 53 11-0113)</small>  |                           |                         |
| 26 55 53 11-0202 EA Wireguard For Ruud Flood Light.....  | 118.13                    | 41.86                   |
| 26 55 53 11-0203 EA Deep Baffle (Full Visor) For Ruud Flood Light .....  | 180.09                    | 41.86                   |
| 26 55 53 11-0204 EA Glare Guard (Upper Visor) For Ruud Flood Light .....   | 134.20                    | 41.86                   |
| 26 55 53 11-0205 EA Vandal Shield For Ruud Flood Light .....   | 157.14                    | 41.86                   |
| 26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light .....   | 329.17                    | 125.57                  |
| 26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....  | 104.36                    | 41.86                   |
| <b>26 55 53 11-0208</b> Lumark Flood Lights <small>(26 55 53 11)</small>   |                           |                         |
| <b>26 55 53 11-0209</b> QZ Wedge Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small>   |                           |                         |
| Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.   |                           |                         |
| 26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....  | 298.08                    | 125.57                  |
| <b>26 55 53 11-0211</b> LQL Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small>  |                           |                         |
| Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.   |                           |                         |
| 26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light .....  | 365.78                    | 125.57                  |
| <b>26 55 53 11-0213</b> Kim Lighting <small>(26 55 53 11)</small>  |                           |                         |
| <b>26 55 53 11-0214</b> MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small>   |                           |                         |
| Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle. |                           |                         |
| <b>26 55 53 11-0215</b> LED MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0214)</small>   |                           |                         |
| 26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....   | 559.66                    | 53.90                   |
| For >50 To 100, Deduct   | -16.69                    |                         |
| For >100 To 250, Deduct  | -30.68                    |                         |
| For >250 To 500, Deduct  | -55.97                    |                         |
| For >500, Deduct   | -81.25                    |                         |
| 26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....  | 687.02                    | 53.90                   |
| For >50 To 100, Deduct   | -19.87                    |                         |
| For >100 To 250, Deduct  | -37.05                    |                         |
| For >250 To 500, Deduct  | -68.70                    |                         |
| For >500, Deduct   | -100.36                   |                         |



|                                 |              |           |
|---------------------------------|--------------|-----------|
| <b>Electrical</b>               | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>                 | <b>26 50</b> |           |
| <b>Special Purpose Lighting</b> | <b>26 55</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small><br>Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.  |                           |                         |
| 26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights <small>(26 55 53 11-0218)</small><br>Note: Spot or narrow style accent flood lights.  |                           |                         |
| 26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....  | 843.48                    | 53.90                   |
| For >50 To 100, Deduct   | -23.78                    |                         |
| For >100 To 250, Deduct  | -44.87                    |                         |
| For >250 To 500, Deduct  | -84.35                    |                         |
| For >500, Deduct   | -123.83                   |                         |
| 26 55 53 11-0221 CREE® BetaLED® Flood Lights <small>(26 55 53 11)</small>  |                           |                         |
| 26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) <small>(26 55 53 11-0221)</small><br>Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.                      |                           |                         |
| 26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....  | 1,348.84                  | 151.82                  |
| For >50 To 100, Deduct   | -41.31                    |                         |
| For >100 To 250, Deduct  | -75.03                    |                         |
| For >250 To 500, Deduct  | -134.88                   |                         |
| For >500, Deduct   | -194.74                   |                         |
| 26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....  | 1,476.34                  | 160.24                  |
| For >50 To 100, Deduct   | -44.92                    |                         |
| For >100 To 250, Deduct  | -81.63                    |                         |
| For >250 To 500, Deduct  | -147.63                   |                         |
| For >500, Deduct   | -213.44                   |                         |
| 26 55 53 11-0225 Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) <small>(26 55 53 11-0221)</small><br>Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 55 53 11-0226 EA 20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 1,173.67                  | 143.39                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -36.51                    |                         |
| For >100 To 250, Deduct  | -65.85                    |                         |
| For >250 To 500, Deduct  | -117.37                   |                         |
| For >500, Deduct   | -168.88                   |                         |
| 26 55 53 11-0227 EA 40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 1,470.91                  | 151.82                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -44.36                    |                         |
| For >100 To 250, Deduct  | -81.14                    |                         |
| For >250 To 500, Deduct  | -147.09                   |                         |
| For >500, Deduct   | -213.05                   |                         |
| 26 55 53 11-0228 EA 60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 1,768.16                  | 160.24                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -52.22                    |                         |
| For >100 To 250, Deduct  | -96.42                    |                         |
| For >250 To 500, Deduct  | -176.82                   |                         |
| For >500, Deduct   | -257.21                   |                         |
| 26 55 53 11-0229 EA 80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 2,177.94                  | 168.68                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -62.88                    |                         |
| For >100 To 250, Deduct  | -117.33                   |                         |
| For >250 To 500, Deduct  | -217.79                   |                         |
| For >500, Deduct   | -318.26                   |                         |
| 26 55 53 11-0230 EA 100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 2,475.19                  | 177.11                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -70.74                    |                         |
| For >100 To 250, Deduct  | -132.62                   |                         |
| For >250 To 500, Deduct  | -247.52                   |                         |
| For >500, Deduct   | -362.42                   |                         |
| 26 55 53 11-0231 EA 120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 2,772.43                  | 185.55                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -78.59                    |                         |
| For >100 To 250, Deduct  | -147.90                   |                         |
| For >250 To 500, Deduct  | -277.24                   |                         |
| For >500, Deduct   | -406.59                   |                         |
| 26 55 53 11-0232 EA 140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....   | 3,159.32                  | 193.98                  |
| For 480 Volt, Add  | 107.03                    |                         |
| For >50 To 100, Deduct   | -88.68                    |                         |
| For >100 To 250, Deduct  | -167.67                   |                         |
| For >250 To 500, Deduct  | -315.93                   |                         |
| For >500, Deduct   | -464.20                   |                         |

|              |                                 |
|--------------|---------------------------------|
| <b>26</b>    | <b>Electrical</b>               |
| <b>26 50</b> | <b>Lighting</b>                 |
| <b>26 55</b> | <b>Special Purpose Lighting</b> |



| MINOR           | CSI            | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-----------------|----------------|-----|---|------------------------|----------------------|
| 26 55 53        | 11-0233        | EA  | 160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....  | 3,456.56               | 202.42               |
|                 |                |     | For 480 Volt, Add   | 107.03                 |                      |
|                 |                |     | For >50 To 100, Deduct  | -96.54                 |                      |
|                 |                |     | For >100 To 250, Deduct   | -182.95                |                      |
|                 |                |     | For >250 To 500, Deduct   | -345.66                |                      |
|                 |                |     | For >500, Deduct  | -508.36                |                      |
| <b>26 55 53</b> | <b>11-0234</b> |     | <b>Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights<br/>(CREE® BetaLED® Edge® FLD-EHO) (26 55 53 11-0221)</b>   |                        |                      |
|                 |                |     | Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.                       |                        |                      |
| 26 55 53        | 11-0235        | EA  | 120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....   | 2,659.90               | 185.55               |
|                 |                |     | For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                  |                      |
|                 |                |     | For Bird Spikes, Add  | 54.00                  |                      |
|                 |                |     | For 5,000K Color Temperature, Add   | 56.24                  |                      |
|                 |                |     | For Fuse, Add   | 67.48                  |                      |
|                 |                |     | For 0 To 10 Volt Dimming, Add   | 67.48                  |                      |
|                 |                |     | For 480 Volt, Add   | 101.23                 |                      |
|                 |                |     | For Multi-Level, Add  | 146.21                 |                      |
|                 |                |     | For 1,000mA Driver, Add   | 188.96                 |                      |
|                 |                |     | For >50 To 100, Deduct  | -75.78                 |                      |
|                 |                |     | For >100 To 250, Deduct   | -142.27                |                      |
|                 |                |     | For >250 To 500, Deduct   | -265.99                |                      |
|                 |                |     | For >500, Deduct  | -389.71                |                      |
| 26 55 53        | 11-0236        | EA  | 240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....   | 4,492.13               | 227.72               |
|                 |                |     | For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                  |                      |
|                 |                |     | For 5,000K Color Temperature, Add   | 56.24                  |                      |
|                 |                |     | For Fuse, Add   | 67.48                  |                      |
|                 |                |     | For 0 To 10 Volt Dimming, Add   | 67.48                  |                      |
|                 |                |     | For Bird Spikes, Add  | 79.47                  |                      |
|                 |                |     | For Multi-Level, Add  | 146.21                 |                      |
|                 |                |     | For 1,000mA Driver, Add   | 188.96                 |                      |
|                 |                |     | For 480 Volt, Add   | 202.45                 |                      |
|                 |                |     | For >50 To 100, Deduct  | -123.69                |                      |
|                 |                |     | For >100 To 250, Deduct   | -235.99                |                      |
|                 |                |     | For >250 To 500, Deduct   | -449.21                |                      |
|                 |                |     | For >500, Deduct  | -662.43                |                      |
| <b>26 55 53</b> | <b>11-0237</b> |     | <b>Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) (26 55 53 11-0221)</b>  |                        |                      |
|                 |                |     | Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                        |                      |
| 26 55 53        | 11-0238        | EA  | 112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL) .....  | 1,575.74               | 185.55               |
|                 |                |     | For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                  |                      |
|                 |                |     | For Front Facing Optics, Back Light Shield, Add   | 42.17                  |                      |
|                 |                |     | For Rotated Optics, Back Light Shield, Add  | 42.17                  |                      |
|                 |                |     | For Field Adjustable Output, Add  | 33.75                  |                      |
|                 |                |     | For Fuse, Add   | 67.48                  |                      |
|                 |                |     | For 0 To 10 Volt Dimming, Add   | 67.48                  |                      |
|                 |                |     | For Multi-Level, Add  | 146.21                 |                      |
|                 |                |     | For >50 To 100, Deduct  | -48.67                 |                      |
|                 |                |     | For >100 To 250, Deduct   | -88.06                 |                      |
|                 |                |     | For >250 To 500, Deduct   | -157.57                |                      |
|                 |                |     | For >500, Deduct  | -227.08                |                      |
| 26 55 53        | 11-0239        | EA  | 168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL) .....  | 1,682.03               | 185.55               |
|                 |                |     | Note: Type III, IV or V medium optics only.   |                        |                      |
|                 |                |     | For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                  |                      |
|                 |                |     | For Front Facing Optics, Back Light Shield, Add   | 42.17                  |                      |
|                 |                |     | For Rotated Optics, Back Light Shield, Add  | 42.17                  |                      |
|                 |                |     | For Field Adjustable Output, Add  | 33.75                  |                      |
|                 |                |     | For Fuse, Add   | 67.48                  |                      |
|                 |                |     | For 0 To 10 Volt Dimming, Add   | 67.48                  |                      |
|                 |                |     | For Type II Medium Or Type V Short Optics, Add  | 270.14                 |                      |
|                 |                |     | For Multi-Level, Add  | 146.21                 |                      |
|                 |                |     | For >50 To 100, Deduct  | -51.33                 |                      |
|                 |                |     | For >100 To 250, Deduct   | -93.38                 |                      |
|                 |                |     | For >250 To 500, Deduct   | -168.20                |                      |
|                 |                |     | For >500, Deduct  | -243.03                |                      |



|                                 |              |           |
|---------------------------------|--------------|-----------|
| <b>Electrical</b>               | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>                 | <b>26 50</b> |           |
| <b>Special Purpose Lighting</b> | <b>26 55</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|---|----------------------|
| 26 55 53 11-0240        | EA  |     | 223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL) .....<br><i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i><br><i>For Field Adjustable Output, Add</i><br><i>For Front Facing Optics, Back Light Shield, Add</i><br><i>For Rotated Optics, Back Light Shield, Add</i><br><i>For Fuse, Add</i><br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For Multi-Level, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i> | 2,156.10<br>22.49<br>33.75<br>51.11<br>51.11<br>67.48<br>67.48<br>146.21<br>-65.29<br>-119.19<br>-215.61<br>-312.03 | 227.72               |
| <b>26 55 53 11-0241</b> |     |     | <b>PlanLED Flood Lights</b> <small>(26 55 53 11)</small>  |   |                      |
| <b>26 55 53 11-0242</b> |     |     | <b>Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA)</b> <small>(26 55 53 11-0241)</small>  |   |                      |
| 26 55 53 11-0243        | EA  |     | 6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 714.79<br>-25.46<br>-43.33<br>-71.48<br>-99.63  | 151.82               |
| 26 55 53 11-0244        | EA  |     | 9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 847.63<br>-29.20<br>-50.39<br>-84.76<br>-119.13   | 160.24               |
| 26 55 53 11-0245        | EA  |     | 12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 974.13<br>-33.00<br>-57.35<br>-97.41<br>-137.47   | 172.90               |
| <b>26 55 53 11-0246</b> |     |     | <b>Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA)</b> <small>(26 55 53 11-0241)</small>   |   |                      |
| 26 55 53 11-0247        | EA  |     | 21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200) .....<br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 1,971.47<br>91.12<br>-66.16<br>-115.44<br>-197.15<br>-278.85  | 337.37               |
| 26 55 53 11-0248        | EA  |     | 42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400) .....<br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 2,994.10<br>91.12<br>-91.72<br>-166.57<br>-299.41<br>-432.25  | 337.37               |
| 26 55 53 11-0249        | EA  |     | 84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800) .....<br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 5,195.37<br>91.12<br>-146.75<br>-276.64<br>-519.54<br>-762.44   | 337.37               |
| <b>26 55 53 11-0250</b> |     |     | <b>Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA)</b> <small>(26 55 53 11-0241)</small>  |   |                      |
| 26 55 53 11-0251        | EA  |     | 26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200) .....<br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For 480 Volt, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 2,718.44<br>91.12<br>137.05<br>-53.93<br>-96.89<br>-171.84<br>-246.80   | 219.29               |
| 26 55 53 11-0252        | EA  |     | 39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300) .....<br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For 480 Volt, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 2,182.32<br>91.12<br>110.76<br>-65.94<br>-120.50<br>-218.23<br>-315.96  | 227.72               |
| 26 55 53 11-0253        | EA  |     | 52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400) .....<br><i>For 0 To 10 Volt Dimming, Add</i><br><i>For 480 Volt, Add</i><br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500, Deduct</i>  | 2,766.36<br>91.12<br>89.83<br>-80.97<br>-150.13<br>-276.64<br>-403.15   | 236.16               |

**26 55 53 12 Security Hazardous Location Flood Lights** (26 55 53)

Note: For general to heavy industrial applications in marine and corrosive environments. Class 1 Division 2.



|           |                                       |
|-----------|---------------------------------------|
| <b>26</b> | <b>26 Electrical</b>                  |
|           | <b>26 50 Lighting</b>                 |
|           | <b>26 55 Special Purpose Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 55 53 12-0001 Lithonia Hazardous Location Flood Lights <small>(26 55 53 12)</small>   |                           |                         |
| 26 55 53 12-0002 HFR (Horizontally Oriented Mogul Base) Series Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small><br>Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting. |                           |                         |
| 26 55 53 12-0003 High Pressure Sodium HFR Series Hazardous Location Flood Lights <small>(26 55 53 12-0002)</small>   |                           |                         |
| 26 55 53 12-0004 EA 150 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,092.87                  | 167.43                  |
| 26 55 53 12-0005 EA 250 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,164.00                  | 167.43                  |
| 26 55 53 12-0006 EA 400 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,095.16                  | 167.43                  |
| 26 55 53 12-0007 Metal Halide HFR Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0002)</small>  |                           |                         |
| 26 55 53 12-0008 EA 250 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,156.41                  | 167.43                  |
| 26 55 53 12-0009 EA 400 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,122.70                  | 167.43                  |
| 26 55 53 12-0010 HFM (Medium Base) Series Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small><br>Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.                      |                           |                         |
| 26 55 53 12-0011 High Pressure Sodium HFM Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0010)</small>  |                           |                         |
| 26 55 53 12-0012 EA 100 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,043.96                  | 167.43                  |
| 26 55 53 12-0013 EA 150 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,086.42                  | 167.43                  |
| 26 55 53 12-0014 Metal Halide HFM Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0010)</small>  |                           |                         |
| 26 55 53 12-0015 EA 175 Watt Metal Halide HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 929.22                    | 167.43                  |
| 26 55 53 12-0016 HFA (Large) Series Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small><br>Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.                            |                           |                         |
| 26 55 53 12-0017 High Pressure Sodium HFA Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0016)</small>  |                           |                         |
| 26 55 53 12-0018 EA 250 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,467.30                  | 209.30                  |
| 26 55 53 12-0019 EA 400 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,487.96                  | 209.30                  |
| 26 55 53 12-0020 Metal Halide HFA Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0016)</small>  |                           |                         |
| 26 55 53 12-0021 EA 250 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,460.42                  | 209.30                  |
| 26 55 53 12-0022 EA 400 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,487.96                  | 209.30                  |
| 26 55 53 12-0023 HFL (Medium) Series Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small><br>Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.                           |                           |                         |
| 26 55 53 12-0024 High Pressure Sodium HFL Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0023)</small>  |                           |                         |
| 26 55 53 12-0025 EA 400 Watt High Pressure Sodium HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,099.59                  | 188.36                  |
| 26 55 53 12-0026 Metal Halide HFL Series Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0023)</small>  |                           |                         |
| 26 55 53 12-0027 EA 400 Watt Metal Halide HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....   | 1,179.91                  | 188.36                  |
| 26 55 53 12-0028 Accessories For Lithonia Hazardous Location Flood Lights <small>(26 55 53 12-0001)</small><br>See CSI section 26 55 53 11-0099 for accessories.   |                           |                         |
| <b>26 55 53 13 Security High Performance Flood Lights <small>(26 55 53)</small></b><br>Note: For airport aprons and parking areas.   |                           |                         |
| 26 55 53 13-0001 Lithonia High Performance Flood Lights <small>(26 55 53 13)</small>   |                           |                         |
| 26 55 53 13-0002 170S Series Lithonia High Performance Flood Lights <small>(26 55 53 13-0001)</small><br>Note: Die-cast aluminum housing welded seams, stainless steel hardware, corrosion resistant polyester powder finish, and thermal and shock resistant flat lens.                               |                           |                         |
| 26 55 53 13-0003 High Pressure Sodium 170S Series Lithonia High Performance Flood Lights <small>(26 55 53 13-0002)</small>   |                           |                         |
| 26 55 53 13-0004 EA 250 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....  | 2,496.48                  | 251.15                  |
| 26 55 53 13-0005 EA 400 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....  | 2,684.65                  | 251.15                  |
| 26 55 53 13-0006 EA 750 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....  | 2,693.83                  | 251.15                  |
| 26 55 53 13-0007 EA 1,000 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....  | 2,980.68                  | 251.15                  |



|                                 |              |           |
|---------------------------------|--------------|-----------|
| <b>Electrical</b>               | <b>26</b>    |           |
| <b>Lighting</b>                 | <b>26 50</b> | <b>26</b> |
| <b>Special Purpose Lighting</b> | <b>26 55</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>26 55 53 13-0008 Metal Halide 170S Series Lithonia High Performance Flood Lights</b> <small>(26 55 53 13-0002)</small>  |                           |                         |
| 26 55 53 13-0009 EA 320 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....   | 2,861.35                  | 251.15                  |
| 26 55 53 13-0010 EA 350 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....   | 2,734.11                  | 251.15                  |
| 26 55 53 13-0011 EA 400 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....   | 2,613.52                  | 251.15                  |
| 26 55 53 13-0012 EA 1,000 Watt Metal Halide 170S Series Lithonia High Performance Flood Light.....   | 2,732.85                  | 251.15                  |
| <b>26 55 53 13-0013 Accessories For Lithonia High Performance Flood Lights</b> <small>(26 55 53 13-0002)</small><br>See CSI section 26 55 53 11-0099 for accessories.  |                           |                         |
| <b>26 55 61 Theatrical Lighting</b> <small>(26 55)</small>   |                           |                         |
| <b>26 55 61 00-0001 Stage Lighting</b> <small>(26 55 61)</small>   |                           |                         |
| 26 55 61 00-0002 EA Ellipsoidal Spotlight, Two 6" x 9" Lenses.....   | 700.69                    | 186.93                  |
| Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.  |                           |                         |
| 26 55 61 00-0003 EA Ellipsoidal Spotlight, Two 6" x 12" Lenses.....  | 700.69                    | 186.93                  |
| Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.  |                           |                         |
| 26 55 61 00-0004 EA Ellipsoidal Spotlight, Two 6" x 16" Lenses.....  | 700.69                    | 186.93                  |
| Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.  |                           |                         |
| 26 55 61 00-0005 EA 14" Scoop Floodlight Altman #SC14.....   | 721.32                    | 186.93                  |
| 26 55 61 00-0006 EA 6" Diameter Fresnel Spotlight, Spherical Specular Alzak1.....  | 581.65                    | 186.93                  |
| Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, c-clamp, safety cable, color frame, male pin connector and lamp.   |                           |                         |
| 26 55 61 00-0007 EA 8" Diameter Fresnel Spotlight, Spherical Specular Alzak.....   | 914.93                    | 186.93                  |
| Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, C-clamp, safety cable, color frame, male pin connector and lamp.   |                           |                         |
| 26 55 61 00-0008 EA Follow Spotlight With Steel Chassis And Lightweight.....   | 2,303.16                  | 186.93                  |
| Note: Aluminum housing, includes lamp adjustment plate, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.   |                           |                         |
| 26 55 61 00-0009 EA Follow Spotlight With Steel Chassis And Lightweight.....   | 2,762.81                  | 186.93                  |
| Note: Aluminum housing, includes lamp adjustment plate, ballast, electronic power supply, stepdown transformer, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand. |                           |                         |
| 26 55 61 00-0010 EA 300 To 1000 Watt, PAR 64 Can Lighting With 20 Gauge Sheet Steel.....   | 535.39                    | 186.93                  |
| Note: Formed lamp housing, hinged and latched rear housing secured by retention ring, safety cable, safety screen, PAR 64 lamp, male pin connector.  |                           |                         |
| 26 55 61 00-0011 EA 6' Length, Multi-Lamp Compartmented Striplighting Luminaire.....   | 1,768.44                  | 186.93                  |
| Note: With continuous sheet steel housing, supported by 1-1/2" x 3/16" steel yoke with C-clamp, includes 30 lights per section wired on 3 circuits, alzak aluminum reflector with matte finish.  |                           |                         |
| 26 55 61 00-0012 EA 1,000 Watt, 25 To 125' Throw, Follow Spotlight (Times Square Lighting QF1000S).....  | 2,973.00                  | 186.93                  |
| <b>26 55 68 Athletic Field Lighting</b> <small>(26 55)</small>   |                           |                         |
| <b>26 55 68 00-0001 Sports Lighting System</b> <small>(26 55 68)</small><br>Note: Musco.   |                           |                         |
| <b>26 55 68 00-0002 Round Steel Tapered Poles</b> <small>(26 55 68 00-0001)</small><br>Note: With Internal wiring harness.   |                           |                         |
| 26 55 68 00-0003 EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 4,361.37                  | 803.68                  |
| 26 55 68 00-0004 EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 5,249.18                  | 971.11                  |
| 26 55 68 00-0005 EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 5,905.34                  | 1,054.83                |
| 26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 6,442.12                  | 1,096.69                |
| 26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 8,016.99                  | 1,138.55                |
| 26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 9,223.35                  | 1,389.69                |
| 26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 9,906.30                  | 1,473.41                |
| 26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 11,253.25                 | 1,674.33                |
| 26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 12,771.60                 | 1,883.63                |
| 26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 14,080.25                 | 2,056.80                |
| 26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 15,371.85                 | 2,298.77                |
| 26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 16,778.47                 | 2,581.09                |
| 26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....  | 18,875.24                 | 3,105.37                |
| <b>26 55 68 00-0016 Steel Pole Brackets</b> <small>(26 55 68 00-0001)</small>  |                           |                         |
| 26 55 68 00-0017 EA Two Light Bracket.....   | 697.21                    | 83.71                   |
| 26 55 68 00-0018 EA Three Light Bracket.....   | 877.81                    | 117.21                  |
| 26 55 68 00-0019 EA Four Light Bracket.....  | 1,263.77                  | 142.32                  |
| 26 55 68 00-0020 EA Five Light Bracket.....  | 1,440.41                  | 167.43                  |
| 26 55 68 00-0021 EA Six Light Bracket.....   | 1,746.54                  | 192.55                  |
| 26 55 68 00-0022 EA Seven Light Bracket.....   | 1,999.83                  | 217.66                  |
| 26 55 68 00-0023 EA Eight Light Bracket.....   | 2,286.26                  | 251.15                  |
| 26 55 68 00-0024 EA Nine Light Bracket.....  | 2,582.71                  | 276.27                  |
| <b>26 55 68 00-0025 Light Fixtures</b> <small>(26 55 68 00-0001)</small>   |                           |                         |
| 26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug.....  | 1,556.09                  |                         |
| <i>For 1,500 Watt Metal Halide Lamp, Add</i>   | <i>15.05</i>              |                         |

|              |                                 |
|--------------|---------------------------------|
| <b>26</b>    | <b>Electrical</b>               |
| <b>26 50</b> | <b>Lighting</b>                 |
| <b>26 55</b> | <b>Special Purpose Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |   |           |        |
|-------------------------|---|-----------|--------|
| <b>26 55 68 00-0027</b> | <b>Electrical Component Enclosure</b> <small>(26 55 68 00-0001)</small><br>Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures. |           |        |
| 26 55 68 00-0028 EA     | Electrical Component Enclosure For 2 Lights, Pole Mounted .....   | 1,050.98  | 99.98  |
| 26 55 68 00-0029 EA     | Electrical Component Enclosure For 3 Lights, Pole Mounted .....   | 1,578.49  | 153.82 |
| 26 55 68 00-0030 EA     | Electrical Component Enclosure For 4 Lights, Pole Mounted .....   | 1,809.83  | 192.28 |
| 26 55 68 00-0031 EA     | Electrical Component Enclosure For 5 Lights, Pole Mounted .....   | 2,336.97  | 215.35 |
| 26 55 68 00-0032 EA     | Electrical Component Enclosure For 6 Lights, Pole Mounted .....   | 2,625.06  | 230.73 |
| <b>26 55 68 00-0033</b> | <b>Accessories</b> <small>(26 55 68 00-0001)</small>  |           |        |
| 26 55 68 00-0034 EA     | Time Delay Kit (Musco®) .....   | 1,147.22  | 308.04 |
| 26 55 68 00-0035 EA     | Remote Switch Box Push Button (Musco®) .....  | 2,209.52  | 308.04 |
| 26 55 68 00-0036 EA     | Push Button Strobe Kit (Musco®) .....   | 2,634.43  | 308.04 |
| 26 55 68 00-0037 EA     | Additional Control-Link Unit (Musco®) .....   | 12,471.14 | 924.12 |
| 26 55 68 00-0038 EA     | Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®) .....  | 1,369.94  | 153.82 |
| 26 55 68 00-0039 EA     | Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®) .....  | 1,677.57  | 307.65 |

**26 56 Exterior Lighting** (26 50)

**26 56 13 Lighting Poles and Standards** (26 56)

|                         |   |          |        |
|-------------------------|---|----------|--------|
| <b>26 56 13 00-0001</b> | <b>Poles And Standards</b> <small>(26 56 13)</small><br>See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.  |          |        |
| <b>26 56 13 00-0002</b> | <b>Roadway Light Poles</b> <small>(26 56 13 00-0001)</small><br>Note: Excludes lighting fixtures.   |          |        |
| <b>26 56 13 00-0003</b> | <b>Steel Roadway Light Poles</b> <small>(26 56 13 00-0002)</small><br>Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s). |          |        |
| <b>26 56 13 00-0004</b> | <b>Round Tapered, Steel Roadway Light Poles</b> <small>(26 56 13 00-0003)</small>   |          |        |
| <b>26 56 13 00-0005</b> | <b>Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms</b> <small>(26 56 13 00-0004)</small>   |          |        |
| <b>26 56 13 00-0006</b> | <b>Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm</b> <small>(26 56 13 00-0005)</small>   |          |        |
| 26 56 13 00-0007 EA     | 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....  | 3,608.28 | 502.30 |
|                         | For Galvanized Finish, Add .....  | 78.11    |        |
|                         | For >10 To 20, Deduct .....   | -90.21   |        |
|                         | For >20 To 40, Deduct .....   | -180.41  |        |
|                         | For >40, Deduct .....   | -295.74  |        |
| 26 56 13 00-0008 EA     | 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....  | 3,614.71 | 502.30 |
|                         | For Galvanized Finish, Add .....  | 78.30    |        |
|                         | For >10 To 20, Deduct .....   | -90.37   |        |
|                         | For >20 To 40, Deduct .....   | -180.74  |        |
|                         | For >40, Deduct .....   | -296.22  |        |
| 26 56 13 00-0009 EA     | 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....  | 3,987.71 | 669.74 |
|                         | For Galvanized Finish, Add .....  | 79.45    |        |
|                         | For >10 To 20, Deduct .....   | -99.69   |        |
|                         | For >20 To 40, Deduct .....   | -199.39  |        |
|                         | For >40, Deduct .....   | -332.57  |        |
| 26 56 13 00-0010 EA     | 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....  | 4,065.09 | 669.74 |
|                         | For Galvanized Finish, Add .....  | 81.77    |        |
|                         | For >10 To 20, Deduct .....   | -101.63  |        |
|                         | For >20 To 40, Deduct .....   | -203.25  |        |
|                         | For >40, Deduct .....   | -338.37  |        |
| 26 56 13 00-0011 EA     | 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base .....  | 4,142.47 | 669.74 |
|                         | For Galvanized Finish, Add .....  | 84.09    |        |
|                         | For >10 To 20, Deduct .....   | -103.56  |        |
|                         | For >20 To 40, Deduct .....   | -207.12  |        |
|                         | For >40, Deduct .....   | -344.17  |        |
| 26 56 13 00-0012 EA     | 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....  | 4,326.20 | 753.45 |
|                         | For Galvanized Finish, Add .....  | 84.58    |        |
|                         | For >10 To 20, Deduct .....   | -108.16  |        |
|                         | For >20 To 40, Deduct .....   | -216.31  |        |
|                         | For >40, Deduct .....   | -362.14  |        |
| 26 56 13 00-0013 EA     | 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....  | 4,362.90 | 753.45 |
|                         | For Galvanized Finish, Add .....  | 85.68    |        |
|                         | For >10 To 20, Deduct .....   | -109.07  |        |
|                         | For >20 To 40, Deduct .....   | -218.15  |        |
|                         | For >40, Deduct .....   | -364.89  |        |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 56 13 00-0014 | EA  |     | 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base..... | 4,369.88               | 753.45               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 85.89                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -109.25                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -218.49                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -365.41                |                      |
| 26 56 13 00-0015 | EA  |     | 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base..... | 4,583.86               | 795.31               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 89.80                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -114.60                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -229.19                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -383.56                |                      |
| 26 56 13 00-0016 | EA  |     | 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base..... | 4,611.58               | 795.31               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 90.63                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -115.29                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -230.58                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -385.63                |                      |
| 26 56 13 00-0017 | EA  |     | 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base..... | 4,641.84               | 795.31               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 91.54                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -116.05                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -232.09                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -387.90                |                      |
| 26 56 13 00-0018 | EA  |     | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base..... | 5,267.66               | 837.16               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 107.80                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -131.69                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -263.38                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -436.93                |                      |
| 26 56 13 00-0019 | EA  |     | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base..... | 5,277.53               | 837.16               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 108.10                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -131.94                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -263.88                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -437.67                |                      |
| 26 56 13 00-0020 | EA  |     | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base..... | 5,287.28               | 837.16               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 108.39                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -132.18                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -264.36                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -438.40                |                      |

**26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms**  
(26 56 13 00-0005)

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 26 56 13 00-0022 | EA |  | 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base..... | 4,478.01 | 586.02 |
|                  |    |  | <i>For Galvanized Finish, Add</i>   | 99.18    |        |
|                  |    |  | <i>For &gt;10 To 20, Deduct</i>   | -111.95  |        |
|                  |    |  | <i>For &gt;20 To 40, Deduct</i>   | -223.90  |        |
|                  |    |  | <i>For &gt;40, Deduct</i>   | -365.15  |        |
| 26 56 13 00-0023 | EA |  | 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base..... | 4,561.22 | 606.94 |
|                  |    |  | <i>For Galvanized Finish, Add</i>   | 100.42   |        |
|                  |    |  | <i>For &gt;10 To 20, Deduct</i>   | -114.03  |        |
|                  |    |  | <i>For &gt;20 To 40, Deduct</i>   | -228.06  |        |
|                  |    |  | <i>For &gt;40, Deduct</i>   | -372.44  |        |
| 26 56 13 00-0024 | EA |  | 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base..... | 4,634.23 | 627.88 |
|                  |    |  | <i>For Galvanized Finish, Add</i>   | 101.35   |        |
|                  |    |  | <i>For &gt;10 To 20, Deduct</i>   | -115.86  |        |
|                  |    |  | <i>For &gt;20 To 40, Deduct</i>   | -231.71  |        |
|                  |    |  | <i>For &gt;40, Deduct</i>   | -378.96  |        |
| 26 56 13 00-0025 | EA |  | 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base..... | 4,544.82 | 753.45 |
|                  |    |  | <i>For Galvanized Finish, Add</i>   | 91.14    |        |
|                  |    |  | <i>For &gt;10 To 20, Deduct</i>   | -113.62  |        |
|                  |    |  | <i>For &gt;20 To 40, Deduct</i>   | -227.24  |        |
|                  |    |  | <i>For &gt;40, Deduct</i>   | -378.53  |        |
| 26 56 13 00-0026 | EA |  | 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base..... | 4,603.09 | 774.38 |
|                  |    |  | <i>For Galvanized Finish, Add</i>   | 91.63    |        |
|                  |    |  | <i>For &gt;10 To 20, Deduct</i>   | -115.08  |        |
|                  |    |  | <i>For &gt;20 To 40, Deduct</i>   | -230.15  |        |
|                  |    |  | <i>For &gt;40, Deduct</i>   | -383.95  |        |
| 26 56 13 00-0027 | EA |  | 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base..... | 4,651.60 | 795.31 |
|                  |    |  | <i>For Galvanized Finish, Add</i>   | 91.83    |        |
|                  |    |  | <i>For &gt;10 To 20, Deduct</i>   | -116.29  |        |
|                  |    |  | <i>For &gt;20 To 40, Deduct</i>   | -232.58  |        |
|                  |    |  | <i>For &gt;40, Deduct</i>   | -388.64  |        |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 56 13 00-0028 | EA  | 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms,<br>Anchor Base | 4,914.90                  | 837.16                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 97.22                     |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -122.87                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -245.75                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -410.48                   |                         |
| 26 56 13 00-0029 | EA  | 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms,<br>Anchor Base | 4,966.75                  | 858.10                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 97.52                     |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -124.17                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -248.34                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -415.41                   |                         |
| 26 56 13 00-0030 | EA  | 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms,<br>Anchor Base | 5,014.92                  | 879.02                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 97.71                     |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -125.37                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -250.75                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -420.07                   |                         |
| 26 56 13 00-0031 | EA  | 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms,<br>Anchor Base | 5,210.92                  | 879.02                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 103.59                    |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -130.27                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -260.55                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -434.77                   |                         |
| 26 56 13 00-0032 | EA  | 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms,<br>Anchor Base | 5,295.68                  | 899.96                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 104.87                    |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -132.39                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -264.78                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -442.17                   |                         |
| 26 56 13 00-0033 | EA  | 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms,<br>Anchor Base | 5,378.23                  | 920.88                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 106.09                    |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -134.46                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -268.91                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -449.41                   |                         |
| 26 56 13 00-0034 | EA  | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms,<br>Anchor Base | 5,856.59                  | 920.88                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 120.44                    |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -146.41                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -292.83                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -485.29                   |                         |
| 26 56 13 00-0035 | EA  | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms,<br>Anchor Base | 5,904.88                  | 941.81                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 120.64                    |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -147.62                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -295.24                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -489.96                   |                         |
| 26 56 13 00-0036 | EA  | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms,<br>Anchor Base | 5,953.39                  | 962.75                  |
|                  |     | <i>For Galvanized Finish, Add</i>   | 120.84                    |                         |
|                  |     | <i>For &gt;10 To 20, Deduct</i>   | -148.83                   |                         |
|                  |     | <i>For &gt;20 To 40, Deduct</i>   | -297.67                   |                         |
|                  |     | <i>For &gt;40, Deduct</i>   | -494.64                   |                         |

**26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms**  
(26 56 13 00-0005)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 26 56 13 00-0038 | EA | 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms,<br>Anchor Base | 5,319.99 | 837.16 |
|                  |    | <i>For Galvanized Finish, Add</i>   | 109.37   |        |
|                  |    | <i>For &gt;10 To 20, Deduct</i>   | -133.00  |        |
|                  |    | <i>For &gt;20 To 40, Deduct</i>   | -266.00  |        |
|                  |    | <i>For &gt;40, Deduct</i>   | -440.86  |        |
| 26 56 13 00-0039 | EA | 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms,<br>Anchor Base | 5,410.25 | 879.02 |
|                  |    | <i>For Galvanized Finish, Add</i>   | 109.57   |        |
|                  |    | <i>For &gt;10 To 20, Deduct</i>   | -135.26  |        |
|                  |    | <i>For &gt;20 To 40, Deduct</i>   | -270.51  |        |
|                  |    | <i>For &gt;40, Deduct</i>   | -449.72  |        |
| 26 56 13 00-0040 | EA | 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms,<br>Anchor Base | 5,510.26 | 920.88 |
|                  |    | <i>For Galvanized Finish, Add</i>   | 110.05   |        |
|                  |    | <i>For &gt;10 To 20, Deduct</i>   | -137.76  |        |
|                  |    | <i>For &gt;20 To 40, Deduct</i>   | -275.51  |        |
|                  |    | <i>For &gt;40, Deduct</i>   | -459.31  |        |
| 26 56 13 00-0041 | EA | 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms,<br>Anchor Base | 5,650.84 | 920.88 |
|                  |    | <i>For Galvanized Finish, Add</i>   | 114.27   |        |
|                  |    | <i>For &gt;10 To 20, Deduct</i>   | -141.27  |        |
|                  |    | <i>For &gt;20 To 40, Deduct</i>   | -282.54  |        |
|                  |    | <i>For &gt;40, Deduct</i>   | -469.86  |        |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR   |     | TOTAL DIRECT  |           | DEMOLITION |
|---|-----|---|-----------|------------|
| CSI   | UOM | DESCRIPTION   | UNIT COST | UNIT COST  |
| 26 56 13 00-0042  | EA  | 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base..... | 5,744.19  | 962.75     |
|   |     | <i>For Galvanized Finish, Add</i>   | 114.56    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -143.60   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -287.21   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -478.95   |            |
| 26 56 13 00-0043  | EA  | 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base..... | 5,834.45  | 1,004.60   |
|   |     | <i>For Galvanized Finish, Add</i>   | 114.76    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -145.86   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -291.72   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -487.81   |            |
| 26 56 13 00-0044  | EA  | 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base..... | 6,002.16  | 962.75     |
|   |     | <i>For Galvanized Finish, Add</i>   | 122.30    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -150.05   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -300.11   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -498.30   |            |
| 26 56 13 00-0045  | EA  | 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base..... | 6,092.42  | 1,004.60   |
|   |     | <i>For Galvanized Finish, Add</i>   | 122.50    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -152.31   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -304.62   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -507.16   |            |
| 26 56 13 00-0046  | EA  | 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base..... | 6,182.69  | 1,046.46   |
|   |     | <i>For Galvanized Finish, Add</i>   | 122.69    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -154.57   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -309.13   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -516.02   |            |
| 26 56 13 00-0047  | EA  | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base..... | 6,445.52  | 1,004.60   |
|   |     | <i>For Galvanized Finish, Add</i>   | 133.09    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -161.14   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -322.28   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -533.64   |            |
| 26 56 13 00-0048  | EA  | 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base..... | 6,535.44  | 1,046.46   |
|   |     | <i>For Galvanized Finish, Add</i>   | 133.28    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -163.39   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -326.77   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -542.48   |            |
| 26 56 13 00-0049  | EA  | 40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base..... | 6,632.25  | 1,088.32   |
|   |     | <i>For Galvanized Finish, Add</i>   | 133.67    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -165.81   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -331.61   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -551.83   |            |
| <b>26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms</b> |     |   |           |            |
| <small>(26 56 13 00-0005)</small>   |     |   |           |            |
| 26 56 13 00-0051  | EA  | 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....  | 5,912.14  | 920.88     |
|   |     | <i>For Galvanized Finish, Add</i>   | 122.11    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -147.80   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -295.61   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -489.45   |            |
| 26 56 13 00-0052  | EA  | 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....  | 6,047.46  | 983.67     |
|   |     | <i>For Galvanized Finish, Add</i>   | 122.40    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -151.19   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -302.37   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -502.74   |            |
| 26 56 13 00-0053  | EA  | 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....  | 6,179.47  | 1,046.46   |
|   |     | <i>For Galvanized Finish, Add</i>   | 122.60    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -154.49   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -308.97   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -515.78   |            |
| 26 56 13 00-0054  | EA  | 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....  | 6,282.99  | 1,004.60   |
|   |     | <i>For Galvanized Finish, Add</i>   | 128.21    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -157.07   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -314.15   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -521.45   |            |
| 26 56 13 00-0055  | EA  | 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....  | 6,415.45  | 1,067.38   |
|   |     | <i>For Galvanized Finish, Add</i>   | 128.42    |            |
|   |     | <i>For &gt;10 To 20, Deduct</i>   | -160.39   |            |
|   |     | <i>For &gt;20 To 40, Deduct</i>   | -320.77   |            |
|   |     | <i>For &gt;40, Deduct</i>   | -534.53   |            |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            |     |  |       | TOTAL DIRECT | DEMOLITION |
|------------------|-----|--|-------|--------------|------------|
| CSI              | UOM | DESCRIPTION  |       | UNIT COST    | UNIT COST  |
| 26 56 13 00-0056 | EA  | 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base  | ..... | 6,510.20     | 1,130.18   |
|                  |     | For Galvanized Finish, Add   |       | 127.50       |            |
|                  |     | For >10 To 20, Deduct  |       | -162.76      |            |
|                  |     | For >20 To 40, Deduct  |       | -325.51      |            |
|                  |     | For >40, Deduct  |       | -544.77      |            |
| 26 56 13 00-0057 | EA  | 35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base  | ..... | 6,737.99     | 1,046.46   |
|                  |     | For Galvanized Finish, Add   |       | 139.35       |            |
|                  |     | For >10 To 20, Deduct  |       | -168.45      |            |
|                  |     | For >20 To 40, Deduct  |       | -336.90      |            |
|                  |     | For >40, Deduct  |       | -557.67      |            |
| 26 56 13 00-0058 | EA  | 35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base  | ..... | 6,914.55     | 1,109.24   |
|                  |     | For Galvanized Finish, Add   |       | 140.88       |            |
|                  |     | For >10 To 20, Deduct  |       | -172.86      |            |
|                  |     | For >20 To 40, Deduct  |       | -345.73      |            |
|                  |     | For >40, Deduct  |       | -574.05      |            |
| 26 56 13 00-0059 | EA  | 35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base  | ..... | 7,005.66     | 1,172.03   |
|                  |     | For Galvanized Finish, Add   |       | 139.85       |            |
|                  |     | For >10 To 20, Deduct  |       | -175.14      |            |
|                  |     | For >20 To 40, Deduct  |       | -350.28      |            |
|                  |     | For >40, Deduct  |       | -584.03      |            |
| 26 56 13 00-0060 | EA  | 40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base | ..... | 7,034.12     | 1,088.32   |
|                  |     | For Galvanized Finish, Add   |       | 145.72       |            |
|                  |     | For >10 To 20, Deduct  |       | -175.85      |            |
|                  |     | For >20 To 40, Deduct  |       | -351.71      |            |
|                  |     | For >40, Deduct  |       | -581.98      |            |
| 26 56 13 00-0061 | EA  | 40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base | ..... | 7,166.12     | 1,151.11   |
|                  |     | For Galvanized Finish, Add   |       | 145.92       |            |
|                  |     | For >10 To 20, Deduct  |       | -179.15      |            |
|                  |     | For >20 To 40, Deduct  |       | -358.31      |            |
|                  |     | For >40, Deduct  |       | -595.01      |            |
| 26 56 13 00-0062 | EA  | 40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base | ..... | 7,301.44     | 1,213.89   |
|                  |     | For Galvanized Finish, Add   |       | 146.21       |            |
|                  |     | For >10 To 20, Deduct  |       | -182.54      |            |
|                  |     | For >20 To 40, Deduct  |       | -365.07      |            |
|                  |     | For >40, Deduct  |       | -608.30      |            |
| 26 56 13 00-0063 |     | Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>                        |       |              |            |
| 26 56 13 00-0064 |     | Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>                 |       |              |            |
| 26 56 13 00-0065 | EA  | 25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base | ..... | 4,227.17     | 669.74     |
|                  |     | For Galvanized Finish, Add   |       | 86.63        |            |
|                  |     | For >10 To 20, Deduct  |       | -105.68      |            |
|                  |     | For >20 To 40, Deduct  |       | -211.36      |            |
|                  |     | For >40, Deduct  |       | -350.52      |            |
| 26 56 13 00-0066 | EA  | 30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base | ..... | 4,781.62     | 753.45     |
|                  |     | For Galvanized Finish, Add   |       | 98.24        |            |
|                  |     | For >10 To 20, Deduct  |       | -119.54      |            |
|                  |     | For >20 To 40, Deduct  |       | -239.08      |            |
|                  |     | For >40, Deduct  |       | -396.29      |            |
| 26 56 13 00-0067 | EA  | 35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base | ..... | 4,919.22     | 795.31     |
|                  |     | For Galvanized Finish, Add   |       | 99.86        |            |
|                  |     | For >10 To 20, Deduct  |       | -122.98      |            |
|                  |     | For >20 To 40, Deduct  |       | -245.96      |            |
|                  |     | For >40, Deduct  |       | -408.71      |            |
| 26 56 13 00-0068 | EA  | 40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base | ..... | 5,829.50     | 837.16     |
|                  |     | For Galvanized Finish, Add   |       | 124.66       |            |
|                  |     | For >10 To 20, Deduct  |       | -145.74      |            |
|                  |     | For >20 To 40, Deduct  |       | -291.48      |            |
|                  |     | For >40, Deduct  |       | -479.07      |            |
| 26 56 13 00-0069 |     | Round Tapered, Steel Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0004)</small>                       |       |              |            |
| 26 56 13 00-0070 |     | Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0069)</small>                 |       |              |            |
| 26 56 13 00-0071 | EA  | 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base  | ..... | 5,383.12     | 669.74     |
|                  |     | For Galvanized Finish, Add   |       | 121.31       |            |
|                  |     | For >10 To 20, Deduct  |       | -134.58      |            |
|                  |     | For >20 To 40, Deduct  |       | -269.16      |            |
|                  |     | For >40, Deduct  |       | -437.22      |            |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0072 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm,<br>Anchor Base..... | 5,432.67                  | 669.74                  |
| For Galvanized Finish, Add  | 122.80                    |                         |
| For >10 To 20, Deduct   | -135.82                   |                         |
| For >20 To 40, Deduct   | -271.63                   |                         |
| For >40, Deduct   | -440.94                   |                         |
| 26 56 13 00-0073 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm,<br>Anchor Base..... | 5,455.29                  | 669.74                  |
| For Galvanized Finish, Add  | 123.47                    |                         |
| For >10 To 20, Deduct   | -136.38                   |                         |
| For >20 To 40, Deduct   | -272.76                   |                         |
| For >40, Deduct   | -442.63                   |                         |
| 26 56 13 00-0074 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm,<br>Anchor Base..... | 5,600.10                  | 753.45                  |
| For Galvanized Finish, Add  | 122.80                    |                         |
| For >10 To 20, Deduct   | -140.00                   |                         |
| For >20 To 40, Deduct   | -280.01                   |                         |
| For >40, Deduct   | -457.68                   |                         |
| 26 56 13 00-0075 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm,<br>Anchor Base..... | 5,608.75                  | 753.45                  |
| For Galvanized Finish, Add  | 123.06                    |                         |
| For >10 To 20, Deduct   | -140.22                   |                         |
| For >20 To 40, Deduct   | -280.44                   |                         |
| For >40, Deduct   | -458.33                   |                         |
| 26 56 13 00-0076 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm,<br>Anchor Base..... | 5,698.10                  | 753.45                  |
| For Galvanized Finish, Add  | 125.74                    |                         |
| For >10 To 20, Deduct   | -142.45                   |                         |
| For >20 To 40, Deduct   | -284.91                   |                         |
| For >40, Deduct   | -465.03                   |                         |
| 26 56 13 00-0077 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm,<br>Anchor Base..... | 5,713.20                  | 795.31                  |
| For Galvanized Finish, Add  | 123.68                    |                         |
| For >10 To 20, Deduct   | -142.83                   |                         |
| For >20 To 40, Deduct   | -285.66                   |                         |
| For >40, Deduct   | -468.26                   |                         |
| 26 56 13 00-0078 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm,<br>Anchor Base..... | 5,765.53                  | 795.31                  |
| For Galvanized Finish, Add  | 125.25                    |                         |
| For >10 To 20, Deduct   | -144.14                   |                         |
| For >20 To 40, Deduct   | -288.28                   |                         |
| For >40, Deduct   | -472.18                   |                         |
| 26 56 13 00-0079 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm,<br>Anchor Base..... | 6,039.91                  | 795.31                  |
| For Galvanized Finish, Add  | 133.48                    |                         |
| For >10 To 20, Deduct   | -151.00                   |                         |
| For >20 To 40, Deduct   | -302.00                   |                         |
| For >40, Deduct   | -492.76                   |                         |
| <b>26 56 13 00-0080 Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms</b> <small>(26 56<br/>13 00-0069)</small>                  |                           |                         |
| 26 56 13 00-0081 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms,<br>Anchor Base.....   | 7,036.33                  | 837.16                  |
| For Galvanized Finish, Add  | 160.86                    |                         |
| For >10 To 20, Deduct   | -175.91                   |                         |
| For >20 To 40, Deduct   | -351.82                   |                         |
| For >40, Deduct   | -569.58                   |                         |
| 26 56 13 00-0082 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms,<br>Anchor Base.....   | 7,167.50                  | 879.02                  |
| For Galvanized Finish, Add  | 162.28                    |                         |
| For >10 To 20, Deduct   | -179.19                   |                         |
| For >20 To 40, Deduct   | -358.38                   |                         |
| For >40, Deduct   | -581.51                   |                         |
| 26 56 13 00-0083 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms,<br>Anchor Base.....   | 7,437.47                  | 920.88                  |
| For Galvanized Finish, Add  | 167.87                    |                         |
| For >10 To 20, Deduct   | -185.94                   |                         |
| For >20 To 40, Deduct   | -371.87                   |                         |
| For >40, Deduct   | -603.85                   |                         |
| 26 56 13 00-0084 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms,<br>Anchor Base.....   | 7,176.28                  | 920.88                  |
| For Galvanized Finish, Add  | 160.04                    |                         |
| For >10 To 20, Deduct   | -179.41                   |                         |
| For >20 To 40, Deduct   | -358.81                   |                         |
| For >40, Deduct   | -584.27                   |                         |
| 26 56 13 00-0085 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms,<br>Anchor Base.....   | 7,505.10                  | 962.75                  |
| For Galvanized Finish, Add  | 167.39                    |                         |
| For >10 To 20, Deduct   | -187.63                   |                         |
| For >20 To 40, Deduct   | -375.26                   |                         |
| For >40, Deduct   | -611.02                   |                         |





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 13 00-0086 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms,<br>Anchor Base .....                   | 7,709.44                  | 1,004.60                |
| For Galvanized Finish, Add .....   | 171.01                    |                         |
| For >10 To 20, Deduct .....  | -192.74                   |                         |
| For >20 To 40, Deduct .....  | -385.47                   |                         |
| For >40, Deduct .....  | -628.44                   |                         |
| 26 56 13 00-0087 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms,<br>Anchor Base .....                   | 7,396.90                  | 962.75                  |
| For Galvanized Finish, Add .....   | 164.14                    |                         |
| For >10 To 20, Deduct .....  | -184.92                   |                         |
| For >20 To 40, Deduct .....  | -369.85                   |                         |
| For >40, Deduct .....  | -602.90                   |                         |
| 26 56 13 00-0088 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms,<br>Anchor Base .....                   | 7,830.28                  | 1,004.60                |
| For Galvanized Finish, Add .....   | 174.63                    |                         |
| For >10 To 20, Deduct .....  | -195.76                   |                         |
| For >20 To 40, Deduct .....  | -391.51                   |                         |
| For >40, Deduct .....  | -637.50                   |                         |
| 26 56 13 00-0089 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms,<br>Anchor Base .....                   | 8,093.59                  | 1,046.46                |
| For Galvanized Finish, Add .....   | 180.02                    |                         |
| For >10 To 20, Deduct .....  | -202.34                   |                         |
| For >20 To 40, Deduct .....  | -404.68                   |                         |
| For >40, Deduct .....  | -659.34                   |                         |
| <b>26 56 13 00-0090 Aluminum Roadway Light Poles</b> <small>(26 56 13 00-0002)</small>   |                           |                         |
| Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and<br>grounding provisions, and fixture arm(s).     |                           |                         |
| <b>26 56 13 00-0091 Round Tapered, Aluminum Roadway Light Poles</b> <small>(26 56 13 00-0090)</small>  |                           |                         |
| <b>26 56 13 00-0092 Round Tapered, Aluminum Roadway Light Poles With Upsweep Style<br/>Arms</b> <small>(26 56 13 00-0091)</small>                                  |                           |                         |
| <b>26 56 13 00-0093 Round Tapered, Aluminum Roadway Light Poles With Single Upsweep<br/>Style Arm</b> <small>(26 56 13 00-0092)</small>                            |                           |                         |
| 26 56 13 00-0094 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Upsweep Style Arm, Anchor Base ..... | 3,015.23                  | 502.30                  |
| For >10 To 20, Deduct .....  | -75.38                    |                         |
| For >20 To 40, Deduct .....  | -150.76                   |                         |
| For >40, Deduct .....  | -251.26                   |                         |
| 26 56 13 00-0095 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Upsweep Style Arm, Anchor Base ..... | 3,039.57                  | 502.30                  |
| For >10 To 20, Deduct .....  | -75.99                    |                         |
| For >20 To 40, Deduct .....  | -151.98                   |                         |
| For >40, Deduct .....  | -253.08                   |                         |
| 26 56 13 00-0096 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Upsweep Style Arm, Anchor Base ..... | 3,717.50                  | 669.74                  |
| For >10 To 20, Deduct .....  | -92.94                    |                         |
| For >20 To 40, Deduct .....  | -185.88                   |                         |
| For >40, Deduct .....  | -312.30                   |                         |
| 26 56 13 00-0097 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Upsweep Style Arm, Anchor Base ..... | 3,763.48                  | 669.74                  |
| For >10 To 20, Deduct .....  | -94.09                    |                         |
| For >20 To 40, Deduct .....  | -188.17                   |                         |
| For >40, Deduct .....  | -315.75                   |                         |
| 26 56 13 00-0098 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'<br>Upsweep Style Arm, Anchor Base ..... | 3,805.78                  | 669.74                  |
| For >10 To 20, Deduct .....  | -95.14                    |                         |
| For >20 To 40, Deduct .....  | -190.29                   |                         |
| For >40, Deduct .....  | -318.92                   |                         |
| 26 56 13 00-0099 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Upsweep Style Arm, Anchor Base ..... | 4,261.20                  | 753.45                  |
| For >10 To 20, Deduct .....  | -106.53                   |                         |
| For >20 To 40, Deduct .....  | -213.06                   |                         |
| For >40, Deduct .....  | -357.26                   |                         |
| 26 56 13 00-0100 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Upsweep Style Arm, Anchor Base ..... | 4,300.00                  | 753.45                  |
| For >10 To 20, Deduct .....  | -107.50                   |                         |
| For >20 To 40, Deduct .....  | -215.00                   |                         |
| For >40, Deduct .....  | -360.17                   |                         |
| 26 56 13 00-0101 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'<br>Upsweep Style Arm, Anchor Base ..... | 4,343.39                  | 753.45                  |
| For >10 To 20, Deduct .....  | -108.58                   |                         |
| For >20 To 40, Deduct .....  | -217.17                   |                         |
| For >40, Deduct .....  | -363.43                   |                         |
| 26 56 13 00-0102 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Upsweep Style Arm, Anchor Base ..... | 4,958.80                  | 795.31                  |
| For >10 To 20, Deduct .....  | -123.97                   |                         |
| For >20 To 40, Deduct .....  | -247.94                   |                         |
| For >40, Deduct .....  | -411.68                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0103 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Upsweep Style Arm, Anchor Base..... | 4,997.50                  | 795.31                  |
| For >10 To 20, Deduct   | -124.94                   |                         |
| For >20 To 40, Deduct   | -249.88                   |                         |
| For >40, Deduct   | -414.58                   |                         |
| 26 56 13 00-0104 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'<br>Upsweep Style Arm, Anchor Base..... | 5,029.92                  | 795.31                  |
| For >10 To 20, Deduct   | -125.75                   |                         |
| For >20 To 40, Deduct   | -251.50                   |                         |
| For >40, Deduct   | -417.01                   |                         |
| <b>26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms</b><br><small>(26 56 13 00-0092)</small>                              |                           |                         |
| 26 56 13 00-0106 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'<br>Upsweep Style Arms, Anchor Base.....   | 3,458.98                  | 586.02                  |
| For >10 To 20, Deduct   | -86.47                    |                         |
| For >20 To 40, Deduct   | -172.95                   |                         |
| For >40, Deduct   | -288.72                   |                         |
| 26 56 13 00-0107 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'<br>Upsweep Style Arms, Anchor Base.....   | 3,697.49                  | 586.02                  |
| For >10 To 20, Deduct   | -92.44                    |                         |
| For >20 To 40, Deduct   | -184.87                   |                         |
| For >40, Deduct   | -306.61                   |                         |
| 26 56 13 00-0108 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'<br>Upsweep Style Arms, Anchor Base.....   | 3,827.70                  | 627.88                  |
| For >10 To 20, Deduct   | -95.69                    |                         |
| For >20 To 40, Deduct   | -191.39                   |                         |
| For >40, Deduct   | -318.47                   |                         |
| 26 56 13 00-0109 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'<br>Upsweep Style Arms, Anchor Base.....   | 4,148.18                  | 753.45                  |
| For >10 To 20, Deduct   | -103.70                   |                         |
| For >20 To 40, Deduct   | -207.41                   |                         |
| For >40, Deduct   | -348.79                   |                         |
| 26 56 13 00-0110 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'<br>Upsweep Style Arms, Anchor Base.....   | 4,341.86                  | 774.38                  |
| For >10 To 20, Deduct   | -108.55                   |                         |
| For >20 To 40, Deduct   | -217.09                   |                         |
| For >40, Deduct   | -364.36                   |                         |
| 26 56 13 00-0111 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'<br>Upsweep Style Arms, Anchor Base.....   | 4,617.64                  | 795.31                  |
| For >10 To 20, Deduct   | -115.44                   |                         |
| For >20 To 40, Deduct   | -230.88                   |                         |
| For >40, Deduct   | -386.09                   |                         |
| 26 56 13 00-0112 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'<br>Upsweep Style Arms, Anchor Base.....   | 4,775.47                  | 837.16                  |
| For >10 To 20, Deduct   | -119.39                   |                         |
| For >20 To 40, Deduct   | -238.77                   |                         |
| For >40, Deduct   | -400.02                   |                         |
| 26 56 13 00-0113 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'<br>Upsweep Style Arms, Anchor Base.....   | 4,958.19                  | 858.10                  |
| For >10 To 20, Deduct   | -123.95                   |                         |
| For >20 To 40, Deduct   | -247.91                   |                         |
| For >40, Deduct   | -414.77                   |                         |
| 26 56 13 00-0114 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'<br>Upsweep Style Arms, Anchor Base.....   | 5,179.40                  | 879.02                  |
| For >10 To 20, Deduct   | -129.49                   |                         |
| For >20 To 40, Deduct   | -258.97                   |                         |
| For >40, Deduct   | -432.41                   |                         |
| 26 56 13 00-0115 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'<br>Upsweep Style Arms, Anchor Base.....   | 5,390.38                  | 879.02                  |
| For >10 To 20, Deduct   | -134.76                   |                         |
| For >20 To 40, Deduct   | -269.52                   |                         |
| For >40, Deduct   | -448.23                   |                         |
| 26 56 13 00-0116 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'<br>Upsweep Style Arms, Anchor Base.....   | 5,871.35                  | 899.96                  |
| For >10 To 20, Deduct   | -146.78                   |                         |
| For >20 To 40, Deduct   | -293.57                   |                         |
| For >40, Deduct   | -485.35                   |                         |
| 26 56 13 00-0117 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'<br>Upsweep Style Arms, Anchor Base.....   | 6,429.44                  | 920.88                  |
| For >10 To 20, Deduct   | -160.74                   |                         |
| For >20 To 40, Deduct   | -321.47                   |                         |
| For >40, Deduct   | -528.25                   |                         |
| <b>26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms</b><br><small>(26 56 13 00-0092)</small>                            |                           |                         |
| 26 56 13 00-0119 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4'<br>Upsweep Style Arms, Anchor Base..... | 4,010.37                  | 669.74                  |
| For >10 To 20, Deduct   | -100.26                   |                         |
| For >20 To 40, Deduct   | -200.52                   |                         |
| For >40, Deduct   | -334.26                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0120 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6'<br>Upsweep Style Arms, Anchor Base..... | 4,287.02                  | 711.59                  |
| For >10 To 20, Deduct   | -107.18                   |                         |
| For >20 To 40, Deduct   | -214.35                   |                         |
| For >40, Deduct   | -357.11                   |                         |
| 26 56 13 00-0121 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4'<br>Upsweep Style Arms, Anchor Base..... | 4,885.30                  | 837.16                  |
| For >10 To 20, Deduct   | -122.13                   |                         |
| For >20 To 40, Deduct   | -244.27                   |                         |
| For >40, Deduct   | -408.26                   |                         |
| 26 56 13 00-0122 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6'<br>Upsweep Style Arms, Anchor Base..... | 5,096.60                  | 879.02                  |
| For >10 To 20, Deduct   | -127.42                   |                         |
| For >20 To 40, Deduct   | -254.83                   |                         |
| For >40, Deduct   | -426.20                   |                         |
| 26 56 13 00-0123 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4'<br>Upsweep Style Arms, Anchor Base..... | 5,337.63                  | 920.88                  |
| For >10 To 20, Deduct   | -133.44                   |                         |
| For >20 To 40, Deduct   | -266.88                   |                         |
| For >40, Deduct   | -446.37                   |                         |
| 26 56 13 00-0124 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6'<br>Upsweep Style Arms, Anchor Base..... | 5,531.17                  | 962.75                  |
| For >10 To 20, Deduct   | -138.28                   |                         |
| For >20 To 40, Deduct   | -276.56                   |                         |
| For >40, Deduct   | -462.97                   |                         |
| 26 56 13 00-0125 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4'<br>Upsweep Style Arms, Anchor Base..... | 5,759.61                  | 962.75                  |
| For >10 To 20, Deduct   | -143.99                   |                         |
| For >20 To 40, Deduct   | -287.98                   |                         |
| For >40, Deduct   | -480.11                   |                         |
| 26 56 13 00-0126 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6'<br>Upsweep Style Arms, Anchor Base..... | 6,248.73                  | 1,004.60                |
| For >10 To 20, Deduct   | -156.22                   |                         |
| For >20 To 40, Deduct   | -312.44                   |                         |
| For >40, Deduct   | -518.88                   |                         |
| 26 56 13 00-0127 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8'<br>Upsweep Style Arms, Anchor Base..... | 11,728.59                 | 1,046.46                |
| For >10 To 20, Deduct   | -293.21                   |                         |
| For >20 To 40, Deduct   | -586.43                   |                         |
| For >40, Deduct   | -931.97                   |                         |
| <b>26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style<br/>Arms (26 56 13 00-0092)</b>   |                           |                         |
| 26 56 13 00-0129 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4'<br>Upsweep Style Arms, Anchor Base.....  | 4,177.20                  | 753.45                  |
| For >10 To 20, Deduct   | -104.43                   |                         |
| For >20 To 40, Deduct   | -208.86                   |                         |
| For >40, Deduct   | -350.96                   |                         |
| 26 56 13 00-0130 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6'<br>Upsweep Style Arms, Anchor Base.....  | 4,323.24                  | 753.45                  |
| For >10 To 20, Deduct   | -108.08                   |                         |
| For >20 To 40, Deduct   | -216.16                   |                         |
| For >40, Deduct   | -361.92                   |                         |
| 26 56 13 00-0131 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4'<br>Upsweep Style Arms, Anchor Base.....  | 5,346.71                  | 920.88                  |
| For >10 To 20, Deduct   | -133.67                   |                         |
| For >20 To 40, Deduct   | -267.34                   |                         |
| For >40, Deduct   | -447.05                   |                         |
| 26 56 13 00-0132 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6'<br>Upsweep Style Arms, Anchor Base.....  | 5,783.61                  | 983.67                  |
| For >10 To 20, Deduct   | -144.59                   |                         |
| For >20 To 40, Deduct   | -289.18                   |                         |
| For >40, Deduct   | -482.95                   |                         |
| 26 56 13 00-0133 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4'<br>Upsweep Style Arms, Anchor Base.....  | 6,024.38                  | 1,004.60                |
| For >10 To 20, Deduct   | -150.61                   |                         |
| For >20 To 40, Deduct   | -301.22                   |                         |
| For >40, Deduct   | -502.06                   |                         |
| 26 56 13 00-0134 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6'<br>Upsweep Style Arms, Anchor Base.....  | 6,428.97                  | 1,067.38                |
| For >10 To 20, Deduct   | -160.72                   |                         |
| For >20 To 40, Deduct   | -321.45                   |                         |
| For >40, Deduct   | -535.54                   |                         |
| 26 56 13 00-0135 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4'<br>Upsweep Style Arms, Anchor Base.....  | 6,339.63                  | 1,046.46                |
| For >10 To 20, Deduct   | -158.49                   |                         |
| For >20 To 40, Deduct   | -316.98                   |                         |
| For >40, Deduct   | -527.80                   |                         |
| 26 56 13 00-0136 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6'<br>Upsweep Style Arms, Anchor Base.....  | 7,180.13                  | 1,109.24                |
| For >10 To 20, Deduct   | -179.50                   |                         |
| For >20 To 40, Deduct   | -359.01                   |                         |
| For >40, Deduct   | -593.97                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0137 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base..... | 7,925.98                  | 1,172.03                |
| <i>For &gt;10 To 20, Deduct</i>   | -198.15                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -396.30                   |                         |
| <i>For &gt;40, Deduct</i>   | -653.05                   |                         |
| <b>26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms</b> <small>(26 56 13 00-0091)</small>                                   |                           |                         |
| <b>26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm</b> <small>(26 56 13 00-0138)</small>                             |                           |                         |
| 26 56 13 00-0140 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....  | 4,393.23                  | 669.74                  |
| <i>For &gt;10 To 20, Deduct</i>   | -109.83                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -219.66                   |                         |
| <i>For &gt;40, Deduct</i>   | -362.98                   |                         |
| 26 56 13 00-0141 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... | 4,425.75                  | 669.74                  |
| <i>For &gt;10 To 20, Deduct</i>   | -110.64                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -221.29                   |                         |
| <i>For &gt;40, Deduct</i>   | -365.42                   |                         |
| 26 56 13 00-0142 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... | 4,508.84                  | 669.74                  |
| <i>For &gt;10 To 20, Deduct</i>   | -112.72                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -225.44                   |                         |
| <i>For &gt;40, Deduct</i>   | -371.65                   |                         |
| 26 56 13 00-0143 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... | 4,633.53                  | 669.74                  |
| <i>For &gt;10 To 20, Deduct</i>   | -115.84                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -231.68                   |                         |
| <i>For &gt;40, Deduct</i>   | -381.00                   |                         |
| 26 56 13 00-0144 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....  | 4,946.20                  | 753.45                  |
| <i>For &gt;10 To 20, Deduct</i>   | -123.66                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -247.31                   |                         |
| <i>For &gt;40, Deduct</i>   | -408.64                   |                         |
| 26 56 13 00-0145 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... | 5,019.52                  | 753.45                  |
| <i>For &gt;10 To 20, Deduct</i>   | -125.49                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -250.98                   |                         |
| <i>For &gt;40, Deduct</i>   | -414.14                   |                         |
| 26 56 13 00-0146 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... | 5,097.73                  | 753.45                  |
| <i>For &gt;10 To 20, Deduct</i>   | -127.44                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -254.89                   |                         |
| <i>For &gt;40, Deduct</i>   | -420.00                   |                         |
| 26 56 13 00-0147 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... | 5,569.47                  | 753.45                  |
| <i>For &gt;10 To 20, Deduct</i>   | -139.24                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -278.47                   |                         |
| <i>For &gt;40, Deduct</i>   | -455.38                   |                         |
| 26 56 13 00-0148 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....  | 5,365.40                  | 795.31                  |
| <i>For &gt;10 To 20, Deduct</i>   | -134.14                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -268.27                   |                         |
| <i>For &gt;40, Deduct</i>   | -442.17                   |                         |
| 26 56 13 00-0149 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... | 5,970.70                  | 795.31                  |
| <i>For &gt;10 To 20, Deduct</i>   | -149.27                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -298.54                   |                         |
| <i>For &gt;40, Deduct</i>   | -487.57                   |                         |
| 26 56 13 00-0150 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... | 6,029.66                  | 795.31                  |
| <i>For &gt;10 To 20, Deduct</i>   | -150.74                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -301.48                   |                         |
| <i>For &gt;40, Deduct</i>   | -491.99                   |                         |
| 26 56 13 00-0151 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... | 6,403.93                  | 795.31                  |
| <i>For &gt;10 To 20, Deduct</i>   | -160.10                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -320.20                   |                         |
| <i>For &gt;40, Deduct</i>   | -520.06                   |                         |
| 26 56 13 00-0152 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... | 6,745.29                  | 795.31                  |
| <i>For &gt;10 To 20, Deduct</i>   | -168.63                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -337.26                   |                         |
| <i>For &gt;40, Deduct</i>   | -545.66                   |                         |
| <b>26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms</b> <small>(26 56 13 00-0138)</small>                               |                           |                         |
| 26 56 13 00-0154 EA 25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....   | 5,689.51                  | 837.16                  |
| <i>For &gt;10 To 20, Deduct</i>   | -142.24                   |                         |
| <i>For &gt;20 To 40, Deduct</i>   | -284.48                   |                         |
| <i>For &gt;40, Deduct</i>   | -468.57                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0155 EA 25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss<br>Style Arms, Anchor Base.....  | 5,856.33                  | 879.02                  |
| For>10 To 20, Deduct  | -146.41                   |                         |
| For>20 To 40, Deduct  | -292.82                   |                         |
| For>40, Deduct  | -483.18                   |                         |
| 26 56 13 00-0156 EA 25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss<br>Style Arms, Anchor Base.....  | 5,993.51                  | 920.88                  |
| For>10 To 20, Deduct  | -149.84                   |                         |
| For>20 To 40, Deduct  | -299.68                   |                         |
| For>40, Deduct  | -495.56                   |                         |
| 26 56 13 00-0157 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss<br>Style Arms, Anchor Base.....  | 6,135.96                  | 920.88                  |
| For>10 To 20, Deduct  | -153.40                   |                         |
| For>20 To 40, Deduct  | -306.80                   |                         |
| For>40, Deduct  | -506.24                   |                         |
| 26 56 13 00-0158 EA 30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss<br>Style Arms, Anchor Base.....  | 6,652.80                  | 962.75                  |
| For>10 To 20, Deduct  | -166.32                   |                         |
| For>20 To 40, Deduct  | -332.64                   |                         |
| For>40, Deduct  | -547.10                   |                         |
| 26 56 13 00-0159 EA 30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss<br>Style Arms, Anchor Base.....  | 7,591.11                  | 1,004.60                |
| For>10 To 20, Deduct  | -189.78                   |                         |
| For>20 To 40, Deduct  | -379.56                   |                         |
| For>40, Deduct  | -619.56                   |                         |
| 26 56 13 00-0160 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss<br>Style Arms, Anchor Base.....  | 7,338.21                  | 962.75                  |
| For>10 To 20, Deduct  | -183.46                   |                         |
| For>20 To 40, Deduct  | -366.91                   |                         |
| For>40, Deduct  | -598.50                   |                         |
| 26 56 13 00-0161 EA 35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12'<br>Truss Style Arms, Anchor Base..... | 7,491.56                  | 1,004.60                |
| For>10 To 20, Deduct  | -187.29                   |                         |
| For>20 To 40, Deduct  | -374.58                   |                         |
| For>40, Deduct  | -612.10                   |                         |
| 26 56 13 00-0162 EA 35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15'<br>Truss Style Arms, Anchor Base..... | 9,036.67                  | 1,046.46                |
| For>10 To 20, Deduct  | -225.92                   |                         |
| For>20 To 40, Deduct  | -451.83                   |                         |
| For>40, Deduct  | -730.07                   |                         |
| <b>26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm</b> <small>(26 56 13 00-0091)</small>                                      |                           |                         |
| <b>26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm</b> <small>(26 56 13 00-0163)</small>                               |                           |                         |
| 26 56 13 00-0165 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Davit Style Arm, Anchor Base..... | 3,583.63                  | 502.30                  |
| For>10 To 20, Deduct  | -89.59                    |                         |
| For>20 To 40, Deduct  | -179.18                   |                         |
| For>40, Deduct  | -293.89                   |                         |
| 26 56 13 00-0166 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Davit Style Arm, Anchor Base..... | 3,675.50                  | 502.30                  |
| For>10 To 20, Deduct  | -91.89                    |                         |
| For>20 To 40, Deduct  | -183.78                   |                         |
| For>40, Deduct  | -300.78                   |                         |
| 26 56 13 00-0167 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'<br>Davit Style Arm, Anchor Base..... | 3,767.58                  | 502.30                  |
| For>10 To 20, Deduct  | -94.19                    |                         |
| For>20 To 40, Deduct  | -188.38                   |                         |
| For>40, Deduct  | -307.68                   |                         |
| 26 56 13 00-0168 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Davit Style Arm, Anchor Base..... | 4,294.17                  | 669.74                  |
| For>10 To 20, Deduct  | -107.35                   |                         |
| For>20 To 40, Deduct  | -214.71                   |                         |
| For>40, Deduct  | -355.55                   |                         |
| 26 56 13 00-0169 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Davit Style Arm, Anchor Base..... | 4,364.20                  | 669.74                  |
| For>10 To 20, Deduct  | -109.11                   |                         |
| For>20 To 40, Deduct  | -218.21                   |                         |
| For>40, Deduct  | -360.80                   |                         |
| 26 56 13 00-0170 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'<br>Davit Style Arm, Anchor Base..... | 4,440.71                  | 669.74                  |
| For>10 To 20, Deduct  | -111.02                   |                         |
| For>20 To 40, Deduct  | -222.04                   |                         |
| For>40, Deduct  | -366.54                   |                         |
| 26 56 13 00-0171 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'<br>Davit Style Arm, Anchor Base..... | 4,845.45                  | 753.45                  |
| For>10 To 20, Deduct  | -121.14                   |                         |
| For>20 To 40, Deduct  | -242.27                   |                         |
| For>40, Deduct  | -401.08                   |                         |
| 26 56 13 00-0172 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'<br>Davit Style Arm, Anchor Base..... | 4,940.52                  | 753.45                  |
| For>10 To 20, Deduct  | -123.51                   |                         |
| For>20 To 40, Deduct  | -247.03                   |                         |
| For>40, Deduct  | -408.21                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 56 13 00-0173 | EA  |     | 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base .....  | 4,954.78               | 753.45               |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -123.87                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -247.74                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -409.28                |                      |
| 26 56 13 00-0174 | EA  |     | 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base .....  | 5,267.44               | 795.31               |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -131.69                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -263.37                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -434.82                |                      |
| 26 56 13 00-0175 | EA  |     | 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base .....  | 5,309.13               | 795.31               |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -132.73                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -265.46                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -437.95                |                      |
| 26 56 13 00-0176 | EA  |     | 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base .....  | 5,406.89               | 795.31               |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -135.17                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -270.34                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -445.28                |                      |
| 26 56 13 00-0177 |     |     | <b>Area Light Poles</b> <small>(26 56 13 00-0001)</small>  |                        |                      |
|                  |     |     | Note: Excludes lighting fixtures.  |                        |                      |
| 26 56 13 00-0178 |     |     | <b>Steel Area Light Poles</b> <small>(26 56 13 00-0177)</small>  |                        |                      |
|                  |     |     | Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top. |                        |                      |
| 26 56 13 00-0179 |     |     | <b>Round Straight, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>  |                        |                      |
| 26 56 13 00-0180 |     |     | <b>Round Straight, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0179)</small>   |                        |                      |
| 26 56 13 00-0181 | EA  |     | 10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 1,515.11               | 293.01               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 27.87                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -51.81                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -94.34                 |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -197.97                |                      |
| 26 56 13 00-0182 | EA  |     | 12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 1,650.31               | 334.87               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 29.42                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -55.97                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -102.13                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -214.06                |                      |
| 26 56 13 00-0183 | EA  |     | 14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 1,844.69               | 376.73               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 32.74                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -62.49                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -114.06                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -239.03                |                      |
| 26 56 13 00-0184 | EA  |     | 16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 2,044.21               | 418.58               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 36.21                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -69.21                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -126.35                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -264.77                |                      |
| 26 56 13 00-0185 | EA  |     | 18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 2,179.40               | 460.44               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 37.76                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -73.36                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -134.14                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -280.87                |                      |
| 26 56 13 00-0186 | EA  |     | 20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 2,301.73               | 502.30               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 38.91                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -77.00                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -141.03                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -295.03                |                      |
| 26 56 13 00-0187 | EA  |     | 10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 1,582.03               | 293.01               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 29.88                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -54.49                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -99.02                 |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -208.00                |                      |
| 26 56 13 00-0188 | EA  |     | 12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 1,719.80               | 334.87               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 31.50                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -58.75                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -106.99                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -224.48                |                      |
| 26 56 13 00-0189 | EA  |     | 14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 1,983.66               | 376.73               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 36.91                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -68.04                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -123.79                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -259.88                |                      |
| 26 56 13 00-0190 | EA  |     | 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 2,134.29               | 418.58               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 38.91                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -72.81                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -132.66                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -278.29                |                      |
| 26 56 13 00-0191 | EA  |     | 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....   | 2,277.20               | 460.44               |
|                  |     |     | <i>For Galvanized Finish, Add</i>  | 40.69                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>  | -77.27                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>  | -140.99                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>  | -295.54                |                      |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0192 EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....        | 2,394.38                  | 502.30                  |
| For Galvanized Finish, Add  | 41.69                     |                         |
| For >10 To 20, Deduct   | -80.71                    |                         |
| For >20 To 40, Deduct   | -147.51                   |                         |
| For >40, Deduct   | -308.93                   |                         |
| 26 56 13 00-0193 EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....        | 2,824.48                  | 669.74                  |
| For Galvanized Finish, Add  | 44.55                     |                         |
| For >10 To 20, Deduct   | -92.89                    |                         |
| For >20 To 40, Deduct   | -170.92                   |                         |
| For >40, Deduct   | -356.70                   |                         |
| 26 56 13 00-0194 EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 1,582.03                  | 293.01                  |
| For Galvanized Finish, Add  | 29.88                     |                         |
| For >10 To 20, Deduct   | -54.49                    |                         |
| For >20 To 40, Deduct   | -99.02                    |                         |
| For >40, Deduct   | -208.00                   |                         |
| 26 56 13 00-0195 EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 1,727.52                  | 334.87                  |
| For Galvanized Finish, Add  | 31.73                     |                         |
| For >10 To 20, Deduct   | -59.05                    |                         |
| For >20 To 40, Deduct   | -107.53                   |                         |
| For >40, Deduct   | -225.64                   |                         |
| 26 56 13 00-0196 EA 14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 2,024.84                  | 376.73                  |
| For Galvanized Finish, Add  | 38.14                     |                         |
| For >10 To 20, Deduct   | -69.69                    |                         |
| For >20 To 40, Deduct   | -126.67                   |                         |
| For >40, Deduct   | -266.05                   |                         |
| 26 56 13 00-0197 EA 16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 2,142.01                  | 418.58                  |
| For Galvanized Finish, Add  | 39.15                     |                         |
| For >10 To 20, Deduct   | -73.12                    |                         |
| For >20 To 40, Deduct   | -133.20                   |                         |
| For >40, Deduct   | -279.44                   |                         |
| 26 56 13 00-0198 EA 18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 2,277.20                  | 460.44                  |
| For Galvanized Finish, Add  | 40.69                     |                         |
| For >10 To 20, Deduct   | -77.27                    |                         |
| For >20 To 40, Deduct   | -140.99                   |                         |
| For >40, Deduct   | -295.54                   |                         |
| 26 56 13 00-0199 EA 20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 2,394.38                  | 502.30                  |
| For Galvanized Finish, Add  | 41.69                     |                         |
| For >10 To 20, Deduct   | -80.71                    |                         |
| For >20 To 40, Deduct   | -147.51                   |                         |
| For >40, Deduct   | -308.93                   |                         |
| 26 56 13 00-0200 EA 25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 2,896.54                  | 669.74                  |
| For Galvanized Finish, Add  | 46.71                     |                         |
| For >10 To 20, Deduct   | -95.77                    |                         |
| For >20 To 40, Deduct   | -175.97                   |                         |
| For >40, Deduct   | -367.51                   |                         |
| 26 56 13 00-0201 EA 30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....   | 3,197.80                  | 753.45                  |
| For Galvanized Finish, Add  | 50.73                     |                         |
| For >10 To 20, Deduct   | -105.31                   |                         |
| For >20 To 40, Deduct   | -193.71                   |                         |
| For >40, Deduct   | -404.33                   |                         |
| 26 56 13 00-0202 EA 20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....        | 2,559.10                  | 502.30                  |
| For Galvanized Finish, Add  | 46.64                     |                         |
| For >10 To 20, Deduct   | -87.30                    |                         |
| For >20 To 40, Deduct   | -159.05                   |                         |
| For >40, Deduct   | -333.64                   |                         |
| 26 56 13 00-0203 EA 25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....        | 2,930.00                  | 669.74                  |
| For Galvanized Finish, Add  | 47.72                     |                         |
| For >10 To 20, Deduct   | -97.11                    |                         |
| For >20 To 40, Deduct   | -178.31                   |                         |
| For >40, Deduct   | -372.53                   |                         |
| 26 56 13 00-0204 EA 30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....        | 3,262.14                  | 753.45                  |
| For Galvanized Finish, Add  | 52.66                     |                         |
| For >10 To 20, Deduct   | -107.88                   |                         |
| For >20 To 40, Deduct   | -198.21                   |                         |
| For >40, Deduct   | -413.98                   |                         |
| <b>26 56 13 00-0205 Round Tapered, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>               |                           |                         |
| <b>26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0205)</small>  |                           |                         |
| 26 56 13 00-0207 EA 20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base..... | 3,140.75                  | 502.30                  |
| For Galvanized Finish, Add  | 64.08                     |                         |
| For >10 To 20, Deduct   | -110.56                   |                         |
| For >20 To 40, Deduct   | -199.76                   |                         |
| For >40, Deduct   | -420.88                   |                         |
| 26 56 13 00-0208 EA 20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base..... | 3,220.53                  | 502.30                  |
| For Galvanized Finish, Add  | 66.48                     |                         |
| For >10 To 20, Deduct   | -113.75                   |                         |
| For >20 To 40, Deduct   | -205.35                   |                         |
| For >40, Deduct   | -432.85                   |                         |
| 26 56 13 00-0209 EA 25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base..... | 3,730.41                  | 669.74                  |
| For Galvanized Finish, Add  | 71.73                     |                         |
| For >10 To 20, Deduct   | -129.12                   |                         |
| For >20 To 40, Deduct   | -234.34                   |                         |
| For >40, Deduct   | -492.59                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 56 13 00-0210 EA 25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,895.12<br>76.67<br>-135.71<br>-245.87<br>-517.29     | 669.74                  |
| 26 56 13 00-0211 EA 30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 4,155.21<br>79.45<br>-143.60<br>-260.73<br>-547.94     | 753.45                  |
| 26 56 13 00-0212 EA 30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 4,430.59<br>87.71<br>-154.62<br>-280.00<br>-589.24     | 753.45                  |
| 26 56 13 00-0213 EA 35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 4,570.93<br>89.41<br>-158.98<br>-288.15<br>-606.11     | 795.31                  |
| 26 56 13 00-0214 EA 35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 4,740.79<br>94.51<br>-165.77<br>-300.04<br>-631.59     | 795.31                  |
| 26 56 13 00-0215 EA 35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 5,147.43<br>106.70<br>-182.04<br>-328.51<br>-692.58    | 795.31                  |
| 26 56 13 00-0216 EA 39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 5,200.26<br>105.78<br>-182.90<br>-330.53<br>-696.32    | 837.16                  |
| 26 56 13 00-0217 EA 39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 5,272.32<br>107.94<br>-185.78<br>-335.58<br>-707.13    | 837.16                  |
| 26 56 13 00-0218 EA 45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 7,161.84<br>149.56<br>-253.82<br>-457.80<br>-965.44    | 1,088.32                |
| 26 56 13 00-0219 EA 50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 7,481.26<br>149.09<br>-261.58<br>-473.46<br>-996.61    | 1,255.75                |
| 26 56 13 00-0220 EA 25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>   | 5,012.10<br>110.18<br>-180.39<br>-324.06<br>-684.84    | 669.74                  |
| 26 56 13 00-0221 EA 30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>   | 5,689.11<br>125.47<br>-204.96<br>-368.10<br>-778.02    | 753.45                  |
| 26 56 13 00-0222 EA 39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>   | 6,587.47<br>147.39<br>-238.38<br>-427.64<br>-904.40    | 837.16                  |
| 26 56 13 00-0223 EA 45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 7,964.82<br>173.65<br>-285.94<br>-514.00<br>-1,085.89  | 1,088.32                |
| 26 56 13 00-0224 EA 50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 9,293.12<br>203.45<br>-334.05<br>-600.29<br>-1,268.39  | 1,255.75                |
| 26 56 13 00-0225 EA 50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 10,340.60<br>234.87<br>-375.95<br>-673.61<br>-1,425.52 | 1,255.75                |
| 26 56 13 00-0226 EA 50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 13,840.80<br>339.88<br>-515.96<br>-918.63<br>-1,950.55 | 1,255.75                |



**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                                | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|--|-------------------------|
| 26 56 13 00-0227        | EA  | 50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 15,539.42<br>390.84<br>-583.90<br>-1,037.53<br>-2,205.34 | 1,255.75                |
| <b>26 56 13 00-0228</b> |     | <b>Square Straight, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>  |  |                         |
| <b>26 56 13 00-0229</b> |     | <b>Square Straight, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0228)</small>   |  |                         |
| 26 56 13 00-0230        | EA  | 10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 1,494.53<br>27.26<br>-50.99<br>-92.90<br>-194.88         | 293.01                  |
| 26 56 13 00-0231        | EA  | 12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 1,578.25<br>27.26<br>-53.08<br>-97.08<br>-203.25         | 334.87                  |
| 26 56 13 00-0232        | EA  | 14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 1,705.71<br>28.57<br>-56.93<br>-104.33<br>-218.18        | 376.73                  |
| 26 56 13 00-0233        | EA  | 15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 1,809.34<br>30.42<br>-60.44<br>-110.75<br>-231.64        | 397.66                  |
| 26 56 13 00-0234        | EA  | 16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 1,851.19<br>30.42<br>-61.49<br>-112.84<br>-235.82        | 418.58                  |
| 26 56 13 00-0235        | EA  | 18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 1,963.22<br>31.27<br>-64.72<br>-119.01<br>-248.44        | 460.44                  |
| 26 56 13 00-0236        | EA  | 20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 2,070.10<br>31.97<br>-67.74<br>-124.82<br>-260.29        | 502.30                  |
| 26 56 13 00-0237        | EA  | 25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 2,559.39<br>36.60<br>-82.28<br>-152.37<br>-316.94        | 669.74                  |
| 26 56 13 00-0238        | EA  | 20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 2,417.54<br>42.39<br>-81.63<br>-149.14<br>-312.40        | 502.30                  |
| 26 56 13 00-0239        | EA  | 25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 3,038.09<br>50.96<br>-101.43<br>-185.88<br>-388.74       | 669.74                  |
| 26 56 13 00-0240        | EA  | 30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>       | 3,486.05<br>59.37<br>-116.84<br>-213.89<br>-447.56       | 753.45                  |
| 26 56 13 00-0241        | EA  | 20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>        | 2,322.32<br>39.53<br>-77.82<br>-142.47<br>-298.12        | 502.30                  |
| 26 56 13 00-0242        | EA  | 25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>        | 2,852.79<br>45.40<br>-94.02<br>-172.91<br>-360.95        | 669.74                  |
| 26 56 13 00-0243        | EA  | 30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>        | 3,326.48<br>54.59<br>-110.46<br>-202.72<br>-423.63       | 753.45                  |
| 26 56 13 00-0244        | EA  | 20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>        | 2,649.18<br>49.34<br>-90.90<br>-165.35<br>-347.15        | 502.30                  |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 56 13 00-0245 | EA  |     | 25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....                    | 3,269.72               | 669.74               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 57.91                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -110.70                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -202.09                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -423.48                |                      |
| 26 56 13 00-0246 | EA  |     | 30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....                    | 3,704.81               | 753.45               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 65.94                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -125.59                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -229.20                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -480.38                |                      |
| 26 56 13 00-0247 | EA  |     | 35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....                    | 4,107.67               | 795.31               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 75.51                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -140.45                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -255.72                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -536.62                |                      |
| 26 56 13 00-0248 | EA  |     | 30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....                    | 4,211.83               | 753.45               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 81.15                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -145.87                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -264.69                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -556.43                |                      |
| 26 56 13 00-0249 | EA  |     | 35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....                    | 4,617.26               | 795.31               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 90.80                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -160.83                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -291.40                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -613.06                |                      |
| 26 56 13 00-0250 | EA  |     | 40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....                    | 4,883.70               | 837.16               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 96.28                  |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -170.23                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -308.37                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -648.84                |                      |
| 26 56 13 00-0251 |     |     | <b>Hinged, Square Straight, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>              |                        |                      |
| 26 56 13 00-0252 |     |     | <b>Hinged, Square Straight, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0251)</small> |                        |                      |
| 26 56 13 00-0253 | EA  |     | 20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 5,272.28               | 502.30               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 128.03                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -195.82                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -348.97                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -740.61                |                      |
| 26 56 13 00-0254 | EA  |     | 25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 5,897.32               | 669.74               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 136.74                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -215.80                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -386.02                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -817.62                |                      |
| 26 56 13 00-0255 | EA  |     | 30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 8,232.81               | 753.45               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 201.78                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -306.71                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -546.16                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -1,159.58              |                      |
| 26 56 13 00-0256 | EA  |     | 20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 5,376.31               | 502.30               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 131.15                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -199.98                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -356.25                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -756.22                |                      |
| 26 56 13 00-0257 | EA  |     | 25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 6,502.30               | 669.74               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 154.88                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -240.00                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -428.37                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -908.37                |                      |
| 26 56 13 00-0258 | EA  |     | 30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 9,133.43               | 753.45               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 228.80                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -342.73                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -609.20                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -1,294.67              |                      |
| 26 56 13 00-0259 | EA  |     | 35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 10,473.64              | 795.31               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 266.49                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -395.09                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -701.34                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -1,491.52              |                      |
| 26 56 13 00-0260 | EA  |     | 39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....       | 12,301.11              | 837.16               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 318.80                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -466.93                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -827.59                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -1,761.45              |                      |
| 26 56 13 00-0261 | EA  |     | 20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....           | 5,108.04               | 502.30               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 123.10                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -189.25                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -337.47                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -715.98                |                      |
| 26 56 13 00-0262 | EA  |     | 25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....           | 5,634.53               | 669.74               |
|                  |     |     | <i>For Galvanized Finish, Add</i>   | 128.85                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -205.29                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -367.63                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -778.21                |                      |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                                 | DEMOLITION UNIT COST |
|------------------|-----|-----|--|--|----------------------|
| 26 56 13 00-0263 | EA  |     | 30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>    | 7,770.18<br>187.90<br>-288.20<br>-513.77<br>-1,090.18  | 753.45               |
| 26 56 13 00-0264 | EA  |     | 20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 5,296.92<br>128.77<br>-196.81<br>-350.69<br>-744.31    | 502.30               |
| 26 56 13 00-0265 | EA  |     | 25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 6,255.93<br>147.49<br>-230.15<br>-411.13<br>-871.42    | 669.74               |
| 26 56 13 00-0266 | EA  |     | 30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 8,791.25<br>218.53<br>-329.05<br>-585.25<br>-1,243.34  | 753.45               |
| 26 56 13 00-0267 | EA  |     | 20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 5,587.09<br>137.47<br>-208.41<br>-371.00<br>-787.83    | 502.30               |
| 26 56 13 00-0268 | EA  |     | 25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 6,778.78<br>163.18<br>-251.06<br>-447.73<br>-949.84    | 669.74               |
| 26 56 13 00-0269 | EA  |     | 30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 9,407.18<br>237.01<br>-353.68<br>-628.36<br>-1,335.73  | 753.45               |
| 26 56 13 00-0270 | EA  |     | 35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 10,807.61<br>276.51<br>-408.45<br>-724.72<br>-1,541.61 | 795.31               |
| 26 56 13 00-0271 | EA  |     | 39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 12,479.04<br>324.14<br>-474.05<br>-840.05<br>-1,788.14 | 837.16               |
| 26 56 13 00-0272 |     |     | Square Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>   |  |                      |
| 26 56 13 00-0273 |     |     | Square Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0272)</small>  |  |                      |
| 26 56 13 00-0274 | EA  |     | 20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>     | 4,008.07<br>90.10<br>-145.25<br>-260.47<br>-550.98     | 502.30               |
| 26 56 13 00-0275 | EA  |     | 25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>     | 4,873.12<br>106.01<br>-174.83<br>-314.33<br>-663.99    | 669.74               |
| 26 56 13 00-0276 | EA  |     | 30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>     | 5,424.03<br>117.51<br>-194.36<br>-349.54<br>-738.26    | 753.45               |
| 26 56 13 00-0277 | EA  |     | 35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>     | 6,014.76<br>132.72<br>-216.73<br>-389.22<br>-822.68    | 795.31               |
| 26 56 13 00-0278 | EA  |     | 39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>     | 6,340.39<br>139.98<br>-228.50<br>-410.34<br>-867.34    | 837.16               |
| 26 56 13 00-0279 | EA  |     | 20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>      | 5,163.65<br>124.77<br>-191.48<br>-341.36<br>-724.32    | 502.30               |
| 26 56 13 00-0280 | EA  |     | 25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>      | 5,779.05<br>133.19<br>-211.07<br>-377.74<br>-799.88    | 669.74               |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                                     | DEMOLITION UNIT COST |
|------------------|-----|-----|---|--|----------------------|
| 26 56 13 00-0281 | EA  |     | 30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 6,165.24<br>139.75<br>-224.01<br>-401.43<br>-849.44        | 753.45               |
| 26 56 13 00-0282 | EA  |     | 30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 6,844.69<br>160.13<br>-251.18<br>-448.99<br>-951.36        | 753.45               |
| 26 56 13 00-0283 | EA  |     | 35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 7,417.41<br>174.80<br>-272.84<br>-487.41<br>-1,033.08      | 795.31               |
| 26 56 13 00-0284 | EA  |     | 35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 8,259.00<br>200.05<br>-306.50<br>-546.32<br>-1,159.32      | 795.31               |
| 26 56 13 00-0285 | EA  |     | 39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 7,539.72<br>175.96<br>-276.47<br>-494.29<br>-1,047.24      | 837.16               |
| 26 56 13 00-0286 | EA  |     | 39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 9,611.53<br>238.12<br>-359.35<br>-639.32<br>-1,358.01      | 837.16               |
| 26 56 13 00-0287 | EA  |     | 45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 8,914.51<br>202.14<br>-323.93<br>-580.48<br>-1,228.34      | 1,088.32             |
| 26 56 13 00-0288 | EA  |     | 45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 10,327.45<br>244.52<br>-380.45<br>-679.39<br>-1,440.29     | 1,088.32             |
| 26 56 13 00-0289 | EA  |     | 50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base .....<br><i>For Galvanized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 10,734.38<br>246.69<br>-391.70<br>-701.18<br>-1,484.58     | 1,255.75             |
| 26 56 13 00-0290 |     |     | <b>Factory Accessories For Steel Area Light Poles</b> (26 56 13 00-0178)  |  |                      |
| 26 56 13 00-0291 | EA  |     | 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....   | 91.25  |                      |
| 26 56 13 00-0292 | EA  |     | Extra Handhole For Steel Area Light Poles .....   | 135.70   |                      |
| 26 56 13 00-0293 | EA  |     | Vibration Dampener For Steel Area Light Poles .....   | 138.04   |                      |
| 26 56 13 00-0294 |     |     | <b>Aluminum Area Light Poles</b> (26 56 13 00-0177)<br>Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.                     |  |                      |
| 26 56 13 00-0295 |     |     | <b>Round Straight, Aluminum Area Light Poles</b> (26 56 13 00-0294)   |  |                      |
| 26 56 13 00-0296 |     |     | <b>Round Straight, Aluminum Area Light Poles, Anchor Base</b> (26 56 13 00-0295)  |  |                      |
| 26 56 13 00-0297 | EA  |     | 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 948.07<br>44.58<br>89.15<br>-30.39<br>-56.32<br>-117.10    | 251.15               |
| 26 56 13 00-0298 | EA  |     | 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,054.65<br>46.86<br>93.73<br>-33.40<br>-62.11<br>-128.90  | 293.01               |
| 26 56 13 00-0299 | EA  |     | 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,166.95<br>49.72<br>99.44<br>-36.63<br>-68.29<br>-141.56  | 334.87               |
| 26 56 13 00-0300 | EA  |     | 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,280.38<br>52.69<br>105.39<br>-39.91<br>-74.56<br>-154.38 | 376.73               |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                                       | DEMOLITION UNIT COST |
|-------|------------|-----|---|--|----------------------|
| 26 56 | 13 00-0301 | EA  | 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,341.67<br>54.64<br>109.27<br>-41.74<br>-78.01<br>-161.49   | 397.66               |
| 26 56 | 13 00-0302 | EA  | 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,401.81<br>56.47<br>112.93<br>-43.52<br>-81.38<br>-168.41   | 418.58               |
| 26 56 | 13 00-0303 | EA  | 16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,470.39<br>63.32<br>126.65<br>-46.26<br>-86.18<br>-178.70   | 418.58               |
| 26 56 | 13 00-0304 | EA  | 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,597.54<br>67.67<br>135.33<br>-50.09<br>-93.41<br>-193.59   | 460.44               |
| 26 56 | 13 00-0305 | EA  | 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,717.84<br>71.32<br>142.65<br>-53.64<br>-100.16<br>-207.45  | 502.30               |
| 26 56 | 13 00-0306 | EA  | 15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,594.27<br>79.90<br>159.79<br>-51.84<br>-95.69<br>-199.38   | 397.66               |
| 26 56 | 13 00-0307 | EA  | 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,970.44<br>96.58<br>193.17<br>-63.75<br>-117.84<br>-245.34  | 502.30               |
| 26 56 | 13 00-0308 | EA  | 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,098.46<br>109.39<br>218.77<br>-68.87<br>-126.80<br>-264.54 | 502.30               |
| 26 56 | 13 00-0309 | EA  | 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,553.35<br>121.39<br>242.78<br>-82.04<br>-151.95<br>-316.03 | 669.74               |
| 26 56 | 13 00-0310 | EA  | 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,948.24<br>144.13<br>288.27<br>-95.33<br>-176.24<br>-366.89 | 753.45               |
| 26 56 | 13 00-0311 | EA  | 20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,796.71<br>79.21<br>158.42<br>-56.80<br>-105.68<br>-219.28  | 502.30               |
| 26 56 | 13 00-0312 | EA  | 20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,088.17<br>108.36<br>216.71<br>-68.46<br>-126.08<br>-263.00 | 502.30               |
| 26 56 | 13 00-0313 | EA  | 25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,535.06<br>119.56<br>239.12<br>-81.31<br>-150.66<br>-313.29 | 669.74               |
| 26 56 | 13 00-0314 | EA  | 25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,700.79<br>136.13<br>272.26<br>-87.94<br>-162.27<br>-338.15 | 669.74               |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                     | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 56 13 00-0315 EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,135.69<br>162.88<br>325.76<br>-102.82<br>-189.36<br>-395.01 | 753.45                  |
| <b>26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base</b> <small>(26 56 13 00-0295)</small>   |   |                         |
| 26 56 13 00-0317 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,064.66<br>84.35<br>-35.05<br>-64.48<br>-134.58              | 251.15                  |
| 26 56 13 00-0318 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,194.10<br>91.21<br>-38.97<br>-71.87<br>-149.81              | 293.01                  |
| 26 56 13 00-0319 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,318.97<br>97.38<br>-42.71<br>-78.93<br>-164.36              | 334.87                  |
| 26 56 13 00-0320 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,422.11<br>100.30<br>-45.58<br>-84.48<br>-175.64             | 376.73                  |
| 26 56 13 00-0321 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,538.97<br>105.27<br>-49.00<br>-90.98<br>-188.99             | 418.58                  |
| 26 56 13 00-0322 EA 10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,218.10<br>94.81<br>-39.93<br>-73.55<br>-153.41              | 293.01                  |
| 26 56 13 00-0323 EA 12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,340.69<br>100.64<br>-43.58<br>-80.45<br>-167.62             | 334.87                  |
| 26 56 13 00-0324 EA 14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,466.69<br>106.99<br>-47.37<br>-87.60<br>-182.33             | 376.73                  |
| 26 56 13 00-0325 EA 16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,591.55<br>113.16<br>-51.10<br>-94.67<br>-196.87             | 418.58                  |
| 26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,722.13<br>120.19<br>-55.07<br>-102.13<br>-212.28            | 460.44                  |
| 26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,845.86<br>126.19<br>-58.77<br>-109.12<br>-226.65            | 502.30                  |
| 26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,385.26<br>107.33<br>-45.36<br>-83.57<br>-174.30             | 334.87                  |
| 26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,519.27<br>114.87<br>-49.47<br>-91.28<br>-190.22             | 376.73                  |
| 26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,652.13<br>122.25<br>-53.53<br>-98.91<br>-205.96             | 418.58                  |
| 26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                            | 1,787.28<br>129.96<br>-57.68<br>-106.69<br>-222.05            | 460.44                  |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,716.13<br>131.85<br>-56.09<br>-103.39<br>-215.56         | 418.58                  |
| 26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,995.59<br>148.65<br>-64.75<br>-119.60<br>-249.11         | 502.30                  |
| 26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,427.56<br>113.67<br>-47.06<br>-86.53<br>-180.65          | 334.87                  |
| 26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,574.13<br>123.10<br>-51.66<br>-95.12<br>-198.45          | 376.73                  |
| 26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,709.28<br>130.82<br>-55.81<br>-102.91<br>-214.53         | 418.58                  |
| 26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,851.29<br>139.56<br>-60.24<br>-111.17<br>-231.65         | 460.44                  |
| 26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,989.87<br>147.79<br>-64.53<br>-119.20<br>-248.25         | 502.30                  |
| 26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,792.72<br>143.33<br>-59.15<br>-108.75<br>-227.05         | 418.58                  |
| 26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,945.02<br>153.62<br>-63.99<br>-117.73<br>-245.71         | 460.44                  |
| 26 56 13 00-0341 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 2,025.31<br>153.11<br>-65.94<br>-121.68<br>-253.57         | 502.30                  |
| <b>26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0295)</small><br>Note: Includes rubberized undercoating on embedded portion.   |  |                         |
| 26 56 13 00-0343 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 839.21<br>42.06<br>84.13<br>-27.29<br>-50.37<br>-104.95    | 209.30                  |
| 26 56 13 00-0344 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 902.78<br>44.23<br>88.47<br>-29.20<br>-53.99<br>-112.40    | 230.22                  |
| 26 56 13 00-0345 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 996.08<br>49.38<br>98.76<br>-32.31<br>-59.68<br>-124.30    | 251.15                  |
| 26 56 13 00-0346 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,022.37<br>52.01<br>104.01<br>-33.36<br>-61.52<br>-128.24 | 251.15                  |
| 26 56 13 00-0347 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,055.52<br>55.32<br>110.64<br>-34.69<br>-63.84<br>-133.21 | 251.15                  |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 56 13 00-0348        | EA  |     | 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial .....         | 1,197.95               | 272.08               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 65.38                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 130.76                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -39.76                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -72.97                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -152.49                |                      |
| 26 56 13 00-0349        | EA  |     | 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial .....         | 1,282.11               | 293.01               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 69.61                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 139.22                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -42.49                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -78.03                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -163.02                |                      |
| 26 56 13 00-0350        | EA  |     | 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial .....         | 1,459.28               | 293.01               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 87.33                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 174.65                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -49.58                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -90.43                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -189.59                |                      |
| 26 56 13 00-0351        | EA  |     | 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial .....         | 1,770.46               | 334.87               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 110.07                 |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 220.14                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -60.77                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -110.54                |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -232.08                |                      |
| 26 56 13 00-0352        | EA  |     | 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial .....         | 2,007.33               | 376.73               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 125.39                 |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 250.78                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -68.99                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -125.44                |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -263.43                |                      |
| 26 56 13 00-0353        | EA  |     | 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial .....         | 2,216.50               | 376.73               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 146.31                 |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 292.61                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -77.36                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -140.09                |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -294.80                |                      |
| <b>26 56 13 00-0354</b> |     |     | <b>Round Tapered, Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>              |                        |                      |
| <b>26 56 13 00-0355</b> |     |     | <b>Round Tapered, Aluminum Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0354)</small> |                        |                      |
| 26 56 13 00-0356        | EA  |     | 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....             | 825.77                 | 251.15               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 32.35                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 64.69                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -25.50                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -47.76                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -98.75                 |                      |
| 26 56 13 00-0357        | EA  |     | 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....            | 935.78                 | 293.01               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 34.98                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 69.95                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -28.64                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -53.78                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -111.07                |                      |
| 26 56 13 00-0358        | EA  |     | 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....            | 1,045.79               | 334.87               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 37.61                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 75.21                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -31.79                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -59.81                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -123.38                |                      |
| 26 56 13 00-0359        | EA  |     | 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....            | 1,166.08               | 376.73               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 41.26                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 82.53                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -35.34                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -66.56                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -137.24                |                      |
| 26 56 13 00-0360        | EA  |     | 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....            | 1,285.22               | 418.58               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 44.81                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 89.61                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -38.85                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -73.22                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -150.93                |                      |
| 26 56 13 00-0361        | EA  |     | 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....            | 965.50                 | 293.01               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 37.95                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 75.90                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -29.83                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -55.86                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -115.52                |                      |
| 26 56 13 00-0362        | EA  |     | 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....            | 1,092.65               | 334.87               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 42.29                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 84.58                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -33.66                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -63.09                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -130.41                |                      |



**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                                      | DEMOLITION UNIT COST |
|-------|------------|-----|--|---|----------------------|
| 26 56 | 13 00-0363 | EA  | 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,216.37<br>46.29<br>92.58<br>-37.35<br>-70.08<br>-144.78   | 376.73               |
| 26 56 | 13 00-0364 | EA  | 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,455.81<br>53.49<br>106.99<br>-44.42<br>-83.49<br>-172.33  | 460.44               |
| 26 56 | 13 00-0365 | EA  | 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,568.10<br>56.35<br>112.70<br>-47.66<br>-89.68<br>-184.99  | 502.30               |
| 26 56 | 13 00-0366 | EA  | 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,134.95<br>46.52<br>93.04<br>-35.35<br>-66.05<br>-136.76   | 334.87               |
| 26 56 | 13 00-0367 | EA  | 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,265.52<br>51.21<br>102.41<br>-39.32<br>-73.52<br>-152.16  | 376.73               |
| 26 56 | 13 00-0368 | EA  | 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,404.09<br>56.69<br>113.39<br>-43.61<br>-81.54<br>-168.76  | 418.58               |
| 26 56 | 13 00-0369 | EA  | 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,522.10<br>60.12<br>120.24<br>-47.07<br>-88.13<br>-182.27  | 460.44               |
| 26 56 | 13 00-0370 | EA  | 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,656.12<br>65.15<br>130.30<br>-51.18<br>-95.84<br>-198.19  | 502.30               |
| 26 56 | 13 00-0371 | EA  | 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,516.11<br>67.90<br>135.79<br>-48.09<br>-89.38<br>-185.56  | 418.58               |
| 26 56 | 13 00-0372 | EA  | 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,664.98<br>74.41<br>148.82<br>-52.79<br>-98.13<br>-203.70  | 460.44               |
| 26 56 | 13 00-0373 | EA  | 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,766.99<br>76.24<br>152.48<br>-55.61<br>-103.60<br>-214.82 | 502.30               |
| 26 56 | 13 00-0374 | EA  | 23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,036.15<br>86.41<br>172.82<br>-63.87<br>-119.09<br>-246.82 | 586.02               |
| 26 56 | 13 00-0375 | EA  | 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,312.17<br>97.27<br>194.54<br>-72.39<br>-135.06<br>-279.85 | 669.74               |
| 26 56 | 13 00-0376 | EA  | 18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,776.99<br>85.61<br>171.22<br>-57.27<br>-105.97<br>-220.50 | 460.44               |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                                     | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 26 56 13 00-0377 EA 20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,903.01<br>89.84<br>179.68<br>-61.05<br>-113.12<br>-235.22   | 502.30                  |
| 26 56 13 00-0378 EA 23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,143.59<br>97.16<br>194.31<br>-68.16<br>-126.61<br>-262.94   | 586.02                  |
| 26 56 13 00-0379 EA 25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,394.47<br>105.50<br>211.00<br>-75.69<br>-140.82<br>-292.20  | 669.74                  |
| 26 56 13 00-0380 EA 28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,570.77<br>114.76<br>229.52<br>-81.48<br>-151.49<br>-314.46  | 711.59                  |
| 26 56 13 00-0381 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,749.35<br>124.25<br>248.49<br>-87.37<br>-162.32<br>-337.06  | 753.45                  |
| 26 56 13 00-0382 EA 23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,249.89<br>107.79<br>215.57<br>-72.42<br>-134.05<br>-278.88  | 586.02                  |
| 26 56 13 00-0383 EA 25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,465.33<br>112.59<br>225.17<br>-78.52<br>-145.78<br>-302.83  | 669.74                  |
| 26 56 13 00-0384 EA 28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,647.35<br>122.42<br>244.83<br>-84.55<br>-156.85<br>-325.94  | 711.59                  |
| 26 56 13 00-0385 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,868.22<br>136.13<br>272.26<br>-92.13<br>-170.64<br>-354.89  | 753.45                  |
| 26 56 13 00-0386 EA 33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,961.52<br>141.28<br>282.55<br>-95.23<br>-176.33<br>-366.79  | 774.38                  |
| 26 56 13 00-0387 EA 35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,141.68<br>155.11<br>310.21<br>-101.81<br>-188.11<br>-391.72 | 795.31                  |
| 26 56 13 00-0388 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,181.81<br>51.21<br>102.41<br>-37.23<br>-69.33<br>-143.78    | 334.87                  |
| 26 56 13 00-0389 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,320.38<br>56.69<br>113.39<br>-41.51<br>-77.36<br>-160.38    | 376.73                  |
| 26 56 13 00-0390 EA 16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,463.53<br>62.64<br>125.27<br>-45.98<br>-85.70<br>-177.67    | 418.58                  |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|-------|------------|-----|--|---|----------------------|
| 26 56 | 13 00-0391 | EA  | 18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,594.11<br>67.32<br>134.65<br>-49.95<br>-93.17<br>-193.07    | 460.44               |
| 26 56 | 13 00-0392 | EA  | 20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,723.55<br>71.90<br>143.79<br>-53.87<br>-100.56<br>-208.30   | 502.30               |
| 26 56 | 13 00-0393 | EA  | 16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,588.12<br>75.10<br>150.19<br>-50.97<br>-94.43<br>-196.36    | 418.58               |
| 26 56 | 13 00-0394 | EA  | 18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,740.42<br>81.95<br>163.91<br>-55.80<br>-103.41<br>-215.02   | 460.44               |
| 26 56 | 13 00-0395 | EA  | 20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,857.29<br>85.27<br>170.54<br>-59.22<br>-109.92<br>-228.36   | 502.30               |
| 26 56 | 13 00-0396 | EA  | 23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,120.73<br>94.87<br>189.74<br>-67.25<br>-125.01<br>-259.51   | 586.02               |
| 26 56 | 13 00-0397 | EA  | 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,391.04<br>105.16<br>210.31<br>-75.55<br>-140.58<br>-291.68  | 669.74               |
| 26 56 | 13 00-0398 | EA  | 23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,379.05<br>120.70<br>241.40<br>-77.58<br>-143.09<br>-298.26  | 586.02               |
| 26 56 | 13 00-0399 | EA  | 25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,636.79<br>129.73<br>259.46<br>-85.38<br>-157.79<br>-328.55  | 669.74               |
| 26 56 | 13 00-0400 | EA  | 28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 2,832.52<br>140.93<br>281.87<br>-91.95<br>-169.81<br>-353.72  | 711.59               |
| 26 56 | 13 00-0401 | EA  | 30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,008.82<br>150.19<br>300.38<br>-97.75<br>-180.48<br>-375.98  | 753.45               |
| 26 56 | 13 00-0402 | EA  | 33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,161.55<br>161.28<br>322.56<br>-103.23<br>-190.33<br>-396.79 | 774.38               |
| 26 56 | 13 00-0403 | EA  | 35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,295.99<br>170.54<br>341.07<br>-107.98<br>-198.91<br>-414.87 | 795.31               |
| 26 56 | 13 00-0404 | EA  | 37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,412.14<br>177.97<br>355.93<br>-112.00<br>-206.20<br>-430.20 | 816.24               |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                     | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 56 13 00-0405 EA 39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,614.02<br>193.97<br>387.94<br>-119.45<br>-219.49<br>-458.39 | 837.16                  |
| 26 56 13 00-0406 EA 28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,326.30<br>190.31<br>380.62<br>-111.70<br>-204.38<br>-427.79 | 711.59                  |
| 26 56 13 00-0407 EA 30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,580.32<br>207.34<br>414.68<br>-120.61<br>-220.48<br>-461.70 | 753.45                  |
| 26 56 13 00-0408 EA 33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,755.91<br>220.72<br>441.43<br>-127.01<br>-231.94<br>-485.95 | 774.38                  |
| 26 56 13 00-0409 EA 35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,891.50<br>230.09<br>460.18<br>-131.80<br>-240.59<br>-504.19 | 795.31                  |
| 26 56 13 00-0410 EA 37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,971.07<br>233.86<br>467.72<br>-134.36<br>-245.33<br>-514.04 | 816.24                  |
| 26 56 13 00-0411 EA 39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 4,192.38<br>251.81<br>503.61<br>-142.58<br>-259.98<br>-545.14 | 837.16                  |
| 26 56 13 00-0412 EA 28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,169.71<br>174.65<br>349.30<br>-105.44<br>-193.42<br>-404.30 | 711.59                  |
| 26 56 13 00-0413 EA 30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,403.15<br>189.63<br>379.25<br>-113.52<br>-208.08<br>-435.13 | 753.45                  |
| 26 56 13 00-0414 EA 33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,496.45<br>194.77<br>389.54<br>-116.63<br>-213.78<br>-447.03 | 774.38                  |
| 26 56 13 00-0415 EA 35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,721.19<br>213.06<br>426.11<br>-124.99<br>-228.67<br>-478.65 | 795.31                  |
| 26 56 13 00-0416 EA 37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 3,836.19<br>220.37<br>440.74<br>-128.96<br>-235.88<br>-493.81 | 816.24                  |
| 26 56 13 00-0417 EA 39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>  | 4,058.65<br>238.43<br>476.86<br>-137.23<br>-250.62<br>-525.08 | 837.16                  |
| 26 56 13 00-0418 EA 28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 3,885.23<br>246.20<br>492.41<br>-134.06<br>-243.50<br>-511.63 | 711.59                  |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST  | DEMOLITION UNIT COST |
|--|-----|-----|---|---|----------------------|
| 26 56 13 00-0419   | EA  |     | 30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 4,108.39<br>260.15<br>520.30<br>-141.73<br>-257.45<br>-540.91 | 753.45               |
| 26 56 13 00-0420   | EA  |     | 33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 4,286.27<br>273.75<br>547.50<br>-148.22<br>-269.06<br>-565.50 | 774.38               |
| 26 56 13 00-0421   | EA  |     | 35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 4,556.73<br>296.61<br>593.22<br>-158.41<br>-287.16<br>-603.98 | 795.31               |
| 26 56 13 00-0422   | EA  |     | 37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 4,623.73<br>299.13<br>598.25<br>-160.46<br>-291.01<br>-611.94 | 816.24               |
| 26 56 13 00-0423   | EA  |     | 39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 4,893.05<br>321.87<br>643.74<br>-170.61<br>-309.03<br>-650.24 | 837.16               |
| 26 56 13 00-0424   | EA  |     | 48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 6,259.43<br>374.79<br>749.59<br>-212.70<br>-387.93<br>-813.34 | 1,255.75             |
| 26 56 13 00-0425   | EA  |     | 50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....<br><i>For Bronze Or Satin Anodized Finish, Add</i><br><i>For Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 6,401.16<br>388.97<br>777.93<br>-218.37<br>-397.85<br>-834.60 | 1,255.75             |
| <b>26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base</b> <small>(26 56 13 00-0354)</small> |     |     |   |   |                      |
| 26 56 13 00-0427   | EA  |     | 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                              | 1,071.52<br>85.38<br>-35.33<br>-64.96<br>-135.61              | 251.15               |
| 26 56 13 00-0428   | EA  |     | 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,179.24<br>88.98<br>-38.38<br>-70.83<br>-147.59              | 293.01               |
| 26 56 13 00-0429   | EA  |     | 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,288.11<br>92.76<br>-41.48<br>-76.77<br>-159.73              | 334.87               |
| 26 56 13 00-0430   | EA  |     | 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,399.25<br>96.87<br>-44.67<br>-82.88<br>-172.22              | 376.73               |
| 26 56 13 00-0431   | EA  |     | 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,509.25<br>100.81<br>-47.81<br>-88.90<br>-184.53             | 418.58               |
| 26 56 13 00-0432   | EA  |     | 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,192.96<br>91.04<br>-38.93<br>-71.79<br>-149.64              | 293.01               |
| 26 56 13 00-0433   | EA  |     | 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,304.11<br>95.16<br>-42.12<br>-77.89<br>-162.13              | 334.87               |
| 26 56 13 00-0434   | EA  |     | 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i>                             | 1,417.54<br>99.61<br>-45.40<br>-84.16<br>-174.96              | 376.73               |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                          | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 26 56 13 00-0435 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,529.82<br>103.90<br>-48.64<br>-90.34<br>-187.62  | 418.58                  |
| 26 56 13 00-0436 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,656.98<br>110.42<br>-52.47<br>-97.57<br>-202.50  | 460.44                  |
| 26 56 13 00-0437 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,773.85<br>115.39<br>-55.89<br>-104.08<br>-215.85 | 502.30                  |
| 26 56 13 00-0438 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,348.69<br>101.84<br>-43.90<br>-81.01<br>-168.82  | 334.87                  |
| 26 56 13 00-0439 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,467.83<br>107.16<br>-47.41<br>-87.68<br>-182.50  | 376.73                  |
| 26 56 13 00-0440 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,600.69<br>114.53<br>-51.47<br>-95.31<br>-198.25  | 418.58                  |
| 26 56 13 00-0441 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,722.13<br>120.19<br>-55.07<br>-102.13<br>-212.28 | 460.44                  |
| 26 56 13 00-0442 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,858.43<br>128.07<br>-59.27<br>-110.00<br>-228.53 | 502.30                  |
| 26 56 13 00-0443 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,665.84<br>124.30<br>-54.08<br>-99.87<br>-208.02  | 418.58                  |
| 26 56 13 00-0444 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,810.14<br>133.39<br>-58.59<br>-108.29<br>-225.48 | 460.44                  |
| 26 56 13 00-0445 EA 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,929.30<br>138.71<br>-62.10<br>-114.96<br>-239.17 | 502.30                  |
| 26 56 13 00-0446 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,384.12<br>107.16<br>-45.32<br>-83.49<br>-174.13  | 334.87                  |
| 26 56 13 00-0447 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,521.55<br>115.22<br>-49.56<br>-91.44<br>-190.56  | 376.73                  |
| 26 56 13 00-0448 EA 16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,665.84<br>124.30<br>-54.08<br>-99.87<br>-208.02  | 418.58                  |
| 26 56 13 00-0449 EA 18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,796.43<br>131.33<br>-58.04<br>-107.33<br>-223.42 | 460.44                  |
| 26 56 13 00-0450 EA 20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,935.01<br>139.56<br>-62.33<br>-115.36<br>-240.02 | 502.30                  |
| 26 56 13 00-0451 EA 16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base<br><i>For Bronze, Satin Or Black Anodized Finish, Add</i><br><i>For &gt;10 To 20, Deduct</i><br><i>For &gt;20 To 40, Deduct</i><br><i>For &gt;40, Deduct</i> | 1,740.14<br>135.45<br>-57.05<br>-105.07<br>-219.16 | 418.58                  |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 26 56 13 00-0452        | EA  |     | 18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....       | 1,893.58               | 460.44               |
|                         |     |     | <i>For Bronze, Satin Or Black Anodized Finish, Add</i>   | 145.91                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -61.93                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -114.13                |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -237.99                |                      |
| 26 56 13 00-0453        | EA  |     | 20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base .....       | 2,018.45               | 502.30               |
|                         |     |     | <i>For Bronze, Satin Or Black Anodized Finish, Add</i>   | 152.08                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -65.67                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -121.20                |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -252.54                |                      |
| <b>26 56 13 00-0454</b> |     |     | <b>Round Tapered, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0354)</small> |                        |                      |
|                         |     |     | Note: Includes rubberized undercoating on embedded portion.                                      |                        |                      |
| 26 56 13 00-0455        | EA  |     | 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....             | 756.91                 | 209.30               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 33.83                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 67.67                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -24.00                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -44.61                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -92.61                 |                      |
| 26 56 13 00-0456        | EA  |     | 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 788.92                 | 209.30               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 37.03                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 74.07                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -25.28                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -46.85                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -97.41                 |                      |
| 26 56 13 00-0457        | EA  |     | 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 857.06                 | 230.22               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 39.66                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 79.32                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -27.38                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -50.79                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -105.54                |                      |
| 26 56 13 00-0458        | EA  |     | 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 917.21                 | 251.15               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 41.49                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 82.98                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -29.15                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -54.16                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -112.47                |                      |
| 26 56 13 00-0459        | EA  |     | 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 958.36                 | 251.15               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 45.61                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 91.21                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -30.80                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -57.04                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -118.64                |                      |
| 26 56 13 00-0460        | EA  |     | 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 887.93                 | 230.22               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 42.75                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 85.50                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -28.61                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -52.95                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -110.17                |                      |
| 26 56 13 00-0461        | EA  |     | 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 961.79                 | 251.15               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 45.95                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 91.90                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -30.94                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -57.28                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -119.15                |                      |
| 26 56 13 00-0462        | EA  |     | 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 984.65                 | 251.15               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 48.24                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 96.47                  |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -31.85                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -58.88                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -122.58                |                      |
| 26 56 13 00-0463        | EA  |     | 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 1,063.08               | 272.08               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 51.89                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 103.79                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -34.36                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -63.53                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -132.25                |                      |
| 26 56 13 00-0464        | EA  |     | 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 1,136.95               | 293.01               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 55.09                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 110.19                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -36.69                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -67.87                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -141.24                |                      |
| 26 56 13 00-0465        | EA  |     | 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 1,050.94               | 251.15               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 54.86                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 109.73                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -34.50                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -63.52                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -132.53                |                      |
| 26 56 13 00-0466        | EA  |     | 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....            | 1,136.23               | 272.08               |
|                         |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>  | 59.21                  |                      |
|                         |     |     | <i>For Black Anodized Finish, Add</i>  | 118.42                 |                      |
|                         |     |     | <i>For &gt;10 To 20, Deduct</i>  | -37.29                 |                      |
|                         |     |     | <i>For &gt;20 To 40, Deduct</i>  | -68.65                 |                      |
|                         |     |     | <i>For &gt;40, Deduct</i>  | -143.23                |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....         | 1,215.82                  | 293.01                  |
| For Bronze Or Satin Anodized Finish, Add  | 62.98                     |                         |
| For Black Anodized Finish, Add  | 125.96                    |                         |
| For >10 To 20, Deduct   | -39.84                    |                         |
| For >20 To 40, Deduct   | -73.39                    |                         |
| For >40, Deduct   | -153.07                   |                         |
| 26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....         | 1,229.96                  | 272.08                  |
| For Bronze Or Satin Anodized Finish, Add  | 68.58                     |                         |
| For Black Anodized Finish, Add  | 137.16                    |                         |
| For >10 To 20, Deduct   | -41.04                    |                         |
| For >20 To 40, Deduct   | -75.21                    |                         |
| For >40, Deduct   | -157.29                   |                         |
| 26 56 13 00-0469 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....         | 1,569.29                  | 334.87                  |
| For Bronze Or Satin Anodized Finish, Add  | 89.96                     |                         |
| For Black Anodized Finish, Add  | 179.91                    |                         |
| For >10 To 20, Deduct   | -52.73                    |                         |
| For >20 To 40, Deduct   | -96.46                    |                         |
| For >40, Deduct   | -201.91                   |                         |
| 26 56 13 00-0470 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial .....         | 1,698.45                  | 334.87                  |
| For Bronze Or Satin Anodized Finish, Add  | 102.87                    |                         |
| For Black Anodized Finish, Add  | 205.74                    |                         |
| For >10 To 20, Deduct   | -57.89                    |                         |
| For >20 To 40, Deduct   | -105.50                   |                         |
| For >40, Deduct   | -221.28                   |                         |
| 26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....         | 1,893.03                  | 376.73                  |
| For Bronze Or Satin Anodized Finish, Add  | 113.96                    |                         |
| For Black Anodized Finish, Add  | 227.92                    |                         |
| For >10 To 20, Deduct   | -64.42                    |                         |
| For >20 To 40, Deduct   | -117.44                   |                         |
| For >40, Deduct   | -246.28                   |                         |
| 26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial .....         | 2,033.62                  | 376.73                  |
| For Bronze Or Satin Anodized Finish, Add  | 128.02                    |                         |
| For Black Anodized Finish, Add  | 256.03                    |                         |
| For >10 To 20, Deduct   | -70.04                    |                         |
| For >20 To 40, Deduct   | -127.28                   |                         |
| For >40, Deduct   | -267.37                   |                         |
| <b>26 56 13 00-0473 Square Straight, Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>              |                           |                         |
| <b>26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0473)</small> |                           |                         |
| 26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....          | 974.36                    | 251.15                  |
| For Bronze Or Satin Anodized Finish, Add  | 47.21                     |                         |
| For Black Anodized Finish, Add  | 94.41                     |                         |
| For >10 To 20, Deduct   | -31.44                    |                         |
| For >20 To 40, Deduct   | -58.16                    |                         |
| For >40, Deduct   | -121.04                   |                         |
| 26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....         | 1,082.09                  | 293.01                  |
| For Bronze Or Satin Anodized Finish, Add  | 49.61                     |                         |
| For Black Anodized Finish, Add  | 99.21                     |                         |
| For >10 To 20, Deduct   | -34.49                    |                         |
| For >20 To 40, Deduct   | -64.03                    |                         |
| For >40, Deduct   | -133.01                   |                         |
| 26 56 13 00-0477 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....         | 1,198.95                  | 334.87                  |
| For Bronze Or Satin Anodized Finish, Add  | 52.92                     |                         |
| For Black Anodized Finish, Add  | 105.84                    |                         |
| For >10 To 20, Deduct   | -37.91                    |                         |
| For >20 To 40, Deduct   | -70.53                    |                         |
| For >40, Deduct   | -146.36                   |                         |
| 26 56 13 00-0478 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....         | 1,314.67                  | 376.73                  |
| For Bronze Or Satin Anodized Finish, Add  | 56.12                     |                         |
| For Black Anodized Finish, Add  | 112.24                    |                         |
| For >10 To 20, Deduct   | -41.29                    |                         |
| For >20 To 40, Deduct   | -76.96                    |                         |
| For >40, Deduct   | -159.53                   |                         |
| 26 56 13 00-0479 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....         | 1,377.10                  | 397.66                  |
| For Bronze Or Satin Anodized Finish, Add  | 58.18                     |                         |
| For Black Anodized Finish, Add  | 116.36                    |                         |
| For >10 To 20, Deduct   | -43.15                    |                         |
| For >20 To 40, Deduct   | -80.49                    |                         |
| For >40, Deduct   | -166.80                   |                         |
| 26 56 13 00-0480 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....         | 1,439.53                  | 418.58                  |
| For Bronze Or Satin Anodized Finish, Add  | 60.24                     |                         |
| For Black Anodized Finish, Add  | 120.47                    |                         |
| For >10 To 20, Deduct   | -45.02                    |                         |
| For >20 To 40, Deduct   | -84.02                    |                         |
| For >40, Deduct   | -174.07                   |                         |
| 26 56 13 00-0481 EA 18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....         | 1,562.11                  | 460.44                  |
| For Bronze Or Satin Anodized Finish, Add  | 64.12                     |                         |
| For Black Anodized Finish, Add  | 128.25                    |                         |
| For >10 To 20, Deduct   | -48.67                    |                         |
| For >20 To 40, Deduct   | -90.93                    |                         |
| For >40, Deduct   | -188.27                   |                         |



**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 56 13 00-0482 | EA  |     | 20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 1,694.98               | 502.30               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 69.04                  |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 138.08                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -52.73                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -98.56                 |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -204.02                |                      |
| 26 56 13 00-0483 | EA  |     | 16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 1,518.39               | 418.58               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 68.12                  |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 136.25                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -48.18                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -89.54                 |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -185.90                |                      |
| 26 56 13 00-0484 | EA  |     | 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 1,643.26               | 460.44               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 72.24                  |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 144.48                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -51.92                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -96.61                 |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -200.45                |                      |
| 26 56 13 00-0485 | EA  |     | 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 1,782.99               | 502.30               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 77.84                  |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 155.68                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -56.25                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -104.72                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -217.22                |                      |
| 26 56 13 00-0486 | EA  |     | 15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 1,720.01               | 397.66               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 92.47                  |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 184.94                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -56.87                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -104.49                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -218.24                |                      |
| 26 56 13 00-0487 | EA  |     | 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 2,111.03               | 502.30               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 110.64                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 221.29                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -69.37                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -127.68                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -266.42                |                      |
| 26 56 13 00-0488 | EA  |     | 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 2,588.78               | 669.74               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 124.93                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 249.86                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -83.46                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -154.43                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -321.34                |                      |
| 26 56 13 00-0489 | EA  |     | 20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 1,853.86               | 502.30               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 84.93                  |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 169.85                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -59.09                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -109.68                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -227.85                |                      |
| 26 56 13 00-0490 | EA  |     | 20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 2,249.34               | 502.30               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 124.47                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 248.95                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -74.90                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -137.36                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -287.17                |                      |
| 26 56 13 00-0491 | EA  |     | 25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 2,714.51               | 669.74               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 137.50                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 275.01                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -88.49                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -163.23                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -340.20                |                      |
| 26 56 13 00-0492 | EA  |     | 20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 2,466.51               | 502.30               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 146.19                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 292.38                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -83.59                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -152.56                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -319.75                |                      |
| 26 56 13 00-0493 | EA  |     | 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 2,997.98               | 669.74               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 165.85                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 331.70                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -99.83                 |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -183.07                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -382.72                |                      |
| 26 56 13 00-0494 | EA  |     | 30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base ..... | 3,460.30               | 753.45               |
|                  |     |     | <i>For Bronze Or Satin Anodized Finish, Add</i>                                       | 195.34                 |                      |
|                  |     |     | <i>For Black Anodized Finish, Add</i>   | 390.68                 |                      |
|                  |     |     | <i>For &gt;10 To 20, Deduct</i>   | -115.81                |                      |
|                  |     |     | <i>For &gt;20 To 40, Deduct</i>   | -212.08                |                      |
|                  |     |     | <i>For &gt;40, Deduct</i>   | -443.70                |                      |

26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0473)  
 Note: Includes rubberized undercoating on embedded portion.



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0496 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 868.93                    | 209.30                  |
| For Bronze Or Satin Anodized Finish, Add  | 45.04                     |                         |
| For Black Anodized Finish, Add  | 90.07                     |                         |
| For >10 To 20, Deduct   | -28.48                    |                         |
| For >20 To 40, Deduct   | -52.45                    |                         |
| For >40, Deduct   | -109.41                   |                         |
| 26 56 13 00-0497 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 969.08                    | 230.22                  |
| For Bronze Or Satin Anodized Finish, Add  | 50.86                     |                         |
| For Black Anodized Finish, Add  | 101.73                    |                         |
| For >10 To 20, Deduct   | -31.86                    |                         |
| For >20 To 40, Deduct   | -58.63                    |                         |
| For >40, Deduct   | -122.34                   |                         |
| 26 56 13 00-0498 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,034.94                  | 251.15                  |
| For Bronze Or Satin Anodized Finish, Add  | 53.26                     |                         |
| For Black Anodized Finish, Add  | 106.53                    |                         |
| For >10 To 20, Deduct   | -33.86                    |                         |
| For >20 To 40, Deduct   | -62.40                    |                         |
| For >40, Deduct   | -130.13                   |                         |
| 26 56 13 00-0499 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,063.52                  | 251.15                  |
| For Bronze Or Satin Anodized Finish, Add  | 56.12                     |                         |
| For Black Anodized Finish, Add  | 112.24                    |                         |
| For >10 To 20, Deduct   | -35.01                    |                         |
| For >20 To 40, Deduct   | -64.40                    |                         |
| For >40, Deduct   | -134.41                   |                         |
| 26 56 13 00-0500 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,098.95                  | 251.15                  |
| For Bronze Or Satin Anodized Finish, Add  | 59.67                     |                         |
| For Black Anodized Finish, Add  | 119.33                    |                         |
| For >10 To 20, Deduct   | -36.42                    |                         |
| For >20 To 40, Deduct   | -66.88                    |                         |
| For >40, Deduct   | -139.73                   |                         |
| 26 56 13 00-0501 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,261.96                  | 272.08                  |
| For Bronze Or Satin Anodized Finish, Add  | 71.78                     |                         |
| For Black Anodized Finish, Add  | 143.56                    |                         |
| For >10 To 20, Deduct   | -42.32                    |                         |
| For >20 To 40, Deduct   | -77.45                    |                         |
| For >40, Deduct   | -162.09                   |                         |
| 26 56 13 00-0502 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,352.98                  | 293.01                  |
| For Bronze Or Satin Anodized Finish, Add  | 76.70                     |                         |
| For Black Anodized Finish, Add  | 153.39                    |                         |
| For >10 To 20, Deduct   | -45.33                    |                         |
| For >20 To 40, Deduct   | -82.99                    |                         |
| For >40, Deduct   | -173.65                   |                         |
| 26 56 13 00-0503 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,532.43                  | 293.01                  |
| For Bronze Or Satin Anodized Finish, Add  | 94.64                     |                         |
| For Black Anodized Finish, Add  | 189.28                    |                         |
| For >10 To 20, Deduct   | -52.51                    |                         |
| For >20 To 40, Deduct   | -95.55                    |                         |
| For >40, Deduct   | -200.56                   |                         |
| 26 56 13 00-0504 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 1,760.17                  | 334.87                  |
| For Bronze Or Satin Anodized Finish, Add  | 109.04                    |                         |
| For Black Anodized Finish, Add  | 218.09                    |                         |
| For >10 To 20, Deduct   | -60.36                    |                         |
| For >20 To 40, Deduct   | -109.82                   |                         |
| For >40, Deduct   | -230.54                   |                         |
| 26 56 13 00-0505 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial .....   | 2,161.37                  | 334.87                  |
| For Bronze Or Satin Anodized Finish, Add  | 149.16                    |                         |
| For Black Anodized Finish, Add  | 298.33                    |                         |
| For >10 To 20, Deduct   | -76.41                    |                         |
| For >20 To 40, Deduct   | -137.90                   |                         |
| For >40, Deduct   | -290.72                   |                         |
| <b>26 56 13 00-0506 Factory Accessories For Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>   |                           |                         |
| 26 56 13 00-0507 EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles .....                                   | 91.25                     |                         |
| 26 56 13 00-0508 EA Extra Handhole For Aluminum Area Light Poles .....  | 42.60                     |                         |
| 26 56 13 00-0509 EA Vibration Dampener For Aluminum Area Light Poles .....  | 138.04                    |                         |
| <b>26 56 13 00-0510 Fiberglass Area Light Poles</b> <small>(26 56 13 00-0177)</small>   |                           |                         |
| Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top. |                           |                         |
| <b>26 56 13 00-0511 Round Tapered, Fiberglass Area Light Poles</b> <small>(26 56 13 00-0510)</small>  |                           |                         |
| <b>26 56 13 00-0512 Round Tapered, Fiberglass Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0511)</small>                                   |                           |                         |
| 26 56 13 00-0513 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....   | 1,435.72                  | 293.01                  |
| For >10 To 20, Deduct   | -48.64                    |                         |
| For >20 To 40, Deduct   | -88.78                    |                         |
| For >40, Deduct   | -186.06                   |                         |
| 26 56 13 00-0514 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base .....   | 1,570.02                  | 334.87                  |
| For >10 To 20, Deduct   | -52.75                    |                         |
| For >20 To 40, Deduct   | -96.51                    |                         |
| For >40, Deduct   | -202.02                   |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|--|------------------------|----------------------|
| 26 56 | 13 00-0515 | EA  | 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 1,705.75               | 376.73               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -56.93                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -104.33                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -218.19                |                      |
| 26 56 | 13 00-0516 | EA  | 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 1,840.04               | 418.58               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -61.04                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -112.06                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -234.15                |                      |
| 26 56 | 13 00-0517 | EA  | 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,000.35               | 460.44               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -66.20                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -121.61                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -254.01                |                      |
| 26 56 | 13 00-0518 | EA  | 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,137.53               | 502.30               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -70.43                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -129.54                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -270.40                |                      |
| 26 56 | 13 00-0519 | EA  | 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,356.99               | 586.02               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -76.70                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -141.55                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -294.95                |                      |
| 26 56 | 13 00-0520 | EA  | 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,575.00               | 669.74               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -82.91                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -153.46                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -319.28                |                      |
| 26 56 | 13 00-0521 | EA  | 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,692.06               | 669.74               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -87.59                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -161.65                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -336.84                |                      |
| 26 56 | 13 00-0522 | EA  | 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,878.38               | 711.59               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -93.79                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -173.02                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -360.60                |                      |
| 26 56 | 13 00-0523 | EA  | 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 3,064.69               | 753.45               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -99.98                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -184.39                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -384.36                |                      |
| 26 56 | 13 00-0524 | EA  | 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 1,568.67               | 293.01               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -53.96                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -98.09                 |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -206.00                |                      |
| 26 56 | 13 00-0525 | EA  | 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 1,676.95               | 334.87               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -57.03                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -103.99                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -218.06                |                      |
| 26 56 | 13 00-0526 | EA  | 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 1,786.68               | 376.73               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -60.17                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -110.00                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -230.33                |                      |
| 26 56 | 13 00-0527 | EA  | 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 1,899.29               | 418.58               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -63.41                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -116.21                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -243.04                |                      |
| 26 56 | 13 00-0528 | EA  | 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,019.13               | 460.44               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -66.95                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -122.92                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -256.83                |                      |
| 26 56 | 13 00-0529 | EA  | 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,137.53               | 502.30               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -70.43                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -129.54                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -270.40                |                      |
| 26 56 | 13 00-0530 | EA  | 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,339.65               | 586.02               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -76.01                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -140.33                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -292.35                |                      |
| 26 56 | 13 00-0531 | EA  | 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,575.00               | 669.74               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -82.91                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -153.46                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -319.28                |                      |
| 26 56 | 13 00-0532 | EA  | 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,624.14               | 669.74               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -84.87                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -156.90                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -326.65                |                      |
| 26 56 | 13 00-0533 | EA  | 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,758.43               | 711.59               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -88.99                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -164.63                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -342.61                |                      |
| 26 56 | 13 00-0534 | EA  | 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... | 2,892.72               | 753.45               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -93.11                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -172.35                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -358.56                |                      |
| 26 56 | 13 00-0535 | EA  | 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....   | 1,763.75               | 293.01               |
|       |            |     | <i>For &gt;10 To 20, Deduct</i>  | -61.76                 |                      |
|       |            |     | <i>For &gt;20 To 40, Deduct</i>  | -111.74                |                      |
|       |            |     | <i>For &gt;40, Deduct</i>  | -235.26                |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0536 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 1,892.27                  | 334.87                  |
| For >10 To 20, Deduct   | -65.64                    |                         |
| For >20 To 40, Deduct   | -119.06                   |                         |
| For >40, Deduct   | -250.35                   |                         |
| 26 56 13 00-0537 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,020.78                  | 376.73                  |
| For >10 To 20, Deduct   | -69.53                    |                         |
| For >20 To 40, Deduct   | -126.39                   |                         |
| For >40, Deduct   | -265.44                   |                         |
| 26 56 13 00-0538 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,150.73                  | 418.58                  |
| For >10 To 20, Deduct   | -73.47                    |                         |
| For >20 To 40, Deduct   | -133.81                   |                         |
| For >40, Deduct   | -280.75                   |                         |
| 26 56 13 00-0539 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,286.47                  | 460.44                  |
| For >10 To 20, Deduct   | -77.65                    |                         |
| For >20 To 40, Deduct   | -141.64                   |                         |
| For >40, Deduct   | -296.93                   |                         |
| 26 56 13 00-0540 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,430.88                  | 502.30                  |
| For >10 To 20, Deduct   | -82.17                    |                         |
| For >20 To 40, Deduct   | -150.07                   |                         |
| For >40, Deduct   | -314.40                   |                         |
| 26 56 13 00-0541 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,672.01                  | 586.02                  |
| For >10 To 20, Deduct   | -89.30                    |                         |
| For >20 To 40, Deduct   | -163.60                   |                         |
| For >40, Deduct   | -342.20                   |                         |
| 26 56 13 00-0542 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,914.60                  | 669.74                  |
| For >10 To 20, Deduct   | -96.49                    |                         |
| For >20 To 40, Deduct   | -177.23                   |                         |
| For >40, Deduct   | -370.22                   |                         |
| 26 56 13 00-0543 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 2,989.74                  | 669.74                  |
| For >10 To 20, Deduct   | -99.50                    |                         |
| For >20 To 40, Deduct   | -182.49                   |                         |
| For >40, Deduct   | -381.49                   |                         |
| 26 56 13 00-0544 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 3,191.96                  | 711.59                  |
| For >10 To 20, Deduct   | -106.33                   |                         |
| For >20 To 40, Deduct   | -194.97                   |                         |
| For >40, Deduct   | -407.63                   |                         |
| 26 56 13 00-0545 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 3,360.92                  | 753.45                  |
| For >10 To 20, Deduct   | -111.83                   |                         |
| For >20 To 40, Deduct   | -205.13                   |                         |
| For >40, Deduct   | -428.79                   |                         |
| 26 56 13 00-0546 EA 32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 3,488.04                  | 774.38                  |
| For >10 To 20, Deduct   | -116.29                   |                         |
| For >20 To 40, Deduct   | -213.19                   |                         |
| For >40, Deduct   | -445.77                   |                         |
| 26 56 13 00-0547 EA 34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....                | 3,615.16                  | 795.31                  |
| For >10 To 20, Deduct   | -120.75                   |                         |
| For >20 To 40, Deduct   | -221.25                   |                         |
| For >40, Deduct   | -462.74                   |                         |
| <b>26 56 13 00-0548 Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small></b> |                           |                         |
| 26 56 13 00-0549 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 904.12                    | 209.30                  |
| For >10 To 20, Deduct   | -29.89                    |                         |
| For >20 To 40, Deduct   | -54.92                    |                         |
| For >40, Deduct   | -114.69                   |                         |
| 26 56 13 00-0550 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 973.44                    | 230.22                  |
| For >10 To 20, Deduct   | -32.03                    |                         |
| For >20 To 40, Deduct   | -58.93                    |                         |
| For >40, Deduct   | -122.99                   |                         |
| 26 56 13 00-0551 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 1,041.31                  | 251.15                  |
| For >10 To 20, Deduct   | -34.12                    |                         |
| For >20 To 40, Deduct   | -62.85                    |                         |
| For >40, Deduct   | -131.08                   |                         |
| 26 56 13 00-0552 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 1,065.88                  | 251.15                  |
| For >10 To 20, Deduct   | -35.10                    |                         |
| For >20 To 40, Deduct   | -64.57                    |                         |
| For >40, Deduct   | -134.77                   |                         |
| 26 56 13 00-0553 EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 1,148.19                  | 272.08                  |
| For >10 To 20, Deduct   | -37.77                    |                         |
| For >20 To 40, Deduct   | -69.49                    |                         |
| For >40, Deduct   | -145.02                   |                         |
| 26 56 13 00-0554 EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 1,218.96                  | 293.01                  |
| For >10 To 20, Deduct   | -39.97                    |                         |
| For >20 To 40, Deduct   | -73.61                    |                         |
| For >40, Deduct   | -153.54                   |                         |
| 26 56 13 00-0555 EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 1,294.06                  | 313.93                  |
| For >10 To 20, Deduct   | -42.34                    |                         |
| For >20 To 40, Deduct   | -78.03                    |                         |
| For >40, Deduct   | -162.72                   |                         |
| 26 56 13 00-0556 EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....            | 1,376.38                  | 334.87                  |
| For >10 To 20, Deduct   | -45.01                    |                         |
| For >20 To 40, Deduct   | -82.95                    |                         |
| For >40, Deduct   | -172.97                   |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 13 00-0557 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,515.11                  | 334.87                  |
| For>10 To 20, Deduct   | -50.56                    |                         |
| For>20 To 40, Deduct   | -92.66                    |                         |
| For>40, Deduct   | -193.78                   |                         |
| 26 56 13 00-0558 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,695.68                  | 355.79                  |
| For>10 To 20, Deduct   | -57.15                    |                         |
| For>20 To 40, Deduct   | -104.47                   |                         |
| For>40, Deduct   | -218.77                   |                         |
| 26 56 13 00-0559 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,876.27                  | 376.73                  |
| For>10 To 20, Deduct   | -63.75                    |                         |
| For>20 To 40, Deduct   | -116.27                   |                         |
| For>40, Deduct   | -243.77                   |                         |
| 26 56 13 00-0560 EA 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,037.07                  | 209.30                  |
| For>10 To 20, Deduct   | -35.20                    |                         |
| For>20 To 40, Deduct   | -64.22                    |                         |
| For>40, Deduct   | -134.63                   |                         |
| 26 56 13 00-0561 EA 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,113.61                  | 230.22                  |
| For>10 To 20, Deduct   | -37.64                    |                         |
| For>20 To 40, Deduct   | -68.74                    |                         |
| For>40, Deduct   | -144.02                   |                         |
| 26 56 13 00-0562 EA 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,190.15                  | 251.15                  |
| For>10 To 20, Deduct   | -40.07                    |                         |
| For>20 To 40, Deduct   | -73.26                    |                         |
| For>40, Deduct   | -153.41                   |                         |
| 26 56 13 00-0563 EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,226.28                  | 251.15                  |
| For>10 To 20, Deduct   | -41.52                    |                         |
| For>20 To 40, Deduct   | -75.79                    |                         |
| For>40, Deduct   | -158.83                   |                         |
| 26 56 13 00-0564 EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,302.81                  | 272.08                  |
| For>10 To 20, Deduct   | -43.95                    |                         |
| For>20 To 40, Deduct   | -80.31                    |                         |
| For>40, Deduct   | -168.21                   |                         |
| 26 56 13 00-0565 EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,379.36                  | 293.01                  |
| For>10 To 20, Deduct   | -46.38                    |                         |
| For>20 To 40, Deduct   | -84.83                    |                         |
| For>40, Deduct   | -177.60                   |                         |
| 26 56 13 00-0566 EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,455.91                  | 313.93                  |
| For>10 To 20, Deduct   | -48.82                    |                         |
| For>20 To 40, Deduct   | -89.36                    |                         |
| For>40, Deduct   | -186.99                   |                         |
| 26 56 13 00-0567 EA 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,565.68                  | 334.87                  |
| For>10 To 20, Deduct   | -52.58                    |                         |
| For>20 To 40, Deduct   | -96.20                    |                         |
| For>40, Deduct   | -201.37                   |                         |
| 26 56 13 00-0568 EA 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,700.07                  | 334.87                  |
| For>10 To 20, Deduct   | -57.96                    |                         |
| For>20 To 40, Deduct   | -105.61                   |                         |
| For>40, Deduct   | -221.52                   |                         |
| 26 56 13 00-0569 EA 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 1,877.76                  | 355.79                  |
| For>10 To 20, Deduct   | -64.44                    |                         |
| For>20 To 40, Deduct   | -117.21                   |                         |
| For>40, Deduct   | -246.08                   |                         |
| 26 56 13 00-0570 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... | 2,054.01                  | 376.73                  |
| For>10 To 20, Deduct   | -70.86                    |                         |
| For>20 To 40, Deduct   | -128.71                   |                         |
| For>40, Deduct   | -270.43                   |                         |
| 26 56 13 00-0571 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,154.12                  | 209.30                  |
| For>10 To 20, Deduct   | -39.89                    |                         |
| For>20 To 40, Deduct   | -72.42                    |                         |
| For>40, Deduct   | -152.19                   |                         |
| 26 56 13 00-0572 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,221.99                  | 230.22                  |
| For>10 To 20, Deduct   | -41.97                    |                         |
| For>20 To 40, Deduct   | -76.33                    |                         |
| For>40, Deduct   | -160.28                   |                         |
| 26 56 13 00-0573 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,288.42                  | 251.15                  |
| For>10 To 20, Deduct   | -44.00                    |                         |
| For>20 To 40, Deduct   | -80.14                    |                         |
| For>40, Deduct   | -168.15                   |                         |
| 26 56 13 00-0574 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,312.98                  | 251.15                  |
| For>10 To 20, Deduct   | -44.98                    |                         |
| For>20 To 40, Deduct   | -81.86                    |                         |
| For>40, Deduct   | -171.83                   |                         |
| 26 56 13 00-0575 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,379.40                  | 272.08                  |
| For>10 To 20, Deduct   | -47.01                    |                         |
| For>20 To 40, Deduct   | -85.68                    |                         |
| For>40, Deduct   | -179.70                   |                         |
| 26 56 13 00-0576 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,447.28                  | 293.01                  |
| For>10 To 20, Deduct   | -49.10                    |                         |
| For>20 To 40, Deduct   | -89.59                    |                         |
| For>40, Deduct   | -187.79                   |                         |
| 26 56 13 00-0577 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....   | 1,564.29                  | 313.93                  |
| For>10 To 20, Deduct   | -53.15                    |                         |
| For>20 To 40, Deduct   | -96.94                    |                         |
| For>40, Deduct   | -203.25                   |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Exterior Lighting | 26 56     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 13 00-0578 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....                     | 1,698.63                  | 334.87                  |
| For >10 To 20, Deduct  | -57.90                    |                         |
| For >20 To 40, Deduct  | -105.51                   |                         |
| For >40, Deduct  | -221.31                   |                         |
| 26 56 13 00-0579 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....                     | 1,782.44                  | 334.87                  |
| For >10 To 20, Deduct  | -61.25                    |                         |
| For >20 To 40, Deduct  | -111.38                   |                         |
| For >40, Deduct  | -233.88                   |                         |
| 26 56 13 00-0580 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....                     | 1,909.55                  | 355.79                  |
| For >10 To 20, Deduct  | -65.71                    |                         |
| For >20 To 40, Deduct  | -119.44                   |                         |
| For >40, Deduct  | -250.85                   |                         |
| 26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....                     | 2,036.67                  | 376.73                  |
| For >10 To 20, Deduct  | -70.17                    |                         |
| For >20 To 40, Deduct  | -127.50                   |                         |
| For >40, Deduct  | -267.83                   |                         |
| <b>26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)</b>                             |                           |                         |
| 26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles.....  | 51.23                     |                         |
| 26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....                          | 51.23                     |                         |
| 26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....   | 97.21                     |                         |
| 26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles.....  | 128.74                    |                         |
| <b>26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)</b>   |                           |                         |
| <b>26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)</b>                  |                           |                         |
| 26 56 13 00-0589 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 2,945.26                  | 711.59                  |
| 26 56 13 00-0590 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 3,105.08                  | 753.45                  |
| 26 56 13 00-0591 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 3,221.28                  | 774.38                  |
| 26 56 13 00-0592 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 4,013.19                  | 795.31                  |
| 26 56 13 00-0593 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 4,460.28                  | 837.16                  |
| 26 56 13 00-0594 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 5,518.16                  | 1,088.32                |
| 26 56 13 00-0595 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 6,609.05                  | 1,339.47                |
| 26 56 13 00-0596 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 6,434.39                  | 711.59                  |
| Note: Polished brown with acrylic coating finish.  |                           |                         |
| 26 56 13 00-0597 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....                           | 7,429.24                  | 753.45                  |
| Note: Polished brown with acrylic coating finish.  |                           |                         |
| 26 56 13 00-0598 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....                        | 770.68                    | 251.15                  |
| 26 56 13 00-0599 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....             | 3,857.36                  | 502.14                  |
| 26 56 13 00-0600 EA Pole Base Cover For All Octagon Poles.....   | 299.45                    | 102.47                  |
| 26 56 13 00-0601 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....                          | 612.97                    | 204.94                  |
| <b>26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)</b>                          |                           |                         |
| Note: Round or square.   |                           |                         |
| 26 56 13 00-0603 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 3,184.02                  | 334.87                  |
| 26 56 13 00-0604 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 3,595.98                  | 418.58                  |
| 26 56 13 00-0605 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 3,968.90                  | 502.30                  |
| 26 56 13 00-0606 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 5,527.63                  | 753.45                  |
| 26 56 13 00-0607 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 6,377.65                  | 795.31                  |
| 26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 7,296.91                  | 837.16                  |
| 26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....                                   | 8,453.32                  | 1,088.32                |
| <b>26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)</b>                    |                           |                         |
| 26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22)..... | 19,115.29                 | 1,883.63                |
| 26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24)..... | 22,740.14                 | 2,298.77                |
| 26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26)..... | 27,022.38                 | 3,105.37                |
| <b>26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177)</b>   |                           |                         |
| See CSI section 26 05 46 00-0001 for wood poles.   |                           |                         |
| <b>26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)</b>  |                           |                         |
| <b>26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615)</b>                     |                           |                         |
| Note: As manufactured by Hadco and King Luminaries or an approved equal.   |                           |                         |
| 26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....                             | 1,626.22                  | 209.30                  |
| 26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....                             | 1,721.92                  | 241.10                  |
| 26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....                             | 1,863.74                  | 251.15                  |
| 26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....                             | 2,284.61                  | 293.01                  |
| 26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....                             | 2,660.14                  | 318.13                  |
| 26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....                             | 3,053.44                  | 343.24                  |
| <b>26 56 13 00-0623 Landscape Light Poles (26 56 13 00-0001)</b>   |                           |                         |
| Note: Excludes lighting fixtures.  |                           |                         |
| <b>26 56 13 00-0624 Aluminum Landscape Light Poles (26 56 13 00-0623)</b>  |                           |                         |
| Note: Includes painted finish.   |                           |                         |

|              |                          |
|--------------|--------------------------|
| <b>26</b>    | <b>Electrical</b>        |
| <b>26 50</b> | <b>Lighting</b>          |
| <b>26 56</b> | <b>Exterior Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)  |                           |                         |
| 26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)   |                           |                         |
| 26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....   | 604.02                    | 251.15                  |
| 26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....  | 991.66                    | 334.87                  |
| 26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)   |                           |                         |
| 26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....   | 556.15                    | 251.15                  |
| 26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....  | 943.79                    | 334.87                  |
| 26 56 13 00-0632 Steel Landscape Light Poles (26 56 13 00-0623)<br>Note: Includes painted finish.   |                           |                         |
| 26 56 13 00-0633 Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)   |                           |                         |
| 26 56 13 00-0634 Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)  |                           |                         |
| 26 56 13 00-0635 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....   | 658.08                    | 251.15                  |
| 26 56 13 00-0636 Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)  |                           |                         |
| 26 56 13 00-0637 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....   | 623.19                    | 251.15                  |
| 26 56 13 00-0638 Light Pole Brackets And Arms (26 56 13 00-0001)  |                           |                         |
| 26 56 13 00-0639 Light Pole Brackets (26 56 13 00-0638)   |                           |                         |
| 26 56 13 00-0640 Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)  |                           |                         |
| 26 56 13 00-0641 Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)  |                           |                         |
| 26 56 13 00-0642 Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)<br>Note: Includes powdercoat finish.                  |                           |                         |
| 26 56 13 00-0643 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....  | 725.19                    | 50.23                   |
| For Galvanized Finish, Add  | 62.47                     |                         |
| 26 56 13 00-0644 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....                                      | 913.68                    | 50.23                   |
| For Galvanized Finish, Add  | 81.32                     |                         |
| 26 56 13 00-0645 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....                                      | 971.22                    | 50.23                   |
| For Galvanized Finish, Add  | 87.08                     |                         |
| 26 56 13 00-0646 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....  | 1,326.36                  | 50.23                   |
| For Galvanized Finish, Add  | 122.59                    |                         |
| 26 56 13 00-0647 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....                                       | 1,381.67                  | 50.23                   |
| For Galvanized Finish, Add  | 128.12                    |                         |
| 26 56 13 00-0648 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)<br>Note: Includes satin brushed or painted finish. |                           |                         |
| 26 56 13 00-0649 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....                                     | 286.77                    | 50.23                   |
| For Bronze Or Satin Anodized Finish, Add  | 18.63                     |                         |
| For Black Anodized Finish, Add  | 37.26                     |                         |
| 26 56 13 00-0650 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....                                   | 346.21                    | 50.23                   |
| For Bronze Or Satin Anodized Finish, Add  | 24.58                     |                         |
| For Black Anodized Finish, Add  | 49.15                     |                         |
| 26 56 13 00-0651 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....                                   | 362.21                    | 50.23                   |
| For Bronze Or Satin Anodized Finish, Add  | 26.18                     |                         |
| For Black Anodized Finish, Add  | 52.35                     |                         |
| 26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....                                     | 418.22                    | 50.23                   |
| For Bronze Or Satin Anodized Finish, Add  | 31.78                     |                         |
| For Black Anodized Finish, Add  | 63.55                     |                         |
| 26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....                                    | 429.65                    | 50.23                   |
| For Bronze Or Satin Anodized Finish, Add  | 32.92                     |                         |
| For Black Anodized Finish, Add  | 65.84                     |                         |
| 26 56 13 00-0654 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)   |                           |                         |
| 26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654)<br>Note: Includes powdercoat finish.                 |                           |                         |
| 26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....                                       | 779.01                    | 50.23                   |
| For Galvanized Finish, Add  | 67.86                     |                         |
| 26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....                                     | 959.56                    | 50.23                   |
| For Galvanized Finish, Add  | 85.91                     |                         |
| 26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....                                      | 1,171.61                  | 50.23                   |
| For Galvanized Finish, Add  | 107.12                    |                         |
| 26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....                                       | 1,384.65                  | 50.23                   |
| For Galvanized Finish, Add  | 128.42                    |                         |
| 26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)  |                           |                         |
| 26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660)<br>Note: Includes powdercoat finish.              |                           |                         |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Exterior Lighting | 26 56     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket .....   | 745.29                    | 83.71                   |
| 26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket .....  | 1,114.82                  | 83.71                   |
| 26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket .....   | 1,552.06                  | 83.71                   |
| 26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket .....   | 1,695.90                  | 83.71                   |
| <b>26 56 13 00-0666 Light Pole Arms (26 56 13 00-0638)</b>  |                           |                         |
| <b>26 56 13 00-0667 Wood Pole Streetlight Arms (26 56 13 00-0666)</b>   |                           |                         |
| <b>26 56 13 00-0668 Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)</b>  |                           |                         |
| 26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....  | 438.88                    | 75.35                   |
| 26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....  | 465.29                    | 83.71                   |
| 26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....  | 541.14                    | 104.65                  |
| 26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....  | 642.37                    | 83.71                   |
| 26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....  | 717.72                    | 104.65                  |
| 26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....  | 870.92                    | 125.57                  |
| <b>26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)</b>   |                           |                         |
| 26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....   | 295.42                    | 83.71                   |
| 26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....   | 361.06                    | 83.71                   |
| 26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....   | 480.92                    | 104.65                  |
| 26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....   | 627.95                    | 125.57                  |
| <b>26 56 13 00-0680 Area Light Arms (26 56 13 00-0666)</b>  |                           |                         |
| <b>26 56 13 00-0681 Steel Area Light Arms (26 56 13 00-0680)</b>  |                           |                         |
| 26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....  | 826.29                    | 83.71                   |
| 26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....  | 1,288.28                  | 92.09                   |
| 26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....  | 1,431.13                  | 100.46                  |
| 26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....   | 1,697.52                  | 108.83                  |
| 26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....  | 986.55                    | 104.65                  |
| 26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....  | 1,402.21                  | 113.01                  |
| <b>26 56 13 00-0688 Aluminum Area Light Arms (26 56 13 00-0680)</b>   |                           |                         |
| 26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....   | 353.74                    | 83.71                   |
| 26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....   | 436.76                    | 104.65                  |
| 26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....   | 522.04                    | 125.57                  |
| 26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....  | 351.45                    | 83.71                   |
| 26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....  | 491.65                    | 92.09                   |
| 26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....  | 432.19                    | 104.65                  |
| 26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....  | 599.80                    | 113.01                  |
| 26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....  | 524.33                    | 125.57                  |
| 26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....  | 727.38                    | 133.95                  |
| <b>26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)</b>  |                           |                         |
| 26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms .....  | 2,762.93                  |                         |
| <b>26 56 13 00-0700 High Mast Lighting (26 56 13 00-0001)</b>   |                           |                         |
| <b>26 56 13 00-0701 High Mast Lighting Assemblies (26 56 13 00-0700)</b>  |                           |                         |
| Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures. |                           |                         |
| 26 56 13 00-0702 EA 60' High Mast Lighting Assembly.....  | 57,414.81                 | 2,551.73                |
| 26 56 13 00-0703 EA 70' High Mast Lighting Assembly.....  | 60,642.88                 | 2,672.55                |
| 26 56 13 00-0704 EA 80' High Mast Lighting Assembly.....  | 63,918.68                 | 2,847.09                |
| 26 56 13 00-0705 EA 90' High Mast Lighting Assembly.....  | 67,240.27                 | 3,075.36                |
| 26 56 13 00-0706 EA 100' High Mast Lighting Assembly.....   | 70,589.44                 | 3,357.23                |
| 26 56 13 00-0707 EA 110' High Mast Lighting Assembly.....   | 74,900.17                 | 3,693.21                |
| 26 56 13 00-0708 EA 120' High Mast Lighting Assembly.....   | 78,394.71                 | 4,028.91                |
| 26 56 13 00-0709 EA 130' High Mast Lighting Assembly.....   | 81,627.78                 | 4,364.61                |
| 26 56 13 00-0710 EA 140' High Mast Lighting Assembly.....   | 85,122.31                 | 4,700.48                |
| 26 56 13 00-0711 EA 150' High Mast Lighting Assembly.....   | 89,356.71                 | 5,036.18                |
| <b>26 56 13 00-0712 High Mast Light Poles (26 56 13 00-0700)</b>  |                           |                         |
| 26 56 13 00-0713 EA 60' High Mast Light Poles .....   | 22,068.92                 | 1,532.52                |
| 26 56 13 00-0714 EA 70' High Mast Light Poles .....   | 25,260.70                 | 1,605.11                |
| 26 56 13 00-0715 EA 80' High Mast Light Poles .....   | 28,484.07                 | 1,709.97                |
| 26 56 13 00-0716 EA 90' High Mast Light Poles .....   | 31,737.11                 | 1,847.09                |
| 26 56 13 00-0717 EA 100' High Mast Light Poles .....  | 35,021.74                 | 2,016.47                |
| 26 56 13 00-0718 EA 110' High Mast Light Poles .....  | 38,337.99                 | 2,218.12                |
| 26 56 13 00-0719 EA 120' High Mast Light Poles .....  | 40,860.14                 | 2,419.76                |
| 26 56 13 00-0720 EA 130' High Mast Light Poles .....  | 40,497.48                 | 4,484.63                |
| 26 56 13 00-0721 EA 140' High Mast Light Poles .....  | 45,641.04                 | 2,823.06                |



|           |                                |
|-----------|--------------------------------|
| <b>26</b> | <b>26 Electrical</b>           |
|           | <b>26 50 Lighting</b>          |
|           | <b>26 56 Exterior Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 13 00-0722 EA 150' High Mast Light Poles .....   | 48,426.60                 | 3,024.71                |
| <b>26 56 13 00-0723 High Mast Lighting Accessories</b> <small>(26 56 13 00-0700)</small>   |                           |                         |
| <small>See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.</small>  |                           |                         |
| 26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting .....  | 1,018.79                  |                         |
| 26 56 13 00-0725 EA Top Latching System For High Mast Lighting .....   | 2,861.99                  |                         |
| 26 56 13 00-0726 EA Centering Springs For High Mast Lighting .....   | 2,167.31                  |                         |
| 26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting .....   | 916.78                    |                         |
| 26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting.....  | 1,718.01                  |                         |
| 26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting .....  | 18,321.06                 |                         |
| 26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting.....  | 18,442.88                 |                         |
| <b>26 56 13 00-0731 Concrete Bases</b> <small>(26 56 13 00-0001)</small>   |                           |                         |
| <b>26 56 13 00-0732 Concrete Bases, Cast In Place</b> <small>(26 56 13 00-0731)</small>  |                           |                         |
| <small>Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.</small>   |                           |                         |
| 26 56 13 00-0733 EA Cast In Place Concrete Base For Poles Minimum Charge .....   | 354.67                    |                         |
| <small>Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small> |                           |                         |
| 26 56 13 00-0734 VLF 1-1/2' Diameter Concrete Base For Poles .....   | 68.55                     |                         |
| 26 56 13 00-0735 VLF 2' Diameter Concrete Base For Poles.....  | 96.83                     |                         |
| 26 56 13 00-0736 VLF 2-1/2' Diameter Concrete Base For Poles .....   | 131.62                    |                         |
| 26 56 13 00-0737 VLF 3' Diameter Concrete Base For Poles.....  | 173.76                    |                         |
| 26 56 13 00-0738 VLF 3-1/2' Diameter Concrete Base For Poles .....   | 231.14                    |                         |
| 26 56 13 00-0739 VLF 4' Diameter Concrete Base For Poles.....  | 291.11                    |                         |
| 26 56 13 00-0740 VLF 5' Diameter Concrete Base For Poles.....  | 425.64                    |                         |
| 26 56 13 00-0741 VLF 6' Diameter Concrete Base For Poles.....  | 588.28                    |                         |
| <b>26 56 18 Incandescent Exterior Lighting</b> <small>(26 56)</small>  |                           |                         |
| <b>26 56 18 00-0001 Exterior Globe</b> <small>(26 56 18)</small>   |                           |                         |
| <b>26 56 18 00-0002 Incandescent, Exterior Globe</b> <small>(26 56 18 00-0001)</small>   |                           |                         |
| 26 56 18 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....   | 70.49                     | 28.11                   |
| 26 56 18 00-0004 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....  | 102.16                    | 28.11                   |
| 26 56 18 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....  | 80.15                     | 28.11                   |
| 26 56 18 00-0006 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....   | 105.88                    | 28.11                   |
| <b>26 56 18 00-0007 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 18)</small>  |                           |                         |
| <small>Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.</small>  |                           |                         |
| 26 56 18 00-0008 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....  | 311.66                    | 112.45                  |
| 26 56 18 00-0009 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....  | 325.77                    | 119.47                  |
| 26 56 18 00-0010 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....   | 356.82                    | 126.49                  |
| 26 56 18 00-0011 EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....   | 352.13                    | 140.55                  |
| 26 56 18 00-0012 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....  | 397.86                    | 161.63                  |
| <b>26 56 19 LED Exterior Lighting</b> <small>(26 56)</small>   |                           |                         |
| <b>26 56 19 00-0001 LED, Wall Packs</b> <small>(26 56 19)</small>  |                           |                         |
| <b>26 56 19 00-0002 Full Cutoff, LED Wall Packs</b> <small>(26 56 19 00-0001)</small>  |                           |                         |
| <b>26 56 19 00-0003 Full Cutoff, LED Wall Packs (Lithonia)</b> <small>(26 56 19 00-0002)</small>   |                           |                         |
| 26 56 19 00-0004 EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....  | 1,022.77                  | 147.60                  |
| <i>For &gt;50 To 100, Deduct</i>   | -51.14                    |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -76.71                    |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -120.47                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>   | -164.22                   |                         |
| <i>For &gt;1000, Deduct</i>  | -207.98                   |                         |
| 26 56 19 00-0005 EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....  | 1,101.75                  | 147.60                  |
| <i>For &gt;50 To 100, Deduct</i>   | -55.09                    |                         |
| <i>For &gt;100 To 250, Deduct</i>  | -82.63                    |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -130.34                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>   | -178.05                   |                         |
| <i>For &gt;1000, Deduct</i>  | -225.75                   |                         |
| 26 56 19 00-0006 Full Cutoff, LED Wall Packs (CREE® BetaLED®) <small>(26 56 19 00-0002)</small>  |                           |                         |
| 26 56 19 00-0007 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) <small>(26 56 19 00-0006)</small>  |                           |                         |
| <small>Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>   |                           |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 19 00-0008 EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... 1,101.65   | 1,101.65                  | 143.39                  |
| Note: Includes 350mA or 525mA driver.  |                           |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Bird Spikes, Add   | 56.85                     |                         |
| For Fuse, Add  | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For 480 Volt, Add  | 101.23                    |                         |
| For Multi-Level, Add   | 146.21                    |                         |
| For >50 To 100, Deduct   | -55.08                    |                         |
| For >100 To 250, Deduct  | -82.62                    |                         |
| For >250 To 500, Deduct  | -130.54                   |                         |
| For >500 To 1000, Deduct   | -178.45                   |                         |
| For >1000, Deduct  | -226.36                   |                         |
| 26 56 19 00-0009 EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... 1,413.77   | 1,413.77                  | 151.82                  |
| Note: Includes 350mA or 525mA driver.  |                           |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Bird Spikes, Add   | 57.69                     |                         |
| For Fuse, Add  | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For 480 Volt, Add  | 101.23                    |                         |
| For Multi-Level, Add   | 146.21                    |                         |
| For >50 To 100, Deduct   | -70.69                    |                         |
| For >100 To 250, Deduct  | -106.03                   |                         |
| For >250 To 500, Deduct  | -169.13                   |                         |
| For >500 To 1000, Deduct   | -232.23                   |                         |
| For >1000, Deduct  | -295.33                   |                         |
| 26 56 19 00-0010 EA 60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... 1,583.15   | 1,583.15                  | 160.24                  |
| Note: Includes 350mA or 525mA driver.  |                           |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Bird Spikes, Add   | 58.54                     |                         |
| For Fuse, Add  | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For 480 Volt, Add  | 101.23                    |                         |
| For Multi-Level, Add   | 146.21                    |                         |
| For >50 To 100, Deduct   | -79.16                    |                         |
| For >100 To 250, Deduct  | -118.74                   |                         |
| For >250 To 500, Deduct  | -189.88                   |                         |
| For >500 To 1000, Deduct   | -261.03                   |                         |
| For >1000, Deduct  | -332.17                   |                         |
| 26 56 19 00-0011 EA 80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... 2,038.02   | 2,038.02                  | 168.68                  |
| Note: Includes 350mA or 525mA driver.  |                           |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Bird Spikes, Add   | 59.38                     |                         |
| For Fuse, Add  | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For 480 Volt, Add  | 101.23                    |                         |
| For Multi-Level, Add   | 146.21                    |                         |
| For >50 To 100, Deduct   | -101.90                   |                         |
| For >100 To 250, Deduct  | -152.85                   |                         |
| For >250 To 500, Deduct  | -246.32                   |                         |
| For >500 To 1000, Deduct   | -339.79                   |                         |
| For >1000, Deduct  | -433.25                   |                         |
| 26 56 19 00-0012 EA 100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... 2,350.14 | 2,350.14                  | 177.11                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Bird Spikes, Add   | 60.22                     |                         |
| For Fuse, Add  | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For 480 Volt, Add  | 101.23                    |                         |
| For Multi-Level, Add   | 146.21                    |                         |
| For >50 To 100, Deduct   | -117.51                   |                         |
| For >100 To 250, Deduct  | -176.26                   |                         |
| For >250 To 500, Deduct  | -284.91                   |                         |
| For >500 To 1000, Deduct   | -393.56                   |                         |
| For >1000, Deduct  | -502.21                   |                         |
| 26 56 19 00-0013 EA 120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... 2,662.27 | 2,662.27                  | 185.55                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Bird Spikes, Add   | 61.07                     |                         |
| For Fuse, Add  | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For 480 Volt, Add  | 101.23                    |                         |
| For Multi-Level, Add   | 146.21                    |                         |
| For >50 To 100, Deduct   | -133.11                   |                         |
| For >100 To 250, Deduct  | -199.67                   |                         |
| For >250 To 500, Deduct  | -323.51                   |                         |
| For >500 To 1000, Deduct   | -447.34                   |                         |
| For >1000, Deduct  | -571.18                   |                         |

26 56 19 00-0014 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56 19 00-0006)

Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 19 00-0015 EA 25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) .....   | 663.21                    | 143.39                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For Multi-Level, Add   | 67.48                     |                         |
| For >50 To 100, Deduct   | -33.16                    |                         |
| For >100 To 250, Deduct  | -49.74                    |                         |
| For >250 To 500, Deduct  | -75.73                    |                         |
| For >500 To 1000, Deduct   | -101.72                   |                         |
| For >1000, Deduct  | -127.72                   |                         |
| 26 56 19 00-0016 EA 42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) .....   | 767.91                    | 151.82                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For Multi-Level, Add   | 67.48                     |                         |
| For >50 To 100, Deduct   | -38.40                    |                         |
| For >100 To 250, Deduct  | -57.59                    |                         |
| For >250 To 500, Deduct  | -88.40                    |                         |
| For >500 To 1000, Deduct   | -119.20                   |                         |
| For >1000, Deduct  | -150.01                   |                         |
| <b>26 56 19 00-0017 Full Cutoff, LED Wall Packs (McGraw-Edison) (26 56 19 00-0002)</b>   |                           |                         |
| 26 56 19 00-0018 EA One 7 LED Light Bar, 27 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....   | 1,341.09                  | 143.39                  |
| 26 56 19 00-0019 EA Two 7 LED Light Bars, 54 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....  | 1,657.32                  | 151.82                  |
| 26 56 19 00-0020 EA One 21 LED Light Bar, 27 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....   | 1,356.50                  | 143.39                  |
| 26 56 19 00-0021 EA Two 21 LED Light Bars, 51 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....  | 1,798.19                  | 151.82                  |
| <b>26 56 19 00-0022 Open Face LED Wall Pack (26 56 19 00-0001)</b>   |                           |                         |
| Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass                                       |                           |                         |
| 26 56 19 00-0023 EA 3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....  | 842.54                    | 153.82                  |
| For >50 To 100, Deduct   | -42.13                    |                         |
| For >100 To 250, Deduct  | -63.19                    |                         |
| For >250 To 500, Deduct  | -93.78                    |                         |
| For >500 To 1000, Deduct   | -124.37                   |                         |
| For >1000, Deduct  | -154.96                   |                         |
| 26 56 19 00-0024 EA 5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....  | 898.92                    | 153.82                  |
| For >50 To 100, Deduct   | -44.95                    |                         |
| For >100 To 250, Deduct  | -67.42                    |                         |
| For >250 To 500, Deduct  | -100.83                   |                         |
| For >500 To 1000, Deduct   | -134.24                   |                         |
| For >1000, Deduct  | -167.65                   |                         |
| 26 56 19 00-0025 EA 7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....  | 928.45                    | 153.82                  |
| For >50 To 100, Deduct   | -46.42                    |                         |
| For >100 To 250, Deduct  | -69.63                    |                         |
| For >250 To 500, Deduct  | -104.52                   |                         |
| For >500 To 1000, Deduct   | -139.41                   |                         |
| For >1000, Deduct  | -174.29                   |                         |
| 26 56 19 00-0026 EA 11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....   | 952.39                    | 153.82                  |
| For >50 To 100, Deduct   | -47.62                    |                         |
| For >100 To 250, Deduct  | -71.43                    |                         |
| For >250 To 500, Deduct  | -107.51                   |                         |
| For >500 To 1000, Deduct   | -143.60                   |                         |
| For >1000, Deduct  | -179.68                   |                         |
| 26 56 19 00-0027 EA 16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....   | 1,132.00                  | 153.82                  |
| For >50 To 100, Deduct   | -56.60                    |                         |
| For >100 To 250, Deduct  | -84.90                    |                         |
| For >250 To 500, Deduct  | -129.96                   |                         |
| For >500 To 1000, Deduct   | -175.03                   |                         |
| For >1000, Deduct  | -220.09                   |                         |
| <b>26 56 19 00-0028 Wall Pack Accessories (26 56 19 00-0001)</b>   |                           |                         |
| 26 56 19 00-0029 EA Photocell For Wall Pack.....   | 154.48                    | 38.46                   |
| 26 56 19 00-0030 EA Wire Guard For Mini And Small Wall Pack .....  | 170.70                    | 38.46                   |
| 26 56 19 00-0031 EA Wire Guard For Medium And Large Wall Pack .....  | 238.52                    | 38.46                   |
| 26 56 19 00-0032 EA Clear Polycarbonate Vandal Guard For Wall Packs .....  | 336.38                    | 38.46                   |
| 26 56 19 00-0033 EA Full Cutoff Visor For Wall Pack .....  | 166.28                    | 38.46                   |
| <b>26 56 19 00-0034 LED, Roadway Lighting (26 56 19)</b>   |                           |                         |
| <b>26 56 19 00-0035 LED Roadway Lighting (Philips Lumec) (26 56 19 00-0034)</b>  |                           |                         |
| <b>26 56 19 00-0036 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0035)</b>   |                           |                         |
| Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0037 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....  | 1,680.31                  | 202.85                  |
| For >50 To 100, Deduct   | -84.02                    |                         |
| For >100 To 250, Deduct  | -126.02                   |                         |
| For >250 To 500, Deduct  | -199.90                   |                         |
| For >500 To 1000, Deduct   | -273.77                   |                         |
| For >1000, Deduct  | -347.64                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                                       | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 26 56 19 00-0038 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 2,591.46<br>-129.57<br>-194.36<br>-313.52<br>-432.67<br>-551.83 | 208.32                  |
| <b>26 56 19 00-0039 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series)</b> <small>(26 56 19 00-0035)</small><br>Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.   |   |                         |
| 26 56 19 00-0040 EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 1,237.82<br>-61.89<br>-92.84<br>-144.59<br>-196.33<br>-248.08   | 202.85                  |
| 26 56 19 00-0041 EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 1,237.82<br>-61.89<br>-92.84<br>-144.59<br>-196.33<br>-248.08   | 202.85                  |
| 26 56 19 00-0042 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>  | 1,237.82<br>-61.89<br>-92.84<br>-144.59<br>-196.33<br>-248.08   | 202.85                  |
| <b>26 56 19 00-0043 LED Roadway Lighting (Lithonia)</b> <small>(26 56 19 00-0034)</small>   |   |                         |
| <b>26 56 19 00-0044 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series)</b> <small>(26 56 19 00-0043)</small><br>Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.  |   |                         |
| 26 56 19 00-0045 EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>  | 2,410.68<br>-120.53<br>-180.80<br>-291.74<br>-402.68<br>-513.62 | 191.88                  |
| 26 56 19 00-0046 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 3,950.72<br>-197.54<br>-296.30<br>-483.97<br>-671.64<br>-859.31 | 197.36                  |
| <b>26 56 19 00-0047 LED Roadway Lighting (CREE® BetaLED®)</b> <small>(26 56 19 00-0034)</small>   |   |                         |
| <b>26 56 19 00-0048 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY)</b> <small>(26 56 19 00-0047)</small><br>Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors. |   |                         |
| 26 56 19 00-0049 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 1,025.10<br>-51.26<br>-76.88<br>-118.82<br>-160.75<br>-202.69   | 186.39                  |
| 26 56 19 00-0050 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 1,146.68<br>-57.33<br>-86.00<br>-133.74<br>-181.48<br>-229.22   | 191.88                  |
| 26 56 19 00-0051 EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....<br><i>For &gt;50 To 100, Deduct</i><br><i>For &gt;100 To 250, Deduct</i><br><i>For &gt;250 To 500, Deduct</i><br><i>For &gt;500 To 1000, Deduct</i><br><i>For &gt;1000, Deduct</i>   | 1,293.07<br>-64.65<br>-96.98<br>-151.77<br>-206.55<br>-261.34   | 197.36                  |



| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 26 56 19 00-0052 | EA  | 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 1,416.56                  | 202.85                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -70.83                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -106.24                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -166.93                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -227.61                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -288.30                   |                         |
| 26 56 19 00-0053 | EA  | 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 1,540.05                  | 208.32                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -77.00                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -115.50                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -182.09                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -248.68                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -315.26                   |                         |
| 26 56 19 00-0054 | EA  | 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 1,831.41                  | 213.81                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -91.57                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -137.36                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -218.24                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -299.12                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -380.00                   |                         |
| 26 56 19 00-0055 | EA  | 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 1,954.90                  | 219.29                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -97.75                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -146.62                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -233.40                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -320.18                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -406.96                   |                         |
| 26 56 19 00-0056 | EA  | 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 2,076.50                  | 224.77                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -103.83                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -155.74                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -248.32                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -340.91                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -433.50                   |                         |
| 26 56 19 00-0057 | EA  | 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 2,312.52                  | 230.25                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -115.63                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -173.44                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -277.55                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -381.67                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -485.78                   |                         |
| 26 56 19 00-0058 | EA  | 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 2,436.01                  | 235.74                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -121.80                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -182.70                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -292.71                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -402.73                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -512.74                   |                         |
| 26 56 19 00-0059 | EA  | 120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....   | 2,559.52                  | 241.21                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -127.98                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -191.96                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -307.88                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -423.79                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -539.71                   |                         |
| 26 56 19 00-0060 |     | <b>Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG)</b> <small>(26 56 19 00-0047)</small><br>Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0061 | EA  | 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 1,989.24                  | 197.36                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>  | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -99.46                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -149.19                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -238.79                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -328.38                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -417.98                   |                         |
| 26 56 19 00-0062 | EA  | 60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 2,291.54                  | 208.32                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>  | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -114.58                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -171.87                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -276.03                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -380.19                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -484.35                   |                         |
| 26 56 19 00-0063 | EA  | 80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 2,593.86                  | 219.29                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>  | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>  | -129.69                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>   | -194.54                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>   | -313.27                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>  | -432.00                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>   | -550.73                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 19 00-0064 EA 100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 2,896.16                  | 230.25                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -144.81                   |                         |
| For >100 To 250, Deduct   | -217.21                   |                         |
| For >250 To 500, Deduct   | -350.51                   |                         |
| For >500 To 1000, Deduct  | -483.80                   |                         |
| For >1000, Deduct   | -617.10                   |                         |
| 26 56 19 00-0065 EA 120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 3,793.56                  | 241.21                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -189.68                   |                         |
| For >100 To 250, Deduct   | -284.52                   |                         |
| For >250 To 500, Deduct   | -462.13                   |                         |
| For >500 To 1000, Deduct  | -639.75                   |                         |
| For >1000, Deduct   | -817.37                   |                         |
| 26 56 19 00-0066 EA 140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 4,095.86                  | 252.18                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -204.79                   |                         |
| For >100 To 250, Deduct   | -307.19                   |                         |
| For >250 To 500, Deduct   | -499.37                   |                         |
| For >500 To 1000, Deduct  | -691.56                   |                         |
| For >1000, Deduct   | -883.74                   |                         |
| 26 56 19 00-0067 EA 160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....   | 4,398.16                  | 263.15                  |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -219.91                   |                         |
| For >100 To 250, Deduct   | -329.86                   |                         |
| For >250 To 500, Deduct   | -536.61                   |                         |
| For >500 To 1000, Deduct  | -743.36                   |                         |
| For >1000, Deduct   | -950.11                   |                         |
| <b>26 56 19 00-0068 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP)</b> <small>(26 56 19 00-0047)</small>                                 |                           |                         |
| Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0069 EA 4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....                                 | 864.76                    | 197.36                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                     |                         |
| For Backlight Control Shield, Add   | 41.01                     |                         |
| For Field Adjustable Output, Add  | 33.75                     |                         |
| For Bird Spikes, Add  | 62.25                     |                         |
| For Field Adjustable Output And Utility Label, Add  | 44.99                     |                         |
| For Fuse, Add   | 67.48                     |                         |
| For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 67.48                     |                         |
| For 480 Volt, Add   | 101.23                    |                         |
| For Multi-Level, Add  | 146.21                    |                         |
| For >50 To 100, Deduct  | -43.24                    |                         |
| For >100 To 250, Deduct   | -64.86                    |                         |
| For >250 To 500, Deduct   | -98.23                    |                         |
| For >500 To 1000, Deduct  | -131.60                   |                         |
| For >1000, Deduct   | -164.97                   |                         |
| 26 56 19 00-0070 EA 5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....                                     | 864.76                    | 197.36                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                     |                         |
| For Backlight Control Shield, Add   | 41.01                     |                         |
| For Field Adjustable Output, Add  | 33.75                     |                         |
| For Bird Spikes, Add  | 62.25                     |                         |
| For Field Adjustable Output And Utility Label, Add  | 44.99                     |                         |
| For Fuse, Add   | 67.48                     |                         |
| For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 67.48                     |                         |
| For 480 Volt, Add   | 101.23                    |                         |
| For Multi-Level, Add  | 146.21                    |                         |
| For >50 To 100, Deduct  | -43.24                    |                         |
| For >100 To 250, Deduct   | -64.86                    |                         |
| For >250 To 500, Deduct   | -98.23                    |                         |
| For >500 To 1000, Deduct  | -131.60                   |                         |
| For >1000, Deduct   | -164.97                   |                         |
| 26 56 19 00-0071 EA 8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....                                 | 949.79                    | 197.36                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                     |                         |
| For Backlight Control Shield, Add   | 41.01                     |                         |
| For Field Adjustable Output, Add  | 33.75                     |                         |
| For Bird Spikes, Add  | 62.25                     |                         |
| For Field Adjustable Output And Utility Label, Add  | 44.99                     |                         |
| For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 67.48                     |                         |
| For 480 Volt, Add   | 101.23                    |                         |
| For >50 To 100, Deduct  | -47.49                    |                         |
| For >100 To 250, Deduct   | -71.23                    |                         |
| For >250 To 500, Deduct   | -108.86                   |                         |
| For >500 To 1000, Deduct  | -146.48                   |                         |
| For >1000, Deduct   | -184.10                   |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 56 19 00-0072 | EA  |     | 8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....      | 949.79                 | 197.36               |
|                  |     |     | <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 22.49                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>   | 41.01                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Add</i>  | 33.75                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>  | 62.25                  |                      |
|                  |     |     | <i>For Field Adjustable Output And Utility Label, Add</i>  | 44.99                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>                  | 67.48                  |                      |
|                  |     |     | <i>For 480 Volt, Add</i>   | 101.23                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -47.49                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -71.23                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -108.86                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -146.48                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -184.10                |                      |
| 26 56 19 00-0073 | EA  |     | 9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....  | 1,100.95               | 197.36               |
|                  |     |     | <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 22.49                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Add</i>  | 33.75                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>   | 57.52                  |                      |
|                  |     |     | <i>For Field Adjustable Output And Utility Label, Add</i>  | 44.99                  |                      |
|                  |     |     | <i>For Fuse, Add</i>   | 67.48                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>                  | 67.48                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>  | 100.06                 |                      |
|                  |     |     | <i>For 480 Volt, Add</i>   | 101.23                 |                      |
|                  |     |     | <i>For Multi-Level, Add</i>  | 146.21                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -55.05                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -82.57                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -127.75                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -172.93                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -218.11                |                      |
| 26 56 19 00-0074 | EA  |     | 10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....     | 1,100.95               | 197.36               |
|                  |     |     | <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 22.49                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Add</i>  | 33.75                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>   | 57.52                  |                      |
|                  |     |     | <i>For Field Adjustable Output And Utility Label, Add</i>  | 44.99                  |                      |
|                  |     |     | <i>For Fuse, Add</i>   | 67.48                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>                  | 67.48                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>  | 100.06                 |                      |
|                  |     |     | <i>For 480 Volt, Add</i>   | 101.23                 |                      |
|                  |     |     | <i>For Multi-Level, Add</i>  | 146.21                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -55.05                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -82.57                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -127.75                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -172.93                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -218.11                |                      |
| 26 56 19 00-0075 | EA  |     | 13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)..... | 1,242.68               | 197.36               |
|                  |     |     | <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 22.49                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Add</i>  | 33.75                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>   | 57.52                  |                      |
|                  |     |     | <i>For Field Adjustable Output And Utility Label, Add</i>  | 44.99                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>                  | 67.48                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>  | 100.06                 |                      |
|                  |     |     | <i>For 480 Volt, Add</i>   | 101.23                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -62.13                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -93.20                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -145.47                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -197.73                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -250.00                |                      |
| 26 56 19 00-0076 | EA  |     | 14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....     | 1,242.68               | 197.36               |
|                  |     |     | <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 22.49                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Add</i>  | 33.75                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>   | 57.52                  |                      |
|                  |     |     | <i>For Field Adjustable Output And Utility Label, Add</i>  | 44.99                  |                      |
|                  |     |     | <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>                  | 67.48                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>  | 100.06                 |                      |
|                  |     |     | <i>For 480 Volt, Add</i>   | 101.23                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -62.13                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -93.20                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -145.47                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -197.73                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -250.00                |                      |
| 26 56 19 00-0077 | EA  |     | 2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....  | 713.59                 | 197.36               |
|                  |     |     | <i>For Utility Label, Add</i>  | 11.24                  |                      |
|                  |     |     | <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 22.49                  |                      |
|                  |     |     | <i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>   | 33.75                  |                      |
|                  |     |     | <i>For 0 To 10 Volt Dimming, Add</i>   | 67.48                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -35.68                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -53.52                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -79.33                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -105.14                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -130.95                |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 19 00-0078 EA 2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....  | 713.59                    | 197.36                  |
| For Utility Label, Add   | 11.24                     |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 33.75                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For >50 To 100, Deduct   | -35.68                    |                         |
| For >100 To 250, Deduct  | -53.52                    |                         |
| For >250 To 500, Deduct  | -79.33                    |                         |
| For >500 To 1000, Deduct   | -105.14                   |                         |
| For >1000, Deduct  | -130.95                   |                         |
| 26 56 19 00-0079 EA 3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....   | 749.02                    | 197.36                  |
| For Utility Label, Add   | 11.24                     |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 33.75                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For >50 To 100, Deduct   | -37.45                    |                         |
| For >100 To 250, Deduct  | -56.18                    |                         |
| For >250 To 500, Deduct  | -83.76                    |                         |
| For >500 To 1000, Deduct   | -111.34                   |                         |
| For >1000, Deduct  | -138.93                   |                         |
| 26 56 19 00-0080 EA 4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....   | 749.02                    | 197.36                  |
| For Utility Label, Add   | 11.24                     |                         |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 33.75                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For >50 To 100, Deduct   | -37.45                    |                         |
| For >100 To 250, Deduct  | -56.18                    |                         |
| For >250 To 500, Deduct  | -83.76                    |                         |
| For >500 To 1000, Deduct   | -111.34                   |                         |
| For >1000, Deduct  | -138.93                   |                         |
| 26 56 19 00-0081 EA 4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....   | 760.83                    | 197.36                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Field Adjustable Output, Add   | 33.75                     |                         |
| For Field Adjustable Output And Utility Label, Add   | 44.99                     |                         |
| For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For >50 To 100, Deduct   | -38.04                    |                         |
| For >100 To 250, Deduct  | -57.06                    |                         |
| For >250 To 500, Deduct  | -85.24                    |                         |
| For >500 To 1000, Deduct   | -113.41                   |                         |
| For >1000, Deduct  | -141.58                   |                         |
| 26 56 19 00-0082 EA 4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....   | 760.83                    | 197.36                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add  | 22.49                     |                         |
| For Field Adjustable Output, Add   | 33.75                     |                         |
| For Field Adjustable Output And Utility Label, Add   | 44.99                     |                         |
| For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add  | 67.48                     |                         |
| For >50 To 100, Deduct   | -38.04                    |                         |
| For >100 To 250, Deduct  | -57.06                    |                         |
| For >250 To 500, Deduct  | -85.24                    |                         |
| For >500 To 1000, Deduct   | -113.41                   |                         |
| For >1000, Deduct  | -141.58                   |                         |
| <b>26 56 19 00-0083 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)</b>  |                           |                         |
| <small>(26 56 19 00-0047)</small>  |                           |                         |
| Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors. |                           |                         |
| 26 56 19 00-0084 EA 3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....   | 737.22                    | 197.36                  |
| For Field Adjustable Output, Add   | 33.75                     |                         |
| For Backlight Control Shield, Add  | 75.98                     |                         |
| For Bird Spikes, Add   | 100.72                    |                         |
| For >50 To 100, Deduct   | -36.86                    |                         |
| For >100 To 250, Deduct  | -55.29                    |                         |
| For >250 To 500, Deduct  | -82.28                    |                         |
| For >500 To 1000, Deduct   | -109.28                   |                         |
| For >1000, Deduct  | -136.27                   |                         |
| 26 56 19 00-0085 EA 3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....   | 737.22                    | 197.36                  |
| For Field Adjustable Output, Add   | 33.75                     |                         |
| For Backlight Control Shield, Add  | 75.98                     |                         |
| For Bird Spikes, Add   | 100.72                    |                         |
| For >50 To 100, Deduct   | -36.86                    |                         |
| For >100 To 250, Deduct  | -55.29                    |                         |
| For >250 To 500, Deduct  | -82.28                    |                         |
| For >500 To 1000, Deduct   | -109.28                   |                         |
| For >1000, Deduct  | -136.27                   |                         |



**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 26 56 19 00-0086 | EA  |     | 5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....  | 760.83                 | 197.36               |
|                  |     |     | <i>For Field Adjustable Output, Add</i>   | 33.75                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>  | 75.98                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>   | 100.72                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -38.04                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -57.06                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -85.24                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -113.41                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -141.58                |                      |
| 26 56 19 00-0087 | EA  |     | 5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....  | 760.83                 | 197.36               |
|                  |     |     | <i>For Field Adjustable Output, Add</i>   | 33.75                  |                      |
|                  |     |     | <i>For Backlight Control Shield, Add</i>  | 75.98                  |                      |
|                  |     |     | <i>For Bird Spikes, Add</i>   | 100.72                 |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -38.04                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -57.06                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -85.24                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -113.41                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -141.58                |                      |
| 26 56 19 00-0088 |     |     | <b>LED Roadway Lighting (Cooper Lighting)</b> <small>(26 56 19 00-0034)</small>   |                        |                      |
| 26 56 19 00-0089 |     |     | <b>Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™)</b> <small>(26 56 19 00-0088)</small>  |                        |                      |
|                  |     |     | Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.  |                        |                      |
| 26 56 19 00-0090 | EA  |     | 1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....   | 1,091.74               | 197.36               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -54.59                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -81.88                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -126.60                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -171.32                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -216.04                |                      |
| 26 56 19 00-0091 | EA  |     | 2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....   | 1,465.62               | 219.29               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -73.28                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -109.92                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -172.24                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -234.55                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -296.87                |                      |
| 26 56 19 00-0092 | EA  |     | 3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....   | 1,577.07               | 252.18               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -78.85                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -118.28                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -184.52                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -250.77                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -317.01                |                      |
| 26 56 19 00-0093 | EA  |     | 4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....   | 2,316.87               | 274.12               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -115.84                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -173.77                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -275.90                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -378.04                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -480.18                |                      |
| 26 56 19 00-0094 | EA  |     | 6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....   | 3,024.79               | 312.07               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -151.24                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -226.86                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -362.50                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -498.13                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -633.77                |                      |
| 26 56 19 00-0095 |     |     | <b>LED Roadway Lighting (PlanLED)</b> <small>(26 56 19 00-0034)</small>   |                        |                      |
| 26 56 19 00-0096 |     |     | <b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA)</b> <small>(26 56 19 00-0095)</small>   |                        |                      |
|                  |     |     | Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors. |                        |                      |
| 26 56 19 00-0097 | EA  |     | 8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W) .....  | 1,298.84               | 191.88               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -64.94                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -97.41                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -152.76                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -208.11                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -263.46                |                      |
| 26 56 19 00-0098 | EA  |     | 11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W) .....   | 1,408.50               | 193.98               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>  | -70.43                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>   | -105.64                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>   | -166.36                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>  | -227.09                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>   | -287.81                |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 19 00-0099 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W) .....   | 1,495.36                  | 197.36                  |
| For >50 To 100, Deduct  | -74.77                    |                         |
| For >100 To 250, Deduct   | -112.15                   |                         |
| For >250 To 500, Deduct   | -177.05                   |                         |
| For >500 To 1000, Deduct  | -241.95                   |                         |
| For >1000, Deduct   | -306.85                   |                         |
| <b>26 56 19 00-0100 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0095)</b>   |                           |                         |
| Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0101 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060) .....   | 874.20                    | 187.24                  |
| For >50 To 100, Deduct  | -43.71                    |                         |
| For >100 To 250, Deduct   | -65.57                    |                         |
| For >250 To 500, Deduct   | -99.91                    |                         |
| For >500 To 1000, Deduct  | -134.26                   |                         |
| For >1000, Deduct   | -168.61                   |                         |
| 26 56 19 00-0102 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080) .....  | 933.65                    | 190.62                  |
| For >50 To 100, Deduct  | -46.68                    |                         |
| For >100 To 250, Deduct   | -70.02                    |                         |
| For >250 To 500, Deduct   | -107.18                   |                         |
| For >500 To 1000, Deduct  | -144.33                   |                         |
| For >1000, Deduct   | -181.48                   |                         |
| 26 56 19 00-0103 EA 12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100) .....   | 1,026.86                  | 193.98                  |
| For >50 To 100, Deduct  | -51.34                    |                         |
| For >100 To 250, Deduct   | -77.01                    |                         |
| For >250 To 500, Deduct   | -118.66                   |                         |
| For >500 To 1000, Deduct  | -160.30                   |                         |
| For >1000, Deduct   | -201.95                   |                         |
| <b>26 56 19 00-0104 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0095)</b>   |                           |                         |
| Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.         |                           |                         |
| 26 56 19 00-0105 EA 13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100) .....  | 1,088.00                  | 193.98                  |
| For 0 To 10 Volt Dimming, Add   | 91.12                     |                         |
| For 480 Volt, Add   | 91.12                     |                         |
| For >50 To 100, Deduct  | -54.40                    |                         |
| For >100 To 250, Deduct   | -81.60                    |                         |
| For >250 To 500, Deduct   | -126.30                   |                         |
| For >500 To 1000, Deduct  | -171.00                   |                         |
| For >1000, Deduct   | -215.70                   |                         |
| 26 56 19 00-0106 EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130) .....  | 1,201.02                  | 195.68                  |
| For 0 To 10 Volt Dimming, Add   | 91.12                     |                         |
| For 480 Volt, Add   | 27.52                     |                         |
| For >50 To 100, Deduct  | -60.05                    |                         |
| For >100 To 250, Deduct   | -90.08                    |                         |
| For >250 To 500, Deduct   | -140.34                   |                         |
| For >500 To 1000, Deduct  | -190.61                   |                         |
| For >1000, Deduct   | -240.88                   |                         |
| 26 56 19 00-0107 EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150) .....  | 1,288.73                  | 197.36                  |
| For 0 To 10 Volt Dimming, Add   | 91.12                     |                         |
| For 480 Volt, Add   | 113.84                    |                         |
| For >50 To 100, Deduct  | -64.44                    |                         |
| For >100 To 250, Deduct   | -96.65                    |                         |
| For >250 To 500, Deduct   | -151.22                   |                         |
| For >500 To 1000, Deduct  | -205.79                   |                         |
| For >1000, Deduct   | -260.36                   |                         |
| <b>26 56 19 00-0108 LED Roadway Lighting (General Electric) (26 56 19 00-0034)</b>  |                           |                         |
| <b>26 56 19 00-0109 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0108)</b>  |                           |                         |
| Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.                                    |                           |                         |
| 26 56 19 00-0110 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY) .....  | 680.74                    | 186.39                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For >50 To 100, Deduct  | -34.04                    |                         |
| For >100 To 250, Deduct   | -51.06                    |                         |
| For >250 To 500, Deduct   | -75.77                    |                         |
| For >500 To 1000, Deduct  | -100.49                   |                         |
| For >1000, Deduct   | -125.21                   |                         |
| 26 56 19 00-0111 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY) .....  | 685.80                    | 188.92                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For >50 To 100, Deduct  | -34.29                    |                         |
| For >100 To 250, Deduct   | -51.44                    |                         |
| For >250 To 500, Deduct   | -76.28                    |                         |
| For >500 To 1000, Deduct  | -101.12                   |                         |
| For >1000, Deduct   | -125.97                   |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 56 19 00-0112 | EA  |     | 4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY).....  | 713.01                 | 191.88               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -35.65                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -53.48                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -79.53                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -105.59                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -131.65                |                      |
| 26 56 19 00-0113 | EA  |     | 5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY).....  | 740.48                 | 193.98               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -37.02                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -55.54                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -82.86                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -110.19                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -137.51                |                      |
| 26 56 19 00-0114 | EA  |     | 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY).....  | 812.82                 | 198.21               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -40.64                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -60.96                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -91.69                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -122.42                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -153.15                |                      |
| 26 56 19 00-0115 | EA  |     | 8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....  | 851.06                 | 199.89               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -42.55                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -63.83                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -96.39                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -128.95                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -161.50                |                      |
| 26 56 19 00-0116 | EA  |     | 9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....  | 922.81                 | 202.85               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -46.14                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -69.21                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -105.21                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -141.21                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -177.21                |                      |
| 26 56 19 00-0117 | EA  |     | 13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY)..... | 1,075.15               | 208.32               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -53.76                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -80.64                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -123.98                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -167.32                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -210.66                |                      |
| 26 56 19 00-0118 | EA  |     | 19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY)..... | 1,252.04               | 219.29               |
|                  |     |     | <i>For LightGrid™ Wireless Outdoor Controller, Add</i>   | 20.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -62.60                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -93.90                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -145.54                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -197.18                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -248.82                |                      |

26 56 19 00-0119 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0034)

26 56 19 00-0120 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0119)

Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 26 56 19 00-0121 | EA |  | 4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70)..... | 1,260.89 | 191.88 |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -63.04   |        |
|                  |    |  | <i>For &gt;100 To 250, Deduct</i>   | -94.57   |        |
|                  |    |  | <i>For &gt;250 To 500, Deduct</i>   | -148.02  |        |
|                  |    |  | <i>For &gt;500 To 1000, Deduct</i>  | -201.47  |        |
|                  |    |  | <i>For &gt;1000, Deduct</i>   | -254.92  |        |
| 26 56 19 00-0122 | EA |  | 6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70)..... | 1,553.14 | 197.36 |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -77.66   |        |
|                  |    |  | <i>For &gt;100 To 250, Deduct</i>   | -116.49  |        |
|                  |    |  | <i>For &gt;250 To 500, Deduct</i>   | -184.27  |        |
|                  |    |  | <i>For &gt;500 To 1000, Deduct</i>  | -252.06  |        |
|                  |    |  | <i>For &gt;1000, Deduct</i>   | -319.85  |        |
| 26 56 19 00-0123 | EA |  | 9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70)..... | 2,143.46 | 202.85 |
|                  |    |  | <i>For &gt;50 To 100, Deduct</i>  | -107.17  |        |
|                  |    |  | <i>For &gt;100 To 250, Deduct</i>   | -160.76  |        |
|                  |    |  | <i>For &gt;250 To 500, Deduct</i>   | -257.79  |        |
|                  |    |  | <i>For &gt;500 To 1000, Deduct</i>  | -354.82  |        |
|                  |    |  | <i>For &gt;1000, Deduct</i>   | -451.85  |        |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 19 00-0124 EA 13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....  | 2,738.69                  | 210.85                  |
| For >50 To 100, Deduct  | -136.93                   |                         |
| For >100 To 250, Deduct   | -205.40                   |                         |
| For >250 To 500, Deduct   | -331.79                   |                         |
| For >500 To 1000, Deduct  | -458.19                   |                         |
| For >1000, Deduct   | -584.58                   |                         |
| 26 56 19 00-0125 EA 17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....  | 3,319.81                  | 216.76                  |
| For >50 To 100, Deduct  | -165.99                   |                         |
| For >100 To 250, Deduct   | -248.99                   |                         |
| For >250 To 500, Deduct   | -404.14                   |                         |
| For >500 To 1000, Deduct  | -559.29                   |                         |
| For >1000, Deduct   | -714.44                   |                         |
| <b>26 56 19 00-0126 LED Roadway Lighting (Leotek) (26 56 19 00-0034)</b>  |                           |                         |
| <b>26 56 19 00-0127 Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0126)</b>  |                           |                         |
| Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0128 EA Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....  | 696.93                    | 191.88                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add  | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                     |                         |
| For >50 To 100, Deduct  | -34.85                    |                         |
| For >100 To 250, Deduct   | -52.27                    |                         |
| For >250 To 500, Deduct   | -77.52                    |                         |
| For >500 To 1000, Deduct  | -102.78                   |                         |
| For >1000, Deduct   | -128.03                   |                         |
| 26 56 19 00-0129 EA Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....   | 711.33                    | 193.98                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add  | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                     |                         |
| For >50 To 100, Deduct  | -35.57                    |                         |
| For >100 To 250, Deduct   | -53.35                    |                         |
| For >250 To 500, Deduct   | -79.22                    |                         |
| For >500 To 1000, Deduct  | -105.08                   |                         |
| For >1000, Deduct   | -130.95                   |                         |
| 26 56 19 00-0130 EA Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....  | 754.53                    | 195.25                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add  | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                     |                         |
| For >50 To 100, Deduct  | -37.73                    |                         |
| For >100 To 250, Deduct   | -56.59                    |                         |
| For >250 To 500, Deduct   | -84.55                    |                         |
| For >500 To 1000, Deduct  | -112.52                   |                         |
| For >1000, Deduct   | -140.48                   |                         |
| 26 56 19 00-0131 EA Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....   | 867.32                    | 202.85                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add  | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                     |                         |
| For >50 To 100, Deduct  | -43.37                    |                         |
| For >100 To 250, Deduct   | -65.05                    |                         |
| For >250 To 500, Deduct   | -98.27                    |                         |
| For >500 To 1000, Deduct  | -131.50                   |                         |
| For >1000, Deduct   | -164.72                   |                         |
| 26 56 19 00-0132 EA Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....  | 1,004.36                  | 208.32                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add  | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                     |                         |
| For >50 To 100, Deduct  | -50.22                    |                         |
| For >100 To 250, Deduct   | -75.33                    |                         |
| For >250 To 500, Deduct   | -115.13                   |                         |
| For >500 To 1000, Deduct  | -154.93                   |                         |
| For >1000, Deduct   | -194.73                   |                         |
| 26 56 19 00-0133 EA Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....  | 1,011.12                  | 211.70                  |
| For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add  | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                     |                         |
| For >50 To 100, Deduct  | -50.56                    |                         |
| For >100 To 250, Deduct   | -75.83                    |                         |
| For >250 To 500, Deduct   | -115.81                   |                         |
| For >500 To 1000, Deduct  | -155.78                   |                         |
| For >1000, Deduct   | -195.75                   |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 26 56 | 19 00-0134 | EA  | Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL) ..... | 1,223.27               | 215.07               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -61.16                 |                      |
|       |            |     | For >100 To 250, Deduct   | -91.75                 |                      |
|       |            |     | For >250 To 500, Deduct   | -142.16                |                      |
|       |            |     | For >500 To 1000, Deduct  | -192.56                |                      |
|       |            |     | For >1000, Deduct   | -242.97                |                      |
| 26 56 | 19 00-0135 | EA  | Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL) ..... | 1,280.51               | 219.29               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -64.03                 |                      |
|       |            |     | For >100 To 250, Deduct   | -96.04                 |                      |
|       |            |     | For >250 To 500, Deduct   | -149.10                |                      |
|       |            |     | For >500 To 1000, Deduct  | -202.16                |                      |
|       |            |     | For >1000, Deduct   | -255.22                |                      |
| 26 56 | 19 00-0136 | EA  | Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL) ..... | 1,421.47               | 222.66               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -71.07                 |                      |
|       |            |     | For >100 To 250, Deduct   | -106.61                |                      |
|       |            |     | For >250 To 500, Deduct   | -166.55                |                      |
|       |            |     | For >500 To 1000, Deduct  | -226.49                |                      |
|       |            |     | For >1000, Deduct   | -286.43                |                      |
| 26 56 | 19 00-0137 | EA  | Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL) ..... | 1,519.74               | 226.04               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -75.99                 |                      |
|       |            |     | For >100 To 250, Deduct   | -113.98                |                      |
|       |            |     | For >250 To 500, Deduct   | -178.67                |                      |
|       |            |     | For >500 To 1000, Deduct  | -243.35                |                      |
|       |            |     | For >1000, Deduct   | -308.04                |                      |
| 26 56 | 19 00-0138 | EA  | Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL) .....    | 796.74                 | 193.98               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -39.84                 |                      |
|       |            |     | For >100 To 250, Deduct   | -59.76                 |                      |
|       |            |     | For >250 To 500, Deduct   | -89.89                 |                      |
|       |            |     | For >500 To 1000, Deduct  | -120.03                |                      |
|       |            |     | For >1000, Deduct   | -150.17                |                      |
| 26 56 | 19 00-0139 | EA  | Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL) .....    | 869.89                 | 199.05               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -43.49                 |                      |
|       |            |     | For >100 To 250, Deduct   | -65.24                 |                      |
|       |            |     | For >250 To 500, Deduct   | -98.78                 |                      |
|       |            |     | For >500 To 1000, Deduct  | -132.33                |                      |
|       |            |     | For >1000, Deduct   | -165.87                |                      |
| 26 56 | 19 00-0140 | EA  | Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL) .....    | 934.43                 | 202.85               |
|       |            |     | For LightGrid™ Wireless Outdoor Controller, Add   | 20.00                  |                      |
|       |            |     | For Twist Lock Shorting Cap, Add  | 9.68                   |                      |
|       |            |     | For ANSI 7-wire Photocontrol Receptacle, Add  | 29.05                  |                      |
|       |            |     | For Ripley Long-Life Twist Lock Photocontrol, Add   | 51.98                  |                      |
|       |            |     | For >50 To 100, Deduct  | -46.72                 |                      |
|       |            |     | For >100 To 250, Deduct   | -70.08                 |                      |
|       |            |     | For >250 To 500, Deduct   | -106.66                |                      |
|       |            |     | For >500 To 1000, Deduct  | -143.24                |                      |
|       |            |     | For >1000, Deduct   | -179.82                |                      |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 26 56 19 00-0141 EA Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL) ..... | 990.48                    | 207.49                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -49.52                    |                         |
| For >100 To 250, Deduct  | -74.29                    |                         |
| For >250 To 500, Deduct  | -113.44                   |                         |
| For >500 To 1000, Deduct   | -152.59                   |                         |
| For >1000, Deduct  | -191.74                   |                         |
| 26 56 19 00-0142 EA Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL) .....  | 1,046.73                  | 209.17                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -52.34                    |                         |
| For >100 To 250, Deduct  | -78.50                    |                         |
| For >250 To 500, Deduct  | -120.38                   |                         |
| For >500 To 1000, Deduct   | -162.26                   |                         |
| For >1000, Deduct  | -204.14                   |                         |
| 26 56 19 00-0143 EA Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL) .....  | 1,234.76                  | 216.76                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -61.74                    |                         |
| For >100 To 250, Deduct  | -92.61                    |                         |
| For >250 To 500, Deduct  | -143.51                   |                         |
| For >500 To 1000, Deduct   | -194.41                   |                         |
| For >1000, Deduct  | -245.31                   |                         |
| 26 56 19 00-0144 EA Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL) .....  | 1,387.59                  | 220.98                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -69.38                    |                         |
| For >100 To 250, Deduct  | -104.07                   |                         |
| For >250 To 500, Deduct  | -162.40                   |                         |
| For >500 To 1000, Deduct   | -220.73                   |                         |
| For >1000, Deduct  | -279.06                   |                         |
| 26 56 19 00-0145 EA Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL) ..... | 1,470.63                  | 221.82                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -73.53                    |                         |
| For >100 To 250, Deduct  | -110.30                   |                         |
| For >250 To 500, Deduct  | -172.74                   |                         |
| For >500 To 1000, Deduct   | -235.18                   |                         |
| For >1000, Deduct  | -297.62                   |                         |
| 26 56 19 00-0146 EA Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL) ..... | 1,550.93                  | 224.35                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -77.55                    |                         |
| For >100 To 250, Deduct  | -116.32                   |                         |
| For >250 To 500, Deduct  | -182.65                   |                         |
| For >500 To 1000, Deduct   | -248.98                   |                         |
| For >1000, Deduct  | -315.31                   |                         |
| 26 56 19 00-0147 EA Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP) .....  | 856.57                    | 211.70                  |
| For LightGrid™ Wireless Outdoor Controller, Add  | 20.00                     |                         |
| For Twist Lock Shorting Cap, Add   | 9.68                      |                         |
| For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05                     |                         |
| For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98                     |                         |
| For >50 To 100, Deduct   | -42.83                    |                         |
| For >100 To 250, Deduct  | -64.24                    |                         |
| For >250 To 500, Deduct  | -96.49                    |                         |
| For >500 To 1000, Deduct   | -128.73                   |                         |
| For >1000, Deduct  | -160.97                   |                         |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR            |     |  |          | TOTAL DIRECT | DEMOLITION |
|------------------|-----|--|----------|--------------|------------|
| CSI              | UOM | DESCRIPTION  |          | UNIT COST    | UNIT COST  |
| 26 56 19 00-0148 | EA  | Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP) .....    | 921.79   |              | 213.81     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -46.09   |              |            |
|                  |     | For >100 To 250, Deduct  | -69.13   |              |            |
|                  |     | For >250 To 500, Deduct  | -104.53  |              |            |
|                  |     | For >500 To 1000, Deduct   | -139.93  |              |            |
|                  |     | For >1000, Deduct  | -175.33  |              |            |
| 26 56 19 00-0149 | EA  | Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL) .....   | 669.81   |              | 193.56     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -33.49   |              |            |
|                  |     | For >100 To 250, Deduct  | -50.24   |              |            |
|                  |     | For >250 To 500, Deduct  | -74.05   |              |            |
|                  |     | For >500 To 1000, Deduct   | -97.86   |              |            |
|                  |     | For >1000, Deduct  | -121.67  |              |            |
| 26 56 19 00-0150 | EA  | Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL) .....   | 681.32   |              | 195.25     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -34.07   |              |            |
|                  |     | For >100 To 250, Deduct  | -51.10   |              |            |
|                  |     | For >250 To 500, Deduct  | -75.40   |              |            |
|                  |     | For >500 To 1000, Deduct   | -99.71   |              |            |
|                  |     | For >1000, Deduct  | -124.01  |              |            |
| 26 56 19 00-0151 | EA  | Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL) .....  | 735.67   |              | 199.05     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -36.78   |              |            |
|                  |     | For >100 To 250, Deduct  | -55.18   |              |            |
|                  |     | For >250 To 500, Deduct  | -82.01   |              |            |
|                  |     | For >500 To 1000, Deduct   | -108.84  |              |            |
|                  |     | For >1000, Deduct  | -135.67  |              |            |
| 26 56 19 00-0152 | EA  | Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL) .....  | 1,099.22 |              | 215.07     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -54.96   |              |            |
|                  |     | For >100 To 250, Deduct  | -82.44   |              |            |
|                  |     | For >250 To 500, Deduct  | -126.65  |              |            |
|                  |     | For >500 To 1000, Deduct   | -170.86  |              |            |
|                  |     | For >1000, Deduct  | -215.06  |              |            |
| 26 56 19 00-0153 | EA  | Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL) .....  | 1,413.69 |              | 221.82     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -70.68   |              |            |
|                  |     | For >100 To 250, Deduct  | -106.03  |              |            |
|                  |     | For >250 To 500, Deduct  | -165.62  |              |            |
|                  |     | For >500 To 1000, Deduct   | -225.21  |              |            |
|                  |     | For >1000, Deduct  | -284.81  |              |            |
| 26 56 19 00-0154 | EA  | Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL) ..... | 1,268.94 |              | 222.66     |
|                  |     | For LightGrid™ Wireless Outdoor Controller, Add  | 20.00    |              |            |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -63.45   |              |            |
|                  |     | For >100 To 250, Deduct  | -95.17   |              |            |
|                  |     | For >250 To 500, Deduct  | -147.48  |              |            |
|                  |     | For >500 To 1000, Deduct   | -199.80  |              |            |
|                  |     | For >1000, Deduct  | -252.11  |              |            |
| 26 56 19 00-0155 | EA  | Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY) .....          | 646.25   |              | 193.98     |
|                  |     | For Twist Lock Shorting Cap, Add   | 9.68     |              |            |
|                  |     | For ANSI 7-wire Photocontrol Receptacle, Add   | 29.05    |              |            |
|                  |     | For Ripley Long-Life Twist Lock Photocontrol, Add  | 51.98    |              |            |
|                  |     | For >50 To 100, Deduct   | -32.31   |              |            |
|                  |     | For >100 To 250, Deduct  | -48.47   |              |            |
|                  |     | For >250 To 500, Deduct  | -71.08   |              |            |
|                  |     | For >500 To 1000, Deduct   | -93.69   |              |            |
|                  |     | For >1000, Deduct  | -116.31  |              |            |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Exterior Lighting | 26 56     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 19 00-0156 LED, Area Fixtures <small>(26 56 19)</small>   |                           |                         |
| 26 56 19 00-0157 Pole Mount, LED Area Fixtures <small>(26 56 19 00-0156)</small>  |                           |                         |
| 26 56 19 00-0158 Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) <small>(26 56 19 00-0157)</small>  |                           |                         |
| Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.  |                           |                         |
| 26 56 19 00-0159 EA 20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED) .....  | 2,546.06                  | 143.39                  |
| For >50 To 100, Deduct  | -127.30                   |                         |
| For >100 To 250, Deduct   | -190.95                   |                         |
| For >250 To 500, Deduct   | -311.09                   |                         |
| For >500 To 1000, Deduct  | -431.22                   |                         |
| For >1000, Deduct   | -551.36                   |                         |
| 26 56 19 00-0160 EA 40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED) .....  | 2,743.68                  | 151.82                  |
| For >50 To 100, Deduct  | -137.18                   |                         |
| For >100 To 250, Deduct   | -205.78                   |                         |
| For >250 To 500, Deduct   | -335.37                   |                         |
| For >500 To 1000, Deduct  | -464.96                   |                         |
| For >1000, Deduct   | -594.56                   |                         |
| 26 56 19 00-0161 EA 80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED) .....   | 2,958.16                  | 168.68                  |
| For >50 To 100, Deduct  | -147.91                   |                         |
| For >100 To 250, Deduct   | -221.86                   |                         |
| For >250 To 500, Deduct   | -361.34                   |                         |
| For >500 To 1000, Deduct  | -500.81                   |                         |
| For >1000, Deduct   | -640.28                   |                         |
| 26 56 19 00-0162 EA 100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED) .....  | 2,975.03                  | 177.11                  |
| For >50 To 100, Deduct  | -148.75                   |                         |
| For >100 To 250, Deduct   | -223.13                   |                         |
| For >250 To 500, Deduct   | -363.02                   |                         |
| For >500 To 1000, Deduct  | -502.92                   |                         |
| For >1000, Deduct   | -642.81                   |                         |
| <br>  |                           |                         |
| 26 56 19 00-0163 Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) <small>(26 56 19 00-0157)</small>   |                           |                         |
| Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified |                           |                         |
| 26 56 19 00-0164 EA 40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 1,470.91                  | 151.82                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 47.24                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -73.55                    |                         |
| For >100 To 250, Deduct   | -110.32                   |                         |
| For >250 To 500, Deduct   | -176.27                   |                         |
| For >500 To 1000, Deduct  | -242.23                   |                         |
| For >1000, Deduct   | -308.18                   |                         |
| 26 56 19 00-0165 EA 60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 1,768.16                  | 160.24                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 48.09                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -88.41                    |                         |
| For >100 To 250, Deduct   | -132.61                   |                         |
| For >250 To 500, Deduct   | -213.01                   |                         |
| For >500 To 1000, Deduct  | -293.40                   |                         |
| For >1000, Deduct   | -373.80                   |                         |
| 26 56 19 00-0166 EA 80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 2,177.94                  | 168.68                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 48.93                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -108.90                   |                         |
| For >100 To 250, Deduct   | -163.35                   |                         |
| For >250 To 500, Deduct   | -263.81                   |                         |
| For >500 To 1000, Deduct  | -364.27                   |                         |
| For >1000, Deduct   | -464.73                   |                         |
| 26 56 19 00-0167 EA 100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 2,475.19                  | 177.11                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 49.77                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -123.76                   |                         |
| For >100 To 250, Deduct   | -185.64                   |                         |
| For >250 To 500, Deduct   | -300.54                   |                         |
| For >500 To 1000, Deduct  | -415.45                   |                         |
| For >1000, Deduct   | -530.35                   |                         |



|              |                          |
|--------------|--------------------------|
| <b>26</b>    | <b>Electrical</b>        |
| <b>26 50</b> | <b>Lighting</b>          |
| <b>26 56</b> | <b>Exterior Lighting</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 19 00-0168 EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 2,772.43                  | 185.55                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 50.62                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -138.62                   |                         |
| For >100 To 250, Deduct   | -207.93                   |                         |
| For >250 To 500, Deduct   | -337.28                   |                         |
| For >500 To 1000, Deduct  | -466.62                   |                         |
| For >1000, Deduct   | -595.96                   |                         |
| 26 56 19 00-0169 EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 3,159.32                  | 193.98                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 51.46                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -157.97                   |                         |
| For >100 To 250, Deduct   | -236.95                   |                         |
| For >250 To 500, Deduct   | -385.22                   |                         |
| For >500 To 1000, Deduct  | -533.48                   |                         |
| For >1000, Deduct   | -681.75                   |                         |
| 26 56 19 00-0170 EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) .....   | 3,456.56                  | 202.42                  |
| For Backlight Shielding, Add  | 26.70                     |                         |
| For Type II Medium Optic, Add   | 52.30                     |                         |
| For 480 Volt, Add   | 107.03                    |                         |
| For Multi-Level Drive Currents, Add   | 267.03                    |                         |
| For >50 To 100, Deduct  | -172.83                   |                         |
| For >100 To 250, Deduct   | -259.24                   |                         |
| For >250 To 500, Deduct   | -421.95                   |                         |
| For >500 To 1000, Deduct  | -584.66                   |                         |
| For >1000, Deduct   | -747.36                   |                         |
| <b>26 56 19 00-0171 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures</b><br><b>(CREE® BetaLED® Edge® ARE-EHO)</b> <small>(26 56 19 00-0157)</small>   |                           |                         |
| Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0172 EA 120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO) .....  | 2,565.41                  | 185.55                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                     |                         |
| For Bird Spikes, Add  | 54.00                     |                         |
| For 5,000K Color Temperature, Add   | 56.24                     |                         |
| For Fuse, Add   | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add   | 67.48                     |                         |
| For 480 Volt, Add   | 101.23                    |                         |
| For Multi-Level, Add  | 146.21                    |                         |
| For 1,000mA Driver, Add   | 188.98                    |                         |
| For >50 To 100, Deduct  | -128.27                   |                         |
| For >100 To 250, Deduct   | -192.41                   |                         |
| For >250 To 500, Deduct   | -311.40                   |                         |
| For >500 To 1000, Deduct  | -430.39                   |                         |
| For >1000, Deduct   | -549.38                   |                         |
| 26 56 19 00-0173 EA 240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO) .....  | 4,303.17                  | 227.72                  |
| For 3 Or 7-Pin NEMA Photocell Receptacle, Add   | 22.49                     |                         |
| For 5,000K Color Temperature, Add   | 56.24                     |                         |
| For Fuse, Add   | 67.48                     |                         |
| For 0 To 10 Volt Dimming, Add   | 67.48                     |                         |
| For Bird Spikes, Add  | 79.47                     |                         |
| For Multi-Level, Add  | 146.21                    |                         |
| For 1,000mA Driver, Add   | 188.96                    |                         |
| For 480 Volt, Add   | 202.45                    |                         |
| For >50 To 100, Deduct  | -215.16                   |                         |
| For >100 To 250, Deduct   | -322.74                   |                         |
| For >250 To 500, Deduct   | -526.51                   |                         |
| For >500 To 1000, Deduct  | -730.28                   |                         |
| For >1000, Deduct   | -934.05                   |                         |
| <b>26 56 19 00-0174 Wall Mount, LED Area Fixtures</b> <small>(26 56 19 00-0156)</small>   |                           |                         |
| <b>26 56 19 00-0175 Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW)</b> <small>(26 56 19 00-0174)</small>   |                           |                         |
| Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.                      |                           |                         |
| 26 56 19 00-0176 EA 20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED) .....  | 1,156.14                  | 143.39                  |
| For >50 To 100, Deduct  | -57.81                    |                         |
| For >100 To 250, Deduct   | -86.71                    |                         |
| For >250 To 500, Deduct   | -137.35                   |                         |
| For >500 To 1000, Deduct  | -187.99                   |                         |
| For >1000, Deduct   | -238.62                   |                         |
| 26 56 19 00-0177 EA 30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED) .....  | 1,189.88                  | 160.24                  |
| For >50 To 100, Deduct  | -59.49                    |                         |
| For >100 To 250, Deduct   | -89.24                    |                         |
| For >250 To 500, Deduct   | -140.72                   |                         |
| For >500 To 1000, Deduct  | -192.20                   |                         |
| For >1000, Deduct   | -243.69                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |          |        |
|------------------|--|----------|--------|
| 26 56 19 00-0178 | Surface Mount, LED Parking Structure Fixtures <small>(26 56 19 00-0156)</small>  |          |        |
| 26 56 19 00-0179 | Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE®<br>BetaLED® Edge® PKG-EDG) <small>(26 56 19 00-0178)</small><br>Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |          |        |
| 26 56 19 00-0180 | EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....   | 1,303.07 | 151.82 |
|                  | <i>For Multi-Level Drive Currents, Add</i>   | 267.03   |        |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -65.15   |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -97.73   |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -155.29  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -212.86  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -270.42  |        |
| 26 56 19 00-0181 | EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....   | 1,600.32 | 160.24 |
|                  | <i>For Multi-Level Drive Currents, Add</i>   | 267.03   |        |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -80.02   |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -120.02  |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -192.03  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -264.03  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -336.03  |        |
| 26 56 19 00-0182 | EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....   | 1,897.56 | 168.68 |
|                  | <i>For Multi-Level Drive Currents, Add</i>   | 267.03   |        |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -94.88   |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -142.32  |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -228.76  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -315.20  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -401.65  |        |
| 26 56 19 00-0183 | EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....   | 2,194.81 | 177.11 |
|                  | <i>For Multi-Level Drive Currents, Add</i>   | 267.03   |        |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -109.74  |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -164.61  |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -265.50  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -366.38  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -467.26  |        |
| 26 56 19 00-0184 | Surface Mount, Square, LED Parking Structure Fixtures (CREE®<br>BetaLED® Edge® PKG-304) <small>(26 56 19 00-0178)</small><br>Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.      |          |        |
| 26 56 19 00-0185 | EA 40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....  | 1,257.29 | 151.82 |
|                  | <i>For Multi-Level Drive Currents, Add</i>   | 267.03   |        |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -62.86   |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -94.30   |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -149.57  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -204.84  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -260.12  |        |
| 26 56 19 00-0186 | EA 60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....  | 1,386.69 | 160.24 |
|                  | <i>For Multi-Level Drive Currents, Add</i>   | 267.03   |        |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -69.33   |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -104.00  |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -165.32  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -226.65  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -287.97  |        |
| 26 56 19 00-0187 | Surface Mount, Square, LED Parking Structure Fixtures (CREE®<br>BetaLED® VG) <small>(26 56 19 00-0178)</small><br>Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.  |          |        |
| 26 56 19 00-0188 | EA 3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADMSMA40KUL).....  | 1,056.37 | 151.82 |
|                  | <i>For &gt;50 To 100, Deduct</i>   | -52.82   |        |
|                  | <i>For &gt;100 To 250, Deduct</i>  | -79.23   |        |
|                  | <i>For &gt;250 To 500, Deduct</i>  | -124.46  |        |
|                  | <i>For &gt;500 To 1000, Deduct</i>   | -169.68  |        |
|                  | <i>For &gt;1000, Deduct</i>  | -214.91  |        |
| 26 56 19 00-0189 | Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips<br>Gardco ELG) <small>(26 56 19 00-0178)</small><br>Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.   |          |        |

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 26 56 19 00-0190 | EA  | 70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....   | 2,046.80                  | 160.24                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -102.34                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -153.51                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -247.84                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -342.17                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -436.49                   |                         |
| 26 56 19 00-0191 | EA  | 110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....  | 2,080.54                  | 177.11                  |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -104.03                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -156.04                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -251.21                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -346.38                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -441.55                   |                         |
| 26 56 19 00-0192 |     | Surface Mount, LED Canopy Fixtures <small>(26 56 19 00-0192)</small>   |                           |                         |
| 26 56 19 00-0193 |     | Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) <small>(26 56 19 00-0192)</small>   |                           |                         |
|                  |     | Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0194 | EA  | 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 1,505.24                  | 151.82                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -75.26                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -112.89                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -180.56                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -248.24                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -315.91                   |                         |
| 26 56 19 00-0195 | EA  | 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 1,802.49                  | 160.24                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -90.12                    |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -135.19                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -217.30                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -299.41                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -381.52                   |                         |
| 26 56 19 00-0196 | EA  | 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 2,099.74                  | 168.68                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -104.99                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -157.48                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -254.03                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -350.59                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -447.14                   |                         |
| 26 56 19 00-0197 | EA  | 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 2,396.99                  | 177.11                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -119.85                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -179.77                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -290.77                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -401.76                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -512.75                   |                         |
| 26 56 19 00-0198 | EA  | 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 2,694.23                  | 185.55                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -134.71                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -202.07                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -327.50                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -452.93                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -578.37                   |                         |
| 26 56 19 00-0199 | EA  | 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 3,104.01                  | 193.98                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -155.20                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -232.80                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -378.30                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -523.80                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -669.30                   |                         |
| 26 56 19 00-0200 | EA  | 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 3,401.25                  | 202.42                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -170.06                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -255.09                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -415.04                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -574.98                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -734.92                   |                         |
| 26 56 19 00-0201 | EA  | 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 3,995.74                  | 219.29                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -199.79                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -299.68                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -488.50                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -677.33                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -866.15                   |                         |
| 26 56 19 00-0202 | EA  | 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....   | 4,573.36                  | 227.72                  |
|                  |     | <i>For Multi-Level Drive Currents, Add</i>   | 267.03                    |                         |
|                  |     | <i>For &gt;50 To 100, Deduct</i>   | -228.67                   |                         |
|                  |     | <i>For &gt;100 To 250, Deduct</i>  | -343.00                   |                         |
|                  |     | <i>For &gt;250 To 500, Deduct</i>  | -560.28                   |                         |
|                  |     | <i>For &gt;500 To 1000, Deduct</i>   | -777.57                   |                         |
|                  |     | <i>For &gt;1000, Deduct</i>  | -994.85                   |                         |



|                          |              |           |
|--------------------------|--------------|-----------|
| <b>Electrical</b>        | <b>26</b>    | <b>26</b> |
| <b>Lighting</b>          | <b>26 50</b> |           |
| <b>Exterior Lighting</b> | <b>26 56</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>26 56 19 00-0203 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250)</b> <small>(26 56 19 00-0192)</small>   |                           |                         |
| Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.   |                           |                         |
| 26 56 19 00-0204 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250) .....   | 1,056.43                  | 168.68                  |
| For >50 To 100, Deduct  | -52.82                    |                         |
| For >100 To 250, Deduct   | -79.23                    |                         |
| For >250 To 500, Deduct   | -123.62                   |                         |
| For >500 To 1000, Deduct  | -168.01                   |                         |
| For >1000, Deduct   | -212.39                   |                         |
| <b>26 56 19 00-0205 Recessed Mount, LED Soffit Fixtures</b> <small>(26 56 19 00-0156)</small>   |                           |                         |
| <b>26 56 19 00-0206 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304)</b> <small>(26 56 19 00-0205)</small>  |                           |                         |
| Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.   |                           |                         |
| 26 56 19 00-0207 EA 40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304) .....   | 1,280.18                  | 151.82                  |
| For >50 To 100, Deduct  | -64.01                    |                         |
| For >100 To 250, Deduct   | -96.01                    |                         |
| For >250 To 500, Deduct   | -152.43                   |                         |
| For >500 To 1000, Deduct  | -208.85                   |                         |
| For >1000, Deduct   | -265.27                   |                         |
| 26 56 19 00-0208 EA 60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304) .....   | 1,409.58                  | 160.24                  |
| For >50 To 100, Deduct  | -70.48                    |                         |
| For >100 To 250, Deduct   | -105.72                   |                         |
| For >250 To 500, Deduct   | -168.19                   |                         |
| For >500 To 1000, Deduct  | -230.65                   |                         |
| For >1000, Deduct   | -293.12                   |                         |
| <b>26 56 19 00-0209 Surface Mount, LED Area Fixtures</b> <small>(26 56 19 00-0156)</small>  |                           |                         |
| <b>26 56 19 00-0210 Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG)</b> <small>(26 56 19 00-0209)</small>   |                           |                         |
| Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.   |                           |                         |
| 26 56 19 00-0211 EA 50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG) .....  | 708.10                    | 151.82                  |
| For >50 To 100, Deduct  | -35.41                    |                         |
| For >100 To 250, Deduct   | -53.11                    |                         |
| For >250 To 500, Deduct   | -80.92                    |                         |
| For >500 To 1000, Deduct  | -108.74                   |                         |
| For >1000, Deduct   | -136.55                   |                         |
| 26 56 19 00-0212 EA 50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG) .....  | 1,504.62                  | 151.82                  |
| For >50 To 100, Deduct  | -75.23                    |                         |
| For >100 To 250, Deduct   | -112.85                   |                         |
| For >250 To 500, Deduct   | -180.49                   |                         |
| For >500 To 1000, Deduct  | -248.13                   |                         |
| For >1000, Deduct   | -315.77                   |                         |
| 26 56 19 00-0213 EA 68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG) .....  | 1,266.68                  | 168.68                  |
| For >50 To 100, Deduct  | -63.33                    |                         |
| For >100 To 250, Deduct   | -95.00                    |                         |
| For >250 To 500, Deduct   | -149.90                   |                         |
| For >500 To 1000, Deduct  | -204.80                   |                         |
| For >1000, Deduct   | -259.70                   |                         |
| 26 56 19 00-0214 EA 68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG) .....  | 1,553.46                  | 168.68                  |
| For >50 To 100, Deduct  | -77.67                    |                         |
| For >100 To 250, Deduct   | -116.51                   |                         |
| For >250 To 500, Deduct   | -185.75                   |                         |
| For >500 To 1000, Deduct  | -254.99                   |                         |
| For >1000, Deduct   | -324.23                   |                         |
| <b>26 56 19 00-0215 Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®)</b> <small>(26 56 19 00-0209)</small>   |                           |                         |
| Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 56 19 00-0216 EA 13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A) .....   | 228.72                    | 55.38                   |
| For Knuckle Mount Or Trunnion Mount Base, Add   | 45.00                     |                         |
| For >50 To 100, Deduct  | -11.44                    |                         |
| For >100 To 250, Deduct   | -17.15                    |                         |
| For >250 To 500, Deduct   | -26.28                    |                         |
| For >500 To 1000, Deduct  | -35.41                    |                         |
| For >1000, Deduct   | -44.54                    |                         |
| 26 56 19 00-0217 EA 20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A) .....   | 257.66                    | 55.38                   |
| For Knuckle Mount Or Trunnion Mount Base, Add   | 45.00                     |                         |
| For >50 To 100, Deduct  | -12.88                    |                         |
| For >100 To 250, Deduct   | -19.32                    |                         |
| For >250 To 500, Deduct   | -29.90                    |                         |
| For >500 To 1000, Deduct  | -40.48                    |                         |
| For >1000, Deduct   | -51.05                    |                         |

**26 Electrical**

**26 50 Lighting**

**26 56 Exterior Lighting**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 26 56 19 00-0218 | EA  |     | 30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....   | 312.78                 | 55.38                |
|                  |     |     | <i>For Knuckle Mount Or Trunnion Mount Base, Add</i>   | 45.00                  |                      |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -15.64                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -23.46                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -36.79                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -50.12                 |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -63.45                 |                      |
| 26 56 19 00-0219 |     |     | Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0156)</small>   |                        |                      |
| 26 56 19 00-0220 |     |     | Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0219)</small>  |                        |                      |
| 26 56 19 00-0221 | EA  |     | 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....  | 775.20                 | 64.65                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -38.76                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -58.14                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -94.44                 |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -130.74                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -167.04                |                      |
| 26 56 19 00-0222 | EA  |     | 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....  | 1,249.26               | 59.03                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -62.46                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -93.69                 |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -154.05                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -214.40                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -274.76                |                      |
| 26 56 19 00-0223 | EA  |     | 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....  | 1,588.60               | 49.19                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -79.43                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -119.15                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -196.82                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -274.49                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -352.16                |                      |
| 26 56 19 00-0224 | EA  |     | 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....  | 1,927.92               | 39.36                |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -96.40                 |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -144.59                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -239.58                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -334.58                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -429.57                |                      |
| 26 56 19 00-0225 |     |     | Post Top, LED Area Fixtures <small>(26 56 19 00-0156)</small>  |                        |                      |
| 26 56 19 00-0226 |     |     | Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 19 00-0225)</small>   |                        |                      |
|                  |     |     | Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors. |                        |                      |
| 26 56 19 00-0227 | EA  |     | 1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....  | 2,200.82               | 231.94               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -110.04                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -165.06                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -263.51                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -361.95                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -460.39                |                      |
| 26 56 19 00-0228 | EA  |     | 3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....  | 2,422.44               | 231.94               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -121.12                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -181.68                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -291.21                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -400.73                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -510.26                |                      |
| 26 56 19 00-0229 | EA  |     | 77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....  | 2,597.63               | 231.94               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -129.88                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -194.82                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -313.11                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -431.39                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -549.68                |                      |
| 26 56 19 00-0230 |     |     | Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 19 00-0225)</small>  |                        |                      |
|                  |     |     | Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.  |                        |                      |
| 26 56 19 00-0231 | EA  |     | 3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....   | 2,580.91               | 231.94               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -129.05                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -193.57                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -311.02                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -428.46                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -545.91                |                      |
| 26 56 19 00-0232 | EA  |     | 6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....   | 2,637.85               | 231.94               |
|                  |     |     | <i>For &gt;50 To 100, Deduct</i>   | -131.89                |                      |
|                  |     |     | <i>For &gt;100 To 250, Deduct</i>  | -197.84                |                      |
|                  |     |     | <i>For &gt;250 To 500, Deduct</i>  | -318.13                |                      |
|                  |     |     | <i>For &gt;500 To 1000, Deduct</i>   | -438.43                |                      |
|                  |     |     | <i>For &gt;1000, Deduct</i>  | -558.72                |                      |
| 26 56 19 00-0233 |     |     | Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 19 00-0225)</small>  |                        |                      |
|                  |     |     | Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.  |                        |                      |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Exterior Lighting | 26 56     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 19 00-0234 EA 3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....  | 1,809.97                  | 231.94                  |
| <i>For &gt;50 To 100, Deduct</i>  | -90.50                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -135.75                   |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -214.65                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -293.55                   |                         |
| <i>For &gt;1000, Deduct</i>   | -372.45                   |                         |
| 26 56 19 00-0235 EA 6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....  | 1,895.19                  | 231.94                  |
| <i>For &gt;50 To 100, Deduct</i>  | -94.76                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -142.14                   |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -225.30                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -308.46                   |                         |
| <i>For &gt;1000, Deduct</i>   | -391.63                   |                         |
| <b>26 56 19 00-0236 Post Top, LED Area Fixtures (General Electric EPST) (26 56 19 00-0225)</b>  |                           |                         |
| Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.                             |                           |                         |
| 26 56 19 00-0237 EA 3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3).....   | 1,422.61                  | 231.94                  |
| <i>For &gt;50 To 100, Deduct</i>  | -71.13                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -106.70                   |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -166.23                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -225.76                   |                         |
| <i>For &gt;1000, Deduct</i>   | -285.30                   |                         |
| 26 56 19 00-0238 EA 6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3).....   | 1,507.83                  | 231.94                  |
| <i>For &gt;50 To 100, Deduct</i>  | -75.39                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -113.09                   |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -176.88                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -240.68                   |                         |
| <i>For &gt;1000, Deduct</i>   | -304.47                   |                         |
| <b>26 56 19 00-0239 Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) (26 56 19 00-0225)</b>   |                           |                         |
| Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors. |                           |                         |
| 26 56 19 00-0240 EA 13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR).....   | 3,370.65                  | 231.94                  |
| <i>For &gt;50 To 100, Deduct</i>  | -168.53                   |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -252.80                   |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -409.73                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -566.67                   |                         |
| <i>For &gt;1000, Deduct</i>   | -723.60                   |                         |
| <b>26 56 19 00-0241 LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) (26 56 19 00-0225)</b>   |                           |                         |
| Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.                      |                           |                         |
| 26 56 19 00-0242 EA LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAH53).....   | 949.82                    | 126.52                  |
| <i>For 0 To 10 Volt Dimming, Add</i>  | 67.48                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -47.49                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -71.24                    |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -112.40                   |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -153.57                   |                         |
| <i>For &gt;1000, Deduct</i>   | -194.73                   |                         |
| <b>26 56 19 00-0243 LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 19 00-0225)</b>  |                           |                         |
| Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.                                |                           |                         |
| 26 56 19 00-0244 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT).....  | 589.81                    | 26.99                   |
| <i>For Backlight Control Shield, Add</i>  | 45.55                     |                         |
| <i>For &gt;50 To 100, Deduct</i>  | -29.49                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -44.24                    |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -71.03                    |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -97.82                    |                         |
| <i>For &gt;1000, Deduct</i>   | -124.61                   |                         |
| <b>26 56 19 00-0245 Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0156)</b>   |                           |                         |
| 26 56 19 00-0246 EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D).....   | 537.41                    | 51.44                   |
| <i>For &gt;50 To 100, Deduct</i>  | -26.87                    |                         |
| <i>For &gt;100 To 250, Deduct</i>   | -40.31                    |                         |
| <i>For &gt;250 To 500, Deduct</i>   | -65.24                    |                         |
| <i>For &gt;500 To 1000, Deduct</i>  | -90.18                    |                         |
| <i>For &gt;1000, Deduct</i>   | -115.12                   |                         |
| <b>26 56 21 HID Exterior Lighting (26 56)</b>   |                           |                         |
| 26 56 21 00-0001 High Mast Fixtures (26 56 21)  |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| <b>26 56 21 00-0002</b>   | <b>Metal Halide, High Mast Fixtures</b> <small>(26 56 21 00-0001)</small>   |                         |
| 26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....                                       | 2,001.93  | 208.80                  |
| 26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....                          | 2,136.01  | 208.80                  |
| 26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....                                       | 2,125.57  | 238.55                  |
| 26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....                          | 2,206.02  | 238.55                  |
| 26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....                                     | 2,245.32  | 298.19                  |
| 26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....                        | 2,325.77  | 298.19                  |
| <b>26 56 21 00-0009</b>   | <b>High Pressure Sodium, High Mast Fixtures</b> <small>(26 56 21 00-0001)</small>                                     |                         |
| 26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux .....  | 2,066.56  | 208.80                  |
| 26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....                                   | 2,147.01  | 208.80                  |
| 26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....                             | 2,493.13  | 220.73                  |
| 26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....                             | 2,557.21  | 238.55                  |
| 26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....                           | 2,717.17  | 298.19                  |
| <b>26 56 21 00-0015</b>   | <b>HID, Pole Mounted</b> <small>(26 56 21)</small>  |                         |
| <b>26 56 21 00-0016</b>   | <b>Metal Halide, Pole Mounted</b> <small>(26 56 21 00-0015)</small>   |                         |
| 26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 744.15  | 340.48                  |
| 26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 830.91  | 369.59                  |
| 26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 955.04  | 397.58                  |
| 26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 1,237.81  | 465.96                  |
| <b>26 56 21 00-0021</b>   | <b>High Pressure Sodium, Pole Mounted</b> <small>(26 56 21 00-0015)</small>   |                         |
| 26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 912.69  | 397.58                  |
| 26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 937.73  | 397.58                  |
| 26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 980.33  | 397.58                  |
| 26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 1,088.24  | 397.58                  |
| 26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....  | 1,257.33  | 397.58                  |
| 26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....                                      | 1,204.40  | 397.58                  |
| <b>26 56 21 00-0028</b>   | <b>Low Pressure Sodium, Pole Mounted</b> <small>(26 56 21 00-0015)</small>  |                         |
| 26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed .....  | 757.81  | 216.29                  |
| 26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed .....   | 872.50  | 318.06                  |
| 26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed .....   | 998.39  | 318.06                  |
| <b>26 56 21 00-0032</b>   | <b>Metal Halide, Area Fixtures</b> <small>(26 56 21)</small>  |                         |
| <b>26 56 21 00-0033</b>   | <b>Metal Halide, Pole Mount, Area Fixtures</b> <small>(26 56 21 00-0032)</small>                                      |                         |
| Note: Includes pulse start ballast.   |   |                         |
| 26 56 21 00-0034 EA 150 Watt, Metal Halide Area Fixture, Pole Mount .....   | 1,221.44  | 209.30                  |
| 26 56 21 00-0035 EA 175 Watt, Metal Halide Area Fixture, Pole Mount .....   | 1,340.56  | 230.22                  |
| 26 56 21 00-0036 EA 250 Watt, Metal Halide Area Fixture, Pole Mount .....   | 1,481.51  | 251.15                  |
| 26 56 21 00-0037 EA 400 Watt, Metal Halide Area Fixture, Pole Mount .....   | 1,575.03  | 293.01                  |
| <b>26 56 21 00-0038</b>   | <b>High Pressure Sodium, Area Fixtures</b> <small>(26 56 21)</small>  |                         |
| <b>26 56 21 00-0039</b>   | <b>Pole Mount, High Pressure Sodium Area Fixtures</b> <small>(26 56 21 00-0038)</small>                               |                         |
| 26 56 21 00-0040 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount .....   | 1,012.82  | 167.43                  |
| 26 56 21 00-0041 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount .....   | 1,110.35  | 209.30                  |
| 26 56 21 00-0042 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount .....   | 1,211.59  | 251.15                  |
| 26 56 21 00-0043 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount .....   | 1,285.79  | 293.01                  |
| <b>26 56 21 00-0044</b>   | <b>Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21)</small>                                   |                         |
| <b>26 56 21 00-0045</b>   | <b>Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21 00-0044)</small>             |                         |
| 26 56 21 00-0046 EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....                      | 708.66  | 318.06                  |
| 26 56 21 00-0047 EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....                      | 797.56  | 357.82                  |
| 26 56 21 00-0048 EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....                      | 937.05  | 397.58                  |
| 26 56 21 00-0049 EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....                    | 1,221.09  | 465.96                  |
| <b>26 56 21 00-0050</b>   | <b>High Pressure Sodium, Surface Mounted, Rectangular Exterior Area<br/>Fixture</b> <small>(26 56 21 00-0044)</small> |                         |
| 26 56 21 00-0051 EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture<br>(LumaPro) .....  | 664.62  | 271.94                  |
| 26 56 21 00-0052 EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture<br>(LumaPro) ..... | 718.17  | 289.44                  |
| 26 56 21 00-0053 EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture<br>(LumaPro) ..... | 770.90  | 305.34                  |
| 26 56 21 00-0054 EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....              | 797.75  | 318.06                  |
| 26 56 21 00-0055 EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....              | 880.84  | 357.82                  |
| 26 56 21 00-0056 EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....              | 949.67  | 397.58                  |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Exterior Lighting | 26 56     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 21 00-0057 EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....              | 1,323.69                  | 465.96                  |
| <b>26 56 21 00-0058 Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <sup>(26 56 21 00-0058 21)</sup></b>                    |                           |                         |
| <b>26 56 21 00-0059 High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <sup>(26 56 21 00-0059)</sup></b> |                           |                         |
| Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.  |                           |                         |
| 26 56 21 00-0060 EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                      | 882.05                    | 214.69                  |
| 26 56 21 00-0061 EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                      | 918.01                    | 238.55                  |
| 26 56 21 00-0062 EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                      | 984.66                    | 271.94                  |
| 26 56 21 00-0063 EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                     | 1,013.36                  | 289.44                  |
| 26 56 21 00-0064 EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                     | 1,043.43                  | 305.34                  |
| 26 56 21 00-0065 EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                     | 1,092.94                  | 318.06                  |
| 26 56 21 00-0066 EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                     | 1,196.88                  | 357.82                  |
| 26 56 21 00-0067 EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                     | 1,444.56                  | 397.58                  |
| <b>26 56 21 00-0068 Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <sup>(26 56 21 00-0068)</sup></b>         |                           |                         |
| Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.  |                           |                         |
| 26 56 21 00-0069 EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                              | 971.23                    | 238.55                  |
| 26 56 21 00-0070 EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                              | 1,029.83                  | 271.94                  |
| 26 56 21 00-0071 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                             | 1,066.02                  | 289.44                  |
| 26 56 21 00-0072 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                             | 1,112.35                  | 305.34                  |
| 26 56 21 00-0073 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                             | 1,138.18                  | 318.06                  |
| 26 56 21 00-0074 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                             | 1,244.47                  | 357.82                  |
| 26 56 21 00-0075 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....                             | 1,570.93                  | 397.58                  |
| <b>26 56 21 00-0076 Wall Packs <sup>(26 56 21 00-0076)</sup></b>  |                           |                         |
| <b>26 56 21 00-0077 Non-Cutoff, Polycarbonate Lens, Mini Wall Packs <sup>(26 56 21 00-0077)</sup></b>   |                           |                         |
| Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.   |                           |                         |
| 26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....   | 413.05                    | 76.91                   |
| 26 56 21 00-0079 EA 50 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 439.84                    | 76.91                   |
| 26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 439.84                    | 76.91                   |
| 26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 569.71                    | 76.91                   |
| <b>26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <sup>(26 56 21 00-0082)</sup></b>  |                           |                         |
| Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.   |                           |                         |
| 26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 779.33                    | 76.91                   |
| 26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....   | 788.97                    | 76.91                   |
| 26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....   | 797.30                    | 76.91                   |
| 26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 782.11                    | 76.91                   |
| 26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....   | 719.61                    | 76.91                   |
| 26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 685.28                    | 76.91                   |
| <b>26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs <sup>(26 56 21 00-0089)</sup></b>   |                           |                         |
| Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.  |                           |                         |
| 26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 818.88                    | 76.91                   |
| 26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 827.66                    | 76.91                   |
| 26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack .....   | 812.48                    | 76.91                   |
| 26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack .....  | 824.70                    | 76.91                   |
| 26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack .....   | 824.70                    | 76.91                   |
| <b>26 56 21 00-0095 Non-Cutoff, Borosilicate Glass Lens, Small Wall Packs <sup>(26 56 21 00-0095)</sup></b>                                       |                           |                         |
| Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.  |                           |                         |
| 26 56 21 00-0096 EA 70 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....  | 794.81                    | 102.45                  |
| 26 56 21 00-0097 EA 100 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....   | 794.81                    | 102.45                  |
| 26 56 21 00-0098 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....   | 747.78                    | 102.45                  |
| 26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....                                      | 765.81                    | 102.45                  |
| 26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....                                     | 765.81                    | 102.45                  |
| 26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....                                     | 713.65                    | 102.45                  |
| <b>26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs <sup>(26 56 21 00-0102)</sup></b>   |                           |                         |
| Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.  |                           |                         |
| 26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....  | 822.68                    | 102.45                  |
| 26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....   | 822.68                    | 102.45                  |
| 26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....   | 822.68                    | 102.45                  |
| 26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....  | 795.02                    | 102.45                  |
| 26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....   | 795.02                    | 102.45                  |
| 26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....   | 795.02                    | 102.45                  |
| <b>26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs <sup>(26 56 21 00-0109)</sup></b>  |                           |                         |
| Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.                                  |                           |                         |





| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack .....  | 1,047.81                  | 102.45                  |
| <b>26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs</b> (26 56 21 00-0076)<br>Note: Aluminum body and reflector. Lithonia TWR2.  |                           |                         |
| 26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....  | 1,001.13                  | 126.90                  |
| Note: 9-1/4" x 17-7/8" x 9-3/8".  |                           |                         |
| 26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....  | 1,064.90                  | 126.90                  |
| Note: 9-1/4" x 17-7/8" x 12-1/2".   |                           |                         |
| 26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....  | 1,140.92                  | 126.90                  |
| Note: 9-1/4" x 17-7/8" x 9-3/8".  |                           |                         |
| 26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....  | 1,161.85                  | 126.90                  |
| Note: 9-1/4" x 17-7/8" x 12-1/2".   |                           |                         |
| <b>26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs</b> (26 56 21 00-0076)<br>Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.  |                           |                         |
| 26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack .....  | 1,083.15                  | 126.90                  |
| 26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack .....  | 1,154.80                  | 126.90                  |
| <b>26 56 21 00-0119 Non-Cutoff, Polycarbonate Lens, Large Wall Packs</b> (26 56 21 00-0076)<br>Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.                                 |                           |                         |
| 26 56 21 00-0120 EA 100 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....  | 1,017.91                  | 153.82                  |
| 26 56 21 00-0121 EA 175 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....  | 942.02                    | 153.82                  |
| 26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....   | 1,000.35                  | 153.82                  |
| 26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....  | 1,006.15                  | 153.82                  |
| 26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....  | 1,012.24                  | 153.82                  |
| <b>26 56 21 00-0125 Non-Cutoff, Borosilicate Glass Lens, Large Wall Packs</b> (26 56 21 00-0076)<br>Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.  |                           |                         |
| 26 56 21 00-0126 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....   | 1,017.93                  | 153.82                  |
| 26 56 21 00-0127 EA 250 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....   | 1,043.25                  | 153.82                  |
| 26 56 21 00-0128 EA 400 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....   | 1,119.13                  | 153.82                  |
| 26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....   | 1,068.55                  | 153.82                  |
| 26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....   | 1,093.87                  | 153.82                  |
| 26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....   | 1,144.41                  | 153.82                  |
| <b>26 56 21 00-0132 Semi Cutoff, Induction Wall Packs</b> (26 56 21 00-0076)  |                           |                         |
| <b>26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®)</b> (26 56 21 00-0132)<br>Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors. |                           |                         |
| 26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70) .....  | 1,256.13                  | 143.39                  |
| 26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80) .....  | 1,283.80                  | 151.82                  |
| 26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100) .....  | 1,311.48                  | 160.24                  |
| 26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120) .....  | 1,457.96                  | 168.68                  |
| <b>26 56 21 00-0138 Non-Cutoff, Polycarbonate Lens, Small Wall Packs</b> (26 56 21 00-0076)   |                           |                         |
| 26 56 21 00-0139 EA 15 Watt, Exterior, Non-Cutoff Small Wall Pack (Sylvania 60066-SMWLPK1N/015UNV740/NC/BZ/P) .....   | 424.85                    | 76.91                   |
| <b>26 56 21 00-0140 Induction, Roadway Lighting</b> (26 56 21)  |                           |                         |
| <b>26 56 21 00-0141 Induction Roadway Lighting (US Lighting Tech)</b> (26 56 21 00-0140)<br>Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.                                       |                           |                         |
| 26 56 21 00-0142 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....   | 757.79                    | 253.02                  |
| 26 56 21 00-0143 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....   | 824.02                    | 261.46                  |
| 26 56 21 00-0144 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....  | 857.76                    | 278.33                  |
| 26 56 21 00-0145 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....  | 891.49                    | 295.20                  |
| 26 56 21 00-0146 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....  | 1,021.89                  | 303.63                  |
| 26 56 21 00-0147 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511) .....  | 1,042.71                  | 312.07                  |
| 26 56 21 00-0148 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....  | 716.33                    | 253.02                  |
| 26 56 21 00-0149 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....  | 788.48                    | 261.46                  |
| 26 56 21 00-0150 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....   | 822.22                    | 278.33                  |
| 26 56 21 00-0151 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512) .....   | 855.95                    | 295.20                  |
| <b>26 56 21 00-0152 Induction, Area Fixtures</b> (26 56 21)   |                           |                         |
| <b>26 56 21 00-0153 Post Top, Induction Area Fixtures</b> (26 56 21 00-0152)  |                           |                         |
| <b>26 56 21 00-0154 Post Top, Induction Area Fixtures (US Lighting Tech)</b> (26 56 21 00-0153)<br>Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.                      |                           |                         |
| 26 56 21 00-0155 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....   | 820.27                    | 231.94                  |
| 26 56 21 00-0156 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....   | 877.53                    | 231.94                  |
| 26 56 21 00-0157 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....  | 877.53                    | 231.94                  |
| 26 56 21 00-0158 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571) .....  | 877.53                    | 231.94                  |



|                   |           |           |
|-------------------|-----------|-----------|
| <b>Electrical</b> | <b>26</b> | <b>26</b> |
| Lighting          | 26 50     |           |
| Exterior Lighting | 26 56     |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|------------------------------|---|-------------------------|
| 26 56 21 00-0159             | Surface Mount, Induction Parking Structure Fixtures <small>(26 56 21 00-0152)</small>   |                         |
| 26 56 21 00-0160             | Surface Mount, Induction Parking Structure Fixtures (Everlast®) <small>(26 56 21 00-0159)</small>                                   |                         |
| 26 56 21 00-0161 EA          | 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                              | 745.38 210.85           |
| 26 56 21 00-0162 EA          | 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                              | 787.39 215.07           |
| 26 56 21 00-0163 EA          | 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                              | 799.77 219.29           |
| 26 56 21 00-0164 EA          | 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                              | 812.16 223.51           |
| 26 56 21 00-0165 EA          | 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                             | 824.54 227.72           |
| 26 56 21 00-0166 EA          | 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                             | 840.87 231.94           |
| 26 56 21 00-0167 EA          | 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                  | 857.03 219.29           |
| 26 56 21 00-0168 EA          | 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                  | 869.42 223.51           |
| 26 56 21 00-0169 EA          | 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                 | 881.79 227.72           |
| 26 56 21 00-0170 EA          | 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....                 | 914.91 231.94           |
| 26 56 21 00-0171             | Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0152)</small>   |                         |
| 26 56 21 00-0172             | Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0171)</small>                                   |                         |
|                              | Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors. |                         |
| 26 56 21 00-0173 EA          | 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70).....   | 1,310.14 143.39         |
| 26 56 21 00-0174 EA          | 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80).....   | 1,348.61 151.82         |
| 26 56 21 00-0175 EA          | 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100).....   | 1,387.08 160.24         |

**END OF SECTION 26**

|    |           |                   |
|----|-----------|-------------------|
| 26 | <b>26</b> | <b>Electrical</b> |
|    | 26 50     | Lighting          |
|    | 26 56     | Exterior Lighting |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

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|  | MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|------------------------------|---------------------------|-------------------------|
|--|------------------------------|---------------------------|-------------------------|

### 33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

#### 33 01 Operation and Maintenance of Utilities <sup>(33)</sup>

##### 33 01 10 Operation and Maintenance of Water Utilities <sup>(33 01)</sup>

##### 33 01 10 54 Cleaning of Water Utility Piping <sup>(33 01 10)</sup>

See CSI section 33 01 30 41-0012 for cleaning of water lines.

##### 33 01 10 58 Disinfection of Water Utility Piping Systems <sup>(33 01 10)</sup>

##### 33 01 10 58-0001 Water Main Disinfection/Sterilization <sup>(33 01 10 58)</sup>

Note: Gas chlorination. Continuous or plug method.

|                  |   |        |  |
|------------------|---|--------|--|
| 33 01 10 58-0002 | EA Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method ..... | 993.06 |  |
| 33 01 10 58-0003 | EA Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method .....          | 496.53 |  |
| 33 01 10 58-0004 | LF Up To 4" Diameter Pipe Water Main Disinfection/Sterilization .....   | 0.37   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.02  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.04  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.06  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.07  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.09  |  |
| 33 01 10 58-0005 | LF 6" Diameter Pipe Water Main Disinfection/Sterilization .....   | 0.57   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.03  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.06  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.09  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.11  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.14  |  |
| 33 01 10 58-0006 | LF 8" Diameter Pipe Water Main Disinfection/Sterilization .....   | 0.75   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.04  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.08  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.11  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.15  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.19  |  |
| 33 01 10 58-0007 | LF 10" Diameter Pipe Water Main Disinfection/Sterilization .....  | 0.87   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.04  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.09  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.13  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.17  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.22  |  |
| 33 01 10 58-0008 | LF 12" Diameter Pipe Water Main Disinfection/Sterilization .....  | 1.14   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.06  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.11  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.17  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.23  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.29  |  |
| 33 01 10 58-0009 | LF >12" To 16" Diameter Pipe Water Main Disinfection/Sterilization .....                                      | 1.30   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.07  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.13  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.20  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.26  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.33  |  |
| 33 01 10 58-0010 | LF >16" To 24" Diameter Pipe Water Main Disinfection/Sterilization .....                                      | 1.49   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.07  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.15  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.22  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.30  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.37  |  |
| 33 01 10 58-0011 | LF >24" To 30" Diameter Pipe Water Main Disinfection/Sterilization .....                                      | 1.76   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.09  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.18  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.26  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.35  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.44  |  |
| 33 01 10 58-0012 | LF >30" To 42" Diameter Pipe Water Main Disinfection/Sterilization .....                                      | 2.26   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.11  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.23  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.34  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.45  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.57  |  |
| 33 01 10 58-0013 | LF >42" To 60" Diameter Pipe Water Main Disinfection/Sterilization .....                                      | 3.31   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.17  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.33  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.50  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.66  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -0.83  |  |
| 33 01 10 58-0014 | LF >60" Diameter Pipe Water Main Disinfection/Sterilization .....   | 4.59   |  |
|                  | <i>For &gt;250 To 500, Deduct</i>   | -0.23  |  |
|                  | <i>For &gt;500 To 1,000, Deduct</i>   | -0.46  |  |
|                  | <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.69  |  |
|                  | <i>For &gt;2,000 To 5,000, Deduct</i>   | -0.92  |  |
|                  | <i>For &gt;5,000, Deduct</i>  | -1.15  |  |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**33 01 10 71 Relining Water Utilities Pipelines** (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

|                  |  |   |          |
|------------------|--|---|----------|
| 33 01 10 71-0001 | Relining Underground Water Pipelines   | <small>(33 01 10 71)</small>  |          |
|                  | Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups. |   |          |
| 33 01 10 71-0002 | Relining Underground Water Pipelines Set-Up And Reinsertion  | <small>(33 01 10 71-0001)</small>   |          |
| 33 01 10 71-0003 | EA   | Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines | 5,621.72 |
| 33 01 10 71-0004 | EA   | Move And Reset Up At Different Access/Location                                      | 2,248.68 |
| 33 01 10 71-0005 | Lining Pipe With Cement  | <small>(33 01 10 71-0001)</small>   |          |
| 33 01 10 71-0006 | LF   | Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement                                   | 76.15    |
|                  |  | For 3/16" Thickness, Add  | 1.69     |
|                  |  | For 1/4" Thickness, Add   | 3.38     |
| 33 01 10 71-0007 | LF   | >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement                              | 67.94    |
|                  |  | For 3/16" Thickness, Add  | 1.69     |
|                  |  | For 1/4" Thickness, Add   | 3.38     |
| 33 01 10 71-0008 | LF   | >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement                            | 56.93    |
|                  |  | For 3/16" Thickness, Add  | 1.69     |
|                  |  | For 1/4" Thickness, Add   | 3.38     |
| 33 01 10 71-0009 | LF   | >5,000', 4" Pipe, 1/8" Pipe Lining With Cement                                      | 43.10    |
|                  |  | For 3/16" Thickness, Add  | 1.69     |
|                  |  | For 1/4" Thickness, Add   | 3.38     |
| 33 01 10 71-0010 | LF   | Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement                                   | 79.71    |
|                  |  | For 3/16" Thickness, Add  | 2.53     |
|                  |  | For 1/4" Thickness, Add   | 5.05     |
| 33 01 10 71-0011 | LF   | >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement                              | 71.18    |
|                  |  | For 3/16" Thickness, Add  | 2.53     |
|                  |  | For 1/4" Thickness, Add   | 5.05     |
| 33 01 10 71-0012 | LF   | >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement                            | 59.78    |
|                  |  | For 3/16" Thickness, Add  | 2.53     |
|                  |  | For 1/4" Thickness, Add   | 5.05     |
| 33 01 10 71-0013 | LF   | >5,000', 6" Pipe, 1/8" Pipe Lining With Cement                                      | 45.78    |
|                  |  | For 3/16" Thickness, Add  | 2.53     |
|                  |  | For 1/4" Thickness, Add   | 5.05     |
| 33 01 10 71-0014 | LF   | Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement                                   | 83.14    |
|                  |  | For 3/16" Thickness, Add  | 3.36     |
|                  |  | For 1/4" Thickness, Add   | 6.72     |
| 33 01 10 71-0015 | LF   | >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement                              | 74.42    |
|                  |  | For 3/16" Thickness, Add  | 3.36     |
|                  |  | For 1/4" Thickness, Add   | 6.72     |
| 33 01 10 71-0016 | LF   | >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement                            | 62.65    |
|                  |  | For 3/16" Thickness, Add  | 3.36     |
|                  |  | For 1/4" Thickness, Add   | 6.72     |
| 33 01 10 71-0017 | LF   | >5,000', 8" Pipe, 1/8" Pipe Lining With Cement                                      | 48.45    |
|                  |  | For 3/16" Thickness, Add  | 3.36     |
|                  |  | For 1/4" Thickness, Add   | 6.72     |
| 33 01 10 71-0018 | LF   | Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement                                  | 85.91    |
|                  |  | For 3/16" Thickness, Add  | 4.22     |
|                  |  | For 1/4" Thickness, Add   | 8.43     |
| 33 01 10 71-0019 | LF   | >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement                             | 77.06    |
|                  |  | For 3/16" Thickness, Add  | 4.22     |
|                  |  | For 1/4" Thickness, Add   | 8.43     |
| 33 01 10 71-0020 | LF   | >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement                           | 65.12    |
|                  |  | For 3/16" Thickness, Add  | 4.22     |
|                  |  | For 1/4" Thickness, Add   | 8.43     |
| 33 01 10 71-0021 | LF   | >5,000', 10" Pipe, 1/8" Pipe Lining With Cement                                     | 51.17    |
|                  |  | For 3/16" Thickness, Add  | 4.22     |
|                  |  | For 1/4" Thickness, Add   | 8.43     |
| 33 01 10 71-0022 | LF   | Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement                                  | 93.18    |
|                  |  | For 3/16" Thickness, Add  | 5.05     |
|                  |  | For 1/4" Thickness, Add   | 10.10    |
| 33 01 10 71-0023 | LF   | >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement                             | 83.77    |
|                  |  | For 3/16" Thickness, Add  | 5.05     |
|                  |  | For 1/4" Thickness, Add   | 10.10    |
| 33 01 10 71-0024 | LF   | >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement                           | 71.06    |
|                  |  | For 3/16" Thickness, Add  | 5.05     |
|                  |  | For 1/4" Thickness, Add   | 10.10    |
| 33 01 10 71-0025 | LF   | >5,000', 12" Pipe, 1/8" Pipe Lining With Cement                                     | 55.98    |
|                  |  | For 3/16" Thickness, Add  | 5.05     |
|                  |  | For 1/4" Thickness, Add   | 10.10    |
| 33 01 10 71-0026 | LF   | Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement                         | 102.45   |
|                  |  | For 1/4" Thickness, Add   | 5.62     |
|                  |  | For 5/16" Thickness, Add  | 11.24    |
| 33 01 10 71-0027 | LF   | >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement                    | 92.69    |
|                  |  | For 1/4" Thickness, Add   | 5.62     |
|                  |  | For 5/16" Thickness, Add  | 11.24    |
| 33 01 10 71-0028 | LF   | >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement                  | 79.45    |
|                  |  | For 1/4" Thickness, Add   | 5.62     |
|                  |  | For 5/16" Thickness, Add  | 11.24    |
| 33 01 10 71-0029 | LF   | >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement                            | 65.00    |
|                  |  | For 1/4" Thickness, Add   | 5.62     |
|                  |  | For 5/16" Thickness, Add  | 11.24    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....        | 108.32                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 6.74                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 13.47                     |                         |
| 33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....   | 98.25                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 6.74                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 13.47                     |                         |
| 33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement..... | 84.56                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 6.74                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 13.47                     |                         |
| 33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....           | 70.86                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 6.74                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 13.47                     |                         |
| 33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....        | 115.33                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 7.86                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 15.72                     |                         |
| 33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....   | 104.91                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 7.86                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 15.72                     |                         |
| 33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement..... | 90.57                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 7.86                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 15.72                     |                         |
| 33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....           | 77.75                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 7.86                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 15.72                     |                         |
| 33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement .....               | 122.48                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 8.99                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 17.97                     |                         |
| 33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement .....          | 111.63                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 8.99                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 17.97                     |                         |
| 33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement .....        | 96.84                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 8.99                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 17.97                     |                         |
| 33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement .....                  | 84.91                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 8.99                      |                         |
| <i>For 5/16" Thickness, Add</i>   | 17.97                     |                         |
| 33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement .....               | 132.85                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 11.23                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 22.46                     |                         |
| 33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement .....          | 121.39                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 11.23                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 22.46                     |                         |
| 33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement .....        | 105.71                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 11.23                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 22.46                     |                         |
| 33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement .....                  | 93.64                     |                         |
| <i>For 1/4" Thickness, Add</i>  | 11.23                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 22.46                     |                         |
| 33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement .....               | 143.13                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 13.48                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 26.96                     |                         |
| 33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement .....           | 131.15                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 13.48                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 26.96                     |                         |
| 33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement .....        | 114.60                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 13.48                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 26.96                     |                         |
| 33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement .....                  | 102.40                    |                         |
| <i>For 1/4" Thickness, Add</i>  | 13.48                     |                         |
| <i>For 5/16" Thickness, Add</i>   | 26.96                     |                         |
| 33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement .....                | 182.99                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 35.38                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 53.06                     |                         |
| 33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement .....           | 169.93                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 35.38                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 53.06                     |                         |
| 33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement .....         | 151.95                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 35.38                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 53.06                     |                         |
| 33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....                    | 139.38                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 35.38                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 53.06                     |                         |
| 33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement .....                | 202.52                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 40.43                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 60.64                     |                         |
| 33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement .....           | 188.55                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 40.43                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 60.64                     |                         |
| 33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement .....         | 169.21                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 40.43                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 60.64                     |                         |
| 33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....                    | 156.39                    |                         |
| <i>For 3/8" Thickness, Add</i>  | 40.43                     |                         |
| <i>For 7/16" Thickness, Add</i>   | 60.64                     |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement .....        | 214.89                    |                         |
| For 3/8" Thickness, Add   | 45.48                     |                         |
| For 7/16" Thickness, Add  | 68.22                     |                         |
| 33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement .....   | 200.63                    |                         |
| For 3/8" Thickness, Add   | 45.48                     |                         |
| For 7/16" Thickness, Add  | 68.22                     |                         |
| 33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement ..... | 180.83                    |                         |
| For 3/8" Thickness, Add   | 45.48                     |                         |
| For 7/16" Thickness, Add  | 68.22                     |                         |
| 33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement .....           | 168.51                    |                         |
| For 3/8" Thickness, Add   | 45.48                     |                         |
| For 7/16" Thickness, Add  | 68.22                     |                         |
| 33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement .....        | 227.28                    |                         |
| For 3/8" Thickness, Add   | 50.55                     |                         |
| For 7/16" Thickness, Add  | 75.82                     |                         |
| 33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement .....   | 212.76                    |                         |
| For 3/8" Thickness, Add   | 50.55                     |                         |
| For 7/16" Thickness, Add  | 75.82                     |                         |
| 33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement ..... | 192.59                    |                         |
| For 3/8" Thickness, Add   | 50.55                     |                         |
| For 7/16" Thickness, Add  | 75.82                     |                         |
| 33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement .....           | 180.65                    |                         |
| For 3/8" Thickness, Add   | 50.55                     |                         |
| For 7/16" Thickness, Add  | 75.82                     |                         |
| 33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement .....        | 240.02                    |                         |
| For 3/8" Thickness, Add   | 55.60                     |                         |
| For 7/16" Thickness, Add  | 83.39                     |                         |
| 33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement .....   | 225.19                    |                         |
| For 3/8" Thickness, Add   | 55.60                     |                         |
| For 7/16" Thickness, Add  | 83.39                     |                         |
| 33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement ..... | 204.71                    |                         |
| For 3/8" Thickness, Add   | 55.60                     |                         |
| For 7/16" Thickness, Add  | 83.39                     |                         |
| 33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement .....           | 193.64                    |                         |
| For 3/8" Thickness, Add   | 55.60                     |                         |
| For 7/16" Thickness, Add  | 83.39                     |                         |
| 33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement .....        | 253.26                    |                         |
| For 3/8" Thickness, Add   | 60.65                     |                         |
| For 7/16" Thickness, Add  | 90.97                     |                         |
| 33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement .....   | 238.18                    |                         |
| For 3/8" Thickness, Add   | 60.65                     |                         |
| For 7/16" Thickness, Add  | 90.97                     |                         |
| 33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement ..... | 217.19                    |                         |
| For 3/8" Thickness, Add   | 60.65                     |                         |
| For 7/16" Thickness, Add  | 90.97                     |                         |
| 33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement .....           | 206.76                    |                         |
| For 3/8" Thickness, Add   | 60.65                     |                         |
| For 7/16" Thickness, Add  | 90.97                     |                         |

**33 01 30 Operation and Maintenance of Sewer Utilities** (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

**33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts** (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

|   |          |  |
|---|----------|--|
| 33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert .....                    | 965.07   |  |
| Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet. |          |  |
| 33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....                         | 1,930.13 |  |
| Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger). |          |  |
| 33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert .....                             | 2,895.20 |  |
| 33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert .....                    | 482.53   |  |
| 33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert .....                    | 965.07   |  |

**33 01 30 11-0008 Video Camera Planning And Analysis Inspection** (33 01 30 11-0001)

Note: For pipe interior and culverts.

|   |       |  |
|---|-------|--|
| 33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase .....    | 2.45  |  |
| Note: CCTV inspection of pipe interior.   |       |  |
| For >500 To 1,000, Deduct   | -0.25 |  |
| For >1,000 To 5,000, Deduct   | -0.61 |  |
| For >5,000, Deduct  | -0.86 |  |
| 33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....   | 3.27  |  |
| Note: CCTV inspection of pipe interior.   |       |  |
| For >500 To 1,000, Deduct   | -0.33 |  |
| For >1,000 To 5,000, Deduct   | -0.82 |  |
| For >5,000, Deduct  | -1.14 |  |
| 33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase ..... | 4.08  |  |
| Note: CCTV inspection of pipe interior.   |       |  |
| For >500 To 1,000, Deduct   | -0.41 |  |
| For >1,000 To 5,000, Deduct   | -1.02 |  |
| For >5,000, Deduct  | -1.43 |  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....                           | 5.44                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.54                     |                         |
| For >1,000 To 5,000, Deduct  | -1.36                     |                         |
| For >5,000, Deduct   | -1.90                     |                         |
| 33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....                           | 7.64                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.76                     |                         |
| For >1,000 To 5,000, Deduct  | -1.91                     |                         |
| For >5,000, Deduct   | -2.67                     |                         |
| 33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....                           | 10.20                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -1.02                     |                         |
| For >1,000 To 5,000, Deduct  | -2.55                     |                         |
| For >5,000, Deduct   | -3.57                     |                         |
| 33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....                           | 14.40                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -1.44                     |                         |
| For >1,000 To 5,000, Deduct  | -3.60                     |                         |
| For >5,000, Deduct   | -5.04                     |                         |
| 33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....                           | 20.39                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -2.04                     |                         |
| For >1,000 To 5,000, Deduct  | -5.10                     |                         |
| For >5,000, Deduct   | -7.14                     |                         |
| <b>33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts</b> <small>(33 01 30 11-0001)</small>  |                           |                         |
| 33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                            | 3.62                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.36                     |                         |
| For >1,000 To 5,000, Deduct  | -0.91                     |                         |
| For >5,000, Deduct   | -1.27                     |                         |
| 33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                          | 4.82                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.48                     |                         |
| For >1,000 To 5,000, Deduct  | -1.21                     |                         |
| For >5,000, Deduct   | -1.69                     |                         |
| 33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                         | 6.04                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.60                     |                         |
| For >1,000 To 5,000, Deduct  | -1.51                     |                         |
| For >5,000, Deduct   | -2.11                     |                         |
| 33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                         | 8.04                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.80                     |                         |
| For >1,000 To 5,000, Deduct  | -2.01                     |                         |
| For >5,000, Deduct   | -2.81                     |                         |
| 33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                         | 11.31                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -1.13                     |                         |
| For >1,000 To 5,000, Deduct  | -2.83                     |                         |
| For >5,000, Deduct   | -3.96                     |                         |
| 33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                         | 15.07                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -1.51                     |                         |
| For >1,000 To 5,000, Deduct  | -3.77                     |                         |
| For >5,000, Deduct   | -5.27                     |                         |
| 33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                         | 21.29                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -2.13                     |                         |
| For >1,000 To 5,000, Deduct  | -5.32                     |                         |
| For >5,000, Deduct   | -7.45                     |                         |
| 33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....                         | 30.16                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -3.02                     |                         |
| For >1,000 To 5,000, Deduct  | -7.54                     |                         |
| For >5,000, Deduct   | -10.56                    |                         |
| <b>33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts</b> <small>(33 01 30 11-0001)</small> |                           |                         |
| 33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....                            | 2.58                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.26                     |                         |
| For >1,000 To 5,000, Deduct  | -0.65                     |                         |
| For >5,000, Deduct   | -0.90                     |                         |
| 33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....                          | 3.44                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.34                     |                         |
| For >1,000 To 5,000, Deduct  | -0.86                     |                         |
| For >5,000, Deduct   | -1.20                     |                         |
| 33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....                         | 4.31                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.43                     |                         |
| For >1,000 To 5,000, Deduct  | -1.08                     |                         |
| For >5,000, Deduct   | -1.51                     |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....   | 5.74                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.57                     |                         |
| For >1,000 To 5,000, Deduct  | -1.44                     |                         |
| For >5,000, Deduct   | -2.01                     |                         |
| 33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....   | 8.08                      |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -0.81                     |                         |
| For >1,000 To 5,000, Deduct  | -2.02                     |                         |
| For >5,000, Deduct   | -2.83                     |                         |
| 33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....   | 10.77                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -1.08                     |                         |
| For >1,000 To 5,000, Deduct  | -2.69                     |                         |
| For >5,000, Deduct   | -3.77                     |                         |
| 33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....   | 15.21                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -1.52                     |                         |
| For >1,000 To 5,000, Deduct  | -3.80                     |                         |
| For >5,000, Deduct   | -5.32                     |                         |
| 33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....   | 21.54                     |                         |
| Note: CCTV inspection of pipe interior.  |                           |                         |
| For >500 To 1,000, Deduct  | -2.15                     |                         |
| For >1,000 To 5,000, Deduct  | -5.39                     |                         |
| For >5,000, Deduct   | -7.54                     |                         |
| <b>33 01 30 23 Pipe Bursting (33 01 30)</b>  |                           |                         |
| <b>33 01 30 23-0001 Pipe Bursting (33 01 30 23)</b>  |                           |                         |
| Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control.  |                           |                         |
| <b>33 01 30 23-0002 Manhole Chipping (33 01 30 23-0001)</b>  |                           |                         |
| Note: For use at manholes to open holes for pipe bursting head.  |                           |                         |
| 33 01 30 23-0003 EA 6" To 15" Diameter, Manhole Chipping.....  | 414.77                    |                         |
| 33 01 30 23-0004 EA >15" To 24" Diameter, Manhole Chipping.....  | 486.94                    |                         |
| 33 01 30 23-0005 EA >24" To 36" Diameter, Manhole Chipping.....  | 608.64                    |                         |
| <b>33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001)</b>   |                           |                         |
| Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0051 for PE piping. |                           |                         |
| <b>33 01 30 23-0007 Pipe Bursting Equipment Set-up (33 01 30 23-0006)</b>  |                           |                         |
| 33 01 30 23-0008 EA Initial Set-up And Final Equipment Removal For Up To 12" Underground Pipelines For Pipe Bursting Equipment.....  | 8,070.06                  |                         |
| 33 01 30 23-0009 EA Initial Set-up And Final Equipment Removal For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment.....   | 12,105.10                 |                         |
| 33 01 30 23-0010 EA Initial Set-up And Final Equipment Removal For > 24" To 36" Underground Pipelines For Pipe Bursting Equipment.....   | 20,175.16                 |                         |
| 33 01 30 23-0011 EA Move And Reset Up At Different Access/Location For Up To 12" Underground Pipelines For Pipe Bursting Equipment.....  | 3,026.28                  |                         |
| 33 01 30 23-0012 EA Move And Reset Up At Different Access/Location For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment.....   | 4,539.41                  |                         |
| 33 01 30 23-0013 EA Move And Reset Up At Different Access/Location For > 2" To 36" Underground Pipelines For Pipe Bursting Equipment.....  | 7,565.68                  |                         |
| 33 01 30 23-0014 EA Set Up/Move Pipe Bursting Equipment For Laterals.....  | 2,017.52                  |                         |
| <b>33 01 30 23-0015 Pneumatic Head Pipe Bursting (33 01 30 23-0006)</b>  |                           |                         |
| 33 01 30 23-0016 LF 4" Diameter, Pneumatic Head Pipe Bursting.....   | 27.96                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 2.29                      |                         |
| For >150 To 200, Add   | 1.38                      |                         |
| For >100 To 150, Add   | 2.75                      |                         |
| For >75 To 100, Add  | 4.13                      |                         |
| For >50 To 75, Add   | 5.50                      |                         |
| For >25 To 50, Add   | 7.34                      |                         |
| For Up To 25, Add  | 10.09                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 2.29                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 7.50                      |                         |
| 33 01 30 23-0017 LF 6" Diameter, Pneumatic Head Pipe Bursting.....   | 32.36                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 2.84                      |                         |
| For >150 To 200, Add   | 1.71                      |                         |
| For >100 To 150, Add   | 3.41                      |                         |
| For >75 To 100, Add  | 5.12                      |                         |
| For >50 To 75, Add   | 6.82                      |                         |
| For >25 To 50, Add   | 9.10                      |                         |
| For Up To 25, Add  | 12.51                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 2.84                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 8.95                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 23-0018 LF 8" Diameter, Pneumatic Head Pipe Bursting .....      | 36.50                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 3.36                      |                         |
| For >150 To 200, Add   | 2.02                      |                         |
| For >100 To 150, Add   | 4.03                      |                         |
| For >75 To 100, Add  | 6.05                      |                         |
| For >50 To 75, Add   | 8.06                      |                         |
| For >25 To 50, Add   | 10.75                     |                         |
| For Up To 25, Add  | 14.78                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 3.36                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 10.31                     |                         |
| 33 01 30 23-0019 LF 10" Diameter, Pneumatic Head Pipe Bursting .....     | 41.83                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 4.03                      |                         |
| For >150 To 200, Add   | 2.42                      |                         |
| For >100 To 150, Add   | 4.83                      |                         |
| For >75 To 100, Add  | 7.25                      |                         |
| For >50 To 75, Add   | 9.66                      |                         |
| For >25 To 50, Add   | 12.88                     |                         |
| For Up To 25, Add  | 17.72                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 4.03                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 12.07                     |                         |
| 33 01 30 23-0020 LF 12" Diameter, Pneumatic Head Pipe Bursting .....     | 47.98                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 4.80                      |                         |
| For >150 To 200, Add   | 2.88                      |                         |
| For >100 To 150, Add   | 5.75                      |                         |
| For >75 To 100, Add  | 8.63                      |                         |
| For >50 To 75, Add   | 11.51                     |                         |
| For >25 To 50, Add   | 15.34                     |                         |
| For Up To 25, Add  | 21.10                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 4.80                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 14.10                     |                         |
| 33 01 30 23-0021 LF 15" Diameter, Pneumatic Head Pipe Bursting .....     | 52.89                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 4.95                      |                         |
| For >150 To 200, Add   | 2.97                      |                         |
| For >100 To 150, Add   | 5.94                      |                         |
| For >75 To 100, Add  | 8.91                      |                         |
| For >50 To 75, Add   | 11.88                     |                         |
| For >25 To 50, Add   | 15.84                     |                         |
| For Up To 25, Add  | 21.77                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 4.95                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 15.06                     |                         |
| 33 01 30 23-0022 LF 18" Diameter, Pneumatic Head Pipe Bursting .....     | 59.06                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 5.72                      |                         |
| For >150 To 200, Add   | 3.43                      |                         |
| For >100 To 150, Add   | 6.86                      |                         |
| For >75 To 100, Add  | 10.30                     |                         |
| For >50 To 75, Add   | 13.73                     |                         |
| For >25 To 50, Add   | 18.30                     |                         |
| For Up To 25, Add  | 25.17                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 5.72                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 17.10                     |                         |
| 33 01 30 23-0023 LF 21"/22" Diameter, Pneumatic Head Pipe Bursting ..... | 74.40                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 6.81                      |                         |
| For >150 To 200, Add   | 4.08                      |                         |
| For >100 To 150, Add   | 8.17                      |                         |
| For >75 To 100, Add  | 12.25                     |                         |
| For >50 To 75, Add   | 16.33                     |                         |
| For >25 To 50, Add   | 21.78                     |                         |
| For Up To 25, Add  | 29.94                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 6.81                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 20.96                     |                         |
| 33 01 30 23-0024 LF 24" Diameter, Pneumatic Head Pipe Bursting .....     | 91.90                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 8.99                      |                         |
| For >150 To 200, Add   | 5.40                      |                         |
| For >100 To 150, Add   | 10.79                     |                         |
| For >75 To 100, Add  | 16.19                     |                         |
| For >50 To 75, Add   | 21.58                     |                         |
| For >25 To 50, Add   | 28.78                     |                         |
| For Up To 25, Add  | 39.57                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 8.99                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 26.73                     |                         |
| 33 01 30 23-0025 LF 30" Diameter, Pneumatic Head Pipe Bursting .....     | 101.23                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                    | 9.33                      |                         |
| For >150 To 200, Add   | 5.60                      |                         |
| For >100 To 150, Add   | 11.19                     |                         |
| For >75 To 100, Add  | 16.79                     |                         |
| For >50 To 75, Add   | 22.39                     |                         |
| For >25 To 50, Add   | 29.85                     |                         |
| For Up To 25, Add  | 41.05                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                          | 9.33                      |                         |
| For Bursting Ductile Iron Pipe, Add                                      | 28.62                     |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 23-0026 LF 36" Diameter, Pneumatic Head Pipe Bursting ..... | 130.79                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 13.02                     |                         |
| For >150 To 200, Add   | 7.81                      |                         |
| For >100 To 150, Add   | 15.63                     |                         |
| For >75 To 100, Add  | 23.44                     |                         |
| For >50 To 75, Add   | 31.26                     |                         |
| For >25 To 50, Add   | 41.68                     |                         |
| For Up To 25, Add  | 57.30                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 13.02                     |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 38.37                     |                         |
| <b>33 01 30 23-0027 Static Head Pipe Bursting (33 01 30 23-0006)</b> |                           |                         |
| 33 01 30 23-0028 LF 4" Diameter, Static Head Pipe Bursting .....     | 36.88                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 3.41                      |                         |
| For >150 To 200, Add   | 2.04                      |                         |
| For >100 To 150, Add   | 4.09                      |                         |
| For >75 To 100, Add  | 6.13                      |                         |
| For >50 To 75, Add   | 8.18                      |                         |
| For >25 To 50, Add   | 10.90                     |                         |
| For Up To 25, Add  | 14.99                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 3.41                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 10.44                     |                         |
| 33 01 30 23-0029 LF 6" Diameter, Static Head Pipe Bursting .....     | 41.32                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 3.96                      |                         |
| For >150 To 200, Add   | 2.38                      |                         |
| For >100 To 150, Add   | 4.76                      |                         |
| For >75 To 100, Add  | 7.13                      |                         |
| For >50 To 75, Add   | 9.51                      |                         |
| For >25 To 50, Add   | 12.68                     |                         |
| For Up To 25, Add  | 17.44                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 3.96                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 11.90                     |                         |
| 33 01 30 23-0030 LF 8" Diameter, Static Head Pipe Bursting .....     | 46.44                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 4.60                      |                         |
| For >150 To 200, Add   | 2.76                      |                         |
| For >100 To 150, Add   | 5.52                      |                         |
| For >75 To 100, Add  | 8.28                      |                         |
| For >50 To 75, Add   | 11.05                     |                         |
| For >25 To 50, Add   | 14.73                     |                         |
| For Up To 25, Add  | 20.25                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 4.60                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 13.59                     |                         |
| 33 01 30 23-0031 LF 10" Diameter, Static Head Pipe Bursting .....    | 53.11                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 5.44                      |                         |
| For >150 To 200, Add   | 3.26                      |                         |
| For >100 To 150, Add   | 6.52                      |                         |
| For >75 To 100, Add  | 9.79                      |                         |
| For >50 To 75, Add   | 13.05                     |                         |
| For >25 To 50, Add   | 17.40                     |                         |
| For Up To 25, Add  | 23.92                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 5.44                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 15.79                     |                         |
| 33 01 30 23-0032 LF 12" Diameter, Static Head Pipe Bursting .....    | 60.80                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 6.40                      |                         |
| For >150 To 200, Add   | 3.84                      |                         |
| For >100 To 150, Add   | 7.68                      |                         |
| For >75 To 100, Add  | 11.52                     |                         |
| For >50 To 75, Add   | 15.35                     |                         |
| For >25 To 50, Add   | 20.47                     |                         |
| For Up To 25, Add  | 28.15                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 6.40                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 18.33                     |                         |
| 33 01 30 23-0033 LF 15" Diameter, Static Head Pipe Bursting .....    | 69.45                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 7.02                      |                         |
| For >150 To 200, Add   | 4.21                      |                         |
| For >100 To 150, Add   | 8.42                      |                         |
| For >75 To 100, Add  | 12.63                     |                         |
| For >50 To 75, Add   | 16.85                     |                         |
| For >25 To 50, Add   | 22.46                     |                         |
| For Up To 25, Add  | 30.88                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 7.02                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 20.52                     |                         |
| 33 01 30 23-0034 LF 18" Diameter, Static Head Pipe Bursting .....    | 76.85                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                | 7.94                      |                         |
| For >150 To 200, Add   | 4.77                      |                         |
| For >100 To 150, Add   | 9.53                      |                         |
| For >75 To 100, Add  | 14.30                     |                         |
| For >50 To 75, Add   | 19.07                     |                         |
| For >25 To 50, Add   | 25.42                     |                         |
| For Up To 25, Add  | 34.95                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add                      | 7.94                      |                         |
| For Bursting Ductile Iron Pipe, Add                                  | 22.97                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 23-0035 LF 21" 22" Diameter, Static Head Pipe Bursting .....                  | 96.05                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 9.51                      |                         |
| For >150 To 200, Add   | 5.71                      |                         |
| For >100 To 150, Add   | 11.41                     |                         |
| For >75 To 100, Add  | 17.12                     |                         |
| For >50 To 75, Add   | 22.83                     |                         |
| For >25 To 50, Add   | 30.44                     |                         |
| For Up To 25, Add  | 41.85                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 9.51                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 28.10                     |                         |
| 33 01 30 23-0036 LF 24" Diameter, Static Head Pipe Bursting .....                      | 124.27                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 13.04                     |                         |
| For >150 To 200, Add   | 7.82                      |                         |
| For >100 To 150, Add   | 15.65                     |                         |
| For >75 To 100, Add  | 23.47                     |                         |
| For >50 To 75, Add   | 31.29                     |                         |
| For >25 To 50, Add   | 41.72                     |                         |
| For Up To 25, Add  | 57.37                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 13.04                     |                         |
| For Bursting Ductile Iron Pipe, Add  | 37.42                     |                         |
| 33 01 30 23-0037 LF 30" Diameter, Static Head Pipe Bursting .....                      | 151.24                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 15.58                     |                         |
| For >150 To 200, Add   | 9.35                      |                         |
| For >100 To 150, Add   | 18.70                     |                         |
| For >75 To 100, Add  | 28.04                     |                         |
| For >50 To 75, Add   | 37.39                     |                         |
| For >25 To 50, Add   | 49.86                     |                         |
| For Up To 25, Add  | 68.55                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 15.58                     |                         |
| For Bursting Ductile Iron Pipe, Add  | 45.12                     |                         |
| 33 01 30 23-0038 LF 36" Diameter, Static Head Pipe Bursting .....                      | 182.85                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 19.53                     |                         |
| For >150 To 200, Add   | 11.72                     |                         |
| For >100 To 150, Add   | 23.44                     |                         |
| For >75 To 100, Add  | 35.16                     |                         |
| For >50 To 75, Add   | 46.88                     |                         |
| For >25 To 50, Add   | 62.50                     |                         |
| For Up To 25, Add  | 85.94                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 19.53                     |                         |
| For Bursting Ductile Iron Pipe, Add  | 55.55                     |                         |
| <b>33 01 30 23-0039 Hydraulic Head Pipe Bursting <small>(33 01 30 23-0006)</small></b> |                           |                         |
| 33 01 30 23-0040 LF 4" Diameter, Hydraulic Head Pipe Bursting .....                    | 32.04                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 2.80                      |                         |
| For >150 To 200, Add   | 1.68                      |                         |
| For >100 To 150, Add   | 3.36                      |                         |
| For >75 To 100, Add  | 5.04                      |                         |
| For >50 To 75, Add   | 6.73                      |                         |
| For >25 To 50, Add   | 8.97                      |                         |
| For Up To 25, Add  | 12.33                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 2.80                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 8.84                      |                         |
| 33 01 30 23-0041 LF 6" Diameter, Hydraulic Head Pipe Bursting .....                    | 35.97                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 3.29                      |                         |
| For >150 To 200, Add   | 1.98                      |                         |
| For >100 To 150, Add   | 3.95                      |                         |
| For >75 To 100, Add  | 5.93                      |                         |
| For >50 To 75, Add   | 7.91                      |                         |
| For >25 To 50, Add   | 10.54                     |                         |
| For Up To 25, Add  | 14.49                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 3.29                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 10.14                     |                         |
| 33 01 30 23-0042 LF 8" Diameter, Hydraulic Head Pipe Bursting .....                    | 40.48                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 3.86                      |                         |
| For >150 To 200, Add   | 2.31                      |                         |
| For >100 To 150, Add   | 4.63                      |                         |
| For >75 To 100, Add  | 6.94                      |                         |
| For >50 To 75, Add   | 9.26                      |                         |
| For >25 To 50, Add   | 12.34                     |                         |
| For Up To 25, Add  | 16.97                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 3.86                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 11.63                     |                         |
| 33 01 30 23-0043 LF 10" Diameter, Hydraulic Head Pipe Bursting .....                   | 46.34                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add                                  | 4.59                      |                         |
| For >150 To 200, Add   | 2.75                      |                         |
| For >100 To 150, Add   | 5.51                      |                         |
| For >75 To 100, Add  | 8.26                      |                         |
| For >50 To 75, Add   | 11.02                     |                         |
| For >25 To 50, Add   | 14.69                     |                         |
| For Up To 25, Add  | 20.20                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 4.59                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 13.56                     |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 23-0044 LF 12" Diameter, Hydraulic Head Pipe Bursting .....   | 53.11                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 5.44                      |                         |
| For >150 To 200, Add   | 3.26                      |                         |
| For >100 To 150, Add   | 6.52                      |                         |
| For >75 To 100, Add  | 9.79                      |                         |
| For >50 To 75, Add   | 13.05                     |                         |
| For >25 To 50, Add   | 17.40                     |                         |
| For Up To 25, Add  | 23.92                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 5.44                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 15.79                     |                         |
| 33 01 30 23-0045 LF 15" Diameter, Hydraulic Head Pipe Bursting .....   | 60.48                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 5.90                      |                         |
| For >150 To 200, Add   | 3.54                      |                         |
| For >100 To 150, Add   | 7.08                      |                         |
| For >75 To 100, Add  | 10.62                     |                         |
| For >50 To 75, Add   | 14.15                     |                         |
| For >25 To 50, Add   | 18.87                     |                         |
| For Up To 25, Add  | 25.95                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 5.90                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 17.56                     |                         |
| 33 01 30 23-0046 LF 18" Diameter, Hydraulic Head Pipe Bursting .....   | 67.74                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 6.81                      |                         |
| For >150 To 200, Add   | 4.08                      |                         |
| For >100 To 150, Add   | 8.17                      |                         |
| For >75 To 100, Add  | 12.25                     |                         |
| For >50 To 75, Add   | 16.33                     |                         |
| For >25 To 50, Add   | 21.78                     |                         |
| For Up To 25, Add  | 29.94                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 6.81                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 19.96                     |                         |
| 33 01 30 23-0047 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting .....   | 85.16                     |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 8.15                      |                         |
| For >150 To 200, Add   | 4.89                      |                         |
| For >100 To 150, Add   | 9.78                      |                         |
| For >75 To 100, Add  | 14.67                     |                         |
| For >50 To 75, Add   | 19.56                     |                         |
| For >25 To 50, Add   | 26.08                     |                         |
| For Up To 25, Add  | 35.86                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 8.15                      |                         |
| For Bursting Ductile Iron Pipe, Add  | 24.51                     |                         |
| 33 01 30 23-0048 LF 24" Diameter, Hydraulic Head Pipe Bursting .....   | 111.09                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 11.39                     |                         |
| For >150 To 200, Add   | 6.83                      |                         |
| For >100 To 150, Add   | 13.67                     |                         |
| For >75 To 100, Add  | 20.50                     |                         |
| For >50 To 75, Add   | 27.34                     |                         |
| For >25 To 50, Add   | 36.45                     |                         |
| For Up To 25, Add  | 50.12                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 11.39                     |                         |
| For Bursting Ductile Iron Pipe, Add  | 33.07                     |                         |
| 33 01 30 23-0049 LF 30" Diameter, Hydraulic Head Pipe Bursting .....   | 136.47                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 13.73                     |                         |
| For >150 To 200, Add   | 8.24                      |                         |
| For >100 To 150, Add   | 16.48                     |                         |
| For >75 To 100, Add  | 24.72                     |                         |
| For >50 To 75, Add   | 32.96                     |                         |
| For >25 To 50, Add   | 43.95                     |                         |
| For Up To 25, Add  | 60.43                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 13.73                     |                         |
| For Bursting Ductile Iron Pipe, Add  | 40.25                     |                         |
| 33 01 30 23-0050 LF 36" Diameter, Hydraulic Head Pipe Bursting .....   | 166.53                    |                         |
| For The Increase In Pipe Diameter By 1 Pipe Size, Add  | 17.49                     |                         |
| For >150 To 200, Add   | 10.49                     |                         |
| For >100 To 150, Add   | 20.99                     |                         |
| For >75 To 100, Add  | 31.48                     |                         |
| For >50 To 75, Add   | 41.98                     |                         |
| For >25 To 50, Add   | 55.97                     |                         |
| For Up To 25, Add  | 76.96                     |                         |
| For Bursting Polyvinyl Chloride (PVC) Pipe, Add  | 17.49                     |                         |
| For Bursting Ductile Iron Pipe, Add  | 50.17                     |                         |
| 33 01 30 23-0051 Pipe Lining <small>(33 01 30 23-0001)</small>   |                           |                         |
| 33 01 30 23-0052 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining <small>(33 01 30 23-0051)</small>                          |                           |                         |
| Note: Per each joint.  |                           |                         |
| 33 01 30 23-0053 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining .....  | 130.83                    |                         |
| 33 01 30 23-0054 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining .....                                      | 150.10                    |                         |
| 33 01 30 23-0055 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining .....                                      | 179.02                    |                         |
| 33 01 30 23-0056 High Density Polyethylene (HDPE) Pipe Lining, DR 17 <small>(33 01 30 23-0051)</small>                                   |                           |                         |
| Note: Material to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0052 for pipe joint fusion. |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 23-0057 LF 4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....      | 5.12                      |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -0.63                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 1.70                      |                         |
| <i>For White Interior Pipe, Add</i>   | 1.15                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 0.87                      |                         |
| 33 01 30 23-0058 LF 5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....      | 6.97                      |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -0.95                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 2.59                      |                         |
| <i>For White Interior Pipe, Add</i>   | 1.75                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 1.32                      |                         |
| 33 01 30 23-0059 LF 6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....      | 9.26                      |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -1.36                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 3.69                      |                         |
| <i>For White Interior Pipe, Add</i>   | 2.49                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 1.89                      |                         |
| 33 01 30 23-0060 LF 7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....  | 10.48                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -1.57                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 4.26                      |                         |
| <i>For White Interior Pipe, Add</i>   | 2.87                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 2.18                      |                         |
| 33 01 30 23-0061 LF 8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....      | 14.55                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -2.29                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 6.23                      |                         |
| <i>For White Interior Pipe, Add</i>   | 4.20                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 3.19                      |                         |
| 33 01 30 23-0062 LF 10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 21.65                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -3.56                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 9.68                      |                         |
| <i>For White Interior Pipe, Add</i>   | 6.53                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 4.95                      |                         |
| 33 01 30 23-0063 LF 12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 29.75                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -5.01                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 13.61                     |                         |
| <i>For White Interior Pipe, Add</i>   | 9.19                      |                         |
| <i>For Gray Interior Pipe, Add</i>  | 6.96                      |                         |
| 33 01 30 23-0064 LF 13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining..... | 32.60                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -5.52                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 14.98                     |                         |
| <i>For White Interior Pipe, Add</i>   | 10.11                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 7.66                      |                         |
| 33 01 30 23-0065 LF 14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 35.61                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -6.04                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 16.42                     |                         |
| <i>For White Interior Pipe, Add</i>   | 11.08                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 8.40                      |                         |
| 33 01 30 23-0066 LF 16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 46.00                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -7.89                     |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 21.44                     |                         |
| <i>For White Interior Pipe, Add</i>   | 14.47                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 10.96                     |                         |
| 33 01 30 23-0067 LF 18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 57.83                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -10.00                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 27.16                     |                         |
| <i>For White Interior Pipe, Add</i>   | 18.33                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 13.89                     |                         |
| 33 01 30 23-0068 LF 20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 71.00                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -12.34                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 33.52                     |                         |
| <i>For White Interior Pipe, Add</i>   | 22.62                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 17.14                     |                         |
| 33 01 30 23-0069 LF 22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 85.58                     |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -14.93                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 40.55                     |                         |
| <i>For White Interior Pipe, Add</i>   | 27.37                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 20.73                     |                         |
| 33 01 30 23-0070 LF 24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 101.60                    |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -17.77                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 48.28                     |                         |
| <i>For White Interior Pipe, Add</i>   | 32.58                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 24.68                     |                         |
| 33 01 30 23-0071 LF 26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 118.92                    |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -20.84                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 56.62                     |                         |
| <i>For White Interior Pipe, Add</i>   | 38.21                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 28.95                     |                         |
| 33 01 30 23-0072 LF 28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 137.76                    |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -24.18                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 65.68                     |                         |
| <i>For White Interior Pipe, Add</i>   | 44.33                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 33.58                     |                         |
| 33 01 30 23-0073 LF 30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....     | 158.02                    |                         |
| <i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>  | -27.76                    |                         |
| <i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>  | 75.40                     |                         |
| <i>For White Interior Pipe, Add</i>   | 50.89                     |                         |
| <i>For Gray Interior Pipe, Add</i>  | 38.55                     |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 23-0074 LF 32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....  | 179.72                    |                         |
| For DR 21 Polyethylene Pipe, 80 PSI, Deduct  | -31.57                    |                         |
| For DR 11 Polyethylene Pipe, 160 PSI, Add  | 85.78                     |                         |
| For White Interior Pipe, Add   | 57.89                     |                         |
| For Gray Interior Pipe, Add  | 43.85                     |                         |
| 33 01 30 23-0075 LF 34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....  | 221.36                    |                         |
| For DR 21 Polyethylene Pipe, 80 PSI, Deduct  | -38.96                    |                         |
| For DR 11 Polyethylene Pipe, 160 PSI, Add  | 105.84                    |                         |
| For White Interior Pipe, Add   | 71.43                     |                         |
| For Gray Interior Pipe, Add  | 54.11                     |                         |
| 33 01 30 23-0076 LF 36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....  | 227.77                    |                         |
| For DR 21 Polyethylene Pipe, 80 PSI, Deduct  | -39.97                    |                         |
| For DR 11 Polyethylene Pipe, 160 PSI, Add  | 108.57                    |                         |
| For White Interior Pipe, Add   | 73.27                     |                         |
| For Gray Interior Pipe, Add  | 55.51                     |                         |
| <b>33 01 30 23-0077 Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)</b>   |                           |                         |
| Note: Excludes earthwork excavation and backfill   |                           |                         |
| <b>33 01 30 23-0078 Re-Connection Of Laterals; Insert-A-Tee (33 01 30 23-0077)</b>   |                           |                         |
| Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0039 for hauling.                                    |                           |                         |
| 33 01 30 23-0079 EA Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....  | 1,328.73                  |                         |
| For No Excavation, Deduct  | -860.73                   |                         |
| 33 01 30 23-0080 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....   | 1,491.44                  |                         |
| For No Excavation, Deduct  | -968.32                   |                         |
| 33 01 30 23-0081 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee.....   | 1,574.30                  |                         |
| For No Excavation, Deduct  | -1,022.11                 |                         |
| 33 01 30 23-0082 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee.....   | 1,657.15                  |                         |
| For No Excavation, Deduct  | -1,075.91                 |                         |
| 33 01 30 23-0083 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee.....   | 1,797.08                  |                         |
| For No Excavation, Deduct  | -1,129.70                 |                         |
| 33 01 30 23-0084 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee.....   | 1,678.18                  |                         |
| For No Excavation, Deduct  | -1,075.91                 |                         |
| 33 01 30 23-0085 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee.....   | 1,764.04                  |                         |
| For No Excavation, Deduct  | -1,129.70                 |                         |
| 33 01 30 23-0086 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee.....   | 1,891.95                  |                         |
| For No Excavation, Deduct  | -1,183.50                 |                         |
| 33 01 30 23-0087 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee.....  | 2,224.11                  |                         |
| For No Excavation, Deduct  | -1,237.29                 |                         |
| 33 01 30 23-0088 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee.....  | 2,343.02                  |                         |
| For No Excavation, Deduct  | -1,291.09                 |                         |
| 33 01 30 23-0089 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee.....  | 2,858.38                  |                         |
| For No Excavation, Deduct  | -1,344.88                 |                         |
| <b>33 01 30 23-0090 Re-Connection Of Laterals; Saddle Style (33 01 30 23-0077)</b>   |                           |                         |
| Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0039 for hauling. |                           |                         |
| 33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....  | 2,844.74                  |                         |
| For No Excavation, Deduct  | -960.63                   |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | -245.73                   |                         |
| 33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....  | 3,132.38                  |                         |
| For No Excavation, Deduct  | -999.06                   |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | -229.49                   |                         |
| 33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 4,318.34                  |                         |
| For No Excavation, Deduct  | -1,037.49                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | -78.49                    |                         |
| 33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 4,548.88                  |                         |
| For No Excavation, Deduct  | -1,152.76                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | -124.60                   |                         |
| 33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 7,940.82                  |                         |
| For No Excavation, Deduct  | -1,229.61                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | 330.40                    |                         |
| 33 01 30 23-0096 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 8,609.31                  |                         |
| For No Excavation, Deduct  | -1,364.10                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | 336.53                    |                         |
| 33 01 30 23-0097 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 11,537.54                 |                         |
| For No Excavation, Deduct  | -1,498.59                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | 681.62                    |                         |
| 33 01 30 23-0098 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 11,021.78                 |                         |
| For No Excavation, Deduct  | -1,690.72                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | 469.77                    |                         |
| 33 01 30 23-0099 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....   | 13,381.70                 |                         |
| For No Excavation, Deduct  | -1,998.11                 |                         |
| For Strap-On Saddle Type Instead Of Fusion Weld  | 608.58                    |                         |
| <b>33 01 30 41 Cleaning of Sewers (33 01 30)</b>   |                           |                         |
| <b>33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)</b>  |                           |                         |
| Note: Includes flushing. Owner provided water.   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 01 30 41-0002</b> Pipe Line Cleaning <small>(33 01 30 41-0001)</small><br>Note: Includes removal of all debris/waste. Excludes disposal.                             |                           |                         |
| <b>33 01 30 41-0003</b> Hydro Jet Set-up And Reinsertion <small>(33 01 30 41-0002)</small><br>Note: Includes mobilization delivery, set-up, clean-up after use and return. |                           |                         |
| 33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Up To 8" Jet Cleaning .....   | 1,364.37                  |                         |
| 33 01 30 41-0005 EA Initial Set Up And Final Equipment Removal For >8" To 12" Jet Cleaning .....   | 2,046.57                  |                         |
| 33 01 30 41-0006 EA Initial Set Up And Final Equipment Removal For >12" To 30" Jet Cleaning .....  | 2,728.75                  |                         |
| 33 01 30 41-0007 EA Initial Set Up And Final Equipment Removal For >30" Jet Cleaning .....   | 3,638.33                  |                         |
| 33 01 30 41-0008 EA Move And Reset Up At Different Access/Location For Up To 8" Jet Cleaning .....   | 341.10                    |                         |
| 33 01 30 41-0009 EA Move And Reset Up At Different Access/Location For >8" To 12" Jet Cleaning .....   | 511.64                    |                         |
| 33 01 30 41-0010 EA Move And Reset Up At Different Access/Location For >12" To 30" Jet Cleaning .....  | 682.19                    |                         |
| 33 01 30 41-0011 EA Move And Reset Up At Different Access/Location For >30" Jet Cleaning .....   | 852.73                    |                         |
| <b>33 01 30 41-0012</b> Hydro Jet Cleaning Of Sewer And Water Pipelines <small>(33 01 30 41-0002)</small>  |                           |                         |
| 33 01 30 41-0013 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....  | 3.66                      |                         |
| For >250 To 500, Deduct  | -0.18                     |                         |
| For >500 To 1,000, Deduct  | -0.37                     |                         |
| For >1,000 To 2,000, Deduct  | -0.55                     |                         |
| For >2,000 To 5,000, Deduct  | -0.73                     |                         |
| For >5,000, Deduct   | -0.92                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 2.75                      |                         |
| 33 01 30 41-0014 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....  | 4.21                      |                         |
| For >250 To 500, Deduct  | -0.21                     |                         |
| For >500 To 1,000, Deduct  | -0.42                     |                         |
| For >1,000 To 2,000, Deduct  | -0.63                     |                         |
| For >2,000 To 5,000, Deduct  | -0.84                     |                         |
| For >5,000, Deduct   | -1.05                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 3.16                      |                         |
| 33 01 30 41-0015 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....  | 4.94                      |                         |
| For >250 To 500, Deduct  | -0.25                     |                         |
| For >500 To 1,000, Deduct  | -0.49                     |                         |
| For >1,000 To 2,000, Deduct  | -0.74                     |                         |
| For >2,000 To 5,000, Deduct  | -0.99                     |                         |
| For >5,000, Deduct   | -1.24                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 3.71                      |                         |
| 33 01 30 41-0016 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 6.11                      |                         |
| For >250 To 500, Deduct  | -0.31                     |                         |
| For >500 To 1,000, Deduct  | -0.61                     |                         |
| For >1,000 To 2,000, Deduct  | -0.92                     |                         |
| For >2,000 To 5,000, Deduct  | -1.22                     |                         |
| For >5,000, Deduct   | -1.53                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 4.58                      |                         |
| 33 01 30 41-0017 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 6.93                      |                         |
| For >250 To 500, Deduct  | -0.35                     |                         |
| For >500 To 1,000, Deduct  | -0.69                     |                         |
| For >1,000 To 2,000, Deduct  | -1.04                     |                         |
| For >2,000 To 5,000, Deduct  | -1.39                     |                         |
| For >5,000, Deduct   | -1.73                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 5.20                      |                         |
| 33 01 30 41-0018 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 8.01                      |                         |
| For >250 To 500, Deduct  | -0.40                     |                         |
| For >500 To 1,000, Deduct  | -0.80                     |                         |
| For >1,000 To 2,000, Deduct  | -1.20                     |                         |
| For >2,000 To 5,000, Deduct  | -1.60                     |                         |
| For >5,000, Deduct   | -2.00                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 6.01                      |                         |
| 33 01 30 41-0019 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 9.63                      |                         |
| For >250 To 500, Deduct  | -0.48                     |                         |
| For >500 To 1,000, Deduct  | -0.96                     |                         |
| For >1,000 To 2,000, Deduct  | -1.44                     |                         |
| For >2,000 To 5,000, Deduct  | -1.93                     |                         |
| For >5,000, Deduct   | -2.41                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 7.22                      |                         |
| 33 01 30 41-0020 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 10.93                     |                         |
| For >250 To 500, Deduct  | -0.55                     |                         |
| For >500 To 1,000, Deduct  | -1.09                     |                         |
| For >1,000 To 2,000, Deduct  | -1.64                     |                         |
| For >2,000 To 5,000, Deduct  | -2.19                     |                         |
| For >5,000, Deduct   | -2.73                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 8.20                      |                         |
| 33 01 30 41-0021 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 12.92                     |                         |
| For >250 To 500, Deduct  | -0.65                     |                         |
| For >500 To 1,000, Deduct  | -1.29                     |                         |
| For >1,000 To 2,000, Deduct  | -1.94                     |                         |
| For >2,000 To 5,000, Deduct  | -2.58                     |                         |
| For >5,000, Deduct   | -3.23                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 9.69                      |                         |
| 33 01 30 41-0022 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....   | 16.24                     |                         |
| For >250 To 500, Deduct  | -0.81                     |                         |
| For >500 To 1,000, Deduct  | -1.62                     |                         |
| For >1,000 To 2,000, Deduct  | -2.44                     |                         |
| For >2,000 To 5,000, Deduct  | -3.25                     |                         |
| For >5,000, Deduct   | -4.06                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 12.18                     |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 41-0023 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....  | 18.95                     |                         |
| For>250 To 500, Deduct   | -0.95                     |                         |
| For>500 To 1,000, Deduct   | -1.90                     |                         |
| For>1,000 To 2,000, Deduct   | -2.84                     |                         |
| For>2,000 To 5,000, Deduct   | -3.79                     |                         |
| For>5,000, Deduct  | -4.74                     |                         |
| For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add   | 14.21                     |                         |
| <b>33 01 30 41-0024 Flushing Of Storm Water Pipelines</b> (33 01 30 41-0002)   |                           |                         |
| Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.  |                           |                         |
| 33 01 30 41-0025 LF 12" To 16" Diameter Pipe Line Flushing .....   | 1.37                      |                         |
| For>250 To 500, Deduct   | -0.07                     |                         |
| For>500 To 1,000, Deduct   | -0.14                     |                         |
| For>1,000 To 2,000, Deduct   | -0.21                     |                         |
| For>2,000 To 5,000, Deduct   | -0.27                     |                         |
| For>5,000, Deduct  | -0.34                     |                         |
| 33 01 30 41-0026 LF >16" To 24" Diameter Pipe Line Flushing .....  | 1.57                      |                         |
| For>250 To 500, Deduct   | -0.08                     |                         |
| For>500 To 1,000, Deduct   | -0.16                     |                         |
| For>1,000 To 2,000, Deduct   | -0.24                     |                         |
| For>2,000 To 5,000, Deduct   | -0.31                     |                         |
| For>5,000, Deduct  | -0.39                     |                         |
| 33 01 30 41-0027 LF >24" To 30" Diameter Pipe Line Flushing .....  | 1.84                      |                         |
| For>250 To 500, Deduct   | -0.09                     |                         |
| For>500 To 1,000, Deduct   | -0.18                     |                         |
| For>1,000 To 2,000, Deduct   | -0.28                     |                         |
| For>2,000 To 5,000, Deduct   | -0.37                     |                         |
| For>5,000, Deduct  | -0.46                     |                         |
| 33 01 30 41-0028 LF >30" To 42" Diameter Pipe Line Flushing .....  | 2.11                      |                         |
| For>250 To 500, Deduct   | -0.11                     |                         |
| For>500 To 1,000, Deduct   | -0.21                     |                         |
| For>1,000 To 2,000, Deduct   | -0.32                     |                         |
| For>2,000 To 5,000, Deduct   | -0.42                     |                         |
| For>5,000, Deduct  | -0.53                     |                         |
| 33 01 30 41-0029 LF >42" To 60" Diameter Pipe Line Flushing .....  | 2.81                      |                         |
| For>250 To 500, Deduct   | -0.14                     |                         |
| For>500 To 1,000, Deduct   | -0.28                     |                         |
| For>1,000 To 2,000, Deduct   | -0.42                     |                         |
| For>2,000 To 5,000, Deduct   | -0.56                     |                         |
| For>5,000, Deduct  | -0.70                     |                         |
| <b>33 01 30 41-0030 Hydro Jet Cleaning Of Culverts</b> (33 01 30 41-0002)  |                           |                         |
| 33 01 30 41-0031 LF Jet Cleaning Of Culvert, 0-250 LF .....  | 16.97                     |                         |
| For>250 To 500, Deduct   | -0.85                     |                         |
| For>500 To 1,000, Deduct   | -1.70                     |                         |
| For>1,000 To 2,000, Deduct   | -2.55                     |                         |
| For>2,000 To 5,000, Deduct   | -3.39                     |                         |
| For>5,000, Deduct  | -4.24                     |                         |
| <b>33 01 30 41-0032 Pipe Line Cleaning, Mechanical Method</b> (33 01 30 41-0001)   |                           |                         |
| Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment.<br>Includes removal of all debris/waste. Excludes disposal. |                           |                         |
| 33 01 30 41-0033 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....  | 1,191.67                  |                         |
| 33 01 30 41-0034 EA Move And Reset Up At Different Access/Location.....  | 397.23                    |                         |
| 33 01 30 41-0035 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method .....  | 6.92                      |                         |
| For>250 To 500, Deduct   | -0.33                     |                         |
| For>500 To 1,000, Deduct   | -0.66                     |                         |
| For>1,000 To 2,000, Deduct   | -0.99                     |                         |
| For>2,000 To 5,000, Deduct   | -1.32                     |                         |
| For>5,000, Deduct  | -1.66                     |                         |
| 33 01 30 41-0036 LF 6" Diameter Pipe Line Cleaning, Mechanical Method .....  | 9.12                      |                         |
| For>250 To 500, Deduct   | -0.43                     |                         |
| For>500 To 1,000, Deduct   | -0.85                     |                         |
| For>1,000 To 2,000, Deduct   | -1.28                     |                         |
| For>2,000 To 5,000, Deduct   | -1.70                     |                         |
| For>5,000, Deduct  | -2.13                     |                         |
| 33 01 30 41-0037 LF 8" Diameter Pipe Line Cleaning, Mechanical Method .....  | 10.68                     |                         |
| For>250 To 500, Deduct   | -0.50                     |                         |
| For>500 To 1,000, Deduct   | -0.99                     |                         |
| For>1,000 To 2,000, Deduct   | -1.49                     |                         |
| For>2,000 To 5,000, Deduct   | -1.99                     |                         |
| For>5,000, Deduct  | -2.48                     |                         |
| 33 01 30 41-0038 LF 10" Diameter Pipe Line Cleaning, Mechanical Method.....  | 12.36                     |                         |
| For>250 To 500, Deduct   | -0.57                     |                         |
| For>500 To 1,000, Deduct   | -1.15                     |                         |
| For>1,000 To 2,000, Deduct   | -1.72                     |                         |
| For>2,000 To 5,000, Deduct   | -2.29                     |                         |
| For>5,000, Deduct  | -2.87                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 41-0039 LF 12" Diameter Pipe Line Cleaning, Mechanical Method .....         | 13.46                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.62                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.24                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -1.86                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -2.48                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -3.10                     |                         |
| 33 01 30 41-0040 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method ..... | 15.53                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.71                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.42                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -2.13                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -2.84                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -3.55                     |                         |
| 33 01 30 41-0041 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method ..... | 19.61                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.88                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.75                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -3.50                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -4.38                     |                         |
| 33 01 30 41-0042 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method ..... | 22.53                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.98                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.95                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -2.93                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -3.91                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -4.89                     |                         |
| 33 01 30 41-0043 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method ..... | 26.22                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -1.12                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -2.25                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -3.37                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -4.50                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -5.62                     |                         |
| 33 01 30 41-0044 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method .....  | 34.27                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -1.49                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -2.98                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -4.47                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -5.96                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -7.45                     |                         |
| 33 01 30 41-0045 LF >60" Diameter Pipe Line Cleaning, Mechanical Method .....        | 39.08                     |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -1.66                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -3.31                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -4.97                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -6.62                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -8.28                     |                         |
| <b>33 01 30 41-0046 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)</b>           |                           |                         |
| 33 01 30 41-0047 EA Initial Set Up And Final Equipment Removal For Auguring .....    | 1,191.67                  |                         |
| 33 01 30 41-0048 EA Move And Reset Up At Different Location .....                    | 397.23                    |                         |
| 33 01 30 41-0049 LF Up To 4" Diameter Pipe Line Auguring/Rod Out .....               | 3.97                      |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.20                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.40                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -0.60                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -0.79                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -0.99                     |                         |
| 33 01 30 41-0050 LF 6" Diameter Pipe Line Auguring/Rod Out .....                     | 5.14                      |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.26                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.51                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -0.77                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -1.03                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -1.29                     |                         |
| 33 01 30 41-0051 LF 8" Diameter Pipe Line Auguring/Rod Out .....                     | 5.95                      |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.30                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.60                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -0.89                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -1.19                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -1.49                     |                         |
| 33 01 30 41-0052 LF 10" Diameter Pipe Line Auguring/Rod Out .....                    | 6.93                      |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.35                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.69                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -1.04                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -1.39                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -1.73                     |                         |
| 33 01 30 41-0053 LF 12" Diameter Pipe Line Auguring/Rod Out .....                    | 7.45                      |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.37                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.75                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -1.12                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -1.49                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -1.86                     |                         |
| 33 01 30 41-0054 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out .....            | 8.52                      |                         |
| <i>For &gt;250 To 500, Deduct</i>  | -0.43                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -0.85                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -1.28                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -1.70                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -2.13                     |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 41-0055 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out..... | 10.45                     |                         |
| For>250 To 500, Deduct   | -0.52                     |                         |
| For>500 To 1,000, Deduct   | -1.05                     |                         |
| For>1,000 To 2,000, Deduct   | -1.57                     |                         |
| For>2,000 To 5,000, Deduct   | -2.09                     |                         |
| For>5,000, Deduct  | -2.61                     |                         |
| 33 01 30 41-0056 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out..... | 11.68                     |                         |
| For>250 To 500, Deduct   | -0.58                     |                         |
| For>500 To 1,000, Deduct   | -1.17                     |                         |
| For>1,000 To 2,000, Deduct   | -1.75                     |                         |
| For>2,000 To 5,000, Deduct   | -2.34                     |                         |
| For>5,000, Deduct  | -2.92                     |                         |
| 33 01 30 41-0057 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out..... | 13.54                     |                         |
| For>250 To 500, Deduct   | -0.68                     |                         |
| For>500 To 1,000, Deduct   | -1.35                     |                         |
| For>1,000 To 2,000, Deduct   | -2.03                     |                         |
| For>2,000 To 5,000, Deduct   | -2.71                     |                         |
| For>5,000, Deduct  | -3.39                     |                         |
| 33 01 30 41-0058 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....  | 18.62                     |                         |
| For>250 To 500, Deduct   | -0.93                     |                         |
| For>500 To 1,000, Deduct   | -1.86                     |                         |
| For>1,000 To 2,000, Deduct   | -2.79                     |                         |
| For>2,000 To 5,000, Deduct   | -3.72                     |                         |
| For>5,000, Deduct  | -4.66                     |                         |
| 33 01 30 41-0059 LF >60" Diameter Pipe Line Auguring/Rod Out.....        | 19.86                     |                         |
| For>250 To 500, Deduct   | -0.99                     |                         |
| For>500 To 1,000, Deduct   | -1.99                     |                         |
| For>1,000 To 2,000, Deduct   | -2.98                     |                         |
| For>2,000 To 5,000, Deduct   | -3.97                     |                         |
| For>5,000, Deduct  | -4.97                     |                         |

**33 01 30 42 Cleaning of Manholes (33 01 30)****33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)**

Note: Includes flushing. Owner provided water.

**33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)**

|   |          |  |
|---|----------|--|
| 33 01 30 42-0003 EA Rod Out Waste Water Drain.....                            | 62.84    |  |
| 33 01 30 42-0004 EA Rod Out Sewer Catch Basin.....                            | 125.69   |  |
| 33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage.....             | 25.14    |  |
| 33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage.....                   | 27.65    |  |
| 33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage.....                  | 31.42    |  |
| 33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage.....                  | 36.45    |  |
| 33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage.....          | 42.74    |  |
| 33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage.....          | 50.27    |  |
| 33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage.....          | 59.07    |  |
| 33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage.....          | 67.88    |  |
| 33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage.....          | 79.18    |  |
| 33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage.....                 | 94.27    |  |
| 33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure.....    | 314.22   |  |
| 33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand..... | 843.73   |  |
| For>10 To 100, Deduct   | -126.56  |  |
| For>100 To 250, Deduct  | -189.84  |  |
| For>250, Deduct   | -253.12  |  |
| 33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand..... | 1,012.48 |  |
| For>10 To 100, Deduct   | -151.87  |  |
| For>100 To 250, Deduct  | -227.81  |  |
| For>250, Deduct   | -303.74  |  |
| 33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand.....                | 506.24   |  |
| For>10 To 100, Deduct   | -75.94   |  |
| For>100 To 250, Deduct  | -113.90  |  |
| For>250, Deduct   | -151.87  |  |

**33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)**

Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.

|   |        |  |
|---|--------|--|
| 33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes.....     | 301.10 |  |
| 33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes.....    | 279.61 |  |
| 33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes.....   | 258.12 |  |
| 33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes.....  | 236.62 |  |
| 33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes..... | 215.13 |  |
| 33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes.....       | 193.65 |  |

**33 01 30 43 Removal of Protruding Service Connection (33 01 30)****33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)**

|   |        |  |
|---|--------|--|
| 33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic..... | 774.74 |  |
| 33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic..... | 852.21 |  |
| 33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic..... | 929.69 |  |



| MINOR<br>CSI   | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|-----|--|---------------------------|-------------------------|
| <b>33 01 30 51 Maintenance of Utilities (33 01 30)</b> |     |  |                           |                         |
| 33 01 30 51-0001                                       |     | <b>Pipe Repair</b> (33 01 30 51)<br>Note: Excludes excavation and backfill where required  |                           |                         |
| 33 01 30 51-0002                                       |     | <b>Pipe Repair Clamp, Full Circle, Single Band</b> (33 01 30 51-0001)<br>Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe. |                           |                         |
| 33 01 30 51-0003                                       | EA  | 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 140.26<br>20.64           |                         |
| 33 01 30 51-0004                                       | EA  | 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 196.48<br>31.10           |                         |
| 33 01 30 51-0005                                       | EA  | 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 225.89<br>36.63           |                         |
| 33 01 30 51-0006                                       | EA  | 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 256.70<br>42.14           |                         |
| 33 01 30 51-0007                                       | EA  | 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 151.05<br>22.41           |                         |
| 33 01 30 51-0008                                       | EA  | 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 208.62<br>33.19           |                         |
| 33 01 30 51-0009                                       | EA  | 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 238.22<br>38.59           |                         |
| 33 01 30 51-0010                                       | EA  | 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 274.40<br>45.15           |                         |
| 33 01 30 51-0011                                       | EA  | 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 161.74<br>24.52           |                         |
| 33 01 30 51-0012                                       | EA  | 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 216.71<br>34.70           |                         |
| 33 01 30 51-0013                                       | EA  | 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 249.63<br>40.68           |                         |
| 33 01 30 51-0014                                       | EA  | 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 289.63<br>48.30           |                         |
| 33 01 30 51-0015                                       | EA  | 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 181.83<br>27.88           |                         |
| 33 01 30 51-0016                                       | EA  | 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 239.01<br>37.53           |                         |
| 33 01 30 51-0017                                       | EA  | 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 289.56<br>45.68           |                         |
| 33 01 30 51-0018                                       | EA  | 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 348.72<br>55.11           |                         |
| 33 01 30 51-0019                                       | EA  | 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 452.78<br>74.02           |                         |
| 33 01 30 51-0020                                       | EA  | 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 561.95<br>92.93           |                         |
| 33 01 30 51-0021                                       | EA  | 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 684.54<br>113.99          |                         |
| 33 01 30 51-0022                                       | EA  | 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 213.53<br>32.90           |                         |
| 33 01 30 51-0023                                       | EA  | 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 282.14<br>44.63           |                         |
| 33 01 30 51-0024                                       | EA  | 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 334.54<br>52.62           |                         |
| 33 01 30 51-0025                                       | EA  | 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 392.76<br>61.15           |                         |
| 33 01 30 51-0026                                       | EA  | 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 537.53<br>88.61           |                         |
| 33 01 30 51-0027                                       | EA  | 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 653.09<br>108.06          |                         |
| 33 01 30 51-0028                                       | EA  | 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 779.93<br>129.12          |                         |
| 33 01 30 51-0029                                       | EA  | 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 283.92<br>39.36           |                         |
| 33 01 30 51-0030                                       | EA  | 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 367.42<br>52.08           |                         |
| 33 01 30 51-0031                                       | EA  | 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 443.20<br>63.02           |                         |
| 33 01 30 51-0032                                       | EA  | 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 529.55<br>75.10           |                         |
| 33 01 30 51-0033                                       | EA  | 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 696.25<br>104.04          |                         |
| 33 01 30 51-0034                                       | EA  | 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 832.77<br>124.41          |                         |
| 33 01 30 51-0035                                       | EA  | 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 987.72<br>146.43          |                         |
| 33 01 30 51-0036                                       | EA  | 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>  | 329.52<br>47.90           |                         |
| 33 01 30 51-0037                                       | EA  | 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 439.64<br>66.26           |                         |
| 33 01 30 51-0038                                       | EA  | 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 518.71<br>77.47           |                         |
| 33 01 30 51-0039                                       | EA  | 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 635.15<br>95.82           |                         |
| 33 01 30 51-0040                                       | EA  | 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)<br><i>For Stainless Steel Nuts And Bolts, Add</i>   | 827.32<br>129.97          |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 33 01 30 51-0041        | EA  | 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 945.98<br>145.27          |                         |
| 33 01 30 51-0042        | EA  | 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 1,209.70<br>191.65        |                         |
| 33 01 30 51-0043        | EA  | 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                      | 375.90<br>54.03           |                         |
| 33 01 30 51-0044        | EA  | 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 488.67<br>71.86           |                         |
| 33 01 30 51-0045        | EA  | 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                     | 589.54<br>86.96           |                         |
| 33 01 30 51-0046        | EA  | 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 723.58<br>108.06          |                         |
| 33 01 30 51-0047        | EA  | 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 925.06<br>142.72          |                         |
| 33 01 30 51-0048        | EA  | 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 1,089.79<br>166.67        |                         |
| 33 01 30 51-0049        | EA  | 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) .....<br><i>For Stainless Steel Nuts And Bolts, Add</i>                         | 1,378.04<br>216.11        |                         |
| <b>33 01 30 51-0050</b> |     | <b>Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001)</b>   |                           |                         |
|                         |     | Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.  |                           |                         |
| 33 01 30 51-0051        | EA  | 14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 803.18<br>207.89          |                         |
| 33 01 30 51-0052        | EA  | 14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,132.67<br>300.12        |                         |
| 33 01 30 51-0053        | EA  | 14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,522.01<br>407.00        |                         |
| 33 01 30 51-0054        | EA  | 14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 2,226.45<br>613.43        |                         |
| 33 01 30 51-0055        | EA  | 15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 843.14<br>218.12          |                         |
| 33 01 30 51-0056        | EA  | 15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,185.84<br>314.03        |                         |
| 33 01 30 51-0057        | EA  | 15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,589.88<br>424.56        |                         |
| 33 01 30 51-0058        | EA  | 15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 2,334.36<br>642.70        |                         |
| 33 01 30 51-0059        | EA  | 15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 865.95<br>222.53          |                         |
| 33 01 30 51-0060        | EA  | 15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,215.77<br>319.90        |                         |
| 33 01 30 51-0061        | EA  | 15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,633.41<br>434.08        |                         |
| 33 01 30 51-0062        | EA  | 15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 2,396.39<br>656.60        |                         |
| 33 01 30 51-0063        | EA  | 16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 890.16<br>226.92          |                         |
| 33 01 30 51-0064        | EA  | 16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,249.97<br>326.48        |                         |
| 33 01 30 51-0065        | EA  | 16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,676.81<br>442.13        |                         |
| 33 01 30 51-0066        | EA  | 16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 2,459.13<br>669.79        |                         |
| 33 01 30 51-0067        | EA  | 17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 912.22<br>230.58          |                         |
| 33 01 30 51-0068        | EA  | 17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,279.80<br>331.60        |                         |
| 33 01 30 51-0069        | EA  | 17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 1,720.21<br>450.18        |                         |
| 33 01 30 51-0070        | EA  | 17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 2,516.84<br>680.76        |                         |
| 33 01 30 51-0071        | EA  | 17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts<br>(Smith-Blair 228).....<br><i>For Stainless Steel Nuts And Bolts, Add</i> | 932.86<br>234.25          |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 51-0072 EA 17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 1,309.72                  |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 337.45                    |                         |
| 33 01 30 51-0073 EA 17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 1,758.68                  |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 457.50                    |                         |
| 33 01 30 51-0074 EA 17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 2,555.49                  |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 686.25                    |                         |
| 33 01 30 51-0075 EA 18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 956.15                    |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 238.81                    |                         |
| 33 01 30 51-0076 EA 18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 1,344.64                  |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 344.77                    |                         |
| 33 01 30 51-0077 EA 18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 1,799.24                  |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 465.55                    |                         |
| 33 01 30 51-0078 EA 18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... | 2,633.74                  |                         |
| <i>For Stainless Steel Nuts And Bolts, Add</i>  | 705.65                    |                         |
| <b>33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)</b>  |                           |                         |
| <b>33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079)</b>  |                           |                         |
| Note: Includes gaskets. Dresser style 88.   |                           |                         |
| <b>33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)</b>  |                           |                         |
| 33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling.....  | 112.07                    |                         |
| 33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling.....  | 130.27                    |                         |
| 33 01 30 51-0084 EA 1" Copper Compression Repair Coupling.....  | 153.18                    |                         |
| 33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling.....  | 172.23                    |                         |
| 33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling.....  | 267.47                    |                         |
| <b>33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)</b>  |                           |                         |
| 33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow.....   | 135.23                    |                         |
| 33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow.....   | 156.49                    |                         |
| 33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow.....   | 320.13                    |                         |
| 33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow.....   | 125.48                    |                         |
| 33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow.....  | 112.92                    |                         |
| 33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....  | 132.19                    |                         |
| 33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....  | 163.87                    |                         |
| <b>33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)</b>  |                           |                         |
| 33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee.....   | 249.00                    |                         |
| 33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee.....   | 191.29                    |                         |
| 33 01 30 51-0098 EA 1" Copper Compression Repair Tee.....   | 227.35                    |                         |
| 33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee.....  | 186.30                    |                         |
| <b>33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)</b>   |                           |                         |
| 33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter.....   | 117.19                    |                         |
| 33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter.....   | 93.60                     |                         |
| 33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter.....   | 106.36                    |                         |
| 33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter.....   | 128.98                    |                         |
| 33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter.....   | 155.02                    |                         |
| 33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter.....   | 168.92                    |                         |
| <b>33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)</b>   |                           |                         |
| 33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter.....   | 137.60                    |                         |
| 33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter.....   | 145.35                    |                         |
| <b>33 01 30 51-0110 Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079)</b>  |                           |                         |
| Note: Includes gaskets. Dresser style 90.   |                           |                         |
| <b>33 01 30 51-0111 Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110)</b>  |                           |                         |
| Note: Includes gaskets.   |                           |                         |
| 33 01 30 51-0112 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....   | 81.93                     |                         |
| 33 01 30 51-0113 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....   | 83.28                     |                         |
| 33 01 30 51-0114 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring.....   | 93.86                     |                         |
| 33 01 30 51-0115 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....   | 104.55                    |                         |
| 33 01 30 51-0116 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....   | 129.25                    |                         |
| 33 01 30 51-0117 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring.....   | 157.20                    |                         |
| 33 01 30 51-0118 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....   | 84.16                     |                         |
| 33 01 30 51-0119 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....   | 85.74                     |                         |
| 33 01 30 51-0120 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....   | 94.23                     |                         |
| 33 01 30 51-0121 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....   | 105.69                    |                         |
| 33 01 30 51-0122 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....   | 133.00                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 33 01 30 51-0123 | EA | 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket      | 158.85 |  |
| 33 01 30 51-0124 | EA | 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket   | 159.97 |  |
| 33 01 30 51-0125 | EA | 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket     | 187.14 |  |
| 33 01 30 51-0126 | EA | 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket | 194.91 |  |
| 33 01 30 51-0127 | EA | 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket | 219.42 |  |
| 33 01 30 51-0128 | EA | 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket     | 266.97 |  |

**33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression)** (33 01 30 51-0110)

Note: Includes armored gaskets.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 33 01 30 51-0130 | EA | 3/4" x 1/2" Reducing Coupling (Compression)     | 90.74  |  |
| 33 01 30 51-0131 | EA | 1" x 3/4" Reducing Coupling (Compression)       | 96.29  |  |
| 33 01 30 51-0132 | EA | 1-1/4" x 3/4" Reducing Coupling (Compression)   | 108.62 |  |
| 33 01 30 51-0133 | EA | 1-1/4" x 1" Reducing Coupling (Compression)     | 112.74 |  |
| 33 01 30 51-0134 | EA | 1-1/2" x 3/4" Reducing Coupling (Compression)   | 215.31 |  |
| 33 01 30 51-0135 | EA | 1-1/2" x 1" Reducing Coupling (Compression)     | 135.64 |  |
| 33 01 30 51-0136 | EA | 1-1/2" x 1-1/4" Reducing Coupling (Compression) | 136.23 |  |
| 33 01 30 51-0137 | EA | 2" x 3/4" Reducing Coupling (Compression)       | 257.16 |  |
| 33 01 30 51-0138 | EA | 2" x 1" Reducing Coupling (Compression)         | 234.28 |  |
| 33 01 30 51-0139 | EA | 2" x 1-1/4" Reducing Coupling (Compression)     | 179.83 |  |
| 33 01 30 51-0140 | EA | 2" x 1-1/2" Reducing Coupling (Compression)     | 179.23 |  |

**33 01 30 51-0141 Steel Compression Repair Fittings, Elbows** (33 01 30 51-0110)

Note: Includes armored gaskets.

|                  |    |  |        |  |
|------------------|----|--|--------|--|
| 33 01 30 51-0142 | EA | 1" 45 Degree Elbow (Compression)                         | 148.82 |  |
| 33 01 30 51-0143 | EA | 1-1/4" 45 Degree Elbow (Compression)                     | 155.30 |  |
| 33 01 30 51-0144 | EA | 1-1/2" 45 Degree Elbow (Compression)                     | 200.50 |  |
| 33 01 30 51-0145 | EA | 2" 45 Degree Elbow (Compression)                         | 252.89 |  |
| 33 01 30 51-0146 | EA | 3/4" 90 Degree Elbow (Compression)                       | 100.24 |  |
| 33 01 30 51-0147 | EA | 1" 90 Degree Elbow (Compression)                         | 104.24 |  |
| 33 01 30 51-0148 | EA | 1-1/4" 90 Degree Elbow (Compression)                     | 122.01 |  |
| 33 01 30 51-0149 | EA | 1-1/2" 90 Degree Elbow (Compression)                     | 173.50 |  |
| 33 01 30 51-0150 | EA | 2" 90 Degree Elbow (Compression)                         | 190.46 |  |
| 33 01 30 51-0151 | EA | 3/4" Plain End 90 Degree Street Elbow (Compression)      | 100.55 |  |
| 33 01 30 51-0152 | EA | 1" Plain End 90 Degree Street Elbow (Compression)        | 89.39  |  |
| 33 01 30 51-0153 | EA | 1-1/4" Plain End 90 Degree Street Elbow (Compression)    | 101.01 |  |
| 33 01 30 51-0154 | EA | 1-1/2" Plain End 90 Degree Street Elbow (Compression)    | 127.72 |  |
| 33 01 30 51-0155 | EA | 2" Plain End 90 Degree Street Elbow (Compression)        | 164.56 |  |
| 33 01 30 51-0156 | EA | 3/4" Threaded End 90 Degree Street Elbow (Compression)   | 103.77 |  |
| 33 01 30 51-0157 | EA | 1" Threaded End 90 Degree Street Elbow (Compression)     | 95.44  |  |
| 33 01 30 51-0158 | EA | 1-1/4" Threaded End 90 Degree Street Elbow (Compression) | 123.45 |  |
| 33 01 30 51-0159 | EA | 1-1/2" Threaded End 90 Degree Street Elbow (Compression) | 149.12 |  |
| 33 01 30 51-0160 | EA | 2" Threaded End 90 Degree Street Elbow (Compression)     | 210.35 |  |

**33 01 30 51-0161 Steel Compression Repair Fittings, Tees** (33 01 30 51-0110)

Note: Includes armored gaskets.

|                  |    |  |        |  |
|------------------|----|--|--------|--|
| 33 01 30 51-0162 | EA | 3/4" Street Tee (Compression)                              | 111.42 |  |
| 33 01 30 51-0163 | EA | 1" Street Tee (Compression)                                | 131.10 |  |
| 33 01 30 51-0164 | EA | 1-1/4" Street Tee (Compression)                            | 133.17 |  |
| 33 01 30 51-0165 | EA | 1-1/2" Street Tee (Compression)                            | 154.32 |  |
| 33 01 30 51-0166 | EA | 2" Street Tee (Compression)                                | 231.19 |  |
| 33 01 30 51-0167 | EA | 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)     | 132.01 |  |
| 33 01 30 51-0168 | EA | 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)     | 137.85 |  |
| 33 01 30 51-0169 | EA | 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)     | 172.64 |  |
| 33 01 30 51-0170 | EA | 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression) | 199.06 |  |
| 33 01 30 51-0171 | EA | 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)     | 200.22 |  |
| 33 01 30 51-0172 | EA | 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression) | 170.15 |  |
| 33 01 30 51-0173 | EA | 2" x 1-1/4" x 2" Reducing Street Tee (Compression)         | 225.48 |  |
| 33 01 30 51-0174 | EA | 2" x 1-1/2" x 2" Reducing Street Tee (Compression)         | 254.83 |  |
| 33 01 30 51-0175 | EA | 3/4" Welding Street Tee (Compression)                      | 199.48 |  |
| 33 01 30 51-0176 | EA | 1" Welding Street Tee (Compression)                        | 200.80 |  |
| 33 01 30 51-0177 | EA | 1-1/4" Welding Street Tee (Compression)                    | 215.77 |  |
| 33 01 30 51-0178 | EA | 1-1/2" Welding Street Tee (Compression)                    | 259.98 |  |
| 33 01 30 51-0179 | EA | 2" Welding Street Tee (Compression)                        | 349.05 |  |
| 33 01 30 51-0180 | EA | 3/4" Regular Tee (Compression)                             | 148.25 |  |
| 33 01 30 51-0181 | EA | 1" Regular Tee (Compression)                               | 256.69 |  |
| 33 01 30 51-0182 | EA | 1-1/4" Regular Tee (Compression)                           | 271.54 |  |
| 33 01 30 51-0183 | EA | 1-1/2" Regular Tee (Compression)                           | 292.69 |  |
| 33 01 30 51-0184 | EA | 2" Regular Tee (Compression)                               | 325.27 |  |
| 33 01 30 51-0185 | EA | 2" x 2" x 1-1/4" Regular Reducing Tee (Compression)        | 320.57 |  |

**33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters** (33 01 30 51-0110)

Note: Includes armored gaskets.

|                  |    |                                   |        |  |
|------------------|----|-----------------------------------|--------|--|
| 33 01 30 51-0187 | EA | 3/4" Male Adapter (Compression)   | 99.96  |  |
| 33 01 30 51-0188 | EA | 1" Male Adapter (Compression)     | 111.56 |  |
| 33 01 30 51-0189 | EA | 1-1/4" Male Adapter (Compression) | 144.89 |  |
| 33 01 30 51-0190 | EA | 1-1/2" Male Adapter (Compression) | 164.12 |  |
| 33 01 30 51-0191 | EA | 2" Male Adapter (Compression)     | 185.54 |  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 51-0192 EA 1" x 1-1/4" Male Adapter (Compression) .....                                       | 144.13                    |                         |
| <b>33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps</b> <small>(33 01 30 51-0110)</small> |                           |                         |
| <small>Note: Includes armored gaskets.</small>   |                           |                         |
| 33 01 30 51-0194 EA 3/4" Line Caps (Compression).....  | 53.59                     |                         |
| 33 01 30 51-0195 EA 1" Line Caps (Compression).....  | 62.39                     |                         |
| 33 01 30 51-0196 EA 1-1/4" Line Caps (Compression).....  | 71.34                     |                         |
| 33 01 30 51-0197 EA 1-1/2" Line Caps (Compression).....  | 84.10                     |                         |
| 33 01 30 51-0198 EA 2" Line Caps (Compression).....  | 103.77                    |                         |
| <br><b>33 01 30 51-0199 Couplings For Steel Pipe</b> <small>(33 01 30 51-0079)</small>                 |                           |                         |
| <small>Note: Includes Buna S gasket, Dresser style 38</small>  |                           |                         |
| 33 01 30 51-0200 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....                          | 81.24                     |                         |
| 33 01 30 51-0201 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket.....                              | 100.95                    |                         |
| 33 01 30 51-0202 EA 1" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 116.63                    |                         |
| 33 01 30 51-0203 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....                            | 139.97                    |                         |
| 33 01 30 51-0204 EA 2" Coupling, 4" Middle Ring With Buna S Gasket.....                                | 173.01                    |                         |
| 33 01 30 51-0205 EA 2" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 224.60                    |                         |
| 33 01 30 51-0206 EA 2" Coupling, 7" Middle Ring With Buna S Gasket.....                                | 211.76                    |                         |
| 33 01 30 51-0207 EA 3" Coupling, 4" Middle Ring With Buna S Gasket.....                                | 278.68                    |                         |
| 33 01 30 51-0208 EA 3" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 286.45                    |                         |
| 33 01 30 51-0209 EA 3" Coupling, 7" Middle Ring With Buna S Gasket.....                                | 294.22                    |                         |
| 33 01 30 51-0210 EA 4" Coupling, 4" Middle Ring With Buna S Gasket.....                                | 324.86                    |                         |
| 33 01 30 51-0211 EA 4" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 338.05                    |                         |
| 33 01 30 51-0212 EA 4" Coupling, 7" Middle Ring With Buna S Gasket.....                                | 354.58                    |                         |
| 33 01 30 51-0213 EA 5" Coupling, 4" Middle Ring With Buna S Gasket.....                                | 418.34                    |                         |
| 33 01 30 51-0214 EA 5" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 423.55                    |                         |
| 33 01 30 51-0215 EA 5" Coupling, 7" Middle Ring With Buna S Gasket.....                                | 442.51                    |                         |
| 33 01 30 51-0216 EA 6" Coupling, 4" Middle Ring With Buna S Gasket.....                                | 448.57                    |                         |
| 33 01 30 51-0217 EA 6" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 462.65                    |                         |
| 33 01 30 51-0218 EA 6" Coupling, 7" Middle Ring With Buna S Gasket.....                                | 480.64                    |                         |
| 33 01 30 51-0219 EA 8" Coupling, 4" Middle Ring With Buna S Gasket.....                                | 523.54                    |                         |
| 33 01 30 51-0220 EA 8" Coupling, 5" Middle Ring With Buna S Gasket.....                                | 544.37                    |                         |
| 33 01 30 51-0221 EA 8" Coupling, 7" Middle Ring With Buna S Gasket.....                                | 561.46                    |                         |
| 33 01 30 51-0222 EA 10" Coupling, 5" Middle Ring With Buna S Gasket.....                               | 640.50                    |                         |
| 33 01 30 51-0223 EA 10" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 738.79                    |                         |
| 33 01 30 51-0224 EA 12" Coupling, 5" Middle Ring With Buna S Gasket.....                               | 727.84                    |                         |
| 33 01 30 51-0225 EA 12" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 936.19                    |                         |
| 33 01 30 51-0226 EA 14" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 1,079.62                  |                         |
| 33 01 30 51-0227 EA 16" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 1,284.54                  |                         |
| 33 01 30 51-0228 EA 18" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 1,412.31                  |                         |
| 33 01 30 51-0229 EA 20" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 1,524.53                  |                         |
| 33 01 30 51-0230 EA 22" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 1,897.06                  |                         |
| 33 01 30 51-0231 EA 24" Coupling, 7" Middle Ring With Buna S Gasket.....                               | 1,997.63                  |                         |
| <br><b>33 01 30 51-0232 Couplings For Steel Pipe</b> <small>(33 01 30 51-0079)</small>                 |                           |                         |
| <small>Note: Includes Buna S gasket, protected, Dresser style 38</small>                               |                           |                         |
| 33 01 30 51-0233 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....               | 83.47                     |                         |
| 33 01 30 51-0234 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                   | 100.64                    |                         |
| 33 01 30 51-0235 EA 1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 116.49                    |                         |
| 33 01 30 51-0236 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                 | 138.94                    |                         |
| 33 01 30 51-0237 EA 2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....                     | 202.65                    |                         |
| 33 01 30 51-0238 EA 2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 198.57                    |                         |
| 33 01 30 51-0239 EA 2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                     | 200.61                    |                         |
| 33 01 30 51-0240 EA 3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....                     | 294.22                    |                         |
| 33 01 30 51-0241 EA 3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 301.99                    |                         |
| 33 01 30 51-0242 EA 3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                     | 309.76                    |                         |
| 33 01 30 51-0243 EA 4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....                     | 346.03                    |                         |
| 33 01 30 51-0244 EA 4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 332.34                    |                         |
| 33 01 30 51-0245 EA 4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                     | 339.54                    |                         |
| 33 01 30 51-0246 EA 5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....                     | 445.62                    |                         |
| 33 01 30 51-0247 EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 449.42                    |                         |
| 33 01 30 51-0248 EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                     | 625.68                    |                         |
| 33 01 30 51-0249 EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....                     | 456.90                    |                         |
| 33 01 30 51-0250 EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 477.13                    |                         |
| 33 01 30 51-0251 EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                     | 484.93                    |                         |
| 33 01 30 51-0252 EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....                     | 568.74                    |                         |
| 33 01 30 51-0253 EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                     | 576.42                    |                         |
| 33 01 30 51-0254 EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                     | 588.79                    |                         |
| 33 01 30 51-0255 EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                    | 659.15                    |                         |
| 33 01 30 51-0256 EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 758.22                    |                         |
| 33 01 30 51-0257 EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....                    | 747.26                    |                         |
| 33 01 30 51-0258 EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 955.19                    |                         |
| 33 01 30 51-0259 EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 1,099.05                  |                         |
| 33 01 30 51-0260 EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 1,313.68                  |                         |
| 33 01 30 51-0261 EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 1,451.16                  |                         |
| 33 01 30 51-0262 EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 1,563.38                  |                         |
| 33 01 30 51-0263 EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....                    | 1,935.91                  |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....2,036.48

**33 01 30 51-0265****Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna N gasket, protected, Dresser style 38.

|                  |    |   |          |
|------------------|----|---|----------|
| 33 01 30 51-0266 | EA | 1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected | 97.28    |
| 33 01 30 51-0267 | EA | 3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected     | 114.70   |
| 33 01 30 51-0268 | EA | 1" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 132.98   |
| 33 01 30 51-0269 | EA | 1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected   | 160.37   |
| 33 01 30 51-0270 | EA | 2" Coupling, 4" Middle Ring With Buna N Gasket, Protected       | 202.65   |
| 33 01 30 51-0271 | EA | 2" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 237.34   |
| 33 01 30 51-0272 | EA | 2" Coupling, 7" Middle Ring With Buna N Gasket, Protected       | 248.88   |
| 33 01 30 51-0273 | EA | 3" Coupling, 4" Middle Ring With Buna N Gasket, Protected       | 294.22   |
| 33 01 30 51-0274 | EA | 3" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 301.99   |
| 33 01 30 51-0275 | EA | 3" Coupling, 7" Middle Ring With Buna N Gasket, Protected       | 309.76   |
| 33 01 30 51-0276 | EA | 4" Coupling, 4" Middle Ring With Buna N Gasket, Protected       | 346.03   |
| 33 01 30 51-0277 | EA | 4" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 373.73   |
| 33 01 30 51-0278 | EA | 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected       | 384.26   |
| 33 01 30 51-0279 | EA | 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected       | 445.62   |
| 33 01 30 51-0280 | EA | 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 449.42   |
| 33 01 30 51-0281 | EA | 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected       | 493.91   |
| 33 01 30 51-0282 | EA | 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected       | 456.90   |
| 33 01 30 51-0283 | EA | 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 477.13   |
| 33 01 30 51-0284 | EA | 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected       | 484.93   |
| 33 01 30 51-0285 | EA | 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected       | 568.74   |
| 33 01 30 51-0286 | EA | 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected       | 576.42   |
| 33 01 30 51-0287 | EA | 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected       | 588.79   |
| 33 01 30 51-0288 | EA | 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected      | 659.15   |
| 33 01 30 51-0289 | EA | 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 758.22   |
| 33 01 30 51-0290 | EA | 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected      | 747.26   |
| 33 01 30 51-0291 | EA | 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 955.19   |
| 33 01 30 51-0292 | EA | 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 1,099.05 |
| 33 01 30 51-0293 | EA | 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 1,284.54 |
| 33 01 30 51-0294 | EA | 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 1,451.16 |
| 33 01 30 51-0295 | EA | 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 1,563.38 |
| 33 01 30 51-0296 | EA | 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 1,935.91 |
| 33 01 30 51-0297 | EA | 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected      | 2,036.48 |

**33 01 30 51-0298****Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

|                  |    |  |          |
|------------------|----|--|----------|
| 33 01 30 51-0299 | EA | 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket   | 163.44   |
| 33 01 30 51-0300 | EA | 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 177.54   |
| 33 01 30 51-0301 | EA | 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket | 187.54   |
| 33 01 30 51-0302 | EA | 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket     | 284.82   |
| 33 01 30 51-0303 | EA | 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 306.07   |
| 33 01 30 51-0304 | EA | 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket     | 316.89   |
| 33 01 30 51-0305 | EA | 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 369.11   |
| 33 01 30 51-0306 | EA | 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket     | 366.66   |
| 33 01 30 51-0307 | EA | 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 412.58   |
| 33 01 30 51-0308 | EA | 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket     | 423.11   |
| 33 01 30 51-0309 | EA | 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 570.05   |
| 33 01 30 51-0310 | EA | 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket     | 584.02   |
| 33 01 30 51-0311 | EA | 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 608.95   |
| 33 01 30 51-0312 | EA | 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket     | 618.21   |
| 33 01 30 51-0313 | EA | 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket     | 635.39   |
| 33 01 30 51-0314 | EA | 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket     | 774.42   |
| 33 01 30 51-0315 | EA | 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket     | 831.12   |
| 33 01 30 51-0316 | EA | 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket    | 852.61   |
| 33 01 30 51-0317 | EA | 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 852.41   |
| 33 01 30 51-0318 | EA | 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket    | 1,078.15 |
| 33 01 30 51-0319 | EA | 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 1,120.85 |
| 33 01 30 51-0320 | EA | 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 1,294.15 |
| 33 01 30 51-0321 | EA | 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 1,614.42 |
| 33 01 30 51-0322 | EA | 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 1,583.25 |
| 33 01 30 51-0323 | EA | 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 1,763.46 |
| 33 01 30 51-0324 | EA | 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 1,910.66 |
| 33 01 30 51-0325 | EA | 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket    | 2,075.33 |

**33 01 30 51-0326****Grind Offset Joint (33 01 30 51-0001)**

|                  |    |                                      |        |
|------------------|----|--------------------------------------|--------|
| 33 01 30 51-0327 | EA | 6" To 10", Grind Drop Offset Joint   | 464.84 |
| 33 01 30 51-0328 | EA | >10" To 15", Grind Drop Offset Joint | 619.78 |
| 33 01 30 51-0329 | EA | >15" To 24", Grind Drop Offset Joint | 774.74 |
| 33 01 30 51-0330 | EA | >24" To 30", Grind Drop Offset Joint | 929.69 |

**33 01 30 51-0331****Pipe Plugging (33 01 30 51-0001)****33 01 30 51-0332****Gravity Bladder Type, Temporary Pipe Plugging (33 01 30 51-0331)**

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 33 01 30 51-0333 EA 3/4" Bladder Type, Temporary Pipe Plug.....               | 76.83  |                         |
| 33 01 30 51-0334 EA 1" Bladder Type, Temporary Pipe Plug.....                 | 82.22  |                         |
| 33 01 30 51-0335 EA 1-1/4" Bladder Type, Temporary Pipe Plug.....             | 88.76  |                         |
| 33 01 30 51-0336 EA 1-1/2" Bladder Type, Temporary Pipe Plug.....             | 94.84  |                         |
| 33 01 30 51-0337 EA 2" Bladder Type, Temporary Pipe Plug.....                 | 100.69   |                         |
| 33 01 30 51-0338 EA 2-1/2" Bladder Type, Temporary Pipe Plug.....             | 107.22   |                         |
| 33 01 30 51-0339 EA 3" Bladder Type, Temporary Pipe Plug.....                 | 115.50   |                         |
| 33 01 30 51-0340 EA 4" Bladder Type, Temporary Pipe Plug.....                 | 127.07   |                         |
| 33 01 30 51-0341 EA 5" Bladder Type, Temporary Pipe Plug.....                 | 137.69   |                         |
| 33 01 30 51-0342 EA 6" Bladder Type, Temporary Pipe Plug.....                 | 153.60   |                         |
| 33 01 30 51-0343 EA 8" Bladder Type, Temporary Pipe Plug.....                 | 170.53   |                         |
| 33 01 30 51-0344 EA 10" Bladder Type, Temporary Pipe Plug.....                | 197.65   |                         |
| 33 01 30 51-0345 EA 12" Bladder Type, Temporary Pipe Plug.....                | 231.31   |                         |
| 33 01 30 51-0346 EA 14" Bladder Type, Temporary Pipe Plug.....                | 275.28   |                         |
| 33 01 30 51-0347 EA 16" Bladder Type, Temporary Pipe Plug.....                | 331.63   |                         |
| 33 01 30 51-0348 EA 18" Bladder Type, Temporary Pipe Plug.....                | 399.33   |                         |
| 33 01 30 51-0349 EA 20" Bladder Type, Temporary Pipe Plug.....                | 475.80   |                         |
| 33 01 30 51-0350 EA 24" Bladder Type, Temporary Pipe Plug.....                | 549.35   |                         |
| <br>  |  |                         |
| <b>33 01 30 51-0351</b>   | <b>Hydra Stop, Hot Tapping Of Pressure Pipe <small>(33 01 30 51-0331)</small></b>  |                         |
|   | Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device. |                         |
| 33 01 30 51-0352 EA 2" Hydra Stop, Line Stopper.....                          | 2,724.53   |                         |
| 33 01 30 51-0353 EA 2-1/2" Hydra Stop, Line Stopper.....                      | 3,418.96   |                         |
| 33 01 30 51-0354 EA 3" Hydra Stop, Line Stopper.....                          | 4,193.19   |                         |
| 33 01 30 51-0355 EA 4" Hydra Stop, Line Stopper.....                          | 5,050.01   |                         |
| 33 01 30 51-0356 EA 5" Hydra Stop, Line Stopper.....                          | 5,680.72   |                         |
| 33 01 30 51-0357 EA 6" Hydra Stop, Line Stopper.....                          | 6,676.13   |                         |
| 33 01 30 51-0358 EA 8" Hydra Stop, Line Stopper.....                          | 7,306.83   |                         |
| 33 01 30 51-0359 EA 10" Hydra Stop, Line Stopper.....                         | 8,302.20   |                         |
| 33 01 30 51-0360 EA 12" Hydra Stop, Line Stopper.....                         | 9,297.60   |                         |
| 33 01 30 51-0361 EA 14" Hydra Stop, Line Stopper.....                         | 10,359.48  |                         |
| 33 01 30 51-0362 EA 16" Hydra Stop, Line Stopper.....                         | 11,820.45  |                         |
| 33 01 30 51-0363 EA 18" Hydra Stop, Line Stopper.....                         | 13,480.92  |                         |
| 33 01 30 51-0364 EA 20" Hydra Stop, Line Stopper.....                         | 16,072.35  |                         |
| <br>  |  |                         |
| <b>33 01 30 51-0365</b>   | <b>Aluminum Expansion Plugs <small>(33 01 30 51-0331)</small></b>  |                         |
|   | Note: For use with PVC, clay Or cast iron drainage pipe.   |                         |
| 33 01 30 51-0366 EA 3" Pipe Aluminum Expansion Plug.....                      | 82.20  |                         |
| 33 01 30 51-0367 EA 4" Pipe Aluminum Expansion Plug.....                      | 116.86   |                         |
| 33 01 30 51-0368 EA 5" Pipe Aluminum Expansion Plug.....                      | 131.53   |                         |
| 33 01 30 51-0369 EA 6" Pipe Aluminum Expansion Plug.....                      | 197.83   |                         |
| 33 01 30 51-0370 EA 8" Pipe Aluminum Expansion Plug.....                      | 203.50   |                         |
| 33 01 30 51-0371 EA 10" Pipe Aluminum Expansion Plug.....                     | 253.63   |                         |
| 33 01 30 51-0372 EA 12" Pipe Aluminum Expansion Plug.....                     | 341.31   |                         |
| 33 01 30 51-0373 EA 14" Pipe Aluminum Expansion Plug.....                     | 547.87   |                         |
| 33 01 30 51-0374 EA 15" Pipe Aluminum Expansion Plug.....                     | 593.05   |                         |
| <br>  |  |                         |
| <b>33 01 30 51-0375</b>   | <b>Pipe Repair Clamp, Stainless Steel, 3" Long <small>(33 01 30 51-0001)</small></b>   |                         |
| 33 01 30 51-0376 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....   | 197.19   |                         |
| 33 01 30 51-0377 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....   | 197.37   |                         |
| 33 01 30 51-0378 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....     | 197.81   |                         |
| 33 01 30 51-0379 EA 1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long..... | 198.25   |                         |
| 33 01 30 51-0380 EA 1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long..... | 198.47   |                         |
| 33 01 30 51-0381 EA 2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....     | 199.13   |                         |
| 33 01 30 51-0382 EA 2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long..... | 199.79   |                         |
| 33 01 30 51-0383 EA 3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....     | 200.67   |                         |
| 33 01 30 51-0384 EA 4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....     | 362.82   |                         |
| 33 01 30 51-0385 EA 6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....     | 365.68   |                         |
| 33 01 30 51-0386 EA 8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....     | 367.67   |                         |
| 33 01 30 51-0387 EA 10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 388.62   |                         |
| 33 01 30 51-0388 EA 12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 391.27   |                         |
| 33 01 30 51-0389 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 393.04   |                         |
| 33 01 30 51-0390 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 395.68   |                         |
| 33 01 30 51-0391 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 398.33   |                         |
| 33 01 30 51-0392 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 401.86   |                         |
| 33 01 30 51-0393 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....    | 408.03   |                         |
| <br>  |  |                         |
| <b>33 01 30 51-0394</b>   | <b>Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small></b>   |                         |
| 33 01 30 51-0395 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac)..... | 411.62   |                         |
| 33 01 30 51-0396 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac)..... | 465.20   |                         |
| <br>  |  |                         |
| <b>33 01 30 63</b>  | <b>Sewer and Pipe Joint Sealing <small>(33 01 30)</small></b>  |                         |
| <b>33 01 30 63-0001</b>   | <b>Joint Air Test <small>(33 01 30 63)</small></b>   |                         |
| 33 01 30 63-0002 EA 4" To 8", Joint Air Test.....                             | 113.84   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 63-0003 EA 10" To 15", Joint Air Test .....  | 132.81                    |                         |
| 33 01 30 63-0004 EA >15" To 21", Joint Air Test .....   | 151.78                    |                         |
| 33 01 30 63-0005 EA >21" To 24", Joint Air Test .....   | 189.73                    |                         |
| 33 01 30 63-0006 EA >24" To 27", Joint Air Test .....   | 227.67                    |                         |
| 33 01 30 63-0007 EA >27" To 36", Joint Air Test .....   | 265.62                    |                         |
| <b>33 01 30 63-0008 Joint Seal And Joint Air Retest (33 01 30 63)</b>   |                           |                         |
| Note: Includes grout.   |                           |                         |
| 33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest .....  | 339.42                    |                         |
| Note: Includes up to 1 gallon of grout.   |                           |                         |
| 33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest .....  | 377.37                    |                         |
| Note: Includes 1 gallon of grout.   |                           |                         |
| 33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest .....  | 451.17                    |                         |
| Note: Includes 2 gallons of grout.  |                           |                         |
| 33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest .....   | 507.06                    |                         |
| Note: Includes 2.5 gallons of grout.  |                           |                         |
| 33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest .....   | 562.93                    |                         |
| Note: Includes 3 gallons of grout.  |                           |                         |
| 33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest .....   | 665.71                    |                         |
| Note: Includes 3.75 gallons of grout.   |                           |                         |
| 33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest .....   | 768.50                    |                         |
| Note: Includes 4.5 gallons of grout.  |                           |                         |
| 33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest .....   | 871.29                    |                         |
| Note: Includes 5.25 gallons of grout.   |                           |                         |
| 33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest .....   | 1,012.02                  |                         |
| Note: Includes 6 gallons of grout.  |                           |                         |
| 33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest .....   | 1,152.75                  |                         |
| Note: Includes 6.75 gallons of grout.   |                           |                         |
| 33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest .....   | 1,331.44                  |                         |
| Note: Includes 7.5 gallons of grout.  |                           |                         |
| 33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest .....   | 1,537.02                  |                         |
| Note: Includes 9 gallons of grout.  |                           |                         |
| 33 01 30 63-0021 GAL Extra Grout Per Joint .....  | 187.64                    |                         |
| Note: For extra grout per joint required over listed amount.  |                           |                         |
| <b>33 01 30 71 Relining Sewers (33 01 30)</b>   |                           |                         |
| <b>33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)</b>  |                           |                         |
| Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning. |                           |                         |
| <b>33 01 30 71-0002 Lining Pipe With Rib Loc (33 01 30 71-0001)</b>   |                           |                         |
| 33 01 30 71-0003 LF Lining 6" Pipe With Rib Loc .....   | 49.32                     |                         |
| For >500 To 1,000, Deduct   | -1.25                     |                         |
| For >1,000 To 2,000, Deduct   | -2.43                     |                         |
| For >2,000 To 5,000, Deduct   | -3.74                     |                         |
| For >5,000, Deduct  | -5.58                     |                         |
| 33 01 30 71-0004 LF Lining 8" Pipe With Rib Loc .....   | 54.88                     |                         |
| For >500 To 1,000, Deduct   | -1.38                     |                         |
| For >1,000 To 2,000, Deduct   | -2.69                     |                         |
| For >2,000 To 5,000, Deduct   | -4.14                     |                         |
| For >5,000, Deduct  | -6.19                     |                         |
| 33 01 30 71-0005 LF Lining 10" Pipe With Rib Loc .....  | 76.33                     |                         |
| For >500 To 1,000, Deduct   | -1.83                     |                         |
| For >1,000 To 2,000, Deduct   | -3.59                     |                         |
| For >2,000 To 5,000, Deduct   | -5.50                     |                         |
| For >5,000, Deduct  | -8.40                     |                         |
| 33 01 30 71-0006 LF Lining 12" Pipe With Rib Loc .....  | 97.37                     |                         |
| For >500 To 1,000, Deduct   | -2.28                     |                         |
| For >1,000 To 2,000, Deduct   | -4.48                     |                         |
| For >2,000 To 5,000, Deduct   | -6.85                     |                         |
| For >5,000, Deduct  | -10.58                    |                         |
| 33 01 30 71-0007 LF Lining 15" Pipe With Rib Loc .....  | 129.87                    |                         |
| For >500 To 1,000, Deduct   | -2.98                     |                         |
| For >1,000 To 2,000, Deduct   | -5.87                     |                         |
| For >2,000 To 5,000, Deduct   | -8.94                     |                         |
| For >5,000, Deduct  | -13.95                    |                         |
| 33 01 30 71-0008 LF Lining 18" Pipe With Rib Loc .....  | 167.77                    |                         |
| For >500 To 1,000, Deduct   | -3.79                     |                         |
| For >1,000 To 2,000, Deduct   | -7.47                     |                         |
| For >2,000 To 5,000, Deduct   | -11.36                    |                         |
| For >5,000, Deduct  | -17.86                    |                         |
| 33 01 30 71-0009 LF Lining 21" Pipe With Rib Loc .....  | 210.97                    |                         |
| For >500 To 1,000, Deduct   | -4.69                     |                         |
| For >1,000 To 2,000, Deduct   | -9.26                     |                         |
| For >2,000 To 5,000, Deduct   | -14.06                    |                         |
| For >5,000, Deduct  | -22.27                    |                         |
| 33 01 30 71-0010 LF Lining 24" Pipe With Rib Loc .....  | 261.34                    |                         |
| For >500 To 1,000, Deduct   | -5.74                     |                         |
| For >1,000 To 2,000, Deduct   | -11.35                    |                         |
| For >2,000 To 5,000, Deduct   | -17.21                    |                         |
| For >5,000, Deduct  | -27.41                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 71-0011 LF Lining 27" Pipe With Rib Loc .....   | 313.27                    |                         |
| For >500 To 1,000, Deduct  | -6.83                     |                         |
| For >1,000 To 2,000, Deduct  | -13.51                    |                         |
| For >2,000 To 5,000, Deduct  | -20.48                    |                         |
| For >5,000, Deduct   | -32.73                    |                         |
| 33 01 30 71-0012 LF Lining 30" Pipe With Rib Loc .....   | 371.82                    |                         |
| For >500 To 1,000, Deduct  | -8.06                     |                         |
| For >1,000 To 2,000, Deduct  | -15.97                    |                         |
| For >2,000 To 5,000, Deduct  | -24.18                    |                         |
| For >5,000, Deduct   | -38.74                    |                         |
| 33 01 30 71-0013 LF Lining 36" Pipe With Rib Loc .....   | 474.51                    |                         |
| For >500 To 1,000, Deduct  | -10.19                    |                         |
| For >1,000 To 2,000, Deduct  | -20.21                    |                         |
| For >2,000 To 5,000, Deduct  | -30.58                    |                         |
| For >5,000, Deduct   | -49.21                    |                         |
| 33 01 30 71-0014 LF Lining 42" Pipe With Rib Loc .....   | 591.21                    |                         |
| For >500 To 1,000, Deduct  | -12.63                    |                         |
| For >1,000 To 2,000, Deduct  | -25.05                    |                         |
| For >2,000 To 5,000, Deduct  | -37.88                    |                         |
| For >5,000, Deduct   | -61.13                    |                         |
| 33 01 30 71-0015 LF Lining 48" Pipe With Rib Loc .....   | 723.84                    |                         |
| For >500 To 1,000, Deduct  | -15.41                    |                         |
| For >1,000 To 2,000, Deduct  | -30.59                    |                         |
| For >2,000 To 5,000, Deduct  | -46.24                    |                         |
| For >5,000, Deduct   | -74.73                    |                         |
| 33 01 30 71-0016 LF Lining 54" Pipe With Rib Loc .....   | 855.90                    |                         |
| For >500 To 1,000, Deduct  | -18.24                    |                         |
| For >1,000 To 2,000, Deduct  | -36.20                    |                         |
| For >2,000 To 5,000, Deduct  | -54.73                    |                         |
| For >5,000, Deduct   | -88.40                    |                         |
| 33 01 30 71-0017 LF Lining 60" Pipe With Rib Loc .....   | 1,009.64                  |                         |
| For >500 To 1,000, Deduct  | -21.73                    |                         |
| For >1,000 To 2,000, Deduct  | -43.07                    |                         |
| For >2,000 To 5,000, Deduct  | -65.18                    |                         |
| For >5,000, Deduct   | -104.80                   |                         |
| 33 01 30 71-0018 LF Lining 66" Pipe With Rib Loc .....   | 1,198.08                  |                         |
| For >500 To 1,000, Deduct  | -26.37                    |                         |
| For >1,000 To 2,000, Deduct  | -52.14                    |                         |
| For >2,000 To 5,000, Deduct  | -79.11                    |                         |
| For >5,000, Deduct   | -125.83                   |                         |
| 33 01 30 71-0019 LF Lining 72" Pipe With Rib Loc .....   | 1,445.14                  |                         |
| For >500 To 1,000, Deduct  | -33.12                    |                         |
| For >1,000 To 2,000, Deduct  | -65.18                    |                         |
| For >2,000 To 5,000, Deduct  | -99.36                    |                         |
| For >5,000, Deduct   | -155.05                   |                         |
| <br>33 01 30 71-0020 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>             |                           |                         |
| Note: Two part structural polyurethane.  |                           |                         |
| 33 01 30 71-0021 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0020)</small> |                           |                         |
| 33 01 30 71-0022 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....       | 1,769.49                  |                         |
| <br>33 01 30 71-0023 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>     |                           |                         |
| Note: Two part structural polyurethane.  |                           |                         |
| 33 01 30 71-0024 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....                     | 58.11                     |                         |
| For Up To 75, Add  | 12.58                     |                         |
| For >75 To 150, Add  | 5.81                      |                         |
| For >500 To 1,000, Deduct  | -1.54                     |                         |
| For >1,000 To 2,000, Deduct  | -2.99                     |                         |
| For >2,000 To 5,000, Deduct  | -4.63                     |                         |
| For >5,000, Deduct   | -6.77                     |                         |
| 33 01 30 71-0025 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....                     | 67.81                     |                         |
| For Up To 75, Add  | 14.68                     |                         |
| For >75 To 150, Add  | 6.78                      |                         |
| For >500 To 1,000, Deduct  | -1.80                     |                         |
| For >1,000 To 2,000, Deduct  | -3.49                     |                         |
| For >2,000 To 5,000, Deduct  | -5.40                     |                         |
| For >5,000, Deduct   | -7.89                     |                         |
| 33 01 30 71-0026 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....                     | 77.50                     |                         |
| For Up To 75, Add  | 16.77                     |                         |
| For >75 To 150, Add  | 7.75                      |                         |
| For >500 To 1,000, Deduct  | -2.06                     |                         |
| For >1,000 To 2,000, Deduct  | -3.99                     |                         |
| For >2,000 To 5,000, Deduct  | -6.18                     |                         |
| For >5,000, Deduct   | -9.02                     |                         |
| 33 01 30 71-0027 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....                     | 87.18                     |                         |
| For Up To 75, Add  | 18.87                     |                         |
| For >75 To 150, Add  | 8.72                      |                         |
| For >500 To 1,000, Deduct  | -2.32                     |                         |
| For >1,000 To 2,000, Deduct  | -4.49                     |                         |
| For >2,000 To 5,000, Deduct  | -6.95                     |                         |
| For >5,000, Deduct   | -10.15                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 71-0028 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 96.87                     |                         |
| For Up To 75, Add   | 20.96                     |                         |
| For >75 To 150, Add   | 9.69                      |                         |
| For >500 To 1,000, Deduct   | -2.57                     |                         |
| For >1,000 To 2,000, Deduct   | -4.99                     |                         |
| For >2,000 To 5,000, Deduct   | -7.72                     |                         |
| For >5,000, Deduct  | -11.28                    |                         |
| 33 01 30 71-0029 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 106.56                    |                         |
| For Up To 75, Add   | 23.06                     |                         |
| For >75 To 150, Add   | 10.66                     |                         |
| For >500 To 1,000, Deduct   | -2.83                     |                         |
| For >1,000 To 2,000, Deduct   | -5.49                     |                         |
| For >2,000 To 5,000, Deduct   | -8.49                     |                         |
| For >5,000, Deduct  | -12.41                    |                         |
| 33 01 30 71-0030 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 116.25                    |                         |
| For Up To 75, Add   | 25.16                     |                         |
| For >75 To 150, Add   | 11.63                     |                         |
| For >500 To 1,000, Deduct   | -3.09                     |                         |
| For >1,000 To 2,000, Deduct   | -5.99                     |                         |
| For >2,000 To 5,000, Deduct   | -9.27                     |                         |
| For >5,000, Deduct  | -13.53                    |                         |
| 33 01 30 71-0031 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 125.93                    |                         |
| For Up To 75, Add   | 27.25                     |                         |
| For >75 To 150, Add   | 12.59                     |                         |
| For >500 To 1,000, Deduct   | -3.35                     |                         |
| For >1,000 To 2,000, Deduct   | -6.48                     |                         |
| For >2,000 To 5,000, Deduct   | -10.04                    |                         |
| For >5,000, Deduct  | -14.66                    |                         |
| 33 01 30 71-0032 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 135.62                    |                         |
| For Up To 75, Add   | 29.35                     |                         |
| For >75 To 150, Add   | 13.56                     |                         |
| For >500 To 1,000, Deduct   | -3.60                     |                         |
| For >1,000 To 2,000, Deduct   | -6.98                     |                         |
| For >2,000 To 5,000, Deduct   | -10.81                    |                         |
| For >5,000, Deduct  | -15.79                    |                         |
| 33 01 30 71-0033 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 145.30                    |                         |
| For Up To 75, Add   | 31.45                     |                         |
| For >75 To 150, Add   | 14.53                     |                         |
| For >500 To 1,000, Deduct   | -3.86                     |                         |
| For >1,000 To 2,000, Deduct   | -7.48                     |                         |
| For >2,000 To 5,000, Deduct   | -11.58                    |                         |
| For >5,000, Deduct  | -16.92                    |                         |
| 33 01 30 71-0034 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....  | 154.99                    |                         |
| For Up To 75, Add   | 33.54                     |                         |
| For >75 To 150, Add   | 15.50                     |                         |
| For >500 To 1,000, Deduct   | -4.12                     |                         |
| For >1,000 To 2,000, Deduct   | -7.98                     |                         |
| For >2,000 To 5,000, Deduct   | -12.35                    |                         |
| For >5,000, Deduct  | -18.04                    |                         |
| 33 01 30 71-0035 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ..... | 164.68                    |                         |
| For Up To 75, Add   | 35.64                     |                         |
| For >75 To 150, Add   | 16.47                     |                         |
| For >500 To 1,000, Deduct   | -4.38                     |                         |
| For >1,000 To 2,000, Deduct   | -8.48                     |                         |
| For >2,000 To 5,000, Deduct   | -13.13                    |                         |
| For >5,000, Deduct  | -19.17                    |                         |
| 33 01 30 71-0036 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ..... | 174.36                    |                         |
| For Up To 75, Add   | 37.74                     |                         |
| For >75 To 150, Add   | 17.44                     |                         |
| For >500 To 1,000, Deduct   | -4.63                     |                         |
| For >1,000 To 2,000, Deduct   | -8.98                     |                         |
| For >2,000 To 5,000, Deduct   | -13.90                    |                         |
| For >5,000, Deduct  | -20.30                    |                         |
| 33 01 30 71-0037 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ..... | 184.06                    |                         |
| For Up To 75, Add   | 39.83                     |                         |
| For >75 To 150, Add   | 18.41                     |                         |
| For >500 To 1,000, Deduct   | -4.89                     |                         |
| For >1,000 To 2,000, Deduct   | -9.48                     |                         |
| For >2,000 To 5,000, Deduct   | -14.67                    |                         |
| For >5,000, Deduct  | -21.43                    |                         |
| 33 01 30 71-0038 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ..... | 193.74                    |                         |
| For Up To 75, Add   | 41.93                     |                         |
| For >75 To 150, Add   | 19.37                     |                         |
| For >500 To 1,000, Deduct   | -5.15                     |                         |
| For >1,000 To 2,000, Deduct   | -9.98                     |                         |
| For >2,000 To 5,000, Deduct   | -15.44                    |                         |
| For >5,000, Deduct  | -22.56                    |                         |
| 33 01 30 71-0039 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane .....          | 6.16                      |                         |

33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0020)

Note: Two part structural polyurethane.



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 71-0041 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 78.69                     |                         |
| <i>For Up To 75, Add</i>   | 16.74                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 7.87                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -1.98                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -3.85                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -5.93                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -8.87                     |                         |
| 33 01 30 71-0042 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 91.79                     |                         |
| <i>For Up To 75, Add</i>   | 19.53                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 9.18                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -2.30                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -4.49                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -6.91                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -10.35                    |                         |
| 33 01 30 71-0043 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 104.91                    |                         |
| <i>For Up To 75, Add</i>   | 22.32                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 10.49                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -2.63                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -5.13                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -7.90                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -11.83                    |                         |
| 33 01 30 71-0044 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 118.01                    |                         |
| <i>For Up To 75, Add</i>   | 25.11                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 11.80                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -2.96                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -5.77                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -8.89                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -13.31                    |                         |
| 33 01 30 71-0045 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 131.14                    |                         |
| <i>For Up To 75, Add</i>   | 27.90                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 13.11                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -3.29                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -6.42                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -9.88                     |                         |
| <i>For &gt;5,000, Deduct</i>   | -14.79                    |                         |
| 33 01 30 71-0046 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 144.24                    |                         |
| <i>For Up To 75, Add</i>   | 30.69                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 14.42                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -3.62                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -7.06                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -10.86                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -16.27                    |                         |
| 33 01 30 71-0047 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 157.36                    |                         |
| <i>For Up To 75, Add</i>   | 33.48                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 15.74                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -3.95                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -7.70                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -11.85                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -17.75                    |                         |
| 33 01 30 71-0048 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 170.47                    |                         |
| <i>For Up To 75, Add</i>   | 36.27                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 17.05                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -4.28                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -8.34                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -12.84                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -19.22                    |                         |
| 33 01 30 71-0049 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 183.59                    |                         |
| <i>For Up To 75, Add</i>   | 39.06                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 18.36                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -4.61                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -8.98                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -13.83                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -20.70                    |                         |
| 33 01 30 71-0050 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 196.70                    |                         |
| <i>For Up To 75, Add</i>   | 41.85                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 19.67                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -4.94                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -9.63                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -14.82                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -22.18                    |                         |
| 33 01 30 71-0051 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....  | 209.82                    |                         |
| <i>For Up To 75, Add</i>   | 44.64                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 20.98                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -5.27                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -10.27                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -15.80                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -23.66                    |                         |
| 33 01 30 71-0052 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane..... | 222.93                    |                         |
| <i>For Up To 75, Add</i>   | 47.43                     |                         |
| <i>For &gt;75 To 150, Add</i>  | 22.29                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>  | -5.60                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>  | -10.91                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>  | -16.79                    |                         |
| <i>For &gt;5,000, Deduct</i>   | -25.14                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 71-0053 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....    | 236.05                    |                         |
| For Up To 75, Add  | 50.22                     |                         |
| For >75 To 150, Add  | 23.61                     |                         |
| For >500 To 1,000, Deduct  | -5.93                     |                         |
| For >1,000 To 2,000, Deduct  | -11.55                    |                         |
| For >2,000 To 5,000, Deduct  | -17.78                    |                         |
| For >5,000, Deduct   | -26.62                    |                         |
| 33 01 30 71-0054 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....    | 249.15                    |                         |
| For Up To 75, Add  | 53.01                     |                         |
| For >75 To 150, Add  | 24.92                     |                         |
| For >500 To 1,000, Deduct  | -6.26                     |                         |
| For >1,000 To 2,000, Deduct  | -12.19                    |                         |
| For >2,000 To 5,000, Deduct  | -18.77                    |                         |
| For >5,000, Deduct   | -28.10                    |                         |
| 33 01 30 71-0055 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....    | 262.28                    |                         |
| For Up To 75, Add  | 55.81                     |                         |
| For >75 To 150, Add  | 26.23                     |                         |
| For >500 To 1,000, Deduct  | -6.59                     |                         |
| For >1,000 To 2,000, Deduct  | -12.84                    |                         |
| For >2,000 To 5,000, Deduct  | -19.76                    |                         |
| For >5,000, Deduct   | -29.58                    |                         |
| 33 01 30 71-0056 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane .....             | 8.35                      |                         |
| <b>33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0020)</b> |                           |                         |
| Note: Two part structural polyurethane.  |                           |                         |
| 33 01 30 71-0058 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 99.21                     |                         |
| For Up To 75, Add  | 20.90                     |                         |
| For >75 To 150, Add  | 9.92                      |                         |
| For >500 To 1,000, Deduct  | -2.41                     |                         |
| For >1,000 To 2,000, Deduct  | -4.71                     |                         |
| For >2,000 To 5,000, Deduct  | -7.22                     |                         |
| For >5,000, Deduct   | -10.98                    |                         |
| 33 01 30 71-0059 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 115.75                    |                         |
| For Up To 75, Add  | 24.38                     |                         |
| For >75 To 150, Add  | 11.58                     |                         |
| For >500 To 1,000, Deduct  | -2.81                     |                         |
| For >1,000 To 2,000, Deduct  | -5.49                     |                         |
| For >2,000 To 5,000, Deduct  | -8.43                     |                         |
| For >5,000, Deduct   | -12.81                    |                         |
| 33 01 30 71-0060 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 132.28                    |                         |
| For Up To 75, Add  | 27.87                     |                         |
| For >75 To 150, Add  | 13.23                     |                         |
| For >500 To 1,000, Deduct  | -3.21                     |                         |
| For >1,000 To 2,000, Deduct  | -6.28                     |                         |
| For >2,000 To 5,000, Deduct  | -9.63                     |                         |
| For >5,000, Deduct   | -14.64                    |                         |
| 33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 148.83                    |                         |
| For Up To 75, Add  | 31.35                     |                         |
| For >75 To 150, Add  | 14.88                     |                         |
| For >500 To 1,000, Deduct  | -3.61                     |                         |
| For >1,000 To 2,000, Deduct  | -7.06                     |                         |
| For >2,000 To 5,000, Deduct  | -10.83                    |                         |
| For >5,000, Deduct   | -16.47                    |                         |
| 33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 165.37                    |                         |
| For Up To 75, Add  | 34.84                     |                         |
| For >75 To 150, Add  | 16.54                     |                         |
| For >500 To 1,000, Deduct  | -4.01                     |                         |
| For >1,000 To 2,000, Deduct  | -7.85                     |                         |
| For >2,000 To 5,000, Deduct  | -12.04                    |                         |
| For >5,000, Deduct   | -18.30                    |                         |
| 33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 181.90                    |                         |
| For Up To 75, Add  | 38.32                     |                         |
| For >75 To 150, Add  | 18.19                     |                         |
| For >500 To 1,000, Deduct  | -4.41                     |                         |
| For >1,000 To 2,000, Deduct  | -8.63                     |                         |
| For >2,000 To 5,000, Deduct  | -13.24                    |                         |
| For >5,000, Deduct   | -20.13                    |                         |
| 33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 198.44                    |                         |
| For Up To 75, Add  | 41.80                     |                         |
| For >75 To 150, Add  | 19.84                     |                         |
| For >500 To 1,000, Deduct  | -4.81                     |                         |
| For >1,000 To 2,000, Deduct  | -9.42                     |                         |
| For >2,000 To 5,000, Deduct  | -14.44                    |                         |
| For >5,000, Deduct   | -21.96                    |                         |
| 33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....     | 214.97                    |                         |
| For Up To 75, Add  | 45.29                     |                         |
| For >75 To 150, Add  | 21.50                     |                         |
| For >500 To 1,000, Deduct  | -5.22                     |                         |
| For >1,000 To 2,000, Deduct  | -10.20                    |                         |
| For >2,000 To 5,000, Deduct  | -15.65                    |                         |
| For >5,000, Deduct   | -23.79                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 71-0066 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                    | 231.52                    |                         |
| <i>For Up To 75, Add</i>  | 48.77                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 23.15                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -5.62                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -10.99                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -16.85                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -25.62                    |                         |
| 33 01 30 71-0067 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                    | 248.04                    |                         |
| <i>For Up To 75, Add</i>  | 52.25                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 24.80                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.02                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -11.77                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -18.05                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -27.45                    |                         |
| 33 01 30 71-0068 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                    | 264.58                    |                         |
| <i>For Up To 75, Add</i>  | 55.74                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 26.46                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.42                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -12.56                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -19.26                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -29.28                    |                         |
| 33 01 30 71-0069 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                   | 281.12                    |                         |
| <i>For Up To 75, Add</i>  | 59.22                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 28.11                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.82                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -13.34                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -20.46                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -31.11                    |                         |
| 33 01 30 71-0070 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                   | 297.65                    |                         |
| <i>For Up To 75, Add</i>  | 62.70                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 29.77                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -7.22                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -14.13                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -21.67                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -32.94                    |                         |
| 33 01 30 71-0071 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                   | 314.20                    |                         |
| <i>For Up To 75, Add</i>  | 66.19                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 31.42                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -7.62                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -14.91                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -22.87                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -34.77                    |                         |
| 33 01 30 71-0072 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....                   | 330.73                    |                         |
| <i>For Up To 75, Add</i>  | 69.67                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 33.07                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -8.02                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -15.70                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -24.07                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -36.60                    |                         |
| 33 01 30 71-0073 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane .....                            | 10.53                     |                         |
| <b>33 01 30 71-0074 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane</b> <small>(33 01 30 71-0020)</small> |                           |                         |
| Note: Two part structural polyurethane.   |                           |                         |
| 33 01 30 71-0075 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....                    | 119.85                    |                         |
| <i>For Up To 75, Add</i>  | 25.08                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 11.99                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -2.84                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -5.57                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -8.53                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -13.10                    |                         |
| 33 01 30 71-0076 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....                    | 139.83                    |                         |
| <i>For Up To 75, Add</i>  | 29.27                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 13.98                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -3.32                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -6.50                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -9.95                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -15.28                    |                         |
| 33 01 30 71-0077 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....                    | 159.80                    |                         |
| <i>For Up To 75, Add</i>  | 33.44                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 15.98                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -3.79                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -7.43                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -11.37                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -17.46                    |                         |
| 33 01 30 71-0078 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....                    | 179.77                    |                         |
| <i>For Up To 75, Add</i>  | 37.62                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 17.98                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -4.26                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -8.36                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -12.79                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -19.65                    |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 71-0079 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 199.74                    |                         |
| For Up To 75, Add   | 41.80                     |                         |
| For >75 To 150, Add   | 19.97                     |                         |
| For >500 To 1,000, Deduct   | -4.74                     |                         |
| For >1,000 To 2,000, Deduct   | -9.29                     |                         |
| For >2,000 To 5,000, Deduct   | -14.21                    |                         |
| For >5,000, Deduct  | -21.83                    |                         |
| 33 01 30 71-0080 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 219.73                    |                         |
| For Up To 75, Add   | 45.99                     |                         |
| For >75 To 150, Add   | 21.97                     |                         |
| For >500 To 1,000, Deduct   | -5.21                     |                         |
| For >1,000 To 2,000, Deduct   | -10.22                    |                         |
| For >2,000 To 5,000, Deduct   | -15.63                    |                         |
| For >5,000, Deduct  | -24.01                    |                         |
| 33 01 30 71-0081 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 239.70                    |                         |
| For Up To 75, Add   | 50.17                     |                         |
| For >75 To 150, Add   | 23.97                     |                         |
| For >500 To 1,000, Deduct   | -5.68                     |                         |
| For >1,000 To 2,000, Deduct   | -11.15                    |                         |
| For >2,000 To 5,000, Deduct   | -17.05                    |                         |
| For >5,000, Deduct  | -26.20                    |                         |
| 33 01 30 71-0082 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 259.68                    |                         |
| For Up To 75, Add   | 54.35                     |                         |
| For >75 To 150, Add   | 25.97                     |                         |
| For >500 To 1,000, Deduct   | -6.16                     |                         |
| For >1,000 To 2,000, Deduct   | -12.08                    |                         |
| For >2,000 To 5,000, Deduct   | -18.48                    |                         |
| For >5,000, Deduct  | -28.38                    |                         |
| 33 01 30 71-0083 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 279.64                    |                         |
| For Up To 75, Add   | 58.53                     |                         |
| For >75 To 150, Add   | 27.96                     |                         |
| For >500 To 1,000, Deduct   | -6.63                     |                         |
| For >1,000 To 2,000, Deduct   | -13.00                    |                         |
| For >2,000 To 5,000, Deduct   | -19.89                    |                         |
| For >5,000, Deduct  | -30.56                    |                         |
| 33 01 30 71-0084 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 299.63                    |                         |
| For Up To 75, Add   | 62.71                     |                         |
| For >75 To 150, Add   | 29.96                     |                         |
| For >500 To 1,000, Deduct   | -7.11                     |                         |
| For >1,000 To 2,000, Deduct   | -13.93                    |                         |
| For >2,000 To 5,000, Deduct   | -21.32                    |                         |
| For >5,000, Deduct  | -32.75                    |                         |
| 33 01 30 71-0085 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....  | 319.59                    |                         |
| For Up To 75, Add   | 66.89                     |                         |
| For >75 To 150, Add   | 31.96                     |                         |
| For >500 To 1,000, Deduct   | -7.58                     |                         |
| For >1,000 To 2,000, Deduct   | -14.86                    |                         |
| For >2,000 To 5,000, Deduct   | -22.74                    |                         |
| For >5,000, Deduct  | -34.93                    |                         |
| 33 01 30 71-0086 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane ..... | 339.57                    |                         |
| For Up To 75, Add   | 71.07                     |                         |
| For >75 To 150, Add   | 33.96                     |                         |
| For >500 To 1,000, Deduct   | -8.05                     |                         |
| For >1,000 To 2,000, Deduct   | -15.79                    |                         |
| For >2,000 To 5,000, Deduct   | -24.16                    |                         |
| For >5,000, Deduct  | -37.11                    |                         |
| 33 01 30 71-0087 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane ..... | 359.55                    |                         |
| For Up To 75, Add   | 75.25                     |                         |
| For >75 To 150, Add   | 35.96                     |                         |
| For >500 To 1,000, Deduct   | -8.53                     |                         |
| For >1,000 To 2,000, Deduct   | -16.72                    |                         |
| For >2,000 To 5,000, Deduct   | -25.58                    |                         |
| For >5,000, Deduct  | -39.29                    |                         |
| 33 01 30 71-0088 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane ..... | 379.52                    |                         |
| For Up To 75, Add   | 79.43                     |                         |
| For >75 To 150, Add   | 37.95                     |                         |
| For >500 To 1,000, Deduct   | -9.00                     |                         |
| For >1,000 To 2,000, Deduct   | -17.65                    |                         |
| For >2,000 To 5,000, Deduct   | -27.00                    |                         |
| For >5,000, Deduct  | -41.48                    |                         |
| 33 01 30 71-0089 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane ..... | 399.50                    |                         |
| For Up To 75, Add   | 83.61                     |                         |
| For >75 To 150, Add   | 39.95                     |                         |
| For >500 To 1,000, Deduct   | -9.47                     |                         |
| For >1,000 To 2,000, Deduct   | -18.58                    |                         |
| For >2,000 To 5,000, Deduct   | -28.42                    |                         |
| For >5,000, Deduct  | -43.66                    |                         |
| 33 01 30 71-0090 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane .....          | 12.71                     |                         |

33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0020)

Note: Two part structural polyurethane.



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 71-0092 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 140.62                    |                         |
| <i>For Up To 75, Add</i>  | 29.30                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 14.06                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -3.28                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -6.45                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -9.84                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -15.23                    |                         |
| 33 01 30 71-0093 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 164.05                    |                         |
| <i>For Up To 75, Add</i>  | 34.18                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 16.41                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -3.83                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -7.52                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -11.48                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -17.77                    |                         |
| 33 01 30 71-0094 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 187.49                    |                         |
| <i>For Up To 75, Add</i>  | 39.06                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 18.75                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -4.37                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -8.59                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -13.12                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -20.31                    |                         |
| 33 01 30 71-0095 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 210.92                    |                         |
| <i>For Up To 75, Add</i>  | 43.94                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 21.09                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -4.92                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -9.67                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -14.76                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -22.85                    |                         |
| 33 01 30 71-0096 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 234.37                    |                         |
| <i>For Up To 75, Add</i>  | 48.83                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 23.44                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -5.47                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -10.74                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -16.41                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -25.39                    |                         |
| 33 01 30 71-0097 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 257.79                    |                         |
| <i>For Up To 75, Add</i>  | 53.71                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 25.78                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.02                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -11.82                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -18.05                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -27.93                    |                         |
| 33 01 30 71-0098 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 281.22                    |                         |
| <i>For Up To 75, Add</i>  | 58.59                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 28.12                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.56                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -12.89                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -19.69                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -30.47                    |                         |
| 33 01 30 71-0099 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 304.66                    |                         |
| <i>For Up To 75, Add</i>  | 63.47                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 30.47                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -7.11                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -13.96                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -21.33                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -33.01                    |                         |
| 33 01 30 71-0100 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 328.09                    |                         |
| <i>For Up To 75, Add</i>  | 68.35                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 32.81                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -7.66                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -15.04                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -22.97                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -35.54                    |                         |
| 33 01 30 71-0101 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 351.53                    |                         |
| <i>For Up To 75, Add</i>  | 73.24                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 35.15                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -8.20                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -16.11                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -24.61                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -38.08                    |                         |
| 33 01 30 71-0102 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....  | 374.96                    |                         |
| <i>For Up To 75, Add</i>  | 78.12                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 37.50                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -8.75                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -17.19                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -26.25                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -40.62                    |                         |
| 33 01 30 71-0103 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane ..... | 398.40                    |                         |
| <i>For Up To 75, Add</i>  | 83.00                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 39.84                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -9.30                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -18.26                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -27.89                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -43.16                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 71-0104 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....    | 421.84                    |                         |
| For Up To 75, Add  | 87.88                     |                         |
| For >75 To 150, Add  | 42.18                     |                         |
| For >500 To 1,000, Deduct  | -9.84                     |                         |
| For >1,000 To 2,000, Deduct  | -19.33                    |                         |
| For >2,000 To 5,000, Deduct  | -29.53                    |                         |
| For >5,000, Deduct   | -45.70                    |                         |
| 33 01 30 71-0105 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....    | 445.27                    |                         |
| For Up To 75, Add  | 92.76                     |                         |
| For >75 To 150, Add  | 44.53                     |                         |
| For >500 To 1,000, Deduct  | -10.39                    |                         |
| For >1,000 To 2,000, Deduct  | -20.41                    |                         |
| For >2,000 To 5,000, Deduct  | -31.17                    |                         |
| For >5,000, Deduct   | -48.24                    |                         |
| 33 01 30 71-0106 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....    | 468.70                    |                         |
| For Up To 75, Add  | 97.65                     |                         |
| For >75 To 150, Add  | 46.87                     |                         |
| For >500 To 1,000, Deduct  | -10.94                    |                         |
| For >1,000 To 2,000, Deduct  | -21.48                    |                         |
| For >2,000 To 5,000, Deduct  | -32.81                    |                         |
| For >5,000, Deduct   | -50.78                    |                         |
| 33 01 30 71-0107 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane .....             | 14.92                     |                         |
| <b>33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0020)</b> |                           |                         |
| Note: Two part structural polyurethane.  |                           |                         |
| 33 01 30 71-0109 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 182.17                    |                         |
| For Up To 75, Add  | 37.74                     |                         |
| For >75 To 150, Add  | 18.22                     |                         |
| For >500 To 1,000, Deduct  | -4.16                     |                         |
| For >1,000 To 2,000, Deduct  | -8.20                     |                         |
| For >2,000 To 5,000, Deduct  | -12.49                    |                         |
| For >5,000, Deduct   | -19.52                    |                         |
| 33 01 30 71-0110 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 212.54                    |                         |
| For Up To 75, Add  | 44.03                     |                         |
| For >75 To 150, Add  | 21.25                     |                         |
| For >500 To 1,000, Deduct  | -4.86                     |                         |
| For >1,000 To 2,000, Deduct  | -9.56                     |                         |
| For >2,000 To 5,000, Deduct  | -14.58                    |                         |
| For >5,000, Deduct   | -22.77                    |                         |
| 33 01 30 71-0111 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 242.90                    |                         |
| For Up To 75, Add  | 50.32                     |                         |
| For >75 To 150, Add  | 24.29                     |                         |
| For >500 To 1,000, Deduct  | -5.55                     |                         |
| For >1,000 To 2,000, Deduct  | -10.93                    |                         |
| For >2,000 To 5,000, Deduct  | -16.66                    |                         |
| For >5,000, Deduct   | -26.03                    |                         |
| 33 01 30 71-0112 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 273.28                    |                         |
| For Up To 75, Add  | 56.61                     |                         |
| For >75 To 150, Add  | 27.33                     |                         |
| For >500 To 1,000, Deduct  | -6.25                     |                         |
| For >1,000 To 2,000, Deduct  | -12.30                    |                         |
| For >2,000 To 5,000, Deduct  | -18.74                    |                         |
| For >5,000, Deduct   | -29.28                    |                         |
| 33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 303.63                    |                         |
| For Up To 75, Add  | 62.90                     |                         |
| For >75 To 150, Add  | 30.36                     |                         |
| For >500 To 1,000, Deduct  | -6.94                     |                         |
| For >1,000 To 2,000, Deduct  | -13.66                    |                         |
| For >2,000 To 5,000, Deduct  | -20.82                    |                         |
| For >5,000, Deduct   | -32.53                    |                         |
| 33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 333.99                    |                         |
| For Up To 75, Add  | 69.19                     |                         |
| For >75 To 150, Add  | 33.40                     |                         |
| For >500 To 1,000, Deduct  | -7.63                     |                         |
| For >1,000 To 2,000, Deduct  | -15.03                    |                         |
| For >2,000 To 5,000, Deduct  | -22.90                    |                         |
| For >5,000, Deduct   | -35.79                    |                         |
| 33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 364.36                    |                         |
| For Up To 75, Add  | 75.48                     |                         |
| For >75 To 150, Add  | 36.44                     |                         |
| For >500 To 1,000, Deduct  | -8.33                     |                         |
| For >1,000 To 2,000, Deduct  | -16.40                    |                         |
| For >2,000 To 5,000, Deduct  | -24.99                    |                         |
| For >5,000, Deduct   | -39.04                    |                         |
| 33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....     | 394.72                    |                         |
| For Up To 75, Add  | 81.77                     |                         |
| For >75 To 150, Add  | 39.47                     |                         |
| For >500 To 1,000, Deduct  | -9.02                     |                         |
| For >1,000 To 2,000, Deduct  | -17.76                    |                         |
| For >2,000 To 5,000, Deduct  | -27.07                    |                         |
| For >5,000, Deduct   | -42.29                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 71-0117 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                    | 425.07                    |                         |
| <i>For Up To 75, Add</i>  | 88.05                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 42.51                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -9.72                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -19.13                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -29.15                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -45.54                    |                         |
| 33 01 30 71-0118 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                    | 455.45                    |                         |
| <i>For Up To 75, Add</i>  | 94.35                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 45.55                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -10.41                    |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -20.50                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -31.23                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -48.80                    |                         |
| 33 01 30 71-0119 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                    | 485.80                    |                         |
| <i>For Up To 75, Add</i>  | 100.63                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 48.58                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -11.10                    |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -21.86                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -33.31                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -52.05                    |                         |
| 33 01 30 71-0120 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                   | 516.17                    |                         |
| <i>For Up To 75, Add</i>  | 106.92                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 51.62                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -11.80                    |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -23.23                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -35.40                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -55.31                    |                         |
| 33 01 30 71-0121 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                   | 546.53                    |                         |
| <i>For Up To 75, Add</i>  | 113.21                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 54.65                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -12.49                    |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -24.60                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -37.48                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -58.56                    |                         |
| 33 01 30 71-0122 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                   | 576.89                    |                         |
| <i>For Up To 75, Add</i>  | 119.50                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 57.69                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -13.19                    |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -25.96                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -39.56                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -61.81                    |                         |
| 33 01 30 71-0123 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....                   | 607.26                    |                         |
| <i>For Up To 75, Add</i>  | 125.79                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 60.73                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -13.88                    |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -27.33                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -41.64                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -65.07                    |                         |
| 33 01 30 71-0124 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane .....                            | 19.33                     |                         |
| <b>33 01 30 71-0125 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane</b> <small>(33 01 30 71-0020)</small> |                           |                         |
| Note: Two part structural polyurethane.   |                           |                         |
| 33 01 30 71-0126 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....                    | 224.10                    |                         |
| <i>For Up To 75, Add</i>  | 46.27                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 22.41                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -5.06                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -9.98                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -15.18                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -23.86                    |                         |
| 33 01 30 71-0127 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....                    | 261.45                    |                         |
| <i>For Up To 75, Add</i>  | 53.98                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 26.15                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -5.90                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -11.64                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -17.71                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -27.83                    |                         |
| 33 01 30 71-0128 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....                    | 298.80                    |                         |
| <i>For Up To 75, Add</i>  | 61.69                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 29.88                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.75                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -13.30                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -20.24                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -31.81                    |                         |
| 33 01 30 71-0129 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....                    | 336.16                    |                         |
| <i>For Up To 75, Add</i>  | 69.40                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 33.62                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -7.59                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -14.97                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -22.77                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -35.79                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 71-0130 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 373.51                    |                         |
| For Up To 75, Add   | 77.11                     |                         |
| For >75 To 150, Add   | 37.35                     |                         |
| For >500 To 1,000, Deduct   | -8.43                     |                         |
| For >1,000 To 2,000, Deduct   | -16.63                    |                         |
| For >2,000 To 5,000, Deduct   | -25.30                    |                         |
| For >5,000, Deduct  | -39.76                    |                         |
| 33 01 30 71-0131 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 410.86                    |                         |
| For Up To 75, Add   | 84.82                     |                         |
| For >75 To 150, Add   | 41.09                     |                         |
| For >500 To 1,000, Deduct   | -9.28                     |                         |
| For >1,000 To 2,000, Deduct   | -18.29                    |                         |
| For >2,000 To 5,000, Deduct   | -27.83                    |                         |
| For >5,000, Deduct  | -43.74                    |                         |
| 33 01 30 71-0132 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 448.21                    |                         |
| For Up To 75, Add   | 92.54                     |                         |
| For >75 To 150, Add   | 44.82                     |                         |
| For >500 To 1,000, Deduct   | -10.12                    |                         |
| For >1,000 To 2,000, Deduct   | -19.95                    |                         |
| For >2,000 To 5,000, Deduct   | -30.36                    |                         |
| For >5,000, Deduct  | -47.71                    |                         |
| 33 01 30 71-0133 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 485.56                    |                         |
| For Up To 75, Add   | 100.25                    |                         |
| For >75 To 150, Add   | 48.56                     |                         |
| For >500 To 1,000, Deduct   | -10.96                    |                         |
| For >1,000 To 2,000, Deduct   | -21.62                    |                         |
| For >2,000 To 5,000, Deduct   | -32.89                    |                         |
| For >5,000, Deduct  | -51.69                    |                         |
| 33 01 30 71-0134 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 522.90                    |                         |
| For Up To 75, Add   | 107.96                    |                         |
| For >75 To 150, Add   | 52.29                     |                         |
| For >500 To 1,000, Deduct   | -11.81                    |                         |
| For >1,000 To 2,000, Deduct   | -23.28                    |                         |
| For >2,000 To 5,000, Deduct   | -35.42                    |                         |
| For >5,000, Deduct  | -55.67                    |                         |
| 33 01 30 71-0135 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 560.26                    |                         |
| For Up To 75, Add   | 115.67                    |                         |
| For >75 To 150, Add   | 56.03                     |                         |
| For >500 To 1,000, Deduct   | -12.65                    |                         |
| For >1,000 To 2,000, Deduct   | -24.94                    |                         |
| For >2,000 To 5,000, Deduct   | -37.96                    |                         |
| For >5,000, Deduct  | -59.64                    |                         |
| 33 01 30 71-0136 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....  | 597.61                    |                         |
| For Up To 75, Add   | 123.38                    |                         |
| For >75 To 150, Add   | 59.76                     |                         |
| For >500 To 1,000, Deduct   | -13.50                    |                         |
| For >1,000 To 2,000, Deduct   | -26.60                    |                         |
| For >2,000 To 5,000, Deduct   | -40.49                    |                         |
| For >5,000, Deduct  | -63.62                    |                         |
| 33 01 30 71-0137 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane ..... | 634.96                    |                         |
| For Up To 75, Add   | 131.09                    |                         |
| For >75 To 150, Add   | 63.50                     |                         |
| For >500 To 1,000, Deduct   | -14.34                    |                         |
| For >1,000 To 2,000, Deduct   | -28.27                    |                         |
| For >2,000 To 5,000, Deduct   | -43.02                    |                         |
| For >5,000, Deduct  | -67.59                    |                         |
| 33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane ..... | 672.32                    |                         |
| For Up To 75, Add   | 138.80                    |                         |
| For >75 To 150, Add   | 67.23                     |                         |
| For >500 To 1,000, Deduct   | -15.18                    |                         |
| For >1,000 To 2,000, Deduct   | -29.93                    |                         |
| For >2,000 To 5,000, Deduct   | -45.55                    |                         |
| For >5,000, Deduct  | -71.57                    |                         |
| 33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane ..... | 709.67                    |                         |
| For Up To 75, Add   | 146.52                    |                         |
| For >75 To 150, Add   | 70.97                     |                         |
| For >500 To 1,000, Deduct   | -16.03                    |                         |
| For >1,000 To 2,000, Deduct   | -31.59                    |                         |
| For >2,000 To 5,000, Deduct   | -48.08                    |                         |
| For >5,000, Deduct  | -75.55                    |                         |
| 33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane ..... | 747.01                    |                         |
| For Up To 75, Add   | 154.22                    |                         |
| For >75 To 150, Add   | 74.70                     |                         |
| For >500 To 1,000, Deduct   | -16.87                    |                         |
| For >1,000 To 2,000, Deduct   | -33.26                    |                         |
| For >2,000 To 5,000, Deduct   | -50.61                    |                         |
| For >5,000, Deduct  | -79.52                    |                         |
| 33 01 30 71-0141 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane .....          | 23.78                     |                         |

**33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)**

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 1,686.52                  |                         |
| 33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 2,810.86                  |                         |
| 33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 4,216.29                  |                         |
| 33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 5,621.72                  |                         |
| 33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 843.25                    |                         |
| 33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 1,405.43                  |                         |
| 33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 1,756.78                  |                         |
| 33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....   | 2,248.68                  |                         |
| 33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....<br>Note: Need to mix wet material in bag prior to installation.   | 1,405.43                  |                         |
| 33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....<br>Note: Need to mix wet material in bag prior to installation.   | 3,373.02                  |                         |
| 33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....<br>Note: Need to mix wet material in bag prior to installation.   | 5,621.72                  |                         |
| 33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP).....<br>Note: Need to mix wet material in bag prior to installation.  | 8,432.57                  |                         |
| <br><b>33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP)</b><br><small>(33 01 30 72-0001)</small><br>Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe. |                           |                         |
| <b>33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>  |                           |                         |
| 33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 23.87                     |                         |
| For Vinylster Resin, Add  | 6.38                      |                         |
| For Epoxy Resin, Add  | 0.75                      |                         |
| For Up To >10, Add  | 48.84                     |                         |
| For >10 To 25, Add  | 39.18                     |                         |
| For >25 To 50, Add  | 23.96                     |                         |
| For >50 To 100, Add   | 11.98                     |                         |
| For >500 To 1,000, Deduct   | -1.56                     |                         |
| For >1,000 To 2,000, Deduct   | -2.53                     |                         |
| For >2,000 To 5,000, Deduct   | -4.78                     |                         |
| For >5,000, Deduct  | -7.73                     |                         |
| 33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 28.86                     |                         |
| For Vinylster Resin, Add  | 9.87                      |                         |
| For Epoxy Resin, Add  | 1.16                      |                         |
| For Up To >10, Add  | 51.33                     |                         |
| For >10 To 25, Add  | 40.43                     |                         |
| For >25 To 50, Add  | 24.96                     |                         |
| For >50 To 100, Add   | 12.48                     |                         |
| For >500 To 1,000, Deduct   | -1.81                     |                         |
| For >1,000 To 2,000, Deduct   | -2.90                     |                         |
| For >2,000 To 5,000, Deduct   | -5.38                     |                         |
| For >5,000, Deduct  | -8.72                     |                         |
| 33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 33.86                     |                         |
| For Vinylster Resin, Add  | 13.37                     |                         |
| For Epoxy Resin, Add  | 1.58                      |                         |
| For Up To >10, Add  | 53.83                     |                         |
| For >10 To 25, Add  | 41.68                     |                         |
| For >25 To 50, Add  | 25.96                     |                         |
| For >50 To 100, Add   | 12.98                     |                         |
| For >500 To 1,000, Deduct   | -2.06                     |                         |
| For >1,000 To 2,000, Deduct   | -3.28                     |                         |
| For >2,000 To 5,000, Deduct   | -5.98                     |                         |
| For >5,000, Deduct  | -9.72                     |                         |
| 33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 45.25                     |                         |
| For Vinylster Resin, Add  | 20.36                     |                         |
| For Epoxy Resin, Add  | 2.40                      |                         |
| For Up To >10, Add  | 63.03                     |                         |
| For >10 To 25, Add  | 47.67                     |                         |
| For >25 To 50, Add  | 30.06                     |                         |
| For >50 To 100, Add   | 15.03                     |                         |
| For >500 To 1,000, Deduct   | -2.67                     |                         |
| For >1,000 To 2,000, Deduct   | -4.20                     |                         |
| For >2,000 To 5,000, Deduct   | -7.53                     |                         |
| For >5,000, Deduct  | -12.28                    |                         |
| 33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 56.64                     |                         |
| For Vinylster Resin, Add  | 27.36                     |                         |
| For Epoxy Resin, Add  | 3.22                      |                         |
| For Up To >10, Add  | 72.22                     |                         |
| For >10 To 25, Add  | 53.67                     |                         |
| For >25 To 50, Add  | 34.16                     |                         |
| For >50 To 100, Add   | 17.08                     |                         |
| For >500 To 1,000, Deduct   | -3.27                     |                         |
| For >1,000 To 2,000, Deduct   | -5.13                     |                         |
| For >2,000 To 5,000, Deduct   | -9.08                     |                         |
| For >5,000, Deduct  | -14.84                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>   |                           |                         |
| 33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 33.17                     |                         |
| For Vinlyester Resin, Add  | 12.89                     |                         |
| For Epoxy Resin, Add   | 1.52                      |                         |
| For Up To >10, Add   | 53.49                     |                         |
| For >10 To 25, Add   | 41.50                     |                         |
| For >25 To 50, Add   | 25.82                     |                         |
| For >50 To 100, Add  | 12.91                     |                         |
| For >500 To 1,000, Deduct  | -2.03                     |                         |
| For >1,000 To 2,000, Deduct  | -3.23                     |                         |
| For >2,000 To 5,000, Deduct  | -5.90                     |                         |
| For >5,000, Deduct   | -9.59                     |                         |
| 33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 39.83                     |                         |
| For Vinlyester Resin, Add  | 17.55                     |                         |
| For Epoxy Resin, Add   | 2.07                      |                         |
| For Up To >10, Add   | 56.82                     |                         |
| For >10 To 25, Add   | 43.17                     |                         |
| For >25 To 50, Add   | 27.15                     |                         |
| For >50 To 100, Add  | 13.58                     |                         |
| For >500 To 1,000, Deduct  | -2.36                     |                         |
| For >1,000 To 2,000, Deduct  | -3.73                     |                         |
| For >2,000 To 5,000, Deduct  | -6.70                     |                         |
| For >5,000, Deduct   | -10.92                    |                         |
| 33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 54.55                     |                         |
| For Vinlyester Resin, Add  | 26.87                     |                         |
| For Epoxy Resin, Add   | 3.17                      |                         |
| For Up To >10, Add   | 67.68                     |                         |
| For >10 To 25, Add   | 50.00                     |                         |
| For >25 To 50, Add   | 31.92                     |                         |
| For >50 To 100, Add  | 15.96                     |                         |
| For >500 To 1,000, Deduct  | -3.13                     |                         |
| For >1,000 To 2,000, Deduct  | -4.90                     |                         |
| For >2,000 To 5,000, Deduct  | -8.65                     |                         |
| For >5,000, Deduct   | -14.14                    |                         |
| 33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 69.28                     |                         |
| For Vinlyester Resin, Add  | 36.20                     |                         |
| For Epoxy Resin, Add   | 4.27                      |                         |
| For Up To >10, Add   | 78.54                     |                         |
| For >10 To 25, Add   | 56.83                     |                         |
| For >25 To 50, Add   | 36.68                     |                         |
| For >50 To 100, Add  | 18.34                     |                         |
| For >500 To 1,000, Deduct  | -3.90                     |                         |
| For >1,000 To 2,000, Deduct  | -6.07                     |                         |
| For >2,000 To 5,000, Deduct  | -10.60                    |                         |
| For >5,000, Deduct   | -17.37                    |                         |
| 33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 84.16                     |                         |
| For Vinlyester Resin, Add  | 45.53                     |                         |
| For Epoxy Resin, Add   | 5.37                      |                         |
| For Up To >10, Add   | 89.88                     |                         |
| For >10 To 25, Add   | 64.06                     |                         |
| For >25 To 50, Add   | 41.69                     |                         |
| For >50 To 100, Add  | 20.84                     |                         |
| For >500 To 1,000, Deduct  | -4.69                     |                         |
| For >1,000 To 2,000, Deduct  | -7.27                     |                         |
| For >2,000 To 5,000, Deduct  | -12.58                    |                         |
| For >5,000, Deduct   | -20.66                    |                         |
| 33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 99.45                     |                         |
| For Vinlyester Resin, Add  | 54.85                     |                         |
| For Epoxy Resin, Add   | 6.46                      |                         |
| For Up To >10, Add   | 102.45                    |                         |
| For >10 To 25, Add   | 72.32                     |                         |
| For >25 To 50, Add   | 47.31                     |                         |
| For >50 To 100, Add  | 23.65                     |                         |
| For >500 To 1,000, Deduct  | -5.50                     |                         |
| For >1,000 To 2,000, Deduct  | -8.51                     |                         |
| For >2,000 To 5,000, Deduct  | -14.68                    |                         |
| For >5,000, Deduct   | -24.11                    |                         |
| <b>33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small> |                           |                         |
| 33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 45.61                     |                         |
| For Vinlyester Resin, Add  | 21.60                     |                         |
| For Epoxy Resin, Add   | 2.55                      |                         |
| For Up To >10, Add   | 59.71                     |                         |
| For >10 To 25, Add   | 44.61                     |                         |
| For >25 To 50, Add   | 28.31                     |                         |
| For >50 To 100, Add  | 14.16                     |                         |
| For >500 To 1,000, Deduct  | -2.65                     |                         |
| For >1,000 To 2,000, Deduct  | -4.16                     |                         |
| For >2,000 To 5,000, Deduct  | -7.39                     |                         |
| For >5,000, Deduct   | -12.07                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....     | 63.66                     |                         |
| <i>For Vinylster Resin, Add</i>   | 33.25                     |                         |
| <i>For Epoxy Resin, Add</i>   | 3.92                      |                         |
| <i>For Up To &gt;10, Add</i>  | 72.23                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 52.28                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 33.74                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 16.87                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -3.59                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -5.58                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -9.74                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -15.96                    |                         |
| 33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....     | 81.71                     |                         |
| <i>For Vinylster Resin, Add</i>   | 44.91                     |                         |
| <i>For Epoxy Resin, Add</i>   | 5.29                      |                         |
| <i>For Up To &gt;10, Add</i>  | 84.76                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 59.94                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 39.17                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 19.59                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -4.52                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -7.01                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -12.09                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -19.85                    |                         |
| 33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 99.92                     |                         |
| <i>For Vinylster Resin, Add</i>   | 56.56                     |                         |
| <i>For Epoxy Resin, Add</i>   | 6.67                      |                         |
| <i>For Up To &gt;10, Add</i>  | 97.76                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 68.00                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 44.84                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 22.42                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -5.47                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -8.45                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -14.48                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -23.81                    |                         |
| 33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 118.54                    |                         |
| <i>For Vinylster Resin, Add</i>   | 68.22                     |                         |
| <i>For Epoxy Resin, Add</i>   | 8.04                      |                         |
| <i>For Up To &gt;10, Add</i>  | 112.00                    |                         |
| <i>For &gt;10 To 25, Add</i>  | 77.09                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 51.13                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 25.56                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.45                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -9.95                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -16.97                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -27.93                    |                         |
| 33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 146.33                    |                         |
| <i>For Vinylster Resin, Add</i>   | 85.71                     |                         |
| <i>For Epoxy Resin, Add</i>   | 10.10                     |                         |
| <i>For Up To &gt;10, Add</i>  | 132.89                    |                         |
| <i>For &gt;10 To 25, Add</i>  | 90.34                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 60.32                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 30.16                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -7.91                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -12.17                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -20.67                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -34.04                    |                         |
| 33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 174.40                    |                         |
| <i>For Vinylster Resin, Add</i>   | 103.19                    |                         |
| <i>For Epoxy Resin, Add</i>   | 12.16                     |                         |
| <i>For Up To &gt;10, Add</i>  | 154.68                    |                         |
| <i>For &gt;10 To 25, Add</i>  | 104.33                    |                         |
| <i>For &gt;25 To 50, Add</i>  | 69.97                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 34.98                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -9.39                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -14.43                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -24.44                    |                         |
| <i>For &gt;5,000, Deduct</i>  | -40.28                    |                         |
| <b>33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....</b> | <b>72.57</b>              |                         |
| 33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....       | 39.49                     |                         |
| <i>For Vinylster Resin, Add</i>   | 4.65                      |                         |
| <i>For Epoxy Resin, Add</i>   | 76.69                     |                         |
| <i>For Up To &gt;10, Add</i>  | 54.50                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 35.52                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 17.76                     |                         |
| <i>For &gt;50 To 100, Add</i>   | -4.03                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -6.25                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -10.81                    |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -17.75                    |                         |
| <i>For &gt;5,000, Deduct</i>  |                           |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 93.95                     |                         |
| For Vinlyester Resin, Add  | 53.47                     |                         |
| For Epoxy Resin, Add   | 6.30                      |                         |
| For Up To >10, Add   | 90.88                     |                         |
| For >10 To 25, Add   | 63.00                     |                         |
| For >25 To 50, Add   | 41.62                     |                         |
| For >50 To 100, Add  | 20.81                     |                         |
| For >500 To 1,000, Deduct  | -5.14                     |                         |
| For >1,000 To 2,000, Deduct  | -7.92                     |                         |
| For >2,000 To 5,000, Deduct  | -13.56                    |                         |
| For >5,000, Deduct   | -22.30                    |                         |
| 33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 115.50                    |                         |
| For Vinlyester Resin, Add  | 67.47                     |                         |
| For Epoxy Resin, Add   | 7.95                      |                         |
| For Up To >10, Add   | 105.55                    |                         |
| For >10 To 25, Add   | 71.90                     |                         |
| For >25 To 50, Add   | 47.96                     |                         |
| For >50 To 100, Add  | 23.98                     |                         |
| For >500 To 1,000, Deduct  | -6.25                     |                         |
| For >1,000 To 2,000, Deduct  | -9.62                     |                         |
| For >2,000 To 5,000, Deduct  | -16.35                    |                         |
| For >5,000, Deduct   | -26.92                    |                         |
| 33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 137.45                    |                         |
| For Vinlyester Resin, Add  | 81.45                     |                         |
| For Epoxy Resin, Add   | 9.60                      |                         |
| For Up To >10, Add   | 121.45                    |                         |
| For >10 To 25, Add   | 81.82                     |                         |
| For >25 To 50, Add   | 54.91                     |                         |
| For >50 To 100, Add  | 27.45                     |                         |
| For >500 To 1,000, Deduct  | -7.40                     |                         |
| For >1,000 To 2,000, Deduct  | -11.36                    |                         |
| For >2,000 To 5,000, Deduct  | -19.24                    |                         |
| For >5,000, Deduct   | -31.71                    |                         |
| 33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 170.22                    |                         |
| For Vinlyester Resin, Add  | 102.43                    |                         |
| For Epoxy Resin, Add   | 12.07                     |                         |
| For Up To >10, Add   | 144.84                    |                         |
| For >10 To 25, Add   | 96.31                     |                         |
| For >25 To 50, Add   | 65.10                     |                         |
| For >50 To 100, Add  | 32.55                     |                         |
| For >500 To 1,000, Deduct  | -9.11                     |                         |
| For >1,000 To 2,000, Deduct  | -13.96                    |                         |
| For >2,000 To 5,000, Deduct  | -23.53                    |                         |
| For >5,000, Deduct   | -38.82                    |                         |
| 33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 203.30                    |                         |
| For Vinlyester Resin, Add  | 123.42                    |                         |
| For Epoxy Resin, Add   | 14.55                     |                         |
| For Up To >10, Add   | 169.13                    |                         |
| For >10 To 25, Add   | 111.55                    |                         |
| For >25 To 50, Add   | 75.75                     |                         |
| For >50 To 100, Add  | 37.87                     |                         |
| For >500 To 1,000, Deduct  | -10.84                    |                         |
| For >1,000 To 2,000, Deduct  | -16.60                    |                         |
| For >2,000 To 5,000, Deduct  | -27.90                    |                         |
| For >5,000, Deduct   | -46.06                    |                         |
| 33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 235.51                    |                         |
| For Vinlyester Resin, Add  | 144.40                    |                         |
| For Epoxy Resin, Add   | 17.02                     |                         |
| For Up To >10, Add   | 190.83                    |                         |
| For >10 To 25, Add   | 124.65                    |                         |
| For >25 To 50, Add   | 85.10                     |                         |
| For >50 To 100, Add  | 42.55                     |                         |
| For >500 To 1,000, Deduct  | -12.51                    |                         |
| For >1,000 To 2,000, Deduct  | -19.12                    |                         |
| For >2,000 To 5,000, Deduct  | -32.06                    |                         |
| For >5,000, Deduct   | -52.95                    |                         |
| 33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 268.16                    |                         |
| For Vinlyester Resin, Add  | 165.38                    |                         |
| For Epoxy Resin, Add   | 19.49                     |                         |
| For Up To >10, Add   | 213.83                    |                         |
| For >10 To 25, Add   | 138.82                    |                         |
| For >25 To 50, Add   | 95.10                     |                         |
| For >50 To 100, Add  | 47.55                     |                         |
| For >500 To 1,000, Deduct  | -14.21                    |                         |
| For >1,000 To 2,000, Deduct  | -21.71                    |                         |
| For >2,000 To 5,000, Deduct  | -36.33                    |                         |
| For >5,000, Deduct   | -60.01                    |                         |

33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 193.92                    |                         |
| For Vinlyester Resin, Add   | 119.02                    |                         |
| For Epoxy Resin, Add  | 14.03                     |                         |
| For Up To >10, Add  | 156.69                    |                         |
| For >10 To 25, Add  | 102.23                    |                         |
| For >25 To 50, Add  | 69.84                     |                         |
| For >50 To 100, Add   | 34.92                     |                         |
| For >500 To 1,000, Deduct   | -10.29                    |                         |
| For >1,000 To 2,000, Deduct   | -15.74                    |                         |
| For >2,000 To 5,000, Deduct   | -26.38                    |                         |
| For >5,000, Deduct  | -43.56                    |                         |
| 33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 231.99                    |                         |
| For Vinlyester Resin, Add   | 143.50                    |                         |
| For Epoxy Resin, Add  | 16.91                     |                         |
| For Up To >10, Add  | 183.47                    |                         |
| For >10 To 25, Add  | 118.73                    |                         |
| For >25 To 50, Add  | 81.49                     |                         |
| For >50 To 100, Add   | 40.74                     |                         |
| For >500 To 1,000, Deduct   | -12.27                    |                         |
| For >1,000 To 2,000, Deduct   | -18.75                    |                         |
| For >2,000 To 5,000, Deduct   | -31.35                    |                         |
| For >5,000, Deduct  | -51.80                    |                         |
| 33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 269.20                    |                         |
| For Vinlyester Resin, Add   | 167.98                    |                         |
| For Epoxy Resin, Add  | 19.80                     |                         |
| For Up To >10, Add  | 207.68                    |                         |
| For >10 To 25, Add  | 133.07                    |                         |
| For >25 To 50, Add  | 91.84                     |                         |
| For >50 To 100, Add   | 45.92                     |                         |
| For >500 To 1,000, Deduct   | -14.19                    |                         |
| For >1,000 To 2,000, Deduct   | -21.65                    |                         |
| For >2,000 To 5,000, Deduct   | -36.10                    |                         |
| For >5,000, Deduct  | -59.69                    |                         |
| 33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 306.84                    |                         |
| For Vinlyester Resin, Add   | 192.46                    |                         |
| For Epoxy Resin, Add  | 22.68                     |                         |
| For Up To >10, Add  | 233.17                    |                         |
| For >10 To 25, Add  | 148.49                    |                         |
| For >25 To 50, Add  | 102.84                    |                         |
| For >50 To 100, Add   | 51.42                     |                         |
| For >500 To 1,000, Deduct   | -16.14                    |                         |
| For >1,000 To 2,000, Deduct   | -24.61                    |                         |
| For >2,000 To 5,000, Deduct   | -40.97                    |                         |
| For >5,000, Deduct  | -67.75                    |                         |
| 33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 345.05                    |                         |
| For Vinlyester Resin, Add   | 216.94                    |                         |
| For Epoxy Resin, Add  | 25.57                     |                         |
| For Up To >10, Add  | 260.38                    |                         |
| For >10 To 25, Add  | 165.33                    |                         |
| For >25 To 50, Add  | 114.69                    |                         |
| For >50 To 100, Add   | 57.35                     |                         |
| For >500 To 1,000, Deduct   | -18.13                    |                         |
| For >1,000 To 2,000, Deduct   | -27.64                    |                         |
| For >2,000 To 5,000, Deduct   | -45.97                    |                         |
| For >5,000, Deduct  | -76.04                    |                         |
| 33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 383.96                    |                         |
| For Vinlyester Resin, Add   | 241.42                    |                         |
| For Epoxy Resin, Add  | 28.45                     |                         |
| For Up To >10, Add  | 289.66                    |                         |
| For >10 To 25, Add  | 183.90                    |                         |
| For >25 To 50, Add  | 127.58                    |                         |
| For >50 To 100, Add   | 63.79                     |                         |
| For >500 To 1,000, Deduct   | -20.17                    |                         |
| For >1,000 To 2,000, Deduct   | -30.75                    |                         |
| For >2,000 To 5,000, Deduct   | -51.15                    |                         |
| For >5,000, Deduct  | -84.61                    |                         |
| 33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 458.81                    |                         |
| For Vinlyester Resin, Add   | 290.37                    |                         |
| For Epoxy Resin, Add  | 34.22                     |                         |
| For Up To >10, Add  | 339.38                    |                         |
| For >10 To 25, Add  | 213.68                    |                         |
| For >25 To 50, Add  | 148.95                    |                         |
| For >50 To 100, Add   | 74.47                     |                         |
| For >500 To 1,000, Deduct   | -24.04                    |                         |
| For >1,000 To 2,000, Deduct   | -36.61                    |                         |
| For >2,000 To 5,000, Deduct   | -60.78                    |                         |
| For >5,000, Deduct  | -100.56                   |                         |

33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 217.42                    |                         |
| For Vinlyester Resin, Add   | 135.47                    |                         |
| For Epoxy Resin, Add  | 15.97                     |                         |
| For Up To >10, Add  | 168.44                    |                         |
| For >10 To 25, Add  | 108.11                    |                         |
| For >25 To 50, Add  | 74.54                     |                         |
| For >50 To 100, Add   | 37.27                     |                         |
| For >500 To 1,000, Deduct   | -11.47                    |                         |
| For >1,000 To 2,000, Deduct   | -17.50                    |                         |
| For >2,000 To 5,000, Deduct   | -29.20                    |                         |
| For >5,000, Deduct  | -48.26                    |                         |
| 33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 260.49                    |                         |
| For Vinlyester Resin, Add   | 163.45                    |                         |
| For Epoxy Resin, Add  | 19.26                     |                         |
| For Up To >10, Add  | 197.72                    |                         |
| For >10 To 25, Add  | 125.85                    |                         |
| For >25 To 50, Add  | 87.19                     |                         |
| For >50 To 100, Add   | 43.59                     |                         |
| For >500 To 1,000, Deduct   | -13.70                    |                         |
| For >1,000 To 2,000, Deduct   | -20.89                    |                         |
| For >2,000 To 5,000, Deduct   | -34.77                    |                         |
| For >5,000, Deduct  | -57.50                    |                         |
| 33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 302.70                    |                         |
| For Vinlyester Resin, Add   | 191.43                    |                         |
| For Epoxy Resin, Add  | 22.56                     |                         |
| For Up To >10, Add  | 224.43                    |                         |
| For >10 To 25, Add  | 141.44                    |                         |
| For >25 To 50, Add  | 98.54                     |                         |
| For >50 To 100, Add   | 49.27                     |                         |
| For >500 To 1,000, Deduct   | -15.87                    |                         |
| For >1,000 To 2,000, Deduct   | -24.16                    |                         |
| For >2,000 To 5,000, Deduct   | -40.12                    |                         |
| For >5,000, Deduct  | -66.39                    |                         |
| 33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 345.33                    |                         |
| For Vinlyester Resin, Add   | 219.40                    |                         |
| For Epoxy Resin, Add  | 25.86                     |                         |
| For Up To >10, Add  | 252.42                    |                         |
| For >10 To 25, Add  | 158.11                    |                         |
| For >25 To 50, Add  | 110.54                    |                         |
| For >50 To 100, Add   | 55.27                     |                         |
| For >500 To 1,000, Deduct   | -18.06                    |                         |
| For >1,000 To 2,000, Deduct   | -27.49                    |                         |
| For >2,000 To 5,000, Deduct   | -45.59                    |                         |
| For >5,000, Deduct  | -75.45                    |                         |
| 33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 388.54                    |                         |
| For Vinlyester Resin, Add   | 247.38                    |                         |
| For Epoxy Resin, Add  | 29.16                     |                         |
| For Up To >10, Add  | 282.12                    |                         |
| For >10 To 25, Add  | 176.20                    |                         |
| For >25 To 50, Add  | 123.39                    |                         |
| For >50 To 100, Add   | 61.70                     |                         |
| For >500 To 1,000, Deduct   | -20.31                    |                         |
| For >1,000 To 2,000, Deduct   | -30.90                    |                         |
| For >2,000 To 5,000, Deduct   | -51.19                    |                         |
| For >5,000, Deduct  | -84.74                    |                         |
| 33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 432.43                    |                         |
| For Vinlyester Resin, Add   | 275.35                    |                         |
| For Epoxy Resin, Add  | 32.45                     |                         |
| For Up To >10, Add  | 313.89                    |                         |
| For >10 To 25, Add  | 196.02                    |                         |
| For >25 To 50, Add  | 137.28                    |                         |
| For >50 To 100, Add   | 68.64                     |                         |
| For >500 To 1,000, Deduct   | -22.60                    |                         |
| For >1,000 To 2,000, Deduct   | -34.39                    |                         |
| For >2,000 To 5,000, Deduct   | -56.97                    |                         |
| For >5,000, Deduct  | -94.30                    |                         |
| 33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 517.29                    |                         |
| For Vinlyester Resin, Add   | 331.31                    |                         |
| For Epoxy Resin, Add  | 39.05                     |                         |
| For Up To >10, Add  | 368.62                    |                         |
| For >10 To 25, Add  | 228.30                    |                         |
| For >25 To 50, Add  | 160.65                    |                         |
| For >50 To 100, Add   | 80.32                     |                         |
| For >500 To 1,000, Deduct   | -26.96                    |                         |
| For >1,000 To 2,000, Deduct   | -41.00                    |                         |
| For >2,000 To 5,000, Deduct   | -67.79                    |                         |
| For >5,000, Deduct  | -112.26                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 603.41                    |                         |
| For Vinylster Resin, Add  | 387.26                    |                         |
| For Epoxy Resin, Add  | 45.64                     |                         |
| For Up To >10, Add  | 427.16                    |                         |
| For >10 To 25, Add  | 263.76                    |                         |
| For >25 To 50, Add  | 185.92                    |                         |
| For >50 To 100, Add   | 92.96                     |                         |
| For >500 To 1,000, Deduct   | -31.43                    |                         |
| For >1,000 To 2,000, Deduct   | -47.76                    |                         |
| For >2,000 To 5,000, Deduct   | -78.93                    |                         |
| For >5,000, Deduct  | -130.72                   |                         |
| 33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 691.76                    |                         |
| For Vinylster Resin, Add  | 443.21                    |                         |
| For Epoxy Resin, Add  | 52.24                     |                         |
| For Up To >10, Add  | 492.38                    |                         |
| For >10 To 25, Add  | 304.79                    |                         |
| For >25 To 50, Add  | 214.53                    |                         |
| For >50 To 100, Add   | 107.27                    |                         |
| For >500 To 1,000, Deduct   | -36.05                    |                         |
| For >1,000 To 2,000, Deduct   | -54.81                    |                         |
| For >2,000 To 5,000, Deduct   | -90.63                    |                         |
| For >5,000, Deduct  | -150.07                   |                         |
| <b>33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>                |                           |                         |
| 33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 240.73                    |                         |
| For Vinylster Resin, Add  | 151.79                    |                         |
| For Epoxy Resin, Add  | 17.89                     |                         |
| For Up To >10, Add  | 180.09                    |                         |
| For >10 To 25, Add  | 113.94                    |                         |
| For >25 To 50, Add  | 79.20                     |                         |
| For >50 To 100, Add   | 39.60                     |                         |
| For >500 To 1,000, Deduct   | -12.63                    |                         |
| For >1,000 To 2,000, Deduct   | -19.25                    |                         |
| For >2,000 To 5,000, Deduct   | -31.99                    |                         |
| For >5,000, Deduct  | -52.92                    |                         |
| 33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 288.80                    |                         |
| For Vinylster Resin, Add  | 183.27                    |                         |
| For Epoxy Resin, Add  | 21.60                     |                         |
| For Up To >10, Add  | 211.88                    |                         |
| For >10 To 25, Add  | 132.93                    |                         |
| For >25 To 50, Add  | 92.85                     |                         |
| For >50 To 100, Add   | 46.42                     |                         |
| For >500 To 1,000, Deduct   | -15.11                    |                         |
| For >1,000 To 2,000, Deduct   | -23.01                    |                         |
| For >2,000 To 5,000, Deduct   | -38.16                    |                         |
| For >5,000, Deduct  | -63.16                    |                         |
| 33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 336.00                    |                         |
| For Vinylster Resin, Add  | 214.74                    |                         |
| For Epoxy Resin, Add  | 25.31                     |                         |
| For Up To >10, Add  | 241.08                    |                         |
| For >10 To 25, Add  | 149.77                    |                         |
| For >25 To 50, Add  | 105.20                    |                         |
| For >50 To 100, Add   | 52.60                     |                         |
| For >500 To 1,000, Deduct   | -17.53                    |                         |
| For >1,000 To 2,000, Deduct   | -26.66                    |                         |
| For >2,000 To 5,000, Deduct   | -44.12                    |                         |
| For >5,000, Deduct  | -73.05                    |                         |
| 33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 383.63                    |                         |
| For Vinylster Resin, Add  | 246.21                    |                         |
| For Epoxy Resin, Add  | 29.02                     |                         |
| For Up To >10, Add  | 271.57                    |                         |
| For >10 To 25, Add  | 167.68                    |                         |
| For >25 To 50, Add  | 118.20                    |                         |
| For >50 To 100, Add   | 59.10                     |                         |
| For >500 To 1,000, Deduct   | -19.98                    |                         |
| For >1,000 To 2,000, Deduct   | -30.37                    |                         |
| For >2,000 To 5,000, Deduct   | -50.18                    |                         |
| For >5,000, Deduct  | -83.11                    |                         |
| 33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 431.83                    |                         |
| For Vinylster Resin, Add  | 277.68                    |                         |
| For Epoxy Resin, Add  | 32.73                     |                         |
| For Up To >10, Add  | 303.77                    |                         |
| For >10 To 25, Add  | 187.02                    |                         |
| For >25 To 50, Add  | 132.05                    |                         |
| For >50 To 100, Add   | 66.02                     |                         |
| For >500 To 1,000, Deduct   | -22.47                    |                         |
| For >1,000 To 2,000, Deduct   | -34.14                    |                         |
| For >2,000 To 5,000, Deduct   | -56.39                    |                         |
| For >5,000, Deduct  | -93.39                    |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 480.72                    |                         |
| For Vinlyester Resin, Add   | 309.16                    |                         |
| For Epoxy Resin, Add  | 36.44                     |                         |
| For Up To >10, Add  | 338.04                    |                         |
| For >10 To 25, Add  | 208.09                    |                         |
| For >25 To 50, Add  | 146.94                    |                         |
| For >50 To 100, Add   | 73.47                     |                         |
| For >500 To 1,000, Deduct   | -25.01                    |                         |
| For >1,000 To 2,000, Deduct   | -38.01                    |                         |
| For >2,000 To 5,000, Deduct   | -62.77                    |                         |
| For >5,000, Deduct  | -103.96                   |                         |
| 33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 575.56                    |                         |
| For Vinlyester Resin, Add   | 372.10                    |                         |
| For Epoxy Resin, Add  | 43.85                     |                         |
| For Up To >10, Add  | 397.76                    |                         |
| For >10 To 25, Add  | 242.87                    |                         |
| For >25 To 50, Add  | 172.30                    |                         |
| For >50 To 100, Add   | 86.15                     |                         |
| For >500 To 1,000, Deduct   | -29.88                    |                         |
| For >1,000 To 2,000, Deduct   | -45.37                    |                         |
| For >2,000 To 5,000, Deduct   | -74.79                    |                         |
| For >5,000, Deduct  | -123.91                   |                         |
| 33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 671.68                    |                         |
| For Vinlyester Resin, Add   | 435.05                    |                         |
| For Epoxy Resin, Add  | 51.27                     |                         |
| For Up To >10, Add  | 461.29                    |                         |
| For >10 To 25, Add  | 280.83                    |                         |
| For >25 To 50, Add  | 199.57                    |                         |
| For >50 To 100, Add   | 99.79                     |                         |
| For >500 To 1,000, Deduct   | -34.84                    |                         |
| For >1,000 To 2,000, Deduct   | -52.89                    |                         |
| For >2,000 To 5,000, Deduct   | -87.13                    |                         |
| For >5,000, Deduct  | -144.37                   |                         |
| 33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 770.02                    |                         |
| For Vinlyester Resin, Add   | 497.99                    |                         |
| For Epoxy Resin, Add  | 58.69                     |                         |
| For Up To >10, Add  | 531.51                    |                         |
| For >10 To 25, Add  | 324.36                    |                         |
| For >25 To 50, Add  | 230.18                    |                         |
| For >50 To 100, Add   | 115.09                    |                         |
| For >500 To 1,000, Deduct   | -39.97                    |                         |
| For >1,000 To 2,000, Deduct   | -60.68                    |                         |
| For >2,000 To 5,000, Deduct   | -100.02                   |                         |
| For >5,000, Deduct  | -165.72                   |                         |
| <b>33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....</b>             | <b>263.84</b>             |                         |
| 33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 263.84                    |                         |
| For Vinlyester Resin, Add   | 167.97                    |                         |
| For Epoxy Resin, Add  | 19.80                     |                         |
| For Up To >10, Add  | 191.65                    |                         |
| For >10 To 25, Add  | 119.71                    |                         |
| For >25 To 50, Add  | 83.83                     |                         |
| For >50 To 100, Add   | 41.91                     |                         |
| For >500 To 1,000, Deduct   | -13.79                    |                         |
| For >1,000 To 2,000, Deduct   | -20.98                    |                         |
| For >2,000 To 5,000, Deduct   | -34.77                    |                         |
| For >5,000, Deduct  | -57.55                    |                         |
| 33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 316.90                    |                         |
| For Vinlyester Resin, Add   | 202.94                    |                         |
| For Epoxy Resin, Add  | 23.92                     |                         |
| For Up To >10, Add  | 225.93                    |                         |
| For >10 To 25, Add  | 139.95                    |                         |
| For >25 To 50, Add  | 98.47                     |                         |
| For >50 To 100, Add   | 49.23                     |                         |
| For >500 To 1,000, Deduct   | -16.52                    |                         |
| For >1,000 To 2,000, Deduct   | -25.12                    |                         |
| For >2,000 To 5,000, Deduct   | -41.54                    |                         |
| For >5,000, Deduct  | -68.78                    |                         |
| 33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 369.10                    |                         |
| For Vinlyester Resin, Add   | 237.91                    |                         |
| For Epoxy Resin, Add  | 28.04                     |                         |
| For Up To >10, Add  | 257.63                    |                         |
| For >10 To 25, Add  | 158.04                    |                         |
| For >25 To 50, Add  | 111.82                    |                         |
| For >50 To 100, Add   | 55.91                     |                         |
| For >500 To 1,000, Deduct   | -19.19                    |                         |
| For >1,000 To 2,000, Deduct   | -29.14                    |                         |
| For >2,000 To 5,000, Deduct   | -48.09                    |                         |
| For >5,000, Deduct  | -79.67                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 421.72                    |                         |
| For Vinyl Ester Resin, Add  | 272.87                    |                         |
| For Epoxy Resin, Add  | 32.16                     |                         |
| For Up To >10, Add  | 290.61                    |                         |
| For >10 To 25, Add  | 177.21                    |                         |
| For >25 To 50, Add  | 125.81                    |                         |
| For >50 To 100, Add   | 62.91                     |                         |
| For >500 To 1,000, Deduct   | -21.88                    |                         |
| For >1,000 To 2,000, Deduct   | -33.22                    |                         |
| For >2,000 To 5,000, Deduct   | -54.75                    |                         |
| For >5,000, Deduct  | -90.72                    |                         |
| 33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 474.92                    |                         |
| For Vinyl Ester Resin, Add  | 307.85                    |                         |
| For Epoxy Resin, Add  | 36.28                     |                         |
| For Up To >10, Add  | 325.31                    |                         |
| For >10 To 25, Add  | 197.80                    |                         |
| For >25 To 50, Add  | 140.67                    |                         |
| For >50 To 100, Add   | 70.33                     |                         |
| For >500 To 1,000, Deduct   | -24.62                    |                         |
| For >1,000 To 2,000, Deduct   | -37.38                    |                         |
| For >2,000 To 5,000, Deduct   | -61.56                    |                         |
| For >5,000, Deduct  | -102.01                   |                         |
| 33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 528.81                    |                         |
| For Vinyl Ester Resin, Add  | 342.82                    |                         |
| For Epoxy Resin, Add  | 40.40                     |                         |
| For Up To >10, Add  | 362.08                    |                         |
| For >10 To 25, Add  | 220.11                    |                         |
| For >25 To 50, Add  | 156.55                    |                         |
| For >50 To 100, Add   | 78.28                     |                         |
| For >500 To 1,000, Deduct   | -27.42                    |                         |
| For >1,000 To 2,000, Deduct   | -41.61                    |                         |
| For >2,000 To 5,000, Deduct   | -68.54                    |                         |
| For >5,000, Deduct  | -113.58                   |                         |
| 33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 633.64                    |                         |
| For Vinyl Ester Resin, Add  | 412.76                    |                         |
| For Epoxy Resin, Add  | 48.65                     |                         |
| For Up To >10, Add  | 426.80                    |                         |
| For >10 To 25, Add  | 257.39                    |                         |
| For >25 To 50, Add  | 183.92                    |                         |
| For >50 To 100, Add   | 91.96                     |                         |
| For >500 To 1,000, Deduct   | -32.78                    |                         |
| For >1,000 To 2,000, Deduct   | -49.72                    |                         |
| For >2,000 To 5,000, Deduct   | -81.76                    |                         |
| For >5,000, Deduct  | -135.53                   |                         |
| 33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 739.75                    |                         |
| For Vinyl Ester Resin, Add  | 482.70                    |                         |
| For Epoxy Resin, Add  | 56.89                     |                         |
| For Up To >10, Add  | 495.33                    |                         |
| For >10 To 25, Add  | 297.84                    |                         |
| For >25 To 50, Add  | 213.18                    |                         |
| For >50 To 100, Add   | 106.59                    |                         |
| For >500 To 1,000, Deduct   | -38.24                    |                         |
| For >1,000 To 2,000, Deduct   | -57.99                    |                         |
| For >2,000 To 5,000, Deduct   | -95.29                    |                         |
| For >5,000, Deduct  | -157.99                   |                         |
| 33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 848.08                    |                         |
| For Vinyl Ester Resin, Add  | 552.64                    |                         |
| For Epoxy Resin, Add  | 65.13                     |                         |
| For Up To >10, Add  | 570.54                    |                         |
| For >10 To 25, Add  | 343.87                    |                         |
| For >25 To 50, Add  | 245.80                    |                         |
| For >50 To 100, Add   | 122.90                    |                         |
| For >500 To 1,000, Deduct   | -43.87                    |                         |
| For >1,000 To 2,000, Deduct   | -66.54                    |                         |
| For >2,000 To 5,000, Deduct   | -109.39                   |                         |
| For >5,000, Deduct  | -181.34                   |                         |
| <b>33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b> .....          | <b>344.81</b>             |                         |
| 33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 222.47                    |                         |
| For Vinyl Ester Resin, Add  | 26.22                     |                         |
| For Epoxy Resin, Add  | 239.88                    |                         |
| For Up To >10, Add  | 146.93                    |                         |
| For >10 To 25, Add  | 104.05                    |                         |
| For >25 To 50, Add  | 52.02                     |                         |
| For >50 To 100, Add   | -17.92                    |                         |
| For >500 To 1,000, Deduct   | -27.21                    |                         |
| For >1,000 To 2,000, Deduct   | -44.89                    |                         |
| For >2,000 To 5,000, Deduct   | -74.36                    |                         |
| For >5,000, Deduct  |                           |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 402.00                    |                         |
| For Vinlyester Resin, Add   | 260.94                    |                         |
| For Epoxy Resin, Add  | 30.75                     |                         |
| For Up To >10, Add  | 274.08                    |                         |
| For >10 To 25, Add  | 166.27                    |                         |
| For >25 To 50, Add  | 118.40                    |                         |
| For >50 To 100, Add   | 59.20                     |                         |
| For >500 To 1,000, Deduct   | -20.83                    |                         |
| For >1,000 To 2,000, Deduct   | -31.61                    |                         |
| For >2,000 To 5,000, Deduct   | -52.04                    |                         |
| For >5,000, Deduct  | -86.25                    |                         |
| 33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 459.62                    |                         |
| For Vinlyester Resin, Add   | 299.40                    |                         |
| For Epoxy Resin, Add  | 35.29                     |                         |
| For Up To >10, Add  | 309.56                    |                         |
| For >10 To 25, Add  | 186.68                    |                         |
| For >25 To 50, Add  | 133.39                    |                         |
| For >50 To 100, Add   | 66.70                     |                         |
| For >500 To 1,000, Deduct   | -23.78                    |                         |
| For >1,000 To 2,000, Deduct   | -36.07                    |                         |
| For >2,000 To 5,000, Deduct   | -59.30                    |                         |
| For >5,000, Deduct  | -98.30                    |                         |
| 33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 517.82                    |                         |
| For Vinlyester Resin, Add   | 337.88                    |                         |
| For Epoxy Resin, Add  | 39.82                     |                         |
| For Up To >10, Add  | 346.76                    |                         |
| For >10 To 25, Add  | 208.52                    |                         |
| For >25 To 50, Add  | 149.25                    |                         |
| For >50 To 100, Add   | 74.62                     |                         |
| For >500 To 1,000, Deduct   | -26.77                    |                         |
| For >1,000 To 2,000, Deduct   | -40.59                    |                         |
| For >2,000 To 5,000, Deduct   | -66.71                    |                         |
| For >5,000, Deduct  | -110.59                   |                         |
| 33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 576.70                    |                         |
| For Vinlyester Resin, Add   | 376.34                    |                         |
| For Epoxy Resin, Add  | 44.35                     |                         |
| For Up To >10, Add  | 386.03                    |                         |
| For >10 To 25, Add  | 232.08                    |                         |
| For >25 To 50, Add  | 166.13                    |                         |
| For >50 To 100, Add   | 83.07                     |                         |
| For >500 To 1,000, Deduct   | -29.81                    |                         |
| For >1,000 To 2,000, Deduct   | -45.21                    |                         |
| For >2,000 To 5,000, Deduct   | -74.28                    |                         |
| For >5,000, Deduct  | -123.15                   |                         |
| 33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 691.53                    |                         |
| For Vinlyester Resin, Add   | 453.28                    |                         |
| For Epoxy Resin, Add  | 53.42                     |                         |
| For Up To >10, Add  | 455.74                    |                         |
| For >10 To 25, Add  | 271.86                    |                         |
| For >25 To 50, Add  | 195.49                    |                         |
| For >50 To 100, Add   | 97.75                     |                         |
| For >500 To 1,000, Deduct   | -35.68                    |                         |
| For >1,000 To 2,000, Deduct   | -54.06                    |                         |
| For >2,000 To 5,000, Deduct   | -88.70                    |                         |
| For >5,000, Deduct  | -147.10                   |                         |
| 33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 807.62                    |                         |
| For Vinlyester Resin, Add   | 530.21                    |                         |
| For Epoxy Resin, Add  | 62.49                     |                         |
| For Up To >10, Add  | 529.26                    |                         |
| For >10 To 25, Add  | 314.81                    |                         |
| For >25 To 50, Add  | 226.76                    |                         |
| For >50 To 100, Add   | 113.38                    |                         |
| For >500 To 1,000, Deduct   | -41.64                    |                         |
| For >1,000 To 2,000, Deduct   | -63.08                    |                         |
| For >2,000 To 5,000, Deduct   | -103.44                   |                         |
| For >5,000, Deduct  | -171.56                   |                         |
| 33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 925.95                    |                         |
| For Vinlyester Resin, Add   | 607.15                    |                         |
| For Epoxy Resin, Add  | 71.56                     |                         |
| For Up To >10, Add  | 609.48                    |                         |
| For >10 To 25, Add  | 363.34                    |                         |
| For >25 To 50, Add  | 261.37                    |                         |
| For >50 To 100, Add   | 130.69                    |                         |
| For >500 To 1,000, Deduct   | -47.76                    |                         |
| For >1,000 To 2,000, Deduct   | -72.38                    |                         |
| For >2,000 To 5,000, Deduct   | -118.73                   |                         |
| For >5,000, Deduct  | -196.91                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,043.31                  |                         |
| For Vinlyester Resin, Add   | 684.08                    |                         |
| For Epoxy Resin, Add  | 80.62                     |                         |
| For Up To >10, Add  | 686.78                    |                         |
| For >10 To 25, Add  | 409.44                    |                         |
| For >25 To 50, Add  | 294.53                    |                         |
| For >50 To 100, Add   | 147.26                    |                         |
| For >500 To 1,000, Deduct   | -53.82                    |                         |
| For >1,000 To 2,000, Deduct   | -81.55                    |                         |
| For >2,000 To 5,000, Deduct   | -133.78                   |                         |
| For >5,000, Deduct  | -221.87                   |                         |
| <br>  |                           |                         |
| <b>33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>                  |                           |                         |
| 33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 373.22                    |                         |
| For Vinlyester Resin, Add   | 241.87                    |                         |
| For Epoxy Resin, Add  | 28.51                     |                         |
| For Up To >10, Add  | 255.84                    |                         |
| For >10 To 25, Add  | 155.61                    |                         |
| For >25 To 50, Add  | 110.64                    |                         |
| For >50 To 100, Add   | 55.32                     |                         |
| For >500 To 1,000, Deduct   | -19.35                    |                         |
| For >1,000 To 2,000, Deduct   | -29.38                    |                         |
| For >2,000 To 5,000, Deduct   | -48.39                    |                         |
| For >5,000, Deduct  | -80.18                    |                         |
| 33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 435.56                    |                         |
| For Vinlyester Resin, Add   | 283.84                    |                         |
| For Epoxy Resin, Add  | 33.45                     |                         |
| For Up To >10, Add  | 292.98                    |                         |
| For >10 To 25, Add  | 176.57                    |                         |
| For >25 To 50, Add  | 126.22                    |                         |
| For >50 To 100, Add   | 63.11                     |                         |
| For >500 To 1,000, Deduct   | -22.53                    |                         |
| For >1,000 To 2,000, Deduct   | -34.17                    |                         |
| For >2,000 To 5,000, Deduct   | -56.18                    |                         |
| For >5,000, Deduct  | -93.13                    |                         |
| 33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 498.18                    |                         |
| For Vinlyester Resin, Add   | 325.80                    |                         |
| For Epoxy Resin, Add  | 38.40                     |                         |
| For Up To >10, Add  | 330.97                    |                         |
| For >10 To 25, Add  | 198.23                    |                         |
| For >25 To 50, Add  | 142.21                    |                         |
| For >50 To 100, Add   | 71.11                     |                         |
| For >500 To 1,000, Deduct   | -25.73                    |                         |
| For >1,000 To 2,000, Deduct   | -39.00                    |                         |
| For >2,000 To 5,000, Deduct   | -64.04                    |                         |
| For >5,000, Deduct  | -106.19                   |                         |
| 33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 561.50                    |                         |
| For Vinlyester Resin, Add   | 367.77                    |                         |
| For Epoxy Resin, Add  | 43.34                     |                         |
| For Up To >10, Add  | 371.05                    |                         |
| For >10 To 25, Add  | 221.65                    |                         |
| For >25 To 50, Add  | 159.26                    |                         |
| For >50 To 100, Add   | 79.63                     |                         |
| For >500 To 1,000, Deduct   | -28.98                    |                         |
| For >1,000 To 2,000, Deduct   | -43.92                    |                         |
| For >2,000 To 5,000, Deduct   | -72.08                    |                         |
| For >5,000, Deduct  | -119.52                   |                         |
| 33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 625.37                    |                         |
| For Vinlyester Resin, Add   | 409.72                    |                         |
| For Epoxy Resin, Add  | 48.29                     |                         |
| For Up To >10, Add  | 412.81                    |                         |
| For >10 To 25, Add  | 246.46                    |                         |
| For >25 To 50, Add  | 177.14                    |                         |
| For >50 To 100, Add   | 88.57                     |                         |
| For >500 To 1,000, Deduct   | -32.27                    |                         |
| For >1,000 To 2,000, Deduct   | -48.91                    |                         |
| For >2,000 To 5,000, Deduct   | -80.25                    |                         |
| For >5,000, Deduct  | -133.08                   |                         |
| 33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 751.32                    |                         |
| For Vinlyester Resin, Add   | 493.65                    |                         |
| For Epoxy Resin, Add  | 58.18                     |                         |
| For Up To >10, Add  | 490.91                    |                         |
| For >10 To 25, Add  | 291.56                    |                         |
| For >25 To 50, Add  | 210.19                    |                         |
| For >50 To 100, Add   | 105.10                    |                         |
| For >500 To 1,000, Deduct   | -38.72                    |                         |
| For >1,000 To 2,000, Deduct   | -58.65                    |                         |
| For >2,000 To 5,000, Deduct   | -96.15                    |                         |
| For >5,000, Deduct  | -159.48                   |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 877.83                    |                         |
| For Vinlyester Resin, Add   | 577.59                    |                         |
| For Epoxy Resin, Add  | 68.07                     |                         |
| For Up To >10, Add  | 570.67                    |                         |
| For >10 To 25, Add  | 338.03                    |                         |
| For >25 To 50, Add  | 244.08                    |                         |
| For >50 To 100, Add   | 122.04                    |                         |
| For >500 To 1,000, Deduct   | -45.21                    |                         |
| For >1,000 To 2,000, Deduct   | -68.47                    |                         |
| For >2,000 To 5,000, Deduct   | -112.19                   |                         |
| For >5,000, Deduct  | -186.11                   |                         |
| 33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,006.58                  |                         |
| For Vinlyester Resin, Add   | 661.51                    |                         |
| For Epoxy Resin, Add  | 77.96                     |                         |
| For Up To >10, Add  | 657.19                    |                         |
| For >10 To 25, Add  | 390.16                    |                         |
| For >25 To 50, Add  | 281.34                    |                         |
| For >50 To 100, Add   | 140.67                    |                         |
| For >500 To 1,000, Deduct   | -51.87                    |                         |
| For >1,000 To 2,000, Deduct   | -78.57                    |                         |
| For >2,000 To 5,000, Deduct   | -128.79                   |                         |
| For >5,000, Deduct  | -213.63                   |                         |
| 33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,134.35                  |                         |
| For Vinlyester Resin, Add   | 745.44                    |                         |
| For Epoxy Resin, Add  | 87.86                     |                         |
| For Up To >10, Add  | 740.75                    |                         |
| For >10 To 25, Add  | 439.81                    |                         |
| For >25 To 50, Add  | 317.13                    |                         |
| For >50 To 100, Add   | 158.56                    |                         |
| For >500 To 1,000, Deduct   | -58.45                    |                         |
| For >1,000 To 2,000, Deduct   | -88.55                    |                         |
| For >2,000 To 5,000, Deduct   | -145.15                   |                         |
| For >5,000, Deduct  | -240.76                   |                         |
| 33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,261.97                  |                         |
| For Vinlyester Resin, Add   | 829.37                    |                         |
| For Epoxy Resin, Add  | 97.75                     |                         |
| For Up To >10, Add  | 823.89                    |                         |
| For >10 To 25, Add  | 489.10                    |                         |
| For >25 To 50, Add  | 352.70                    |                         |
| For >50 To 100, Add   | 176.35                    |                         |
| For >500 To 1,000, Deduct   | -65.03                    |                         |
| For >1,000 To 2,000, Deduct   | -98.51                    |                         |
| For >2,000 To 5,000, Deduct   | -161.47                   |                         |
| For >5,000, Deduct  | -267.83                   |                         |
| 33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,390.16                  |                         |
| For Vinlyester Resin, Add   | 913.30                    |                         |
| For Epoxy Resin, Add  | 107.64                    |                         |
| For Up To >10, Add  | 908.71                    |                         |
| For >10 To 25, Add  | 539.80                    |                         |
| For >25 To 50, Add  | 389.12                    |                         |
| For >50 To 100, Add   | 194.56                    |                         |
| For >500 To 1,000, Deduct   | -71.64                    |                         |
| For >1,000 To 2,000, Deduct   | -108.53                   |                         |
| For >2,000 To 5,000, Deduct   | -177.93                   |                         |
| For >5,000, Deduct  | -295.12                   |                         |
| 33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,517.93                  |                         |
| For Vinlyester Resin, Add   | 997.23                    |                         |
| For Epoxy Resin, Add  | 117.53                    |                         |
| For Up To >10, Add  | 992.27                    |                         |
| For >10 To 25, Add  | 589.45                    |                         |
| For >25 To 50, Add  | 424.90                    |                         |
| For >50 To 100, Add   | 212.45                    |                         |
| For >500 To 1,000, Deduct   | -78.23                    |                         |
| For >1,000 To 2,000, Deduct   | -118.51                   |                         |
| For >2,000 To 5,000, Deduct   | -194.28                   |                         |
| For >5,000, Deduct  | -322.25                   |                         |
| 33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....                  | 401.86                    |                         |
| 33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 401.86                    |                         |
| For Vinlyester Resin, Add   | 261.14                    |                         |
| For Epoxy Resin, Add  | 30.78                     |                         |
| For Up To >10, Add  | 272.96                    |                         |
| For >10 To 25, Add  | 165.29                    |                         |
| For >25 To 50, Add  | 117.83                    |                         |
| For >50 To 100, Add   | 58.91                     |                         |
| For >500 To 1,000, Deduct   | -20.81                    |                         |
| For >1,000 To 2,000, Deduct   | -31.58                    |                         |
| For >2,000 To 5,000, Deduct   | -51.97                    |                         |
| For >5,000, Deduct  | -86.13                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 469.19                    |                         |
| For Vinyl Ester Resin, Add  | 306.59                    |                         |
| For Epoxy Resin, Add  | 36.13                     |                         |
| For Up To >10, Add  | 312.60                    |                         |
| For >10 To 25, Add  | 187.50                    |                         |
| For >25 To 50, Add  | 134.40                    |                         |
| For >50 To 100, Add   | 67.20                     |                         |
| For >500 To 1,000, Deduct   | -24.24                    |                         |
| For >1,000 To 2,000, Deduct   | -36.75                    |                         |
| For >2,000 To 5,000, Deduct   | -60.36                    |                         |
| For >5,000, Deduct  | -100.08                   |                         |
| 33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 536.94                    |                         |
| For Vinyl Ester Resin, Add  | 352.05                    |                         |
| For Epoxy Resin, Add  | 41.49                     |                         |
| For Up To >10, Add  | 353.50                    |                         |
| For >10 To 25, Add  | 210.76                    |                         |
| For >25 To 50, Add  | 151.60                    |                         |
| For >50 To 100, Add   | 75.80                     |                         |
| For >500 To 1,000, Deduct   | -27.70                    |                         |
| For >1,000 To 2,000, Deduct   | -41.97                    |                         |
| For >2,000 To 5,000, Deduct   | -68.85                    |                         |
| For >5,000, Deduct  | -114.19                   |                         |
| 33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 604.98                    |                         |
| For Vinyl Ester Resin, Add  | 397.52                    |                         |
| For Epoxy Resin, Add  | 46.85                     |                         |
| For Up To >10, Add  | 395.24                    |                         |
| For >10 To 25, Add  | 234.72                    |                         |
| For >25 To 50, Add  | 169.23                    |                         |
| For >50 To 100, Add   | 84.61                     |                         |
| For >500 To 1,000, Deduct   | -31.18                    |                         |
| For >1,000 To 2,000, Deduct   | -47.23                    |                         |
| For >2,000 To 5,000, Deduct   | -77.42                    |                         |
| For >5,000, Deduct  | -128.42                   |                         |
| 33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 674.15                    |                         |
| For Vinyl Ester Resin, Add  | 442.98                    |                         |
| For Epoxy Resin, Add  | 52.21                     |                         |
| For Up To >10, Add  | 440.38                    |                         |
| For >10 To 25, Add  | 261.51                    |                         |
| For >25 To 50, Add  | 188.55                    |                         |
| For >50 To 100, Add   | 94.27                     |                         |
| For >500 To 1,000, Deduct   | -34.74                    |                         |
| For >1,000 To 2,000, Deduct   | -52.63                    |                         |
| For >2,000 To 5,000, Deduct   | -86.27                    |                         |
| For >5,000, Deduct  | -143.09                   |                         |
| 33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 811.34                    |                         |
| For Vinyl Ester Resin, Add  | 533.90                    |                         |
| For Epoxy Resin, Add  | 62.92                     |                         |
| For Up To >10, Add  | 527.25                    |                         |
| For >10 To 25, Add  | 312.25                    |                         |
| For >25 To 50, Add  | 225.49                    |                         |
| For >50 To 100, Add   | 112.74                    |                         |
| For >500 To 1,000, Deduct   | -41.78                    |                         |
| For >1,000 To 2,000, Deduct   | -63.28                    |                         |
| For >2,000 To 5,000, Deduct   | -103.68                   |                         |
| For >5,000, Deduct  | -171.99                   |                         |
| 33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 948.96                    |                         |
| For Vinyl Ester Resin, Add  | 624.82                    |                         |
| For Epoxy Resin, Add  | 73.64                     |                         |
| For Up To >10, Add  | 615.38                    |                         |
| For >10 To 25, Add  | 364.05                    |                         |
| For >25 To 50, Add  | 263.06                    |                         |
| For >50 To 100, Add   | 131.53                    |                         |
| For >500 To 1,000, Deduct   | -48.86                    |                         |
| For >1,000 To 2,000, Deduct   | -73.99                    |                         |
| For >2,000 To 5,000, Deduct   | -121.20                   |                         |
| For >5,000, Deduct  | -201.06                   |                         |
| 33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,087.56                  |                         |
| For Vinyl Ester Resin, Add  | 715.74                    |                         |
| For Epoxy Resin, Add  | 84.36                     |                         |
| For Up To >10, Add  | 706.46                    |                         |
| For >10 To 25, Add  | 418.30                    |                         |
| For >25 To 50, Add  | 302.10                    |                         |
| For >50 To 100, Add   | 151.05                    |                         |
| For >500 To 1,000, Deduct   | -56.00                    |                         |
| For >1,000 To 2,000, Deduct   | -84.82                    |                         |
| For >2,000 To 5,000, Deduct   | -138.97                   |                         |
| For >5,000, Deduct  | -230.53                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |   |          |  |
|------------------|---|----------|--|
| 33 01 30 72-0116 | LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 1,225.74 |  |
|                  | For Vinlyester Resin, Add   | 806.67   |  |
|                  | For Epoxy Resin, Add  | 95.07    |  |
|                  | For Up To >10, Add  | 796.27   |  |
|                  | For >10 To 25, Add  | 471.50   |  |
|                  | For >25 To 50, Add  | 340.52   |  |
|                  | For >50 To 100, Add   | 170.26   |  |
|                  | For >500 To 1,000, Deduct   | -63.12   |  |
|                  | For >1,000 To 2,000, Deduct   | -95.60   |  |
|                  | For >2,000 To 5,000, Deduct   | -156.63  |  |
|                  | For >5,000, Deduct  | -259.82  |  |
| 33 01 30 72-0117 | LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 1,363.93 |  |
|                  | For Vinlyester Resin, Add   | 897.59   |  |
|                  | For Epoxy Resin, Add  | 105.79   |  |
|                  | For Up To >10, Add  | 886.12   |  |
|                  | For >10 To 25, Add  | 524.72   |  |
|                  | For >25 To 50, Add  | 378.94   |  |
|                  | For >50 To 100, Add   | 189.47   |  |
|                  | For >500 To 1,000, Deduct   | -70.24   |  |
|                  | For >1,000 To 2,000, Deduct   | -106.38  |  |
|                  | For >2,000 To 5,000, Deduct   | -174.29  |  |
|                  | For >5,000, Deduct  | -289.12  |  |
| 33 01 30 72-0118 | LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 1,503.79 |  |
|                  | For Vinlyester Resin, Add   | 988.51   |  |
|                  | For Epoxy Resin, Add  | 116.50   |  |
|                  | For Up To >10, Add  | 980.97   |  |
|                  | For >10 To 25, Add  | 582.12   |  |
|                  | For >25 To 50, Add  | 419.88   |  |
|                  | For >50 To 100, Add   | 209.94   |  |
|                  | For >500 To 1,000, Deduct   | -77.48   |  |
|                  | For >1,000 To 2,000, Deduct   | -117.37  |  |
|                  | For >2,000 To 5,000, Deduct   | -192.37  |  |
|                  | For >5,000, Deduct  | -319.08  |  |
| 33 01 30 72-0119 | LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 1,642.11 |  |
|                  | For Vinlyester Resin, Add   | 1,079.43 |  |
|                  | For Epoxy Resin, Add  | 127.22   |  |
|                  | For Up To >10, Add  | 1,071.23 |  |
|                  | For >10 To 25, Add  | 635.69   |  |
|                  | For >25 To 50, Add  | 458.51   |  |
|                  | For >50 To 100, Add   | 229.26   |  |
|                  | For >500 To 1,000, Deduct   | -84.61   |  |
|                  | For >1,000 To 2,000, Deduct   | -128.16  |  |
|                  | For >2,000 To 5,000, Deduct   | -210.06  |  |
|                  | For >5,000, Deduct  | -348.44  |  |

**33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)**

|                  |   |         |  |
|------------------|---|---------|--|
| 33 01 30 72-0121 | LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 430.15  |  |
|                  | For Vinlyester Resin, Add   | 280.25  |  |
|                  | For Epoxy Resin, Add  | 33.03   |  |
|                  | For Up To >10, Add  | 289.55  |  |
|                  | For >10 To 25, Add  | 174.57  |  |
|                  | For >25 To 50, Add  | 124.76  |  |
|                  | For >50 To 100, Add   | 62.38   |  |
|                  | For >500 To 1,000, Deduct   | -22.25  |  |
|                  | For >1,000 To 2,000, Deduct   | -33.75  |  |
|                  | For >2,000 To 5,000, Deduct   | -55.49  |  |
|                  | For >5,000, Deduct  | -91.99  |  |
| 33 01 30 72-0122 | LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 502.63  |  |
|                  | For Vinlyester Resin, Add   | 329.22  |  |
|                  | For Epoxy Resin, Add  | 38.80   |  |
|                  | For Up To >10, Add  | 332.12  |  |
|                  | For >10 To 25, Add  | 198.38  |  |
|                  | For >25 To 50, Add  | 142.54  |  |
|                  | For >50 To 100, Add   | 71.27   |  |
|                  | For >500 To 1,000, Deduct   | -25.94  |  |
|                  | For >1,000 To 2,000, Deduct   | -39.31  |  |
|                  | For >2,000 To 5,000, Deduct   | -64.52  |  |
|                  | For >5,000, Deduct  | -106.99 |  |
| 33 01 30 72-0123 | LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) | 575.52  |  |
|                  | For Vinlyester Resin, Add   | 378.18  |  |
|                  | For Epoxy Resin, Add  | 44.57   |  |
|                  | For Up To >10, Add  | 375.94  |  |
|                  | For >10 To 25, Add  | 223.24  |  |
|                  | For >25 To 50, Add  | 160.96  |  |
|                  | For >50 To 100, Add   | 80.48   |  |
|                  | For >500 To 1,000, Deduct   | -29.66  |  |
|                  | For >1,000 To 2,000, Deduct   | -44.93  |  |
|                  | For >2,000 To 5,000, Deduct   | -73.65  |  |
|                  | For >5,000, Deduct  | -122.16 |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 648.27                    |                         |
| For Vinlyester Resin, Add   | 427.13                    |                         |
| For Epoxy Resin, Add  | 50.34                     |                         |
| For Up To >10, Add  | 419.34                    |                         |
| For >10 To 25, Add  | 247.75                    |                         |
| For >25 To 50, Add  | 179.16                    |                         |
| For >50 To 100, Add   | 89.58                     |                         |
| For >500 To 1,000, Deduct   | -33.37                    |                         |
| For >1,000 To 2,000, Deduct   | -50.52                    |                         |
| For >2,000 To 5,000, Deduct   | -82.74                    |                         |
| For >5,000, Deduct  | -137.27                   |                         |
| 33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 722.57                    |                         |
| For Vinlyester Resin, Add   | 476.09                    |                         |
| For Epoxy Resin, Add  | 56.11                     |                         |
| For Up To >10, Add  | 467.39                    |                         |
| For >10 To 25, Add  | 276.13                    |                         |
| For >25 To 50, Add  | 199.69                    |                         |
| For >50 To 100, Add   | 99.84                     |                         |
| For >500 To 1,000, Deduct   | -37.19                    |                         |
| For >1,000 To 2,000, Deduct   | -56.31                    |                         |
| For >2,000 To 5,000, Deduct   | -92.23                    |                         |
| For >5,000, Deduct  | -153.00                   |                         |
| 33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 871.17                    |                         |
| For Vinlyester Resin, Add   | 574.01                    |                         |
| For Epoxy Resin, Add  | 67.65                     |                         |
| For Up To >10, Add  | 563.49                    |                         |
| For >10 To 25, Add  | 332.90                    |                         |
| For >25 To 50, Add  | 240.74                    |                         |
| For >50 To 100, Add   | 120.37                    |                         |
| For >500 To 1,000, Deduct   | -44.84                    |                         |
| For >1,000 To 2,000, Deduct   | -67.90                    |                         |
| For >2,000 To 5,000, Deduct   | -111.19                   |                         |
| For >5,000, Deduct  | -184.47                   |                         |
| 33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,019.76                  |                         |
| For Vinlyester Resin, Add   | 671.92                    |                         |
| For Epoxy Resin, Add  | 79.19                     |                         |
| For Up To >10, Add  | 659.56                    |                         |
| For >10 To 25, Add  | 389.65                    |                         |
| For >25 To 50, Add  | 281.78                    |                         |
| For >50 To 100, Add   | 140.89                    |                         |
| For >500 To 1,000, Deduct   | -52.48                    |                         |
| For >1,000 To 2,000, Deduct   | -79.48                    |                         |
| For >2,000 To 5,000, Deduct   | -130.15                   |                         |
| For >5,000, Deduct  | -215.93                   |                         |
| 33 01 30 72-0128 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,168.36                  |                         |
| For Vinlyester Resin, Add   | 769.84                    |                         |
| For Epoxy Resin, Add  | 90.73                     |                         |
| For Up To >10, Add  | 755.66                    |                         |
| For >10 To 25, Add  | 446.42                    |                         |
| For >25 To 50, Add  | 322.84                    |                         |
| For >50 To 100, Add   | 161.42                    |                         |
| For >500 To 1,000, Deduct   | -60.13                    |                         |
| For >1,000 To 2,000, Deduct   | -91.06                    |                         |
| For >2,000 To 5,000, Deduct   | -149.12                   |                         |
| For >5,000, Deduct  | -247.39                   |                         |
| 33 01 30 72-0129 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,316.95                  |                         |
| For Vinlyester Resin, Add   | 867.76                    |                         |
| For Epoxy Resin, Add  | 102.27                    |                         |
| For Up To >10, Add  | 851.73                    |                         |
| For >10 To 25, Add  | 503.16                    |                         |
| For >25 To 50, Add  | 363.88                    |                         |
| For >50 To 100, Add   | 181.94                    |                         |
| For >500 To 1,000, Deduct   | -67.78                    |                         |
| For >1,000 To 2,000, Deduct   | -102.64                   |                         |
| For >2,000 To 5,000, Deduct   | -168.08                   |                         |
| For >5,000, Deduct  | -278.85                   |                         |
| 33 01 30 72-0130 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,465.54                  |                         |
| For Vinlyester Resin, Add   | 965.67                    |                         |
| For Epoxy Resin, Add  | 113.81                    |                         |
| For Up To >10, Add  | 947.80                    |                         |
| For >10 To 25, Add  | 559.91                    |                         |
| For >25 To 50, Add  | 404.92                    |                         |
| For >50 To 100, Add   | 202.46                    |                         |
| For >500 To 1,000, Deduct   | -75.43                    |                         |
| For >1,000 To 2,000, Deduct   | -114.22                   |                         |
| For >2,000 To 5,000, Deduct   | -187.05                   |                         |
| For >5,000, Deduct  | -310.31                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                  |  |          |  |
|------------------|--|----------|--|
| 33 01 30 72-0131 | LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,617.23 |  |
|                  | For Vinlyester Resin, Add  | 1,063.59 |  |
|                  | For Epoxy Resin, Add   | 125.35   |  |
|                  | For Up To >10, Add   | 1,053.17 |  |
|                  | For >10 To 25, Add   | 624.40   |  |
|                  | For >25 To 50, Add   | 450.61   |  |
|                  | For >50 To 100, Add  | 225.31   |  |
|                  | For >500 To 1,000, Deduct  | -83.31   |  |
|                  | For >1,000 To 2,000, Deduct  | -126.18  |  |
|                  | For >2,000 To 5,000, Deduct  | -206.78  |  |
|                  | For >5,000, Deduct   | -343.01  |  |
| 33 01 30 72-0132 | LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,766.10 |  |
|                  | For Vinlyester Resin, Add  | 1,161.50 |  |
|                  | For Epoxy Resin, Add   | 136.89   |  |
|                  | For Up To >10, Add   | 1,150.08 |  |
|                  | For >10 To 25, Add   | 681.85   |  |
|                  | For >25 To 50, Add   | 492.07   |  |
|                  | For >50 To 100, Add  | 246.04   |  |
|                  | For >500 To 1,000, Deduct  | -90.98   |  |
|                  | For >1,000 To 2,000, Deduct  | -137.80  |  |
|                  | For >2,000 To 5,000, Deduct  | -225.82  |  |
|                  | For >5,000, Deduct   | -374.58  |  |

**33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)**

|                  |  |         |  |
|------------------|--|---------|--|
| 33 01 30 72-0134 | LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 458.13  |  |
|                  | For Vinlyester Resin, Add  | 299.24  |  |
|                  | For Epoxy Resin, Add   | 35.27   |  |
|                  | For Up To >10, Add   | 305.67  |  |
|                  | For >10 To 25, Add   | 183.47  |  |
|                  | For >25 To 50, Add   | 131.46  |  |
|                  | For >50 To 100, Add  | 65.73   |  |
|                  | For >500 To 1,000, Deduct  | -23.67  |  |
|                  | For >1,000 To 2,000, Deduct  | -35.89  |  |
|                  | For >2,000 To 5,000, Deduct  | -58.96  |  |
|                  | For >5,000, Deduct   | -97.75  |  |
| 33 01 30 72-0135 | LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 535.59  |  |
|                  | For Vinlyester Resin, Add  | 351.69  |  |
|                  | For Epoxy Resin, Add   | 41.45   |  |
|                  | For Up To >10, Add   | 350.72  |  |
|                  | For >10 To 25, Add   | 208.53  |  |
|                  | For >25 To 50, Add   | 150.24  |  |
|                  | For >50 To 100, Add  | 75.12   |  |
|                  | For >500 To 1,000, Deduct  | -27.61  |  |
|                  | For >1,000 To 2,000, Deduct  | -41.83  |  |
|                  | For >2,000 To 5,000, Deduct  | -68.58  |  |
|                  | For >5,000, Deduct   | -113.75 |  |
| 33 01 30 72-0136 | LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 613.90  |  |
|                  | For Vinlyester Resin, Add  | 404.15  |  |
|                  | For Epoxy Resin, Add   | 47.63   |  |
|                  | For Up To >10, Add   | 398.30  |  |
|                  | For >10 To 25, Add   | 235.69  |  |
|                  | For >25 To 50, Add   | 170.28  |  |
|                  | For >50 To 100, Add  | 85.14   |  |
|                  | For >500 To 1,000, Deduct  | -31.61  |  |
|                  | For >1,000 To 2,000, Deduct  | -47.87  |  |
|                  | For >2,000 To 5,000, Deduct  | -78.42  |  |
|                  | For >5,000, Deduct   | -130.09 |  |
| 33 01 30 72-0137 | LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 692.64  |  |
|                  | For Vinlyester Resin, Add  | 456.61  |  |
|                  | For Epoxy Resin, Add   | 53.81   |  |
|                  | For Up To >10, Add   | 447.17  |  |
|                  | For >10 To 25, Add   | 263.93  |  |
|                  | For >25 To 50, Add   | 190.97  |  |
|                  | For >50 To 100, Add  | 95.49   |  |
|                  | For >500 To 1,000, Deduct  | -35.64  |  |
|                  | For >1,000 To 2,000, Deduct  | -53.97  |  |
|                  | For >2,000 To 5,000, Deduct  | -88.36  |  |
|                  | For >5,000, Deduct   | -146.60 |  |
| 33 01 30 72-0138 | LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 772.20  |  |
|                  | For Vinlyester Resin, Add  | 509.06  |  |
|                  | For Epoxy Resin, Add   | 60.00   |  |
|                  | For Up To >10, Add   | 498.53  |  |
|                  | For >10 To 25, Add   | 294.23  |  |
|                  | For >25 To 50, Add   | 212.90  |  |
|                  | For >50 To 100, Add  | 106.45  |  |
|                  | For >500 To 1,000, Deduct  | -39.73  |  |
|                  | For >1,000 To 2,000, Deduct  | -60.16  |  |
|                  | For >2,000 To 5,000, Deduct  | -98.51  |  |
|                  | For >5,000, Deduct   | -163.43 |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 931.35                    |                         |
| For Vinlyester Resin, Add   | 613.97                    |                         |
| For Epoxy Resin, Add  | 72.36                     |                         |
| For Up To >10, Add  | 601.30                    |                         |
| For >10 To 25, Add  | 354.90                    |                         |
| For >25 To 50, Add  | 256.80                    |                         |
| For >50 To 100, Add   | 128.40                    |                         |
| For >500 To 1,000, Deduct   | -47.92                    |                         |
| For >1,000 To 2,000, Deduct   | -72.56                    |                         |
| For >2,000 To 5,000, Deduct   | -118.81                   |                         |
| For >5,000, Deduct  | -197.12                   |                         |
| 33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,090.50                  |                         |
| For Vinlyester Resin, Add   | 718.88                    |                         |
| For Epoxy Resin, Add  | 84.73                     |                         |
| For Up To >10, Add  | 704.08                    |                         |
| For >10 To 25, Add  | 415.57                    |                         |
| For >25 To 50, Add  | 300.69                    |                         |
| For >50 To 100, Add   | 150.34                    |                         |
| For >500 To 1,000, Deduct   | -56.11                    |                         |
| For >1,000 To 2,000, Deduct   | -84.96                    |                         |
| For >2,000 To 5,000, Deduct   | -139.12                   |                         |
| For >5,000, Deduct  | -230.81                   |                         |
| 33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,249.65                  |                         |
| For Vinlyester Resin, Add   | 823.80                    |                         |
| For Epoxy Resin, Add  | 97.09                     |                         |
| For Up To >10, Add  | 806.83                    |                         |
| For >10 To 25, Add  | 476.21                    |                         |
| For >25 To 50, Add  | 344.57                    |                         |
| For >50 To 100, Add   | 172.29                    |                         |
| For >500 To 1,000, Deduct   | -64.30                    |                         |
| For >1,000 To 2,000, Deduct   | -97.36                    |                         |
| For >2,000 To 5,000, Deduct   | -159.42                   |                         |
| For >5,000, Deduct  | -264.49                   |                         |
| 33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,408.80                  |                         |
| For Vinlyester Resin, Add   | 928.70                    |                         |
| For Epoxy Resin, Add  | 109.45                    |                         |
| For Up To >10, Add  | 909.60                    |                         |
| For >10 To 25, Add  | 536.88                    |                         |
| For >25 To 50, Add  | 388.46                    |                         |
| For >50 To 100, Add   | 194.23                    |                         |
| For >500 To 1,000, Deduct   | -72.49                    |                         |
| For >1,000 To 2,000, Deduct   | -109.76                   |                         |
| For >2,000 To 5,000, Deduct   | -179.73                   |                         |
| For >5,000, Deduct  | -298.18                   |                         |
| 33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,567.94                  |                         |
| For Vinlyester Resin, Add   | 1,033.61                  |                         |
| For Epoxy Resin, Add  | 121.62                    |                         |
| For Up To >10, Add  | 1,012.35                  |                         |
| For >10 To 25, Add  | 597.52                    |                         |
| For >25 To 50, Add  | 432.34                    |                         |
| For >50 To 100, Add   | 216.17                    |                         |
| For >500 To 1,000, Deduct   | -80.68                    |                         |
| For >1,000 To 2,000, Deduct   | -122.16                   |                         |
| For >2,000 To 5,000, Deduct   | -200.03                   |                         |
| For >5,000, Deduct  | -331.86                   |                         |
| 33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,730.32                  |                         |
| For Vinlyester Resin, Add   | 1,138.52                  |                         |
| For Epoxy Resin, Add  | 134.18                    |                         |
| For Up To >10, Add  | 1,124.81                  |                         |
| For >10 To 25, Add  | 666.27                    |                         |
| For >25 To 50, Add  | 481.08                    |                         |
| For >50 To 100, Add   | 240.54                    |                         |
| For >500 To 1,000, Deduct   | -89.11                    |                         |
| For >1,000 To 2,000, Deduct   | -134.97                   |                         |
| For >2,000 To 5,000, Deduct   | -221.14                   |                         |
| For >5,000, Deduct  | -366.84                   |                         |
| 33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,889.76                  |                         |
| For Vinlyester Resin, Add   | 1,243.44                  |                         |
| For Epoxy Resin, Add  | 146.55                    |                         |
| For Up To >10, Add  | 1,228.43                  |                         |
| For >10 To 25, Add  | 727.64                    |                         |
| For >25 To 50, Add  | 525.40                    |                         |
| For >50 To 100, Add   | 262.70                    |                         |
| For >500 To 1,000, Deduct   | -97.32                    |                         |
| For >1,000 To 2,000, Deduct   | -147.40                   |                         |
| For >2,000 To 5,000, Deduct   | -241.52                   |                         |
| For >5,000, Deduct  | -400.64                   |                         |

33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 485.75                    |                         |
| For Vinlyester Resin, Add   | 318.09                    |                         |
| For Epoxy Resin, Add  | 37.49                     |                         |
| For Up To >10, Add  | 321.23                    |                         |
| For >10 To 25, Add  | 191.95                    |                         |
| For >25 To 50, Add  | 137.89                    |                         |
| For >50 To 100, Add   | 68.95                     |                         |
| For >500 To 1,000, Deduct   | -25.07                    |                         |
| For >1,000 To 2,000, Deduct   | -38.00                    |                         |
| For >2,000 To 5,000, Deduct   | -62.36                    |                         |
| For >5,000, Deduct  | -103.42                   |                         |
| 33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 688.22                    |                         |
| For Vinlyester Resin, Add   | 374.05                    |                         |
| For Epoxy Resin, Add  | 44.08                     |                         |
| For Up To >10, Add  | 368.79                    |                         |
| For >10 To 25, Add  | 218.26                    |                         |
| For >25 To 50, Add  | 157.68                    |                         |
| For >50 To 100, Add   | 78.84                     |                         |
| For >500 To 1,000, Deduct   | -29.26                    |                         |
| For >1,000 To 2,000, Deduct   | -44.31                    |                         |
| For >2,000 To 5,000, Deduct   | -72.59                    |                         |
| For >5,000, Deduct  | -120.42                   |                         |
| 33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 651.94                    |                         |
| For Vinlyester Resin, Add   | 430.00                    |                         |
| For Epoxy Resin, Add  | 50.68                     |                         |
| For Up To >10, Add  | 420.12                    |                         |
| For >10 To 25, Add  | 247.72                    |                         |
| For >25 To 50, Add  | 179.35                    |                         |
| For >50 To 100, Add   | 89.67                     |                         |
| For >500 To 1,000, Deduct   | -33.54                    |                         |
| For >1,000 To 2,000, Deduct   | -50.78                    |                         |
| For >2,000 To 5,000, Deduct   | -83.13                    |                         |
| For >5,000, Deduct  | -137.92                   |                         |
| 33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 736.80                    |                         |
| For Vinlyester Resin, Add   | 485.95                    |                         |
| For Epoxy Resin, Add  | 57.27                     |                         |
| For Up To >10, Add  | 474.88                    |                         |
| For >10 To 25, Add  | 280.03                    |                         |
| For >25 To 50, Add  | 202.73                    |                         |
| For >50 To 100, Add   | 101.36                    |                         |
| For >500 To 1,000, Deduct   | -37.90                    |                         |
| For >1,000 To 2,000, Deduct   | -57.39                    |                         |
| For >2,000 To 5,000, Deduct   | -93.95                    |                         |
| For >5,000, Deduct  | -155.88                   |                         |
| 33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 821.64                    |                         |
| For Vinlyester Resin, Add   | 541.90                    |                         |
| For Epoxy Resin, Add  | 63.87                     |                         |
| For Up To >10, Add  | 529.57                    |                         |
| For >10 To 25, Add  | 312.29                    |                         |
| For >25 To 50, Add  | 226.08                    |                         |
| For >50 To 100, Add   | 113.04                    |                         |
| For >500 To 1,000, Deduct   | -42.27                    |                         |
| For >1,000 To 2,000, Deduct   | -64.00                    |                         |
| For >2,000 To 5,000, Deduct   | -104.77                   |                         |
| For >5,000, Deduct  | -173.83                   |                         |
| 33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 991.36                    |                         |
| For Vinlyester Resin, Add   | 653.81                    |                         |
| For Epoxy Resin, Add  | 77.06                     |                         |
| For Up To >10, Add  | 639.06                    |                         |
| For >10 To 25, Add  | 376.88                    |                         |
| For >25 To 50, Add  | 272.83                    |                         |
| For >50 To 100, Add   | 136.41                    |                         |
| For >500 To 1,000, Deduct   | -51.00                    |                         |
| For >1,000 To 2,000, Deduct   | -77.22                    |                         |
| For >2,000 To 5,000, Deduct   | -126.42                   |                         |
| For >5,000, Deduct  | -209.74                   |                         |
| 33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,205.96                  |                         |
| For Vinlyester Resin, Add   | 797.24                    |                         |
| For Epoxy Resin, Add  | 93.96                     |                         |
| For Up To >10, Add  | 770.58                    |                         |
| For >10 To 25, Add  | 452.33                    |                         |
| For >25 To 50, Add  | 328.34                    |                         |
| For >50 To 100, Add   | 164.17                    |                         |
| For >500 To 1,000, Deduct   | -61.97                    |                         |
| For >1,000 To 2,000, Deduct   | -93.80                    |                         |
| For >2,000 To 5,000, Deduct   | -153.43                   |                         |
| For >5,000, Deduct  | -254.60                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,330.61                  |                         |
| For Vinlyester Resin, Add   | 877.61                    |                         |
| For Epoxy Resin, Add  | 103.43                    |                         |
| For Up To >10, Add  | 857.51                    |                         |
| For >10 To 25, Add  | 505.63                    |                         |
| For >25 To 50, Add  | 366.07                    |                         |
| For >50 To 100, Add   | 183.03                    |                         |
| For >500 To 1,000, Deduct   | -68.45                    |                         |
| For >1,000 To 2,000, Deduct   | -103.64                   |                         |
| For >2,000 To 5,000, Deduct   | -169.67                   |                         |
| For >5,000, Deduct  | -281.50                   |                         |
| 33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,500.32                  |                         |
| For Vinlyester Resin, Add   | 989.52                    |                         |
| For Epoxy Resin, Add  | 116.62                    |                         |
| For Up To >10, Add  | 966.96                    |                         |
| For >10 To 25, Add  | 570.20                    |                         |
| For >25 To 50, Add  | 412.80                    |                         |
| For >50 To 100, Add   | 206.40                    |                         |
| For >500 To 1,000, Deduct   | -77.18                    |                         |
| For >1,000 To 2,000, Deduct   | -116.86                   |                         |
| For >2,000 To 5,000, Deduct   | -191.31                   |                         |
| For >5,000, Deduct  | -317.41                   |                         |
| 33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,670.01                  |                         |
| For Vinlyester Resin, Add   | 1,101.42                  |                         |
| For Epoxy Resin, Add  | 129.81                    |                         |
| For Up To >10, Add  | 1,076.38                  |                         |
| For >10 To 25, Add  | 634.74                    |                         |
| For >25 To 50, Add  | 459.52                    |                         |
| For >50 To 100, Add   | 229.76                    |                         |
| For >500 To 1,000, Deduct   | -85.91                    |                         |
| For >1,000 To 2,000, Deduct   | -130.08                   |                         |
| For >2,000 To 5,000, Deduct   | -212.95                   |                         |
| For >5,000, Deduct  | -353.31                   |                         |
| 33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,843.08                  |                         |
| For Vinlyester Resin, Add   | 1,213.32                  |                         |
| For Epoxy Resin, Add  | 143.00                    |                         |
| For Up To >10, Add  | 1,195.94                  |                         |
| For >10 To 25, Add  | 707.73                    |                         |
| For >25 To 50, Add  | 511.30                    |                         |
| For >50 To 100, Add   | 255.65                    |                         |
| For >500 To 1,000, Deduct   | -94.90                    |                         |
| For >1,000 To 2,000, Deduct   | -143.72                   |                         |
| For >2,000 To 5,000, Deduct   | -235.44                   |                         |
| For >5,000, Deduct  | -390.57                   |                         |
| 33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,013.07                  |                         |
| For Vinlyester Resin, Add   | 1,325.23                  |                         |
| For Epoxy Resin, Add  | 156.19                    |                         |
| For Up To >10, Add  | 1,306.24                  |                         |
| For >10 To 25, Add  | 773.00                    |                         |
| For >25 To 50, Add  | 558.46                    |                         |
| For >50 To 100, Add   | 279.23                    |                         |
| For >500 To 1,000, Deduct   | -103.65                   |                         |
| For >1,000 To 2,000, Deduct   | -156.97                   |                         |
| For >2,000 To 5,000, Deduct   | -257.15                   |                         |
| For >5,000, Deduct  | -426.59                   |                         |
| 33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,183.05                  |                         |
| For Vinlyester Resin, Add   | 1,437.14                  |                         |
| For Epoxy Resin, Add  | 169.38                    |                         |
| For Up To >10, Add  | 1,416.53                  |                         |
| For >10 To 25, Add  | 838.26                    |                         |
| For >25 To 50, Add  | 605.61                    |                         |
| For >50 To 100, Add   | 302.81                    |                         |
| For >500 To 1,000, Deduct   | -112.40                   |                         |
| For >1,000 To 2,000, Deduct   | -170.23                   |                         |
| For >2,000 To 5,000, Deduct   | -278.87                   |                         |
| For >5,000, Deduct  | -462.61                   |                         |
| 33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,353.03                  |                         |
| For Vinlyester Resin, Add   | 1,549.04                  |                         |
| For Epoxy Resin, Add  | 182.57                    |                         |
| For Up To >10, Add  | 1,526.82                  |                         |
| For >10 To 25, Add  | 903.53                    |                         |
| For >25 To 50, Add  | 652.76                    |                         |
| For >50 To 100, Add   | 326.38                    |                         |
| For >500 To 1,000, Deduct   | -121.15                   |                         |
| For >1,000 To 2,000, Deduct   | -183.48                   |                         |
| For >2,000 To 5,000, Deduct   | -300.58                   |                         |
| For >5,000, Deduct  | -498.63                   |                         |

33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 601.06                    |                         |
| For Vinlyester Resin, Add   | 396.25                    |                         |
| For Epoxy Resin, Add  | 46.70                     |                         |
| For Up To >10, Add  | 388.01                    |                         |
| For >10 To 25, Add  | 228.99                    |                         |
| For >25 To 50, Add  | 165.70                    |                         |
| For >50 To 100, Add   | 82.85                     |                         |
| For >500 To 1,000, Deduct   | -30.93                    |                         |
| For >1,000 To 2,000, Deduct   | -46.83                    |                         |
| For >2,000 To 5,000, Deduct   | -76.68                    |                         |
| For >5,000, Deduct  | -127.21                   |                         |
| 33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 690.63                    |                         |
| For Vinlyester Resin, Add   | 455.70                    |                         |
| For Epoxy Resin, Add  | 53.71                     |                         |
| For Up To >10, Add  | 444.39                    |                         |
| For >10 To 25, Add  | 261.83                    |                         |
| For >25 To 50, Add  | 189.65                    |                         |
| For >50 To 100, Add   | 94.82                     |                         |
| For >500 To 1,000, Deduct   | -35.52                    |                         |
| For >1,000 To 2,000, Deduct   | -53.78                    |                         |
| For >2,000 To 5,000, Deduct   | -88.03                    |                         |
| For >5,000, Deduct  | -146.05                   |                         |
| 33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 780.76                    |                         |
| For Vinlyester Resin, Add   | 515.15                    |                         |
| For Epoxy Resin, Add  | 60.71                     |                         |
| For Up To >10, Add  | 502.46                    |                         |
| For >10 To 25, Add  | 296.06                    |                         |
| For >25 To 50, Add  | 214.43                    |                         |
| For >50 To 100, Add   | 107.22                    |                         |
| For >500 To 1,000, Deduct   | -40.16                    |                         |
| For >1,000 To 2,000, Deduct   | -60.80                    |                         |
| For >2,000 To 5,000, Deduct   | -99.52                    |                         |
| For >5,000, Deduct  | -165.12                   |                         |
| 33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 870.74                    |                         |
| For Vinlyester Resin, Add   | 574.60                    |                         |
| For Epoxy Resin, Add  | 67.72                     |                         |
| For Up To >10, Add  | 560.10                    |                         |
| For >10 To 25, Add  | 329.94                    |                         |
| For >25 To 50, Add  | 239.01                    |                         |
| For >50 To 100, Add   | 119.50                    |                         |
| For >500 To 1,000, Deduct   | -44.78                    |                         |
| For >1,000 To 2,000, Deduct   | -67.80                    |                         |
| For >2,000 To 5,000, Deduct   | -110.97                   |                         |
| For >5,000, Deduct  | -184.13                   |                         |
| 33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,051.00                  |                         |
| For Vinlyester Resin, Add   | 693.50                    |                         |
| For Epoxy Resin, Add  | 81.73                     |                         |
| For Up To >10, Add  | 676.23                    |                         |
| For >10 To 25, Add  | 398.40                    |                         |
| For >25 To 50, Add  | 288.58                    |                         |
| For >50 To 100, Add   | 144.29                    |                         |
| For >500 To 1,000, Deduct   | -54.06                    |                         |
| For >1,000 To 2,000, Deduct   | -81.84                    |                         |
| For >2,000 To 5,000, Deduct   | -133.96                   |                         |
| For >5,000, Deduct  | -222.26                   |                         |
| 33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,231.11                  |                         |
| For Vinlyester Resin, Add   | 812.39                    |                         |
| For Epoxy Resin, Add  | 95.75                     |                         |
| For Up To >10, Add  | 791.93                    |                         |
| For >10 To 25, Add  | 466.52                    |                         |
| For >25 To 50, Add  | 337.94                    |                         |
| For >50 To 100, Add   | 168.97                    |                         |
| For >500 To 1,000, Deduct   | -63.32                    |                         |
| For >1,000 To 2,000, Deduct   | -95.86                    |                         |
| For >2,000 To 5,000, Deduct   | -156.90                   |                         |
| For >5,000, Deduct  | -260.33                   |                         |
| 33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,411.38                  |                         |
| For Vinlyester Resin, Add   | 931.29                    |                         |
| For Epoxy Resin, Add  | 109.76                    |                         |
| For Up To >10, Add  | 908.09                    |                         |
| For >10 To 25, Add  | 535.01                    |                         |
| For >25 To 50, Add  | 387.52                    |                         |
| For >50 To 100, Add   | 193.76                    |                         |
| For >500 To 1,000, Deduct   | -72.59                    |                         |
| For >1,000 To 2,000, Deduct   | -109.90                   |                         |
| For >2,000 To 5,000, Deduct   | -179.89                   |                         |
| For >5,000, Deduct  | -298.47                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,591.49                  |                         |
| For Vinylster Resin, Add  | 1,050.19                  |                         |
| For Epoxy Resin, Add  | 123.77                    |                         |
| For Up To >10, Add  | 1,023.80                  |                         |
| For >10 To 25, Add  | 603.12                    |                         |
| For >25 To 50, Add  | 436.88                    |                         |
| For >50 To 100, Add   | 218.44                    |                         |
| For >500 To 1,000, Deduct   | -81.86                    |                         |
| For >1,000 To 2,000, Deduct   | -123.92                   |                         |
| For >2,000 To 5,000, Deduct   | -202.84                   |                         |
| For >5,000, Deduct  | -336.54                   |                         |
| 33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,771.74                  |                         |
| For Vinylster Resin, Add  | 1,169.09                  |                         |
| For Epoxy Resin, Add  | 137.79                    |                         |
| For Up To >10, Add  | 1,139.90                  |                         |
| For >10 To 25, Add  | 671.56                    |                         |
| For >25 To 50, Add  | 486.44                    |                         |
| For >50 To 100, Add   | 243.22                    |                         |
| For >500 To 1,000, Deduct   | -91.13                    |                         |
| For >1,000 To 2,000, Deduct   | -137.96                   |                         |
| For >2,000 To 5,000, Deduct   | -225.82                   |                         |
| For >5,000, Deduct  | -374.67                   |                         |
| 33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,956.49                  |                         |
| For Vinylster Resin, Add  | 1,287.99                  |                         |
| For Epoxy Resin, Add  | 151.80                    |                         |
| For Up To >10, Add  | 1,269.52                  |                         |
| For >10 To 25, Add  | 751.27                    |                         |
| For >25 To 50, Add  | 542.76                    |                         |
| For >50 To 100, Add   | 271.38                    |                         |
| For >500 To 1,000, Deduct   | -100.74                   |                         |
| For >1,000 To 2,000, Deduct   | -152.56                   |                         |
| For >2,000 To 5,000, Deduct   | -249.93                   |                         |
| For >5,000, Deduct  | -414.60                   |                         |
| 33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,137.17                  |                         |
| For Vinylster Resin, Add  | 1,406.89                  |                         |
| For Epoxy Resin, Add  | 165.81                    |                         |
| For Up To >10, Add  | 1,386.91                  |                         |
| For >10 To 25, Add  | 820.79                    |                         |
| For >25 To 50, Add  | 592.96                    |                         |
| For >50 To 100, Add   | 296.48                    |                         |
| For >500 To 1,000, Deduct   | -110.04                   |                         |
| For >1,000 To 2,000, Deduct   | -166.65                   |                         |
| For >2,000 To 5,000, Deduct   | -273.01                   |                         |
| For >5,000, Deduct  | -452.90                   |                         |
| 33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,317.70                  |                         |
| For Vinylster Resin, Add  | 1,525.78                  |                         |
| For Epoxy Resin, Add  | 179.82                    |                         |
| For Up To >10, Add  | 1,503.88                  |                         |
| For >10 To 25, Add  | 889.95                    |                         |
| For >25 To 50, Add  | 642.95                    |                         |
| For >50 To 100, Add   | 321.48                    |                         |
| For >500 To 1,000, Deduct   | -119.34                   |                         |
| For >1,000 To 2,000, Deduct   | -180.73                   |                         |
| For >2,000 To 5,000, Deduct   | -296.07                   |                         |
| For >5,000, Deduct  | -491.14                   |                         |
| 33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,498.38                  |                         |
| For Vinylster Resin, Add  | 1,644.69                  |                         |
| For Epoxy Resin, Add  | 193.84                    |                         |
| For Up To >10, Add  | 1,621.27                  |                         |
| For >10 To 25, Add  | 959.46                    |                         |
| For >25 To 50, Add  | 693.16                    |                         |
| For >50 To 100, Add   | 346.58                    |                         |
| For >500 To 1,000, Deduct   | -128.64                   |                         |
| For >1,000 To 2,000, Deduct   | -194.82                   |                         |
| For >2,000 To 5,000, Deduct   | -319.15                   |                         |
| For >5,000, Deduct  | -529.44                   |                         |
| <b>33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>                  |                           |                         |
| 33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 633.58                    |                         |
| For Vinylster Resin, Add  | 418.32                    |                         |
| For Epoxy Resin, Add  | 49.30                     |                         |
| For Up To >10, Add  | 406.74                    |                         |
| For >10 To 25, Add  | 239.35                    |                         |
| For >25 To 50, Add  | 173.49                    |                         |
| For >50 To 100, Add   | 86.75                     |                         |
| For >500 To 1,000, Deduct   | -32.58                    |                         |
| For >1,000 To 2,000, Deduct   | -49.32                    |                         |
| For >2,000 To 5,000, Deduct   | -80.71                    |                         |
| For >5,000, Deduct  | -133.91                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 728.98                    |                         |
| For Vinlyester Resin, Add   | 481.26                    |                         |
| For Epoxy Resin, Add  | 56.72                     |                         |
| For Up To >10, Add  | 468.14                    |                         |
| For >10 To 25, Add  | 275.53                    |                         |
| For >25 To 50, Add  | 199.69                    |                         |
| For >50 To 100, Add   | 99.85                     |                         |
| For >500 To 1,000, Deduct   | -37.49                    |                         |
| For >1,000 To 2,000, Deduct   | -56.75                    |                         |
| For >2,000 To 5,000, Deduct   | -92.87                    |                         |
| For >5,000, Deduct  | -154.09                   |                         |
| 33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 824.39                    |                         |
| For Vinlyester Resin, Add   | 544.22                    |                         |
| For Epoxy Resin, Add  | 64.14                     |                         |
| For Up To >10, Add  | 529.55                    |                         |
| For >10 To 25, Add  | 311.71                    |                         |
| For >25 To 50, Add  | 225.90                    |                         |
| For >50 To 100, Add   | 112.95                    |                         |
| For >500 To 1,000, Deduct   | -42.39                    |                         |
| For >1,000 To 2,000, Deduct   | -64.18                    |                         |
| For >2,000 To 5,000, Deduct   | -105.03                   |                         |
| For >5,000, Deduct  | -174.27                   |                         |
| 33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 919.65                    |                         |
| For Vinlyester Resin, Add   | 607.16                    |                         |
| For Epoxy Resin, Add  | 71.56                     |                         |
| For Up To >10, Add  | 590.53                    |                         |
| For >10 To 25, Add  | 347.54                    |                         |
| For >25 To 50, Add  | 251.89                    |                         |
| For >50 To 100, Add   | 125.95                    |                         |
| For >500 To 1,000, Deduct   | -47.29                    |                         |
| For >1,000 To 2,000, Deduct   | -71.59                    |                         |
| For >2,000 To 5,000, Deduct   | -117.15                   |                         |
| For >5,000, Deduct  | -194.39                   |                         |
| 33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,110.32                  |                         |
| For Vinlyester Resin, Add   | 733.05                    |                         |
| For Epoxy Resin, Add  | 86.40                     |                         |
| For Up To >10, Add  | 712.91                    |                         |
| For >10 To 25, Add  | 419.56                    |                         |
| For >25 To 50, Add  | 304.09                    |                         |
| For >50 To 100, Add   | 152.05                    |                         |
| For >500 To 1,000, Deduct   | -57.09                    |                         |
| For >1,000 To 2,000, Deduct   | -86.43                    |                         |
| For >2,000 To 5,000, Deduct   | -141.44                   |                         |
| For >5,000, Deduct  | -234.68                   |                         |
| 33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,301.13                  |                         |
| For Vinlyester Resin, Add   | 858.94                    |                         |
| For Epoxy Resin, Add  | 101.23                    |                         |
| For Up To >10, Add  | 835.74                    |                         |
| For >10 To 25, Add  | 491.94                    |                         |
| For >25 To 50, Add  | 356.52                    |                         |
| For >50 To 100, Add   | 178.26                    |                         |
| For >500 To 1,000, Deduct   | -66.91                    |                         |
| For >1,000 To 2,000, Deduct   | -101.29                   |                         |
| For >2,000 To 5,000, Deduct   | -165.76                   |                         |
| For >5,000, Deduct  | -275.04                   |                         |
| 33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,491.80                  |                         |
| For Vinlyester Resin, Add   | 984.84                    |                         |
| For Epoxy Resin, Add  | 116.07                    |                         |
| For Up To >10, Add  | 958.13                    |                         |
| For >10 To 25, Add  | 563.95                    |                         |
| For >25 To 50, Add  | 408.72                    |                         |
| For >50 To 100, Add   | 204.36                    |                         |
| For >500 To 1,000, Deduct   | -76.71                    |                         |
| For >1,000 To 2,000, Deduct   | -116.13                   |                         |
| For >2,000 To 5,000, Deduct   | -190.05                   |                         |
| For >5,000, Deduct  | -315.34                   |                         |
| 33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,682.46                  |                         |
| For Vinlyester Resin, Add   | 1,110.73                  |                         |
| For Epoxy Resin, Add  | 130.91                    |                         |
| For Up To >10, Add  | 1,080.51                  |                         |
| For >10 To 25, Add  | 635.96                    |                         |
| For >25 To 50, Add  | 460.92                    |                         |
| For >50 To 100, Add   | 230.46                    |                         |
| For >500 To 1,000, Deduct   | -86.52                    |                         |
| For >1,000 To 2,000, Deduct   | -130.97                   |                         |
| For >2,000 To 5,000, Deduct   | -214.34                   |                         |
| For >5,000, Deduct  | -355.63                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,873.13                  |                         |
| For Vinlyester Resin, Add   | 1,236.62                  |                         |
| For Epoxy Resin, Add  | 145.74                    |                         |
| For Up To >10, Add  | 1,202.89                  |                         |
| For >10 To 25, Add  | 707.98                    |                         |
| For >25 To 50, Add  | 513.12                    |                         |
| For >50 To 100, Add   | 256.56                    |                         |
| For >500 To 1,000, Deduct   | -96.32                    |                         |
| For >1,000 To 2,000, Deduct   | -145.81                   |                         |
| For >2,000 To 5,000, Deduct   | -238.62                   |                         |
| For >5,000, Deduct  | -395.93                   |                         |
| 33 01 30 72-0185 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 2,069.70                  |                         |
| For Vinlyester Resin, Add   | 1,362.52                  |                         |
| For Epoxy Resin, Add  | 160.58                    |                         |
| For Up To >10, Add  | 1,342.98                  |                         |
| For >10 To 25, Add  | 794.74                    |                         |
| For >25 To 50, Add  | 574.17                    |                         |
| For >50 To 100, Add   | 287.08                    |                         |
| For >500 To 1,000, Deduct   | -106.57                   |                         |
| For >1,000 To 2,000, Deduct   | -161.39                   |                         |
| For >2,000 To 5,000, Deduct   | -264.39                   |                         |
| For >5,000, Deduct  | -438.59                   |                         |
| 33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 2,260.93                  |                         |
| For Vinlyester Resin, Add   | 1,488.40                  |                         |
| For Epoxy Resin, Add  | 175.42                    |                         |
| For Up To >10, Add  | 1,467.07                  |                         |
| For >10 To 25, Add  | 868.17                    |                         |
| For >25 To 50, Add  | 627.22                    |                         |
| For >50 To 100, Add   | 313.61                    |                         |
| For >500 To 1,000, Deduct   | -116.41                   |                         |
| For >1,000 To 2,000, Deduct   | -176.30                   |                         |
| For >2,000 To 5,000, Deduct   | -288.81                   |                         |
| For >5,000, Deduct  | -479.11                   |                         |
| 33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 2,452.16                  |                         |
| For Vinlyester Resin, Add   | 1,614.30                  |                         |
| For Epoxy Resin, Add  | 190.26                    |                         |
| For Up To >10, Add  | 1,591.13                  |                         |
| For >10 To 25, Add  | 941.59                    |                         |
| For >25 To 50, Add  | 680.26                    |                         |
| For >50 To 100, Add   | 340.13                    |                         |
| For >500 To 1,000, Deduct   | -126.26                   |                         |
| For >1,000 To 2,000, Deduct   | -191.21                   |                         |
| For >2,000 To 5,000, Deduct   | -313.24                   |                         |
| For >5,000, Deduct  | -519.64                   |                         |
| 33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 2,643.40                  |                         |
| For Vinlyester Resin, Add   | 1,740.19                  |                         |
| For Epoxy Resin, Add  | 205.09                    |                         |
| For Up To >10, Add  | 1,715.23                  |                         |
| For >10 To 25, Add  | 1,015.02                  |                         |
| For >25 To 50, Add  | 733.31                    |                         |
| For >50 To 100, Add   | 366.66                    |                         |
| For >500 To 1,000, Deduct   | -136.11                   |                         |
| For >1,000 To 2,000, Deduct   | -206.13                   |                         |
| For >2,000 To 5,000, Deduct   | -337.67                   |                         |
| For >5,000, Deduct  | -560.16                   |                         |
| <b>33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b> |                           |                         |
| 33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 766.86                    |                         |
| For Vinlyester Resin, Add   | 506.70                    |                         |
| For Epoxy Resin, Add  | 59.72                     |                         |
| For Up To >10, Add  | 490.96                    |                         |
| For >10 To 25, Add  | 288.49                    |                         |
| For >25 To 50, Add  | 209.29                    |                         |
| For >50 To 100, Add   | 104.64                    |                         |
| For >500 To 1,000, Deduct   | -39.42                    |                         |
| For >1,000 To 2,000, Deduct   | -59.67                    |                         |
| For >2,000 To 5,000, Deduct   | -97.61                    |                         |
| For >5,000, Deduct  | -161.97                   |                         |
| 33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 867.54                    |                         |
| For Vinlyester Resin, Add   | 573.14                    |                         |
| For Epoxy Resin, Add  | 67.55                     |                         |
| For Up To >10, Add  | 555.70                    |                         |
| For >10 To 25, Add  | 326.62                    |                         |
| For >25 To 50, Add  | 236.91                    |                         |
| For >50 To 100, Add   | 118.45                    |                         |
| For >500 To 1,000, Deduct   | -44.60                    |                         |
| For >1,000 To 2,000, Deduct   | -67.50                    |                         |
| For >2,000 To 5,000, Deduct   | -110.44                   |                         |
| For >5,000, Deduct  | -183.26                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 968.08                    |                         |
| For Vinlyester Resin, Add   | 639.58                    |                         |
| For Epoxy Resin, Add  | 75.38                     |                         |
| For Up To >10, Add  | 620.02                    |                         |
| For >10 To 25, Add  | 364.40                    |                         |
| For >25 To 50, Add  | 264.32                    |                         |
| For >50 To 100, Add   | 132.16                    |                         |
| For >500 To 1,000, Deduct   | -49.76                    |                         |
| For >1,000 To 2,000, Deduct   | -75.33                    |                         |
| For >2,000 To 5,000, Deduct   | -123.24                   |                         |
| For >5,000, Deduct  | -204.49                   |                         |
| 33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,225.27                  |                         |
| For Vinlyester Resin, Add   | 811.75                    |                         |
| For Epoxy Resin, Add  | 95.67                     |                         |
| For Up To >10, Add  | 776.71                    |                         |
| For >10 To 25, Add  | 453.99                    |                         |
| For >25 To 50, Add  | 330.37                    |                         |
| For >50 To 100, Add   | 165.19                    |                         |
| For >500 To 1,000, Deduct   | -62.90                    |                         |
| For >1,000 To 2,000, Deduct   | -95.18                    |                         |
| For >2,000 To 5,000, Deduct   | -155.56                   |                         |
| For >5,000, Deduct  | -258.18                   |                         |
| 33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,370.38                  |                         |
| For Vinlyester Resin, Add   | 905.35                    |                         |
| For Epoxy Resin, Add  | 106.70                    |                         |
| For Up To >10, Add  | 877.74                    |                         |
| For >10 To 25, Add  | 515.89                    |                         |
| For >25 To 50, Add  | 374.20                    |                         |
| For >50 To 100, Add   | 187.10                    |                         |
| For >500 To 1,000, Deduct   | -70.44                    |                         |
| For >1,000 To 2,000, Deduct   | -106.63                   |                         |
| For >2,000 To 5,000, Deduct   | -174.46                   |                         |
| For >5,000, Deduct  | -289.48                   |                         |
| 33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,571.46                  |                         |
| For Vinlyester Resin, Add   | 1,038.24                  |                         |
| For Epoxy Resin, Add  | 122.36                    |                         |
| For Up To >10, Add  | 1,006.38                  |                         |
| For >10 To 25, Add  | 591.45                    |                         |
| For >25 To 50, Add  | 429.03                    |                         |
| For >50 To 100, Add   | 214.52                    |                         |
| For >500 To 1,000, Deduct   | -80.78                    |                         |
| For >1,000 To 2,000, Deduct   | -122.27                   |                         |
| For >2,000 To 5,000, Deduct   | -200.05                   |                         |
| For >5,000, Deduct  | -331.94                   |                         |
| 33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,772.55                  |                         |
| For Vinlyester Resin, Add   | 1,171.13                  |                         |
| For Epoxy Resin, Add  | 138.03                    |                         |
| For Up To >10, Add  | 1,135.05                  |                         |
| For >10 To 25, Add  | 667.04                    |                         |
| For >25 To 50, Add  | 483.87                    |                         |
| For >50 To 100, Add   | 241.94                    |                         |
| For >500 To 1,000, Deduct   | -91.12                    |                         |
| For >1,000 To 2,000, Deduct   | -137.92                   |                         |
| For >2,000 To 5,000, Deduct   | -225.64                   |                         |
| For >5,000, Deduct  | -374.41                   |                         |
| 33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,973.63                  |                         |
| For Vinlyester Resin, Add   | 1,304.02                  |                         |
| For Epoxy Resin, Add  | 153.69                    |                         |
| For Up To >10, Add  | 1,263.69                  |                         |
| For >10 To 25, Add  | 742.60                    |                         |
| For >25 To 50, Add  | 538.70                    |                         |
| For >50 To 100, Add   | 269.35                    |                         |
| For >500 To 1,000, Deduct   | -101.45                   |                         |
| For >1,000 To 2,000, Deduct   | -153.56                   |                         |
| For >2,000 To 5,000, Deduct   | -251.23                   |                         |
| For >5,000, Deduct  | -416.88                   |                         |
| 33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,180.90                  |                         |
| For Vinlyester Resin, Add   | 1,436.90                  |                         |
| For Epoxy Resin, Add  | 169.35                    |                         |
| For Up To >10, Add  | 1,410.90                  |                         |
| For >10 To 25, Add  | 833.63                    |                         |
| For >25 To 50, Add  | 602.81                    |                         |
| For >50 To 100, Add   | 301.41                    |                         |
| For >500 To 1,000, Deduct   | -112.25                   |                         |
| For >1,000 To 2,000, Deduct   | -169.98                   |                         |
| For >2,000 To 5,000, Deduct   | -278.37                   |                         |
| For >5,000, Deduct  | -461.82                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,382.53                  |                         |
| For Vinlyester Resin, Add   | 1,569.79                  |                         |
| For Epoxy Resin, Add  | 185.01                    |                         |
| For Up To >10, Add  | 1,541.22                  |                         |
| For >10 To 25, Add  | 910.59                    |                         |
| For >25 To 50, Add  | 658.48                    |                         |
| For >50 To 100, Add   | 329.24                    |                         |
| For >500 To 1,000, Deduct   | -122.63                   |                         |
| For >1,000 To 2,000, Deduct   | -185.69                   |                         |
| For >2,000 To 5,000, Deduct   | -304.10                   |                         |
| For >5,000, Deduct  | -504.50                   |                         |
| 33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,584.32                  |                         |
| For Vinlyester Resin, Add   | 1,702.67                  |                         |
| For Epoxy Resin, Add  | 200.67                    |                         |
| For Up To >10, Add  | 1,671.99                  |                         |
| For >10 To 25, Add  | 987.92                    |                         |
| For >25 To 50, Add  | 714.37                    |                         |
| For >50 To 100, Add   | 357.19                    |                         |
| For >500 To 1,000, Deduct   | -133.01                   |                         |
| For >1,000 To 2,000, Deduct   | -201.42                   |                         |
| For >2,000 To 5,000, Deduct   | -329.87                   |                         |
| For >5,000, Deduct  | -547.25                   |                         |
| 33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,785.97                  |                         |
| For Vinlyester Resin, Add   | 1,835.56                  |                         |
| For Epoxy Resin, Add  | 216.33                    |                         |
| For Up To >10, Add  | 1,802.34                  |                         |
| For >10 To 25, Add  | 1,064.91                  |                         |
| For >25 To 50, Add  | 770.06                    |                         |
| For >50 To 100, Add   | 385.03                    |                         |
| For >500 To 1,000, Deduct   | -143.39                   |                         |
| For >1,000 To 2,000, Deduct   | -217.13                   |                         |
| For >2,000 To 5,000, Deduct   | -355.60                   |                         |
| For >5,000, Deduct  | -589.94                   |                         |
| <b>33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>   |                           |                         |
| 33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 804.53                    |                         |
| For Vinlyester Resin, Add   | 531.99                    |                         |
| For Epoxy Resin, Add  | 62.70                     |                         |
| For Up To >10, Add  | 513.64                    |                         |
| For >10 To 25, Add  | 301.37                    |                         |
| For >25 To 50, Add  | 218.82                    |                         |
| For >50 To 100, Add   | 109.41                    |                         |
| For >500 To 1,000, Deduct   | -41.34                    |                         |
| For >1,000 To 2,000, Deduct   | -62.57                    |                         |
| For >2,000 To 5,000, Deduct   | -102.34                   |                         |
| For >5,000, Deduct  | -169.82                   |                         |
| 33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 910.36                    |                         |
| For Vinlyester Resin, Add   | 601.93                    |                         |
| For Epoxy Resin, Add  | 70.94                     |                         |
| For Up To >10, Add  | 581.33                    |                         |
| For >10 To 25, Add  | 341.13                    |                         |
| For >25 To 50, Add  | 247.67                    |                         |
| For >50 To 100, Add   | 123.84                    |                         |
| For >500 To 1,000, Deduct   | -46.78                    |                         |
| For >1,000 To 2,000, Deduct   | -70.80                    |                         |
| For >2,000 To 5,000, Deduct   | -115.80                   |                         |
| For >5,000, Deduct  | -192.16                   |                         |
| 33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,016.17                  |                         |
| For Vinlyester Resin, Add   | 671.87                    |                         |
| For Epoxy Resin, Add  | 79.18                     |                         |
| For Up To >10, Add  | 648.99                    |                         |
| For >10 To 25, Add  | 380.85                    |                         |
| For >25 To 50, Add  | 276.50                    |                         |
| For >50 To 100, Add   | 138.25                    |                         |
| For >500 To 1,000, Deduct   | -52.22                    |                         |
| For >1,000 To 2,000, Deduct   | -79.03                    |                         |
| For >2,000 To 5,000, Deduct   | -129.27                   |                         |
| For >5,000, Deduct  | -214.51                   |                         |
| 33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,227.66                  |                         |
| For Vinlyester Resin, Add   | 811.75                    |                         |
| For Epoxy Resin, Add  | 95.67                     |                         |
| For Up To >10, Add  | 783.88                    |                         |
| For >10 To 25, Add  | 459.96                    |                         |
| For >25 To 50, Add  | 333.96                    |                         |
| For >50 To 100, Add   | 166.98                    |                         |
| For >500 To 1,000, Deduct   | -63.08                    |                         |
| For >1,000 To 2,000, Deduct   | -95.48                    |                         |
| For >2,000 To 5,000, Deduct   | -156.16                   |                         |
| For >5,000, Deduct  | -259.14                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,439.29                  |                         |
| For Vinlyester Resin, Add   | 951.63                    |                         |
| For Epoxy Resin, Add  | 112.16                    |                         |
| For Up To >10, Add  | 919.20                    |                         |
| For >10 To 25, Add  | 539.42                    |                         |
| For >25 To 50, Add  | 391.62                    |                         |
| For >50 To 100, Add   | 195.81                    |                         |
| For >500 To 1,000, Deduct   | -73.96                    |                         |
| For >1,000 To 2,000, Deduct   | -111.94                   |                         |
| For >2,000 To 5,000, Deduct   | -183.09                   |                         |
| For >5,000, Deduct  | -303.82                   |                         |
| 33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,850.79                  |                         |
| For Vinlyester Resin, Add   | 1,091.51                  |                         |
| For Epoxy Resin, Add  | 128.64                    |                         |
| For Up To >10, Add  | 1,054.12                  |                         |
| For >10 To 25, Add  | 618.55                    |                         |
| For >25 To 50, Add  | 449.10                    |                         |
| For >50 To 100, Add   | 224.55                    |                         |
| For >500 To 1,000, Deduct   | -84.83                    |                         |
| For >1,000 To 2,000, Deduct   | -128.38                   |                         |
| For >2,000 To 5,000, Deduct   | -209.99                   |                         |
| For >5,000, Deduct  | -348.46                   |                         |
| 33 01 30 72-0209 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,862.43                  |                         |
| For Vinlyester Resin, Add   | 1,231.39                  |                         |
| For Epoxy Resin, Add  | 145.13                    |                         |
| For Up To >10, Add  | 1,189.47                  |                         |
| For >10 To 25, Add  | 698.03                    |                         |
| For >25 To 50, Add  | 506.78                    |                         |
| For >50 To 100, Add   | 253.39                    |                         |
| For >500 To 1,000, Deduct   | -95.70                    |                         |
| For >1,000 To 2,000, Deduct   | -144.85                   |                         |
| For >2,000 To 5,000, Deduct   | -236.92                   |                         |
| For >5,000, Deduct  | -393.15                   |                         |
| 33 01 30 72-0210 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,073.92                  |                         |
| For Vinlyester Resin, Add   | 1,371.27                  |                         |
| For Epoxy Resin, Add  | 161.61                    |                         |
| For Up To >10, Add  | 1,324.36                  |                         |
| For >10 To 25, Add  | 777.14                    |                         |
| For >25 To 50, Add  | 564.23                    |                         |
| For >50 To 100, Add   | 282.12                    |                         |
| For >500 To 1,000, Deduct   | -106.57                   |                         |
| For >1,000 To 2,000, Deduct   | -161.29                   |                         |
| For >2,000 To 5,000, Deduct   | -263.82                   |                         |
| For >5,000, Deduct  | -437.78                   |                         |
| 33 01 30 72-0211 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,291.88                  |                         |
| For Vinlyester Resin, Add   | 1,511.15                  |                         |
| For Epoxy Resin, Add  | 178.10                    |                         |
| For Up To >10, Add  | 1,478.67                  |                         |
| For >10 To 25, Add  | 872.42                    |                         |
| For >25 To 50, Add  | 631.39                    |                         |
| For >50 To 100, Add   | 315.70                    |                         |
| For >500 To 1,000, Deduct   | -117.92                   |                         |
| For >1,000 To 2,000, Deduct   | -178.55                   |                         |
| For >2,000 To 5,000, Deduct   | -292.33                   |                         |
| For >5,000, Deduct  | -484.99                   |                         |
| 33 01 30 72-0212 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,503.94                  |                         |
| For Vinlyester Resin, Add   | 1,651.03                  |                         |
| For Epoxy Resin, Add  | 194.59                    |                         |
| For Up To >10, Add  | 1,615.27                  |                         |
| For >10 To 25, Add  | 952.96                    |                         |
| For >25 To 50, Add  | 689.70                    |                         |
| For >50 To 100, Add   | 344.85                    |                         |
| For >500 To 1,000, Deduct   | -128.83                   |                         |
| For >1,000 To 2,000, Deduct   | -195.06                   |                         |
| For >2,000 To 5,000, Deduct   | -319.36                   |                         |
| For >5,000, Deduct  | -529.85                   |                         |
| 33 01 30 72-0213 LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,716.13                  |                         |
| For Vinlyester Resin, Add   | 1,790.91                  |                         |
| For Epoxy Resin, Add  | 211.07                    |                         |
| For Up To >10, Add  | 1,752.29                  |                         |
| For >10 To 25, Add  | 1,033.84                  |                         |
| For >25 To 50, Add  | 748.22                    |                         |
| For >50 To 100, Add   | 374.11                    |                         |
| For >500 To 1,000, Deduct   | -139.75                   |                         |
| For >1,000 To 2,000, Deduct   | -211.59                   |                         |
| For >2,000 To 5,000, Deduct   | -346.44                   |                         |
| For >5,000, Deduct  | -574.76                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0214 LF 30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 2,928.33                  |                         |
| For Vinlyester Resin, Add   | 1,930.79                  |                         |
| For Epoxy Resin, Add  | 227.56                    |                         |
| For Up To >10, Add  | 1,889.32                  |                         |
| For >10 To 25, Add  | 1,114.72                  |                         |
| For >25 To 50, Add  | 806.74                    |                         |
| For >50 To 100, Add   | 403.37                    |                         |
| For >500 To 1,000, Deduct   | -150.67                   |                         |
| For >1,000 To 2,000, Deduct   | -228.13                   |                         |
| For >2,000 To 5,000, Deduct   | -373.51                   |                         |
| For >5,000, Deduct  | -619.68                   |                         |
| 33 01 30 72-0215 LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 3,140.38                  |                         |
| For Vinlyester Resin, Add   | 2,070.67                  |                         |
| For Epoxy Resin, Add  | 244.04                    |                         |
| For Up To >10, Add  | 2,025.89                  |                         |
| For >10 To 25, Add  | 1,195.23                  |                         |
| For >25 To 50, Add  | 865.04                    |                         |
| For >50 To 100, Add   | 432.52                    |                         |
| For >500 To 1,000, Deduct   | -161.58                   |                         |
| For >1,000 To 2,000, Deduct   | -244.64                   |                         |
| For >2,000 To 5,000, Deduct   | -400.54                   |                         |
| For >5,000, Deduct  | -664.53                   |                         |
| 33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 3,352.58                  |                         |
| For Vinlyester Resin, Add   | 2,210.55                  |                         |
| For Epoxy Resin, Add  | 260.53                    |                         |
| For Up To >10, Add  | 2,162.92                  |                         |
| For >10 To 25, Add  | 1,276.11                  |                         |
| For >25 To 50, Add  | 923.56                    |                         |
| For >50 To 100, Add   | 461.78                    |                         |
| For >500 To 1,000, Deduct   | -172.50                   |                         |
| For >1,000 To 2,000, Deduct   | -261.18                   |                         |
| For >2,000 To 5,000, Deduct   | -427.61                   |                         |
| For >5,000, Deduct  | -709.45                   |                         |
| <b>33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>                |                           |                         |
| 33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 842.02                    |                         |
| For Vinlyester Resin, Add   | 557.14                    |                         |
| For Epoxy Resin, Add  | 65.66                     |                         |
| For Up To >10, Add  | 536.26                    |                         |
| For >10 To 25, Add  | 314.23                    |                         |
| For >25 To 50, Add  | 228.33                    |                         |
| For >50 To 100, Add   | 114.17                    |                         |
| For >500 To 1,000, Deduct   | -43.25                    |                         |
| For >1,000 To 2,000, Deduct   | -65.46                    |                         |
| For >2,000 To 5,000, Deduct   | -107.04                   |                         |
| For >5,000, Deduct  | -177.62                   |                         |
| 33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 952.97                    |                         |
| For Vinlyester Resin, Add   | 630.58                    |                         |
| For Epoxy Resin, Add  | 74.32                     |                         |
| For Up To >10, Add  | 606.84                    |                         |
| For >10 To 25, Add  | 355.56                    |                         |
| For >25 To 50, Add  | 258.38                    |                         |
| For >50 To 100, Add   | 129.19                    |                         |
| For >500 To 1,000, Deduct   | -48.95                    |                         |
| For >1,000 To 2,000, Deduct   | -74.08                    |                         |
| For >2,000 To 5,000, Deduct   | -121.13                   |                         |
| For >5,000, Deduct  | -201.02                   |                         |
| 33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,063.91                  |                         |
| For Vinlyester Resin, Add   | 704.01                    |                         |
| For Epoxy Resin, Add  | 82.97                     |                         |
| For Up To >10, Add  | 677.41                    |                         |
| For >10 To 25, Add  | 396.88                    |                         |
| For >25 To 50, Add  | 288.42                    |                         |
| For >50 To 100, Add   | 144.21                    |                         |
| For >500 To 1,000, Deduct   | -54.65                    |                         |
| For >1,000 To 2,000, Deduct   | -82.70                    |                         |
| For >2,000 To 5,000, Deduct   | -135.23                   |                         |
| For >5,000, Deduct  | -224.42                   |                         |
| 33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,285.97                  |                         |
| For Vinlyester Resin, Add   | 850.89                    |                         |
| For Epoxy Resin, Add  | 100.28                    |                         |
| For Up To >10, Add  | 819.01                    |                         |
| For >10 To 25, Add  | 479.92                    |                         |
| For >25 To 50, Add  | 348.73                    |                         |
| For >50 To 100, Add   | 174.36                    |                         |
| For >500 To 1,000, Deduct   | -66.06                    |                         |
| For >1,000 To 2,000, Deduct   | -99.97                    |                         |
| For >2,000 To 5,000, Deduct   | -163.47                   |                         |
| For >5,000, Deduct  | -271.28                   |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,507.88                  |                         |
| For Vinlyester Resin, Add   | 997.77                    |                         |
| For Epoxy Resin, Add  | 117.59                    |                         |
| For Up To >10, Add  | 960.19                    |                         |
| For >10 To 25, Add  | 562.60                    |                         |
| For >25 To 50, Add  | 408.83                    |                         |
| For >50 To 100, Add   | 204.41                    |                         |
| For >500 To 1,000, Deduct   | -77.46                    |                         |
| For >1,000 To 2,000, Deduct   | -117.22                   |                         |
| For >2,000 To 5,000, Deduct   | -191.67                   |                         |
| For >5,000, Deduct  | -318.08                   |                         |
| 33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,729.93                  |                         |
| For Vinlyester Resin, Add   | 1,144.64                  |                         |
| For Epoxy Resin, Add  | 134.90                    |                         |
| For Up To >10, Add  | 1,101.79                  |                         |
| For >10 To 25, Add  | 645.63                    |                         |
| For >25 To 50, Add  | 469.14                    |                         |
| For >50 To 100, Add   | 234.57                    |                         |
| For >500 To 1,000, Deduct   | -88.86                    |                         |
| For >1,000 To 2,000, Deduct   | -134.48                   |                         |
| For >2,000 To 5,000, Deduct   | -219.91                   |                         |
| For >5,000, Deduct  | -364.93                   |                         |
| 33 01 30 72-0224 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,951.83                  |                         |
| For Vinlyester Resin, Add   | 1,291.51                  |                         |
| For Epoxy Resin, Add  | 152.21                    |                         |
| For Up To >10, Add  | 1,242.94                  |                         |
| For >10 To 25, Add  | 728.28                    |                         |
| For >25 To 50, Add  | 529.22                    |                         |
| For >50 To 100, Add   | 264.61                    |                         |
| For >500 To 1,000, Deduct   | -100.26                   |                         |
| For >1,000 To 2,000, Deduct   | -151.73                   |                         |
| For >2,000 To 5,000, Deduct   | -248.10                   |                         |
| For >5,000, Deduct  | -411.73                   |                         |
| 33 01 30 72-0225 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,173.74                  |                         |
| For Vinlyester Resin, Add   | 1,438.39                  |                         |
| For Epoxy Resin, Add  | 169.52                    |                         |
| For Up To >10, Add  | 1,384.12                  |                         |
| For >10 To 25, Add  | 810.96                    |                         |
| For >25 To 50, Add  | 589.32                    |                         |
| For >50 To 100, Add   | 294.66                    |                         |
| For >500 To 1,000, Deduct   | -111.66                   |                         |
| For >1,000 To 2,000, Deduct   | -168.98                   |                         |
| For >2,000 To 5,000, Deduct   | -276.31                   |                         |
| For >5,000, Deduct  | -458.53                   |                         |
| 33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,402.40                  |                         |
| For Vinlyester Resin, Add   | 1,585.26                  |                         |
| For Epoxy Resin, Add  | 186.83                    |                         |
| For Up To >10, Add  | 1,545.55                  |                         |
| For >10 To 25, Add  | 910.52                    |                         |
| For >25 To 50, Add  | 659.54                    |                         |
| For >50 To 100, Add   | 329.77                    |                         |
| For >500 To 1,000, Deduct   | -123.56                   |                         |
| For >1,000 To 2,000, Deduct   | -187.07                   |                         |
| For >2,000 To 5,000, Deduct   | -306.19                   |                         |
| For >5,000, Deduct  | -508.03                   |                         |
| 33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,642.04                  |                         |
| For Vinlyester Resin, Add   | 1,743.97                  |                         |
| For Epoxy Resin, Add  | 205.54                    |                         |
| For Up To >10, Add  | 1,697.67                  |                         |
| For >10 To 25, Add  | 999.50                    |                         |
| For >25 To 50, Add  | 724.27                    |                         |
| For >50 To 100, Add   | 362.13                    |                         |
| For >500 To 1,000, Deduct   | -135.87                   |                         |
| For >1,000 To 2,000, Deduct   | -205.69                   |                         |
| For >2,000 To 5,000, Deduct   | -336.63                   |                         |
| For >5,000, Deduct  | -558.54                   |                         |
| 33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,847.47                  |                         |
| For Vinlyester Resin, Add   | 1,879.01                  |                         |
| For Epoxy Resin, Add  | 221.45                    |                         |
| For Up To >10, Add  | 1,831.66                  |                         |
| For >10 To 25, Add  | 1,079.00                  |                         |
| For >25 To 50, Add  | 781.62                    |                         |
| For >50 To 100, Add   | 390.81                    |                         |
| For >500 To 1,000, Deduct   | -146.45                   |                         |
| For >1,000 To 2,000, Deduct   | -221.72                   |                         |
| For >2,000 To 5,000, Deduct   | -362.91                   |                         |
| For >5,000, Deduct  | -602.13                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,070.88                  |                         |
| For Vinylster Resin, Add  | 2,025.88                  |                         |
| For Epoxy Resin, Add  | 238.76                    |                         |
| For Up To >10, Add  | 1,974.94                  |                         |
| For >10 To 25, Add  | 1,163.43                  |                         |
| For >25 To 50, Add  | 842.76                    |                         |
| For >50 To 100, Add   | 421.38                    |                         |
| For >500 To 1,000, Deduct   | -157.90                   |                         |
| For >1,000 To 2,000, Deduct   | -239.05                   |                         |
| For >2,000 To 5,000, Deduct   | -391.28                   |                         |
| For >5,000, Deduct  | -649.21                   |                         |
| 33 01 30 72-0230 LF 31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,292.54                  |                         |
| For Vinylster Resin, Add  | 2,172.76                  |                         |
| For Epoxy Resin, Add  | 256.08                    |                         |
| For Up To >10, Add  | 2,117.77                  |                         |
| For >10 To 25, Add  | 1,247.49                  |                         |
| For >25 To 50, Add  | 903.69                    |                         |
| For >50 To 100, Add   | 451.84                    |                         |
| For >500 To 1,000, Deduct   | -169.34                   |                         |
| For >1,000 To 2,000, Deduct   | -256.37                   |                         |
| For >2,000 To 5,000, Deduct   | -419.62                   |                         |
| For >5,000, Deduct  | -696.23                   |                         |
| 33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,515.16                  |                         |
| For Vinylster Resin, Add  | 2,319.63                  |                         |
| For Epoxy Resin, Add  | 273.39                    |                         |
| For Up To >10, Add  | 2,261.08                  |                         |
| For >10 To 25, Add  | 1,331.94                  |                         |
| For >25 To 50, Add  | 964.85                    |                         |
| For >50 To 100, Add   | 482.43                    |                         |
| For >500 To 1,000, Deduct   | -180.79                   |                         |
| For >1,000 To 2,000, Deduct   | -273.71                   |                         |
| For >2,000 To 5,000, Deduct   | -448.00                   |                         |
| For >5,000, Deduct  | -743.31                   |                         |
| <b>33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>   |                           |                         |
| 33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 879.16                    |                         |
| For Vinylster Resin, Add  | 582.16                    |                         |
| For Epoxy Resin, Add  | 68.61                     |                         |
| For Up To >10, Add  | 558.33                    |                         |
| For >10 To 25, Add  | 326.67                    |                         |
| For >25 To 50, Add  | 237.58                    |                         |
| For >50 To 100, Add   | 118.79                    |                         |
| For >500 To 1,000, Deduct   | -45.15                    |                         |
| For >1,000 To 2,000, Deduct   | -68.31                    |                         |
| For >2,000 To 5,000, Deduct   | -111.67                   |                         |
| For >5,000, Deduct  | -185.33                   |                         |
| 33 01 30 72-0234 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 995.38                    |                         |
| For Vinylster Resin, Add  | 659.09                    |                         |
| For Epoxy Resin, Add  | 77.68                     |                         |
| For Up To >10, Add  | 632.24                    |                         |
| For >10 To 25, Add  | 369.94                    |                         |
| For >25 To 50, Add  | 269.04                    |                         |
| For >50 To 100, Add   | 134.52                    |                         |
| For >500 To 1,000, Deduct   | -51.11                    |                         |
| For >1,000 To 2,000, Deduct   | -77.34                    |                         |
| For >2,000 To 5,000, Deduct   | -126.44                   |                         |
| For >5,000, Deduct  | -209.84                   |                         |
| 33 01 30 72-0235 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,111.47                  |                         |
| For Vinylster Resin, Add  | 736.02                    |                         |
| For Epoxy Resin, Add  | 86.75                     |                         |
| For Up To >10, Add  | 705.76                    |                         |
| For >10 To 25, Add  | 412.89                    |                         |
| For >25 To 50, Add  | 300.31                    |                         |
| For >50 To 100, Add   | 150.15                    |                         |
| For >500 To 1,000, Deduct   | -57.07                    |                         |
| For >1,000 To 2,000, Deduct   | -86.36                    |                         |
| For >2,000 To 5,000, Deduct   | -141.18                   |                         |
| For >5,000, Deduct  | -234.30                   |                         |
| 33 01 30 72-0236 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,343.94                  |                         |
| For Vinylster Resin, Add  | 889.90                    |                         |
| For Epoxy Resin, Add  | 104.88                    |                         |
| For Up To >10, Add  | 853.62                    |                         |
| For >10 To 25, Add  | 499.47                    |                         |
| For >25 To 50, Add  | 363.25                    |                         |
| For >50 To 100, Add   | 181.62                    |                         |
| For >500 To 1,000, Deduct   | -69.01                    |                         |
| For >1,000 To 2,000, Deduct   | -104.43                   |                         |
| For >2,000 To 5,000, Deduct   | -170.72                   |                         |
| For >5,000, Deduct  | -283.32                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,576.26                  |                         |
| For Vinlyester Resin, Add   | 1,043.76                  |                         |
| For Epoxy Resin, Add  | 123.01                    |                         |
| For Up To >10, Add  | 1,001.06                  |                         |
| For >10 To 25, Add  | 585.70                    |                         |
| For >25 To 50, Add  | 425.97                    |                         |
| For >50 To 100, Add   | 212.99                    |                         |
| For >500 To 1,000, Deduct   | -80.94                    |                         |
| For >1,000 To 2,000, Deduct   | -122.48                   |                         |
| For >2,000 To 5,000, Deduct   | -200.22                   |                         |
| For >5,000, Deduct  | -332.29                   |                         |
| 33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,808.72                  |                         |
| For Vinlyester Resin, Add   | 1,197.63                  |                         |
| For Epoxy Resin, Add  | 141.15                    |                         |
| For Up To >10, Add  | 1,148.91                  |                         |
| For >10 To 25, Add  | 672.28                    |                         |
| For >25 To 50, Add  | 488.91                    |                         |
| For >50 To 100, Add   | 244.46                    |                         |
| For >500 To 1,000, Deduct   | -92.88                    |                         |
| For >1,000 To 2,000, Deduct   | -140.55                   |                         |
| For >2,000 To 5,000, Deduct   | -229.76                   |                         |
| For >5,000, Deduct  | -381.31                   |                         |
| 33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,041.04                  |                         |
| For Vinlyester Resin, Add   | 1,351.50                  |                         |
| For Epoxy Resin, Add  | 159.28                    |                         |
| For Up To >10, Add  | 1,296.35                  |                         |
| For >10 To 25, Add  | 758.50                    |                         |
| For >25 To 50, Add  | 551.64                    |                         |
| For >50 To 100, Add   | 275.82                    |                         |
| For >500 To 1,000, Deduct   | -104.81                   |                         |
| For >1,000 To 2,000, Deduct   | -158.59                   |                         |
| For >2,000 To 5,000, Deduct   | -259.27                   |                         |
| For >5,000, Deduct  | -430.27                   |                         |
| 33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,273.36                  |                         |
| For Vinlyester Resin, Add   | 1,505.37                  |                         |
| For Epoxy Resin, Add  | 177.42                    |                         |
| For Up To >10, Add  | 1,443.76                  |                         |
| For >10 To 25, Add  | 844.71                    |                         |
| For >25 To 50, Add  | 614.35                    |                         |
| For >50 To 100, Add   | 307.18                    |                         |
| For >500 To 1,000, Deduct   | -116.74                   |                         |
| For >1,000 To 2,000, Deduct   | -176.64                   |                         |
| For >2,000 To 5,000, Deduct   | -288.77                   |                         |
| For >5,000, Deduct  | -479.24                   |                         |
| 33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,512.57                  |                         |
| For Vinlyester Resin, Add   | 1,659.24                  |                         |
| For Epoxy Resin, Add  | 195.55                    |                         |
| For Up To >10, Add  | 1,611.86                  |                         |
| For >10 To 25, Add  | 948.16                    |                         |
| For >25 To 50, Add  | 687.41                    |                         |
| For >50 To 100, Add   | 343.71                    |                         |
| For >500 To 1,000, Deduct   | -129.18                   |                         |
| For >1,000 To 2,000, Deduct   | -195.55                   |                         |
| For >2,000 To 5,000, Deduct   | -320.00                   |                         |
| For >5,000, Deduct  | -530.96                   |                         |
| 33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,746.02                  |                         |
| For Vinlyester Resin, Add   | 1,813.11                  |                         |
| For Epoxy Resin, Add  | 213.69                    |                         |
| For Up To >10, Add  | 1,762.69                  |                         |
| For >10 To 25, Add  | 1,037.21                  |                         |
| For >25 To 50, Add  | 751.84                    |                         |
| For >50 To 100, Add   | 375.92                    |                         |
| For >500 To 1,000, Deduct   | -141.20                   |                         |
| For >1,000 To 2,000, Deduct   | -213.75                   |                         |
| For >2,000 To 5,000, Deduct   | -349.79                   |                         |
| For >5,000, Deduct  | -580.38                   |                         |
| 33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,978.47                  |                         |
| For Vinlyester Resin, Add   | 1,966.97                  |                         |
| For Epoxy Resin, Add  | 231.82                    |                         |
| For Up To >10, Add  | 1,910.51                  |                         |
| For >10 To 25, Add  | 1,123.77                  |                         |
| For >25 To 50, Add  | 814.76                    |                         |
| For >50 To 100, Add   | 407.38                    |                         |
| For >500 To 1,000, Deduct   | -153.14                   |                         |
| For >1,000 To 2,000, Deduct   | -231.81                   |                         |
| For >2,000 To 5,000, Deduct   | -379.32                   |                         |
| For >5,000, Deduct  | -629.40                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 3,211.49                  |                         |
| For Vinlyester Resin, Add   | 2,120.84                  |                         |
| For Epoxy Resin, Add  | 249.96                    |                         |
| For Up To >10, Add  | 2,060.05                  |                         |
| For >10 To 25, Add  | 1,211.74                  |                         |
| For >25 To 50, Add  | 878.53                    |                         |
| For >50 To 100, Add   | 439.27                    |                         |
| For >500 To 1,000, Deduct   | -165.12                   |                         |
| For >1,000 To 2,000, Deduct   | -249.95                   |                         |
| For >2,000 To 5,000, Deduct   | -409.00                   |                         |
| For >5,000, Deduct  | -678.64                   |                         |
| 33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 3,444.52                  |                         |
| For Vinlyester Resin, Add   | 2,274.71                  |                         |
| For Epoxy Resin, Add  | 268.09                    |                         |
| For Up To >10, Add  | 2,209.59                  |                         |
| For >10 To 25, Add  | 1,299.72                  |                         |
| For >25 To 50, Add  | 942.31                    |                         |
| For >50 To 100, Add   | 471.16                    |                         |
| For >500 To 1,000, Deduct   | -177.10                   |                         |
| For >1,000 To 2,000, Deduct   | -268.09                   |                         |
| For >2,000 To 5,000, Deduct   | -438.68                   |                         |
| For >5,000, Deduct  | -727.89                   |                         |
| 33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 3,677.55                  |                         |
| For Vinlyester Resin, Add   | 2,428.58                  |                         |
| For Epoxy Resin, Add  | 286.23                    |                         |
| For Up To >10, Add  | 2,359.15                  |                         |
| For >10 To 25, Add  | 1,387.73                  |                         |
| For >25 To 50, Add  | 1,006.11                  |                         |
| For >50 To 100, Add   | 503.05                    |                         |
| For >500 To 1,000, Deduct   | -189.08                   |                         |
| For >1,000 To 2,000, Deduct   | -286.22                   |                         |
| For >2,000 To 5,000, Deduct   | -468.37                   |                         |
| For >5,000, Deduct  | -777.14                   |                         |
| <b>33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>                |                           |                         |
| 33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,037.19                  |                         |
| For Vinlyester Resin, Add   | 687.47                    |                         |
| For Epoxy Resin, Add  | 81.02                     |                         |
| For Up To >10, Add  | 656.32                    |                         |
| For >10 To 25, Add  | 383.25                    |                         |
| For >25 To 50, Add  | 279.06                    |                         |
| For >50 To 100, Add   | 139.53                    |                         |
| For >500 To 1,000, Deduct   | -53.24                    |                         |
| For >1,000 To 2,000, Deduct   | -80.54                    |                         |
| For >2,000 To 5,000, Deduct   | -131.62                   |                         |
| For >5,000, Deduct  | -218.46                   |                         |
| 33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,158.55                  |                         |
| For Vinlyester Resin, Add   | 767.89                    |                         |
| For Epoxy Resin, Add  | 90.50                     |                         |
| For Up To >10, Add  | 733.18                    |                         |
| For >10 To 25, Add  | 428.15                    |                         |
| For >25 To 50, Add  | 311.74                    |                         |
| For >50 To 100, Add   | 155.87                    |                         |
| For >500 To 1,000, Deduct   | -59.47                    |                         |
| For >1,000 To 2,000, Deduct   | -89.97                    |                         |
| For >2,000 To 5,000, Deduct   | -147.03                   |                         |
| For >5,000, Deduct  | -244.02                   |                         |
| 33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,401.29                  |                         |
| For Vinlyester Resin, Add   | 928.76                    |                         |
| For Epoxy Resin, Add  | 109.46                    |                         |
| For Up To >10, Add  | 886.87                    |                         |
| For >10 To 25, Add  | 517.93                    |                         |
| For >25 To 50, Add  | 377.10                    |                         |
| For >50 To 100, Add   | 188.55                    |                         |
| For >500 To 1,000, Deduct   | -71.93                    |                         |
| For >1,000 To 2,000, Deduct   | -108.82                   |                         |
| For >2,000 To 5,000, Deduct   | -177.84                   |                         |
| For >5,000, Deduct  | -295.16                   |                         |
| 33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,643.88                  |                         |
| For Vinlyester Resin, Add   | 1,089.62                  |                         |
| For Epoxy Resin, Add  | 128.42                    |                         |
| For Up To >10, Add  | 1,040.14                  |                         |
| For >10 To 25, Add  | 607.35                    |                         |
| For >25 To 50, Add  | 442.24                    |                         |
| For >50 To 100, Add   | 221.12                    |                         |
| For >500 To 1,000, Deduct   | -84.38                    |                         |
| For >1,000 To 2,000, Deduct   | -127.66                   |                         |
| For >2,000 To 5,000, Deduct   | -208.61                   |                         |
| For >5,000, Deduct  | -346.23                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,886.62                  |                         |
| For Vinlyester Resin, Add   | 1,250.49                  |                         |
| For Epoxy Resin, Add  | 147.38                    |                         |
| For Up To >10, Add  | 1,193.84                  |                         |
| For >10 To 25, Add  | 697.13                    |                         |
| For >25 To 50, Add  | 507.60                    |                         |
| For >50 To 100, Add   | 253.80                    |                         |
| For >500 To 1,000, Deduct   | -96.84                    |                         |
| For >1,000 To 2,000, Deduct   | -146.51                   |                         |
| For >2,000 To 5,000, Deduct   | -239.42                   |                         |
| For >5,000, Deduct  | -397.37                   |                         |
| 33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,129.20                  |                         |
| For Vinlyester Resin, Add   | 1,411.35                  |                         |
| For Epoxy Resin, Add  | 166.34                    |                         |
| For Up To >10, Add  | 1,347.08                  |                         |
| For >10 To 25, Add  | 786.53                    |                         |
| For >25 To 50, Add  | 572.73                    |                         |
| For >50 To 100, Add   | 286.36                    |                         |
| For >500 To 1,000, Deduct   | -109.28                   |                         |
| For >1,000 To 2,000, Deduct   | -165.34                   |                         |
| For >2,000 To 5,000, Deduct   | -270.19                   |                         |
| For >5,000, Deduct  | -448.44                   |                         |
| 33 01 30 72-0254 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,371.94                  |                         |
| For Vinlyester Resin, Add   | 1,572.21                  |                         |
| For Epoxy Resin, Add  | 185.30                    |                         |
| For Up To >10, Add  | 1,500.77                  |                         |
| For >10 To 25, Add  | 876.31                    |                         |
| For >25 To 50, Add  | 638.08                    |                         |
| For >50 To 100, Add   | 319.04                    |                         |
| For >500 To 1,000, Deduct   | -121.75                   |                         |
| For >1,000 To 2,000, Deduct   | -184.19                   |                         |
| For >2,000 To 5,000, Deduct   | -301.00                   |                         |
| For >5,000, Deduct  | -499.57                   |                         |
| 33 01 30 72-0255 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,621.56                  |                         |
| For Vinlyester Resin, Add   | 1,733.07                  |                         |
| For Epoxy Resin, Add  | 204.26                    |                         |
| For Up To >10, Add  | 1,675.13                  |                         |
| For >10 To 25, Add  | 983.31                    |                         |
| For >25 To 50, Add  | 713.77                    |                         |
| For >50 To 100, Add   | 356.89                    |                         |
| For >500 To 1,000, Deduct   | -134.72                   |                         |
| For >1,000 To 2,000, Deduct   | -203.90                   |                         |
| For >2,000 To 5,000, Deduct   | -333.53                   |                         |
| For >5,000, Deduct  | -553.46                   |                         |
| 33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,865.13                  |                         |
| For Vinlyester Resin, Add   | 1,893.93                  |                         |
| For Epoxy Resin, Add  | 223.21                    |                         |
| For Up To >10, Add  | 1,831.34                  |                         |
| For >10 To 25, Add  | 1,075.18                  |                         |
| For >25 To 50, Add  | 780.39                    |                         |
| For >50 To 100, Add   | 390.19                    |                         |
| For >500 To 1,000, Deduct   | -147.24                   |                         |
| For >1,000 To 2,000, Deduct   | -222.86                   |                         |
| For >2,000 To 5,000, Deduct   | -364.55                   |                         |
| For >5,000, Deduct  | -604.93                   |                         |
| 33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,105.90                  |                         |
| For Vinlyester Resin, Add   | 2,054.80                  |                         |
| For Epoxy Resin, Add  | 242.17                    |                         |
| For Up To >10, Add  | 1,979.13                  |                         |
| For >10 To 25, Add  | 1,160.03                  |                         |
| For >25 To 50, Add  | 842.79                    |                         |
| For >50 To 100, Add   | 421.40                    |                         |
| For >500 To 1,000, Deduct   | -159.56                   |                         |
| For >1,000 To 2,000, Deduct   | -241.47                   |                         |
| For >2,000 To 5,000, Deduct   | -394.87                   |                         |
| For >5,000, Deduct  | -655.27                   |                         |
| 33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,351.59                  |                         |
| For Vinlyester Resin, Add   | 2,215.66                  |                         |
| For Epoxy Resin, Add  | 261.13                    |                         |
| For Up To >10, Add  | 2,141.70                  |                         |
| For >10 To 25, Add  | 1,257.21                  |                         |
| For >25 To 50, Add  | 912.59                    |                         |
| For >50 To 100, Add   | 456.29                    |                         |
| For >500 To 1,000, Deduct   | -172.24                   |                         |
| For >1,000 To 2,000, Deduct   | -260.69                   |                         |
| For >2,000 To 5,000, Deduct   | -426.42                   |                         |
| For >5,000, Deduct  | -707.59                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0259 LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,594.88                  |                         |
| For Vinlyester Resin, Add   | 2,376.52                  |                         |
| For Epoxy Resin, Add  | 280.09                    |                         |
| For Up To >10, Add  | 2,297.07                  |                         |
| For >10 To 25, Add  | 1,348.38                  |                         |
| For >25 To 50, Add  | 978.78                    |                         |
| For >50 To 100, Add   | 489.39                    |                         |
| For >500 To 1,000, Deduct   | -184.74                   |                         |
| For >1,000 To 2,000, Deduct   | -279.61                   |                         |
| For >2,000 To 5,000, Deduct   | -457.37                   |                         |
| For >5,000, Deduct  | -758.95                   |                         |
| 33 01 30 72-0260 LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,838.19                  |                         |
| For Vinlyester Resin, Add   | 2,537.39                  |                         |
| For Epoxy Resin, Add  | 299.05                    |                         |
| For Up To >10, Add  | 2,452.47                  |                         |
| For >10 To 25, Add  | 1,439.59                  |                         |
| For >25 To 50, Add  | 1,044.99                  |                         |
| For >50 To 100, Add   | 522.50                    |                         |
| For >500 To 1,000, Deduct   | -197.24                   |                         |
| For >1,000 To 2,000, Deduct   | -298.53                   |                         |
| For >2,000 To 5,000, Deduct   | -488.32                   |                         |
| For >5,000, Deduct  | -810.31                   |                         |
| <b>33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>   |                           |                         |
| 33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,078.79                  |                         |
| For Vinlyester Resin, Add   | 715.70                    |                         |
| For Epoxy Resin, Add  | 84.35                     |                         |
| For Up To >10, Add  | 680.30                    |                         |
| For >10 To 25, Add  | 396.51                    |                         |
| For >25 To 50, Add  | 289.03                    |                         |
| For >50 To 100, Add   | 144.51                    |                         |
| For >500 To 1,000, Deduct   | -55.35                    |                         |
| For >1,000 To 2,000, Deduct   | -83.73                    |                         |
| For >2,000 To 5,000, Deduct   | -136.78                   |                         |
| For >5,000, Deduct  | -227.03                   |                         |
| 33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,205.29                  |                         |
| For Vinlyester Resin, Add   | 799.63                    |                         |
| For Epoxy Resin, Add  | 94.24                     |                         |
| For Up To >10, Add  | 760.05                    |                         |
| For >10 To 25, Add  | 442.98                    |                         |
| For >25 To 50, Add  | 322.91                    |                         |
| For >50 To 100, Add   | 161.45                    |                         |
| For >500 To 1,000, Deduct   | -61.84                    |                         |
| For >1,000 To 2,000, Deduct   | -93.54                    |                         |
| For >2,000 To 5,000, Deduct   | -152.82                   |                         |
| For >5,000, Deduct  | -253.65                   |                         |
| 33 01 30 72-0264 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,458.31                  |                         |
| For Vinlyester Resin, Add   | 967.49                    |                         |
| For Epoxy Resin, Add  | 114.03                    |                         |
| For Up To >10, Add  | 919.61                    |                         |
| For >10 To 25, Add  | 535.98                    |                         |
| For >25 To 50, Add  | 390.70                    |                         |
| For >50 To 100, Add   | 195.35                    |                         |
| For >500 To 1,000, Deduct   | -74.82                    |                         |
| For >1,000 To 2,000, Deduct   | -113.18                   |                         |
| For >2,000 To 5,000, Deduct   | -184.90                   |                         |
| For >5,000, Deduct  | -306.90                   |                         |
| 33 01 30 72-0265 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,711.30                  |                         |
| For Vinlyester Resin, Add   | 1,135.34                  |                         |
| For Epoxy Resin, Add  | 133.81                    |                         |
| For Up To >10, Add  | 1,079.10                  |                         |
| For >10 To 25, Add  | 628.93                    |                         |
| For >25 To 50, Add  | 458.45                    |                         |
| For >50 To 100, Add   | 229.23                    |                         |
| For >500 To 1,000, Deduct   | -87.80                    |                         |
| For >1,000 To 2,000, Deduct   | -132.82                   |                         |
| For >2,000 To 5,000, Deduct   | -216.98                   |                         |
| For >5,000, Deduct  | -360.14                   |                         |
| 33 01 30 72-0266 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 1,964.18                  |                         |
| For Vinlyester Resin, Add   | 1,303.20                  |                         |
| For Epoxy Resin, Add  | 153.59                    |                         |
| For Up To >10, Add  | 1,238.24                  |                         |
| For >10 To 25, Add  | 721.58                    |                         |
| For >25 To 50, Add  | 526.03                    |                         |
| For >50 To 100, Add   | 263.02                    |                         |
| For >500 To 1,000, Deduct   | -100.77                   |                         |
| For >1,000 To 2,000, Deduct   | -152.44                   |                         |
| For >2,000 To 5,000, Deduct   | -249.02                   |                         |
| For >5,000, Deduct  | -413.33                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0267 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,217.18                  |                         |
| For Vinlyester Resin, Add   | 1,471.06                  |                         |
| For Epoxy Resin, Add  | 173.37                    |                         |
| For Up To >10, Add  | 1,397.77                  |                         |
| For >10 To 25, Add  | 814.55                    |                         |
| For >25 To 50, Add  | 593.81                    |                         |
| For >50 To 100, Add   | 296.90                    |                         |
| For >500 To 1,000, Deduct   | -113.75                   |                         |
| For >1,000 To 2,000, Deduct   | -172.07                   |                         |
| For >2,000 To 5,000, Deduct   | -281.10                   |                         |
| For >5,000, Deduct  | -466.57                   |                         |
| 33 01 30 72-0268 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,470.19                  |                         |
| For Vinlyester Resin, Add   | 1,638.92                  |                         |
| For Epoxy Resin, Add  | 193.16                    |                         |
| For Up To >10, Add  | 1,557.30                  |                         |
| For >10 To 25, Add  | 907.53                    |                         |
| For >25 To 50, Add  | 661.58                    |                         |
| For >50 To 100, Add   | 330.79                    |                         |
| For >500 To 1,000, Deduct   | -126.73                   |                         |
| For >1,000 To 2,000, Deduct   | -191.71                   |                         |
| For >2,000 To 5,000, Deduct   | -313.18                   |                         |
| For >5,000, Deduct  | -519.81                   |                         |
| 33 01 30 72-0269 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,730.35                  |                         |
| For Vinlyester Resin, Add   | 1,806.77                  |                         |
| For Epoxy Resin, Add  | 212.94                    |                         |
| For Up To >10, Add  | 1,738.30                  |                         |
| For >10 To 25, Add  | 1,018.40                  |                         |
| For >25 To 50, Add  | 740.10                    |                         |
| For >50 To 100, Add   | 370.05                    |                         |
| For >500 To 1,000, Deduct   | -140.25                   |                         |
| For >1,000 To 2,000, Deduct   | -212.24                   |                         |
| For >2,000 To 5,000, Deduct   | -347.04                   |                         |
| For >5,000, Deduct  | -575.92                   |                         |
| 33 01 30 72-0270 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,984.07                  |                         |
| For Vinlyester Resin, Add   | 1,974.63                  |                         |
| For Epoxy Resin, Add  | 232.72                    |                         |
| For Up To >10, Add  | 1,899.96                  |                         |
| For >10 To 25, Add  | 1,113.15                  |                         |
| For >25 To 50, Add  | 808.94                    |                         |
| For >50 To 100, Add   | 404.47                    |                         |
| For >500 To 1,000, Deduct   | -153.28                   |                         |
| For >1,000 To 2,000, Deduct   | -231.96                   |                         |
| For >2,000 To 5,000, Deduct   | -379.30                   |                         |
| For >5,000, Deduct  | -629.45                   |                         |
| 33 01 30 72-0271 LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,233.00                  |                         |
| For Vinlyester Resin, Add   | 2,142.48                  |                         |
| For Epoxy Resin, Add  | 252.51                    |                         |
| For Up To >10, Add  | 2,047.28                  |                         |
| For >10 To 25, Add  | 1,195.95                  |                         |
| For >25 To 50, Add  | 870.60                    |                         |
| For >50 To 100, Add   | 435.30                    |                         |
| For >500 To 1,000, Deduct   | -165.96                   |                         |
| For >1,000 To 2,000, Deduct   | -251.09                   |                         |
| For >2,000 To 5,000, Deduct   | -410.36                   |                         |
| For >5,000, Deduct  | -681.06                   |                         |
| 33 01 30 72-0272 LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,491.35                  |                         |
| For Vinlyester Resin, Add   | 2,310.34                  |                         |
| For Epoxy Resin, Add  | 272.29                    |                         |
| For Up To >10, Add  | 2,222.83                  |                         |
| For >10 To 25, Add  | 1,302.27                  |                         |
| For >25 To 50, Add  | 946.39                    |                         |
| For >50 To 100, Add   | 473.19                    |                         |
| For >500 To 1,000, Deduct   | -179.34                   |                         |
| For >1,000 To 2,000, Deduct   | -271.39                   |                         |
| For >2,000 To 5,000, Deduct   | -443.77                   |                         |
| For >5,000, Deduct  | -736.44                   |                         |
| 33 01 30 72-0273 LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,745.05                  |                         |
| For Vinlyester Resin, Add   | 2,478.20                  |                         |
| For Epoxy Resin, Add  | 292.07                    |                         |
| For Up To >10, Add  | 2,384.45                  |                         |
| For >10 To 25, Add  | 1,397.00                  |                         |
| For >25 To 50, Add  | 1,015.21                  |                         |
| For >50 To 100, Add   | 507.61                    |                         |
| For >500 To 1,000, Deduct   | -192.37                   |                         |
| For >1,000 To 2,000, Deduct   | -291.12                   |                         |
| For >2,000 To 5,000, Deduct   | -476.03                   |                         |
| For >5,000, Deduct  | -789.96                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....   | 3,998.76                  |                         |
| For Vinlyester Resin, Add   | 2,646.06                  |                         |
| For Epoxy Resin, Add  | 311.86                    |                         |
| For Up To >10, Add  | 2,546.08                  |                         |
| For >10 To 25, Add  | 1,491.72                  |                         |
| For >25 To 50, Add  | 1,084.04                  |                         |
| For >50 To 100, Add   | 542.02                    |                         |
| For >500 To 1,000, Deduct   | -205.41                   |                         |
| For >1,000 To 2,000, Deduct   | -310.84                   |                         |
| For >2,000 To 5,000, Deduct   | -508.28                   |                         |
| For >5,000, Deduct  | -843.49                   |                         |
| 33 01 30 72-0275 LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 4,252.33                  |                         |
| For Vinlyester Resin, Add   | 2,813.91                  |                         |
| For Epoxy Resin, Add  | 331.64                    |                         |
| For Up To >10, Add  | 2,707.32                  |                         |
| For >10 To 25, Add  | 1,586.12                  |                         |
| For >25 To 50, Add  | 1,152.66                  |                         |
| For >50 To 100, Add   | 576.33                    |                         |
| For >500 To 1,000, Deduct   | -218.43                   |                         |
| For >1,000 To 2,000, Deduct   | -330.55                   |                         |
| For >2,000 To 5,000, Deduct   | -540.50                   |                         |
| For >5,000, Deduct  | -896.96                   |                         |
| 33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 4,506.04                  |                         |
| For Vinlyester Resin, Add   | 2,981.77                  |                         |
| For Epoxy Resin, Add  | 351.42                    |                         |
| For Up To >10, Add  | 2,868.95                  |                         |
| For >10 To 25, Add  | 1,680.84                  |                         |
| For >25 To 50, Add  | 1,221.49                  |                         |
| For >50 To 100, Add   | 610.74                    |                         |
| For >500 To 1,000, Deduct   | -231.46                   |                         |
| For >1,000 To 2,000, Deduct   | -350.27                   |                         |
| For >2,000 To 5,000, Deduct   | -572.75                   |                         |
| For >5,000, Deduct  | -950.48                   |                         |
| <b>33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>                |                           |                         |
| 33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,251.70                  |                         |
| For Vinlyester Resin, Add   | 831.23                    |                         |
| For Epoxy Resin, Add  | 97.97                     |                         |
| For Up To >10, Add  | 786.43                    |                         |
| For >10 To 25, Add  | 457.44                    |                         |
| For >25 To 50, Add  | 333.84                    |                         |
| For >50 To 100, Add   | 166.92                    |                         |
| For >500 To 1,000, Deduct   | -64.19                    |                         |
| For >1,000 To 2,000, Deduct   | -97.09                    |                         |
| For >2,000 To 5,000, Deduct   | -158.55                   |                         |
| For >5,000, Deduct  | -263.19                   |                         |
| 33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,514.98                  |                         |
| For Vinlyester Resin, Add   | 1,006.08                  |                         |
| For Epoxy Resin, Add  | 118.57                    |                         |
| For Up To >10, Add  | 951.79                    |                         |
| For >10 To 25, Add  | 553.62                    |                         |
| For >25 To 50, Add  | 404.03                    |                         |
| For >50 To 100, Add   | 202.02                    |                         |
| For >500 To 1,000, Deduct   | -77.69                    |                         |
| For >1,000 To 2,000, Deduct   | -117.51                   |                         |
| For >2,000 To 5,000, Deduct   | -191.90                   |                         |
| For >5,000, Deduct  | -318.54                   |                         |
| 33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 1,778.26                  |                         |
| For Vinlyester Resin, Add   | 1,180.93                  |                         |
| For Epoxy Resin, Add  | 139.18                    |                         |
| For Up To >10, Add  | 1,117.18                  |                         |
| For >10 To 25, Add  | 649.81                    |                         |
| For >25 To 50, Add  | 474.24                    |                         |
| For >50 To 100, Add   | 237.12                    |                         |
| For >500 To 1,000, Deduct   | -91.19                    |                         |
| For >1,000 To 2,000, Deduct   | -137.93                   |                         |
| For >2,000 To 5,000, Deduct   | -225.25                   |                         |
| For >5,000, Deduct  | -373.90                   |                         |
| 33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,041.53                  |                         |
| For Vinlyester Resin, Add   | 1,355.78                  |                         |
| For Epoxy Resin, Add  | 159.79                    |                         |
| For Up To >10, Add  | 1,282.52                  |                         |
| For >10 To 25, Add  | 745.96                    |                         |
| For >25 To 50, Add  | 544.42                    |                         |
| For >50 To 100, Add   | 272.21                    |                         |
| For >500 To 1,000, Deduct   | -104.69                   |                         |
| For >1,000 To 2,000, Deduct   | -158.35                   |                         |
| For >2,000 To 5,000, Deduct   | -258.59                   |                         |
| For >5,000, Deduct  | -429.25                   |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,304.82                  |                         |
| For Vinlyester Resin, Add   | 1,530.63                  |                         |
| For Epoxy Resin, Add  | 180.40                    |                         |
| For Up To >10, Add  | 1,447.91                  |                         |
| For >10 To 25, Add  | 842.16                    |                         |
| For >25 To 50, Add  | 614.62                    |                         |
| For >50 To 100, Add   | 307.31                    |                         |
| For >500 To 1,000, Deduct   | -118.20                   |                         |
| For >1,000 To 2,000, Deduct   | -178.77                   |                         |
| For >2,000 To 5,000, Deduct   | -291.94                   |                         |
| For >5,000, Deduct  | -484.60                   |                         |
| 33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,568.10                  |                         |
| For Vinlyester Resin, Add   | 1,705.49                  |                         |
| For Epoxy Resin, Add  | 201.00                    |                         |
| For Up To >10, Add  | 1,613.28                  |                         |
| For >10 To 25, Add  | 938.33                    |                         |
| For >25 To 50, Add  | 684.82                    |                         |
| For >50 To 100, Add   | 342.41                    |                         |
| For >500 To 1,000, Deduct   | -131.70                   |                         |
| For >1,000 To 2,000, Deduct   | -199.19                   |                         |
| For >2,000 To 5,000, Deduct   | -325.29                   |                         |
| For >5,000, Deduct  | -539.96                   |                         |
| 33 01 30 72-0284 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,838.68                  |                         |
| For Vinlyester Resin, Add   | 1,880.33                  |                         |
| For Epoxy Resin, Add  | 221.61                    |                         |
| For Up To >10, Add  | 1,800.57                  |                         |
| For >10 To 25, Add  | 1,052.77                  |                         |
| For >25 To 50, Add  | 765.97                    |                         |
| For >50 To 100, Add   | 382.99                    |                         |
| For >500 To 1,000, Deduct   | -145.75                   |                         |
| For >1,000 To 2,000, Deduct   | -220.53                   |                         |
| For >2,000 To 5,000, Deduct   | -360.47                   |                         |
| For >5,000, Deduct  | -598.23                   |                         |
| 33 01 30 72-0285 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,102.65                  |                         |
| For Vinlyester Resin, Add   | 2,055.18                  |                         |
| For Epoxy Resin, Add  | 242.22                    |                         |
| For Up To >10, Add  | 1,968.03                  |                         |
| For >10 To 25, Add  | 1,150.69                  |                         |
| For >25 To 50, Add  | 837.21                    |                         |
| For >50 To 100, Add   | 418.61                    |                         |
| For >500 To 1,000, Deduct   | -159.30                   |                         |
| For >1,000 To 2,000, Deduct   | -241.03                   |                         |
| For >2,000 To 5,000, Deduct   | -393.99                   |                         |
| For >5,000, Deduct  | -653.87                   |                         |
| 33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,364.25                  |                         |
| For Vinlyester Resin, Add   | 2,230.03                  |                         |
| For Epoxy Resin, Add  | 262.83                    |                         |
| For Up To >10, Add  | 2,128.35                  |                         |
| For >10 To 25, Add  | 1,242.67                  |                         |
| For >25 To 50, Add  | 904.89                    |                         |
| For >50 To 100, Add   | 452.44                    |                         |
| For >500 To 1,000, Deduct   | -172.67                   |                         |
| For >1,000 To 2,000, Deduct   | -261.24                   |                         |
| For >2,000 To 5,000, Deduct   | -426.91                   |                         |
| For >5,000, Deduct  | -708.55                   |                         |
| 33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,630.62                  |                         |
| For Vinlyester Resin, Add   | 2,404.89                  |                         |
| For Epoxy Resin, Add  | 283.43                    |                         |
| For Up To >10, Add  | 2,302.99                  |                         |
| For >10 To 25, Add  | 1,346.56                  |                         |
| For >25 To 50, Add  | 979.72                    |                         |
| For >50 To 100, Add   | 489.86                    |                         |
| For >500 To 1,000, Deduct   | -186.41                   |                         |
| For >1,000 To 2,000, Deduct   | -282.05                   |                         |
| For >2,000 To 5,000, Deduct   | -461.03                   |                         |
| For >5,000, Deduct  | -765.14                   |                         |
| 33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,894.61                  |                         |
| For Vinlyester Resin, Add   | 2,579.74                  |                         |
| For Epoxy Resin, Add  | 304.04                    |                         |
| For Up To >10, Add  | 2,470.48                  |                         |
| For >10 To 25, Add  | 1,444.51                  |                         |
| For >25 To 50, Add  | 1,050.97                  |                         |
| For >50 To 100, Add   | 525.49                    |                         |
| For >500 To 1,000, Deduct   | -199.96                   |                         |
| For >1,000 To 2,000, Deduct   | -302.56                   |                         |
| For >2,000 To 5,000, Deduct   | -494.56                   |                         |
| For >5,000, Deduct  | -820.78                   |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 4,158.44                  |                         |
| For Vinlyester Resin, Add  | 2,754.58                  |                         |
| For Epoxy Resin, Add   | 324.65                    |                         |
| For Up To >10, Add   | 2,637.52                  |                         |
| For >10 To 25, Add   | 1,542.08                  |                         |
| For >25 To 50, Add   | 1,122.00                  |                         |
| For >50 To 100, Add  | 561.00                    |                         |
| For >500 To 1,000, Deduct  | -213.51                   |                         |
| For >1,000 To 2,000, Deduct  | -323.05                   |                         |
| For >2,000 To 5,000, Deduct  | -528.04                   |                         |
| For >5,000, Deduct   | -876.35                   |                         |
| 33 01 30 72-0290 LF 37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,422.42                  |                         |
| For Vinlyester Resin, Add  | 2,929.44                  |                         |
| For Epoxy Resin, Add   | 345.26                    |                         |
| For Up To >10, Add   | 2,804.99                  |                         |
| For >10 To 25, Add   | 1,640.00                  |                         |
| For >25 To 50, Add   | 1,193.25                  |                         |
| For >50 To 100, Add  | 596.62                    |                         |
| For >500 To 1,000, Deduct  | -227.06                   |                         |
| For >1,000 To 2,000, Deduct  | -343.56                   |                         |
| For >2,000 To 5,000, Deduct  | -561.57                   |                         |
| For >5,000, Deduct   | -931.99                   |                         |
| 33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,686.41                  |                         |
| For Vinlyester Resin, Add  | 3,104.29                  |                         |
| For Epoxy Resin, Add   | 365.86                    |                         |
| For Up To >10, Add   | 2,972.48                  |                         |
| For >10 To 25, Add   | 1,737.95                  |                         |
| For >25 To 50, Add   | 1,264.51                  |                         |
| For >50 To 100, Add  | 632.25                    |                         |
| For >500 To 1,000, Deduct  | -240.61                   |                         |
| For >1,000 To 2,000, Deduct  | -364.07                   |                         |
| For >2,000 To 5,000, Deduct  | -595.09                   |                         |
| For >5,000, Deduct   | -987.62                   |                         |
| <b>33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>    |                           |                         |
| 33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 1,571.46                  |                         |
| For Vinlyester Resin, Add  | 1,044.53                  |                         |
| For Epoxy Resin, Add   | 123.11                    |                         |
| For Up To >10, Add   | 983.91                    |                         |
| For >10 To 25, Add   | 571.22                    |                         |
| For >25 To 50, Add   | 417.34                    |                         |
| For >50 To 100, Add  | 208.67                    |                         |
| For >500 To 1,000, Deduct  | -80.55                    |                         |
| For >1,000 To 2,000, Deduct  | -121.82                   |                         |
| For >2,000 To 5,000, Deduct  | -198.88                   |                         |
| For >5,000, Deduct   | -330.15                   |                         |
| 33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 1,845.01                  |                         |
| For Vinlyester Resin, Add  | 1,226.38                  |                         |
| For Epoxy Resin, Add   | 144.54                    |                         |
| For Up To >10, Add   | 1,155.11                  |                         |
| For >10 To 25, Add   | 670.59                    |                         |
| For >25 To 50, Add   | 489.95                    |                         |
| For >50 To 100, Add  | 244.98                    |                         |
| For >500 To 1,000, Deduct  | -94.58                    |                         |
| For >1,000 To 2,000, Deduct  | -143.03                   |                         |
| For >2,000 To 5,000, Deduct  | -233.50                   |                         |
| For >5,000, Deduct   | -387.61                   |                         |
| 33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 2,118.56                  |                         |
| For Vinlyester Resin, Add  | 1,408.23                  |                         |
| For Epoxy Resin, Add   | 165.97                    |                         |
| For Up To >10, Add   | 1,326.31                  |                         |
| For >10 To 25, Add   | 769.96                    |                         |
| For >25 To 50, Add   | 562.57                    |                         |
| For >50 To 100, Add  | 281.28                    |                         |
| For >500 To 1,000, Deduct  | -108.60                   |                         |
| For >1,000 To 2,000, Deduct  | -164.23                   |                         |
| For >2,000 To 5,000, Deduct  | -268.11                   |                         |
| For >5,000, Deduct   | -445.07                   |                         |
| 33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 2,392.11                  |                         |
| For Vinlyester Resin, Add  | 1,590.06                  |                         |
| For Epoxy Resin, Add   | 187.40                    |                         |
| For Up To >10, Add   | 1,497.53                  |                         |
| For >10 To 25, Add   | 869.36                    |                         |
| For >25 To 50, Add   | 635.19                    |                         |
| For >50 To 100, Add  | 317.59                    |                         |
| For >500 To 1,000, Deduct  | -122.62                   |                         |
| For >1,000 To 2,000, Deduct  | -185.44                   |                         |
| For >2,000 To 5,000, Deduct  | -302.73                   |                         |
| For >5,000, Deduct   | -502.54                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,665.80                  |                         |
| For Vinlyester Resin, Add   | 1,771.91                  |                         |
| For Epoxy Resin, Add  | 208.83                    |                         |
| For Up To >10, Add  | 1,669.15                  |                         |
| For >10 To 25, Add  | 969.08                    |                         |
| For >25 To 50, Add  | 708.01                    |                         |
| For >50 To 100, Add   | 354.01                    |                         |
| For >500 To 1,000, Deduct   | -136.65                   |                         |
| For >1,000 To 2,000, Deduct   | -206.66                   |                         |
| For >2,000 To 5,000, Deduct   | -337.38                   |                         |
| For >5,000, Deduct  | -560.06                   |                         |
| 33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,946.66                  |                         |
| For Vinlyester Resin, Add   | 1,953.76                  |                         |
| For Epoxy Resin, Add  | 230.26                    |                         |
| For Up To >10, Add  | 1,862.28                  |                         |
| For >10 To 25, Add  | 1,086.72                  |                         |
| For >25 To 50, Add  | 791.59                    |                         |
| For >50 To 100, Add   | 395.79                    |                         |
| For >500 To 1,000, Deduct   | -151.22                   |                         |
| For >1,000 To 2,000, Deduct   | -228.78                   |                         |
| For >2,000 To 5,000, Deduct   | -373.82                   |                         |
| For >5,000, Deduct  | -620.45                   |                         |
| 33 01 30 72-0299 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,220.92                  |                         |
| For Vinlyester Resin, Add   | 2,135.60                  |                         |
| For Epoxy Resin, Add  | 251.70                    |                         |
| For Up To >10, Add  | 2,035.61                  |                         |
| For >10 To 25, Add  | 1,187.87                  |                         |
| For >25 To 50, Add  | 865.26                    |                         |
| For >50 To 100, Add   | 432.63                    |                         |
| For >500 To 1,000, Deduct   | -165.30                   |                         |
| For >1,000 To 2,000, Deduct   | -250.07                   |                         |
| For >2,000 To 5,000, Deduct   | -408.62                   |                         |
| For >5,000, Deduct  | -678.20                   |                         |
| 33 01 30 72-0300 LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,495.17                  |                         |
| For Vinlyester Resin, Add   | 2,317.45                  |                         |
| For Epoxy Resin, Add  | 273.13                    |                         |
| For Up To >10, Add  | 2,208.91                  |                         |
| For >10 To 25, Add  | 1,288.99                  |                         |
| For >25 To 50, Add  | 938.92                    |                         |
| For >50 To 100, Add   | 469.46                    |                         |
| For >500 To 1,000, Deduct   | -179.37                   |                         |
| For >1,000 To 2,000, Deduct   | -271.36                   |                         |
| For >2,000 To 5,000, Deduct   | -443.41                   |                         |
| For >5,000, Deduct  | -735.94                   |                         |
| 33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,769.56                  |                         |
| For Vinlyester Resin, Add   | 2,499.29                  |                         |
| For Epoxy Resin, Add  | 294.56                    |                         |
| For Up To >10, Add  | 2,382.66                  |                         |
| For >10 To 25, Add  | 1,390.48                  |                         |
| For >25 To 50, Add  | 1,012.81                  |                         |
| For >50 To 100, Add   | 506.40                    |                         |
| For >500 To 1,000, Deduct   | -193.46                   |                         |
| For >1,000 To 2,000, Deduct   | -292.67                   |                         |
| For >2,000 To 5,000, Deduct   | -478.24                   |                         |
| For >5,000, Deduct  | -793.74                   |                         |
| 33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,043.82                  |                         |
| For Vinlyester Resin, Add   | 2,681.13                  |                         |
| For Epoxy Resin, Add  | 315.99                    |                         |
| For Up To >10, Add  | 2,555.99                  |                         |
| For >10 To 25, Add  | 1,491.62                  |                         |
| For >25 To 50, Add  | 1,086.48                  |                         |
| For >50 To 100, Add   | 543.24                    |                         |
| For >500 To 1,000, Deduct   | -207.53                   |                         |
| For >1,000 To 2,000, Deduct   | -313.97                   |                         |
| For >2,000 To 5,000, Deduct   | -513.03                   |                         |
| For >5,000, Deduct  | -851.49                   |                         |
| 33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,318.07                  |                         |
| For Vinlyester Resin, Add   | 2,862.98                  |                         |
| For Epoxy Resin, Add  | 337.42                    |                         |
| For Up To >10, Add  | 2,729.29                  |                         |
| For >10 To 25, Add  | 1,592.74                  |                         |
| For >25 To 50, Add  | 1,160.14                  |                         |
| For >50 To 100, Add   | 580.07                    |                         |
| For >500 To 1,000, Deduct   | -221.61                   |                         |
| For >1,000 To 2,000, Deduct   | -335.26                   |                         |
| For >2,000 To 5,000, Deduct   | -547.82                   |                         |
| For >5,000, Deduct  | -909.23                   |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0304 LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....        | 4,592.32                  |                         |
| For Vinyl Ester Resin, Add  | 3,044.83                  |                         |
| For Epoxy Resin, Add  | 358.85                    |                         |
| For Up To >10, Add  | 2,902.59                  |                         |
| For >10 To 25, Add  | 1,693.86                  |                         |
| For >25 To 50, Add  | 1,233.81                  |                         |
| For >50 To 100, Add   | 616.90                    |                         |
| For >500 To 1,000, Deduct   | -235.68                   |                         |
| For >1,000 To 2,000, Deduct   | -356.55                   |                         |
| For >2,000 To 5,000, Deduct   | -582.61                   |                         |
| For >5,000, Deduct  | -966.98                   |                         |
| 33 01 30 72-0305 LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....        | 4,866.59                  |                         |
| For Vinyl Ester Resin, Add  | 3,226.67                  |                         |
| For Epoxy Resin, Add  | 380.29                    |                         |
| For Up To >10, Add  | 3,075.95                  |                         |
| For >10 To 25, Add  | 1,795.03                  |                         |
| For >25 To 50, Add  | 1,307.50                  |                         |
| For >50 To 100, Add   | 653.75                    |                         |
| For >500 To 1,000, Deduct   | -249.76                   |                         |
| For >1,000 To 2,000, Deduct   | -377.85                   |                         |
| For >2,000 To 5,000, Deduct   | -617.41                   |                         |
| For >5,000, Deduct  | -1,024.73                 |                         |
| 33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....        | 5,140.83                  |                         |
| For Vinyl Ester Resin, Add  | 3,408.51                  |                         |
| For Epoxy Resin, Add  | 401.72                    |                         |
| For Up To >10, Add  | 3,249.24                  |                         |
| For >10 To 25, Add  | 1,896.15                  |                         |
| For >25 To 50, Add  | 1,381.16                  |                         |
| For >50 To 100, Add   | 690.58                    |                         |
| For >500 To 1,000, Deduct   | -263.83                   |                         |
| For >1,000 To 2,000, Deduct   | -399.14                   |                         |
| For >2,000 To 5,000, Deduct   | -652.20                   |                         |
| For >5,000, Deduct  | -1,082.47                 |                         |
| 33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....        | 5,415.08                  |                         |
| For Vinyl Ester Resin, Add  | 3,590.36                  |                         |
| For Epoxy Resin, Add  | 423.15                    |                         |
| For Up To >10, Add  | 3,422.54                  |                         |
| For >10 To 25, Add  | 1,997.27                  |                         |
| For >25 To 50, Add  | 1,454.82                  |                         |
| For >50 To 100, Add   | 727.41                    |                         |
| For >500 To 1,000, Deduct   | -277.90                   |                         |
| For >1,000 To 2,000, Deduct   | -420.43                   |                         |
| For >2,000 To 5,000, Deduct   | -686.99                   |                         |
| For >5,000, Deduct  | -1,140.22                 |                         |
| <b>33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b> ..... | <b>1,911.43</b>           |                         |
| 33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....       | 1,911.43                  |                         |
| For Vinyl Ester Resin, Add  | 1,271.69                  |                         |
| For Epoxy Resin, Add  | 149.88                    |                         |
| For Up To >10, Add  | 1,192.54                  |                         |
| For >10 To 25, Add  | 691.00                    |                         |
| For >25 To 50, Add  | 505.44                    |                         |
| For >50 To 100, Add   | 252.72                    |                         |
| For >500 To 1,000, Deduct   | -97.94                    |                         |
| For >1,000 To 2,000, Deduct   | -148.09                   |                         |
| For >2,000 To 5,000, Deduct   | -241.69                   |                         |
| For >5,000, Deduct  | -401.23                   |                         |
| 33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....       | 2,195.24                  |                         |
| For Vinyl Ester Resin, Add  | 1,460.52                  |                         |
| For Epoxy Resin, Add  | 172.13                    |                         |
| For Up To >10, Add  | 1,369.57                  |                         |
| For >10 To 25, Add  | 793.57                    |                         |
| For >25 To 50, Add  | 580.46                    |                         |
| For >50 To 100, Add   | 290.23                    |                         |
| For >500 To 1,000, Deduct   | -112.48                   |                         |
| For >1,000 To 2,000, Deduct   | -170.08                   |                         |
| For >2,000 To 5,000, Deduct   | -277.57                   |                         |
| For >5,000, Deduct  | -460.80                   |                         |
| 33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....       | 2,479.07                  |                         |
| For Vinyl Ester Resin, Add  | 1,649.37                  |                         |
| For Epoxy Resin, Add  | 194.39                    |                         |
| For Up To >10, Add  | 1,546.61                  |                         |
| For >10 To 25, Add  | 896.14                    |                         |
| For >25 To 50, Add  | 655.49                    |                         |
| For >50 To 100, Add   | 327.75                    |                         |
| For >500 To 1,000, Deduct   | -127.02                   |                         |
| For >1,000 To 2,000, Deduct   | -192.07                   |                         |
| For >2,000 To 5,000, Deduct   | -313.46                   |                         |
| For >5,000, Deduct  | -520.38                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 2,762.89                  |                         |
| For Vinlyester Resin, Add   | 1,838.20                  |                         |
| For Epoxy Resin, Add  | 216.65                    |                         |
| For Up To >10, Add  | 1,723.67                  |                         |
| For >10 To 25, Add  | 998.73                    |                         |
| For >25 To 50, Add  | 730.54                    |                         |
| For >50 To 100, Add   | 365.27                    |                         |
| For >500 To 1,000, Deduct   | -141.57                   |                         |
| For >1,000 To 2,000, Deduct   | -214.06                   |                         |
| For >2,000 To 5,000, Deduct   | -349.34                   |                         |
| For >5,000, Deduct  | -579.96                   |                         |
| 33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,054.31                  |                         |
| For Vinlyester Resin, Add   | 2,027.05                  |                         |
| For Epoxy Resin, Add  | 238.90                    |                         |
| For Up To >10, Add  | 1,923.48                  |                         |
| For >10 To 25, Add  | 1,120.27                  |                         |
| For >25 To 50, Add  | 816.95                    |                         |
| For >50 To 100, Add   | 408.48                    |                         |
| For >500 To 1,000, Deduct   | -156.68                   |                         |
| For >1,000 To 2,000, Deduct   | -237.00                   |                         |
| For >2,000 To 5,000, Deduct   | -387.13                   |                         |
| For >5,000, Deduct  | -642.57                   |                         |
| 33 01 30 72-0314 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,338.83                  |                         |
| For Vinlyester Resin, Add   | 2,215.88                  |                         |
| For Epoxy Resin, Add  | 261.16                    |                         |
| For Up To >10, Add  | 2,102.64                  |                         |
| For >10 To 25, Add  | 1,224.61                  |                         |
| For >25 To 50, Add  | 893.04                    |                         |
| For >50 To 100, Add   | 446.52                    |                         |
| For >500 To 1,000, Deduct   | -171.27                   |                         |
| For >1,000 To 2,000, Deduct   | -259.08                   |                         |
| For >2,000 To 5,000, Deduct   | -423.19                   |                         |
| For >5,000, Deduct  | -702.42                   |                         |
| 33 01 30 72-0315 LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,623.36                  |                         |
| For Vinlyester Resin, Add   | 2,404.72                  |                         |
| For Epoxy Resin, Add  | 283.41                    |                         |
| For Up To >10, Add  | 2,281.81                  |                         |
| For >10 To 25, Add  | 1,328.95                  |                         |
| For >25 To 50, Add  | 969.14                    |                         |
| For >50 To 100, Add   | 484.57                    |                         |
| For >500 To 1,000, Deduct   | -185.87                   |                         |
| For >1,000 To 2,000, Deduct   | -281.15                   |                         |
| For >2,000 To 5,000, Deduct   | -459.25                   |                         |
| For >5,000, Deduct  | -762.28                   |                         |
| 33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 3,907.88                  |                         |
| For Vinlyester Resin, Add   | 2,593.56                  |                         |
| For Epoxy Resin, Add  | 305.67                    |                         |
| For Up To >10, Add  | 2,460.94                  |                         |
| For >10 To 25, Add  | 1,433.27                  |                         |
| For >25 To 50, Add  | 1,045.22                  |                         |
| For >50 To 100, Add   | 522.61                    |                         |
| For >500 To 1,000, Deduct   | -200.46                   |                         |
| For >1,000 To 2,000, Deduct   | -303.23                   |                         |
| For >2,000 To 5,000, Deduct   | -495.31                   |                         |
| For >5,000, Deduct  | -822.14                   |                         |
| 33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,192.41                  |                         |
| For Vinlyester Resin, Add   | 2,782.40                  |                         |
| For Epoxy Resin, Add  | 327.93                    |                         |
| For Up To >10, Add  | 2,640.11                  |                         |
| For >10 To 25, Add  | 1,537.61                  |                         |
| For >25 To 50, Add  | 1,121.31                  |                         |
| For >50 To 100, Add   | 560.66                    |                         |
| For >500 To 1,000, Deduct   | -215.06                   |                         |
| For >1,000 To 2,000, Deduct   | -325.31                   |                         |
| For >2,000 To 5,000, Deduct   | -531.37                   |                         |
| For >5,000, Deduct  | -881.99                   |                         |
| 33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,476.94                  |                         |
| For Vinlyester Resin, Add   | 2,971.23                  |                         |
| For Epoxy Resin, Add  | 350.18                    |                         |
| For Up To >10, Add  | 2,819.27                  |                         |
| For >10 To 25, Add  | 1,641.96                  |                         |
| For >25 To 50, Add  | 1,197.40                  |                         |
| For >50 To 100, Add   | 598.70                    |                         |
| For >500 To 1,000, Deduct   | -229.66                   |                         |
| For >1,000 To 2,000, Deduct   | -347.39                   |                         |
| For >2,000 To 5,000, Deduct   | -567.43                   |                         |
| For >5,000, Deduct  | -941.85                   |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 72-0319 LF 40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,761.46                  |                         |
| For Vinlyester Resin, Add  | 3,160.07                  |                         |
| For Epoxy Resin, Add   | 372.44                    |                         |
| For Up To >10, Add   | 2,998.41                  |                         |
| For >10 To 25, Add   | 1,746.27                  |                         |
| For >25 To 50, Add   | 1,273.48                  |                         |
| For >50 To 100, Add  | 636.74                    |                         |
| For >500 To 1,000, Deduct  | -244.25                   |                         |
| For >1,000 To 2,000, Deduct  | -369.46                   |                         |
| For >2,000 To 5,000, Deduct  | -603.49                   |                         |
| For >5,000, Deduct   | -1,001.71                 |                         |
| 33 01 30 72-0320 LF 40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 5,045.99                  |                         |
| For Vinlyester Resin, Add  | 3,348.91                  |                         |
| For Epoxy Resin, Add   | 394.69                    |                         |
| For Up To >10, Add   | 3,177.57                  |                         |
| For >10 To 25, Add   | 1,850.62                  |                         |
| For >25 To 50, Add   | 1,349.58                  |                         |
| For >50 To 100, Add  | 674.79                    |                         |
| For >500 To 1,000, Deduct  | -258.85                   |                         |
| For >1,000 To 2,000, Deduct  | -391.54                   |                         |
| For >2,000 To 5,000, Deduct  | -639.56                   |                         |
| For >5,000, Deduct   | -1,061.56                 |                         |
| 33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 5,330.52                  |                         |
| For Vinlyester Resin, Add  | 3,537.75                  |                         |
| For Epoxy Resin, Add   | 416.95                    |                         |
| For Up To >10, Add   | 3,356.74                  |                         |
| For >10 To 25, Add   | 1,954.96                  |                         |
| For >25 To 50, Add   | 1,425.67                  |                         |
| For >50 To 100, Add  | 712.84                    |                         |
| For >500 To 1,000, Deduct  | -273.44                   |                         |
| For >1,000 To 2,000, Deduct  | -413.62                   |                         |
| For >2,000 To 5,000, Deduct  | -675.62                   |                         |
| For >5,000, Deduct   | -1,121.42                 |                         |
| 33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 5,615.05                  |                         |
| For Vinlyester Resin, Add  | 3,726.59                  |                         |
| For Epoxy Resin, Add   | 439.21                    |                         |
| For Up To >10, Add   | 3,535.90                  |                         |
| For >10 To 25, Add   | 2,059.30                  |                         |
| For >25 To 50, Add   | 1,501.77                  |                         |
| For >50 To 100, Add  | 750.88                    |                         |
| For >500 To 1,000, Deduct  | -288.04                   |                         |
| For >1,000 To 2,000, Deduct  | -435.70                   |                         |
| For >2,000 To 5,000, Deduct  | -711.68                   |                         |
| For >5,000, Deduct   | -1,181.28                 |                         |
| <b>33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>    |                           |                         |
| 33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 2,271.59                  |                         |
| For Vinlyester Resin, Add  | 1,512.69                  |                         |
| For Epoxy Resin, Add   | 178.28                    |                         |
| For Up To >10, Add   | 1,412.30                  |                         |
| For >10 To 25, Add   | 816.75                    |                         |
| For >25 To 50, Add   | 598.10                    |                         |
| For >50 To 100, Add  | 299.05                    |                         |
| For >500 To 1,000, Deduct  | -116.34                   |                         |
| For >1,000 To 2,000, Deduct  | -175.90                   |                         |
| For >2,000 To 5,000, Deduct  | -286.97                   |                         |
| For >5,000, Deduct   | -476.44                   |                         |
| 33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 2,565.69                  |                         |
| For Vinlyester Resin, Add  | 1,708.53                  |                         |
| For Epoxy Resin, Add   | 201.36                    |                         |
| For Up To >10, Add   | 1,595.20                  |                         |
| For >10 To 25, Add   | 922.54                    |                         |
| For >25 To 50, Add   | 675.56                    |                         |
| For >50 To 100, Add  | 337.78                    |                         |
| For >500 To 1,000, Deduct  | -131.41                   |                         |
| For >1,000 To 2,000, Deduct  | -198.67                   |                         |
| For >2,000 To 5,000, Deduct  | -324.13                   |                         |
| For >5,000, Deduct   | -538.13                   |                         |
| 33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....    | 2,859.79                  |                         |
| For Vinlyester Resin, Add  | 1,904.36                  |                         |
| For Epoxy Resin, Add   | 224.44                    |                         |
| For Up To >10, Add   | 1,778.10                  |                         |
| For >10 To 25, Add   | 1,028.33                  |                         |
| For >25 To 50, Add   | 753.02                    |                         |
| For >50 To 100, Add  | 376.51                    |                         |
| For >500 To 1,000, Deduct  | -146.47                   |                         |
| For >1,000 To 2,000, Deduct  | -221.45                   |                         |
| For >2,000 To 5,000, Deduct  | -361.28                   |                         |
| For >5,000, Deduct   | -599.81                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 3,161.62                  |                         |
| For Vinlyester Resin, Add  | 2,100.19                  |                         |
| For Epoxy Resin, Add   | 247.52                    |                         |
| For Up To >10, Add   | 1,984.19                  |                         |
| For >10 To 25, Add   | 1,153.44                  |                         |
| For >25 To 50, Add   | 842.08                    |                         |
| For >50 To 100, Add  | 421.04                    |                         |
| For >500 To 1,000, Deduct  | -162.11                   |                         |
| For >1,000 To 2,000, Deduct  | -245.19                   |                         |
| For >2,000 To 5,000, Deduct  | -400.37                   |                         |
| For >5,000, Deduct   | -664.59                   |                         |
| 33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 3,456.42                  |                         |
| For Vinlyester Resin, Add  | 2,296.03                  |                         |
| For Epoxy Resin, Add   | 270.60                    |                         |
| For Up To >10, Add   | 2,169.16                  |                         |
| For >10 To 25, Add   | 1,260.96                  |                         |
| For >25 To 50, Add   | 920.58                    |                         |
| For >50 To 100, Add  | 460.29                    |                         |
| For >500 To 1,000, Deduct  | -177.23                   |                         |
| For >1,000 To 2,000, Deduct  | -268.05                   |                         |
| For >2,000 To 5,000, Deduct  | -437.70                   |                         |
| For >5,000, Deduct   | -726.56                   |                         |
| 33 01 30 72-0329 LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 3,751.21                  |                         |
| For Vinlyester Resin, Add  | 2,491.85                  |                         |
| For Epoxy Resin, Add   | 293.68                    |                         |
| For Up To >10, Add   | 2,354.16                  |                         |
| For >10 To 25, Add   | 1,368.50                  |                         |
| For >25 To 50, Add   | 999.09                    |                         |
| For >50 To 100, Add  | 499.54                    |                         |
| For >500 To 1,000, Deduct  | -192.35                   |                         |
| For >1,000 To 2,000, Deduct  | -290.91                   |                         |
| For >2,000 To 5,000, Deduct  | -475.03                   |                         |
| For >5,000, Deduct   | -788.53                   |                         |
| 33 01 30 72-0330 LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 4,046.01                  |                         |
| For Vinlyester Resin, Add  | 2,687.69                  |                         |
| For Epoxy Resin, Add   | 316.76                    |                         |
| For Up To >10, Add   | 2,539.16                  |                         |
| For >10 To 25, Add   | 1,476.04                  |                         |
| For >25 To 50, Add   | 1,077.60                  |                         |
| For >50 To 100, Add  | 538.80                    |                         |
| For >500 To 1,000, Deduct  | -207.46                   |                         |
| For >1,000 To 2,000, Deduct  | -313.77                   |                         |
| For >2,000 To 5,000, Deduct  | -512.36                   |                         |
| For >5,000, Deduct   | -850.49                   |                         |
| 33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 4,340.82                  |                         |
| For Vinlyester Resin, Add  | 2,883.52                  |                         |
| For Epoxy Resin, Add   | 339.84                    |                         |
| For Up To >10, Add   | 2,724.16                  |                         |
| For >10 To 25, Add   | 1,583.58                  |                         |
| For >25 To 50, Add   | 1,156.11                  |                         |
| For >50 To 100, Add  | 578.06                    |                         |
| For >500 To 1,000, Deduct  | -222.58                   |                         |
| For >1,000 To 2,000, Deduct  | -336.64                   |                         |
| For >2,000 To 5,000, Deduct  | -549.69                   |                         |
| For >5,000, Deduct   | -912.46                   |                         |
| 33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....  | 4,635.62                  |                         |
| For Vinlyester Resin, Add  | 3,079.36                  |                         |
| For Epoxy Resin, Add   | 362.92                    |                         |
| For Up To >10, Add   | 2,909.16                  |                         |
| For >10 To 25, Add   | 1,691.12                  |                         |
| For >25 To 50, Add   | 1,234.63                  |                         |
| For >50 To 100, Add  | 617.31                    |                         |
| For >500 To 1,000, Deduct  | -237.69                   |                         |
| For >1,000 To 2,000, Deduct  | -359.50                   |                         |
| For >2,000 To 5,000, Deduct  | -587.02                   |                         |
| For >5,000, Deduct   | -974.43                   |                         |
| 33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 4,930.41                  |                         |
| For Vinlyester Resin, Add  | 3,275.19                  |                         |
| For Epoxy Resin, Add   | 386.00                    |                         |
| For Up To >10, Add   | 3,094.13                  |                         |
| For >10 To 25, Add   | 1,798.64                  |                         |
| For >25 To 50, Add   | 1,313.12                  |                         |
| For >50 To 100, Add  | 656.56                    |                         |
| For >500 To 1,000, Deduct  | -252.81                   |                         |
| For >1,000 To 2,000, Deduct  | -382.36                   |                         |
| For >2,000 To 5,000, Deduct  | -624.35                   |                         |
| For >5,000, Deduct   | -1,036.40                 |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 5,225.21                  |                         |
| For Vinylster Resin, Add   | 3,471.02                  |                         |
| For Epoxy Resin, Add   | 409.08                    |                         |
| For Up To >10, Add   | 3,279.13                  |                         |
| For >10 To 25, Add   | 1,906.18                  |                         |
| For >25 To 50, Add   | 1,391.64                  |                         |
| For >50 To 100, Add  | 695.82                    |                         |
| For >500 To 1,000, Deduct  | -267.93                   |                         |
| For >1,000 To 2,000, Deduct  | -405.22                   |                         |
| For >2,000 To 5,000, Deduct  | -661.68                   |                         |
| For >5,000, Deduct   | -1,098.36                 |                         |
| 33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 5,520.00                  |                         |
| For Vinylster Resin, Add   | 3,666.85                  |                         |
| For Epoxy Resin, Add   | 432.16                    |                         |
| For Up To >10, Add   | 3,464.10                  |                         |
| For >10 To 25, Add   | 2,013.69                  |                         |
| For >25 To 50, Add   | 1,470.13                  |                         |
| For >50 To 100, Add  | 735.07                    |                         |
| For >500 To 1,000, Deduct  | -283.04                   |                         |
| For >1,000 To 2,000, Deduct  | -428.08                   |                         |
| For >2,000 To 5,000, Deduct  | -699.01                   |                         |
| For >5,000, Deduct   | -1,160.33                 |                         |
| 33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)..... | 5,814.80                  |                         |
| For Vinylster Resin, Add   | 3,862.68                  |                         |
| For Epoxy Resin, Add   | 455.24                    |                         |
| For Up To >10, Add   | 3,649.10                  |                         |
| For >10 To 25, Add   | 2,121.23                  |                         |
| For >25 To 50, Add   | 1,548.64                  |                         |
| For >50 To 100, Add  | 774.32                    |                         |
| For >500 To 1,000, Deduct  | -298.16                   |                         |
| For >1,000 To 2,000, Deduct  | -450.94                   |                         |
| For >2,000 To 5,000, Deduct  | -736.34                   |                         |
| For >5,000, Deduct   | -1,222.30                 |                         |
| <br>   |                           |                         |
| <b>33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)</b>                                      |                           |                         |
| 33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)                     |                           |                         |
| 33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)                           |                           |                         |
| 33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....                              | 573.31                    |                         |
| 33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....                                    | 619.78                    |                         |
| 33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....                                    | 658.53                    |                         |
| 33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....                                   | 697.26                    |                         |
| 33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....                                   | 736.00                    |                         |
| <br>   |                           |                         |
| 33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)  |                           |                         |
| 33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)                              |                           |                         |
| 33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....                                | 642.98                    |                         |
| 33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder.....                                      | 736.80                    |                         |
| 33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder.....                                      | 830.62                    |                         |
| <br>   |                           |                         |
| 33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)           |                           |                         |
| 33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....             | 698.86                    |                         |
| 33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....            | 754.73                    |                         |
| <br>   |                           |                         |
| 33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)  |                           |                         |
| Note: As manufactured by LMK.  |                           |                         |
| 33 01 30 74-0017 EA Up To 4" Lateral T-Liner.....  | 808.19                    |                         |
| 33 01 30 74-0018 EA 6" Lateral T-Liner.....  | 905.23                    |                         |
| 33 01 30 74-0019 EA 8" Lateral T-Liner.....  | 1,051.63                  |                         |
| <br>   |                           |                         |
| 33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)  |                           |                         |
| 33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)  |                           |                         |
| 33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP).....              | 40.54                     |                         |
| For 7.5mm, Add   | 4.37                      |                         |
| For 9 mm, Add  | 8.64                      |                         |
| 33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP).....              | 48.26                     |                         |
| For 7.5mm, Add   | 5.95                      |                         |
| For 9 mm, Add  | 11.76                     |                         |
| 33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP).....              | 62.63                     |                         |
| For 7.5mm, Add   | 9.11                      |                         |
| For 9 mm, Add  | 18.01                     |                         |
| <br>   |                           |                         |
| <b>33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)</b>  |                           |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 79-0001 Form and Fold Relining Underground Pipelines <sup>(33 01 30 79)</sup><br>Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning. |                           |                         |
| 33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion <sup>(33 01 30 79-0001)</sup>  |                           |                         |
| 33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....  | 5,621.72                  |                         |
| 33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines .....   | 2,248.68                  |                         |
| 33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner <sup>(33 01 30 79-0001)</sup>  |                           |                         |
| 33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....   | 66.75                     |                         |
| For DR 26 Pipe Liner, Add   | 13.68                     |                         |
| For Up To 75, Add   | 29.00                     |                         |
| For >75 To 150, Add   | 14.50                     |                         |
| For >500 To 1,000, Deduct   | -0.90                     |                         |
| For >1,000 To 2,000, Deduct   | -1.81                     |                         |
| For >2,000, Deduct  | -3.61                     |                         |
| 33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....   | 87.29                     |                         |
| For DR 26 Pipe Liner, Add   | 18.58                     |                         |
| For DR 35 Pipe Liner, Deduct  | -9.29                     |                         |
| For Up To 75, Add   | 34.32                     |                         |
| For >75 To 150, Add   | 17.16                     |                         |
| For >500 To 1,000, Deduct   | -0.97                     |                         |
| For >1,000 To 2,000, Deduct   | -1.95                     |                         |
| For >2,000, Deduct  | -3.89                     |                         |
| 33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....   | 89.75                     |                         |
| For DR 26 Pipe Liner, Add   | 18.93                     |                         |
| For DR 35 Pipe Liner, Deduct  | -9.46                     |                         |
| For Up To 75, Add   | 36.22                     |                         |
| For >75 To 150, Add   | 18.11                     |                         |
| For >500 To 1,000, Deduct   | -1.05                     |                         |
| For >1,000 To 2,000, Deduct   | -2.11                     |                         |
| For >2,000, Deduct  | -4.22                     |                         |
| 33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....  | 128.88                    |                         |
| For DR 26 Pipe Liner, Add   | 28.39                     |                         |
| For DR 35 Pipe Liner, Deduct  | -14.19                    |                         |
| For DR 41 Pipe Liner, Deduct  | -28.39                    |                         |
| For Up To 75, Add   | 45.71                     |                         |
| For >75 To 150, Add   | 22.85                     |                         |
| For >500 To 1,000, Deduct   | -1.15                     |                         |
| For >1,000 To 2,000, Deduct   | -2.30                     |                         |
| For >2,000, Deduct  | -4.60                     |                         |
| 33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....  | 183.06                    |                         |
| For DR 26 Pipe Liner, Add   | 41.55                     |                         |
| For DR 35 Pipe Liner, Deduct  | -20.78                    |                         |
| For DR 41 Pipe Liner, Deduct  | -41.55                    |                         |
| For Up To 75, Add   | 58.53                     |                         |
| For >75 To 150, Add   | 29.27                     |                         |
| For >500 To 1,000, Deduct   | -1.26                     |                         |
| For >1,000 To 2,000, Deduct   | -2.53                     |                         |
| For >2,000, Deduct  | -5.06                     |                         |
| 33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....  | 253.14                    |                         |
| For DR 35 Pipe Liner, Deduct  | -29.25                    |                         |
| For DR 41 Pipe Liner, Deduct  | -58.50                    |                         |
| For Up To 75, Add   | 75.54                     |                         |
| For >75 To 150, Add   | 37.77                     |                         |
| For >500 To 1,000, Deduct   | -1.44                     |                         |
| For >1,000 To 2,000, Deduct   | -2.87                     |                         |
| For >2,000, Deduct  | -5.75                     |                         |
| 33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35 .....  | 360.89                    |                         |
| For DR 41 Pipe Liner, Deduct  | -33.93                    |                         |
| For DR 50 Pipe Liner, Deduct  | -67.85                    |                         |
| For Up To 75, Add   | 100.28                    |                         |
| For >75 To 150, Add   | 50.14                     |                         |
| For >500 To 1,000, Deduct   | -1.62                     |                         |
| For >1,000 To 2,000, Deduct   | -3.24                     |                         |
| For >2,000, Deduct  | -6.49                     |                         |
| 33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47 .....  | 408.80                    |                         |
| For DR 50 Pipe Liner, Deduct  | -57.81                    |                         |
| For DR 55 Pipe Liner, Deduct  | -96.35                    |                         |
| For Up To 75, Add   | 112.21                    |                         |
| For >75 To 150, Add   | 56.10                     |                         |
| For >500 To 1,000, Deduct   | -1.76                     |                         |
| For >1,000 To 2,000, Deduct   | -3.51                     |                         |
| For >2,000, Deduct  | -7.03                     |                         |
| 33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55 .....  | 500.40                    |                         |
| For DR 60 Pipe Liner, Deduct  | -71.23                    |                         |
| For Up To 75, Add   | 133.30                    |                         |
| For >75 To 150, Add   | 66.65                     |                         |
| For >500 To 1,000, Deduct   | -1.92                     |                         |
| For >1,000 To 2,000, Deduct   | -3.83                     |                         |
| For >2,000, Deduct  | -7.67                     |                         |
| 33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner <sup>(33 01 30 79-0001)</sup>   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....  | 71.91                     |                         |
| <i>For Up To 75, Add</i>  | 30.03                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 15.02                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.90                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -1.81                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -3.61                     |                         |
| <i>For DR 26 Pipe Liner, Add</i>  | 14.97                     |                         |
| 33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....  | 87.29                     |                         |
| <i>For Up To 75, Add</i>  | 34.32                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 17.16                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.97                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -1.95                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -3.89                     |                         |
| <i>For DR 26 Pipe Liner, Add</i>  | 18.58                     |                         |
| <i>For DR 35 Pipe Liner, Deduct</i>   | -9.29                     |                         |
| 33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....  | 96.63                     |                         |
| <i>For Up To 75, Add</i>  | 37.59                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 18.80                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.05                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -2.11                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -4.22                     |                         |
| <i>For DR 26 Pipe Liner, Add</i>  | 20.65                     |                         |
| <i>For DR 35 Pipe Liner, Deduct</i>   | -10.32                    |                         |
| 33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5..... | 139.20                    |                         |
| <i>For Up To 75, Add</i>  | 47.77                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 23.88                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.15                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -2.30                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -4.60                     |                         |
| <i>For DR 26 Pipe Liner, Add</i>  | 30.97                     |                         |
| <i>For DR 35 Pipe Liner, Deduct</i>   | -15.48                    |                         |
| <i>For DR 41 Pipe Liner, Deduct</i>   | -30.97                    |                         |
| 33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5..... | 198.54                    |                         |
| <i>For Up To 75, Add</i>  | 61.63                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 30.81                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.26                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -2.53                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -5.06                     |                         |
| <i>For DR 26 Pipe Liner, Add</i>  | 45.42                     |                         |
| <i>For DR 35 Pipe Liner, Deduct</i>   | -22.71                    |                         |
| <i>For DR 41 Pipe Liner, Deduct</i>   | -45.42                    |                         |
| 33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5..... | 275.16                    |                         |
| <i>For Up To 75, Add</i>  | 79.94                     |                         |
| <i>For &gt;75 To 150, Add</i>   | 39.97                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.44                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -2.87                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -5.75                     |                         |
| <i>For DR 35 Pipe Liner, Deduct</i>   | -32.00                    |                         |
| <i>For DR 41 Pipe Liner, Deduct</i>   | -64.00                    |                         |
| 33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....   | 393.24                    |                         |
| <i>For Up To 75, Add</i>  | 106.75                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 53.38                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.62                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -3.24                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -6.49                     |                         |
| <i>For DR 41 Pipe Liner, Deduct</i>   | -37.16                    |                         |
| <i>For DR 50 Pipe Liner, Deduct</i>   | -74.32                    |                         |
| 33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....   | 444.59                    |                         |
| <i>For Up To 75, Add</i>  | 119.36                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 59.68                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.76                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -3.51                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -7.03                     |                         |
| <i>For DR 50 Pipe Liner, Deduct</i>   | -63.18                    |                         |
| <i>For DR 55 Pipe Liner, Deduct</i>   | -105.29                   |                         |
| 33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....   | 545.82                    |                         |
| <i>For Up To 75, Add</i>  | 142.38                    |                         |
| <i>For &gt;75 To 150, Add</i>   | 71.19                     |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.92                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -3.83                     |                         |
| <i>For &gt;2,000, Deduct</i>  | -7.67                     |                         |
| <i>For DR 60 Pipe Liner, Deduct</i>   | -78.04                    |                         |

**33 01 30 81 Manhole Rehabilitation** (33 01 30)

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)  
 Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

|                  |   |           |
|------------------|---|-----------|
| 33 01 30 81-0003 | EA Inspect Manhole .....  | 182.04    |
| 33 01 30 81-0004 | EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System .....   | 14,657.50 |
|                  | Note: For internal inspection and repair of water mains.  |           |
| 33 01 30 81-0005 | EA >60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System ..... | 20,788.66 |
|                  | Note: For internal inspection and repair of water mains   |           |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>33 01 30 81-0006</b> <b>Manhole Seals</b> <small>(33 01 30 81-0001)</small>  |                           |                         |
| <b>33 01 30 81-0007</b> <b>Internal Manhole Chimney Seals</b> <small>(33 01 30 81-0006)</small>   |                           |                         |
| Note: Cretex.   |                           |                         |
| 33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....  | 596.13                    |                         |
| 33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....  | 628.36                    |                         |
| 33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....  | 644.47                    |                         |
| 33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....  | 741.14                    |                         |
| 33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....  | 837.81                    |                         |
| 33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....  | 934.48                    |                         |
| 33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....  | 1,127.82                  |                         |
| <b>33 01 30 81-0015</b> <b>External Manhole Encapsulation</b> <small>(33 01 30 81-0006)</small>   |                           |                         |
| Note: Wrapidseal.   |                           |                         |
| 33 01 30 81-0016 EA 24" External Manhole Encapsulation .....  | 870.03                    |                         |
| 33 01 30 81-0017 EA 30" External Manhole Encapsulation .....  | 918.37                    |                         |
| 33 01 30 81-0018 EA 36" External Manhole Encapsulation .....  | 982.82                    |                         |
| 33 01 30 81-0019 EA 42" External Manhole Encapsulation .....  | 1,063.37                  |                         |
| 33 01 30 81-0020 EA 48" External Manhole Encapsulation .....  | 1,176.16                  |                         |
| 33 01 30 81-0021 EA 54" External Manhole Encapsulation .....  | 1,305.04                  |                         |
| 33 01 30 81-0022 EA 60" External Manhole Encapsulation .....  | 1,466.17                  |                         |
| <b>33 01 30 81-0023</b> <b>Manhole Crack Repair</b> <small>(33 01 30 81-0001)</small>   |                           |                         |
| Note: Includes removing loose materials and cleaning.   |                           |                         |
| 33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair.....   | 54.24                     |                         |
| 33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair .....   | 73.08                     |                         |
| 33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair .....   | 51.19                     |                         |
| 33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair .....  | 69.49                     |                         |
| <b>33 01 30 81-0028</b> <b>Manhole Patching</b> <small>(33 01 30 81-0001)</small>   |                           |                         |
| Note: Includes removing loose materials and cleaning.   |                           |                         |
| 33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....   | 17.46                     |                         |
| 33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....  | 41.46                     |                         |
| <b>33 01 30 81-0031</b> <b>Manhole Joint Restoration</b> <small>(33 01 30 81-0001)</small>  |                           |                         |
| Note: Includes drilling holes at joints, fill joints with grout.  |                           |                         |
| 33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....   | 2,447.29                  |                         |
| Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.  |                           |                         |
| <i>For Grouting Each Additional Manhole Joint Section, Add</i>  |                           | 244.63                  |
| 33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....   | 2,856.87                  |                         |
| Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.  |                           |                         |
| <i>For Grouting Each Additional Manhole Joint Section, Add</i>  |                           | 272.90                  |
| 33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....   | 3,263.06                  |                         |
| Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.  |                           |                         |
| <i>For Grouting Each Additional Manhole Joint Section, Add</i>  |                           | 301.17                  |
| 33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....   | 3,868.48                  |                         |
| Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.  |                           |                         |
| <i>For Grouting Each Additional Manhole Joint Section, Add</i>  |                           | 315.30                  |
| 33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....   | 4,472.22                  |                         |
| Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.  |                           |                         |
| <i>For Grouting Each Additional Manhole Joint Section, Add</i>  |                           | 329.44                  |
| <b>33 01 30 81-0037</b> <b>Step Installation In Existing Manholes</b> <small>(33 01 30 81-0001)</small>                                 |                           |                         |
| Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes. |                           |                         |
| 33 01 30 81-0038 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....  | 150.90                    | 21.60                   |
| 33 01 30 81-0039 EA Drill And Grout Galvanized Steel Manhole Step.....  | 117.01                    | 21.60                   |
| 33 01 30 81-0040 EA Bolt On Galvanized Steel Manhole Step.....  | 140.12                    | 21.60                   |
| 33 01 30 81-0041 EA Drill And Grout Aluminum Manhole Step.....  | 144.85                    | 21.60                   |
| 33 01 30 81-0042 EA Drill And Insert Polypropylene Manhole Step.....  | 68.28                     | 17.29                   |
| <b>33 01 30 81-0043</b> <b>Manhole Penetration Sealing</b> <small>(33 01 30 81-0001)</small>  |                           |                         |
| Note: At new pipe connection to manhole.  |                           |                         |
| 33 01 30 81-0044 EA 6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....  | 412.20                    |                         |
| 33 01 30 81-0045 EA >12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....  | 640.72                    |                         |
| 33 01 30 81-0046 EA >22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....  | 884.18                    |                         |
| <b>33 01 30 81-0047</b> <b>Invert Restoration</b> <small>(33 01 30 81-0001)</small>   |                           |                         |
| Note: Includes removal of existing defective material and installation of new material.   |                           |                         |
| <b>33 01 30 81-0048</b> <b>Concrete Invert Restoration</b> <small>(33 01 30 81-0047)</small>  |                           |                         |
| 33 01 30 81-0049 EA 2' Diameter, Concrete Invert Restoration.....   | 392.22                    |                         |
| 33 01 30 81-0050 EA 3' Diameter, Concrete Invert Restoration.....   | 437.72                    |                         |
| 33 01 30 81-0051 EA 4' Diameter, Concrete Invert Restoration.....   | 483.23                    |                         |
| 33 01 30 81-0052 EA 5' Diameter, Concrete Invert Restoration.....   | 528.74                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 81-0053 EA 6' Diameter, Concrete Invert Restoration.....  | 665.27                    |                         |
| 33 01 30 81-0054 SF Square Or Rectangular, Concrete Invert Restoration .....   | 38.43                     |                         |
| <b>33 01 30 81-0055 Brick Invert Restoration (33 01 30 81-0047)</b>  |                           |                         |
| 33 01 30 81-0056 EA 2' Diameter, Brick Invert Restoration .....  | 607.80                    |                         |
| 33 01 30 81-0057 EA 3' Diameter, Brick Invert Restoration .....  | 653.31                    |                         |
| 33 01 30 81-0058 EA 4' Diameter, Brick Invert Restoration .....  | 698.82                    |                         |
| 33 01 30 81-0059 EA 5' Diameter, Brick Invert Restoration .....  | 744.33                    |                         |
| 33 01 30 81-0060 EA 6' Diameter, Brick Invert Restoration .....  | 789.84                    |                         |
| 33 01 30 81-0061 SF Square Or Rectangular, Brick Invert Restoration .....  | 52.94                     |                         |
| <b>33 01 30 81-0062 Repair In-Kind Of Drainage Structures (33 01 30 81)</b>  |                           |                         |
| Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size. |                           |                         |
| 33 01 30 81-0063 VLF 2' Diameter, Repair In-Kind Drainage Structure.....   | 822.86                    |                         |
| 33 01 30 81-0064 VLF 3' Diameter, Repair In-Kind Drainage Structure.....   | 1,234.30                  |                         |
| 33 01 30 81-0065 VLF 4' Diameter, Repair In-Kind Drainage Structure.....   | 1,645.84                  |                         |
| 33 01 30 81-0066 VLF 5' Diameter, Repair In-Kind Drainage Structure.....   | 2,057.16                  |                         |
| 33 01 30 81-0067 VLF 6' Diameter, Repair In-Kind Drainage Structure.....   | 2,468.60                  |                         |
| 33 01 30 81-0068 VLF 2' x 2', Repair In-Kind Drainage Structure.....   | 1,048.24                  |                         |
| 33 01 30 81-0069 VLF 2' x 3', Repair In-Kind Drainage Structure.....   | 1,310.29                  |                         |
| 33 01 30 81-0070 VLF 2' x 4', Repair In-Kind Drainage Structure.....   | 1,572.35                  |                         |
| 33 01 30 81-0071 VLF 3' x 4', Repair In-Kind Drainage Structure.....   | 1,834.41                  |                         |
| 33 01 30 81-0072 VLF 4' x 4', Repair In-Kind Drainage Structure.....   | 2,096.47                  |                         |
| 33 01 30 81-0073 VLF 4' x 5', Repair In-Kind Drainage Structure.....   | 2,358.53                  |                         |
| 33 01 30 81-0074 VLF 4' x 6', Repair In-Kind Drainage Structure.....   | 2,620.59                  |                         |
| 33 01 30 81-0075 VLF 4' x 8', Repair In-Kind Drainage Structure.....   | 3,144.71                  |                         |
| 33 01 30 81-0076 VLF >32 GSF, Repair In-Kind Drainage Structure .....  | 3,668.82                  |                         |
| <b>33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)</b>   |                           |                         |
| <b>33 01 30 82-0001 Epoxy Manhole Restoration, Interior (33 01 30 82)</b>  |                           |                         |
| 33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior .....  | 379.04                    |                         |
| <i>For 80 Mil Material, Add</i>  | 44.18                     |                         |
| <i>For 100 Mil Material, Add</i>   | 88.37                     |                         |
| <i>For 125 Mil Material, Add</i>   | 137.63                    |                         |
| <i>For 150 Mil Material, Add</i>   | 186.90                    |                         |
| <i>For 200 Mil Material, Add</i>   | 269.53                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -26.90                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -44.33                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -88.66                    |                         |
| 33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior .....  | 459.95                    |                         |
| <i>For 80 Mil Material, Add</i>  | 52.89                     |                         |
| <i>For 100 Mil Material, Add</i>   | 105.79                    |                         |
| <i>For 125 Mil Material, Add</i>   | 164.62                    |                         |
| <i>For 150 Mil Material, Add</i>   | 223.45                    |                         |
| <i>For 200 Mil Material, Add</i>   | 321.67                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -32.72                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -53.93                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -107.87                   |                         |
| 33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior .....  | 505.38                    |                         |
| <i>For 80 Mil Material, Add</i>  | 58.91                     |                         |
| <i>For 100 Mil Material, Add</i>   | 117.82                    |                         |
| <i>For 125 Mil Material, Add</i>   | 183.51                    |                         |
| <i>For 150 Mil Material, Add</i>   | 249.20                    |                         |
| <i>For 200 Mil Material, Add</i>   | 359.37                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -35.87                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -59.11                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -118.21                   |                         |
| 33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior .....  | 631.79                    |                         |
| <i>For 80 Mil Material, Add</i>  | 73.66                     |                         |
| <i>For 100 Mil Material, Add</i>   | 147.32                    |                         |
| <i>For 125 Mil Material, Add</i>   | 229.45                    |                         |
| <i>For 150 Mil Material, Add</i>   | 311.59                    |                         |
| <i>For 200 Mil Material, Add</i>   | 449.35                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -44.84                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -73.89                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -147.78                   |                         |
| 33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior .....  | 758.13                    |                         |
| <i>For 80 Mil Material, Add</i>  | 88.39                     |                         |
| <i>For 100 Mil Material, Add</i>   | 176.77                    |                         |
| <i>For 125 Mil Material, Add</i>   | 275.33                    |                         |
| <i>For 150 Mil Material, Add</i>   | 373.89                    |                         |
| <i>For 200 Mil Material, Add</i>   | 539.20                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -53.81                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -88.66                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -177.33                   |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

| <b>33 01 30 83 Lining for Concrete Manholes</b> <small>(33 01 30)</small> |   |         |  |
|---|---|---------|--|
| 33 01 30 83-0001  | Manhole Lining <small>(33 01 30 83)</small>   |         |  |
|   | Note: Includes power washing and cleaning of manhole interiors.   |         |  |
| 33 01 30 83-0002  | Cementitious Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>                                    |         |  |
| 33 01 30 83-0003  | VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....  | 170.54  |  |
|   | For Each Additional 1/2" Thick Material, Add  | 46.05   |  |
|   | For 2 To 5 Manholes, Deduct   | -11.88  |  |
|   | For 6 To 10 Manholes, Deduct  | -19.51  |  |
|   | For >10 Manholes, Deduct  | -39.01  |  |
| 33 01 30 83-0004  | VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior .....                                     | 197.78  |  |
|   | For Each Additional 1/2" Thick Material, Add  | 53.61   |  |
|   | For 2 To 5 Manholes, Deduct   | -13.78  |  |
|   | For 6 To 10 Manholes, Deduct  | -22.61  |  |
|   | For >10 Manholes, Deduct  | -45.22  |  |
| 33 01 30 83-0005  | VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....  | 225.02  |  |
|   | For Each Additional 1/2" Thick Material, Add  | 61.17   |  |
|   | For 2 To 5 Manholes, Deduct   | -15.67  |  |
|   | For 6 To 10 Manholes, Deduct  | -25.71  |  |
|   | For >10 Manholes, Deduct  | -51.42  |  |
| 33 01 30 83-0006  | VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....  | 265.68  |  |
|   | For Each Additional 1/2" Thick Material, Add  | 75.14   |  |
|   | For 2 To 5 Manholes, Deduct   | -18.41  |  |
|   | For 6 To 10 Manholes, Deduct  | -30.17  |  |
|   | For >10 Manholes, Deduct  | -60.35  |  |
| 33 01 30 83-0007  | VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....  | 291.60  |  |
|   | For Each Additional 1/2" Thick Material, Add  | 87.16   |  |
|   | For 2 To 5 Manholes, Deduct   | -20.06  |  |
|   | For 6 To 10 Manholes, Deduct  | -32.83  |  |
|   | For >10 Manholes, Deduct  | -65.65  |  |
| 33 01 30 83-0008  | Polyurethane Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>                                    |         |  |
| 33 01 30 83-0009  | VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior .....                                       | 339.34  |  |
|   | For 80 Mil Material, Add  | 30.95   |  |
|   | For 100 Mil Material, Add   | 61.90   |  |
|   | For 125 Mil Material, Add   | 94.63   |  |
|   | For 150 Mil Material, Add   | 127.35  |  |
|   | For 200 Mil Material, Add   | 176.90  |  |
|   | For 2 To 5 Manholes, Deduct   | -24.92  |  |
|   | For 6 To 10 Manholes, Deduct  | -41.35  |  |
|   | For >10 Manholes, Deduct  | -82.71  |  |
| 33 01 30 83-0010  | VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior .....                                   | 413.57  |  |
|   | For 80 Mil Material, Add  | 37.43   |  |
|   | For 100 Mil Material, Add   | 74.87   |  |
|   | For 125 Mil Material, Add   | 114.37  |  |
|   | For 150 Mil Material, Add   | 153.88  |  |
|   | For 200 Mil Material, Add   | 213.45  |  |
|   | For 2 To 5 Manholes, Deduct   | -30.40  |  |
|   | For 6 To 10 Manholes, Deduct  | -50.45  |  |
|   | For >10 Manholes, Deduct  | -100.91 |  |
| 33 01 30 83-0011  | VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior .....                                       | 452.45  |  |
|   | For 80 Mil Material, Add  | 41.27   |  |
|   | For 100 Mil Material, Add   | 82.54   |  |
|   | For 125 Mil Material, Add   | 126.17  |  |
|   | For 150 Mil Material, Add   | 169.80  |  |
|   | For 200 Mil Material, Add   | 235.87  |  |
|   | For 2 To 5 Manholes, Deduct   | -33.22  |  |
|   | For 6 To 10 Manholes, Deduct  | -55.14  |  |
|   | For >10 Manholes, Deduct  | -110.27 |  |
| 33 01 30 83-0012  | VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior .....                                       | 565.57  |  |
|   | For 80 Mil Material, Add  | 51.59   |  |
|   | For 100 Mil Material, Add   | 103.17  |  |
|   | For 125 Mil Material, Add   | 157.72  |  |
|   | For 150 Mil Material, Add   | 212.26  |  |
|   | For 200 Mil Material, Add   | 294.84  |  |
|   | For 2 To 5 Manholes, Deduct   | -41.53  |  |
|   | For 6 To 10 Manholes, Deduct  | -68.92  |  |
|   | For >10 Manholes, Deduct  | -137.84 |  |
| 33 01 30 83-0013  | VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior .....                                       | 678.68  |  |
|   | For 80 Mil Material, Add  | 61.90   |  |
|   | For 100 Mil Material, Add   | 123.81  |  |
|   | For 125 Mil Material, Add   | 189.26  |  |
|   | For 150 Mil Material, Add   | 254.71  |  |
|   | For 200 Mil Material, Add   | 353.81  |  |
|   | For 2 To 5 Manholes, Deduct   | -49.84  |  |
|   | For 6 To 10 Manholes, Deduct  | -82.71  |  |
|   | For >10 Manholes, Deduct  | -165.41 |  |
| 33 01 30 83-0014  | Multiplaxx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration,<br>Interior <small>(33 01 30 83-0001)</small> |         |  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....  | 572.08                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -33.35                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -52.39                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -104.79                   |                         |
| 33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....  | 700.57                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -40.83                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -64.14                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -128.28                   |                         |
| 33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....  | 824.92                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -47.57                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -74.52                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -149.04                   |                         |
| 33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....  | 1,034.47                  |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -59.63                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -93.40                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -186.79                   |                         |
| 33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....  | 1,244.02                  |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -71.69                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -112.27                   |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -224.55                   |                         |
| <br><b>33 01 30 86 Manhole Rim Adjustment (33 01 30)</b>   |                           |                         |
| 33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)   |                           |                         |
| 33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)                           |                           |                         |
| 33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....                                      | 364.37                    |                         |
| 33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                      | 409.79                    |                         |
| 33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                      | 451.08                    |                         |
| 33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                      | 497.85                    |                         |
| 33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                      | 535.91                    |                         |
| <br>33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)                  |                           |                         |
| 33 01 30 86-0009 EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....                                | 428.08                    |                         |
| 33 01 30 86-0010 EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....                                | 466.60                    |                         |
| 33 01 30 86-0011 EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                | 515.01                    |                         |
| 33 01 30 86-0012 EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                | 561.77                    |                         |
| 33 01 30 86-0013 EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....                                | 606.90                    |                         |
| <br>33 01 30 86-0014 Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers (33 01 30 86-0001)  |                           |                         |
| 33 01 30 86-0015 EA Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers .....  | 491.47                    |                         |
| 33 01 30 86-0016 EA >4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....  | 519.39                    |                         |
| 33 01 30 86-0017 EA >5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....  | 549.39                    |                         |
| <br>33 01 30 86-0018 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)                                      |                           |                         |
| 33 01 30 86-0019 EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....  | 598.02                    |                         |
| 33 01 30 86-0020 EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....  | 650.37                    |                         |
| 33 01 30 86-0021 EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....  | 703.56                    |                         |
| 33 01 30 86-0022 EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....  | 746.00                    |                         |
| 33 01 30 86-0023 EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....  | 810.62                    |                         |
| 33 01 30 86-0024 EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....   | 869.41                    |                         |
| 33 01 30 86-0025 EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....   | 927.00                    |                         |
| 33 01 30 86-0026 EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....   | 985.82                    |                         |
| <br>33 01 30 86-0027 >12" Rise, Solid Manhole Risers (33 01 30 86)   |                           |                         |
| 33 01 30 86-0028 Precast Concrete Manhole Riser (33 01 30 86-0027)   |                           |                         |
| 33 01 30 86-0029 VLF Up To 26" Diameter Precast Concrete Manhole Riser.....  | 134.22                    |                         |
| 33 01 30 86-0030 VLF >26" To 36" Diameter Precast Concrete Manhole Riser.....  | 159.68                    |                         |
| 33 01 30 86-0031 VLF >36" To 48" Diameter Precast Concrete Manhole Riser .....   | 178.08                    |                         |
| 33 01 30 86-0032 VLF >48" To 60" Diameter Precast Concrete Manhole Riser.....  | 363.47                    |                         |
| 33 01 30 86-0033 VLF >60" To 72" Diameter Precast Concrete Manhole Riser.....  | 532.37                    |                         |
| <br><b>33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)</b>  |                           |                         |
| 33 01 30 89-0001 Set-Up By-Pass Pumping Unit (33 01 30 89)   |                           |                         |
| Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1038 for pump rental, 01 22 23 00-1071 for suction hose, 01 22 23 00-1090 for discharge hose. |                           |                         |
| 33 01 30 89-0002 EA Set-up By-Pass Pumping Unit .....  | 2,126.44                  |                         |
| 33 01 30 89-0003 EA Re-Set Up/Move By-Pass Pumping Unit .....  | 1,063.22                  |                         |

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

|                  |   |  |           |
|------------------|---|--|-----------|
| 33 01 30 89-0004 | <b>By-Pass Pumping</b> <small>(33 01 30 89)</small>   |  |           |
|                  | Note: Excludes pump rental. See CSI section 01 22 23 00-1038 for pump rental.   |  |           |
| 33 01 30 89-0005 | DAY Maintain And Operate By-Pass Pumping Unit .....   |  | 531.61    |
| 33 01 30 89-0006 | WK Maintain And Operate By-Pass Pumping Unit .....  |  | 2,658.05  |
| 33 01 30 89-0007 | MO Maintain And Operate By-Pass Pumping Unit .....  |  | 11,163.79 |
| 33 01 30 89-0008 | <b>Temporary Bypass And Service Lines</b> <small>(33 01 30 89)</small>  |  |           |
|                  | Note: Laid on ground, includes fittings and connections. Remove after use.  |  |           |
| 33 01 30 89-0009 | <b>Temporary Water Service Lines</b> <small>(33 01 30 89-0008)</small>  |  |           |
|                  | Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.              |  |           |
| 33 01 30 89-0010 | LF 1/2" Temporary Service Hose With Fittings .....  |  | 3.89      |
|                  | Note: Includes removal after use.   |  |           |
| 33 01 30 89-0011 | LF 3/4" Temporary Service Hose With Fittings .....  |  | 4.93      |
|                  | Note: Includes removal after use.   |  |           |
| 33 01 30 89-0012 | LF 1" Temporary Service Hose With Fittings .....  |  | 5.75      |
|                  | Note: Includes removal after use.   |  |           |
| 33 01 30 89-0013 | LF 1-1/2" Temporary Service Hose With Fittings .....  |  | 6.90      |
|                  | Note: Includes removal after use.   |  |           |
| 33 01 30 89-0014 | LF 2" Temporary Service Hose With Fittings .....  |  | 8.49      |
|                  | Note: Includes removal after use.   |  |           |
| 33 01 30 89-0015 | EA Temporary Service Valve Assembly At Fire Hydrant .....   |  | 422.94    |
|                  | Note: Includes removal after use.   |  |           |
| 33 01 30 89-0016 | <b>Temporary Bypass Water Main Lines</b> <small>(33 01 30 89-0008)</small>  |  |           |
|                  | Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.              |  |           |
| 33 01 30 89-0017 | LF 2" Temporary Bypass Pipe With Fittings .....   |  | 8.58      |
|                  | Note: Includes removal after use.   |  |           |
|                  | For >500 To 1,000, Deduct   |  | -0.59     |
|                  | For >1,000 To 5,000, Deduct   |  | -1.17     |
|                  | For >5,000, Deduct  |  | -1.96     |
| 33 01 30 89-0018 | LF 4" Temporary Bypass Pipe With Fittings .....   |  | 10.88     |
|                  | Note: Includes removal after use.   |  |           |
|                  | For >500 To 1,000, Deduct   |  | -0.76     |
|                  | For >1,000 To 5,000, Deduct   |  | -1.51     |
|                  | For >5,000, Deduct  |  | -2.52     |
| 33 01 30 89-0019 | LF 6" Temporary Bypass Pipe With Fittings .....   |  | 13.40     |
|                  | Note: Includes removal after use.   |  |           |
|                  | For >500 To 1,000, Deduct   |  | -0.88     |
|                  | For >1,000 To 5,000, Deduct   |  | -1.76     |
|                  | For >5,000, Deduct  |  | -2.94     |
| 33 01 30 89-0020 | LF 8" Temporary Bypass Pipe With Fittings .....   |  | 16.93     |
|                  | Note: Includes removal after use.   |  |           |
|                  | For >500 To 1,000, Deduct   |  | -1.06     |
|                  | For >1,000 To 5,000, Deduct   |  | -2.12     |
|                  | For >5,000, Deduct  |  | -3.53     |
| 33 01 30 89-0021 | <b>Piping Protection For Temporary Water Line</b> <small>(33 01 30 89-0008)</small>                                     |  |           |
| 33 01 30 89-0022 | LF Cold Mix For Temporary Pipe .....  |  | 3.21      |
|                  | Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe. |  |           |
| 33 01 30 89-0023 | <b>Drill Meter Cover For Temporary Water Line</b> <small>(33 01 30 89-0008)</small>                                     |  |           |
| 33 01 30 89-0024 | EA Drill Meter Cover For Temporary Bypass Pipe .....  |  | 16.55     |
| 33 01 30 89-0025 | <b>Temporary By-Pass Plug</b> <small>(33 01 30 89)</small>  |  |           |
| 33 01 30 89-0026 | EA 8" To 16" Temporary By-Pass Plug .....   |  | 939.00    |
| 33 01 30 89-0027 | EA 12" To 24" Temporary By-Pass Plug .....  |  | 1,464.06  |
| 33 01 30 89-0028 | EA 15" To 30" Temporary By-Pass Plug .....  |  | 2,347.42  |
| 33 01 30 89-0029 | EA 20" To 40" Temporary By-Pass Plug .....  |  | 2,886.93  |
| 33 01 30 89-0030 | EA 24" To 28" Temporary By-Pass Plug .....  |  | 3,835.06  |

### 33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)

#### 33 01 34 13 Septic Tank Solids Removal (33 01 34)

##### 33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)

|                  |  |  |      |
|------------------|--|--|------|
| 33 01 34 13-0002 | GAL Pump Out Septic Tank And Dispose ..... |  | 0.70 |
|------------------|--|--|------|

### 33 01 70 Operation and Maintenance of Electrical Utilities (33 01)

#### 33 01 70 51 Electrical Utility Visual Inspection (33 01 70)

##### 33 01 70 51-0001 Video Camera Inspection Of Gas Piping and Electrical Duct (33 01 70 51)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>33 01 70 51-0002 Video Camera Set-up</b> <small>(33 01 70 51-0001)</small>   |                           |                         |
| 33 01 70 51-0003 EA Up To 12" Diameter, Initial Set Up For Video Inspection, Gas Pipe Or Electrical Duct.....                           | 289.52                    |                         |
| 33 01 70 51-0004 EA >12" To 48" Diameter, Initial Set Up For Video Inspection, Gas Pipe.....  | 325.71                    |                         |
| 33 01 70 51-0005 EA Up To 12" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe Or Electrical Duct.....                           | 72.38                     |                         |
| 33 01 70 51-0006 EA >12" To 48" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe.....  | 108.57                    |                         |
| <b>33 01 70 51-0007 Video Camera Inspection Of Gas Pipe Or Electrical Duct</b> <small>(33 01 70 51-0001)</small>                        |                           |                         |
| 33 01 70 51-0008 LF Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct .....   | 1.12                      |                         |
| <i>For &gt;1,000 To 5,000, Deduct</i>   | -0.06                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -0.11                     |                         |
| 33 01 70 51-0009 LF >12" To 48" Diameter, Video Inspection, Gas Pipe .....  | 1.73                      |                         |
| <i>For &gt;1,000 To 5,000, Deduct</i>   | -0.09                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -0.17                     |                         |
| <b>33 01 70 72 Cured-in-Place Conduit Lining</b> <small>(33 01 70)</small>  |                           |                         |
| <b>33 01 70 72-0001 Lining Conduit With Cured In-Place (CIP) Liner</b> <small>(33 01 70 72)</small>                                     |                           |                         |
| <small>Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.</small> |                           |                         |
| <b>33 01 70 72-0002 2mm Thick Cured In-Place Conduit Lining</b> <small>(33 01 70 72-0001)</small>                                       |                           |                         |
| 33 01 70 72-0003 LF 1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 7.66                      |                         |
| <i>For Up To &gt;10, Add</i>  | 15.08                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 12.04                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 7.38                      |                         |
| <i>For &gt;50 To 100, Add</i>   | 3.69                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.50                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.80                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -1.50                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -2.43                     |                         |
| 33 01 70 72-0004 LF 2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 9.33                      |                         |
| <i>For Up To &gt;10, Add</i>  | 17.32                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 13.72                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 8.44                      |                         |
| <i>For &gt;50 To 100, Add</i>   | 4.22                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.59                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -0.95                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -1.78                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -2.88                     |                         |
| 33 01 70 72-0005 LF 2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 11.70                     |                         |
| <i>For Up To &gt;10, Add</i>  | 21.65                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 17.15                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 10.56                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 5.28                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.74                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -1.19                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -2.23                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -3.60                     |                         |
| 33 01 70 72-0006 LF 3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 13.79                     |                         |
| <i>For Up To &gt;10, Add</i>  | 25.15                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 19.87                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 12.25                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 6.12                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.87                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -1.40                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -2.60                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -4.22                     |                         |
| 33 01 70 72-0007 LF 3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 15.47                     |                         |
| <i>For Up To &gt;10, Add</i>  | 27.41                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 21.58                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 13.33                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 6.66                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -0.97                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -1.55                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -2.88                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -4.67                     |                         |
| 33 01 70 72-0008 LF 4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 17.42                     |                         |
| <i>For Up To &gt;10, Add</i>  | 30.49                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 23.95                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 14.81                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 7.40                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.09                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -1.74                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -3.22                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -5.23                     |                         |
| 33 01 70 72-0009 LF 5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....  | 20.49                     |                         |
| <i>For Up To &gt;10, Add</i>  | 34.15                     |                         |
| <i>For &gt;10 To 25, Add</i>  | 26.63                     |                         |
| <i>For &gt;25 To 50, Add</i>  | 16.53                     |                         |
| <i>For &gt;50 To 100, Add</i>   | 8.26                      |                         |
| <i>For &gt;500 To 1,000, Deduct</i>   | -1.26                     |                         |
| <i>For &gt;1,000 To 2,000, Deduct</i>   | -2.01                     |                         |
| <i>For &gt;2,000 To 5,000, Deduct</i>   | -3.70                     |                         |
| <i>For &gt;5,000, Deduct</i>  | -6.01                     |                         |



**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 70 Operation and Maintenance of Electrical Utilities**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 01 70 72-0010 LF 6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining .....                   | 23.55                     |                         |
| For Up To >10, Add  | 37.78                     |                         |
| For >10 To 25, Add  | 29.29                     |                         |
| For >25 To 50, Add  | 18.23                     |                         |
| For >50 To 100, Add   | 9.12                      |                         |
| For >500 To 1,000, Deduct   | -1.44                     |                         |
| For >1,000 To 2,000, Deduct   | -2.29                     |                         |
| For >2,000 To 5,000, Deduct   | -4.18                     |                         |
| For >5,000, Deduct  | -6.79                     |                         |
| <b>33 01 70 72-0011 3mm Thick Cured In-Place Conduit Lining <small>(33 01 70 72-0001)</small> .....</b> | <b>9.38</b>               |                         |
| 33 01 70 72-0012 LF 1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....               | 9.38                      |                         |
| For Up To >10, Add  | 16.64                     |                         |
| For >10 To 25, Add  | 13.10                     |                         |
| For >25 To 50, Add  | 8.09                      |                         |
| For >50 To 100, Add   | 4.05                      |                         |
| For >500 To 1,000, Deduct   | -0.59                     |                         |
| For >1,000 To 2,000, Deduct   | -0.94                     |                         |
| For >2,000 To 5,000, Deduct   | -1.75                     |                         |
| For >5,000, Deduct  | -2.83                     |                         |
| 33 01 70 72-0013 LF 2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....                   | 12.17                     |                         |
| For Up To >10, Add  | 20.84                     |                         |
| For >10 To 25, Add  | 16.32                     |                         |
| For >25 To 50, Add  | 10.10                     |                         |
| For >50 To 100, Add   | 5.05                      |                         |
| For >500 To 1,000, Deduct   | -0.76                     |                         |
| For >1,000 To 2,000, Deduct   | -1.21                     |                         |
| For >2,000 To 5,000, Deduct   | -2.23                     |                         |
| For >5,000, Deduct  | -3.61                     |                         |
| 33 01 70 72-0014 LF 2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....               | 14.96                     |                         |
| For Up To >10, Add  | 25.06                     |                         |
| For >10 To 25, Add  | 19.56                     |                         |
| For >25 To 50, Add  | 12.13                     |                         |
| For >50 To 100, Add   | 6.07                      |                         |
| For >500 To 1,000, Deduct   | -0.92                     |                         |
| For >1,000 To 2,000, Deduct   | -1.47                     |                         |
| For >2,000 To 5,000, Deduct   | -2.71                     |                         |
| For >5,000, Deduct  | -4.40                     |                         |
| 33 01 70 72-0015 LF 3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....                   | 17.47                     |                         |
| For Up To >10, Add  | 28.41                     |                         |
| For >10 To 25, Add  | 22.08                     |                         |
| For >25 To 50, Add  | 13.73                     |                         |
| For >50 To 100, Add   | 6.86                      |                         |
| For >500 To 1,000, Deduct   | -1.07                     |                         |
| For >1,000 To 2,000, Deduct   | -1.70                     |                         |
| For >2,000 To 5,000, Deduct   | -3.12                     |                         |
| For >5,000, Deduct  | -5.07                     |                         |
| 33 01 70 72-0016 LF 3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....               | 19.83                     |                         |
| For Up To >10, Add  | 31.34                     |                         |
| For >10 To 25, Add  | 24.24                     |                         |
| For >25 To 50, Add  | 15.11                     |                         |
| For >50 To 100, Add   | 7.55                      |                         |
| For >500 To 1,000, Deduct   | -1.21                     |                         |
| For >1,000 To 2,000, Deduct   | -1.92                     |                         |
| For >2,000 To 5,000, Deduct   | -3.49                     |                         |
| For >5,000, Deduct  | -5.68                     |                         |
| 33 01 70 72-0017 LF 4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....                   | 22.35                     |                         |
| For Up To >10, Add  | 34.73                     |                         |
| For >10 To 25, Add  | 26.78                     |                         |
| For >25 To 50, Add  | 16.72                     |                         |
| For >50 To 100, Add   | 8.36                      |                         |
| For >500 To 1,000, Deduct   | -1.35                     |                         |
| For >1,000 To 2,000, Deduct   | -2.15                     |                         |
| For >2,000 To 5,000, Deduct   | -3.91                     |                         |
| For >5,000, Deduct  | -6.35                     |                         |
| 33 01 70 72-0018 LF 5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....                   | 27.22                     |                         |
| For Up To >10, Add  | 41.01                     |                         |
| For >10 To 25, Add  | 31.47                     |                         |
| For >25 To 50, Add  | 19.69                     |                         |
| For >50 To 100, Add   | 9.85                      |                         |
| For >500 To 1,000, Deduct   | -1.64                     |                         |
| For >1,000 To 2,000, Deduct   | -2.59                     |                         |
| For >2,000 To 5,000, Deduct   | -4.69                     |                         |
| For >5,000, Deduct  | -7.64                     |                         |
| 33 01 70 72-0019 LF 6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....                   | 31.67                     |                         |
| For Up To >10, Add  | 46.04                     |                         |
| For >10 To 25, Add  | 35.10                     |                         |
| For >25 To 50, Add  | 22.04                     |                         |
| For >50 To 100, Add   | 11.02                     |                         |
| For >500 To 1,000, Deduct   | -1.89                     |                         |
| For >1,000 To 2,000, Deduct   | -2.98                     |                         |
| For >2,000 To 5,000, Deduct   | -5.37                     |                         |
| For >5,000, Deduct  | -8.75                     |                         |



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

### 33 05 Common Work Results for Utilities <sup>(33)</sup>

#### 33 05 07 Trenchless Installation of Utility Piping <sup>(33 05)</sup>

##### 33 05 07 13 Utility Directional Drilling <sup>(33 05 07)</sup>

##### 33 05 07 13-0001 Horizontal Augering <sup>(33 05 07 13)</sup>

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 33 05 07 24-0001 for casing pipe.

|   |    |   |          |
|---|----|---|----------|
| 33 05 07 13-0002  | LF | Up To 2" Diameter Horizontal Hand Augering .....            | 25.07    |
| 33 05 07 13-0003  | LF | 3" Diameter Horizontal Hand Augering .....                  | 30.25    |
| 33 05 07 13-0004  | LF | 4" Diameter Horizontal Hand Augering .....                  | 41.49    |
| 33 05 07 13-0005  | LF | 6" Diameter Horizontal Hand Augering .....                  | 53.60    |
| 33 05 07 13-0006  | LF | 8" Diameter Horizontal Augering .....                       | 98.29    |
| 33 05 07 13-0007  | LF | 10" Diameter Horizontal Augering .....                      | 143.39   |
| 33 05 07 13-0008  | LF | 12" Diameter Horizontal Augering .....                      | 172.29   |
| 33 05 07 13-0009  | LF | 16" Diameter Horizontal Augering .....                      | 205.83   |
| 33 05 07 13-0010  | LF | 20" Diameter Horizontal Augering .....                      | 356.16   |
| 33 05 07 13-0011  | LF | 24" Diameter Horizontal Augering .....                      | 448.42   |
| 33 05 07 13-0012  | LF | 30" Diameter Horizontal Augering .....                      | 553.11   |
| 33 05 07 13-0013  | LF | 36" Diameter Horizontal Augering .....                      | 631.94   |
| 33 05 07 13-0014  | LF | 42" Diameter Horizontal Augering .....                      | 827.60   |
| 33 05 07 13-0015  | LF | 48" Diameter Horizontal Augering .....                      | 891.75   |
| 33 05 07 13-0016  | LF | 54" Diameter Horizontal Augering .....                      | 969.82   |
| 33 05 07 13-0017  | LF | 60" Diameter Horizontal Augering .....                      | 1,016.75 |
| 33 05 07 13-0018  | EA | 8" To 20" Horizontal Augering Minimum Set-up Charge .....   | 4,162.83 |
| <p>Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</p> |    |   |          |
| 33 05 07 13-0019  | EA | >20" To 36" Horizontal Augering Minimum Set-up Charge ..... | 5,686.11 |
| <p>Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</p> |    |   |          |
| 33 05 07 13-0020  | EA | >36" Horizontal Augering Minimum Set-up Charge .....        | 8,448.54 |
| <p>Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</p> |    |   |          |

##### 33 05 07 13-0021 Horizontal Directional Boring <sup>(33 05 07 13)</sup>

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 33 05 07 24-0001 for casing pipe.

|   |    |   |          |
|---|----|---|----------|
| 33 05 07 13-0022  | LF | Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground ..... | 13.61    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 9.53     |
| 33 05 07 13-0023  | LF | 2" Diameter Directional Boring For Horizontal Pipe, Underground .....           | 20.43    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 14.30    |
| 33 05 07 13-0024  | LF | 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground .....       | 28.37    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 19.86    |
| 33 05 07 13-0025  | LF | 3" Diameter Directional Boring For Horizontal Pipe, Underground .....           | 35.17    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 24.62    |
| 33 05 07 13-0026  | LF | 4" Diameter Directional Boring For Horizontal Pipe, Underground .....           | 41.99    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 29.39    |
| 33 05 07 13-0027  | LF | 5" Diameter Directional Boring For Horizontal Pipe, Underground .....           | 48.79    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 34.15    |
| 33 05 07 13-0028  | LF | 6" Diameter Directional Boring For Horizontal Pipe, Underground .....           | 56.73    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 39.71    |
| 33 05 07 13-0029  | LF | 8" Diameter Directional Boring For Horizontal Pipe, Underground .....           | 69.38    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 48.57    |
| 33 05 07 13-0030  | LF | 10" Diameter Directional Boring For Horizontal Pipe, Underground .....          | 75.17    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 52.62    |
| 33 05 07 13-0031  | LF | 12" Diameter Directional Boring For Horizontal Pipe, Underground .....          | 80.95    |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 56.67    |
| 33 05 07 13-0032  | LF | 18" Diameter Directional Boring For Horizontal Pipe, Underground .....          | 167.67   |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 117.37   |
| 33 05 07 13-0033  | LF | 24" Diameter Directional Boring For Horizontal Pipe, Underground .....          | 264.92   |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 185.44   |
| 33 05 07 13-0034  | LF | 30" Diameter Directional Boring For Horizontal Pipe, Underground .....          | 403.84   |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 282.69   |
| 33 05 07 13-0035  | LF | 36" Diameter Directional Boring For Horizontal Pipe, Underground .....          | 646.15   |
| <i>For Horizontal Boring Through Rock, Add</i>  |    |   | 452.31   |
| 33 05 07 13-0036  | EA | Up To 6" Horizontal Directional Boring Minimum Set-up Charge .....              | 3,630.90 |
| <p>Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</p> |    |   |          |
| 33 05 07 13-0037  | EA | >6" To 18" Horizontal Directional Boring Minimum Set-up Charge .....            | 4,162.83 |
| <p>Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</p> |    |   |          |
| 33 05 07 13-0038  | EA | >18" To 36" Horizontal Directional Boring Minimum Set-up Charge .....           | 5,686.11 |
| <p>Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</p> |    |   |          |

##### 33 05 07 23 Utility Boring and Jacking <sup>(33 05 07)</sup>

##### 33 05 07 23-0001 Horizontal Jacking <sup>(33 05 07 23)</sup>

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

**33 Utilities****33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>   | 91.10<br>31.76            |                         |
| 33 05 07 23-0003 LF 3" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>   | 108.80<br>38.33           |                         |
| 33 05 07 23-0004 LF 4" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>   | 145.77<br>52.57           |                         |
| 33 05 07 23-0005 LF 6" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>   | 188.45<br>67.90           |                         |
| 33 05 07 23-0006 LF 8" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>   | 253.52<br>93.08           |                         |
| 33 05 07 23-0007 LF 10" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 372.75<br>135.80          |                         |
| 33 05 07 23-0008 LF 12" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 449.28<br>163.18          |                         |
| 33 05 07 23-0009 LF 16" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 536.23<br>194.95          |                         |
| 33 05 07 23-0010 LF 20" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 778.58<br>338.41          |                         |
| 33 05 07 23-0011 LF 24" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 1,581.79<br>379.79        |                         |
| 33 05 07 23-0012 LF 30" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 1,792.31<br>468.95        |                         |
| 33 05 07 23-0013 LF 36" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 2,013.10<br>536.21        |                         |
| 33 05 07 23-0014 LF 42" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 2,157.43<br>579.04        |                         |
| 33 05 07 23-0015 LF 48" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 2,346.21<br>623.90        |                         |
| 33 05 07 23-0016 LF 54" Diameter Horizontal Jacking.....<br><i>For Horizontal Jacking Through Rock, Add</i>  | 2,486.91<br>679.01        |                         |
| 33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge.....<br>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.    | 3,630.90                  |                         |
| 33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge.....<br>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.  | 4,162.83                  |                         |
| 33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge.....<br>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section. | 5,686.11                  |                         |
| 33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge.....<br>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.        | 8,448.54                  |                         |

**33 05 07 24 Casing Piping for Utility Jacking (33 05 07)****33 05 07 24-0001****Casing Pipe (33 05 07 24)**

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

**33 05 07 24-0002****Steel Pipe (33 05 07 24-0001)**

|  |       |  |
|--|-------|--|
| 33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding. | 38.17 |  |
| 33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 40.32 |  |
| 33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding. | 43.76 |  |
| 33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 47.27 |  |
| 33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 60.85 |  |
| 33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 69.33 |  |
| 33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 77.80 |  |

**33 05 07 24-0010****Polyethylene Pipe (33 05 07 24-0001)**

|   |       |  |
|---|-------|--|
| 33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.   | 9.42  |  |
| 33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 10.23 |  |
| 33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding. | 11.05 |  |
| 33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding. | 11.84 |  |
| 33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 12.66 |  |
| 33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding. | 13.64 |  |
| 33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 14.67 |  |
| 33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine.....<br>Note: Includes pipe welding.     | 18.34 |  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine .....<br>Note: Includes pipe welding.  | 20.58                     |                         |
| 33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine .....<br>Note: Includes pipe welding.  | 22.84                     |                         |
| 33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine .....<br>Note: Includes pipe welding.  | 30.74                     |                         |
| 33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine .....<br>Note: Includes pipe welding.   | 43.19                     |                         |
| <br>  |                           |                         |
| <b>33 05 09 Piping Specials for Utilities</b> <small>(33 05)</small>  |                           |                         |
| <b>33 05 09 23 Adapters for Utility Piping</b> <small>(33 05 09)</small>  |                           |                         |
| See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.  |                           |                         |
| <b>33 05 09 33 Thrust Restraint for Utility Piping</b> <small>(33 05 09)</small>  |                           |                         |
| See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses. |                           |                         |
| <br>  |                           |                         |
| <b>33 05 16 Cast-Iron Utility Pipe</b> <small>(33 05)</small>   |                           |                         |
| See CSI section 22 13 16 00-0019 for cast iron utility piping.  |                           |                         |
| <b>33 05 17 Copper Utility Pipe and Tubing</b> <small>(33 05)</small>   |                           |                         |
| See CSI section 33 14 13 39-0000 for copper utility piping.   |                           |                         |
| <b>33 05 19 Ductile-Iron Utility Pipe</b> <small>(33 05)</small>  |                           |                         |
| See CSI section 33 14 13 13-0000 for ductile iron utility piping.   |                           |                         |
| <b>33 05 24 Steel Utility Pipe</b> <small>(33 05)</small>   |                           |                         |
| <b>33 05 24 23 Steel Pipe for Water Service</b> <small>(33 05 24)</small>   |                           |                         |
| See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.  |                           |                         |
| <b>33 05 27 Corrugated Metal Utility Pipe</b> <small>(33 05)</small>  |                           |                         |
| <b>33 05 27 13 Corrugated Metal Culvert Pipe</b> <small>(33 05 27)</small>  |                           |                         |
| See CSI section 33 42 11 00-0455 for corrugated metal culvert pipe.   |                           |                         |
| <b>33 05 27 23 Corrugated Metal Slotted Pipe</b> <small>(33 05 27)</small>  |                           |                         |
| See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.   |                           |                         |
| <b>33 05 27 33 Corrugated Metal Culvert Arch Pipe</b> <small>(33 05 27)</small>   |                           |                         |
| See CSI section 33 42 11 00-0799 for corrugated metal culvert arch pipe.  |                           |                         |
| <b>33 05 31 Thermoplastic Utility Pipe</b> <small>(33 05)</small>   |                           |                         |
| <b>33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe</b> <small>(33 05 31)</small>  |                           |                         |
| See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.   |                           |                         |
| <b>33 05 31 13 Polyvinyl Chloride Pressure Pipe</b> <small>(33 05 31)</small>   |                           |                         |
| See CSI section 33 14 13 23-0256 for polyvinyl chloride pressure pipe.  |                           |                         |
| <b>33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905)</b> <small>(33 05 31)</small>   |                           |                         |
| See CSI section 33 14 13 23-0001 for AWWA C900 and 905 polyvinyl chloride pressure pipe.  |                           |                         |
| <b>33 05 33 Polyethylene Utility Pipe</b> <small>(33 05)</small>  |                           |                         |
| <b>33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe</b> <small>(33 05 33)</small>   |                           |                         |
| See CSI section 33 42 11 00-0227 for corrugated-wall smooth interior HDPE gravity pipe.   |                           |                         |
| <b>33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906)</b> <small>(33 05 33)</small>  |                           |                         |
| See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.  |                           |                         |
| <b>33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe</b> <small>(33 05 33)</small>  |                           |                         |
| See CSI section 33 42 11 00-0249 for corrugated perforated HDPE drainage pipe.  |                           |                         |
| <b>33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe</b> <small>(33 05 33)</small>  |                           |                         |
| See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.  |                           |                         |
| <b>33 05 33 53 HDPE Gas Utility Pipe</b> <small>(33 05 33)</small>  |                           |                         |
| See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.  |                           |                         |
| <b>33 05 33 56 Medium-Density Polyethylene Gas Utility Pipe</b> <small>(33 05 33)</small>   |                           |                         |
| See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.  |                           |                         |
| <b>33 05 33 63 HDPE Communication Duct</b> <small>(33 05 33)</small>  |                           |                         |
| 33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine .....<br>Note: Excludes boring.  |                           |                         |
| 33 05 33 63-0002 LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine .....<br>For Up To 250, Add<br>For >250 To 500, Add             | 3.72<br>0.12<br>0.08      |                         |
| 33 05 33 63-0003 LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine .....<br>For Up To 250, Add<br>For >250 To 500, Add         | 4.16<br>0.15<br>0.10      |                         |

**33 Utilities****33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 05 33 63-0004 LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine..... | 4.53                      |                         |
| For Up To 250, Add  | 0.17                      |                         |
| For >250 To 500, Add  | 0.11                      |                         |
| 33 05 33 63-0005 LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 4.97                      |                         |
| For Up To 250, Add  | 0.20                      |                         |
| For >250 To 500, Add  | 0.13                      |                         |
| 33 05 33 63-0006 LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 6.73                      |                         |
| For Up To 250, Add  | 0.42                      |                         |
| For >250 To 500, Add  | 0.28                      |                         |
| 33 05 33 63-0007 LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 8.54                      |                         |
| For Up To 250, Add  | 0.65                      |                         |
| For >250 To 500, Add  | 0.43                      |                         |
| 33 05 33 63-0008 LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 3.80                      |                         |
| For Up To 250, Add  | 0.13                      |                         |
| For >250 To 500, Add  | 0.09                      |                         |
| 33 05 33 63-0009 LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine..... | 4.32                      |                         |
| For Up To 250, Add  | 0.17                      |                         |
| For >250 To 500, Add  | 0.12                      |                         |
| 33 05 33 63-0010 LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine..... | 4.66                      |                         |
| For Up To 250, Add  | 0.19                      |                         |
| For >250 To 500, Add  | 0.13                      |                         |
| 33 05 33 63-0011 LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 5.30                      |                         |
| For Up To 250, Add  | 0.25                      |                         |
| For >250 To 500, Add  | 0.17                      |                         |
| 33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 7.45                      |                         |
| For Up To 250, Add  | 0.53                      |                         |
| For >250 To 500, Add  | 0.35                      |                         |
| 33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring<br>Machine.....     | 9.45                      |                         |
| For Up To 250, Add  | 0.78                      |                         |
| For >250 To 500, Add  | 0.52                      |                         |

**33 05 39 Concrete Pipe** (33 05)**33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)** (33 05)

<sup>39)</sup>  
See CSI section 33 42 11 00-0080 for prestressed concrete pressure pipe.

**33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts** (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

**33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts** (33 05 39)

See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.

**33 05 41 Vitrified Clay Utility Pipe** (33 05)

See CSI section 33 42 11 00-0353 for vitrified clay piping.

**33 05 61 Concrete Manholes** (33 05)**33 05 61 00-0001 Manholes** (33 05 61)**33 05 61 00-0002 Precast Concrete Manholes** (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.

See CSI section 33 05 84 00-0002 for top slabs.

**33 05 61 00-0003 3' Diameter, Precast Concrete Manholes** (33 05 61 00-0002)

|   |          |        |
|---|----------|--------|
| 33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....               | 1,673.45 | 286.93 |
| For Bitumastic Coating, Add   | 79.07    |        |
| For Epoxy Coating, Add  | 151.10   |        |
| 33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....               | 2,277.61 | 412.13 |
| For Bitumastic Coating, Add   | 118.61   |        |
| For Epoxy Coating, Add  | 226.65   |        |
| 33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....               | 3,059.12 | 626.01 |
| For Bitumastic Coating, Add   | 158.14   |        |
| For Epoxy Coating, Add  | 302.20   |        |
| 33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole.....             | 322.94   | 73.03  |
| Note: For depths greater than 8'.   |          |        |
| For Bitumastic Coating, Add   | 19.77    |        |
| For Epoxy Coating, Add  | 37.78    |        |
| 33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....       | 348.89   | 73.03  |
| 33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole.....          | 564.81   | 73.03  |
| 33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole..... | 448.86   | 73.03  |
| 33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole.....    | 646.35   | 73.03  |

**33 05 61 00-0012 4' Diameter, Precast Concrete Manholes** (33 05 61 00-0002)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole .....                         | 2,483.21                  | 328.65                  |
| <i>For Bitumastic Coating, Add</i>   | 79.07                     |                         |
| <i>For Epoxy Coating, Add</i>  | 151.10                    |                         |
| 33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole .....                         | 3,311.81                  | 448.64                  |
| <i>For Bitumastic Coating, Add</i>   | 118.61                    |                         |
| <i>For Epoxy Coating, Add</i>  | 226.65                    |                         |
| 33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole .....                         | 4,349.93                  | 678.18                  |
| <i>For Bitumastic Coating, Add</i>   | 158.14                    |                         |
| <i>For Epoxy Coating, Add</i>  | 302.20                    |                         |
| 33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole .....                       | 462.54                    | 86.08                   |
| Note: For depths greater than 8'.  |                           |                         |
| <i>For Bitumastic Coating, Add</i>   | 19.77                     |                         |
| <i>For Epoxy Coating, Add</i>  | 37.78                     |                         |
| 33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole .....                 | 505.53                    | 86.08                   |
| 33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole .....                    | 863.19                    | 86.08                   |
| 33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole .....           | 671.12                    | 86.08                   |
| 33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole .....              | 998.29                    | 86.08                   |
| <br>   |                           |                         |
| <b>33 05 61 00-0021 5' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small> |                           |                         |
| 33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole .....                         | 4,732.36                  | 365.18                  |
| <i>For Bitumastic Coating, Add</i>   | 101.88                    |                         |
| <i>For Epoxy Coating, Add</i>  | 243.59                    |                         |
| 33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole .....                         | 6,299.19                  | 500.81                  |
| <i>For Bitumastic Coating, Add</i>   | 152.82                    |                         |
| <i>For Epoxy Coating, Add</i>  | 365.39                    |                         |
| 33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole .....                         | 8,098.26                  | 751.21                  |
| <i>For Bitumastic Coating, Add</i>   | 203.76                    |                         |
| <i>For Epoxy Coating, Add</i>  | 487.18                    |                         |
| 33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole .....                       | 837.23                    | 93.91                   |
| Note: For depths greater than 8'.  |                           |                         |
| <i>For Bitumastic Coating, Add</i>   | 25.47                     |                         |
| <i>For Epoxy Coating, Add</i>  | 60.90                     |                         |
| <br>   |                           |                         |
| <b>33 05 61 00-0026 6' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small> |                           |                         |
| 33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole .....                         | 6,372.44                  | 406.91                  |
| <i>For Bitumastic Coating, Add</i>   | 116.64                    |                         |
| <i>For Epoxy Coating, Add</i>  | 285.18                    |                         |
| 33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole .....                         | 8,292.86                  | 552.98                  |
| <i>For Bitumastic Coating, Add</i>   | 174.96                    |                         |
| <i>For Epoxy Coating, Add</i>  | 427.77                    |                         |
| 33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole .....                         | 10,473.28                 | 834.68                  |
| <i>For Bitumastic Coating, Add</i>   | 233.28                    |                         |
| <i>For Epoxy Coating, Add</i>  | 570.36                    |                         |
| 33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole .....                       | 1,019.57                  | 104.34                  |
| Note: For depths greater than 8'.  |                           |                         |
| <i>For Bitumastic Coating, Add</i>   | 29.16                     |                         |
| <i>For Epoxy Coating, Add</i>  | 71.30                     |                         |
| <br>   |                           |                         |
| <b>33 05 61 00-0031 7' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small> |                           |                         |
| 33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole .....                         | 10,098.15                 | 448.64                  |
| <i>For Bitumastic Coating, Add</i>   | 248.03                    |                         |
| <i>For Epoxy Coating, Add</i>  | 498.33                    |                         |
| 33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole .....                         | 13,049.84                 | 611.93                  |
| <i>For Bitumastic Coating, Add</i>   | 372.05                    |                         |
| <i>For Epoxy Coating, Add</i>  | 747.50                    |                         |
| 33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole .....                         | 16,287.41                 | 918.15                  |
| <i>For Bitumastic Coating, Add</i>   | 496.07                    |                         |
| <i>For Epoxy Coating, Add</i>  | 996.66                    |                         |
| 33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole .....                       | 1,542.10                  | 114.77                  |
| Note: For depths greater than 8'.  |                           |                         |
| <i>For Bitumastic Coating, Add</i>   | 62.01                     |                         |
| <i>For Epoxy Coating, Add</i>  | 124.58                    |                         |
| <br>   |                           |                         |
| <b>33 05 61 00-0036 8' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small> |                           |                         |
| 33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole .....                         | 14,649.87                 | 516.46                  |
| <i>For Bitumastic Coating, Add</i>   | 293.23                    |                         |
| <i>For Epoxy Coating, Add</i>  | 607.42                    |                         |
| 33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole .....                         | 18,986.31                 | 704.26                  |
| <i>For Bitumastic Coating, Add</i>   | 439.85                    |                         |
| <i>For Epoxy Coating, Add</i>  | 911.14                    |                         |
| 33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole .....                         | 23,651.40                 | 1,056.40                |
| <i>For Bitumastic Coating, Add</i>   | 586.46                    |                         |
| <i>For Epoxy Coating, Add</i>  | 1,214.85                  |                         |
| 33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole .....                       | 2,241.26                  | 130.42                  |
| Note: For depths greater than 8'.  |                           |                         |
| <i>For Bitumastic Coating, Add</i>   | 73.31                     |                         |
| <i>For Epoxy Coating, Add</i>  | 151.86                    |                         |

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**33 05 63 Concrete Vaults and Chambers** (33 05)

|                  |   |           |
|------------------|---|-----------|
| 33 05 63 00-0001 | Underground Utility Vaults And Structures <small>(33 05 63)</small><br>See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers. |           |
| 33 05 63 00-0002 | Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small><br>Note: Sizes given are for inside dimensions.                                  |           |
| 33 05 63 00-0003 | 6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>  |           |
| 33 05 63 00-0004 | EA 4' x 4' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 3,391.72  |
| 33 05 63 00-0005 | EA 4' x 6' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 4,421.12  |
| 33 05 63 00-0006 | EA 5' x 10' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 7,293.80  |
| 33 05 63 00-0007 | EA 5' x 12' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 8,421.90  |
| 33 05 63 00-0008 | EA 6' x 6' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 5,649.97  |
| 33 05 63 00-0009 | EA 6' x 8' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 6,877.76  |
| 33 05 63 00-0010 | EA 6' x 10' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 8,106.61  |
| 33 05 63 00-0011 | EA 6' x 12' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 11,712.48 |
| 33 05 63 00-0012 | EA 6' x 14' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 11,712.48 |
| 33 05 63 00-0013 | EA 6' x 16' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 14,747.88 |
| 33 05 63 00-0014 | EA 8' x 8' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 8,306.07  |
| 33 05 63 00-0015 | EA 8' x 10' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 9,733.32  |
| 33 05 63 00-0016 | EA 8' x 12' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 13,912.96 |
| 33 05 63 00-0017 | EA 8' x 14' x 6' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 15,658.96 |
| 33 05 63 00-0018 | 7' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>  |           |
| 33 05 63 00-0019 | EA 4' x 4' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 4,673.46  |
| 33 05 63 00-0020 | EA 4' x 6' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 6,068.40  |
| 33 05 63 00-0021 | EA 4' x 8' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 5,962.77  |
| 33 05 63 00-0022 | EA 5' x 10' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 7,934.14  |
| 33 05 63 00-0023 | EA 5' x 12' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 9,148.28  |
| 33 05 63 00-0024 | EA 6' x 6' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 7,712.87  |
| 33 05 63 00-0025 | EA 6' x 8' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 7,476.12  |
| 33 05 63 00-0026 | EA 6' x 10' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 11,001.88 |
| 33 05 63 00-0027 | EA 6' x 12' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 12,736.97 |
| 33 05 63 00-0028 | EA 6' x 16' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 16,000.14 |
| 33 05 63 00-0029 | EA 8' x 8' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 8,989.40  |
| 33 05 63 00-0030 | EA 8' x 10' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 10,501.71 |
| 33 05 63 00-0031 | EA 8' x 12' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 15,051.94 |
| 33 05 63 00-0032 | EA 8' x 14' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.   | 16,910.17 |
| 33 05 63 00-0033 | EA 10' x 10' x 7' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.  | 15,278.95 |
| 33 05 63 00-0034 | 8' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>  |           |
| 33 05 63 00-0035 | EA 4' x 4' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 4,075.05  |
| 33 05 63 00-0036 | EA 4' x 6' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 5,275.58  |
| 33 05 63 00-0037 | EA 5' x 10' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 8,574.44  |
| 33 05 63 00-0038 | EA 5' x 12' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.  | 9,873.62  |
| 33 05 63 00-0039 | EA 6' x 6' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.   | 6,674.47  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                           | 8,073.38                  |                         |
| 33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                          | 9,472.31                  |                         |
| 33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.                                   | 13,761.44                 |                         |
| 33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.                                   | 17,252.48                 |                         |
| 33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                           | 9,671.72                  |                         |
| 33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                          | 11,270.06                 |                         |
| 33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.                                   | 16,189.80                 |                         |
| 33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.                                   | 18,162.51                 |                         |
| 33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.                                  | 16,417.59                 |                         |
| <b>33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)</b>   |                           |                         |
| 33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                          | 7,186.74                  |                         |
| 33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                          | 8,670.65                  |                         |
| 33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault.....<br>Note: 8" thick walls and top.                                 | 17,555.39                 |                         |
| <b>33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)</b>   |                           |                         |
| 33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                          | 7,698.99                  |                         |
| 33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault.....<br>Note: 6" thick walls and 8" thick top.                          | 9,269.00                  |                         |
| <b>33 05 63 00-0056 Meter Pit (33 05 63 00-0001)</b>   |                           |                         |
| <b>33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)</b>  |                           |                         |
| 33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....  | 3,349.64                  |                         |
| 33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....  | 4,548.14                  |                         |
| 33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....  | 5,719.19                  |                         |
| 33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....   | 7,091.12                  |                         |
| 33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....   | 9,818.46                  |                         |
| 33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....  | 5,085.10                  |                         |
| 33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....  | 7,091.12                  |                         |
| 33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....  | 9,144.96                  |                         |
| 33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....   | 11,408.31                 |                         |
| 33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....   | 16,261.95                 |                         |
| <b>33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)</b>   |                           |                         |
| <b>33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)</b>  |                           |                         |
| <b>33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069)</b><br>Note: Excludes cover See CSI section 33 05 63 00-0290 for covers. |                           |                         |
| <b>33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)</b>  |                           |                         |
| <b>33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)</b>   |                           |                         |
| 33 05 63 00-0073 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 542.52                    | 22.79                   |
| 33 05 63 00-0074 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 424.47                    | 50.58                   |
| 33 05 63 00-0075 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 649.99                    | 75.88                   |
| 33 05 63 00-0076 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 773.06                    | 75.88                   |
| 33 05 63 00-0077 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 732.39                    | 75.88                   |
| 33 05 63 00-0078 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 909.88                    | 75.88                   |
| 33 05 63 00-0079 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 883.09                    | 75.88                   |
| 33 05 63 00-0080 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 1,242.47                  | 75.88                   |
| 33 05 63 00-0081 EA 27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 1,774.11                  | 101.17                  |
| 33 05 63 00-0082 EA 27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 2,547.53                  | 101.17                  |
| 33 05 63 00-0083 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....                 | 1,543.48                  | 139.10                  |



**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 63 00-0084 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 1,785.68                  | 139.10                  |
| 33 05 63 00-0085 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 3,045.67                  | 139.10                  |
| 33 05 63 00-0086 EA 39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 1,643.69                  | 151.75                  |
| 33 05 63 00-0087 EA 39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 2,437.06                  | 151.75                  |
| 33 05 63 00-0088 EA 39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 3,085.85                  | 151.75                  |
| 33 05 63 00-0089 EA 39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 4,620.36                  | 151.75                  |
| 33 05 63 00-0090 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 2,373.13                  | 244.70                  |
| 33 05 63 00-0091 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....           | 3,567.21                  | 244.70                  |
| <b>33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0071)</small>            |                           |                         |
| 33 05 63 00-0093 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 703.28                    | 22.79                   |
| 33 05 63 00-0094 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 841.47                    | 75.88                   |
| 33 05 63 00-0095 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 1,039.55                  | 75.88                   |
| 33 05 63 00-0096 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 950.88                    | 75.88                   |
| 33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 1,102.58                  | 75.88                   |
| 33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 1,142.36                  | 75.88                   |
| 33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 1,503.97                  | 75.88                   |
| 33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 1,950.64                  | 139.10                  |
| 33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 2,192.84                  | 139.10                  |
| 33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 3,452.86                  | 139.10                  |
| 33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 2,848.93                  | 244.70                  |
| 33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure..... | 4,052.08                  | 244.70                  |
| <b>33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0070)</small>                                 |                           |                         |
| <b>33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>                    |                           |                         |
| 33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....           | 910.17                    | 22.79                   |
| 33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....          | 764.66                    | 22.79                   |
| 33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....          | 542.61                    | 75.88                   |
| 33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....          | 628.47                    | 75.88                   |
| 33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....            | 189.90                    | 22.79                   |
| 33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 311.57                    | 22.79                   |
| 33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....           | 522.76                    | 22.79                   |
| 33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....           | 548.32                    | 22.79                   |
| 33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 415.55                    | 50.58                   |
| 33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 454.75                    | 50.58                   |
| 33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....           | 306.35                    | 22.79                   |
| 33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....           | 354.23                    | 22.79                   |
| 33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 450.68                    | 50.58                   |
| 33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 516.59                    | 50.58                   |
| 33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 473.93                    | 50.58                   |
| 33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 546.61                    | 75.88                   |
| 33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 611.25                    | 75.88                   |
| 33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 659.33                    | 75.88                   |
| 33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 731.74                    | 75.88                   |
| 33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....         | 876.13                    | 75.88                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 963.72                    | 75.88                   |
| 33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 1,059.57                  | 75.88                   |
| 33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 1,119.84                  | 75.88                   |
| 33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 1,319.79                  | 101.17                  |
| 33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 1,281.10                  | 139.10                  |
| 33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 1,700.86                  | 139.10                  |
| 33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,088.46                  | 139.10                  |
| 33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,333.24                  | 139.10                  |
| 33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,576.71                  | 139.10                  |
| 33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,838.98                  | 244.70                  |
| 33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 1,980.89                  | 244.70                  |
| 33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,291.77                  | 244.70                  |
| 33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,886.25                  | 244.70                  |
| 33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,880.14                  | 244.70                  |
| 33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,102.05                  | 244.70                  |
| 33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,528.81                  | 244.70                  |
| 33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,197.83                  | 262.17                  |
| 33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,499.14                  | 262.17                  |
| 33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,883.81                  | 262.17                  |
| 33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,037.74                  | 262.17                  |
| 33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,091.24                  | 262.17                  |
| 33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,677.38                  | 262.17                  |
| 33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,539.07                  | 262.17                  |
| 33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,774.11                  | 262.17                  |
| 33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 5,393.62                  | 279.66                  |
| 33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 6,737.39                  | 279.66                  |
| 33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 8,740.01                  | 279.66                  |
| <b>33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>             |                           |                         |
| 33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....  | 765.52                    | 75.88                   |
| 33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....  | 892.89                    | 75.88                   |
| 33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....    | 342.55                    | 22.79                   |
| 33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 508.85                    | 22.79                   |
| 33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 692.67                    | 22.79                   |
| 33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 718.27                    | 22.79                   |
| 33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....   | 582.93                    | 50.58                   |
| 33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 610.22                    | 50.58                   |
| 33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 646.69                    | 50.58                   |
| 33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 472.80                    | 22.79                   |
| 33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 564.35                    | 22.79                   |
| 33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 645.80                    | 50.58                   |
| 33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 711.72                    | 50.58                   |

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 671.13                    | 50.58                   |
| 33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 764.29                    | 75.88                   |
| 33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 829.74                    | 75.88                   |
| 33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 919.10                    | 75.88                   |
| 33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 991.05                    | 75.88                   |
| 33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,135.02                  | 75.88                   |
| 33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,222.99                  | 75.88                   |
| 33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,318.42                  | 75.88                   |
| 33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,379.10                  | 75.88                   |
| 33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,677.95                  | 101.17                  |
| 33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,688.29                  | 139.10                  |
| 33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,107.56                  | 139.10                  |
| 33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,494.73                  | 139.10                  |
| 33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,739.13                  | 139.10                  |
| 33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,983.40                  | 139.10                  |
| 33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,452.19                  | 244.70                  |
| 33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,763.54                  | 244.70                  |
| 33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 3,357.56                  | 244.70                  |

**33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures** (33 05 63 00-0105)

|  |          |        |
|--|----------|--------|
| 33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....  | 694.34   | 75.88  |
| 33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....  | 825.25   | 75.88  |
| 33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....    | 245.24   | 22.79  |
| 33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 423.41   | 22.79  |
| 33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 621.57   | 22.79  |
| 33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 647.63   | 22.79  |
| 33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 536.12   | 50.58  |
| 33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 611.98   | 50.58  |
| 33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 366.69   | 22.79  |
| 33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 573.40   | 50.58  |
| 33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 667.90   | 50.58  |
| 33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 597.96   | 50.58  |
| 33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 754.26   | 75.88  |
| 33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 883.47   | 75.88  |
| 33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 926.44   | 75.88  |
| 33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,028.75 | 75.88  |
| 33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,122.87 | 75.88  |
| 33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,211.73 | 75.88  |
| 33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,370.84 | 75.88  |
| 33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,393.02 | 75.88  |
| 33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,705.70 | 101.17 |
| 33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,724.27 | 139.10 |
| 33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,187.31 | 139.10 |
| 33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,645.23 | 139.10 |
| 33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,949.39 | 139.10 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,253.55                  | 139.10                  |
| 33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,405.67                  | 244.70                  |
| 33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,547.62                  | 244.70                  |
| 33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 2,882.75                  | 244.70                  |
| 33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,476.81                  | 244.70                  |
| 33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,738.85                  | 244.70                  |
| 33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 3,820.90                  | 244.70                  |
| 33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,616.92                  | 244.70                  |
| 33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,239.51                  | 262.17                  |
| 33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,395.20                  | 262.17                  |
| 33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,836.84                  | 262.17                  |
| 33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 5,171.09                  | 262.17                  |
| 33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 4,724.30                  | 262.17                  |
| 33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 5,919.72                  | 262.17                  |
| 33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 5,096.49                  | 262.17                  |
| 33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 5,632.86                  | 262.17                  |
| 33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 6,868.98                  | 279.66                  |
| 33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 8,213.29                  | 279.66                  |
| 33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....           | 11,196.53                 | 279.66                  |
| <b>33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>             |                           |                         |
| 33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....  | 917.22                    | 75.88                   |
| 33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....  | 1,090.16                  | 75.88                   |
| 33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....    | 396.66                    | 22.79                   |
| 33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 620.31                    | 22.79                   |
| 33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 791.14                    | 22.79                   |
| 33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 817.54                    | 22.79                   |
| 33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 731.24                    | 50.58                   |
| 33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 806.65                    | 50.58                   |
| 33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....   | 583.06                    | 22.79                   |
| 33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 767.64                    | 50.58                   |
| 33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 862.14                    | 50.58                   |
| 33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 739.47                    | 50.58                   |
| 33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 972.83                    | 75.88                   |
| 33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,102.04                  | 75.88                   |
| 33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,185.71                  | 75.88                   |
| 33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,288.06                  | 75.88                   |
| 33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,382.14                  | 75.88                   |
| 33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,471.04                  | 75.88                   |
| 33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,630.19                  | 75.88                   |
| 33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 1,652.28                  | 75.88                   |
| 33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure ..... | 2,063.39                  | 101.17                  |

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 2,131.42                  | 139.10                  |
| 33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 2,594.04                  | 139.10                  |
| 33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 3,051.47                  | 139.10                  |
| 33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 3,355.86                  | 139.10                  |
| 33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 3,660.25                  | 139.10                  |
| 33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 3,019.35                  | 244.70                  |
| 33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 3,354.94                  | 244.70                  |
| 33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....       | 3,948.58                  | 244.70                  |
| <b>33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>                                   |                           |                         |
| 33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....                        | 748.69                    | 75.88                   |
| 33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....                       | 506.60                    | 50.58                   |
| 33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....                       | 579.47                    | 50.58                   |
| 33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....                       | 654.11                    | 75.88                   |
| 33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....                       | 530.47                    | 50.58                   |
| 33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....                       | 600.26                    | 50.58                   |
| <b>33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions</b> <small>(33 05 63 00-0069)</small>   |                           |                         |
| Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.   |                           |                         |
| 33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                  | 518.44                    | 75.88                   |
| 33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                  | 594.38                    | 75.88                   |
| 33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                  | 662.51                    | 101.17                  |
| 33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                 | 737.07                    | 101.17                  |
| 33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                  | 846.31                    | 139.10                  |
| 33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                 | 1,538.60                  | 244.70                  |
| 33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                  | 1,457.09                  | 244.70                  |
| 33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                 | 1,474.88                  | 244.70                  |
| 33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                 | 2,071.59                  | 262.17                  |
| 33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                 | 3,453.03                  | 279.66                  |
| 33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....                 | 4,637.15                  | 279.66                  |
| 33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....       | 916.91                    | 75.88                   |
| 33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....       | 963.30                    | 75.88                   |
| 33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....       | 1,002.41                  | 101.17                  |
| 33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....      | 1,077.78                  | 101.17                  |
| 33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....       | 1,219.10                  | 139.10                  |
| 33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....       | 1,983.92                  | 244.70                  |
| 33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension ..... | 690.12                    | 75.88                   |
| 33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension ..... | 781.63                    | 75.88                   |
| 33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension ..... | 977.59                    | 139.10                  |
| 33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension ..... | 1,984.31                  | 262.17                  |
| <b>33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers</b> <small>(33 05 63 00-0069)</small>   |                           |                         |
| <b>33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers</b> <small>(33 05 63 00-0290)</small>   |                           |                         |
| 33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                       | 208.42                    | 10.13                   |
| 33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                      | 211.34                    | 10.13                   |
| 33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                      | 194.62                    | 10.13                   |
| 33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                       | 211.92                    | 10.13                   |
| 33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                      | 214.14                    | 10.12                   |
| 33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                      | 248.19                    | 10.12                   |
| 33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                                      | 290.31                    | 10.12                   |



**Utilities 33**  
**Common Work Results for Utilities 33 05**  
**Concrete Vaults and Chambers 33 05 63**

33

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 33 05 63 00-0299 | EA  | 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 1,969.51                  | 31.46                   |
| 33 05 63 00-0300 | EA  | 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 1,718.35                  | 31.46                   |
| 33 05 63 00-0301 | EA  | 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 2,593.16                  | 31.46                   |
| 33 05 63 00-0302 | EA  | 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 2,622.99                  | 31.46                   |
| 33 05 63 00-0303 | EA  | 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 2,976.95                  | 31.46                   |
| 33 05 63 00-0304 | EA  | 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 3,247.33                  | 31.46                   |
| 33 05 63 00-0305 | EA  | 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 5,243.53                  | 31.46                   |
| 33 05 63 00-0306 | EA  | 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 176.05                    | 10.12                   |
| 33 05 63 00-0307 | EA  | 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 259.64                    | 10.12                   |
| 33 05 63 00-0308 | EA  | 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 263.52                    | 10.12                   |
| 33 05 63 00-0309 | EA  | 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 335.97                    | 10.12                   |
| 33 05 63 00-0310 | EA  | 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover .....             | 294.26                    | 10.12                   |
| 33 05 63 00-0311 | EA  | 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 400.57                    | 10.12                   |
| 33 05 63 00-0312 | EA  | 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover .....             | 310.83                    | 10.12                   |
| 33 05 63 00-0313 | EA  | 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 655.88                    | 10.12                   |
| 33 05 63 00-0314 | EA  | 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 564.04                    | 15.18                   |
| 33 05 63 00-0315 | EA  | 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 713.39                    | 15.18                   |
| 33 05 63 00-0316 | EA  | 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 922.61                    | 17.70                   |
| 33 05 63 00-0317 | EA  | 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 1,301.23                  | 24.47                   |
| 33 05 63 00-0318 | EA  | 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....                          | 1,348.68                  | 46.61                   |
| 33 05 63 00-0319 | EA  | 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 340.31                    | 10.12                   |
| 33 05 63 00-0320 | EA  | 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 492.51                    | 10.12                   |
| 33 05 63 00-0321 | EA  | 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 562.76                    | 10.12                   |
| 33 05 63 00-0322 | EA  | 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 947.09                    | 10.12                   |
| 33 05 63 00-0323 | EA  | 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 769.35                    | 15.18                   |
| 33 05 63 00-0324 | EA  | 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 1,313.67                  | 17.70                   |
| 33 05 63 00-0325 | EA  | 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 1,724.83                  | 24.47                   |
| 33 05 63 00-0326 | EA  | 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 2,329.59                  | 31.46                   |
| 33 05 63 00-0327 | EA  | 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 2,066.44                  | 31.46                   |
| 33 05 63 00-0328 | EA  | 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 2,903.24                  | 31.46                   |
| 33 05 63 00-0329 | EA  | 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 3,793.19                  | 31.46                   |
| 33 05 63 00-0330 | EA  | 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 3,630.85                  | 31.46                   |
| 33 05 63 00-0331 | EA  | 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 5,533.36                  | 31.46                   |
| 33 05 63 00-0332 | EA  | 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                            | 8,569.94                  | 31.46                   |
| 33 05 63 00-0333 | EA  | 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 453.07                    | 10.12                   |
| 33 05 63 00-0334 | EA  | 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 497.04                    | 10.12                   |
| 33 05 63 00-0335 | EA  | 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 659.88                    | 10.12                   |
| 33 05 63 00-0336 | EA  | 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 754.39                    | 10.12                   |
| 33 05 63 00-0337 | EA  | 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 1,316.39                  | 10.12                   |
| 33 05 63 00-0338 | EA  | 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 943.38                    | 15.18                   |
| 33 05 63 00-0339 | EA  | 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 1,299.19                  | 15.18                   |
| 33 05 63 00-0340 | EA  | 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 2,024.18                  | 17.70                   |
| 33 05 63 00-0341 | EA  | 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 2,314.51                  | 24.47                   |
| 33 05 63 00-0342 | EA  | 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 2,404.47                  | 46.61                   |
| 33 05 63 00-0343 | EA  | 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 2,782.64                  | 31.46                   |
| 33 05 63 00-0344 | EA  | 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 3,901.46                  | 31.46                   |
| 33 05 63 00-0345 | EA  | 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 5,475.13                  | 31.46                   |
| 33 05 63 00-0346 | EA  | 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 4,881.23                  | 31.46                   |
| 33 05 63 00-0347 | EA  | 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 8,116.93                  | 31.46                   |
| 33 05 63 00-0348 | EA  | 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....                      | 12,551.51                 | 31.46                   |
| 33 05 63 00-0349 |     | <b>Polymer Concrete Handhole Enclosure Covers With Gaskets <small>(33 05 63 00-0290)</small></b>                         |                           |                         |
| 33 05 63 00-0350 | EA  | 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 241.89                    | 10.13                   |
| 33 05 63 00-0351 | EA  | 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....               | 256.61                    | 10.13                   |
| 33 05 63 00-0352 | EA  | 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 261.41                    | 10.12                   |
| 33 05 63 00-0353 | EA  | 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 263.21                    | 10.12                   |
| 33 05 63 00-0354 | EA  | 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 306.38                    | 10.12                   |
| 33 05 63 00-0355 | EA  | 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 189.62                    | 10.12                   |
| 33 05 63 00-0356 | EA  | 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 273.55                    | 10.12                   |
| 33 05 63 00-0357 | EA  | 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 276.24                    | 10.12                   |
| 33 05 63 00-0358 | EA  | 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 350.30                    | 10.12                   |
| 33 05 63 00-0359 | EA  | 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket ..... | 264.87                    | 10.12                   |
| 33 05 63 00-0360 | EA  | 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket ..... | 327.32                    | 10.12                   |
| 33 05 63 00-0361 | EA  | 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 415.76                    | 10.12                   |
| 33 05 63 00-0362 | EA  | 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 574.23                    | 15.18                   |
| 33 05 63 00-0363 | EA  | 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 729.03                    | 15.18                   |
| 33 05 63 00-0364 | EA  | 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....              | 1,364.74                  | 46.61                   |
| 33 05 63 00-0365 | EA  | 6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                  | 155.11                    | 10.13                   |
| 33 05 63 00-0366 | EA  | 8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                  | 252.00                    | 10.13                   |
| 33 05 63 00-0367 | EA  | 8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                 | 282.21                    | 10.13                   |
| 33 05 63 00-0368 | EA  | 12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 268.80                    | 10.13                   |
| 33 05 63 00-0369 | EA  | 10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 218.48                    | 10.12                   |
| 33 05 63 00-0370 | EA  | 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 354.19                    | 10.12                   |
| 33 05 63 00-0371 | EA  | 11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 385.55                    | 10.12                   |
| 33 05 63 00-0372 | EA  | 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 507.26                    | 10.12                   |
| 33 05 63 00-0373 | EA  | 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 578.79                    | 10.12                   |
| 33 05 63 00-0374 | EA  | 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 783.69                    | 15.18                   |
| 33 05 63 00-0375 | EA  | 24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....                | 984.81                    | 15.18                   |

**33 Utilities**  
**33 05 Common Work Results for Utilities**  
**33 05 63 Concrete Vaults and Chambers**



| MINOR<br>CSI   | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|-----|---|---------------------------|-------------------------|
| 33 05 63 00-0376   | EA  | 30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....                  | 1,809.14                  | 46.61                   |
| <b>33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)</b>                |     |   |                           |                         |
| 33 05 63 00-0378   | EA  | 6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....                | 121.79                    | 10.13                   |
| 33 05 63 00-0379   | EA  | 7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....               | 147.85                    | 10.13                   |
| 33 05 63 00-0380   | EA  | 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 182.94                    | 10.13                   |
| 33 05 63 00-0381   | EA  | 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....               | 198.54                    | 10.13                   |
| 33 05 63 00-0382   | EA  | 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 198.11                    | 10.12                   |
| 33 05 63 00-0383   | EA  | 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 238.08                    | 10.12                   |
| 33 05 63 00-0384   | EA  | 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 277.36                    | 10.12                   |
| 33 05 63 00-0385   | EA  | 24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 687.80                    | 15.18                   |
| 33 05 63 00-0386   | EA  | 30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 1,290.18                  | 46.61                   |
| 33 05 63 00-0387   | EA  | 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 1,947.57                  | 31.46                   |
| 33 05 63 00-0388   | EA  | 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 1,693.56                  | 31.46                   |
| 33 05 63 00-0389   | EA  | 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 2,552.38                  | 31.46                   |
| 33 05 63 00-0390   | EA  | 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 2,461.57                  | 31.46                   |
| 33 05 63 00-0391   | EA  | 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 2,953.28                  | 31.46                   |
| 33 05 63 00-0392   | EA  | 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 3,159.86                  | 31.46                   |
| 33 05 63 00-0393   | EA  | 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 5,075.43                  | 31.46                   |
| 33 05 63 00-0394   | EA  | 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 168.63                    | 10.12                   |
| 33 05 63 00-0395   | EA  | 10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 164.29                    | 10.12                   |
| 33 05 63 00-0396   | EA  | 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 250.26                    | 10.12                   |
| 33 05 63 00-0397   | EA  | 11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 276.59                    | 10.12                   |
| 33 05 63 00-0398   | EA  | 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 315.18                    | 10.12                   |
| 33 05 63 00-0399   | EA  | 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts..... | 235.81                    | 10.12                   |
| 33 05 63 00-0400   | EA  | 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 264.87                    | 10.12                   |
| 33 05 63 00-0401   | EA  | 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 382.36                    | 10.12                   |
| 33 05 63 00-0402   | EA  | 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 552.24                    | 15.18                   |
| 33 05 63 00-0403   | EA  | 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 695.91                    | 15.18                   |
| 33 05 63 00-0404   | EA  | 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 687.37                    | 15.18                   |
| 33 05 63 00-0405   | EA  | 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 1,247.88                  | 24.47                   |
| 33 05 63 00-0406   | EA  | 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....              | 1,290.18                  | 27.97                   |
| <b>33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>                 |     |   |                           |                         |
| 33 05 63 00-0408   | EA  | 30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....               | 2,029.39                  | 31.46                   |
| 33 05 63 00-0409   | EA  | 36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....               | 2,956.31                  | 31.46                   |
| 33 05 63 00-0410   | EA  | 30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....               | 1,700.72                  | 46.61                   |
| 33 05 63 00-0411   | EA  | 30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....                 | 2,266.57                  | 46.61                   |
| 33 05 63 00-0412   | EA  | 30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....                 | 2,418.60                  | 31.46                   |
| 33 05 63 00-0413   | EA  | 36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....                 | 3,310.70                  | 31.46                   |
| <b>33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>                       |     |   |                           |                         |
| 33 05 63 00-0415   | EA  | 24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                     | 783.96                    | 15.18                   |
| 33 05 63 00-0416   | EA  | 36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                     | 1,468.18                  | 24.47                   |
| 33 05 63 00-0417   | EA  | 30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                     | 1,532.12                  | 46.61                   |
| 33 05 63 00-0418   | EA  | 6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                         | 114.53                    | 10.13                   |
| 33 05 63 00-0419   | EA  | 8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                         | 199.93                    | 10.13                   |
| 33 05 63 00-0420   | EA  | 12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                       | 221.53                    | 10.13                   |
| 33 05 63 00-0421   | EA  | 8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                        | 235.82                    | 10.13                   |
| 33 05 63 00-0422   | EA  | 10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                       | 205.03                    | 10.12                   |
| 33 05 63 00-0423   | EA  | 11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                       | 372.83                    | 10.12                   |
| 33 05 63 00-0424   | EA  | 24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                       | 1,058.29                  | 15.18                   |
| 33 05 63 00-0425   | EA  | 36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                       | 1,962.92                  | 24.47                   |
| 33 05 63 00-0426   | EA  | 30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....                       | 2,054.15                  | 46.61                   |
| <b>33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)</b>                             |     |   |                           |                         |
| Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.). |     |   |                           |                         |
| 33 05 63 00-0428   | EA  | 12" x 12" x 12" Precast Concrete Handholes With Steel Cover.....  | 991.55                    | 253.45                  |
| Note: 8000 To 12000 pound traffic rated top.   |     |   |                           |                         |
| For 15,000 to 22,500 Pound Traffic Rated Top, Add 18.00  |     |   |                           |                         |
| 33 05 63 00-0429   | EA  | 12" x 24" x 21" Precast Concrete Handholes With Steel Cover.....  | 1,684.69                  | 380.17                  |
| Note: 8000 To 12000 pound traffic rated top.   |     |   |                           |                         |
| For 15,000 to 22,500 Pound Traffic Rated Top, Add 110.37   |     |   |                           |                         |
| 33 05 63 00-0430   | EA  | 18" x 30" x 18" Precast Concrete Handholes With Steel Cover.....  | 2,024.31                  | 506.89                  |
| Note: 8000 To 12000 pound traffic rated top.   |     |   |                           |                         |
| For 15,000 to 22,500 Pound Traffic Rated Top, Add 194.10   |     |   |                           |                         |
| 33 05 63 00-0431   | EA  | 24" x 24" x 24" Precast Concrete Handholes With Steel Cover.....  | 2,110.55                  | 506.89                  |
| Note: 8000 To 12000 pound traffic rated top.   |     |   |                           |                         |
| For 15,000 to 22,500 Pound Traffic Rated Top, Add 245.66   |     |   |                           |                         |
| 33 05 63 00-0432   | EA  | 24" x 24" x 30" Precast Concrete Handholes With Steel Cover.....  | 2,466.62                  | 633.62                  |
| Note: 8000 To 12000 pound traffic rated top.   |     |   |                           |                         |
| For 15,000 to 22,500 Pound Traffic Rated Top, Add 296.15   |     |   |                           |                         |
| 33 05 63 00-0433   | EA  | 30" x 36" x 30" Precast Concrete Handholes With Steel Cover.....  | 2,609.71                  | 633.62                  |
| Note: 8000 To 12000 pound traffic rated top.   |     |   |                           |                         |
| For 15,000 to 22,500 Pound Traffic Rated Top, Add 324.61   |     |   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add | 3,003.83<br>379.56        | 760.34                  |
| 33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add | 3,443.66<br>527.85        | 887.07                  |
| 33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add | 3,429.06<br>568.88        | 760.34                  |
| 33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add | 3,465.63<br>398.68        | 760.34                  |
| 33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add     | 757.38<br>15.00           | 253.45                  |
| 33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add     | 897.77<br>15.00           | 285.13                  |
| 33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover .....<br>Note: 8000 To 12000 pound traffic rated top.<br>For 15,000 to 22,500 Pound Traffic Rated Top, Add    | 1,115.17<br>15.00         | 316.81                  |

**33 05 81 Metallic Castings for Utility Structures** (33 05)

33 05 81 00-0001 Manhole Accessories (33 05 81)

33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)  
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

|                  |    |   |        |
|------------------|----|---|--------|
| 33 05 81 00-0003 | EA | Cast Iron Manhole Step For New Manholes .....       | 101.93 |
| 33 05 81 00-0004 | EA | Galvanized Steel Manhole Step For New Manholes..... | 68.04  |
| 33 05 81 00-0005 | EA | Aluminum Manhole Step For New Manholes.....         | 95.88  |

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames (33 05 81 00-0006)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 33 05 81 00-0008 | EA | 18" Square, Gray Iron, Manhole Cover With Frame .....   | 2,374.15 | 89.73  |
|                  |    | For Ductile Iron Castings, Add                          | 1,472.02 |        |
| 33 05 81 00-0009 | EA | 18" Diameter, Gray Iron, Manhole Cover With Frame ..... | 1,292.00 | 89.73  |
|                  |    | For Ductile Iron Castings, Add                          | 714.51   |        |
| 33 05 81 00-0010 | EA | 24" Diameter, Gray Iron, Manhole Cover With Frame ..... | 1,493.20 | 104.34 |
|                  |    | For Ductile Iron Castings, Add                          | 826.13   |        |
| 33 05 81 00-0011 | EA | 24" Square, Gray Iron, Manhole Cover With Frame .....   | 2,398.35 | 115.81 |
|                  |    | For Ductile Iron Castings, Add                          | 1,435.40 |        |
| 33 05 81 00-0012 | EA | 26" Diameter, Gray Iron, Manhole Cover With Frame ..... | 2,003.86 | 125.20 |
|                  |    | For Ductile Iron Castings, Add                          | 1,138.73 |        |
| 33 05 81 00-0013 | EA | 30" Diameter, Gray Iron, Manhole Cover With Frame ..... | 2,091.33 | 130.42 |
|                  |    | For Ductile Iron Castings, Add                          | 1,190.06 |        |

33 05 81 00-0014 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 33 05 81 00-0015 | EA | 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 2,616.98 | 74.08  |
|                  |    | For Ductile Iron Castings, Add                                     | 1,625.48 |        |
| 33 05 81 00-0016 | EA | 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 2,648.87 | 74.08  |
|                  |    | For Ductile Iron Castings, Add                                     | 1,630.80 |        |
| 33 05 81 00-0017 | EA | 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 2,692.87 | 86.60  |
|                  |    | For Ductile Iron Castings, Add                                     | 1,641.56 |        |
| 33 05 81 00-0018 | EA | 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 3,220.90 | 97.03  |
|                  |    | For Ductile Iron Castings, Add                                     | 1,990.65 |        |
| 33 05 81 00-0019 | EA | 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 3,748.39 | 99.12  |
|                  |    | For Ductile Iron Castings, Add                                     | 2,350.01 |        |
| 33 05 81 00-0020 | EA | 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 3,951.11 | 101.21 |
|                  |    | For Ductile Iron Castings, Add                                     | 2,488.32 |        |
| 33 05 81 00-0021 | EA | 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame ..... | 4,132.47 | 104.34 |
|                  |    | For Ductile Iron Castings, Add                                     | 2,611.55 |        |

33 05 81 00-0022 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

|                  |    |  |          |       |
|------------------|----|--|----------|-------|
| 33 05 81 00-0023 | EA | 12" Square Aluminum Manhole Cover With Frame ..... | 1,187.70 | 31.59 |
| 33 05 81 00-0024 | EA | 18" Square Aluminum Manhole Cover With Frame ..... | 2,181.84 | 34.97 |
| 33 05 81 00-0025 | EA | 24" Square Aluminum Manhole Cover With Frame ..... | 3,133.87 | 40.61 |

33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006)

Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.

|                  |    |   |        |
|------------------|----|---|--------|
| 33 05 81 00-0027 | EA | Removal And Reinstallation Of Manhole Cover And Frame ..... | 418.32 |
|------------------|----|---|--------|

**33 05 83 Non-Metallic Accessories for Utility Structures** (33 05)

33 05 83 00-0001 Manhole Accessories (33 05 83)



**33 Utilities****33 05 Common Work Results for Utilities****33 05 83 Non-Metallic Accessories for Utility Structures**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

|                         |  |          |        |
|-------------------------|--|----------|--------|
| <b>33 05 83 00-0002</b> | <b>Steps For Cast-In-Place Manholes</b> <small>(33 05 83 00-0001)</small>  |          |        |
|                         | See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.                                 |          |        |
| 33 05 83 00-0003        | EA Polypropylene Manhole Step For New Manholes .....   | 52.00    |        |
| <b>33 05 83 00-0004</b> | <b>Rainguard Inflow Protectors</b> <small>(33 05 83)</small>   |          |        |
| 33 05 83 00-0005        | EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....                           | 134.06   | 21.60  |
| 33 05 83 00-0006        | EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....                           | 157.40   | 21.60  |
| 33 05 83 00-0007        | EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....                           | 188.14   | 25.93  |
| 33 05 83 00-0008        | EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....                           | 202.89   | 25.93  |
| 33 05 83 00-0009        | EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....                           | 253.03   | 30.25  |
| 33 05 83 00-0010        | EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....                           | 271.15   | 30.25  |
| <b>33 05 84</b>         | <b>Accessories for Utility Structures</b> <small>(33 05)</small>   |          |        |
|                         | See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors.               |          |        |
| <b>33 05 84 00-0001</b> | <b>Manhole Accessories</b> <small>(33 05 84)</small>   |          |        |
| <b>33 05 84 00-0002</b> | <b>Precast Concrete Manhole Tops</b> <small>(33 05 84 00-0001)</small>   |          |        |
| <b>33 05 84 00-0003</b> | <b>Precast Concrete Manhole Slab Tops</b> <small>(33 05 84 00-0002)</small>                                      |          |        |
| 33 05 84 00-0004        | EA 3' Diameter x 8" Thick Precast Manhole Top Slab .....   | 591.56   | 78.25  |
| 33 05 84 00-0005        | EA 4' Diameter x 8" Thick Precast Manhole Top Slab .....   | 834.08   | 84.51  |
| 33 05 84 00-0006        | EA 5' Diameter x 8" Thick Precast Manhole Top Slab .....   | 1,135.23 | 90.78  |
| 33 05 84 00-0007        | EA 6' Diameter x 8" Thick Precast Manhole Top Slab .....   | 1,362.46 | 97.03  |
| <b>33 05 84 00-0008</b> | <b>Precast Concrete Manhole Cone Tops</b> <small>(33 05 84 00-0002)</small>                                      |          |        |
| 33 05 84 00-0009        | EA 3' Diameter x 8" Thick Precast Manhole Top Cone.....  | 948.36   | 97.82  |
| 33 05 84 00-0010        | EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone .....  | 1,056.85 | 101.73 |
| 33 05 84 00-0011        | EA 4' Diameter x 8" Thick Precast Manhole Top Cone.....  | 1,165.37 | 105.64 |
| 33 05 84 00-0012        | EA 5' Diameter x 8" Thick Precast Manhole Top Cone.....  | 1,377.13 | 112.16 |
| 33 05 84 00-0013        | EA 6' Diameter x 8" Thick Precast Manhole Top Cone.....  | 1,594.15 | 119.99 |
| <b>33 05 84 00-0014</b> | <b>Precast Concrete Manhole Reducer Slabs</b> <small>(33 05 84 00-0002)</small>                                  |          |        |
| 33 05 84 00-0015        | EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....                                       | 1,288.85 | 90.78  |
| 33 05 84 00-0016        | EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....                                       | 1,668.30 | 97.03  |
| 33 05 84 00-0017        | EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....                                       | 2,216.14 | 97.03  |
| 33 05 84 00-0018        | EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....                                       | 3,532.46 | 97.03  |
| 33 05 84 00-0019        | EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....                                      | 4,556.52 | 97.03  |
| 33 05 84 00-0020        | EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....                                      | 6,618.68 | 97.03  |
| <b>33 05 84 00-0021</b> | <b>Pipe To Manhole Connector</b> <small>(33 05 84 00-0001)</small>   |          |        |
| <b>33 05 84 00-0022</b> | <b>Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors</b> <small>(33 05 84 00-0021)</small> |          |        |
| 33 05 84 00-0023        | EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                                | 145.11   |        |
| 33 05 84 00-0024        | EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                                | 226.88   |        |
| 33 05 84 00-0025        | EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                                | 255.12   |        |
| 33 05 84 00-0026        | EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 406.50   |        |
| 33 05 84 00-0027        | EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 576.55   |        |
| 33 05 84 00-0028        | EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 755.25   |        |
| 33 05 84 00-0029        | EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 1,408.70 |        |
| 33 05 84 00-0030        | EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 1,967.98 |        |
| 33 05 84 00-0031        | EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 3,161.68 |        |
| 33 05 84 00-0032        | EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....                               | 3,705.27 |        |
| <b>33 05 84 00-0033</b> | <b>Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout</b> <small>(33 05 84 00-0021)</small> |          |        |
|                         | Note: Fernco CMA.  |          |        |
| 33 05 84 00-0034        | EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....                               | 110.13   |        |
| 33 05 84 00-0035        | EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....                               | 153.31   |        |
| 33 05 84 00-0036        | EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....                               | 193.83   |        |
| 33 05 84 00-0037        | EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....                              | 234.14   |        |
| 33 05 84 00-0038        | EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....                              | 271.55   |        |
| <b>33 05 84 00-0039</b> | <b>Brick And Grout Pipe To Manhole Connector</b> <small>(33 05 84 00-0021)</small>                               |          |        |
| 33 05 84 00-0040        | EA Seal Gap Between Pipe And Structure With Brick And Grout.....   | 287.70   |        |
| <b>33 05 84 00-0041</b> | <b>Inverts For Manholes</b> <small>(33 05 84 00-0001)</small>  |          |        |
| 33 05 84 00-0042        | EA Single Channel Concrete Invert For Manholes .....   | 475.84   |        |
| 33 05 84 00-0043        | EA Double Channel Concrete Invert For Manholes .....   | 681.57   |        |
| 33 05 84 00-0044        | EA Triple Channel Concrete Invert For Manholes .....   | 919.58   |        |
| 33 05 84 00-0045        | EA Quad Channel Concrete Invert For Manholes .....   | 1,157.52 |        |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 05 84 00-0046 EA Single Channel Brick Invert For Manholes.....                              | 677.82                    |                         |
| 33 05 84 00-0047 EA Double Channel Brick Invert For Manholes.....                              | 1,014.58                  |                         |
| 33 05 84 00-0048 EA Triple Channel Brick Invert For Manholes.....                              | 1,357.10                  |                         |
| 33 05 84 00-0049 EA Quad Channel Brick Invert For Manholes.....                                | 1,695.94                  |                         |
| <b>33 05 84 00-0050 Protective Coating For New Manholes</b> (33 05 84 00-0001)                 |                           |                         |
| <b>33 05 84 00-0051 Polyurethane Protective Coating For New Manholes</b> (33 05 84 00-0050)    |                           |                         |
| 33 05 84 00-0052 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....          | 220.02                    |                         |
| <i>For 80 Mil Material, Add</i>  | 32.26                     |                         |
| <i>For 100 Mil Material, Add</i>   | 64.51                     |                         |
| <i>For 125 Mil Material, Add</i>   | 101.85                    |                         |
| <i>For 150 Mil Material, Add</i>   | 139.19                    |                         |
| <i>For 200 Mil Material, Add</i>   | 205.92                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -14.98                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -24.45                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -48.91                    |                         |
| 33 05 84 00-0053 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....      | 265.58                    |                         |
| <i>For 80 Mil Material, Add</i>  | 38.32                     |                         |
| <i>For 100 Mil Material, Add</i>   | 76.63                     |                         |
| <i>For 125 Mil Material, Add</i>   | 120.89                    |                         |
| <i>For 150 Mil Material, Add</i>   | 165.14                    |                         |
| <i>For 200 Mil Material, Add</i>   | 243.92                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -18.14                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -29.64                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -59.27                    |                         |
| 33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....          | 293.35                    |                         |
| <i>For 80 Mil Material, Add</i>  | 43.01                     |                         |
| <i>For 100 Mil Material, Add</i>   | 86.02                     |                         |
| <i>For 125 Mil Material, Add</i>   | 135.80                    |                         |
| <i>For 150 Mil Material, Add</i>   | 185.59                    |                         |
| <i>For 200 Mil Material, Add</i>   | 274.56                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -19.97                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -32.60                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -65.21                    |                         |
| 33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....          | 366.75                    |                         |
| <i>For 80 Mil Material, Add</i>  | 53.78                     |                         |
| <i>For 100 Mil Material, Add</i>   | 107.56                    |                         |
| <i>For 125 Mil Material, Add</i>   | 169.82                    |                         |
| <i>For 150 Mil Material, Add</i>   | 232.08                    |                         |
| <i>For 200 Mil Material, Add</i>   | 343.34                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -24.96                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -40.76                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -81.52                    |                         |
| 33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....          | 425.95                    |                         |
| <i>For 80 Mil Material, Add</i>  | 63.47                     |                         |
| <i>For 100 Mil Material, Add</i>   | 126.95                    |                         |
| <i>For 125 Mil Material, Add</i>   | 200.59                    |                         |
| <i>For 150 Mil Material, Add</i>   | 274.23                    |                         |
| <i>For 200 Mil Material, Add</i>   | 406.32                    |                         |
| <i>For 2 To 5 Manholes, Deduct</i>   | -28.90                    |                         |
| <i>For 6 To 10 Manholes, Deduct</i>  | -47.14                    |                         |
| <i>For &gt;10 Manholes, Deduct</i>   | -94.28                    |                         |
| <b>33 05 84 00-0057 Polyvinyl Chloride (PVC) Liner</b> (33 05 84 00-0050)                      |                           |                         |
| Note: For new manholes and shop applied.   |                           |                         |
| 33 05 84 00-0058 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....           | 286.75                    |                         |
| 33 05 84 00-0059 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....       | 351.50                    |                         |
| 33 05 84 00-0060 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....           | 428.96                    |                         |
| 33 05 84 00-0061 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....           | 538.69                    |                         |
| 33 05 84 00-0062 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....           | 648.42                    |                         |
| 33 05 84 00-0063 SF Polyvinyl Chloride (PVC) Liner At Structures.....                          | 90.04                     |                         |
| <b>33 05 84 00-0064 Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0001)               |                           |                         |
| <b>33 05 84 00-0065 18" Diameter, Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0064) |                           |                         |
| 33 05 84 00-0066 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings.....          | 89.07                     |                         |
| 33 05 84 00-0067 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....           | 97.50                     |                         |
| 33 05 84 00-0068 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....           | 105.92                    |                         |
| 33 05 84 00-0069 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....          | 114.35                    |                         |
| <b>33 05 84 00-0070 24" Diameter, Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0064) |                           |                         |
| 33 05 84 00-0071 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....           | 100.04                    |                         |
| 33 05 84 00-0072 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....           | 109.61                    |                         |
| 33 05 84 00-0073 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....           | 119.19                    |                         |
| 33 05 84 00-0074 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....          | 128.76                    |                         |
| <b>33 05 84 00-0075 30" Diameter, Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0064) |                           |                         |
| 33 05 84 00-0076 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....           | 110.77                    |                         |

**33 Utilities****33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 05 84 00-0077 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....                   | 121.44                    |                         |
| 33 05 84 00-0078 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....                   | 132.12                    |                         |
| 33 05 84 00-0079 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....                  | 142.79                    |                         |
| <b>33 05 84 00-0080 Bentonite Collar</b> <small>(33 05 84 00-0001)</small>                              |                           |                         |
| <b>33 05 84 00-0081 Bentonite Collar At Manhole Connections</b> <small>(33 05 84 00-0080)</small>       |                           |                         |
| 33 05 84 00-0082 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection .....                        | 180.49                    |                         |
| 33 05 84 00-0083 EA >12" To 21", Bentonite Collar At Manhole Connection .....                           | 286.16                    |                         |
| 33 05 84 00-0084 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection .....                      | 455.87                    |                         |
| 33 05 84 00-0085 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection .....                      | 1,068.31                  |                         |
| 33 05 84 00-0086 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection .....                      | 1,650.66                  |                         |
| 33 05 84 00-0087 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection .....                      | 2,992.76                  |                         |
| <b>33 05 84 00-0088 Waste Water Collection System Taps</b> <small>(33 05 84)</small>                    |                           |                         |
| Note: For tapping existing structures only. Includes grout.   |                           |                         |
| <b>33 05 84 00-0089 Brick Manhole Taps</b> <small>(33 05 84 00-0088)</small>                            |                           |                         |
| 33 05 84 00-0090 EA 4" Tap In 6" Brick Manhole .....  | 541.26                    |                         |
| 33 05 84 00-0091 EA 6" Tap In 6" Brick Manhole .....  | 604.11                    |                         |
| 33 05 84 00-0092 EA 8" Tap In 6" Brick Manhole .....  | 665.84                    |                         |
| 33 05 84 00-0093 EA 10" Tap In 6" Brick Manhole .....   | 727.45                    |                         |
| 33 05 84 00-0094 EA 12" Tap In 6" Brick Manhole .....   | 803.63                    |                         |
| 33 05 84 00-0095 EA 15" Tap In 6" Brick Manhole .....   | 865.11                    |                         |
| <b>33 05 84 00-0096 Precast Concrete Manhole Tap</b> <small>(33 05 84 00-0088)</small>                  |                           |                         |
| 33 05 84 00-0097 EA 4" Tap In Existing Precast Concrete Manhole.....                                    | 787.88                    |                         |
| 33 05 84 00-0098 EA 6" Tap In Existing Precast Concrete Manhole.....                                    | 882.16                    |                         |
| 33 05 84 00-0099 EA 8" Tap In Existing Precast Concrete Manhole.....                                    | 987.18                    |                         |
| 33 05 84 00-0100 EA 10" Tap In Existing Precast Concrete Manhole.....                                   | 1,079.59                  |                         |
| 33 05 84 00-0101 EA 12" Tap In Existing Precast Concrete Manhole.....                                   | 1,171.83                  |                         |
| 33 05 84 00-0102 EA 15" Tap In Existing Precast Concrete Manhole.....                                   | 1,266.30                  |                         |
| 33 05 84 00-0103 EA 18" Tap In Existing Precast Concrete Manhole.....                                   | 1,460.16                  |                         |
| 33 05 84 00-0104 EA 24" Tap In Existing Precast Concrete Manhole.....                                   | 1,878.76                  |                         |
| <b>33 05 97 Identification and Signage for Utilities</b> <small>(33 05)</small>                         |                           |                         |
| <b>33 05 97 23 Utility Identification Warning Tape</b> <small>(33 05 97)</small>                        |                           |                         |
| <b>33 05 97 23-0001 Non-Detectable Utility Warning Tape</b> <small>(33 05 97 23)</small>                |                           |                         |
| Note: Labor installation is included with pipe and excavation..   |                           |                         |
| 33 05 97 23-0002 CLF 3" Non-Detectable Utility Warning Tape .....                                       | 7.79                      |                         |
| 33 05 97 23-0003 CLF 6" Non-Detectable Utility Warning Tape .....                                       | 11.09                     |                         |
| <b>33 05 97 23-0004 Detectable Utility Warning Tape</b> <small>(33 05 97 23)</small>                    |                           |                         |
| Note: Labor installation is included with pipe and excavation..   |                           |                         |
| 33 05 97 23-0005 CLF 2" Detectable Utility Warning Tape .....   | 7.94                      |                         |
| 33 05 97 23-0006 CLF 3" Detectable Utility Warning Tape .....   | 10.94                     |                         |
| 33 05 97 23-0007 CLF 6" Detectable Utility Warning Tape .....   | 17.70                     |                         |
| <b>33 10 Water Utilities</b> <small>(33)</small>  |                           |                         |
| <b>33 11 Groundwater Sources</b> <small>(33 10)</small>   |                           |                         |
| <b>33 11 13 Potable Water Supply Wells</b> <small>(33 11)</small>                                       |                           |                         |
| <b>33 11 13 00-0001 Drill And Test Water Well</b> <small>(33 11 13)</small>                             |                           |                         |
| <b>33 11 13 00-0002 Drill Hole</b> <small>(33 11 13 00-0001)</small>                                    |                           |                         |
| Note: Excludes loading and hauling of spoils.   |                           |                         |
| <b>33 11 13 00-0003 Mobilization And Demobilization</b> <small>(33 11 13 00-0002)</small>               |                           |                         |
| 33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....              | 1,057.88                  |                         |
| 33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization .....           | 1,289.09                  |                         |
| 33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization .....           | 1,933.64                  |                         |
| <b>33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B.</b> <small>(33 11 13 00-0002)</small> |                           |                         |
| Note: Excludes well casing, gravel or materials.  |                           |                         |
| 33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....                   | 24.98                     |                         |
| For >100 To 250, Add  | 0.62                      |                         |
| For >250 To 400, Add  | 1.25                      |                         |
| For >400 To 600, Add  | 1.87                      |                         |
| For >600 To 750, Add  | 2.50                      |                         |
| For >750, Add   | 3.12                      |                         |



|                            |              |           |
|----------------------------|--------------|-----------|
| <b>Utilities</b>           | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>     | <b>33 10</b> |           |
| <b>Groundwater Sources</b> | <b>33 11</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. ....  | 29.65                     |                         |
| For >100 To 250, Add  | 0.74                      |                         |
| For >250 To 400, Add  | 1.48                      |                         |
| For >400 To 600, Add  | 2.22                      |                         |
| For >600 To 750, Add  | 2.97                      |                         |
| For >750, Add   | 3.71                      |                         |
| 33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 39.64                     |                         |
| For >100 To 250, Add  | 0.99                      |                         |
| For >250 To 400, Add  | 1.98                      |                         |
| For >400 To 600, Add  | 2.97                      |                         |
| For >600 To 750, Add  | 3.96                      |                         |
| For >750, Add   | 4.96                      |                         |
| 33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 62.04                     |                         |
| For >100 To 250, Add  | 1.55                      |                         |
| For >250 To 400, Add  | 3.10                      |                         |
| For >400 To 600, Add  | 4.65                      |                         |
| For >600 To 750, Add  | 6.20                      |                         |
| For >750, Add   | 7.76                      |                         |
| 33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 89.27                     |                         |
| For >100 To 250, Add  | 2.23                      |                         |
| For >250 To 400, Add  | 4.46                      |                         |
| For >400 To 600, Add  | 6.70                      |                         |
| For >600 To 750, Add  | 8.93                      |                         |
| For >750, Add   | 11.16                     |                         |
| 33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 116.66                    |                         |
| For >100 To 250, Add  | 2.92                      |                         |
| For >250 To 400, Add  | 5.83                      |                         |
| For >400 To 600, Add  | 8.75                      |                         |
| For >600 To 750, Add  | 11.67                     |                         |
| For >750, Add   | 14.58                     |                         |
| 33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 138.58                    |                         |
| For >100 To 250, Add  | 3.46                      |                         |
| For >250 To 400, Add  | 6.93                      |                         |
| For >400 To 600, Add  | 10.39                     |                         |
| For >600 To 750, Add  | 13.86                     |                         |
| For >750, Add   | 17.32                     |                         |
| 33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 161.14                    |                         |
| For >100 To 250, Add  | 4.03                      |                         |
| For >250 To 400, Add  | 8.06                      |                         |
| For >400 To 600, Add  | 12.09                     |                         |
| For >600 To 750, Add  | 16.11                     |                         |
| For >750, Add   | 20.14                     |                         |
| 33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 189.33                    |                         |
| For >100 To 250, Add  | 4.73                      |                         |
| For >250 To 400, Add  | 9.47                      |                         |
| For >400 To 600, Add  | 14.20                     |                         |
| For >600 To 750, Add  | 18.93                     |                         |
| For >750, Add   | 23.67                     |                         |
| 33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 223.18                    |                         |
| For >100 To 250, Add  | 5.58                      |                         |
| For >250 To 400, Add  | 11.16                     |                         |
| For >400 To 600, Add  | 16.74                     |                         |
| For >600 To 750, Add  | 22.32                     |                         |
| For >750, Add   | 27.90                     |                         |
| 33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 241.22                    |                         |
| For >100 To 250, Add  | 6.03                      |                         |
| For >250 To 400, Add  | 12.06                     |                         |
| For >400 To 600, Add  | 18.09                     |                         |
| For >600 To 750, Add  | 24.12                     |                         |
| For >750, Add   | 30.15                     |                         |
| 33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 265.39                    |                         |
| For >100 To 250, Add  | 6.63                      |                         |
| For >250 To 400, Add  | 13.27                     |                         |
| For >400 To 600, Add  | 19.90                     |                         |
| For >600 To 750, Add  | 26.54                     |                         |
| For >750, Add   | 33.17                     |                         |
| 33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 290.69                    |                         |
| For >100 To 250, Add  | 7.27                      |                         |
| For >250 To 400, Add  | 14.53                     |                         |
| For >400 To 600, Add  | 21.80                     |                         |
| For >600 To 750, Add  | 29.07                     |                         |
| For >750, Add   | 36.34                     |                         |
| 33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. .... | 361.59                    |                         |
| For >100 To 250, Add  | 9.04                      |                         |
| For >250 To 400, Add  | 18.08                     |                         |
| For >400 To 600, Add  | 27.12                     |                         |
| For >600 To 750, Add  | 36.16                     |                         |
| For >750, Add   | 45.20                     |                         |

33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)

|              |                            |
|--------------|----------------------------|
| <b>33</b>    | <b>Utilities</b>           |
| <b>33 10</b> | <b>Water Utilities</b>     |
| <b>33 11</b> | <b>Groundwater Sources</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock .....  | 50.92                     |                         |
| For>100 To 250, Add   | 1.27                      |                         |
| For>250 To 400, Add   | 2.55                      |                         |
| For>400 To 600, Add   | 3.82                      |                         |
| For>600 To 750, Add   | 5.09                      |                         |
| For>750, Add  | 6.37                      |                         |
| 33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock .....  | 59.30                     |                         |
| For>100 To 250, Add   | 1.48                      |                         |
| For>250 To 400, Add   | 2.97                      |                         |
| For>400 To 600, Add   | 4.45                      |                         |
| For>600 To 750, Add   | 5.93                      |                         |
| For>750, Add  | 7.41                      |                         |
| 33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock ..... | 94.95                     |                         |
| For>100 To 250, Add   | 2.37                      |                         |
| For>250 To 400, Add   | 4.75                      |                         |
| For>400 To 600, Add   | 7.12                      |                         |
| For>600 To 750, Add   | 9.50                      |                         |
| For>750, Add  | 11.87                     |                         |
| 33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock ..... | 124.14                    |                         |
| For>100 To 250, Add   | 3.10                      |                         |
| For>250 To 400, Add   | 6.21                      |                         |
| For>400 To 600, Add   | 9.31                      |                         |
| For>600 To 750, Add   | 12.41                     |                         |
| For>750, Add  | 15.52                     |                         |
| 33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock ..... | 178.67                    |                         |
| For>100 To 250, Add   | 4.47                      |                         |
| For>250 To 400, Add   | 8.93                      |                         |
| For>400 To 600, Add   | 13.40                     |                         |
| For>600 To 750, Add   | 17.87                     |                         |
| For>750, Add  | 22.33                     |                         |
| 33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock ..... | 233.20                    |                         |
| For>100 To 250, Add   | 5.83                      |                         |
| For>250 To 400, Add   | 11.66                     |                         |
| For>400 To 600, Add   | 17.49                     |                         |
| For>600 To 750, Add   | 23.32                     |                         |
| For>750, Add  | 29.15                     |                         |
| 33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock ..... | 277.28                    |                         |
| For>100 To 250, Add   | 6.93                      |                         |
| For>250 To 400, Add   | 13.86                     |                         |
| For>400 To 600, Add   | 20.80                     |                         |
| For>600 To 750, Add   | 27.73                     |                         |
| For>750, Add  | 34.66                     |                         |
| 33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock ..... | 321.76                    |                         |
| For>100 To 250, Add   | 8.04                      |                         |
| For>250 To 400, Add   | 16.09                     |                         |
| For>400 To 600, Add   | 24.13                     |                         |
| For>600 To 750, Add   | 32.18                     |                         |
| For>750, Add  | 40.22                     |                         |
| 33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock ..... | 378.99                    |                         |
| For>100 To 250, Add   | 9.47                      |                         |
| For>250 To 400, Add   | 18.95                     |                         |
| For>400 To 600, Add   | 28.42                     |                         |
| For>600 To 750, Add   | 37.90                     |                         |
| For>750, Add  | 47.37                     |                         |
| 33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock ..... | 437.78                    |                         |
| For>100 To 250, Add   | 10.94                     |                         |
| For>250 To 400, Add   | 21.89                     |                         |
| For>400 To 600, Add   | 32.83                     |                         |
| For>600 To 750, Add   | 43.78                     |                         |
| For>750, Add  | 54.72                     |                         |
| 33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock ..... | 482.45                    |                         |
| For>100 To 250, Add   | 12.06                     |                         |
| For>250 To 400, Add   | 24.12                     |                         |
| For>400 To 600, Add   | 36.18                     |                         |
| For>600 To 750, Add   | 48.25                     |                         |
| For>750, Add  | 60.31                     |                         |
| 33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock ..... | 530.79                    |                         |
| For>100 To 250, Add   | 13.27                     |                         |
| For>250 To 400, Add   | 26.54                     |                         |
| For>400 To 600, Add   | 39.81                     |                         |
| For>600 To 750, Add   | 53.08                     |                         |
| For>750, Add  | 66.35                     |                         |
| 33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock ..... | 581.38                    |                         |
| For>100 To 250, Add   | 14.53                     |                         |
| For>250 To 400, Add   | 29.07                     |                         |
| For>400 To 600, Add   | 43.60                     |                         |
| For>600 To 750, Add   | 58.14                     |                         |
| For>750, Add  | 72.67                     |                         |
| 33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock ..... | 723.18                    |                         |
| For>100 To 250, Add   | 18.08                     |                         |
| For>250 To 400, Add   | 36.16                     |                         |
| For>400 To 600, Add   | 54.24                     |                         |
| For>600 To 750, Add   | 72.32                     |                         |
| For>750, Add  | 90.40                     |                         |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Utilities</b>    | <b>33</b> | <b>CS</b> |
| Water Utilities     | 33 10     |           |
| Groundwater Sources | 33 11     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>33 11 13 00-0037</b> <b>Drill Hole In Crystalline Rock</b> <small>(33 11 13 00-0002)</small> |                           |                         |
| 33 11 13 00-0038    LF    6" Water Well Hole Drilled In Crystalline Rock.....                   | 104.73                    |                         |
| For >100 To 250, Add  | 2.62                      |                         |
| For >250 To 400, Add  | 5.24                      |                         |
| For >400 To 600, Add  | 7.85                      |                         |
| For >600 To 750, Add  | 10.47                     |                         |
| For >750, Add   | 13.09                     |                         |
| 33 11 13 00-0039    LF    8" Water Well Hole Drilled In Crystalline Rock.....                   | 120.86                    |                         |
| For >100 To 250, Add  | 3.02                      |                         |
| For >250 To 400, Add  | 6.04                      |                         |
| For >400 To 600, Add  | 9.06                      |                         |
| For >600 To 750, Add  | 12.09                     |                         |
| For >750, Add   | 15.11                     |                         |
| 33 11 13 00-0040    LF    10" Water Well Hole Drilled In Crystalline Rock.....                  | 138.58                    |                         |
| For >100 To 250, Add  | 3.46                      |                         |
| For >250 To 400, Add  | 6.93                      |                         |
| For >400 To 600, Add  | 10.39                     |                         |
| For >600 To 750, Add  | 13.86                     |                         |
| For >750, Add   | 17.32                     |                         |
| 33 11 13 00-0041    LF    12" Water Well Hole Drilled In Crystalline Rock.....                  | 175.64                    |                         |
| For >100 To 250, Add  | 4.39                      |                         |
| For >250 To 400, Add  | 8.78                      |                         |
| For >400 To 600, Add  | 13.17                     |                         |
| For >600 To 750, Add  | 17.56                     |                         |
| For >750, Add   | 21.96                     |                         |
| 33 11 13 00-0042    LF    14" Water Well Hole Drilled In Crystalline Rock.....                  | 227.20                    |                         |
| For >100 To 250, Add  | 5.68                      |                         |
| For >250 To 400, Add  | 11.36                     |                         |
| For >400 To 600, Add  | 17.04                     |                         |
| For >600 To 750, Add  | 22.72                     |                         |
| For >750, Add   | 28.40                     |                         |
| 33 11 13 00-0043    LF    16" Water Well Hole Drilled In Crystalline Rock.....                  | 330.33                    |                         |
| For >100 To 250, Add  | 8.26                      |                         |
| For >250 To 400, Add  | 16.52                     |                         |
| For >400 To 600, Add  | 24.77                     |                         |
| For >600 To 750, Add  | 33.03                     |                         |
| For >750, Add   | 41.29                     |                         |
| 33 11 13 00-0044    LF    18" Water Well Hole Drilled In Crystalline Rock.....                  | 393.17                    |                         |
| For >100 To 250, Add  | 9.83                      |                         |
| For >250 To 400, Add  | 19.66                     |                         |
| For >400 To 600, Add  | 29.49                     |                         |
| For >600 To 750, Add  | 39.32                     |                         |
| For >750, Add   | 49.15                     |                         |
| 33 11 13 00-0045    LF    20" Water Well Hole Drilled In Crystalline Rock.....                  | 456.02                    |                         |
| For >100 To 250, Add  | 11.40                     |                         |
| For >250 To 400, Add  | 22.80                     |                         |
| For >400 To 600, Add  | 34.20                     |                         |
| For >600 To 750, Add  | 45.60                     |                         |
| For >750, Add   | 57.00                     |                         |
| 33 11 13 00-0046    LF    22" Water Well Hole Drilled In Crystalline Rock.....                  | 536.58                    |                         |
| For >100 To 250, Add  | 13.41                     |                         |
| For >250 To 400, Add  | 26.83                     |                         |
| For >400 To 600, Add  | 40.24                     |                         |
| For >600 To 750, Add  | 53.66                     |                         |
| For >750, Add   | 67.07                     |                         |
| 33 11 13 00-0047    LF    24" Water Well Hole Drilled In Crystalline Rock.....                  | 620.38                    |                         |
| For >100 To 250, Add  | 15.51                     |                         |
| For >250 To 400, Add  | 31.02                     |                         |
| For >400 To 600, Add  | 46.53                     |                         |
| For >600 To 750, Add  | 62.04                     |                         |
| For >750, Add   | 77.55                     |                         |
| <b>33 11 13 00-0048</b> <b>Furnish And Install Casing</b> <small>(33 11 13 00-0001)</small>     |                           |                         |
| Note: Excludes drilling of hole.  |                           |                         |
| <b>33 11 13 00-0049</b> <b>Steel Well Casing</b> <small>(33 11 13 00-0048)</small>              |                           |                         |
| 33 11 13 00-0050    LF    6" Diameter, Steel Well Casing, Flush .....                           | 46.75                     |                         |
| For >100 To 250, Deduct   | -1.38                     |                         |
| For >250 To 400, Deduct   | -2.55                     |                         |
| For >400 To 600, Deduct   | -3.82                     |                         |
| For >600 To 750, Deduct   | -5.10                     |                         |
| For >750, Deduct  | -6.64                     |                         |
| 33 11 13 00-0051    LF    8" Diameter, Steel Well Casing, Flush .....                           | 58.11                     |                         |
| For >100 To 250, Deduct   | -1.72                     |                         |
| For >250 To 400, Deduct   | -3.17                     |                         |
| For >400 To 600, Deduct   | -4.75                     |                         |
| For >600 To 750, Deduct   | -6.34                     |                         |
| For >750, Deduct  | -8.27                     |                         |
| 33 11 13 00-0052    LF    10" Diameter, Steel Well Casing, Flush .....                          | 86.49                     |                         |
| For >100 To 250, Deduct   | -2.48                     |                         |
| For >250 To 400, Deduct   | -4.64                     |                         |
| For >400 To 600, Deduct   | -6.96                     |                         |
| For >600 To 750, Deduct   | -9.28                     |                         |
| For >750, Deduct  | -12.01                    |                         |

**33 Utilities****33 10 Water Utilities****33 11 Groundwater Sources**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush .....                       | 146.00                    |                         |
| For>100 To 250, Deduct   | -4.03                     |                         |
| For>250 To 400, Deduct   | -7.68                     |                         |
| For>400 To 600, Deduct   | -11.52                    |                         |
| For>600 To 750, Deduct   | -15.36                    |                         |
| For>750, Deduct  | -19.69                    |                         |
| 33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush .....                       | 163.14                    |                         |
| For>100 To 250, Deduct   | -4.61                     |                         |
| For>250 To 400, Deduct   | -8.68                     |                         |
| For>400 To 600, Deduct   | -13.03                    |                         |
| For>600 To 750, Deduct   | -17.37                    |                         |
| For>750, Deduct  | -22.39                    |                         |
| 33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush .....                       | 191.33                    |                         |
| For>100 To 250, Deduct   | -5.44                     |                         |
| For>250 To 400, Deduct   | -10.22                    |                         |
| For>400 To 600, Deduct   | -15.33                    |                         |
| For>600 To 750, Deduct   | -20.44                    |                         |
| For>750, Deduct  | -26.40                    |                         |
| 33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush .....                       | 217.85                    |                         |
| For>100 To 250, Deduct   | -6.27                     |                         |
| For>250 To 400, Deduct   | -11.71                    |                         |
| For>400 To 600, Deduct   | -17.57                    |                         |
| For>600 To 750, Deduct   | -23.43                    |                         |
| For>750, Deduct  | -30.35                    |                         |
| 33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush .....                       | 247.93                    |                         |
| For>100 To 250, Deduct   | -7.21                     |                         |
| For>250 To 400, Deduct   | -13.41                    |                         |
| For>400 To 600, Deduct   | -20.11                    |                         |
| For>600 To 750, Deduct   | -26.82                    |                         |
| For>750, Deduct  | -34.84                    |                         |
| 33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush .....                       | 290.02                    |                         |
| For>100 To 250, Deduct   | -8.39                     |                         |
| For>250 To 400, Deduct   | -15.64                    |                         |
| For>400 To 600, Deduct   | -23.46                    |                         |
| For>600 To 750, Deduct   | -31.28                    |                         |
| For>750, Deduct  | -40.58                    |                         |
| 33 11 13 00-0059 LB Steel Well Casing, Furnish And Install .....                       | 1.47                      |                         |
| For>100 To 250, Deduct   | -0.05                     |                         |
| For>250 To 400, Deduct   | -0.09                     |                         |
| For>400 To 600, Deduct   | -0.13                     |                         |
| For>600 To 750, Deduct   | -0.18                     |                         |
| For>750, Deduct  | -0.24                     |                         |
| <b>33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded</b> (33 11 13 00-0048) |                           |                         |
| 33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush .....              | 104.97                    |                         |
| For>100 To 250, Deduct   | -2.84                     |                         |
| For>250 To 400, Deduct   | -5.46                     |                         |
| For>400 To 600, Deduct   | -8.19                     |                         |
| For>600 To 750, Deduct   | -10.92                    |                         |
| For>750, Deduct  | -13.92                    |                         |
| 33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush .....              | 158.35                    |                         |
| For>100 To 250, Deduct   | -4.22                     |                         |
| For>250 To 400, Deduct   | -8.18                     |                         |
| For>400 To 600, Deduct   | -12.27                    |                         |
| For>600 To 750, Deduct   | -16.36                    |                         |
| For>750, Deduct  | -20.80                    |                         |
| 33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush .....             | 221.65                    |                         |
| For>100 To 250, Deduct   | -5.88                     |                         |
| For>250 To 400, Deduct   | -11.42                    |                         |
| For>400 To 600, Deduct   | -17.13                    |                         |
| For>600 To 750, Deduct   | -22.84                    |                         |
| For>750, Deduct  | -28.99                    |                         |
| 33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush .....             | 257.65                    |                         |
| For>100 To 250, Deduct   | -6.84                     |                         |
| For>250 To 400, Deduct   | -13.28                    |                         |
| For>400 To 600, Deduct   | -19.92                    |                         |
| For>600 To 750, Deduct   | -26.57                    |                         |
| For>750, Deduct  | -33.73                    |                         |
| <b>33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring</b> (33 11 13 00-0048)    |                           |                         |
| 33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded .....            | 231.76                    |                         |
| For>100 To 250, Deduct   | -6.38                     |                         |
| For>250 To 400, Deduct   | -12.18                    |                         |
| For>400 To 600, Deduct   | -18.27                    |                         |
| For>600 To 750, Deduct   | -24.36                    |                         |
| For>750, Deduct  | -31.21                    |                         |
| 33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded .....            | 268.62                    |                         |
| For>100 To 250, Deduct   | -7.39                     |                         |
| For>250 To 400, Deduct   | -14.11                    |                         |
| For>400 To 600, Deduct   | -21.16                    |                         |
| For>600 To 750, Deduct   | -28.21                    |                         |
| For>750, Deduct  | -36.14                    |                         |



|                            |              |           |
|----------------------------|--------------|-----------|
| <b>Utilities</b>           | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>     | <b>33 10</b> |           |
| <b>Groundwater Sources</b> | <b>33 11</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded .....                                 | 323.51                    |                         |
| For >100 To 250, Deduct   | -8.85                     |                         |
| For >250 To 400, Deduct   | -16.93                    |                         |
| For >400 To 600, Deduct   | -25.40                    |                         |
| For >600 To 750, Deduct   | -33.87                    |                         |
| For >750, Deduct  | -43.32                    |                         |
| 33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded .....                                 | 370.50                    |                         |
| For >100 To 250, Deduct   | -10.13                    |                         |
| For >250 To 400, Deduct   | -19.39                    |                         |
| For >400 To 600, Deduct   | -29.08                    |                         |
| For >600 To 750, Deduct   | -38.78                    |                         |
| For >750, Deduct  | -49.60                    |                         |
| 33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded .....                                 | 408.63                    |                         |
| For >100 To 250, Deduct   | -11.21                    |                         |
| For >250 To 400, Deduct   | -21.42                    |                         |
| For >400 To 600, Deduct   | -32.13                    |                         |
| For >600 To 750, Deduct   | -42.84                    |                         |
| For >750, Deduct  | -54.84                    |                         |
| 33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded .....                                 | 537.03                    |                         |
| For >100 To 250, Deduct   | -14.61                    |                         |
| For >250 To 400, Deduct   | -28.03                    |                         |
| For >400 To 600, Deduct   | -42.05                    |                         |
| For >600 To 750, Deduct   | -56.06                    |                         |
| For >750, Deduct  | -71.61                    |                         |
| 33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded .....                                 | 708.64                    |                         |
| For >100 To 250, Deduct   | -19.19                    |                         |
| For >250 To 400, Deduct   | -36.91                    |                         |
| For >400 To 600, Deduct   | -55.36                    |                         |
| For >600 To 750, Deduct   | -73.81                    |                         |
| For >750, Deduct  | -94.19                    |                         |
| <b>33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80</b> <small>(33 11 13 00-0048)</small> |                           |                         |
| 33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing .....   | 88.33                     |                         |
| For >100 To 250, Deduct   | -2.38                     |                         |
| For >250 To 400, Deduct   | -4.59                     |                         |
| For >400 To 600, Deduct   | -6.88                     |                         |
| For >600 To 750, Deduct   | -9.17                     |                         |
| For >750, Deduct  | -11.68                    |                         |
| 33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing .....   | 140.48                    |                         |
| For >100 To 250, Deduct   | -3.78                     |                         |
| For >250 To 400, Deduct   | -7.29                     |                         |
| For >400 To 600, Deduct   | -10.93                    |                         |
| For >600 To 750, Deduct   | -14.58                    |                         |
| For >750, Deduct  | -18.56                    |                         |
| 33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing .....  | 212.20                    |                         |
| For >100 To 250, Deduct   | -5.71                     |                         |
| For >250 To 400, Deduct   | -11.01                    |                         |
| For >400 To 600, Deduct   | -16.52                    |                         |
| For >600 To 750, Deduct   | -22.02                    |                         |
| For >750, Deduct  | -28.05                    |                         |
| 33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing .....  | 249.81                    |                         |
| For >100 To 250, Deduct   | -6.73                     |                         |
| For >250 To 400, Deduct   | -12.98                    |                         |
| For >400 To 600, Deduct   | -19.46                    |                         |
| For >600 To 750, Deduct   | -25.95                    |                         |
| For >750, Deduct  | -33.07                    |                         |
| <b>33 11 13 00-0078 Furnish And Install Well Screen Assembly</b> <small>(33 11 13 00-0001)</small>          |                           |                         |
| <b>33 11 13 00-0079 Stainless Steel Well Screen</b> <small>(33 11 13 00-0078)</small>                       |                           |                         |
| 33 11 13 00-0080 LF 2" Stainless Steel Well Screen .....  | 30.50                     | 1.69                    |
| For >100 To 250, Deduct   | -0.98                     |                         |
| For >250 To 400, Deduct   | -1.74                     |                         |
| For >400 To 600, Deduct   | -2.61                     |                         |
| For >600 To 750, Deduct   | -3.48                     |                         |
| For >750, Deduct  | -4.63                     |                         |
| 33 11 13 00-0081 LF 3" Stainless Steel Well Screen .....  | 50.00                     | 1.69                    |
| For >100 To 250, Deduct   | -1.48                     |                         |
| For >250 To 400, Deduct   | -2.73                     |                         |
| For >400 To 600, Deduct   | -4.10                     |                         |
| For >600 To 750, Deduct   | -5.47                     |                         |
| For >750, Deduct  | -7.14                     |                         |
| 33 11 13 00-0082 LF 4" Stainless Steel Well Screen .....  | 62.79                     | 2.53                    |
| For >100 To 250, Deduct   | -1.87                     |                         |
| For >250 To 400, Deduct   | -3.43                     |                         |
| For >400 To 600, Deduct   | -5.15                     |                         |
| For >600 To 750, Deduct   | -6.87                     |                         |
| For >750, Deduct  | -8.97                     |                         |
| 33 11 13 00-0083 LF 5" Stainless Steel Well Screen .....  | 79.71                     | 2.53                    |
| For >100 To 250, Deduct   | -2.34                     |                         |
| For >250 To 400, Deduct   | -4.34                     |                         |
| For >400 To 600, Deduct   | -6.51                     |                         |
| For >600 To 750, Deduct   | -8.67                     |                         |
| For >750, Deduct  | -11.30                    |                         |



|              |                            |
|--------------|----------------------------|
| <b>33</b>    | <b>Utilities</b>           |
| <b>33 10</b> | <b>Water Utilities</b>     |
| <b>33 11</b> | <b>Groundwater Sources</b> |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....   | 94.90                     | 3.37                    |
| For>100 To 250, Deduct  | -2.84                     |                         |
| For>250 To 400, Deduct  | -5.21                     |                         |
| For>400 To 600, Deduct  | -7.82                     |                         |
| For>600 To 750, Deduct  | -10.43                    |                         |
| For>750, Deduct   | -13.64                    |                         |
| 33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....   | 124.04                    | 4.22                    |
| For>100 To 250, Deduct  | -3.70                     |                         |
| For>250 To 400, Deduct  | -6.80                     |                         |
| For>400 To 600, Deduct  | -10.20                    |                         |
| For>600 To 750, Deduct  | -13.60                    |                         |
| For>750, Deduct   | -17.78                    |                         |
| 33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....  | 156.70                    | 6.75                    |
| For>100 To 250, Deduct  | -4.73                     |                         |
| For>250 To 400, Deduct  | -8.64                     |                         |
| For>400 To 600, Deduct  | -12.97                    |                         |
| For>600 To 750, Deduct  | -17.29                    |                         |
| For>750, Deduct   | -22.66                    |                         |
| 33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....  | 183.90                    | 8.43                    |
| For>100 To 250, Deduct  | -5.54                     |                         |
| For>250 To 400, Deduct  | -10.14                    |                         |
| For>400 To 600, Deduct  | -15.21                    |                         |
| For>600 To 750, Deduct  | -20.28                    |                         |
| For>750, Deduct   | -26.58                    |                         |
| 33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....  | 201.14                    | 9.28                    |
| For>100 To 250, Deduct  | -6.12                     |                         |
| For>250 To 400, Deduct  | -11.14                    |                         |
| For>400 To 600, Deduct  | -16.72                    |                         |
| For>600 To 750, Deduct  | -22.29                    |                         |
| For>750, Deduct   | -29.27                    |                         |
| 33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....  | 217.06                    | 10.96                   |
| For>100 To 250, Deduct  | -6.65                     |                         |
| For>250 To 400, Deduct  | -12.07                    |                         |
| For>400 To 600, Deduct  | -18.11                    |                         |
| For>600 To 750, Deduct  | -24.15                    |                         |
| For>750, Deduct   | -31.78                    |                         |
| 33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....  | 259.96                    | 12.65                   |
| For>100 To 250, Deduct  | -8.00                     |                         |
| For>250 To 400, Deduct  | -14.50                    |                         |
| For>400 To 600, Deduct  | -21.76                    |                         |
| For>600 To 750, Deduct  | -29.01                    |                         |
| For>750, Deduct   | -38.22                    |                         |
| 33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....  | 327.99                    | 16.01                   |
| For>100 To 250, Deduct  | -10.09                    |                         |
| For>250 To 400, Deduct  | -18.29                    |                         |
| For>400 To 600, Deduct  | -27.44                    |                         |
| For>600 To 750, Deduct  | -36.58                    |                         |
| For>750, Deduct   | -48.19                    |                         |
| 33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....  | 425.08                    | 21.07                   |
| For>100 To 250, Deduct  | -13.11                    |                         |
| For>250 To 400, Deduct  | -23.73                    |                         |
| For>400 To 600, Deduct  | -35.60                    |                         |
| For>600 To 750, Deduct  | -47.47                    |                         |
| For>750, Deduct   | -62.56                    |                         |
| 33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....  | 490.89                    | 24.45                   |
| For>100 To 250, Deduct  | -15.08                    |                         |
| For>250 To 400, Deduct  | -27.35                    |                         |
| For>400 To 600, Deduct  | -41.03                    |                         |
| For>600 To 750, Deduct  | -54.71                    |                         |
| For>750, Deduct   | -72.04                    |                         |
| <b>33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40</b> <small>(33 11 13 00-0078)</small> |                           |                         |
| 33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                              | 23.00                     |                         |
| For>100 To 250, Deduct  | -0.74                     |                         |
| For>250 To 400, Deduct  | -1.32                     |                         |
| For>400 To 600, Deduct  | -1.98                     |                         |
| For>600 To 750, Deduct  | -2.64                     |                         |
| For>750, Deduct   | -3.52                     |                         |
| For Schedule 80, Add  | 6.49                      |                         |
| 33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                              | 26.71                     |                         |
| For>100 To 250, Deduct  | -0.85                     |                         |
| For>250 To 400, Deduct  | -1.52                     |                         |
| For>400 To 600, Deduct  | -2.27                     |                         |
| For>600 To 750, Deduct  | -3.03                     |                         |
| For>750, Deduct   | -4.03                     |                         |
| For Schedule 80, Add  | 7.79                      |                         |
| 33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                                  | 35.65                     |                         |
| For>100 To 250, Deduct  | -1.21                     |                         |
| For>250 To 400, Deduct  | -2.11                     |                         |
| For>400 To 600, Deduct  | -3.16                     |                         |
| For>600 To 750, Deduct  | -4.21                     |                         |
| For>750, Deduct   | -5.68                     |                         |
| For Schedule 80, Add  | 9.09                      |                         |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Utilities</b>    | <b>33</b> | <b>CS</b> |
| Water Utilities     | 33 10     |           |
| Groundwater Sources | 33 11     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                 | 56.14                     |                         |
| For >100 To 250, Deduct  | -1.75                     |                         |
| For >250 To 400, Deduct  | -3.16                     |                         |
| For >400 To 600, Deduct  | -4.73                     |                         |
| For >600 To 750, Deduct  | -6.31                     |                         |
| For >750, Deduct   | -8.34                     |                         |
| For Schedule 80, Add   | 16.88                     |                         |
| 33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                 | 70.55                     |                         |
| For >100 To 250, Deduct  | -2.20                     |                         |
| For >250 To 400, Deduct  | -3.97                     |                         |
| For >400 To 600, Deduct  | -5.95                     |                         |
| For >600 To 750, Deduct  | -7.94                     |                         |
| For >750, Deduct   | -10.49                    |                         |
| For Schedule 80, Add   | 21.17                     |                         |
| 33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                 | 89.17                     |                         |
| For >100 To 250, Deduct  | -2.75                     |                         |
| For >250 To 400, Deduct  | -4.98                     |                         |
| For >400 To 600, Deduct  | -7.47                     |                         |
| For >600 To 750, Deduct  | -9.97                     |                         |
| For >750, Deduct   | -13.14                    |                         |
| For Schedule 80, Add   | 27.27                     |                         |
| 33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                 | 94.55                     |                         |
| For >100 To 250, Deduct  | -3.06                     |                         |
| For >250 To 400, Deduct  | -5.43                     |                         |
| For >400 To 600, Deduct  | -8.14                     |                         |
| For >600 To 750, Deduct  | -10.85                    |                         |
| For >750, Deduct   | -14.48                    |                         |
| For Schedule 80, Add   | 26.62                     |                         |
| 33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....                 | 139.70                    |                         |
| For >100 To 250, Deduct  | -4.39                     |                         |
| For >250 To 400, Deduct  | -7.88                     |                         |
| For >400 To 600, Deduct  | -11.82                    |                         |
| For >600 To 750, Deduct  | -15.76                    |                         |
| For >750, Deduct   | -20.86                    |                         |
| For Schedule 80, Add   | 41.56                     |                         |
| <b>33 11 13 00-0103 Furnish And Install Gravel Pack Material</b> <small>(33 11 13 00-0001)</small> |                           |                         |
| Note: Quantity is based on 3" space between wall and the casing or well screen.                    |                           |                         |
| <b>33 11 13 00-0104 Artificial Gravel Pack</b> <small>(33 11 13 00-0103)</small>                   |                           |                         |
| Note: Excludes casing.   |                           |                         |
| 33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....                              | 17.59                     |                         |
| For >100 To 250, Deduct  | -0.68                     |                         |
| For >250 To 400, Deduct  | -1.12                     |                         |
| For >400 To 600, Deduct  | -1.68                     |                         |
| For >600 To 750, Deduct  | -2.24                     |                         |
| For >750, Deduct   | -3.12                     |                         |
| 33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....                              | 25.98                     |                         |
| For >100 To 250, Deduct  | -1.03                     |                         |
| For >250 To 400, Deduct  | -1.68                     |                         |
| For >400 To 600, Deduct  | -2.52                     |                         |
| For >600 To 750, Deduct  | -3.36                     |                         |
| For >750, Deduct   | -4.69                     |                         |
| 33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....                             | 36.21                     |                         |
| For >100 To 250, Deduct  | -1.47                     |                         |
| For >250 To 400, Deduct  | -2.38                     |                         |
| For >400 To 600, Deduct  | -3.57                     |                         |
| For >600 To 750, Deduct  | -4.75                     |                         |
| For >750, Deduct   | -6.68                     |                         |
| 33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....                             | 46.40                     |                         |
| For >100 To 250, Deduct  | -1.86                     |                         |
| For >250 To 400, Deduct  | -3.02                     |                         |
| For >400 To 600, Deduct  | -4.53                     |                         |
| For >600 To 750, Deduct  | -6.05                     |                         |
| For >750, Deduct   | -8.47                     |                         |
| 33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....                             | 57.20                     |                         |
| For >100 To 250, Deduct  | -2.27                     |                         |
| For >250 To 400, Deduct  | -3.70                     |                         |
| For >400 To 600, Deduct  | -5.55                     |                         |
| For >600 To 750, Deduct  | -7.40                     |                         |
| For >750, Deduct   | -10.34                    |                         |
| 33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....                             | 74.01                     |                         |
| For >100 To 250, Deduct  | -2.89                     |                         |
| For >250 To 400, Deduct  | -4.74                     |                         |
| For >400 To 600, Deduct  | -7.11                     |                         |
| For >600 To 750, Deduct  | -9.47                     |                         |
| For >750, Deduct   | -13.19                    |                         |
| 33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....                             | 84.86                     |                         |
| For >100 To 250, Deduct  | -3.29                     |                         |
| For >250 To 400, Deduct  | -5.42                     |                         |
| For >400 To 600, Deduct  | -8.12                     |                         |
| For >600 To 750, Deduct  | -10.83                    |                         |
| For >750, Deduct   | -15.06                    |                         |

|              |                            |
|--------------|----------------------------|
| <b>33</b>    | <b>Utilities</b>           |
| <b>33 10</b> | <b>Water Utilities</b>     |
| <b>33 11</b> | <b>Groundwater Sources</b> |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....   | 100.81                    |                         |
| For>100 To 250, Deduct   | -3.95                     |                         |
| For>250 To 400, Deduct   | -6.47                     |                         |
| For>400 To 600, Deduct   | -9.71                     |                         |
| For>600 To 750, Deduct   | -12.94                    |                         |
| For>750, Deduct  | -18.04                    |                         |
| 33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....   | 114.07                    |                         |
| For>100 To 250, Deduct   | -4.49                     |                         |
| For>250 To 400, Deduct   | -7.35                     |                         |
| For>400 To 600, Deduct   | -11.02                    |                         |
| For>600 To 750, Deduct   | -14.69                    |                         |
| For>750, Deduct  | -20.50                    |                         |
| 33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....   | 122.85                    |                         |
| For>100 To 250, Deduct   | -4.79                     |                         |
| For>250 To 400, Deduct   | -7.86                     |                         |
| For>400 To 600, Deduct   | -11.79                    |                         |
| For>600 To 750, Deduct   | -15.72                    |                         |
| For>750, Deduct  | -21.87                    |                         |
| 33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....   | 146.56                    |                         |
| For>100 To 250, Deduct   | -5.77                     |                         |
| For>250 To 400, Deduct   | -9.44                     |                         |
| For>400 To 600, Deduct   | -14.16                    |                         |
| For>600 To 750, Deduct   | -18.88                    |                         |
| For>750, Deduct  | -26.34                    |                         |
| 33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....   | 169.66                    |                         |
| For>100 To 250, Deduct   | -6.81                     |                         |
| For>250 To 400, Deduct   | -11.06                    |                         |
| For>400 To 600, Deduct   | -16.58                    |                         |
| For>600 To 750, Deduct   | -22.11                    |                         |
| For>750, Deduct  | -30.98                    |                         |
| <b>33 11 13 00-0117 Develop Well</b> <small>(33 11 13 00-0001)</small>   |                           |                         |
| Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal. |                           |                         |
| 33 11 13 00-0118 HR Develop Well.....  | 445.90                    |                         |
| <b>33 11 13 00-0119 Pump Test</b> <small>(33 11 13 00-0001)</small>  |                           |                         |
| Note: To determine water level and GPM flow rate.  |                           |                         |
| 33 11 13 00-0120 HR Pump Test Well.....  | 394.54                    |                         |
| <b>33 11 13 00-0121 Test Well</b> <small>(33 11 13 00-0001)</small>  |                           |                         |
| 33 11 13 00-0122 VLF 2-1/2" Diameter Test Well.....  | 105.07                    |                         |
| <b>33 11 13 00-0123 Surface Seal, Concrete Filled</b> <small>(33 11 13)</small>  |                           |                         |
| 33 11 13 00-0124 SF Surface Seal Well, Concrete Filled.....  | 37.48                     |                         |
| <b>33 11 13 00-0125 Other Water Well</b> <small>(33 11 13)</small>   |                           |                         |
| 33 11 13 00-0126 SF Patch Hole In Well Casing.....   | 92.19                     |                         |
| 33 11 13 00-0127 SF 1/2" Pressure Grout Well.....  | 2.88                      |                         |
| 33 11 13 00-0128 SF 1" Pressure Grout Well.....  | 4.82                      |                         |
| 33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....   | 5.27                      |                         |
| <b>33 11 13 00-0130 Sterilization Of Well</b> <small>(33 11 13)</small>  |                           |                         |
| 33 11 13 00-0131 EA Well Sterilization, Chlorine.....  | 1,526.48                  |                         |
| <b>33 11 13 00-0132 Submersible Well Pumps</b> <small>(33 11 13)</small>   |                           |                         |
| Note: Includes pump end, motor and control box.  |                           |                         |
| <b>33 11 13 00-0133 4" Submersible Well Pumps</b> <small>(33 11 13 00-0132)</small>                                    |                           |                         |
| <b>33 11 13 00-0134 Powder Coated Case And Cast Iron Ends</b> <small>(33 11 13 00-0133)</small>                        |                           |                         |
| 33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....               | 1,556.17                  | 565.01                  |
| 33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....               | 1,771.09                  | 626.24                  |
| 33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....                 | 1,965.94                  | 695.82                  |
| <b>33 11 13 00-0138 Stainless Steel Case And Ends</b> <small>(33 11 13 00-0133)</small>                                |                           |                         |
| 33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                     | 1,729.05                  | 556.66                  |
| 33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                     | 1,968.86                  | 626.24                  |
| 33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                       | 2,205.13                  | 695.82                  |
| 33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                   | 2,514.80                  | 765.41                  |
| 33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                       | 2,835.13                  | 834.99                  |
| 33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                       | 3,468.70                  | 974.15                  |
| 33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel.....                                       | 4,323.69                  | 1,113.32                |



|                     |           |           |
|---------------------|-----------|-----------|
| <b>Utilities</b>    | <b>33</b> | <b>CS</b> |
| Water Utilities     | 33 10     |           |
| Groundwater Sources | 33 11     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>33 11 13 00-0146</b> 6" Submersible Well Pumps <small>(33 11 13 00-0132)</small> |                           |                         |
| 33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel .....   | 4,313.17                  | 1,391.65                |
| 33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel ..... | 4,947.91                  | 1,530.81                |
| 33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel .....  | 5,605.16                  | 1,669.98                |
| 33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel .....  | 6,732.48                  | 1,948.32                |

**33 14 Water Utility Transmission and Distribution** (33 10)

**33 14 11 Water Utility Transmission Piping** (33 14)

See CSI section 33 14 13 00-0000 for water utility transmission piping.

**33 14 13 Public Water Utility Distribution Piping** (33 14)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill.

**33 14 13 13 Ductile Iron Public Water Utility Distribution Piping** (33 14 13)

**33 14 13 13-0001 Ductile Iron Piping** (33 14 13 13)

**33 14 13 13-0002 Mechanical Joint Ductile Iron Piping** (33 14 13 13-0001)

Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0500 for bolts and gaskets.

**33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe** (33 14 13 13-0002)

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

|   |       |       |
|---|-------|-------|
| 33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe..... | 44.64 | 13.93 |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                  | 16.50 |       |
| For Cement Mortar Lining (CML), Add                                       | 2.36  |       |
| Note: ANSI/AWWA C104/A21.4  |       |       |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                               | 12.73 |       |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 4.24  |       |
| Note: ANSI/AWWA C104/A21.4  |       |       |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 1.77  |       |
| Note: ANSI/AWWA C151/A21.51   |       |       |
| For >1,000, Deduct  | -2.23 |       |
| For Class 52, Add   | 7.48  |       |
| For Class 53, Add   | 13.42 |       |
| For Class 54, Add   | 19.12 |       |
| For Class 55, Add   | 22.02 |       |
| For Class 56, Add   | 24.88 |       |
| 33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe..... | 48.35 | 14.83 |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                  | 18.12 |       |
| For Cement Mortar Lining (CML), Add                                       | 2.59  |       |
| Note: ANSI/AWWA C104/A21.4  |       |       |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                               | 13.98 |       |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 4.66  |       |
| Note: ANSI/AWWA C104/A21.4  |       |       |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 1.94  |       |
| Note: ANSI/AWWA C151/A21.51   |       |       |
| For >1,000, Deduct  | -2.42 |       |
| For Class 51, Add   | 3.81  |       |
| For Class 52, Add   | 8.20  |       |
| For Class 53, Add   | 14.72 |       |
| For Class 54, Add   | 20.97 |       |
| For Class 55, Add   | 24.15 |       |
| For Class 56, Add   | 27.28 |       |
| 33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe..... | 51.62 | 15.55 |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                  | 19.67 |       |
| For Cement Mortar Lining (CML), Add                                       | 2.81  |       |
| Note: ANSI/AWWA C104/A21.4  |       |       |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                               | 15.17 |       |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 5.06  |       |
| Note: ANSI/AWWA C104/A21.4  |       |       |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 2.11  |       |
| Note: ANSI/AWWA C151/A21.51   |       |       |
| For >1,000, Deduct  | -2.58 |       |
| For Class 51, Add   | 4.12  |       |
| For Class 52, Add   | 8.88  |       |
| For Class 53, Add   | 15.94 |       |
| For Class 54, Add   | 22.71 |       |
| For Class 55, Add   | 26.16 |       |
| For Class 56, Add   | 29.54 |       |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....  | 60.45                     | 16.17                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 25.17                     |                         |
| For Cement Mortar Lining (CML), Add  | 3.60                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 19.41                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 6.47                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 2.70                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -3.02                     |                         |
| For Class 51, Add  | 5.21                      |                         |
| For Class 52, Add  | 11.22                     |                         |
| For Class 53, Add  | 20.18                     |                         |
| For Class 54, Add  | 28.78                     |                         |
| For Class 55, Add  | 33.11                     |                         |
| For Class 56, Add  | 37.37                     |                         |
| 33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe..... | 82.04                     | 23.28                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 28.06                     |                         |
| For Cement Mortar Lining (CML), Add  | 4.68                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 23.39                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 8.42                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 3.51                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -4.10                     |                         |
| For Class 51, Add  | 6.82                      |                         |
| For Class 52, Add  | 14.68                     |                         |
| For Class 53, Add  | 26.39                     |                         |
| For Class 54, Add  | 37.61                     |                         |
| For Class 55, Add  | 43.29                     |                         |
| For Class 56, Add  | 48.88                     |                         |
| 33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe..... | 98.92                     | 25.87                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 29.87                     |                         |
| For Cement Mortar Lining (CML), Add  | 5.97                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 23.89                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 10.75                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 4.48                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -4.95                     |                         |
| For Class 51, Add  | 8.63                      |                         |
| For Class 52, Add  | 18.61                     |                         |
| For Class 53, Add  | 33.48                     |                         |
| For Class 54, Add  | 47.74                     |                         |
| For Class 55, Add  | 54.92                     |                         |
| For Class 56, Add  | 61.98                     |                         |
| 33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe..... | 118.16                    | 29.04                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 32.59                     |                         |
| For Cement Mortar Lining (CML), Add  | 7.41                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 25.18                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 13.33                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 5.56                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -5.91                     |                         |
| For Class 51, Add  | 10.65                     |                         |
| For Class 52, Add  | 22.96                     |                         |
| For Class 53, Add  | 41.35                     |                         |
| For Class 54, Add  | 58.97                     |                         |
| For Class 55, Add  | 67.83                     |                         |
| For Class 56, Add  | 76.52                     |                         |
| 33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe..... | 133.42                    | 33.27                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 34.05                     |                         |
| For Cement Mortar Lining (CML), Add  | 8.30                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 25.74                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 14.95                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 6.23                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -6.67                     |                         |
| For Class 51, Add  | 11.95                     |                         |
| For Class 52, Add  | 25.76                     |                         |
| For Class 53, Add  | 46.39                     |                         |
| For Class 54, Add  | 66.16                     |                         |
| For Class 55, Add  | 76.10                     |                         |
| For Class 56, Add  | 85.86                     |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe..... | 165.29                    | 38.80                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 43.67                     |                         |
| For Cement Mortar Lining (CML), Add  | 10.65                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 33.02                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 19.17                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 7.99                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -8.26                     |                         |
| For Class 51, Add  | 15.25                     |                         |
| For Class 52, Add  | 32.90                     |                         |
| For Class 53, Add  | 59.28                     |                         |
| For Class 54, Add  | 84.56                     |                         |
| For Class 55, Add  | 97.23                     |                         |
| For Class 56, Add  | 109.68                    |                         |
| 33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe..... | 187.83                    | 46.56                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 44.57                     |                         |
| For Cement Mortar Lining (CML), Add  | 11.73                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 32.84                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 21.11                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 8.80                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -9.39                     |                         |
| For Class 51, Add  | 16.87                     |                         |
| For Class 52, Add  | 36.37                     |                         |
| For Class 53, Add  | 65.50                     |                         |
| For Class 54, Add  | 93.41                     |                         |
| For Class 55, Add  | 107.44                    |                         |
| For Class 56, Add  | 121.22                    |                         |
| 33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe..... | 245.59                    | 58.20                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 48.80                     |                         |
| For Cement Mortar Lining (CML), Add  | 15.74                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                                | 33.06                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 28.33                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 11.81                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -12.28                    |                         |
| For Class 51, Add  | 22.56                     |                         |
| For Class 52, Add  | 48.66                     |                         |
| For Class 53, Add  | 87.66                     |                         |
| For Class 54, Add  | 125.05                    |                         |
| For Class 55, Add  | 143.80                    |                         |
| For Class 56, Add  | 162.21                    |                         |
| 33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe..... | 316.03                    | 62.67                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 68.81                     |                         |
| For Cement Mortar Lining (CML), Add  | 22.20                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 39.95                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 16.65                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -15.80                    |                         |
| For Class 51, Add  | 31.43                     |                         |
| For Class 52, Add  | 67.85                     |                         |
| For Class 53, Add  | 122.48                    |                         |
| For Class 54, Add  | 174.82                    |                         |
| For Class 55, Add  | 200.88                    |                         |
| For Class 56, Add  | 226.47                    |                         |
| 33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe..... | 377.50                    | 66.55                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                   | 86.04                     |                         |
| For Cement Mortar Lining (CML), Add  | 27.76                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                 | 49.96                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                             | 20.82                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -18.88                    |                         |
| For Class 51, Add  | 39.08                     |                         |
| For Class 52, Add  | 84.41                     |                         |
| For Class 53, Add  | 152.49                    |                         |
| For Class 54, Add  | 217.72                    |                         |
| For Class 55, Add  | 250.08                    |                         |
| For Class 56, Add  | 281.86                    |                         |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....               | 463.36                    | 70.43                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                                 | 110.84                    |                         |
| For Cement Mortar Lining (CML), Add  | 35.76                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 64.36                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 26.82                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -23.17                    |                         |
| For Class 51, Add  | 50.06                     |                         |
| For Class 52, Add  | 108.16                    |                         |
| For Class 53, Add  | 195.58                    |                         |
| For Class 54, Add  | 279.32                    |                         |
| For Class 55, Add  | 320.72                    |                         |
| For Class 56, Add  | 361.37                    |                         |
| 33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....               | 567.43                    | 74.43                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                                 | 141.28                    |                         |
| For Cement Mortar Lining (CML), Add  | 45.57                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 82.03                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 34.18                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -28.37                    |                         |
| For Class 51, Add  | 63.51                     |                         |
| For Class 52, Add  | 137.28                    |                         |
| For Class 53, Add  | 248.42                    |                         |
| For Class 54, Add  | 354.86                    |                         |
| For Class 55, Add  | 407.35                    |                         |
| For Class 56, Add  | 458.88                    |                         |
| <b>33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)</b> |                           |                         |
| 33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow .....               | 188.03                    | 43.98                   |
| For Cement Mortar Lining (CML), Add  | 12.14                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 21.85                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 9.10                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow .....               | 211.72                    | 52.55                   |
| For Cement Mortar Lining (CML), Add  | 13.21                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 23.78                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 9.91                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow .....               | 333.60                    | 77.67                   |
| For Cement Mortar Lining (CML), Add  | 21.60                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 38.88                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 16.20                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow .....               | 453.81                    | 92.12                   |
| For Cement Mortar Lining (CML), Add  | 31.42                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 56.55                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 23.56                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow .....              | 656.20                    | 103.22                  |
| For Cement Mortar Lining (CML), Add  | 49.98                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 89.97                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 37.49                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow .....              | 856.39                    | 121.10                  |
| For Cement Mortar Lining (CML), Add  | 67.30                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 121.14                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 50.47                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow .....              | 1,332.15                  | 135.80                  |
| For Cement Mortar Lining (CML), Add  | 112.64                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 202.75                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 84.48                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                        | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|---|----------------------|
| 33 14 13 13-0027        | EA    |     |     | 16" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,764.99<br>152.99<br>275.37<br>114.74        | 155.20               |
| 33 14 13 13-0028        | EA    |     |     | 18" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,171.39<br>184.22<br>331.60<br>138.17        | 217.27               |
| 33 14 13 13-0029        | EA    |     |     | 20" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,980.27<br>256.88<br>462.38<br>192.66        | 271.59               |
| 33 14 13 13-0030        | EA    |     |     | 24" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 4,382.48<br>383.44<br>690.20<br>287.58        | 361.64               |
| 33 14 13 13-0031        | EA    |     |     | 30" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 6,741.16<br>615.33<br>1,107.60<br>461.50      | 387.99               |
| 33 14 13 13-0032        | EA    |     |     | 36" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 10,230.24<br>962.00<br>1,731.60<br>721.50     | 402.80               |
| 33 14 13 13-0033        | EA    |     |     | 42" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 17,201.71<br>1,649.63<br>2,969.33<br>1,237.22 | 465.58               |
| 33 14 13 13-0034        | EA    |     |     | 48" Mechanical Joint Ductile Iron 90 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 22,746.71<br>2,199.63<br>3,959.33<br>1,649.72 | 495.33               |
| <b>33 14 13 13-0035</b> |       |     |     | <b>Mechanical Joint Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0002)</small>  |   |                      |
| 33 14 13 13-0036        | EA    |     |     | 3" Mechanical Joint Ductile Iron 45 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 175.53<br>10.89<br>19.60<br>8.17              | 43.98                |
| 33 14 13 13-0037        | EA    |     |     | 4" Mechanical Joint Ductile Iron 45 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 188.51<br>10.89<br>19.60<br>8.17              | 52.55                |
| 33 14 13 13-0038        | EA    |     |     | 6" Mechanical Joint Ductile Iron 45 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 292.54<br>17.49<br>31.49<br>13.12             | 77.67                |
| 33 14 13 13-0039        | EA    |     |     | 8" Mechanical Joint Ductile Iron 45 Degree Elbow .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 394.90<br>25.53<br>45.95<br>19.15             | 92.12                |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 529.46                    | 103.22                  |
| For Cement Mortar Lining (CML), Add   | 37.31                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 67.16                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 27.98                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 740.36                    | 121.10                  |
| For Cement Mortar Lining (CML), Add   | 55.70                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 100.25                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 41.77                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 1,082.23                  | 135.80                  |
| For Cement Mortar Lining (CML), Add   | 87.65                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 157.77                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 65.74                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 1,327.63                  | 155.20                  |
| For Cement Mortar Lining (CML), Add   | 109.25                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 196.65                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 81.94                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 1,896.49                  | 217.27                  |
| For Cement Mortar Lining (CML), Add   | 156.73                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 282.12                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 117.55                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 2,085.92                  | 271.59                  |
| For Cement Mortar Lining (CML), Add   | 167.44                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 301.40                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 125.58                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 3,091.84                  | 361.64                  |
| For Cement Mortar Lining (CML), Add   | 254.38                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 457.88                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 190.79                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 5,755.77                  | 387.99                  |
| For Cement Mortar Lining (CML), Add   | 516.79                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 930.23                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 387.59                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 8,166.64                  | 402.80                  |
| For Cement Mortar Lining (CML), Add   | 755.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,360.15                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 566.73                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 12,315.84                 | 465.58                  |
| For Cement Mortar Lining (CML), Add   | 1,161.04                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,089.88                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 870.78                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow .....           | 15,965.04                 | 495.33                  |
| For Cement Mortar Lining (CML), Add   | 1,521.46                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,738.62                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 1,141.09                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002) |                           |                         |
| 33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....        | 152.33                    | 43.98                   |
| For Cement Mortar Lining (CML), Add   | 8.57                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 15.42                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 6.43                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|          | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                   | DEMOLITION UNIT COST |
|----------|---------|-----|-----|---|--|----------------------|
| 33 14 13 | 13-0053 | EA  |     | 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 183.16<br>10.35<br>18.64<br>7.77         | 52.55                |
| 33 14 13 | 13-0054 | EA  |     | 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 278.26<br>16.07<br>28.92<br>12.05        | 77.67                |
| 33 14 13 | 13-0055 | EA  |     | 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 389.55<br>24.99<br>44.99<br>18.74        | 92.12                |
| 33 14 13 | 13-0056 | EA  |     | 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 527.67<br>37.13<br>66.83<br>27.85        | 103.22               |
| 33 14 13 | 13-0057 | EA  |     | 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 670.74<br>48.73<br>87.72<br>36.55        | 121.10               |
| 33 14 13 | 13-0058 | EA  |     | 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,092.94<br>88.72<br>159.70<br>66.54     | 135.80               |
| 33 14 13 | 13-0059 | EA  |     | 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,283.01<br>104.79<br>188.62<br>78.59    | 155.20               |
| 33 14 13 | 13-0060 | EA  |     | 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,616.22<br>128.71<br>231.67<br>96.53    | 217.27               |
| 33 14 13 | 13-0061 | EA  |     | 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,160.90<br>174.94<br>314.90<br>131.21   | 271.59               |
| 33 14 13 | 13-0062 | EA  |     | 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,895.47<br>234.74<br>422.54<br>176.06   | 361.64               |
| 33 14 13 | 13-0063 | EA  |     | 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,918.55<br>433.07<br>779.53<br>324.80   | 387.99               |
| 33 14 13 | 13-0064 | EA  |     | 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,958.12<br>634.79<br>1,142.62<br>476.09 | 402.80               |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....              | 10,289.73                 | 465.58                  |
| For Cement Mortar Lining (CML), Add  | 958.43                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 1,725.18                  |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 718.82                    |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....              | 13,230.23                 | 495.33                  |
| For Cement Mortar Lining (CML), Add  | 1,247.98                  |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 2,246.36                  |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 935.98                    |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| <b>33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow</b> (33 14 13 13-0002) |                           |                         |
| 33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....               | 152.33                    | 43.98                   |
| For Cement Mortar Lining (CML), Add  | 8.57                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 15.42                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 6.43                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....               | 177.80                    | 52.55                   |
| For Cement Mortar Lining (CML), Add  | 9.82                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 17.67                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 7.36                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....               | 283.62                    | 77.67                   |
| For Cement Mortar Lining (CML), Add  | 16.60                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 29.88                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 12.45                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....               | 366.34                    | 92.12                   |
| For Cement Mortar Lining (CML), Add  | 22.67                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 40.81                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 17.00                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....              | 524.10                    | 103.22                  |
| For Cement Mortar Lining (CML), Add  | 36.77                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 66.19                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 27.58                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....              | 640.39                    | 121.10                  |
| For Cement Mortar Lining (CML), Add  | 45.70                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 82.26                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 34.27                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....              | 1,217.90                  | 135.80                  |
| For Cement Mortar Lining (CML), Add  | 101.22                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 182.19                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 75.91                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....              | 1,343.70                  | 155.20                  |
| For Cement Mortar Lining (CML), Add  | 110.86                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 199.54                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 83.14                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....              | 1,955.38                  | 217.27                  |
| For Cement Mortar Lining (CML), Add  | 162.62                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 292.72                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 121.97                    |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....              | 2,059.15                  | 271.59                  |
| For Cement Mortar Lining (CML), Add  | 164.77                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 296.58                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 123.58                    |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |



|  |  |              |           |
|--|--|--------------|-----------|
|  | <b>Utilities</b>                                   | <b>33</b>    |           |
|  | <b>Water Utilities</b>                             | <b>33 10</b> | <b>CS</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR           | CSI            | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                      | DEMOLITION UNIT COST |
|-----------------|----------------|-----|---|---|----------------------|
| 33 14 13        | 13-0078        | EA  | 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                 | 2,745.52<br>219.75<br>395.55<br>164.81      | 361.64               |
| 33 14 13        | 13-0079        | EA  | 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                 | 4,997.10<br>440.93<br>793.67<br>330.69      | 387.99               |
| 33 14 13        | 13-0080        | EA  | 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                 | 6,636.80<br>602.66<br>1,084.78<br>451.99    | 402.80               |
| 33 14 13        | 13-0081        | EA  | 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                 | 9,852.37<br>914.70<br>1,646.45<br>686.02    | 465.58               |
| 33 14 13        | 13-0082        | EA  | 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                 | 13,144.55<br>1,239.41<br>2,230.94<br>929.56 | 495.33               |
| <b>33 14 13</b> | <b>13-0083</b> |     | <b>Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0002)</small>  |   |                      |
| 33 14 13        | 13-0084        | EA  | 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 193.38<br>12.67<br>22.81<br>9.51            | 43.98                |
| 33 14 13        | 13-0085        | EA  | 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 236.71<br>15.71<br>28.28<br>11.78           | 52.55                |
| 33 14 13        | 13-0086        | EA  | 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 378.23<br>26.06<br>46.91<br>19.55           | 77.67                |
| 33 14 13        | 13-0087        | EA  | 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 512.72<br>37.31<br>67.16<br>27.98           | 92.12                |
| 33 14 13        | 13-0088        | EA  | 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 741.89<br>58.55<br>105.39<br>43.91          | 103.22               |
| 33 14 13        | 13-0089        | EA  | 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 949.22<br>76.58<br>137.85<br>57.44          | 121.10               |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 1,630.27                  | 135.80                  |
| For Cement Mortar Lining (CML), Add   | 142.45                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 256.42                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 106.84                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 2,491.53                  | 155.20                  |
| For Cement Mortar Lining (CML), Add   | 225.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 406.15                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 169.23                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 2,892.57                  | 217.27                  |
| For Cement Mortar Lining (CML), Add   | 256.34                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 461.42                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 192.26                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 3,929.95                  | 271.59                  |
| For Cement Mortar Lining (CML), Add   | 351.85                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 633.32                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 263.89                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 4,775.20                  | 361.64                  |
| For Cement Mortar Lining (CML), Add   | 422.72                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 760.89                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 317.04                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 8,911.86                  | 387.99                  |
| For Cement Mortar Lining (CML), Add   | 832.40                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,498.32                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 624.30                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....                              | 15,949.77                 | 402.80                  |
| For Cement Mortar Lining (CML), Add   | 1,533.95                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,761.12                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 1,150.47                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| <b>33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0002)</small> |                           |                         |
| 33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....                               | 177.32                    | 43.98                   |
| For Cement Mortar Lining (CML), Add   | 11.07                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 19.92                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 8.30                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....                               | 193.87                    | 52.55                   |
| For Cement Mortar Lining (CML), Add   | 11.43                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 20.57                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 8.57                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....                               | 312.18                    | 77.67                   |
| For Cement Mortar Lining (CML), Add   | 19.46                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 35.02                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 14.59                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....                               | 452.03                    | 92.12                   |
| For Cement Mortar Lining (CML), Add   | 31.24                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 56.23                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 23.43                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                     | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 620.50<br>46.41<br>83.54<br>34.81             | 103.22                  |
| 33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 843.89<br>66.05<br>118.89<br>49.54            | 121.10                  |
| 33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,442.83<br>123.71<br>222.68<br>92.78         | 135.80                  |
| 33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,196.99<br>196.19<br>353.13<br>147.14        | 155.20                  |
| 33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,594.46<br>226.53<br>407.76<br>169.90        | 217.27                  |
| 33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 3,369.42<br>295.79<br>532.43<br>221.85        | 271.59                  |
| 33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,234.31<br>368.63<br>663.53<br>276.47        | 361.64                  |
| 33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 7,828.30<br>724.05<br>1,303.28<br>543.03      | 387.99                  |
| 33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 13,955.79<br>1,334.56<br>2,402.20<br>1,000.92 | 402.80                  |
| <b>33 14 13 13-0111 Mechanical Joint Ductile Iron Tee</b> <small>(33 14 13 13-0002)</small>  |   |                         |
| 33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                            | 307.02<br>20.71<br>37.27<br>15.53             | 65.98                   |
| 33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                            | 318.79<br>20.71<br>37.27<br>15.53             | 73.73                   |
| 33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                            | 290.76<br>17.32<br>31.17<br>12.99             | 77.67                   |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee.....   | 387.43                    | 97.82                   |
| For Cement Mortar Lining (CML), Add                                  | 23.92                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 43.06                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 17.94                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee.....   | 445.30                    | 101.86                  |
| For Cement Mortar Lining (CML), Add                                  | 29.10                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 52.37                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 21.82                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....   | 485.11                    | 114.04                  |
| For Cement Mortar Lining (CML), Add                                  | 31.24                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 56.23                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 23.43                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....   | 516.25                    | 118.05                  |
| For Cement Mortar Lining (CML), Add                                  | 33.74                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 60.73                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 25.30                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....   | 586.39                    | 130.17                  |
| For Cement Mortar Lining (CML), Add                                  | 38.92                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 70.05                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 29.19                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....   | 678.98                    | 138.30                  |
| For Cement Mortar Lining (CML), Add                                  | 46.95                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 84.51                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 35.21                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....  | 712.06                    | 128.29                  |
| For Cement Mortar Lining (CML), Add                                  | 51.77                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 93.18                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 38.83                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....  | 713.64                    | 139.93                  |
| For Cement Mortar Lining (CML), Add                                  | 50.16                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 90.29                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 37.62                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....  | 811.09                    | 147.69                  |
| For Cement Mortar Lining (CML), Add                                  | 58.73                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 105.71                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 44.05                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee..... | 906.35                    | 155.20                  |
| For Cement Mortar Lining (CML), Add                                  | 67.12                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 120.82                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 50.34                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....  | 851.62                    | 143.81                  |
| For Cement Mortar Lining (CML), Add                                  | 63.37                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 114.07                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 47.53                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| 33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....  | 967.42                    | 155.44                  |
| For Cement Mortar Lining (CML), Add                                  | 73.19                     |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                           | 131.74                    |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                       | 54.89                     |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 1,188.05<br>94.08<br>169.34<br>70.56   | 163.21                  |
| 33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,272.59<br>101.40<br>182.51<br>76.05  | 170.72                  |
| 33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,207.59<br>93.72<br>168.69<br>70.29   | 178.48                  |
| 33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 1,288.39<br>101.40<br>182.51<br>76.05  | 181.13                  |
| 33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 1,434.03<br>114.78<br>206.61<br>86.09  | 188.90                  |
| 33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,830.98<br>153.34<br>276.02<br>115.01 | 196.39                  |
| 33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,956.98<br>164.77<br>296.58<br>123.58 | 204.15                  |
| 33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,888.97<br>156.02<br>280.83<br>117.01 | 217.04                  |
| 33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 1,637.57<br>130.85<br>235.53<br>98.14  | 217.26                  |
| 33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 1,761.92<br>142.10<br>255.77<br>106.57 | 225.03                  |
| 33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,051.74<br>169.94<br>305.90<br>127.46 | 232.52                  |
| 33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,245.60<br>188.15<br>338.67<br>141.11 | 240.28                  |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|--|--|-------------------------|
| 33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,702.40<br>231.89<br>417.40<br>173.92 | 253.13                  |
| 33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,554.83<br>214.39<br>385.91<br>160.79 | 271.23                  |
| 33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,274.24<br>185.30<br>333.53<br>138.97 | 278.05                  |
| 33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,439.53<br>200.65<br>361.16<br>150.49 | 285.81                  |
| 33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,640.12<br>219.57<br>395.23<br>164.68 | 293.32                  |
| 33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,839.32<br>238.31<br>428.97<br>178.74 | 301.08                  |
| 33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,921.24<br>244.56<br>440.21<br>183.42 | 313.91                  |
| 33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,118.20<br>261.52<br>470.74<br>196.14 | 331.99                  |
| 33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,651.59<br>310.25<br>558.46<br>232.69 | 362.35                  |
| 33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,689.16<br>208.50<br>375.30<br>156.38 | 398.73                  |
| 33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,747.34<br>213.14<br>383.66<br>159.86 | 406.50                  |
| 33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,992.54<br>236.53<br>425.75<br>177.40 | 414.00                  |



|          | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|----------|---------|-----|-----|---|------------------------|----------------------|
| 33 14 13 | 13-0151 | EA  |     | 20" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 3,236.37<br>259.74     | 421.76               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 467.52                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 194.80                 |                      |
| 33 14 13 | 13-0152 | EA  |     | 20" x 14" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 3,275.47<br>261.70     | 434.59               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 471.06                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 196.27                 |                      |
| 33 14 13 | 13-0153 | EA  |     | 20" x 16" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 3,324.26<br>263.84     | 452.66               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 474.91                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 197.88                 |                      |
| 33 14 13 | 13-0154 | EA  |     | 20" x 18" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 4,177.19<br>344.53     | 483.05               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 620.15                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 258.40                 |                      |
| 33 14 13 | 13-0155 | EA  |     | 20" x 20" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 3,683.09<br>285.98     | 543.42               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 514.76                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 214.48                 |                      |
| 33 14 13 | 13-0156 | EA  |     | 24" x 6" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 3,294.51<br>250.81     | 519.04               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 451.46                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 188.11                 |                      |
| 33 14 13 | 13-0157 | EA  |     | 24" x 8" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 3,338.42<br>254.02     | 527.54               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 457.24                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 190.52                 |                      |
| 33 14 13 | 13-0158 | EA  |     | 24" x 10" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 3,678.24<br>286.87     | 534.31               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 516.36                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 215.15                 |                      |
| 33 14 13 | 13-0159 | EA  |     | 24" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 3,770.31<br>294.90     | 542.07               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 530.82                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 221.18                 |                      |
| 33 14 13 | 13-0160 | EA  |     | 24" x 14" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 4,243.19<br>340.24     | 554.90               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 612.44                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 255.18                 |                      |
| 33 14 13 | 13-0161 | EA  |     | 24" x 16" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 4,582.97<br>371.48     | 572.96               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 668.67                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 278.61                 |                      |
| 33 14 13 | 13-0162 | EA  |     | 24" x 18" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i> | 5,207.40<br>429.32     | 603.36               |
|          |         |     |     | <i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i>  | 772.78                 |                      |
|          |         |     |     | <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 321.99                 |                      |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                 | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 5,771.88<br>476.63<br>857.93<br>357.47    | 663.71                  |
| 33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 5,341.77<br>424.50<br>764.10<br>318.38    | 723.88                  |
| 33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 5,717.20<br>478.95<br>862.11<br>359.21    | 612.29                  |
| 33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,023.09<br>508.40<br>915.12<br>381.30    | 619.79                  |
| 33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,329.40<br>537.86<br>968.14<br>403.39    | 627.55                  |
| 33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,766.57<br>579.63<br>1,043.33<br>434.72  | 640.40                  |
| 33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 7,240.22<br>624.26<br>1,123.66<br>468.19  | 852.03                  |
| 33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 7,436.22<br>639.25<br>1,150.65<br>479.44  | 688.85                  |
| 33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 7,736.51<br>660.14<br>1,188.25<br>495.10  | 749.20                  |
| 33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 8,129.34<br>690.31<br>1,242.55<br>517.73  | 809.35                  |
| 33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 10,189.86<br>889.88<br>1,601.79<br>667.41 | 852.03                  |
| 33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 5,976.77<br>506.08<br>910.95<br>379.56    | 604.52                  |



|  |  |              |
|--|--|--------------|
|  | <b>Utilities</b>                                   | <b>33</b>    |
|  | <b>Water Utilities</b>                             | <b>33 10</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |

CS

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                     | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 6,987.88<br>595.87<br>1,072.57<br>446.90      | 679.24                  |
| 33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 7,773.98<br>673.35<br>1,212.02<br>505.01      | 686.73                  |
| 33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 8,199.89<br>714.76<br>1,286.57<br>536.07      | 694.49                  |
| 33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 8,506.74<br>743.50<br>1,338.30<br>557.63      | 707.34                  |
| 33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 8,817.95<br>771.89<br>1,389.39<br>578.91      | 725.40                  |
| 33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 9,413.82<br>826.87<br>1,488.36<br>620.15      | 755.80                  |
| 33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 10,056.85<br>882.03<br>1,587.65<br>661.52     | 816.13                  |
| 33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 11,126.23<br>979.85<br>1,763.73<br>734.89     | 876.29                  |
| 33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 12,299.56<br>1,090.71<br>1,963.27<br>818.03   | 952.56                  |
| 33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 14,358.52<br>1,291.53<br>2,324.76<br>968.65   | 952.56                  |
| 33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 16,132.52<br>1,502.36<br>2,704.24<br>1,126.77 | 731.91                  |
| 33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 16,455.46<br>1,532.70<br>2,758.87<br>1,149.53 | 744.75                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                     | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 18,287.59<br>1,713.18<br>3,083.72<br>1,284.89 | 762.82                  |
| 33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 17,101.90<br>1,590.01<br>2,862.01<br>1,192.50 | 793.20                  |
| 33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 17,193.32<br>1,590.01<br>2,862.01<br>1,192.50 | 853.56                  |
| 33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 17,575.45<br>1,619.10<br>2,914.39<br>1,214.33 | 913.70                  |
| 33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 21,310.42<br>1,986.13<br>3,575.03<br>1,489.59 | 956.45                  |
| 33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 22,194.78<br>2,069.49<br>3,725.08<br>1,552.12 | 989.92                  |
| 33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 23,478.06<br>2,194.98<br>3,950.97<br>1,646.24 | 1,008.65                |
| 33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 19,005.87<br>1,780.66<br>3,205.18<br>1,335.49 | 791.54                  |
| 33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 19,346.64<br>1,812.79<br>3,263.02<br>1,359.59 | 804.38                  |
| 33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 19,829.22<br>1,858.31<br>3,344.96<br>1,393.73 | 822.44                  |
| 33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 20,328.70<br>1,903.65<br>3,426.57<br>1,427.74 | 852.84                  |
| 33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 20,875.33<br>1,949.17<br>3,508.51<br>1,461.88 | 913.17                  |



|  |  |              |           |
|--|--|--------------|-----------|
|  | <b>Utilities</b>                                   | <b>33</b>    |           |
|  | <b>Water Utilities</b>                             | <b>33 10</b> | <b>33</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                     | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>         | 21,027.16<br>1,955.24<br>3,519.44<br>1,466.43 | 973.33                  |
| 33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>         | 25,588.66<br>2,404.91<br>4,328.85<br>1,803.69 | 1,016.08                |
| 33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>         | 29,173.89<br>2,758.37<br>4,965.06<br>2,068.78 | 1,049.55                |
| 33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>         | 30,601.78<br>2,898.32<br>5,216.98<br>2,173.74 | 1,068.25                |
| 33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>         | 31,112.86<br>2,944.91<br>5,300.84<br>2,208.68 | 1,098.12                |
| <b>33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)</b>  |   |                         |
| 33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 263.46<br>15.17<br>27.31<br>11.38             | 73.73                   |
| 33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 401.43<br>28.38<br>51.09<br>21.29             | 77.61                   |
| 33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 387.43<br>23.92<br>43.06<br>17.94             | 97.82                   |
| 33 14 13 13-0208 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 447.09<br>29.28<br>52.70<br>21.96             | 101.86                  |
| 33 14 13 13-0209 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 601.14<br>42.84<br>77.12<br>32.13             | 113.98                  |
| 33 14 13 13-0210 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 769.73<br>59.09<br>106.36<br>44.32            | 118.05                  |
| 33 14 13 13-0211 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral).....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 691.71<br>49.45<br>89.01<br>37.09             | 130.17                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....   | 834.28                    | 138.26                  |
| For Cement Mortar Lining (CML), Add   | 62.48                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 112.46                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 46.86                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 1,188.69                  | 128.29                  |
| For Cement Mortar Lining (CML), Add   | 99.43                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 178.98                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 74.57                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 1,258.10                  | 139.93                  |
| For Cement Mortar Lining (CML), Add   | 104.61                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 188.29                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 78.46                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 1,444.81                  | 147.69                  |
| For Cement Mortar Lining (CML), Add   | 122.10                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 219.78                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 91.58                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 1,625.75                  | 155.20                  |
| For Cement Mortar Lining (CML), Add   | 139.06                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 250.31                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 104.30                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 1,515.68                  | 143.81                  |
| For Cement Mortar Lining (CML), Add   | 129.78                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 233.60                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 97.33                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 1,713.60                  | 155.44                  |
| For Cement Mortar Lining (CML), Add   | 147.81                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 266.05                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 110.86                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 2,062.76                  | 163.21                  |
| For Cement Mortar Lining (CML), Add   | 181.55                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 326.78                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 136.16                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 2,122.31                  | 170.72                  |
| For Cement Mortar Lining (CML), Add   | 186.37                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 335.46                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 139.78                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 1,925.21                  | 178.46                  |
| For Cement Mortar Lining (CML), Add   | 165.48                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 297.87                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 124.11                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 2,266.63                  | 181.13                  |
| For Cement Mortar Lining (CML), Add   | 199.22                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 358.59                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 149.41                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 2,592.58                  | 188.90                  |
| For Cement Mortar Lining (CML), Add   | 230.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 415.15                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 172.98                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,380.46<br>308.29<br>554.92<br>231.22 | 196.39                  |
| 33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,620.71<br>331.14<br>596.05<br>248.36 | 204.15                  |
| 33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,540.21<br>321.14<br>578.06<br>240.86 | 216.99                  |
| 33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,332.09<br>200.29<br>360.52<br>150.22 | 217.26                  |
| 33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,565.22<br>222.43<br>400.37<br>166.82 | 225.03                  |
| 33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,021.06<br>266.88<br>480.38<br>200.16 | 232.52                  |
| 33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,377.36<br>301.33<br>542.39<br>226.00 | 240.28                  |
| 33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 4,221.54<br>383.80<br>690.84<br>287.85 | 253.13                  |
| 33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 4,073.97<br>366.31<br>659.35<br>274.73 | 271.19                  |
| 33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 3,664.85<br>324.36<br>583.84<br>243.27 | 278.05                  |
| 33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 3,944.39<br>351.13<br>632.04<br>263.35 | 285.81                  |
| 33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 4,214.59<br>377.02<br>678.63<br>282.76 | 293.32                  |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 4,508.40                  | 301.08                  |
| For Cement Mortar Lining (CML), Add   | 405.22                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 729.40                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 303.92                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 4,559.98                  | 313.91                  |
| For Cement Mortar Lining (CML), Add   | 408.44                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 735.18                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 306.33                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 4,608.78                  | 331.99                  |
| For Cement Mortar Lining (CML), Add   | 410.58                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 739.04                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 307.93                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 4,222.83                  | 362.37                  |
| For Cement Mortar Lining (CML), Add   | 367.38                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 661.28                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 275.53                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 4,356.46                  | 398.73                  |
| For Cement Mortar Lining (CML), Add   | 375.23                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 675.42                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 281.42                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....  | 4,452.13                  | 406.50                  |
| For Cement Mortar Lining (CML), Add   | 383.62                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 690.52                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 287.72                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 4,884.77                  | 414.00                  |
| For Cement Mortar Lining (CML), Add   | 425.75                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 766.35                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 319.31                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 5,314.25                  | 421.76                  |
| For Cement Mortar Lining (CML), Add   | 467.52                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 841.54                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 350.64                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 5,369.41                  | 434.59                  |
| For Cement Mortar Lining (CML), Add   | 471.09                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 847.97                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 353.32                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 5,434.27                  | 452.66                  |
| For Cement Mortar Lining (CML), Add   | 474.84                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 854.72                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 356.13                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 6,290.77                  | 483.05                  |
| For Cement Mortar Lining (CML), Add   | 555.89                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 1,000.59                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 416.91                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 5,971.62                  | 543.39                  |
| For Cement Mortar Lining (CML), Add   | 514.83                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 926.69                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 386.12                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  |  |              |
|--|--|--------------|
|  | <b>Utilities</b>                                   | <b>33</b>    |
|  | <b>Water Utilities</b>                             | <b>33 10</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 5,300.99<br>451.46<br>812.62<br>338.59      | 519.04                  |
| 33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 5,369.88<br>457.17<br>822.90<br>342.88      | 526.80                  |
| 33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 5,972.12<br>516.26<br>929.26<br>387.19      | 534.31                  |
| 33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 6,248.05<br>542.68<br>976.82<br>407.01      | 542.07                  |
| 33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 7,202.92<br>636.22<br>1,145.19<br>477.16    | 554.90                  |
| 33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 7,996.12<br>712.80<br>1,283.04<br>534.60    | 572.96                  |
| 33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 8,941.87<br>802.77<br>1,444.98<br>602.08    | 603.36                  |
| 33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 9,824.10<br>881.85<br>1,587.33<br>661.39    | 663.71                  |
| 33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 8,737.06<br>764.03<br>1,375.26<br>573.02    | 723.85                  |
| 33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 10,875.13<br>995.92<br>1,792.65<br>746.94   | 604.52                  |
| 33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 12,182.90<br>1,125.52<br>2,025.93<br>844.14 | 612.29                  |
| 33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 12,886.88<br>1,194.78<br>2,150.61<br>896.09 | 619.79                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 13,591.26                 | 627.55                  |
| For Cement Mortar Lining (CML), Add   | 1,264.04                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 2,275.28                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 948.03                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 14,590.76                 | 640.40                  |
| For Cement Mortar Lining (CML), Add   | 1,362.05                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 2,451.68                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,021.54                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 15,667.78                 | 658.46                  |
| For Cement Mortar Lining (CML), Add   | 1,467.01                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 2,640.62                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,100.26                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 16,065.49                 | 688.85                  |
| For Cement Mortar Lining (CML), Add   | 1,502.18                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 2,703.92                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,126.63                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 16,647.83                 | 749.20                  |
| For Cement Mortar Lining (CML), Add   | 1,551.27                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 2,792.28                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,163.45                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 17,447.67                 | 809.35                  |
| For Cement Mortar Lining (CML), Add   | 1,622.14                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 2,919.85                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,216.60                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 18,906.61                 | 852.10                  |
| For Cement Mortar Lining (CML), Add   | 1,761.56                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 3,170.80                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,321.17                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 20,708.23                 | 694.49                  |
| For Cement Mortar Lining (CML), Add   | 1,965.60                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 3,538.07                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,474.20                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 21,518.48                 | 707.34                  |
| For Cement Mortar Lining (CML), Add   | 2,044.68                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 3,680.42                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,533.51                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 22,325.95                 | 725.40                  |
| For Cement Mortar Lining (CML), Add   | 2,122.69                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 3,820.83                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,592.01                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 23,884.00                 | 755.80                  |
| For Cement Mortar Lining (CML), Add   | 2,273.89                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 4,092.99                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,705.41                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 25,492.78                 | 816.13                  |
| For Cement Mortar Lining (CML), Add   | 2,425.62                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 4,366.12                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 1,819.22                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



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|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                     | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 33 14 13 13-0272 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 28,274.10<br>2,694.64<br>4,850.35<br>2,020.98 | 876.29                  |
| 33 14 13 13-0273 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 31,664.54<br>3,027.21<br>5,448.97<br>2,270.40 | 919.03                  |
| 33 14 13 13-0274 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 37,768.60<br>3,632.54<br>6,538.57<br>2,724.41 | 952.50                  |
| 33 14 13 13-0275 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 33,236.20<br>3,194.29<br>5,749.73<br>2,395.72 | 853.56                  |
| 33 14 13 13-0276 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 34,071.74<br>3,268.73<br>5,883.72<br>2,451.55 | 913.70                  |
| 33 14 13 13-0277 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 36,392.89<br>3,494.37<br>6,289.87<br>2,620.78 | 956.45                  |
| 33 14 13 13-0278 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 41,602.60<br>4,010.27<br>7,218.49<br>3,007.70 | 989.92                  |
| 33 14 13 13-0279 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 49,046.34<br>4,751.81<br>8,553.26<br>3,563.86 | 1,008.64                |
| 33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 32,798.14<br>3,141.45<br>5,654.62<br>2,356.09 | 913.17                  |
| 33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 37,137.87<br>3,566.31<br>6,419.36<br>2,674.73 | 973.33                  |
| 33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 39,578.64<br>3,803.91<br>6,847.04<br>2,852.93 | 1,016.08                |
| 33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 45,100.73<br>4,351.05<br>7,831.89<br>3,263.29 | 1,049.55                |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 58,928.06                 | 1,068.25                |
| For Cement Mortar Lining (CML), Add   | 5,730.95                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 10,315.71                 |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 4,298.21                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) ..... | 64,685.62                 | 1,098.06                |
| For Cement Mortar Lining (CML), Add   | 6,302.19                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 11,343.94                 |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 4,726.64                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| <b>33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)</b>  |                           |                         |
| 33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross .....           | 363.56                    | 87.97                   |
| For Cement Mortar Lining (CML), Add   | 23.03                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 41.45                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 17.27                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross .....           | 439.57                    | 95.72                   |
| For Cement Mortar Lining (CML), Add   | 29.45                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 53.02                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 22.09                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross .....           | 520.09                    | 97.02                   |
| For Cement Mortar Lining (CML), Add   | 37.31                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 67.16                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 27.98                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross .....           | 620.92                    | 119.92                  |
| For Cement Mortar Lining (CML), Add   | 43.91                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 79.05                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 32.94                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross .....           | 603.00                    | 129.35                  |
| For Cement Mortar Lining (CML), Add   | 40.70                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 73.26                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 30.53                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross .....           | 701.97                    | 161.69                  |
| For Cement Mortar Lining (CML), Add   | 45.70                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 82.26                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 34.27                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross .....           | 619.61                    | 141.50                  |
| For Cement Mortar Lining (CML), Add   | 40.52                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 72.94                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 30.39                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross .....           | 736.44                    | 173.83                  |
| For Cement Mortar Lining (CML), Add   | 47.31                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 85.15                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 35.48                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross .....           | 779.83                    | 185.95                  |
| For Cement Mortar Lining (CML), Add   | 49.81                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 89.65                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 37.35                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross .....          | 755.74                    | 150.05                  |
| For Cement Mortar Lining (CML), Add   | 52.84                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                      | 95.11                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                                  | 39.63                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



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|  | <b>Utilities</b>                                   | <b>33</b>    |
|  | <b>Water Utilities</b>                             | <b>33 10</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |

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| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|------------------|-----|---|--|-------------------------|
| 33 14 13 13-0297 | EA  | 10" x 6" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 867.02<br>59.27<br>106.68<br>44.45     | 181.09                  |
| 33 14 13 13-0298 | EA  | 10" x 8" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,027.48<br>73.55<br>132.38<br>55.16   | 192.74                  |
| 33 14 13 13-0299 | EA  | 10" x 10" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,111.53<br>79.80<br>143.63<br>59.85   | 206.92                  |
| 33 14 13 13-0300 | EA  | 12 x 4" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51   | 914.53<br>66.76<br>120.17<br>50.07     | 162.96                  |
| 33 14 13 13-0301 | EA  | 12" x 6" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,063.32<br>76.94<br>138.49<br>57.70   | 193.99                  |
| 33 14 13 13-0302 | EA  | 12" x 8" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,525.46<br>121.39<br>218.50<br>91.04  | 205.65                  |
| 33 14 13 13-0303 | EA  | 12" x 10" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,547.03<br>121.39<br>218.50<br>91.04  | 219.89                  |
| 33 14 13 13-0304 | EA  | 12" x 12" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,754.03<br>140.13<br>252.24<br>105.10 | 232.79                  |
| 33 14 13 13-0305 | EA  | 14" x 6" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,794.25<br>147.09<br>264.77<br>110.32 | 213.38                  |
| 33 14 13 13-0306 | EA  | 14" x 8" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 2,108.23<br>176.73<br>318.11<br>132.55 | 225.03                  |
| 33 14 13 13-0307 | EA  | 14" x 10" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,165.50<br>180.30<br>324.53<br>135.22 | 239.27                  |
| 33 14 13 13-0308 | EA  | 14" x 12" Mechanical Joint Ductile Iron Cross<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,285.03<br>190.29<br>342.53<br>142.72 | 252.18                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross ..... | 2,526.85                  | 271.59                  |
| For Cement Mortar Lining (CML), Add                                     | 211.54                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 380.77                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 158.65                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross .....  | 2,051.38                  | 240.52                  |
| For Cement Mortar Lining (CML), Add                                     | 168.69                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 303.65                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 126.52                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross .....  | 2,331.43                  | 252.18                  |
| For Cement Mortar Lining (CML), Add                                     | 194.94                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 350.88                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 146.20                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross ..... | 2,786.05                  | 266.40                  |
| For Cement Mortar Lining (CML), Add                                     | 238.24                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 428.83                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 178.68                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross ..... | 3,102.70                  | 279.32                  |
| For Cement Mortar Lining (CML), Add                                     | 267.95                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 482.30                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 200.96                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross ..... | 3,742.59                  | 298.71                  |
| For Cement Mortar Lining (CML), Add                                     | 329.00                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 592.20                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 246.75                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross ..... | 4,378.14                  | 325.91                  |
| For Cement Mortar Lining (CML), Add                                     | 388.44                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 699.20                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 291.33                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross .....  | 3,378.15                  | 284.42                  |
| For Cement Mortar Lining (CML), Add                                     | 294.72                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 530.50                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 221.04                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross .....  | 3,570.75                  | 296.07                  |
| For Cement Mortar Lining (CML), Add                                     | 312.22                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 561.99                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 234.16                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross ..... | 3,738.69                  | 310.30                  |
| For Cement Mortar Lining (CML), Add                                     | 326.86                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 588.34                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 245.14                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross ..... | 4,051.02                  | 323.22                  |
| For Cement Mortar Lining (CML), Add                                     | 356.13                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 641.04                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 267.10                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross ..... | 4,721.26                  | 342.60                  |
| For Cement Mortar Lining (CML), Add                                     | 420.22                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 756.39                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 315.16                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|          | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST                | DEMOLITION<br>UNIT COST |
|----------|---------|-----|-----|---|--|-------------------------|
| 33 14 13 | 13-0321 | EA  |     | 18" x 16" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 5,026.59<br>446.64<br>803.95<br>334.98   | 369.74                  |
| 33 14 13 | 13-0322 | EA  |     | 18" x 18" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 5,268.02<br>464.13<br>835.44<br>348.10   | 413.62                  |
| 33 14 13 | 13-0323 | EA  |     | 20" x 6" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 4,246.61<br>370.59<br>667.06<br>277.94   | 356.86                  |
| 33 14 13 | 13-0324 | EA  |     | 20" x 8" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 4,440.99<br>388.26<br>698.88<br>291.20   | 368.51                  |
| 33 14 13 | 13-0325 | EA  |     | 20" x 10" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,578.58<br>399.87<br>719.76<br>299.90   | 382.75                  |
| 33 14 13 | 13-0326 | EA  |     | 20" x 12" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,889.12<br>428.96<br>772.14<br>321.72   | 395.65                  |
| 33 14 13 | 13-0327 | EA  |     | 20" x 14" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,977.40<br>434.86<br>782.74<br>326.14   | 415.05                  |
| 33 14 13 | 13-0328 | EA  |     | 20" x 16" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,011.06<br>534.11<br>961.39<br>400.58   | 442.18                  |
| 33 14 13 | 13-0329 | EA  |     | 20" x 18" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,252.50<br>551.60<br>992.88<br>413.70   | 486.08                  |
| 33 14 13 | 13-0330 | EA  |     | 20" x 20" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,771.05<br>592.48<br>1,066.47<br>444.36 | 558.46                  |
| 33 14 13 | 13-0331 | EA  |     | 24" x 6" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 5,783.60<br>510.72<br>919.30<br>383.04   | 446.41                  |
| 33 14 13 | 13-0332 | EA  |     | 24" x 8" Mechanical Joint Ductile Iron Cross .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 5,919.43<br>522.51<br>940.51<br>391.88   | 458.06                  |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 6,144.13<br>542.86<br>977.14<br>407.14      | 472.28                  |
| 33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 6,338.65<br>560.35<br>1,008.63<br>420.26    | 485.21                  |
| 33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 6,455.49<br>569.10<br>1,024.37<br>426.82    | 504.59                  |
| 33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 6,701.91<br>589.63<br>1,061.33<br>442.22    | 531.74                  |
| 33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 8,840.93<br>796.88<br>1,434.38<br>597.66    | 575.62                  |
| 33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 9,329.14<br>834.72<br>1,502.50<br>626.04    | 648.06                  |
| 33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 10,282.41<br>916.48<br>1,649.67<br>687.36   | 737.65                  |
| 33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 11,022.75<br>1,012.34<br>1,822.22<br>759.26 | 593.56                  |
| 33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 11,242.46<br>1,032.16<br>1,857.88<br>774.12 | 607.80                  |
| 33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 11,458.41<br>1,051.79<br>1,893.23<br>788.84 | 620.71                  |
| 33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 11,714.49<br>1,074.46<br>1,934.04<br>805.85 | 640.11                  |
| 33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 12,009.09<br>1,099.81<br>1,979.66<br>824.86 | 667.24                  |



|          | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                        | DEMOLITION UNIT COST |
|----------|---------|-----|-----|---|---|----------------------|
| 33 14 13 | 13-0345 | EA  |     | 30" x 18" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 12,357.64<br>1,128.02<br>2,030.43<br>846.01   | 711.13               |
| 33 14 13 | 13-0346 | EA  |     | 30" x 20" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 12,804.80<br>1,161.76<br>2,091.16<br>871.32   | 783.58               |
| 33 14 13 | 13-0347 | EA  |     | 30" x 24" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 16,441.09<br>1,511.82<br>2,721.27<br>1,133.86 | 873.11               |
| 33 14 13 | 13-0348 | EA  |     | 30" x 30" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 18,906.36<br>1,737.81<br>3,128.07<br>1,303.36 | 1,008.65             |
| 33 14 13 | 13-0349 | EA  |     | 36" x 8" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 15,357.73<br>1,438.27<br>2,588.89<br>1,078.70 | 643.51               |
| 33 14 13 | 13-0350 | EA  |     | 36" x 10" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 15,575.66<br>1,457.91<br>2,624.23<br>1,093.43 | 657.74               |
| 33 14 13 | 13-0351 | EA  |     | 36" x 12" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 15,763.03<br>1,474.69<br>2,654.44<br>1,106.02 | 670.66               |
| 33 14 13 | 13-0352 | EA  |     | 36" x 14" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 15,988.76<br>1,494.32<br>2,689.78<br>1,120.74 | 690.05               |
| 33 14 13 | 13-0353 | EA  |     | 36" x 16" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 16,254.82<br>1,516.82<br>2,730.27<br>1,137.61 | 717.20               |
| 33 14 13 | 13-0354 | EA  |     | 36" x 18" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 16,573.02<br>1,541.99<br>2,775.58<br>1,156.49 | 761.07               |
| 33 14 13 | 13-0355 | EA  |     | 36" x 20" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 16,991.60<br>1,572.87<br>2,831.16<br>1,179.65 | 833.52               |
| 33 14 13 | 13-0356 | EA  |     | 36" x 24" Mechanical Joint Ductile Iron Cross .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 17,716.37<br>1,631.78<br>2,937.20<br>1,223.83 | 923.08               |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross ..... | 23,837.58                 | 1,058.58                |
| For Cement Mortar Lining (CML), Add                                     | 2,223.37                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 4,002.06                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,667.53                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross ..... | 26,183.93                 | 1,108.58                |
| For Cement Mortar Lining (CML), Add                                     | 2,450.43                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 4,410.78                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,837.83                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross ..... | 20,590.92                 | 699.53                  |
| For Cement Mortar Lining (CML), Add                                     | 1,953.10                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 3,515.58                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,464.83                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross ..... | 23,272.53                 | 718.93                  |
| For Cement Mortar Lining (CML), Add                                     | 2,218.32                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 3,992.98                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,663.74                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross ..... | 21,063.06                 | 746.07                  |
| For Cement Mortar Lining (CML), Add                                     | 1,993.27                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 3,587.88                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,494.95                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross ..... | 21,345.56                 | 789.96                  |
| For Cement Mortar Lining (CML), Add                                     | 2,014.87                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 3,626.76                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,511.15                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross ..... | 21,749.87                 | 862.41                  |
| For Cement Mortar Lining (CML), Add                                     | 2,044.32                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 3,679.77                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,533.24                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross ..... | 22,422.87                 | 951.95                  |
| For Cement Mortar Lining (CML), Add                                     | 2,098.05                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 3,776.49                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,573.54                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross ..... | 28,690.45                 | 1,087.46                |
| For Cement Mortar Lining (CML), Add                                     | 2,704.28                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 4,867.70                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 2,028.21                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross ..... | 37,432.89                 | 1,137.41                |
| For Cement Mortar Lining (CML), Add                                     | 3,570.95                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 6,427.72                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 2,678.22                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross ..... | 40,104.34                 | 1,166.31                |
| For Cement Mortar Lining (CML), Add                                     | 3,833.72                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 6,900.70                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 2,875.29                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross ..... | 27,821.23                 | 814.21                  |
| For Cement Mortar Lining (CML), Add                                     | 2,658.76                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 4,785.76                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 1,994.07                  |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  |  |              |           |
|--|--|--------------|-----------|
|  | <b>Utilities</b>                                   | <b>33</b>    |           |
|  | <b>Water Utilities</b>                             | <b>33 10</b> | <b>CS</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR  | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                        | DEMOLITION UNIT COST |
|--|---------|-----|--|---|----------------------|
| 33 14 13   | 13-0369 | EA  | 48" x 14" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 28,011.27<br>2,674.82<br>4,814.68<br>2,006.12 | 833.61               |
| 33 14 13   | 13-0370 | EA  | 48" x 16" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 28,266.61<br>2,696.25<br>4,853.24<br>2,022.18 | 860.74               |
| 33 14 13   | 13-0371 | EA  | 48" x 18" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 28,547.31<br>2,717.67<br>4,891.80<br>2,038.25 | 904.63               |
| 33 14 13   | 13-0372 | EA  | 48" x 20" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 28,926.64<br>2,744.62<br>4,940.32<br>2,058.47 | 977.08               |
| 33 14 13   | 13-0373 | EA  | 48" x 24" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 29,571.08<br>2,795.50<br>5,031.90<br>2,096.62 | 1,066.61             |
| 33 14 13   | 13-0374 | EA  | 48" x 30" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 31,306.25<br>2,948.48<br>5,307.27<br>2,211.36 | 1,202.13             |
| 33 14 13   | 13-0375 | EA  | 48" x 36" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 38,329.60<br>3,643.25<br>6,557.85<br>2,732.44 | 1,252.08             |
| 33 14 13   | 13-0376 | EA  | 48" x 42" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 49,239.40<br>4,729.85<br>8,513.74<br>3,547.39 | 1,280.96             |
| 33 14 13   | 13-0377 | EA  | 48" x 48" Mechanical Joint Ductile Iron Cross<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 52,444.26<br>5,032.97<br>9,059.34<br>3,774.73 | 1,395.57             |
| <b>33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)</b> |         |     |  |   |                      |
| 33 14 13   | 13-0379 | EA  | 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 176.06<br>10.35<br>18.64<br>7.77              | 47.86                |
| 33 14 13   | 13-0380 | EA  | 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 205.14<br>11.43<br>20.57<br>8.57              | 59.99                |
| 33 14 13   | 13-0381 | EA  | 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 221.73<br>12.50<br>22.49<br>9.37              | 63.86                |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....   | 280.51                    | 71.97                   |
| For Cement Mortar Lining (CML), Add   | 17.14                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 30.85                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 12.85                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....   | 309.48                    | 84.08                   |
| For Cement Mortar Lining (CML), Add   | 18.21                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 32.77                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 13.66                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 339.15                    | 76.56                   |
| For Cement Mortar Lining (CML), Add   | 22.31                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 40.17                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 16.74                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 369.27                    | 88.20                   |
| For Cement Mortar Lining (CML), Add   | 23.56                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 42.42                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 17.67                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 404.24                    | 95.96                   |
| For Cement Mortar Lining (CML), Add   | 25.88                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 46.59                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 19.41                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 409.80                    | 84.32                   |
| For Cement Mortar Lining (CML), Add   | 28.21                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 50.77                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 21.15                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 456.00                    | 95.96                   |
| For Cement Mortar Lining (CML), Add   | 31.06                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 55.91                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 23.30                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 476.70                    | 103.72                  |
| For Cement Mortar Lining (CML), Add   | 31.95                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 57.52                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 23.97                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 521.97                    | 111.23                  |
| For Cement Mortar Lining (CML), Add   | 35.35                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 63.62                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 26.51                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 853.91                    | 108.80                  |
| For Cement Mortar Lining (CML), Add   | 68.91                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 124.03                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 51.68                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 829.96                    | 116.58                  |
| For Cement Mortar Lining (CML), Add   | 65.34                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 117.60                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 49.00                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 744.93                    | 124.06                  |
| For Cement Mortar Lining (CML), Add   | 55.70                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 100.25                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 41.77                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  |  |              |           |
|--|--|--------------|-----------|
|  | <b>Utilities</b>                                   | <b>33</b>    |           |
|  | <b>Water Utilities</b>                             | <b>33 10</b> | <b>33</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 783.46<br>58.37<br>105.07<br>43.78     | 131.82                  |
| 33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,002.66<br>81.04<br>145.88<br>60.78   | 126.86                  |
| 33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 984.09<br>78.01<br>140.42<br>58.51     | 134.63                  |
| 33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 966.88<br>75.15<br>135.28<br>56.37     | 142.13                  |
| 33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,048.26<br>82.12<br>147.81<br>61.59   | 149.89                  |
| 33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,165.90<br>91.93<br>165.48<br>68.95   | 162.73                  |
| 33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,251.49<br>100.15<br>180.26<br>75.11  | 165.03                  |
| 33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,402.08<br>114.07<br>205.32<br>85.55  | 172.52                  |
| 33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,353.16<br>108.00<br>194.40<br>81.00  | 180.28                  |
| 33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,435.09<br>114.25<br>205.65<br>85.69  | 193.12                  |
| 33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,512.44<br>119.25<br>214.64<br>89.43  | 211.20                  |
| 33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 1,765.99<br>142.45<br>256.42<br>106.84 | 225.37                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,695.23                  | 232.86                  |
| For Cement Mortar Lining (CML), Add   | 134.24                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 241.63                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 100.68                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,565.96                  | 240.62                  |
| For Cement Mortar Lining (CML), Add   | 120.14                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 216.25                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 90.10                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,576.50                  | 253.46                  |
| For Cement Mortar Lining (CML), Add   | 119.25                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 214.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 89.43                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,628.86                  | 271.53                  |
| For Cement Mortar Lining (CML), Add   | 121.75                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 219.14                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 91.31                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,951.61                  | 301.92                  |
| For Cement Mortar Lining (CML), Add   | 149.42                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 268.95                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 112.06                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,296.17                  | 300.77                  |
| For Cement Mortar Lining (CML), Add   | 184.05                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 331.28                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 138.03                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,362.05                  | 313.62                  |
| For Cement Mortar Lining (CML), Add   | 188.69                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 339.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 141.52                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,414.41                  | 331.68                  |
| For Cement Mortar Lining (CML), Add   | 191.19                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 344.13                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 143.39                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,376.56                  | 362.07                  |
| For Cement Mortar Lining (CML), Add   | 182.80                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 329.03                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 137.10                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,903.55                  | 422.42                  |
| For Cement Mortar Lining (CML), Add   | 226.35                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 407.44                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 169.76                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 4,717.72                  | 374.43                  |
| For Cement Mortar Lining (CML), Add   | 415.04                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 747.07                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 311.28                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 4,928.01                  | 404.82                  |
| For Cement Mortar Lining (CML), Add   | 431.46                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 776.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 323.60                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|          | MINOR   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST                      | DEMOLITION UNIT COST |
|----------|---------|-----|-----|---|---|----------------------|
| 33 14 13 | 13-0418 | EA  |     | 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,780.22<br>407.54<br>733.58<br>305.66      | 465.15               |
| 33 14 13 | 13-0419 | EA  |     | 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,676.78<br>388.09<br>698.55<br>291.06      | 525.32               |
| 33 14 13 | 13-0420 | EA  |     | 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 7,069.47<br>631.40<br>1,136.51<br>473.55    | 498.64               |
| 33 14 13 | 13-0421 | EA  |     | 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 5,859.26<br>501.26<br>902.27<br>375.95      | 558.78               |
| 33 14 13 | 13-0422 | EA  |     | 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,363.18<br>545.18<br>981.32<br>408.88      | 601.53               |
| 33 14 13 | 13-0423 | EA  |     | 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 9,172.10<br>852.57<br>1,534.63<br>639.43    | 426.61               |
| 33 14 13 | 13-0424 | EA  |     | 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 9,139.61<br>844.72<br>1,520.49<br>633.54    | 457.00               |
| 33 14 13 | 13-0425 | EA  |     | 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 9,202.48<br>841.86<br>1,515.35<br>631.40    | 517.34               |
| 33 14 13 | 13-0426 | EA  |     | 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 10,270.08<br>939.51<br>1,691.12<br>704.63   | 577.50               |
| 33 14 13 | 13-0427 | EA  |     | 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 8,481.89<br>754.21<br>1,357.58<br>565.66    | 620.23               |
| 33 14 13 | 13-0428 | EA  |     | 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 8,878.91<br>788.85<br>1,419.92<br>591.63    | 653.71               |
| 33 14 13 | 13-0429 | EA  |     | 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 12,348.37<br>1,165.68<br>2,098.23<br>874.26 | 456.42               |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 11,976.71                 | 486.82                  |
| For Cement Mortar Lining (CML), Add   | 1,123.91                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,023.04                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 842.93                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 11,425.49                 | 547.15                  |
| For Cement Mortar Lining (CML), Add   | 1,059.65                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,907.36                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 794.74                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 11,786.19                 | 607.30                  |
| For Cement Mortar Lining (CML), Add   | 1,086.60                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,955.89                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 814.95                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 14,077.00                 | 650.05                  |
| For Cement Mortar Lining (CML), Add   | 1,309.21                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,356.57                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 981.91                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 12,340.80                 | 683.53                  |
| For Cement Mortar Lining (CML), Add   | 1,130.52                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,034.93                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 847.89                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 13,543.75                 | 702.23                  |
| For Cement Mortar Lining (CML), Add   | 1,247.98                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 2,246.36                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 935.98                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| <b>33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)</b>               |                           |                         |
| 33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps .....                             | 199.53                    | 101.05                  |
| For Cement Mortar Lining (CML), Add   | 4.64                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 8.35                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 3.48                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps .....                             | 227.85                    | 118.57                  |
| For Cement Mortar Lining (CML), Add   | 4.82                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 8.68                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 3.62                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps .....                             | 310.26                    | 148.22                  |
| For Cement Mortar Lining (CML), Add   | 8.57                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 15.42                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 6.43                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps .....                             | 399.47                    | 169.41                  |
| For Cement Mortar Lining (CML), Add   | 14.28                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 25.71                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 10.71                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps .....                            | 572.21                    | 258.65                  |
| For Cement Mortar Lining (CML), Add   | 18.03                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 32.45                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 13.52                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps .....                            | 697.09                    | 282.18                  |
| For Cement Mortar Lining (CML), Add   | 26.96                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 48.52                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 20.22                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|                  | MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                    | DEMOLITION UNIT COST |
|------------------|---|-----|-----|--|---|----------------------|
| 33 14 13 13-0443 | EA  |     |     | 14" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 879.07<br>40.88<br>73.58<br>30.66         | 310.39               |
| 33 14 13 13-0444 | EA  |     |     | 16" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,070.57<br>54.80<br>98.65<br>41.10       | 344.84               |
| 33 14 13 13-0445 | EA  |     |     | 18" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,257.27<br>66.94<br>120.50<br>50.21      | 387.99               |
| 33 14 13 13-0446 | EA  |     |     | 20" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,537.61<br>86.58<br>155.84<br>64.93      | 443.37               |
| 33 14 13 13-0447 | EA  |     |     | 24" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,972.70<br>118.89<br>214.00<br>89.17     | 517.32               |
| 33 14 13 13-0448 | EA  |     |     | 30" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 3,659.31<br>271.87<br>489.37<br>203.91    | 620.77               |
| 33 14 13 13-0449 | EA  |     |     | 36" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 6,120.50<br>494.48<br>890.06<br>370.86    | 775.97               |
| 33 14 13 13-0450 | EA  |     |     | 42" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 8,910.15<br>749.93<br>1,349.87<br>562.45  | 931.17               |
| 33 14 13 13-0451 | EA  |     |     | 48" Mechanical Joint Ductile Iron Caps .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 10,603.90<br>903.63<br>1,626.53<br>677.72 | 1,034.62             |
| <br>             |   |     |     |  |   |                      |
| 33 14 13 13-0452 | <b>Mechanical Joint Ductile Iron Plug</b> <small>(33 14 13 13-0002)</small> |     |     |  |   |                      |
| 33 14 13 13-0453 | EA  |     |     | 3" Mechanical Joint Ductile Iron Plug.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 206.67<br>5.36<br>9.64<br>4.02            | 101.05               |
| 33 14 13 13-0454 | EA  |     |     | 4" Mechanical Joint Ductile Iron Plug.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 238.57<br>5.89<br>10.60<br>4.42           | 118.57               |
| 33 14 13 13-0455 | EA  |     |     | 6" Mechanical Joint Ductile Iron Plug.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>   | 338.82<br>11.43<br>20.57<br>8.57          | 148.22               |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION                                    | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug.....  | 428.03                    | 169.41                  |
| For Cement Mortar Lining (CML), Add                             | 17.14                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 30.85                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 12.85                     |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug..... | 688.23                    | 258.65                  |
| For Cement Mortar Lining (CML), Add                             | 29.63                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 53.34                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 22.22                     |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug..... | 729.23                    | 282.18                  |
| For Cement Mortar Lining (CML), Add                             | 30.17                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 54.30                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 22.63                     |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug..... | 1,084.36                  | 310.39                  |
| For Cement Mortar Lining (CML), Add                             | 61.41                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 110.53                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 46.06                     |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug..... | 601.09                    | 344.84                  |
| For Cement Mortar Lining (CML), Add                             | 7.86                      |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 14.14                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 5.89                      |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug..... | 1,562.53                  | 387.99                  |
| For Cement Mortar Lining (CML), Add                             | 97.47                     |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 175.44                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 73.10                     |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug..... | 1,953.55                  | 443.37                  |
| For Cement Mortar Lining (CML), Add                             | 128.17                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 230.71                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 96.13                     |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug..... | 2,561.79                  | 517.32                  |
| For Cement Mortar Lining (CML), Add                             | 177.80                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 320.04                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 133.35                    |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug..... | 4,469.75                  | 620.77                  |
| For Cement Mortar Lining (CML), Add                             | 352.92                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 635.25                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 264.69                    |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug..... | 6,627.48                  | 775.97                  |
| For Cement Mortar Lining (CML), Add                             | 545.18                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 981.32                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 408.88                    |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug..... | 8,974.41                  | 931.17                  |
| For Cement Mortar Lining (CML), Add                             | 756.36                    |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 1,361.44                  |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 567.27                    |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |
| 33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug..... | 11,649.98                 | 1,034.62                |
| For Cement Mortar Lining (CML), Add                             | 1,008.24                  |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                      | 1,814.82                  |                         |
| Note: ANSI/AWWA C104/A21.4                                      |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                  | 756.18                    |                         |
| Note: ANSI/AWWA C151/A21.51                                     |                           |                         |

33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0469 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....  | 348.77                    | 153.61                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 11.60                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 20.89                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 8.70                      |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0470 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....  | 394.45                    | 177.86                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 12.50                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 22.49                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 9.37                      |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0471 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....  | 510.02                    | 222.32                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 17.32                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 31.17                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 12.99                     |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0472 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....  | 647.39                    | 254.06                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 26.24                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 47.23                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 19.68                     |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0473 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 1,044.84                  | 387.99                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 45.70                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 82.26                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 34.27                     |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0474 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 1,226.82                  | 423.26                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 58.55                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 105.39                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 43.91                     |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0475 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 1,635.47                  | 465.58                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 93.01                     |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 167.41                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 69.75                     |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0476 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 1,845.96                  | 517.32                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 106.22                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 191.19                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 79.66                     |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0477 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 2,506.24                  | 581.97                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 162.45                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 292.40                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 121.83                    |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0478 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 2,942.82                  | 665.10                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 193.51                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 348.31                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 145.13                    |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0479 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 3,558.86                  | 775.97                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 238.31                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 428.97                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 178.74                    |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |
| 33 14 13 13-0480 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 5,796.90                  | 931.17                  |
| <i>For Cement Mortar Lining (CML), Add</i>  | 438.60                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Fusion Bonded Epoxy Lining (206N), Add</i>   | 789.49                    |                         |
| <i>Note: ANSI/AWWA C104/A21.4</i>   |                           |                         |
| <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>                                     | 328.95                    |                         |
| <i>Note: ANSI/AWWA C151/A21.51</i>  |                           |                         |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0481 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 8,048.98                  | 1,163.96                |
| For Cement Mortar Lining (CML), Add   | 628.54                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,131.37                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 471.41                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0482 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 10,778.65                 | 1,330.20                |
| For Cement Mortar Lining (CML), Add   | 876.32                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,577.37                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 657.24                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0483 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... | 13,326.34                 | 1,551.94                |
| For Cement Mortar Lining (CML), Add   | 1,097.49                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,975.49                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 823.12                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| <b>33 14 13 13-0484 Mechanical Joint Ductile Iron Long Sleeves</b> (33 14 13 13-0002)     |                           |                         |
| 33 14 13 13-0485 EA 3" Mechanical Joint Ductile Iron Long Sleeves.....                    | 330.92                    | 153.61                  |
| For Cement Mortar Lining (CML), Add   | 9.82                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 17.67                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 7.36                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0486 EA 4" Mechanical Joint Ductile Iron Long Sleeves.....                    | 385.52                    | 177.86                  |
| For Cement Mortar Lining (CML), Add   | 11.60                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 20.89                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 8.70                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0487 EA 6" Mechanical Joint Ductile Iron Long Sleeves.....                    | 531.44                    | 222.32                  |
| For Cement Mortar Lining (CML), Add   | 19.46                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 35.02                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 14.59                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0488 EA 8" Mechanical Joint Ductile Iron Long Sleeves.....                    | 704.52                    | 254.06                  |
| For Cement Mortar Lining (CML), Add   | 31.95                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 57.52                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 23.97                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0489 EA 10" Mechanical Joint Ductile Iron Long Sleeves.....                   | 968.08                    | 387.99                  |
| For Cement Mortar Lining (CML), Add   | 38.02                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 68.44                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 28.52                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0490 EA 12" Mechanical Joint Ductile Iron Long Sleeves.....                   | 1,155.41                  | 423.26                  |
| For Cement Mortar Lining (CML), Add   | 51.41                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 92.54                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 38.56                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0491 EA 14" Mechanical Joint Ductile Iron Long Sleeves.....                   | 1,481.95                  | 465.58                  |
| For Cement Mortar Lining (CML), Add   | 77.65                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 139.78                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 58.24                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0492 EA 16" Mechanical Joint Ductile Iron Long Sleeves.....                   | 1,767.41                  | 517.32                  |
| For Cement Mortar Lining (CML), Add   | 98.36                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 177.05                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 73.77                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-0493 EA 18" Mechanical Joint Ductile Iron Long Sleeves.....                   | 2,140.29                  | 581.97                  |
| For Cement Mortar Lining (CML), Add   | 125.85                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 226.53                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 94.39                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  | MINOR    | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST                      | DEMOLITION UNIT COST |
|--|----------|---------|-----|--|---|----------------------|
|  | 33 14 13 | 13-0494 | EA  | 20" Mechanical Joint Ductile Iron Long Sleeves .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,526.89<br>151.91<br>273.45<br>113.94      | 665.10               |
|  | 33 14 13 | 13-0495 | EA  | 24" Mechanical Joint Ductile Iron Long Sleeves .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 3,176.84<br>200.11<br>360.20<br>150.08      | 775.97               |
|  | 33 14 13 | 13-0496 | EA  | 30" Mechanical Joint Ductile Iron Long Sleeves .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 5,602.32<br>419.15<br>754.46<br>314.36      | 931.17               |
|  | 33 14 13 | 13-0497 | EA  | 36" Mechanical Joint Ductile Iron Long Sleeves .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 7,649.11<br>588.55<br>1,059.40<br>441.42    | 1,163.96             |
|  | 33 14 13 | 13-0498 | EA  | 42" Mechanical Joint Ductile Iron Long Sleeves .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 9,885.58<br>787.24<br>1,417.03<br>590.43    | 1,328.67             |
|  | 33 14 13 | 13-0499 | EA  | 48" Mechanical Joint Ductile Iron Long Sleeves .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 13,410.24<br>1,105.88<br>1,990.59<br>829.41 | 1,551.94             |
|  | 33 14 13 | 13-0500 |     | <b>Mechanical Joint Ductile Iron Gland Packs</b> <small>(33 14 13 13-0002)</small><br>Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.   |   |                      |
|  | 33 14 13 | 13-0501 |     | <b>Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts</b> <small>(33 14 13 13-0500)</small><br>Note: Labor installation is included with pipe fittings or valves.   |   |                      |
|  | 33 14 13 | 13-0502 | EA  | 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 35.70                                       |                      |
|  | 33 14 13 | 13-0503 | EA  | 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.  | 58.03                                       |                      |
|  | 33 14 13 | 13-0504 | EA  | 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.   | 70.12                                       |                      |
|  | 33 14 13 | 13-0505 | EA  | 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.   | 82.21                                       |                      |
|  | 33 14 13 | 13-0506 | EA  | 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.  | 113.65                                      |                      |
|  | 33 14 13 | 13-0507 | EA  | 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.  | 120.90                                      |                      |
|  | 33 14 13 | 13-0508 | EA  | 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.   | 198.28                                      |                      |
|  | 33 14 13 | 13-0509 | EA  | 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.  | 210.37                                      |                      |
|  | 33 14 13 | 13-0510 | EA  | 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.  | 280.49                                      |                      |
|  | 33 14 13 | 13-0511 | EA  | 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.  | 362.70                                      |                      |
|  | 33 14 13 | 13-0512 | EA  | 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.   | 505.36                                      |                      |
|  | 33 14 13 | 13-0513 | EA  | 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.  | 1,206.58                                    |                      |
|  | 33 14 13 | 13-0514 | EA  | 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.   | 2,601.77                                    |                      |
|  | 33 14 13 | 13-0515 | EA  | 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.  | 3,798.68                                    |                      |
|  | 33 14 13 | 13-0516 | EA  | 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....<br>Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.  | 4,661.90                                    |                      |
|  | 33 14 13 | 13-0517 |     | <b>Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts</b> <small>(33 14 13 13-0500)</small><br>Note: Labor installation is included with pipe fittings or valves.  |   |                      |
|  | 33 14 13 | 13-0518 | EA  | 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....  | 60.69                                       |                      |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-0519 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....   | 82.21                     |                         |
| Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.  |                           |                         |
| 33 14 13 13-0520 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....   | 103.97                    |                         |
| Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0521 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....   | 113.65                    |                         |
| Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0522 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 157.17                    |                         |
| Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0523 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 164.42                    |                         |
| Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0524 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 249.05                    |                         |
| Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.  |                           |                         |
| 33 14 13 13-0525 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 273.23                    |                         |
| Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0526 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 362.70                    |                         |
| Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0527 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 469.09                    |                         |
| Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0528 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....   | 655.28                    |                         |
| Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.  |                           |                         |
| <b>33 14 13 13-0529 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts</b> <small>(33 14 13 13-0500)</small>                                     |                           |                         |
| Note: Labor installation is included with pipe fittings or valves.   |                           |                         |
| 33 14 13 13-0530 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....   | 39.27                     |                         |
| 33 14 13 13-0531 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....  | 62.87                     |                         |
| Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.  |                           |                         |
| 33 14 13 13-0532 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....  | 74.96                     |                         |
| Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0533 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....  | 89.47                     |                         |
| Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0534 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 123.32                    |                         |
| Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0535 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 130.57                    |                         |
| Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0536 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 215.20                    |                         |
| Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.  |                           |                         |
| 33 14 13 13-0537 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 227.29                    |                         |
| Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0538 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 307.09                    |                         |
| Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0539 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 394.13                    |                         |
| Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0540 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 551.30                    |                         |
| Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.  |                           |                         |
| 33 14 13 13-0541 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 1,320.23                  |                         |
| Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0542 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 2,925.78                  |                         |
| Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.  |                           |                         |
| 33 14 13 13-0543 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 4,236.34                  |                         |
| Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.   |                           |                         |
| 33 14 13 13-0544 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....   | 5,213.21                  |                         |
| Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.   |                           |                         |
| <b>33 14 13 13-0545 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe</b><br><b>(MEGALUG® 1100DEC Series)</b> <small>(33 14 13 13-0002)</small> |                           |                         |
| Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.                                    |                           |                         |
| 33 14 13 13-0546 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....   | 208.75                    | 77.05                   |
| 33 14 13 13-0547 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....   | 238.22                    | 91.25                   |
| 33 14 13 13-0548 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....   | 295.51                    | 112.94                  |
| 33 14 13 13-0549 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....   | 368.48                    | 131.81                  |
| 33 14 13 13-0550 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....  | 535.20                    | 193.99                  |
| 33 14 13 13-0551 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....  | 659.35                    | 221.74                  |
| 33 14 13 13-0552 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....  | 767.27                    | 238.67                  |
| 33 14 13 13-0553 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....  | 944.57                    | 258.65                  |
| 33 14 13 13-0554 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....  | 1,211.44                  | 310.39                  |
| 33 14 13 13-0555 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....  | 1,429.29                  | 344.72                  |
| 33 14 13 13-0556 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....  | 1,854.77                  | 397.75                  |
| 33 14 13 13-0557 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....  | 3,592.81                  | 476.98                  |
| 33 14 13 13-0558 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....  | 4,436.96                  | 596.91                  |
| 33 14 13 13-0559 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....  | 6,543.05                  | 688.73                  |
| 33 14 13 13-0560 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....  | 8,379.21                  | 885.78                  |
| <b>33 14 13 13-0561 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint</b><br><b>(FLEX-TEND®)</b> <small>(33 14 13 13-0002)</small>           |                           |                         |
| 33 14 13 13-0562 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....   | 4,431.07                  | 63.06                   |
| 33 14 13 13-0563 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....   | 4,613.93                  | 78.83                   |
| 33 14 13 13-0564 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....   | 6,695.13                  | 116.49                  |
| 33 14 13 13-0565 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....   | 9,098.47                  | 138.18                  |



|                         | MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|--|---------------------------|-------------------------|
|                         | 33 14 13 13-0566 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 11,471.15                 | 154.84                  |
|                         | 33 14 13 13-0567 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 15,299.61                 | 181.65                  |
|                         | 33 14 13 13-0568 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 18,846.93                 | 203.69                  |
|                         | 33 14 13 13-0569 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 22,296.67                 | 232.79                  |
|                         | 33 14 13 13-0570 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 25,138.65                 | 325.91                  |
|                         | 33 14 13 13-0571 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 33,818.80                 | 407.39                  |
|                         | 33 14 13 13-0572 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....  | 46,859.53                 | 543.18                  |
| <b>33 14 13 13-0573</b> | <b>Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series)</b> <small>(33 14 13 13-0002)</small><br>Note: Includes machined bolts and gasket.                                   |                           |                         |
|                         | 33 14 13 13-0574 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM) .....   | 207.27                    | 77.05                   |
|                         | 33 14 13 13-0575 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM) .....   | 265.77                    | 91.25                   |
|                         | 33 14 13 13-0576 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM) .....   | 343.29                    | 112.94                  |
|                         | 33 14 13 13-0577 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM) .....   | 391.91                    | 131.81                  |
|                         | 33 14 13 13-0578 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....   | 687.22                    | 202.12                  |
|                         | 33 14 13 13-0579 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....   | 777.85                    | 231.02                  |
| <b>33 14 13 13-0580</b> | <b>Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series)</b> <small>(33 14 13 13-0002)</small><br>Note: Includes nuts, bolts and gasket.                                       |                           |                         |
|                         | 33 14 13 13-0581 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300)).....  | 300.86                    | 77.05                   |
|                         | 33 14 13 13-0582 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400) .....  | 374.05                    | 91.25                   |
|                         | 33 14 13 13-0583 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600) .....  | 517.38                    | 112.94                  |
|                         | 33 14 13 13-0584 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800) .....  | 746.92                    | 131.81                  |
|                         | 33 14 13 13-0585 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000) .....   | 1,082.48                  | 202.12                  |
|                         | 33 14 13 13-0586 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200) .....   | 1,345.16                  | 231.02                  |
|                         | 33 14 13 13-0587 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400) .....   | 2,068.77                  | 248.67                  |
|                         | 33 14 13 13-0588 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600) .....   | 2,896.44                  | 269.49                  |
|                         | 33 14 13 13-0589 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800) .....   | 3,276.75                  | 323.39                  |
|                         | 33 14 13 13-0590 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000) .....   | 3,619.68                  | 359.16                  |
|                         | 33 14 13 13-0591 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400) .....   | 4,378.21                  | 414.40                  |
|                         | 33 14 13 13-0592 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000) .....   | 5,631.52                  | 496.96                  |
|                         | 33 14 13 13-0593 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600) .....   | 8,407.03                  | 621.90                  |
|                         | 33 14 13 13-0594 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200) .....   | 21,896.21                 | 1717.58                 |
|                         | 33 14 13 13-0595 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800) .....   | 28,046.07                 | 922.87                  |
| <b>33 14 13 13-0596</b> | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping</b> <small>(33 14 13 13-0001)</small><br>Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets. |                           |                         |
| <b>33 14 13 13-0597</b> | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0596)</small>   |                           |                         |
|                         | 33 14 13 13-0598 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....   | 446.87                    | 43.98                   |
|                         | 33 14 13 13-0599 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....   | 534.83                    | 52.68                   |
|                         | 33 14 13 13-0600 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....   | 829.86                    | 77.17                   |
|                         | 33 14 13 13-0601 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....   | 1,133.94                  | 91.87                   |
|                         | 33 14 13 13-0602 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 1,555.90                  | 103.47                  |
|                         | 33 14 13 13-0603 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 1,972.09                  | 121.10                  |
|                         | 33 14 13 13-0604 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 2,801.30                  | 136.38                  |
|                         | 33 14 13 13-0605 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 3,398.37                  | 155.20                  |
|                         | 33 14 13 13-0606 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 4,108.26                  | 217.51                  |
|                         | 33 14 13 13-0607 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 5,120.63                  | 271.59                  |
|                         | 33 14 13 13-0608 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 7,238.67                  | 362.12                  |
|                         | 33 14 13 13-0609 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 11,578.83                 | 387.99                  |
|                         | 33 14 13 13-0610 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 17,044.04                 | 403.27                  |
|                         | 33 14 13 13-0611 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 28,069.52                 | 465.58                  |
|                         | 33 14 13 13-0612 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....  | 36,711.70                 | 494.98                  |
| <b>33 14 13 13-0613</b> | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0596)</small>   |                           |                         |
|                         | 33 14 13 13-0614 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....   | 427.23                    | 43.98                   |
|                         | 33 14 13 13-0615 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....   | 500.91                    | 52.68                   |
|                         | 33 14 13 13-0616 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....   | 770.95                    | 77.17                   |
|                         | 33 14 13 13-0617 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....   | 1,042.90                  | 91.87                   |
|                         | 33 14 13 13-0618 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 1,363.11                  | 103.47                  |
|                         | 33 14 13 13-0619 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 1,798.93                  | 121.10                  |
|                         | 33 14 13 13-0620 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 2,430.00                  | 136.38                  |
|                         | 33 14 13 13-0621 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 2,909.25                  | 155.20                  |
|                         | 33 14 13 13-0622 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 3,442.41                  | 217.51                  |
|                         | 33 14 13 13-0623 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 4,179.87                  | 271.59                  |
|                         | 33 14 13 13-0624 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 5,508.89                  | 362.12                  |
|                         | 33 14 13 13-0625 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 10,120.39                 | 387.99                  |
|                         | 33 14 13 13-0626 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 13,986.13                 | 403.27                  |
|                         | 33 14 13 13-0627 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 20,775.52                 | 465.58                  |
|                         | 33 14 13 13-0628 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....  | 26,590.07                 | 494.98                  |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 33 14 13 13-0629 |     |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow</b> <small>(33 14 13 13-0596)</small>                 |                        |                      |
| 33 14 13 13-0630 | EA  |     | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow   | 332.62                 | 43.98                |
| 33 14 13 13-0631 | EA  |     | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow   | 495.55                 | 52.68                |
| 33 14 13 13-0632 | EA  |     | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow   | 749.53                 | 77.17                |
| 33 14 13 13-0633 | EA  |     | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow   | 1,035.76               | 91.87                |
| 33 14 13 13-0634 | EA  |     | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 1,361.33               | 103.47               |
| 33 14 13 13-0635 | EA  |     | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 1,695.40               | 121.10               |
| 33 14 13 13-0636 | EA  |     | 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 2,444.28               | 136.38               |
| 33 14 13 13-0637 | EA  |     | 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 2,844.99               | 155.20               |
| 33 14 13 13-0638 | EA  |     | 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 3,426.34               | 217.51               |
| 33 14 13 13-0639 | EA  |     | 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 4,328.03               | 271.59               |
| 33 14 13 13-0640 | EA  |     | 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 5,391.07               | 362.12               |
| 33 14 13 13-0641 | EA  |     | 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 9,008.26               | 387.99               |
| 33 14 13 13-0642 | EA  |     | 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 12,290.27              | 403.27               |
| 33 14 13 13-0643 | EA  |     | 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 17,581.94              | 465.58               |
| 33 14 13 13-0644 | EA  |     | 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow  | 22,507.50              | 494.98               |
| 33 14 13 13-0645 |     |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow</b> <small>(33 14 13 13-0596)</small>                 |                        |                      |
| 33 14 13 13-0646 | EA  |     | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow   | 332.62                 | 43.98                |
| 33 14 13 13-0647 | EA  |     | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow   | 593.73                 | 52.68                |
| 33 14 13 13-0648 | EA  |     | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow   | 756.67                 | 77.17                |
| 33 14 13 13-0649 | EA  |     | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow   | 1,003.63               | 91.87                |
| 33 14 13 13-0650 | EA  |     | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 1,357.76               | 103.47               |
| 33 14 13 13-0651 | EA  |     | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 1,647.20               | 121.10               |
| 33 14 13 13-0652 | EA  |     | 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 2,631.72               | 136.38               |
| 33 14 13 13-0653 | EA  |     | 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 2,932.46               | 155.20               |
| 33 14 13 13-0654 | EA  |     | 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 3,933.32               | 217.51               |
| 33 14 13 13-0655 | EA  |     | 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 4,174.51               | 271.59               |
| 33 14 13 13-0656 | EA  |     | 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 5,392.86               | 362.12               |
| 33 14 13 13-0657 | EA  |     | 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 9,126.08               | 387.99               |
| 33 14 13 13-0658 | EA  |     | 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 11,952.88              | 403.27               |
| 33 14 13 13-0659 | EA  |     | 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 17,099.96              | 465.58               |
| 33 14 13 13-0660 | EA  |     | 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow  | 22,378.97              | 494.98               |
| 33 14 13 13-0661 |     |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0596)</small> |                        |                      |
| 33 14 13 13-0662 | EA  |     | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                       | 391.53                 | 43.98                |
| 33 14 13 13-0663 | EA  |     | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                       | 575.88                 | 52.68                |
| 33 14 13 13-0664 | EA  |     | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                       | 897.70                 | 77.17                |
| 33 14 13 13-0665 | EA  |     | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                       | 1,219.63               | 91.87                |
| 33 14 13 13-0666 | EA  |     | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 1,680.86               | 103.47               |
| 33 14 13 13-0667 | EA  |     | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 2,109.54               | 121.10               |
| 33 14 13 13-0668 | EA  |     | 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 3,788.48               | 136.38               |
| 33 14 13 13-0669 | EA  |     | 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 5,910.04               | 155.20               |
| 33 14 13 13-0670 | EA  |     | 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 6,755.59               | 217.51               |
| 33 14 13 13-0671 | EA  |     | 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 7,787.60               | 271.59               |
| 33 14 13 13-0672 | EA  |     | 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow                                      | 8,423.99               | 362.12               |
| 33 14 13 13-0673 |     |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0596)</small> |                        |                      |
| 33 14 13 13-0674 | EA  |     | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow                                       | 391.53                 | 43.98                |
| 33 14 13 13-0675 | EA  |     | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow                                       | 508.05                 | 52.68                |
| 33 14 13 13-0676 | EA  |     | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow                                       | 799.52                 | 77.17                |
| 33 14 13 13-0677 | EA  |     | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow                                       | 1,130.37               | 91.87                |
| 33 14 13 13-0678 | EA  |     | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow                                      | 1,500.57               | 103.47               |
| 33 14 13 13-0679 | EA  |     | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow                                      | 1,952.45               | 121.10               |







| MINOR                   | CSI  | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|--|-----|--|------------------------|----------------------|
| 33 14 13 13-0831        | EA   |     | 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 14,676.16              | 724.24               |
| 33 14 13 13-0832        | EA   |     | 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                     | 18,617.20              | 604.31               |
| 33 14 13 13-0833        | EA   |     | 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                     | 20,931.77              | 612.55               |
| 33 14 13 13-0834        | EA   |     | 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 22,173.07              | 619.60               |
| 33 14 13 13-0835        | EA   |     | 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 23,416.57              | 627.84               |
| 33 14 13 13-0836        | EA   |     | 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 25,178.30              | 640.76               |
| 33 14 13 13-0837        | EA   |     | 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 27,071.12              | 658.40               |
| 33 14 13 13-0838        | EA   |     | 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 27,741.96              | 688.97               |
| 33 14 13 13-0839        | EA   |     | 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 28,706.32              | 748.93               |
| 33 14 13 13-0840        | EA   |     | 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 30,055.97              | 808.89               |
| 33 14 13 13-0841        | EA   |     | 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 32,598.48              | 852.39               |
| 33 14 13 13-0842        | EA   |     | 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 35,987.07              | 694.85               |
| 33 14 13 13-0843        | EA   |     | 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 37,411.41              | 707.78               |
| 33 14 13 13-0844        | EA   |     | 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 38,825.82              | 725.41               |
| 33 14 13 13-0845        | EA   |     | 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 41,558.47              | 755.99               |
| 33 14 13 13-0846        | EA   |     | 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 44,347.22              | 815.94               |
| 33 14 13 13-0847        | EA   |     | 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 49,218.91              | 875.91               |
| 33 14 13 13-0848        | EA   |     | 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 55,194.21              | 919.41               |
| 33 14 13 13-0849        | EA   |     | 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 66,003.84              | 952.33               |
| 33 14 13 13-0850        | EA   |     | 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 58,065.43              | 853.57               |
| 33 14 13 13-0851        | EA   |     | 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 59,479.36              | 913.53               |
| 33 14 13 13-0852        | EA   |     | 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 63,553.49              | 957.03               |
| 33 14 13 13-0853        | EA   |     | 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 72,774.37              | 989.95               |
| 33 14 13 13-0854        | EA   |     | 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 85,982.26              | 1,008.76             |
| 33 14 13 13-0855        | EA   |     | 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 57,216.80              | 913.53               |
| 33 14 13 13-0856        | EA   |     | 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 64,859.00              | 973.48               |
| 33 14 13 13-0857        | EA   |     | 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 69,145.58              | 1,015.81             |
| 33 14 13 13-0858        | EA   |     | 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 78,921.62              | 1,049.91             |
| 33 14 13 13-0859        | EA   |     | 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 103,473.95             | 1,068.73             |
| 33 14 13 13-0860        | EA   |     | 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)                    | 113,671.09             | 1,098.12             |
| <b>33 14 13 13-0861</b> | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee</b> <small>(33 14 13 13-0596)</small> |     |  |                        |                      |
| 33 14 13 13-0862        | EA   |     | 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee  | 1,100.97               | 113.92               |
| 33 14 13 13-0863        | EA   |     | 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee  | 1,370.05               | 129.84               |
| 33 14 13 13-0864        | EA   |     | 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 1,972.15               | 139.91               |
| 33 14 13 13-0865        | EA   |     | 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 2,270.56               | 155.20               |
| 33 14 13 13-0866        | EA   |     | 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 3,005.67               | 181.06               |
| 33 14 13 13-0867        | EA   |     | 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 3,662.01               | 217.51               |
| 33 14 13 13-0868        | EA   |     | 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 4,319.99               | 278.64               |
| 33 14 13 13-0869        | EA   |     | 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 5,804.19               | 398.56               |
| 33 14 13 13-0870        | EA   |     | 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 6,770.01               | 518.49               |
| 33 14 13 13-0871        | EA   |     | 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee | 12,335.36              | 604.31               |
| <b>33 14 13 13-0872</b> | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross</b> <small>(33 14 13 13-0596)</small>                             |     |  |                        |                      |
| 33 14 13 13-0873        | EA   |     | 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 613.48                 | 87.97                |
| 33 14 13 13-0874        | EA   |     | 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 768.04                 | 95.72                |
| 33 14 13 13-0875        | EA   |     | 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 962.80                 | 96.77                |
| 33 14 13 13-0876        | EA   |     | 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,019.00               | 119.97               |
| 33 14 13 13-0877        | EA   |     | 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,193.87               | 129.84               |
| 33 14 13 13-0878        | EA   |     | 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,316.05               | 161.69               |
| 33 14 13 13-0879        | EA   |     | 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,267.61               | 142.10               |
| 33 14 13 13-0880        | EA   |     | 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,493.33               | 173.95               |
| 33 14 13 13-0881        | EA   |     | 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,476.03               | 186.19               |
| 33 14 13 13-0882        | EA   |     | 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 1,494.78               | 150.49               |
| 33 14 13 13-0883        | EA   |     | 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 1,673.89               | 181.06               |
| 33 14 13 13-0884        | EA   |     | 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 1,991.44               | 192.82               |
| 33 14 13 13-0885        | EA   |     | 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                            | 2,157.61               | 206.92               |
| 33 14 13 13-0886        | EA   |     | 12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                              | 1,924.91               | 163.42               |
| 33 14 13 13-0887        | EA   |     | 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 2,227.21               | 193.99               |
| 33 14 13 13-0888        | EA   |     | 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 2,418.02               | 205.75               |
| 33 14 13 13-0889        | EA   |     | 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                            | 2,823.39               | 219.85               |
| 33 14 13 13-0890        | EA   |     | 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                            | 3,226.75               | 232.79               |
| 33 14 13 13-0891        | EA   |     | 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 3,340.16               | 212.80               |
| 33 14 13 13-0892        | EA   |     | 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                             | 3,964.75               | 224.56               |
| 33 14 13 13-0893        | EA   |     | 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                            | 4,059.51               | 239.85               |
| 33 14 13 13-0894        | EA   |     | 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                            | 4,284.36               | 251.60               |
| 33 14 13 13-0895        | EA   |     | 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross                            | 4,749.32               | 271.59               |

## 33 Utilities

## 33 10 Water Utilities

## 33 14 Water Utility Transmission and Distribution



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0896 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 3,738.32                  | 241.02                  |
| 33 14 13 13-0897 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 4,280.78                  | 251.60                  |
| 33 14 13 13-0898 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 5,168.14                  | 266.89                  |
| 33 14 13 13-0899 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 5,782.16                  | 279.82                  |
| 33 14 13 13-0900 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 7,030.78                  | 298.64                  |
| 33 14 13 13-0901 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 7,336.08                  | 325.67                  |
| 33 14 13 13-0902 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 6,475.34                  | 284.52                  |
| 33 14 13 13-0903 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 6,851.81                  | 296.28                  |
| 33 14 13 13-0904 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 7,173.27                  | 310.39                  |
| 33 14 13 13-0905 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 7,794.42                  | 323.32                  |
| 33 14 13 13-0906 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 9,137.65                  | 342.13                  |
| 33 14 13 13-0907 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 9,719.67                  | 369.17                  |
| 33 14 13 13-0908 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 10,144.97                 | 413.85                  |
| 33 14 13 13-0909 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 8,141.74                  | 357.42                  |
| 33 14 13 13-0910 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 8,521.77                  | 368.00                  |
| 33 14 13 13-0911 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 8,780.75                  | 383.29                  |
| 33 14 13 13-0912 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 9,396.55                  | 396.21                  |
| 33 14 13 13-0913 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 9,547.31                  | 415.02                  |
| 33 14 13 13-0914 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 11,623.48                 | 442.07                  |
| 33 14 13 13-0915 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 12,048.79                 | 485.57                  |
| 33 14 13 13-0916 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 12,997.55                 | 558.46                  |
| 33 14 13 13-0917 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 11,151.45                 | 446.77                  |
| 33 14 13 13-0918 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 11,410.46                 | 458.53                  |
| 33 14 13 13-0919 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 11,849.37                 | 472.64                  |
| 33 14 13 13-0920 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 12,227.76                 | 485.57                  |
| 33 14 13 13-0921 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 12,435.64                 | 504.38                  |
| 33 14 13 13-0922 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 12,898.06                 | 531.42                  |
| 33 14 13 13-0923 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 17,214.92                 | 576.10                  |
| 33 14 13 13-0924 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 18,101.22                 | 647.82                  |
| 33 14 13 13-0925 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 19,914.91                 | 737.17                  |
| 33 14 13 13-0926 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 17,318.86                 | 593.73                  |
| 33 14 13 13-0927 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 17,661.76                 | 607.84                  |
| 33 14 13 13-0928 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 17,999.09                 | 620.77                  |
| 33 14 13 13-0929 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 18,396.19                 | 639.59                  |
| 33 14 13 13-0930 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 18,849.67                 | 667.81                  |
| 33 14 13 13-0931 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 19,373.16                 | 711.30                  |
| 33 14 13 13-0932 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 20,029.18                 | 783.02                  |
| 33 14 13 13-0933 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 25,843.32                 | 873.56                  |
| 33 14 13 13-0934 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 29,713.49                 | 1,008.76                |
| 33 14 13 13-0935 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....  | 24,302.97                 | 643.11                  |
| 33 14 13 13-0936 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 24,642.28                 | 657.23                  |
| 33 14 13 13-0937 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 24,934.97                 | 670.15                  |
| 33 14 13 13-0938 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 25,282.09                 | 690.15                  |
| 33 14 13 13-0939 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 25,687.40                 | 717.19                  |
| 33 14 13 13-0940 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 26,162.68                 | 760.68                  |
| 33 14 13 13-0941 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 26,774.06                 | 833.58                  |
| 33 14 13 13-0942 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 27,864.78                 | 922.93                  |
| 33 14 13 13-0943 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 37,665.12                 | 1,058.14                |
| 33 14 13 13-0944 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 41,423.49                 | 1,108.70                |
| 33 14 13 13-0945 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 32,736.87                 | 699.54                  |
| 33 14 13 13-0946 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 33,417.81                 | 718.36                  |
| 33 14 13 13-0947 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 33,810.60                 | 746.58                  |
| 33 14 13 13-0948 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 34,353.73                 | 790.08                  |
| 33 14 13 13-0949 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 35,334.64                 | 862.98                  |
| 33 14 13 13-0950 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 37,421.44                 | 952.33                  |
| 33 14 13 13-0951 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 45,508.07                 | 1,087.53                |
| 33 14 13 13-0952 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 59,641.57                 | 1,136.92                |
| 33 14 13 13-0953 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 63,946.41                 | 1,166.31                |
| 33 14 13 13-0954 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 44,356.79                 | 814.77                  |
| 33 14 13 13-0955 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 44,646.80                 | 833.58                  |
| 33 14 13 13-0956 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 45,034.24                 | 860.62                  |
| 33 14 13 13-0957 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 45,448.82                 | 904.12                  |
| 33 14 13 13-0958 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 45,995.96                 | 977.02                  |
| 33 14 13 13-0959 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 46,956.36                 | 1,066.37                |
| 33 14 13 13-0960 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 49,643.00                 | 1,201.57                |
| 33 14 13 13-0961 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 60,988.13                 | 1,252.13                |
| 33 14 13 13-0962 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 78,654.61                 | 1,281.53                |
| 33 14 13 13-0963 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross ..... | 83,744.56                 | 1,395.57                |

33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x  
Mechanical Joint Ductile Iron Reducers (33 14 13 13-0966)

|  |        |       |
|--|--------|-------|
| 33 14 13 13-0965 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... | 438.47 | 47.86 |
| 33 14 13 13-0966 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... | 613.93 | 59.99 |
| 33 14 13 13-0967 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... | 675.15 | 63.69 |
| 33 14 13 13-0968 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer ..... | 887.45 | 72.27 |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-0969 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....   | 921.78                    | 84.52                   |
| 33 14 13 13-0970 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 1,088.90                  | 76.42                   |
| 33 14 13 13-0971 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 1,138.65                  | 88.18                   |
| 33 14 13 13-0972 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 1,184.34                  | 96.41                   |
| 33 14 13 13-0973 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 1,259.52                  | 84.65                   |
| 33 14 13 13-0974 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 1,393.19                  | 96.41                   |
| 33 14 13 13-0975 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 1,415.67                  | 103.47                  |
| 33 14 13 13-0976 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,478.80                  | 111.69                  |
| 33 14 13 13-0977 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 2,183.82                  | 109.35                  |
| 33 14 13 13-0978 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 2,195.58                  | 116.40                  |
| 33 14 13 13-0979 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,908.83                  | 124.62                  |
| 33 14 13 13-0980 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 1,947.36                  | 131.68                  |
| 33 14 13 13-0981 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 2,618.20                  | 126.98                  |
| 33 14 13 13-0982 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 2,538.93                  | 135.20                  |
| 33 14 13 13-0983 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,382.48                  | 142.26                  |
| 33 14 13 13-0984 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,353.18                  | 149.32                  |
| 33 14 13 13-0985 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 2,661.83                  | 162.25                  |
| 33 14 13 13-0986 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 2,843.82                  | 164.60                  |
| 33 14 13 13-0987 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,208.62                  | 172.83                  |
| 33 14 13 13-0988 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,063.30                  | 179.88                  |
| 33 14 13 13-0989 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,664.70                  | 192.82                  |
| 33 14 13 13-0990 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,204.73                  | 211.63                  |
| 33 14 13 13-0991 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....  | 3,786.74                  | 225.73                  |
| 33 14 13 13-0992 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,815.95                  | 232.79                  |
| 33 14 13 13-0993 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,463.54                  | 241.02                  |
| 33 14 13 13-0994 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,459.80                  | 253.96                  |
| 33 14 13 13-0995 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,372.92                  | 271.59                  |
| 33 14 13 13-0996 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 3,992.00                  | 302.16                  |
| 33 14 13 13-0997 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 4,768.56                  | 300.98                  |
| 33 14 13 13-0998 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 4,838.01                  | 313.91                  |
| 33 14 13 13-0999 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 4,922.51                  | 331.55                  |
| 33 14 13 13-1000 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 4,843.60                  | 362.12                  |
| 33 14 13 13-1001 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 5,586.59                  | 422.08                  |
| 33 14 13 13-1002 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 8,718.18                  | 373.88                  |
| 33 14 13 13-1003 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 9,087.33                  | 404.44                  |
| 33 14 13 13-1004 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 8,746.76                  | 465.58                  |
| 33 14 13 13-1005 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 7,399.09                  | 525.54                  |
| 33 14 13 13-1006 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 11,498.35                 | 498.50                  |
| 33 14 13 13-1007 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 10,677.30                 | 558.46                  |
| 33 14 13 13-1008 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 11,399.00                 | 601.97                  |
| 33 14 13 13-1009 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 17,046.27                 | 426.79                  |
| 33 14 13 13-1010 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... | 16,942.37                 | 457.35                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 33 14 13 13-1011        | EA  | 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 16,978.46                 | 517.32                  |
| 33 14 13 13-1012        | EA  | 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 17,639.05                 | 577.27                  |
| 33 14 13 13-1013        | EA  | 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 14,397.78                 | 620.77                  |
| 33 14 13 13-1014        | EA  | 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 15,066.13                 | 653.69                  |
| 33 14 13 13-1015        | EA  | 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 21,491.76                 | 456.18                  |
| 33 14 13 13-1016        | EA  | 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 20,791.63                 | 486.74                  |
| 33 14 13 13-1017        | EA  | 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 19,737.01                 | 546.71                  |
| 33 14 13 13-1018        | EA  | 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 20,308.35                 | 607.84                  |
| 33 14 13 13-1019        | EA  | 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 24,345.01                 | 650.17                  |
| 33 14 13 13-1020        | EA  | 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 21,039.69                 | 683.08                  |
| 33 14 13 13-1021        | EA  | 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....                               | 23,145.91                 | 701.90                  |
| <b>33 14 13 13-1022</b> |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps</b> <small>(33 14 13 13-0596)</small>                           |                           |                         |
| 33 14 13 13-1023        | EA  | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....  | 397.68                    | 101.05                  |
| 33 14 13 13-1024        | EA  | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....  | 479.56                    | 118.82                  |
| 33 14 13 13-1025        | EA  | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....  | 702.98                    | 148.22                  |
| 33 14 13 13-1026        | EA  | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....  | 943.93                    | 169.04                  |
| 33 14 13 13-1027        | EA  | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 1,257.68                  | 258.65                  |
| 33 14 13 13-1028        | EA  | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 1,587.87                  | 282.18                  |
| 33 14 13 13-1029        | EA  | 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 1,805.55                  | 310.39                  |
| 33 14 13 13-1030        | EA  | 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 2,198.77                  | 344.49                  |
| 33 14 13 13-1031        | EA  | 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 2,576.47                  | 387.99                  |
| 33 14 13 13-1032        | EA  | 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 3,108.52                  | 443.24                  |
| 33 14 13 13-1033        | EA  | 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 3,988.10                  | 517.32                  |
| 33 14 13 13-1034        | EA  | 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 7,250.97                  | 620.77                  |
| 33 14 13 13-1035        | EA  | 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 11,897.15                 | 775.97                  |
| 33 14 13 13-1036        | EA  | 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 17,155.62                 | 931.17                  |
| 33 14 13 13-1037        | EA  | 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....   | 20,430.98                 | 1,034.62                |
| <b>33 14 13 13-1038</b> |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug</b> <small>(33 14 13 13-0596)</small>                           |                           |                         |
| 33 14 13 13-1039        | EA  | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....  | 399.47                    | 101.05                  |
| 33 14 13 13-1040        | EA  | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....  | 497.41                    | 118.82                  |
| 33 14 13 13-1041        | EA  | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....  | 749.40                    | 148.22                  |
| 33 14 13 13-1042        | EA  | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....  | 990.34                    | 169.04                  |
| 33 14 13 13-1043        | EA  | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 1,523.67                  | 258.65                  |
| 33 14 13 13-1044        | EA  | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 1,648.56                  | 282.18                  |
| 33 14 13 13-1045        | EA  | 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 2,192.92                  | 310.39                  |
| 33 14 13 13-1046        | EA  | 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 2,646.83                  | 344.49                  |
| 33 14 13 13-1047        | EA  | 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 3,149.50                  | 387.99                  |
| 33 14 13 13-1048        | EA  | 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 3,883.26                  | 443.24                  |
| 33 14 13 13-1049        | EA  | 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 5,091.30                  | 517.32                  |
| 33 14 13 13-1050        | EA  | 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 8,775.46                  | 620.77                  |
| 33 14 13 13-1051        | EA  | 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 12,845.05                 | 775.97                  |
| 33 14 13 13-1052        | EA  | 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 17,275.22                 | 931.17                  |
| 33 14 13 13-1053        | EA  | 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....   | 22,967.64                 | 1,034.62                |
| <b>33 14 13 13-1054</b> |     | <b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters</b> <small>(33 14 13 13-0596)</small> |                           |                         |
| 33 14 13 13-1055        | EA  | 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                  | 541.57                    | 153.61                  |
| 33 14 13 13-1056        | EA  | 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                  | 717.56                    | 177.62                  |
| 33 14 13 13-1057        | EA  | 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                  | 988.43                    | 222.94                  |
| 33 14 13 13-1058        | EA  | 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                  | 1,300.75                  | 253.57                  |
| 33 14 13 13-1059        | EA  | 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                 | 1,923.12                  | 387.99                  |
| 33 14 13 13-1060        | EA  | 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                 | 2,297.89                  | 423.26                  |
| 33 14 13 13-1061        | EA  | 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                 | 3,008.22                  | 465.58                  |
| 33 14 13 13-1062        | EA  | 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....                                 | 3,415.08                  | 517.32                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-1063 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 4,484.15                  | 581.97                  |
| 33 14 13 13-1064 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 5,201.00                  | 665.45                  |
| 33 14 13 13-1065 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 6,297.23                  | 775.97                  |
| 33 14 13 13-1066 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 9,916.96                  | 931.17                  |
| 33 14 13 13-1067 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 13,493.59                 | 1,163.96                |
| 33 14 13 13-1068 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 18,368.99                 | 1,329.73                |
| 33 14 13 13-1069 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....           | 22,833.89                 | 1,551.94                |
| <br>   |                           |                         |
| <b>33 14 13 13-1070 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves <small>(33 14 13 13-0596)</small></b> |                           |                         |
| 33 14 13 13-1071 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                              | 562.99                    | 153.61                  |
| 33 14 13 13-1072 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                              | 690.78                    | 177.62                  |
| 33 14 13 13-1073 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                              | 1,018.78                  | 222.94                  |
| 33 14 13 13-1074 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                              | 1,382.86                  | 253.57                  |
| 33 14 13 13-1075 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 1,808.87                  | 387.99                  |
| 33 14 13 13-1076 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 2,190.78                  | 423.26                  |
| 33 14 13 13-1077 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 2,779.73                  | 465.58                  |
| 33 14 13 13-1078 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 3,293.69                  | 517.32                  |
| 33 14 13 13-1079 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 3,934.34                  | 581.97                  |
| 33 14 13 13-1080 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 4,581.56                  | 665.45                  |
| 33 14 13 13-1081 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 5,729.56                  | 775.97                  |
| 33 14 13 13-1082 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 9,622.41                  | 931.17                  |
| 33 14 13 13-1083 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 12,509.99                 | 1,163.96                |
| 33 14 13 13-1084 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 16,292.37                 | 1,328.55                |
| 33 14 13 13-1085 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....                             | 24,217.35                 | 1,551.94                |
| <br>   |                           |                         |
| <b>33 14 13 13-1086 Push-On Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small></b>  |                           |                         |
| <br>   |                           |                         |
| <b>33 14 13 13-1087 Push-On Joint Ductile Iron Pipe <small>(33 14 13 13-1086)</small></b>  |                           |                         |
| Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.  |                           |                         |
| 33 14 13 13-1088 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....   | 36.10                     | 10.11                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add   | 14.55                     |                         |
| For Cement Mortar Lining (CML), Add  | 2.08                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add  | 11.23                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 3.74                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 1.56                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -1.81                     |                         |
| For Class 51, Add  | 3.03                      |                         |
| For Class 52, Add  | 6.52                      |                         |
| For Class 53, Add  | 11.72                     |                         |
| For Class 54, Add  | 16.70                     |                         |
| For Class 55, Add  | 19.22                     |                         |
| For Class 56, Add  | 21.70                     |                         |
| 33 14 13 13-1089 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....   | 39.59                     | 11.14                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add   | 15.97                     |                         |
| For Cement Mortar Lining (CML), Add  | 2.28                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add  | 12.32                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add   | 4.11                      |                         |
| Note: ANSI/AWWA C104/A21.4   |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add   | 1.71                      |                         |
| Note: ANSI/AWWA C151/A21.51  |                           |                         |
| For >1,000, Deduct   | -1.98                     |                         |
| For Class 51, Add  | 3.32                      |                         |
| For Class 52, Add  | 7.15                      |                         |
| For Class 53, Add  | 12.85                     |                         |
| For Class 54, Add  | 18.32                     |                         |
| For Class 55, Add  | 21.09                     |                         |
| For Class 56, Add  | 23.81                     |                         |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-1090 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....  | 49.56                     | 12.25                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 21.83                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 3.12                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 16.84                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 5.61                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 2.34                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -2.48                     |                         |
| For Class 51, Add   | 4.48                      |                         |
| For Class 52, Add   | 9.66                      |                         |
| For Class 53, Add   | 17.40                     |                         |
| For Class 54, Add   | 24.82                     |                         |
| For Class 55, Add   | 28.55                     |                         |
| For Class 56, Add   | 32.21                     |                         |
| 33 14 13 13-1091 LF 10", Class 50, Push-On Joint Ductile Iron Pipe..... | 70.44                     | 17.52                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 26.39                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 4.40                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 22.00                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 7.92                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 3.30                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -3.52                     |                         |
| For Class 51, Add   | 6.33                      |                         |
| For Class 52, Add   | 13.64                     |                         |
| For Class 53, Add   | 24.57                     |                         |
| For Class 54, Add   | 35.04                     |                         |
| For Class 55, Add   | 40.30                     |                         |
| For Class 56, Add   | 45.47                     |                         |
| 33 14 13 13-1092 LF 12", Class 50, Push-On Joint Ductile Iron Pipe..... | 81.84                     | 19.40                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 26.23                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 5.25                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 20.98                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 9.44                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 3.93                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -4.09                     |                         |
| For Class 51, Add   | 7.52                      |                         |
| For Class 52, Add   | 16.21                     |                         |
| For Class 53, Add   | 29.21                     |                         |
| For Class 54, Add   | 41.67                     |                         |
| For Class 55, Add   | 47.91                     |                         |
| For Class 56, Add   | 54.05                     |                         |
| 33 14 13 13-1093 LF 14", Class 50, Push-On Joint Ductile Iron Pipe..... | 99.90                     | 21.87                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 29.42                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 6.69                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 22.73                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 12.03                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 5.01                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -5.00                     |                         |
| For Class 51, Add   | 9.53                      |                         |
| For Class 52, Add   | 20.56                     |                         |
| For Class 53, Add   | 37.07                     |                         |
| For Class 54, Add   | 52.89                     |                         |
| For Class 55, Add   | 60.80                     |                         |
| For Class 56, Add   | 68.57                     |                         |
| 33 14 13 13-1094 LF 16", Class 50, Push-On Joint Ductile Iron Pipe..... | 118.46                    | 24.93                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 33.10                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 8.07                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 25.02                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 14.53                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 6.05                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -5.92                     |                         |
| For Class 51, Add   | 11.47                     |                         |
| For Class 52, Add   | 24.76                     |                         |
| For Class 53, Add   | 44.67                     |                         |
| For Class 54, Add   | 63.75                     |                         |
| For Class 55, Add   | 73.27                     |                         |
| For Class 56, Add   | 82.62                     |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-1095 LF 18", Class 50, Push-On Joint Ductile Iron Pipe..... | 137.84                    | 29.16                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 38.44                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 9.38                      |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 29.06                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 16.88                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 7.03                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -6.89                     |                         |
| For Class 51, Add   | 13.33                     |                         |
| For Class 52, Add   | 28.77                     |                         |
| For Class 53, Add   | 51.89                     |                         |
| For Class 54, Add   | 74.05                     |                         |
| For Class 55, Add   | 85.12                     |                         |
| For Class 56, Add   | 95.98                     |                         |
| 33 14 13 13-1096 LF 20", Class 50, Push-On Joint Ductile Iron Pipe..... | 158.95                    | 34.92                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 40.30                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 10.61                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 29.69                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 19.09                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 7.95                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -7.95                     |                         |
| For Class 51, Add   | 15.12                     |                         |
| For Class 52, Add   | 32.62                     |                         |
| For Class 53, Add   | 58.82                     |                         |
| For Class 54, Add   | 83.92                     |                         |
| For Class 55, Add   | 96.47                     |                         |
| For Class 56, Add   | 108.80                    |                         |
| 33 14 13 13-1097 LF 24", Class 50, Push-On Joint Ductile Iron Pipe..... | 201.12                    | 43.62                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 41.83                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 13.49                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For 40 Mil Ceramic Epoxy Lining (P401), Add                             | 28.34                     |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 24.29                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 10.12                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -10.06                    |                         |
| For Class 51, Add   | 19.22                     |                         |
| For Class 52, Add   | 41.47                     |                         |
| For Class 53, Add   | 74.79                     |                         |
| For Class 54, Add   | 106.72                    |                         |
| For Class 55, Add   | 122.67                    |                         |
| For Class 56, Add   | 138.34                    |                         |
| 33 14 13 13-1098 LF 30", Class 50, Push-On Joint Ductile Iron Pipe..... | 238.48                    | 46.56                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 52.06                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 16.79                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 30.23                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 12.59                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -11.92                    |                         |
| For Class 51, Add   | 23.77                     |                         |
| For Class 52, Add   | 51.32                     |                         |
| For Class 53, Add   | 92.64                     |                         |
| For Class 54, Add   | 132.23                    |                         |
| For Class 55, Add   | 151.94                    |                         |
| For Class 56, Add   | 171.29                    |                         |
| 33 14 13 13-1099 LF 36", Class 50, Push-On Joint Ductile Iron Pipe..... | 296.09                    | 49.50                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                | 68.53                     |                         |
| For Cement Mortar Lining (CML), Add                                     | 22.11                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                              | 39.79                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                          | 16.58                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -14.80                    |                         |
| For Class 51, Add   | 31.07                     |                         |
| For Class 52, Add   | 67.12                     |                         |
| For Class 53, Add   | 121.29                    |                         |
| For Class 54, Add   | 173.19                    |                         |
| For Class 55, Add   | 198.91                    |                         |
| For Class 56, Add   | 224.16                    |                         |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-1100 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....               | 361.26                    | 52.44                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                              | 87.39                     |                         |
| For Cement Mortar Lining (CML), Add   | 28.19                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 50.74                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 21.14                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -18.06                    |                         |
| For Class 51, Add   | 39.41                     |                         |
| For Class 52, Add   | 85.17                     |                         |
| For Class 53, Add   | 154.05                    |                         |
| For Class 54, Add   | 220.02                    |                         |
| For Class 55, Add   | 252.61                    |                         |
| For Class 56, Add   | 284.61                    |                         |
| 33 14 13 13-1101 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....               | 435.27                    | 55.26                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                              | 108.95                    |                         |
| For Cement Mortar Lining (CML), Add   | 35.14                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 63.26                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 26.36                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -21.76                    |                         |
| For Class 51, Add   | 48.95                     |                         |
| For Class 52, Add   | 105.81                    |                         |
| For Class 53, Add   | 191.48                    |                         |
| For Class 54, Add   | 273.54                    |                         |
| For Class 55, Add   | 313.98                    |                         |
| For Class 56, Add   | 353.69                    |                         |
| 33 14 13 13-1102 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....               | 552.40                    | 58.20                   |
| For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add                              | 143.91                    |                         |
| For Cement Mortar Lining (CML), Add   | 46.42                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 83.56                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 34.82                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| For >1,000, Deduct  | -27.62                    |                         |
| For Class 51, Add   | 64.38                     |                         |
| For Class 52, Add   | 139.20                    |                         |
| For Class 53, Add   | 252.08                    |                         |
| For Class 54, Add   | 360.19                    |                         |
| For Class 55, Add   | 413.33                    |                         |
| For Class 56, Add   | 465.49                    |                         |
| <b>33 14 13 13-1103 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1086)</b> |                           |                         |
| 33 14 13 13-1104 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron .....              | 173.78                    | 39.44                   |
| For Cement Mortar Lining (CML), Add   | 11.40                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 20.52                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 8.55                      |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1105 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron .....              | 252.54                    | 58.19                   |
| For Cement Mortar Lining (CML), Add   | 16.43                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 29.58                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 12.33                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1106 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron .....              | 332.69                    | 69.08                   |
| For Cement Mortar Lining (CML), Add   | 22.80                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 41.03                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 17.10                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1107 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron .....             | 504.62                    | 77.37                   |
| For Cement Mortar Lining (CML), Add   | 34.46                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 62.03                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 25.85                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1108 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron .....             | 643.51                    | 90.76                   |
| For Cement Mortar Lining (CML), Add   | 45.59                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 82.07                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 34.19                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  |  |              |
|--|--|--------------|
|  | <b>Utilities</b>                                   | <b>33</b>    |
|  | <b>Water Utilities</b>                             | <b>33 10</b> |
|  | <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 33 14 13 13-1109 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,210.41<br>99.99<br>179.98<br>74.99   | 101.82                  |
| 33 14 13 13-1110 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,369.34<br>112.89<br>203.19<br>84.66  | 116.40                  |
| 33 14 13 13-1111 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,118.10<br>178.14<br>320.66<br>133.61 | 162.96                  |
| 33 14 13 13-1112 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,395.07<br>198.43<br>357.18<br>148.82 | 205.40                  |
| 33 14 13 13-1113 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 2,990.83<br>247.74<br>445.93<br>185.80 | 256.77                  |
| <b>33 14 13 13-1114 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1086)</b>   |  |                         |
| 33 14 13 13-1115 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 147.86<br>8.81<br>15.85<br>6.61        | 39.44                   |
| 33 14 13 13-1116 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 217.68<br>12.95<br>23.31<br>9.71       | 58.19                   |
| 33 14 13 13-1117 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51  | 295.19<br>19.05<br>34.28<br>14.28      | 69.08                   |
| 33 14 13 13-1118 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 452.84<br>29.28<br>52.71<br>21.96      | 77.37                   |
| 33 14 13 13-1119 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 577.54<br>39.00<br>70.19<br>29.25      | 90.76                   |
| 33 14 13 13-1120 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 798.43<br>58.79<br>105.83<br>44.09     | 101.82                  |
| 33 14 13 13-1121 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron .....<br>For Cement Mortar Lining (CML), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Fusion Bonded Epoxy Lining (206N), Add<br>Note: ANSI/AWWA C104/A21.4<br>For Bituminous Or Coal Tar Coating, 1 Mil, Add<br>Note: ANSI/AWWA C151/A21.51 | 1,153.61<br>91.31<br>164.36<br>68.48   | 116.40                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-1122 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron ..... | 1,350.65                  | 162.96                  |
| For Cement Mortar Lining (CML), Add                                       | 101.40                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 182.52                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 76.05                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1123 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron ..... | 1,869.64                  | 205.40                  |
| For Cement Mortar Lining (CML), Add                                       | 145.89                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 262.60                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 109.42                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1124 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron ..... | 2,321.61                  | 256.77                  |
| For Cement Mortar Lining (CML), Add                                       | 180.82                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 325.47                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 135.61                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| <b>33 14 13 13-1125 Push-On Joint Ductile Iron Tee</b> (33 14 13 13-1086) |                           |                         |
| 33 14 13 13-1126 EA 4" Tee, Push-On Joint Ductile Iron.....               | 264.48                    | 58.19                   |
| For Cement Mortar Lining (CML), Add                                       | 17.63                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 31.73                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 13.22                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1127 EA 6" Tee, Push-On Joint Ductile Iron.....               | 370.81                    | 85.50                   |
| For Cement Mortar Lining (CML), Add                                       | 24.12                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 43.42                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 18.09                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1128 EA 8" Tee, Push-On Joint Ductile Iron.....               | 499.11                    | 103.63                  |
| For Cement Mortar Lining (CML), Add                                       | 34.20                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 61.55                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 25.65                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1129 EA 10" Tee, Push-On Joint Ductile Iron.....              | 714.45                    | 117.57                  |
| For Cement Mortar Lining (CML), Add                                       | 53.81                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 96.86                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 40.36                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1130 EA 12" Tee, Push-On Joint Ductile Iron.....              | 884.32                    | 135.56                  |
| For Cement Mortar Lining (CML), Add                                       | 67.86                     |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 122.14                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 50.89                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1131 EA 14" Tee, Push-On Joint Ductile Iron.....              | 1,391.53                  | 162.96                  |
| For Cement Mortar Lining (CML), Add                                       | 114.46                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 206.03                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 85.85                     |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1132 EA 16" Tee, Push-On Joint Ductile Iron.....              | 1,992.69                  | 203.75                  |
| For Cement Mortar Lining (CML), Add                                       | 168.41                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 303.13                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 126.30                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1133 EA 18" Tee, Push-On Joint Ductile Iron.....              | 2,513.86                  | 271.83                  |
| For Cement Mortar Lining (CML), Add                                       | 210.20                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 378.36                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 157.65                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1134 EA 20" Tee, Push-On Joint Ductile Iron.....              | 2,969.01                  | 331.67                  |
| For Cement Mortar Lining (CML), Add                                       | 246.65                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add                                | 443.97                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add                            | 184.99                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST              | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 33 14 13 13-1135 EA 24" Tee, Push-On Joint Ductile Iron.....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>                    | 3,877.05<br>324.90<br>584.82<br>243.67 | 414.56                  |
| <b>33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters</b> (33 14 13 13-1086)  |  |                         |
| 33 14 13 13-1137 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 435.87<br>22.86<br>41.14<br>17.14      | 136.82                  |
| 33 14 13 13-1138 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 533.72<br>27.71<br>49.87<br>20.78      | 169.41                  |
| 33 14 13 13-1139 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i>  | 697.71<br>39.83<br>71.69<br>29.87      | 197.58                  |
| 33 14 13 13-1140 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 960.38<br>51.95<br>93.51<br>38.96      | 290.99                  |
| 33 14 13 13-1141 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,161.90<br>65.80<br>118.44<br>49.35   | 332.61                  |
| 33 14 13 13-1142 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,339.18<br>79.66<br>143.38<br>59.74   | 358.12                  |
| 33 14 13 13-1143 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,592.20<br>100.44<br>180.78<br>75.33  | 387.99                  |
| 33 14 13 13-1144 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 1,882.93<br>117.75<br>211.95<br>88.31  | 465.58                  |
| 33 14 13 13-1145 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,186.44<br>140.26<br>252.47<br>105.20 | 517.32                  |
| 33 14 13 13-1146 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 2,739.94<br>183.55<br>330.40<br>137.67 | 596.91                  |
| 33 14 13 13-1147 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron .....<br><i>For Cement Mortar Lining (CML), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Fusion Bonded Epoxy Lining (206N), Add</i><br><i>Note: ANSI/AWWA C104/A21.4</i><br><i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i><br><i>Note: ANSI/AWWA C151/A21.51</i> | 4,379.54<br>329.43<br>592.97<br>247.07 | 716.25                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 13-1148 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron .....                                     | 6,056.95                  | 895.31                  |
| For Cement Mortar Lining (CML), Add   | 470.04                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 846.06                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 352.53                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1149 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron .....                                     | 7,653.99                  | 1,034.62                |
| For Cement Mortar Lining (CML), Add   | 608.64                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,095.55                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 456.48                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1150 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron .....                                     | 9,769.09                  | 1,330.20                |
| For Cement Mortar Lining (CML), Add   | 775.36                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,395.65                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 581.52                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| 33 14 13 13-1151 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron .....                                     | 11,867.77                 | 1,552.30                |
| For Cement Mortar Lining (CML), Add   | 951.57                    |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Fusion Bonded Epoxy Lining (206N), Add  | 1,712.83                  |                         |
| Note: ANSI/AWWA C104/A21.4  |                           |                         |
| For Bituminous Or Coal Tar Coating, 1 Mil, Add  | 713.68                    |                         |
| Note: ANSI/AWWA C151/A21.51   |                           |                         |
| <b>33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1086)</b>                   |                           |                         |
| Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.       |                           |                         |
| 33 14 13 13-1153 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                 | 39.71                     | 21.31                   |
| 33 14 13 13-1154 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                 | 53.28                     | 27.80                   |
| 33 14 13 13-1155 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                 | 70.39                     | 28.77                   |
| 33 14 13 13-1156 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 80.89                     | 30.55                   |
| 33 14 13 13-1157 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 94.58                     | 33.95                   |
| 33 14 13 13-1158 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 116.25                    | 38.19                   |
| 33 14 13 13-1159 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 136.19                    | 43.64                   |
| 33 14 13 13-1160 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 152.20                    | 47.29                   |
| 33 14 13 13-1161 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 178.56                    | 56.74                   |
| 33 14 13 13-1162 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 208.32                    | 58.93                   |
| 33 14 13 13-1163 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 260.43                    | 65.47                   |
| 33 14 13 13-1164 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 330.13                    | 70.92                   |
| 33 14 13 13-1165 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 400.98                    | 77.60                   |
| 33 14 13 13-1166 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 470.28                    | 87.29                   |
| 33 14 13 13-1167 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....                                | 632.55                    | 94.67                   |
| <b>33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1086)</b> |                           |                         |
| 33 14 13 13-1169 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400) .....                                 | 247.08                    | 79.36                   |
| 33 14 13 13-1170 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600) .....                                 | 325.24                    | 96.88                   |
| 33 14 13 13-1171 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800) .....                                 | 418.18                    | 118.16                  |
| 33 14 13 13-1172 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000) .....                                | 627.24                    | 144.14                  |
| 33 14 13 13-1173 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200) .....                                | 777.74                    | 175.77                  |
| 33 14 13 13-1174 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400) .....                                | 1,333.01                  | 214.45                  |
| 33 14 13 13-1175 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600) .....                                | 1,523.31                  | 261.72                  |
| 33 14 13 13-1176 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800) .....                                | 1,731.25                  | 319.21                  |
| 33 14 13 13-1177 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000) .....                                | 2,349.43                  | 389.51                  |
| 33 14 13 13-1178 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400) .....                                | 2,994.71                  | 475.10                  |
| 33 14 13 13-1179 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000) .....                                | 5,147.66                  | 579.74                  |
| 33 14 13 13-1180 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600) .....                                | 7,293.70                  | 707.19                  |
| 33 14 13 13-1181 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200) .....                                | 13,212.05                 | 862.86                  |
| 33 14 13 13-1182 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800) .....                                | 17,086.72                 | 1,052.62                |
| <b>33 14 13 13-1183 Ductile Iron Pipe Repair (33 14 13 13-0001)</b>   |                           |                         |
| See CSI section 33 14 13 13-0002 for mechanical joint fittings.   |                           |                         |
| <b>33 14 13 13-1184 Ductile Iron Pipe Repair (33 14 13 13-1183)</b>   |                           |                         |
| Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.           |                           |                         |
| 33 14 13 13-1185 EA 30" Diameter Mechanical Ductile Iron Push Joint .....   | 2,806.86                  |                         |
| 33 14 13 13-1186 EA 36" Diameter Mechanical Ductile Iron Push Joint .....   | 3,526.65                  |                         |
| 33 14 13 13-1187 EA 42" Diameter Mechanical Ductile Iron Push Joint .....   | 4,374.73                  |                         |
| 33 14 13 13-1188 EA 48" Diameter Mechanical Ductile Iron Push Joint .....   | 5,467.04                  |                         |
| 33 14 13 13-1189 EA 54" Diameter Mechanical Ductile Iron Push Joint .....   | 7,818.87                  |                         |
| <b>33 14 13 13-1190 WEKO Seals (33 14 13 13-1183)</b>   |                           |                         |
| Note: Internal joint seal.  |                           |                         |
| 33 14 13 13-1191 EA 16" WEKO Internal Joint Seal .....  | 1,471.19                  | 243.34                  |
| For Extra Wide Seals, Add   | 88.44                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 13-1192 EA 18" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 1,565.93<br>89.47         | 256.95                  |
| 33 14 13 13-1193 EA 20" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 1,660.47<br>90.50         | 270.56                  |
| 33 14 13 13-1194 EA 24" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 1,762.73<br>92.14         | 292.21                  |
| 33 14 13 13-1195 EA 30" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 1,827.45<br>93.78         | 313.85                  |
| 33 14 13 13-1196 EA 36" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 1,924.76<br>95.83         | 340.91                  |
| 33 14 13 13-1197 EA 42" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 2,058.44<br>98.29         | 373.38                  |
| 33 14 13 13-1198 EA 48" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 2,221.48<br>100.34        | 400.43                  |
| 33 14 13 13-1199 EA 54" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 2,308.74<br>101.98        | 422.08                  |
| 33 14 13 13-1200 EA 60" WEKO Internal Joint Seal.....<br><i>For Extra Wide Seals, Add</i>  | 2,416.15<br>104.44        | 454.55                  |
| <br><b>33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)</b>   |                           |                         |
| 33 14 13 23-0001 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)<br>Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green. |                           |                         |
| 33 14 13 23-0002 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)   |                           |                         |
| 33 14 13 23-0003 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....   | 10.32                     | 3.68                    |
| 33 14 13 23-0004 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....   | 14.98                     | 4.46                    |
| 33 14 13 23-0005 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....   | 20.48                     | 5.02                    |
| 33 14 13 23-0006 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....  | 26.90                     | 5.57                    |
| 33 14 13 23-0007 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....  | 34.79                     | 6.25                    |
| 33 14 13 23-0008 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)   |                           |                         |
| 33 14 13 23-0009 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....   | 11.39                     | 3.68                    |
| 33 14 13 23-0010 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....   | 17.19                     | 4.46                    |
| 33 14 13 23-0011 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....   | 24.20                     | 5.02                    |
| 33 14 13 23-0012 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....  | 32.69                     | 5.57                    |
| 33 14 13 23-0013 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....  | 42.87                     | 6.25                    |
| 33 14 13 23-0014 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)   |                           |                         |
| 33 14 13 23-0015 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....   | 12.44                     | 3.68                    |
| 33 14 13 23-0016 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....   | 19.38                     | 4.46                    |
| 33 14 13 23-0017 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....   | 27.92                     | 5.02                    |
| 33 14 13 23-0018 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....  | 38.35                     | 5.57                    |
| 33 14 13 23-0019 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....  | 50.95                     | 6.25                    |
| 33 14 13 23-0020 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)  |                           |                         |
| 33 14 13 23-0021 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 54.61                     | 9.36                    |
| 33 14 13 23-0022 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 66.58                     | 11.14                   |
| 33 14 13 23-0023 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 89.29                     | 13.37                   |
| 33 14 13 23-0024 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 128.96                    | 15.60                   |
| 33 14 13 23-0025 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 177.95                    | 17.83                   |
| 33 14 13 23-0026 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 225.43                    | 18.95                   |
| 33 14 13 23-0027 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....   | 285.47                    | 20.39                   |
| 33 14 13 23-0028 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)   |                           |                         |
| 33 14 13 23-0029 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 40.31                     | 7.02                    |
| 33 14 13 23-0030 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 50.56                     | 7.80                    |
| 33 14 13 23-0031 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 62.70                     | 9.36                    |
| 33 14 13 23-0032 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 77.08                     | 11.14                   |
| 33 14 13 23-0033 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 105.49                    | 13.37                   |
| 33 14 13 23-0034 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 152.19                    | 15.60                   |
| 33 14 13 23-0035 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 209.07                    | 17.83                   |
| 33 14 13 23-0036 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 277.18                    | 18.95                   |
| 33 14 13 23-0037 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....  | 352.62                    | 20.39                   |
| 33 14 13 23-0038 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)   |                           |                         |
| 33 14 13 23-0039 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 46.54                     | 7.02                    |
| 33 14 13 23-0040 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 59.20                     | 7.80                    |
| 33 14 13 23-0041 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 73.43                     | 9.36                    |
| 33 14 13 23-0042 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 91.01                     | 11.14                   |
| 33 14 13 23-0043 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 125.49                    | 13.37                   |
| 33 14 13 23-0044 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 182.23                    | 15.60                   |
| 33 14 13 23-0045 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 252.92                    | 17.83                   |
| 33 14 13 23-0046 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 329.13                    | 18.95                   |
| 33 14 13 23-0047 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....  | 420.41                    | 20.39                   |



|              |  |
|--------------|--|
| <b>33</b>    | <b>Utilities</b>                                   |
| <b>33 10</b> | <b>Water Utilities</b>                             |
| <b>33 14</b> | <b>Water Utility Transmission and Distribution</b> |



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 33 14 13 23-0048 |     |     | <b>AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0001)                  |                        |                      |
| 33 14 13 23-0049 | LF  |     | 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 57.18                  | 7.02                 |
| 33 14 13 23-0050 | LF  |     | 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 71.84                  | 7.80                 |
| 33 14 13 23-0051 | LF  |     | 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 89.71                  | 9.36                 |
| 33 14 13 23-0052 | LF  |     | 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 110.66                 | 11.14                |
| 33 14 13 23-0053 | LF  |     | 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 153.82                 | 13.37                |
| 33 14 13 23-0054 | LF  |     | 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 226.70                 | 15.60                |
| 33 14 13 23-0055 | LF  |     | 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 321.29                 | 17.83                |
| 33 14 13 23-0056 | LF  |     | 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 429.41                 | 18.95                |
| 33 14 13 23-0057 | LF  |     | 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....                                  | 554.97                 | 20.39                |
| 33 14 13 23-0058 |     |     | <b>AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0001)                  |                        |                      |
| 33 14 13 23-0059 | LF  |     | 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 65.18                  | 7.02                 |
| 33 14 13 23-0060 | LF  |     | 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 82.24                  | 7.80                 |
| 33 14 13 23-0061 | LF  |     | 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 102.83                 | 9.36                 |
| 33 14 13 23-0062 | LF  |     | 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 127.00                 | 11.14                |
| 33 14 13 23-0063 | LF  |     | 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 177.33                 | 13.37                |
| 33 14 13 23-0064 | LF  |     | 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 262.88                 | 15.60                |
| 33 14 13 23-0065 | LF  |     | 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 374.13                 | 17.83                |
| 33 14 13 23-0066 | LF  |     | 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....                                  | 501.82                 | 18.95                |
| 33 14 13 23-0067 |     |     | <b>AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0001)                  |                        |                      |
| 33 14 13 23-0068 | LF  |     | 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 72.97                  | 7.02                 |
| 33 14 13 23-0069 | LF  |     | 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 92.36                  | 7.80                 |
| 33 14 13 23-0070 | LF  |     | 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 115.58                 | 9.36                 |
| 33 14 13 23-0071 | LF  |     | 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 142.90                 | 11.14                |
| 33 14 13 23-0072 | LF  |     | 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 200.20                 | 13.37                |
| 33 14 13 23-0073 | LF  |     | 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 298.07                 | 15.60                |
| 33 14 13 23-0074 | LF  |     | 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....                                  | 425.54                 | 17.83                |
| 33 14 13 23-0075 |     |     | <b>AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings</b> (33 14 13 23)               |                        |                      |
|                  |     |     | Note: Includes rubber gaskets.  |                        |                      |
| 33 14 13 23-0076 |     |     | <b>90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0075) |                        |                      |
| 33 14 13 23-0077 | EA  |     | 4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                   | 207.03                 | 14.64                |
|                  |     |     | For DR 25, Deduct .....   | -10.67                 |                      |
| 33 14 13 23-0078 | EA  |     | 6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                   | 420.94                 | 16.47                |
|                  |     |     | For DR 25, Deduct .....   | -23.28                 |                      |
| 33 14 13 23-0079 | EA  |     | 8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                   | 630.90                 | 18.30                |
|                  |     |     | For DR 25, Deduct .....   | -35.66                 |                      |
| 33 14 13 23-0080 | EA  |     | 10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 965.90                 | 30.16                |
|                  |     |     | For DR 25, Deduct .....   | -54.33                 |                      |
| 33 14 13 23-0081 | EA  |     | 12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 1,260.09               | 50.27                |
|                  |     |     | For DR 25, Deduct .....   | -69.57                 |                      |
| 33 14 13 23-0082 | EA  |     | 14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 1,888.82               | 62.84                |
|                  |     |     | For DR 25, Deduct .....   | -105.79                |                      |
| 33 14 13 23-0083 | EA  |     | 16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 2,254.19               | 75.42                |
|                  |     |     | For DR 25, Deduct .....   | -126.20                |                      |
| 33 14 13 23-0084 | EA  |     | 18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 3,860.04               | 100.55               |
|                  |     |     | For DR 25, Deduct .....   | -219.54                |                      |
| 33 14 13 23-0085 | EA  |     | 20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 4,752.38               | 125.69               |
|                  |     |     | For DR 25, Deduct .....   | -270.06                |                      |
| 33 14 13 23-0086 | EA  |     | 24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 7,877.99               | 169.68               |
|                  |     |     | For DR 25, Deduct .....   | -452.32                |                      |
| 33 14 13 23-0087 |     |     | <b>45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0075) |                        |                      |
| 33 14 13 23-0088 | EA  |     | 4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                   | 183.82                 | 14.64                |
|                  |     |     | For DR 25, Deduct .....   | -9.27                  |                      |
| 33 14 13 23-0089 | EA  |     | 6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                   | 315.68                 | 16.47                |
|                  |     |     | For DR 25, Deduct .....   | -16.97                 |                      |
| 33 14 13 23-0090 | EA  |     | 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                   | 399.48                 | 18.30                |
|                  |     |     | For DR 25, Deduct .....   | -21.77                 |                      |
| 33 14 13 23-0091 | EA  |     | 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 567.93                 | 30.16                |
|                  |     |     | For DR 25, Deduct .....   | -30.46                 |                      |
| 33 14 13 23-0092 | EA  |     | 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 762.10                 | 50.27                |
|                  |     |     | For DR 25, Deduct .....   | -39.69                 |                      |
| 33 14 13 23-0093 | EA  |     | 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 1,455.63               | 62.84                |
|                  |     |     | For DR 25, Deduct .....   | -79.80                 |                      |
| 33 14 13 23-0094 | EA  |     | 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 1,843.80               | 75.42                |
|                  |     |     | For DR 25, Deduct .....   | -101.58                |                      |
| 33 14 13 23-0095 | EA  |     | 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 3,173.90               | 100.55               |
|                  |     |     | For DR 25, Deduct .....   | -178.37                |                      |
| 33 14 13 23-0096 | EA  |     | 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....                  | 3,942.36               | 125.69               |
|                  |     |     | For DR 25, Deduct .....   | -221.46                |                      |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 23-0097 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>             | 5,561.30<br>-313.32       | 169.68                  |
| <b>33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>  |                           |                         |
| 33 14 13 23-0099 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>          | 181.00<br>-9.10           | 14.64                   |
| 33 14 13 23-0100 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>          | 315.68<br>-16.97          | 16.47                   |
| 33 14 13 23-0101 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>          | 399.48<br>-21.77          | 18.30                   |
| 33 14 13 23-0102 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 567.94<br>-30.46          | 30.16                   |
| 33 14 13 23-0103 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 762.10<br>-39.69          | 50.27                   |
| 33 14 13 23-0104 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 1,450.59<br>-79.80        | 60.33                   |
| 33 14 13 23-0105 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 1,843.78<br>-101.58       | 75.42                   |
| 33 14 13 23-0106 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 3,173.90<br>-178.37       | 100.55                  |
| 33 14 13 23-0107 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 3,942.36<br>-221.46       | 125.69                  |
| 33 14 13 23-0108 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 5,561.30<br>-313.32       | 169.68                  |
| <b>33 14 13 23-0109 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>  |                           |                         |
| 33 14 13 23-0110 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>          | 160.22<br>-7.86           | 14.64                   |
| 33 14 13 23-0111 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>          | 315.68<br>-16.97          | 16.47                   |
| 33 14 13 23-0112 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>          | 399.48<br>-21.77          | 18.30                   |
| 33 14 13 23-0113 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 567.94<br>-30.46          | 30.16                   |
| 33 14 13 23-0114 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 762.10<br>-39.69          | 50.27                   |
| 33 14 13 23-0115 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 1,450.59<br>-79.80        | 60.33                   |
| 33 14 13 23-0116 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 1,843.78<br>-101.58       | 75.42                   |
| 33 14 13 23-0117 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 3,173.90<br>-178.37       | 100.55                  |
| 33 14 13 23-0118 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 3,942.36<br>-221.46       | 125.69                  |
| 33 14 13 23-0119 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>         | 5,561.30<br>-313.32       | 169.68                  |
| <b>33 14 13 23-0120 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>          |                           |                         |
| 33 14 13 23-0121 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                 | 245.84<br>-12.77          | 16.47                   |
| 33 14 13 23-0122 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                 | 471.87<br>-26.12          | 18.30                   |
| 33 14 13 23-0123 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                 | 657.41<br>-36.96          | 20.74                   |
| 33 14 13 23-0124 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                | 1,356.85<br>-76.88        | 37.70                   |
| 33 14 13 23-0125 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                | 1,664.41<br>-90.82        | 75.42                   |
| 33 14 13 23-0126 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                | 2,994.09<br>-168.34       | 94.27                   |
| 33 14 13 23-0127 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                | 3,707.48<br>-208.87       | 113.12                  |
| 33 14 13 23-0128 EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                         | 4,680.23<br>-262.71       | 150.83                  |
| 33 14 13 23-0129 EA 20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                         | 5,622.48<br>-314.72       | 188.53                  |
| 33 14 13 23-0130 EA 24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>                         | 7,676.90<br>-445.23       | 128.21                  |
| <b>33 14 13 23-0131 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small> |                           |                         |
| 33 14 13 23-0132 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>   | 471.06<br>-25.41          | 23.79                   |
| 33 14 13 23-0133 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)<br><i>For DR 25, Deduct</i>   | 639.27<br>-35.28          | 25.62                   |

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| <b>33</b>    | <b>Utilities</b>                                   |
| <b>33 10</b> | <b>Water Utilities</b>                             |
| <b>33 14</b> | <b>Water Utility Transmission and Distribution</b> |



| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 33 14 13 23-0134 | EA  | 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....   | 655.34                    | 26.53                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -36.14                    |                         |
| 33 14 13 23-0135 | EA  | 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 853.58                    | 37.70                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -46.69                    |                         |
| 33 14 13 23-0136 | EA  | 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 1,152.51                  | 38.65                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -64.51                    |                         |
| 33 14 13 23-0137 | EA  | 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 1,232.42                  | 39.59                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -69.19                    |                         |
| 33 14 13 23-0138 | EA  | 12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 1,311.07                  | 57.82                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -71.73                    |                         |
| 33 14 13 23-0139 | EA  | 12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 1,502.84                  | 58.76                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -83.12                    |                         |
| 33 14 13 23-0140 | EA  | 12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 1,593.60                  | 59.70                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -88.45                    |                         |
| 33 14 13 23-0141 | EA  | 12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 1,624.91                  | 65.36                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -89.65                    |                         |
| 33 14 13 23-0142 | EA  | 14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 2,458.84                  | 67.88                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -139.39                   |                         |
| 33 14 13 23-0143 | EA  | 14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 2,557.23                  | 68.81                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -145.18                   |                         |
| 33 14 13 23-0144 | EA  | 14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 2,655.88                  | 69.76                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -150.98                   |                         |
| 33 14 13 23-0145 | EA  | 14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 2,763.38                  | 75.42                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -156.75                   |                         |
| 33 14 13 23-0146 | EA  | 14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 2,880.05                  | 85.47                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -162.55                   |                         |
| 33 14 13 23-0147 | EA  | 16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 3,068.05                  | 82.95                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -174.13                   |                         |
| 33 14 13 23-0148 | EA  | 16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 3,164.53                  | 82.95                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -179.92                   |                         |
| 33 14 13 23-0149 | EA  | 16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 3,262.94                  | 83.90                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -185.71                   |                         |
| 33 14 13 23-0150 | EA  | 16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 3,361.35                  | 84.84                   |
|                  |     | <i>For DR 25, Deduct</i> .....   | -191.50                   |                         |
| 33 14 13 23-0151 | EA  | 16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 3,489.25                  | 100.55                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -197.29                   |                         |
| 33 14 13 23-0152 | EA  | 16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 3,595.81                  | 105.58                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -203.08                   |                         |
| 33 14 13 23-0153 | EA  | 18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 3,793.18                  | 108.10                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -214.62                   |                         |
| 33 14 13 23-0154 | EA  | 18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 3,892.26                  | 109.03                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -220.45                   |                         |
| 33 14 13 23-0155 | EA  | 18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 3,990.66                  | 109.98                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -226.24                   |                         |
| 33 14 13 23-0156 | EA  | 18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 4,098.48                  | 115.63                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -232.03                   |                         |
| 33 14 13 23-0157 | EA  | 18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 4,215.05                  | 125.69                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -237.82                   |                         |
| 33 14 13 23-0158 | EA  | 18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 4,320.95                  | 130.72                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -243.57                   |                         |
| 33 14 13 23-0159 | EA  | 18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 4,455.88                  | 138.26                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -250.76                   |                         |
| 33 14 13 23-0160 | EA  | 20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 4,809.84                  | 133.23                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -272.60                   |                         |
| 33 14 13 23-0161 | EA  | 20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 4,976.52                  | 134.17                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -282.49                   |                         |
| 33 14 13 23-0162 | EA  | 20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 5,042.29                  | 135.12                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -286.32                   |                         |
| 33 14 13 23-0163 | EA  | 20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 5,117.57                  | 140.78                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -290.16                   |                         |
| 33 14 13 23-0164 | EA  | 20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 5,201.59                  | 150.83                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -294.00                   |                         |
| 33 14 13 23-0165 | EA  | 20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 5,315.26                  | 155.85                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -300.21                   |                         |
| 33 14 13 23-0166 | EA  | 20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 5,433.97                  | 163.39                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -306.43                   |                         |
| 33 14 13 23-0167 | EA  | 20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 5,528.22                  | 175.96                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -310.58                   |                         |
| 33 14 13 23-0168 | EA  | 24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 5,668.95                  | 177.22                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -318.87                   |                         |
| 33 14 13 23-0169 | EA  | 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 5,739.99                  | 178.17                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -323.02                   |                         |
| 33 14 13 23-0170 | EA  | 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....  | 5,811.00                  | 179.11                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -327.17                   |                         |
| 33 14 13 23-0171 | EA  | 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 6,103.40                  | 184.76                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -344.03                   |                         |
| 33 14 13 23-0172 | EA  | 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 6,404.60                  | 194.82                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -360.90                   |                         |
| 33 14 13 23-0173 | EA  | 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 6,695.75                  | 199.85                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -377.76                   |                         |
| 33 14 13 23-0174 | EA  | 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 6,991.95                  | 207.38                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -394.63                   |                         |
| 33 14 13 23-0175 | EA  | 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) ..... | 7,298.19                  | 219.96                  |
|                  |     | <i>For DR 25, Deduct</i> .....   | -411.50                   |                         |



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|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 23-0176 EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i> | 7,604.42<br>-428.36       | 232.53                  |
| <b>33 14 13 23-0177 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small></b>                       |                           |                         |
| 33 14 13 23-0178 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                        | 342.45<br>-17.03          | 29.28                   |
| 33 14 13 23-0179 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                        | 610.72<br>-32.69          | 32.93                   |
| 33 14 13 23-0180 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                        | 843.50<br>-46.22          | 36.59                   |
| 33 14 13 23-0181 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 1,721.76<br>-96.07        | 60.33                   |
| 33 14 13 23-0182 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 2,043.20<br>-113.54       | 75.42                   |
| 33 14 13 23-0183 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 3,708.25<br>-210.43       | 100.55                  |
| 33 14 13 23-0184 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 4,602.17<br>-261.06       | 125.69                  |
| 33 14 13 23-0185 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 5,876.26<br>-328.44       | 201.10                  |
| 33 14 13 23-0186 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 7,059.63<br>-393.41       | 251.38                  |
| 33 14 13 23-0187 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>                       | 9,953.79<br>-556.50       | 339.36                  |
| <b>33 14 13 23-0188 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small></b>              |                           |                         |
| 33 14 13 23-0189 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>          | 592.01<br>-31.79          | 31.10                   |
| 33 14 13 23-0190 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>          | 801.84<br>-44.16          | 32.93                   |
| 33 14 13 23-0191 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>          | 822.55<br>-45.18          | 34.76                   |
| 33 14 13 23-0192 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 1,234.99<br>-68.67        | 45.25                   |
| 33 14 13 23-0193 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 1,438.46<br>-80.65        | 47.13                   |
| 33 14 13 23-0194 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 1,579.42<br>-88.88        | 49.02                   |
| 33 14 13 23-0195 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 1,625.52<br>-89.69        | 65.36                   |
| 33 14 13 23-0196 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 1,866.07<br>-103.89       | 67.24                   |
| 33 14 13 23-0197 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 1,980.95<br>-110.56       | 69.12                   |
| 33 14 13 23-0198 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 2,028.48<br>-112.06       | 80.44                   |
| 33 14 13 23-0199 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 3,054.69<br>-174.23       | 75.42                   |
| 33 14 13 23-0200 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 3,178.73<br>-181.45       | 77.30                   |
| 33 14 13 23-0201 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 3,304.11<br>-188.74       | 79.18                   |
| 33 14 13 23-0202 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 3,447.82<br>-196.01       | 90.49                   |
| 33 14 13 23-0203 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 3,608.22<br>-203.22       | 110.61                  |
| 33 14 13 23-0204 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 3,808.09<br>-217.63       | 90.49                   |
| 33 14 13 23-0205 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 3,933.76<br>-224.94       | 92.38                   |
| 33 14 13 23-0206 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 4,058.09<br>-232.17       | 94.27                   |
| 33 14 13 23-0207 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 4,201.71<br>-239.43       | 105.58                  |
| 33 14 13 23-0208 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 4,276.20<br>-241.49       | 125.69                  |
| 33 14 13 23-0209 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 4,502.67<br>-253.87       | 135.74                  |
| 33 14 13 23-0210 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 4,703.13<br>-268.31       | 115.63                  |
| 33 14 13 23-0211 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 4,828.50<br>-275.61       | 117.52                  |
| 33 14 13 23-0212 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>         | 4,953.03<br>-282.85       | 119.41                  |
| 33 14 13 23-0213 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 5,094.83<br>-290.00       | 130.72                  |
| 33 14 13 23-0214 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 5,256.66<br>-297.30       | 150.83                  |
| 33 14 13 23-0215 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....<br><i>For DR 25, Deduct</i>        | 5,396.97<br>-304.51       | 160.89                  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 23-0216 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 5,576.70                  | 175.96                  |
| For DR 25, Deduct   | -313.49                   |                         |
| 33 14 13 23-0217 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 5,961.34                  | 140.78                  |
| For DR 25, Deduct   | -340.79                   |                         |
| 33 14 13 23-0218 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 6,170.76                  | 142.66                  |
| For DR 25, Deduct   | -353.13                   |                         |
| 33 14 13 23-0219 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 6,254.99                  | 144.54                  |
| For DR 25, Deduct   | -357.95                   |                         |
| 33 14 13 23-0220 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 6,357.20                  | 155.85                  |
| For DR 25, Deduct   | -362.73                   |                         |
| 33 14 13 23-0221 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 6,477.03                  | 175.96                  |
| For DR 25, Deduct   | -367.51                   |                         |
| 33 14 13 23-0222 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 6,625.76                  | 186.02                  |
| For DR 25, Deduct   | -375.22                   |                         |
| 33 14 13 23-0223 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 6,787.13                  | 201.10                  |
| For DR 25, Deduct   | -383.10                   |                         |
| 33 14 13 23-0224 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 6,923.55                  | 226.25                  |
| For DR 25, Deduct   | -388.26                   |                         |
| 33 14 13 23-0225 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 6,974.31                  | 184.76                  |
| For DR 25, Deduct   | -396.29                   |                         |
| 33 14 13 23-0226 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 7,103.28                  | 186.65                  |
| For DR 25, Deduct   | -403.80                   |                         |
| 33 14 13 23-0227 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 7,193.82                  | 188.53                  |
| For DR 25, Deduct   | -409.01                   |                         |
| 33 14 13 23-0228 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 7,567.41                  | 199.85                  |
| For DR 25, Deduct   | -430.06                   |                         |
| 33 14 13 23-0229 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 7,958.72                  | 219.96                  |
| For DR 25, Deduct   | -451.13                   |                         |
| 33 14 13 23-0230 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 8,329.86                  | 230.01                  |
| For DR 25, Deduct   | -472.19                   |                         |
| 33 14 13 23-0231 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 8,712.56                  | 245.10                  |
| For DR 25, Deduct   | -493.34                   |                         |
| 33 14 13 23-0232 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 9,113.11                  | 270.23                  |
| For DR 25, Deduct   | -514.36                   |                         |
| 33 14 13 23-0233 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 9,515.16                  | 295.37                  |
| For DR 25, Deduct   | -535.47                   |                         |
| <b>33 14 13 23-0234 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>                          |                           |                         |
| 33 14 13 23-0235 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 125.01                    | 14.64                   |
| For DR 25, Deduct   | -5.74                     |                         |
| 33 14 13 23-0236 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 230.53                    | 16.47                   |
| For DR 25, Deduct   | -11.86                    |                         |
| 33 14 13 23-0237 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....   | 277.14                    | 18.30                   |
| For DR 25, Deduct   | -14.43                    |                         |
| 33 14 13 23-0238 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 396.81                    | 30.16                   |
| For DR 25, Deduct   | -20.19                    |                         |
| 33 14 13 23-0239 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 628.29                    | 37.70                   |
| For DR 25, Deduct   | -33.17                    |                         |
| 33 14 13 23-0240 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 1,085.74                  | 50.27                   |
| For DR 25, Deduct   | -59.11                    |                         |
| 33 14 13 23-0241 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 1,287.11                  | 62.84                   |
| For DR 25, Deduct   | -69.68                    |                         |
| 33 14 13 23-0242 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 3,067.13                  | 100.55                  |
| For DR 25, Deduct   | -171.96                   |                         |
| 33 14 13 23-0243 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 3,442.16                  | 125.69                  |
| For DR 25, Deduct   | -191.45                   |                         |
| 33 14 13 23-0244 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....  | 4,844.55                  | 169.68                  |
| For DR 25, Deduct   | -270.31                   |                         |
| <b>33 14 13 23-0245 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small> |                           |                         |
| 33 14 13 23-0246 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                               | 154.16                    | 14.64                   |
| For DR 25, Deduct   | -7.49                     |                         |
| 33 14 13 23-0247 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                               | 208.65                    | 16.47                   |
| For DR 25, Deduct   | -10.54                    |                         |
| 33 14 13 23-0248 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                               | 302.04                    | 18.30                   |
| For DR 25, Deduct   | -15.93                    |                         |
| 33 14 13 23-0249 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 416.23                    | 30.16                   |
| For DR 25, Deduct   | -21.35                    |                         |
| 33 14 13 23-0250 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 667.58                    | 50.27                   |
| For DR 25, Deduct   | -34.02                    |                         |
| 33 14 13 23-0251 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 1,751.21                  | 60.33                   |
| For DR 25, Deduct   | -97.83                    |                         |
| 33 14 13 23-0252 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 2,368.76                  | 75.42                   |
| For DR 25, Deduct   | -133.08                   |                         |
| 33 14 13 23-0253 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 2,920.81                  | 100.55                  |
| For DR 25, Deduct   | -163.18                   |                         |
| 33 14 13 23-0254 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 3,491.16                  | 125.69                  |
| For DR 25, Deduct   | -194.39                   |                         |
| 33 14 13 23-0255 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....                              | 4,742.32                  | 169.68                  |
| For DR 25, Deduct   | -264.18                   |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
| <b>33 14 13 23-0256</b> |       |     |     | <b>Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping</b> <small>(33 14 13 23)</small>        |                        |                      |
| <b>33 14 13 23-0257</b> |       |     |     | <b>Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(33 14 13 23-0256)</small>     |                        |                      |
|                         |       |     | LF  | 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>   | 3.06<br>-0.15          | 0.98                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 0.09                   |                      |
|                         |       |     | LF  | 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>     | 3.45<br>-0.17          | 1.05                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 0.12                   |                      |
|                         |       |     | LF  | 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i> | 4.18<br>-0.21          | 1.14                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 0.20                   |                      |
|                         |       |     | LF  | 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i> | 4.96<br>-0.25          | 1.26                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 0.27                   |                      |
|                         |       |     | LF  | 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>     | 6.86<br>-0.34          | 1.42                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 0.50                   |                      |
|                         |       |     | LF  | 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i> | 9.27<br>-0.46          | 1.61                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 0.79                   |                      |
|                         |       |     | LF  | 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>     | 11.45<br>-0.57         | 1.71                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 1.07                   |                      |
|                         |       |     | LF  | 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>     | 16.99<br>-0.85         | 2.11                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 1.76                   |                      |
|                         |       |     | LF  | 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>     | 32.24<br>-1.61         | 2.68                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 3.83                   |                      |
|                         |       |     | LF  | 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>     | 53.32<br>-2.67         | 4.02                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 6.49                   |                      |
|                         |       |     | LF  | 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>    | 80.72<br>-4.04         | 5.38                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 10.09                  |                      |
|                         |       |     | LF  | 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe .....<br><i>For &gt;1,000, Deduct</i>    | 112.89<br>-5.64        | 7.24                 |
|                         |       |     |     | <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>          | 14.22                  |                      |
| <b>33 14 13 23-0270</b> |       |     |     | <b>90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0256)</small> |                        |                      |
|                         |       |     | EA  | 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                | 30.00                  | 11.71                |
|                         |       |     | EA  | 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                  | 38.14                  | 14.64                |
|                         |       |     | EA  | 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                              | 48.37                  | 18.30                |
|                         |       |     | EA  | 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                              | 87.76                  | 20.25                |
|                         |       |     | EA  | 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                  | 93.61                  | 22.69                |
|                         |       |     | EA  | 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                              | 112.93                 | 25.74                |
|                         |       |     | EA  | 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                  | 123.25                 | 27.48                |
|                         |       |     | EA  | 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                  | 180.96                 | 33.75                |
|                         |       |     | EA  | 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                  | 273.70                 | 42.87                |
|                         |       |     | EA  | 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                  | 473.53                 | 56.28                |
|                         |       |     | EA  | 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                 | 568.39                 | 75.30                |
|                         |       |     | EA  | 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                 | 747.22                 | 101.36               |
| <b>33 14 13 23-0283</b> |       |     |     | <b>45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0256)</small> |                        |                      |
|                         |       |     | EA  | 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                | 30.99                  | 11.71                |
|                         |       |     | EA  | 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                  | 38.85                  | 14.64                |
|                         |       |     | EA  | 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                              | 48.80                  | 18.30                |
|                         |       |     | EA  | 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                              | 74.69                  | 20.25                |
|                         |       |     | EA  | 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                  | 94.83                  | 22.69                |
|                         |       |     | EA  | 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                              | 117.86                 | 25.74                |
|                         |       |     | EA  | 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                  | 121.17                 | 27.48                |
|                         |       |     | EA  | 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                  | 176.46                 | 33.75                |
|                         |       |     | EA  | 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                  | 264.63                 | 42.87                |
|                         |       |     | EA  | 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                  | 456.24                 | 56.28                |
|                         |       |     | EA  | 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                 | 496.73                 | 75.30                |
|                         |       |     | EA  | 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) .....                                 | 648.05                 | 101.36               |
| <b>33 14 13 23-0296</b> |       |     |     | <b>Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0256)</small>     |                        |                      |
|                         |       |     | EA  | 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                    | 44.91                  | 17.56                |
|                         |       |     | EA  | 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                      | 56.93                  | 22.08                |
|                         |       |     | EA  | 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                  | 71.66                  | 27.57                |
|                         |       |     | EA  | 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                  | 115.56                 | 30.50                |
|                         |       |     | EA  | 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                      | 133.00                 | 33.91                |
|                         |       |     | EA  | 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                  | 156.63                 | 38.67                |
|                         |       |     | EA  | 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                      | 190.42                 | 41.11                |
|                         |       |     | EA  | 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) .....                                      | 258.11                 | 50.67                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 23-0305 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)                   | 473.18                    | 64.42                   |
| 33 14 13 23-0306 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)                   | 736.95                    | 84.43                   |
| 33 14 13 23-0307 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)                  | 853.16                    | 129.08                  |
| 33 14 13 23-0308 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)                  | 1,043.22                  | 173.71                  |
| <b>33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0256) |                           |                         |
| 33 14 13 23-0310 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                     | 20.16                     | 7.81                    |
| 33 14 13 23-0311 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                       | 27.30                     | 10.50                   |
| 33 14 13 23-0312 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                   | 36.97                     | 13.78                   |
| 33 14 13 23-0313 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                   | 59.85                     | 15.25                   |
| 33 14 13 23-0314 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                       | 65.60                     | 16.96                   |
| 33 14 13 23-0315 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                   | 74.60                     | 19.27                   |
| 33 14 13 23-0316 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                       | 84.32                     | 20.55                   |
| 33 14 13 23-0317 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                       | 122.48                    | 25.28                   |
| 33 14 13 23-0318 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                       | 184.42                    | 32.21                   |
| 33 14 13 23-0319 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                       | 342.39                    | 42.21                   |
| 33 14 13 23-0320 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                      | 398.46                    | 64.60                   |
| 33 14 13 23-0321 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)                      | 498.92                    | 86.85                   |
| <b>33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings</b> (33 14 13 23)     |                           |                         |
| <b>33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0322)             |                           |                         |
| 33 14 13 23-0324 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe                               | 3.57                      | 0.98                    |
| For >1,000, Deduct   | -0.18                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 0.17                      |                         |
| 33 14 13 23-0325 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe                                 | 4.41                      | 1.05                    |
| For >1,000, Deduct   | -0.22                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 0.27                      |                         |
| 33 14 13 23-0326 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe                             | 5.85                      | 1.26                    |
| For >1,000, Deduct   | -0.29                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 0.40                      |                         |
| 33 14 13 23-0327 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe                                 | 7.19                      | 1.42                    |
| For >1,000, Deduct   | -0.36                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 0.55                      |                         |
| 33 14 13 23-0328 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe                             | 9.80                      | 1.61                    |
| For >1,000, Deduct   | -0.49                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 0.87                      |                         |
| 33 14 13 23-0329 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe                                 | 11.79                     | 1.71                    |
| For >1,000, Deduct   | -0.59                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 1.13                      |                         |
| 33 14 13 23-0330 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe                                 | 16.07                     | 2.11                    |
| For >1,000, Deduct   | -0.80                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 1.62                      |                         |
| 33 14 13 23-0331 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe                                 | 25.57                     | 2.68                    |
| For >1,000, Deduct   | -1.28                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add            | 2.83                      |                         |
| <b>33 14 13 23-0332 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> (33 14 13 23-0322) |                           |                         |
| 33 14 13 23-0333 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                   | 30.35                     | 11.71                   |
| 33 14 13 23-0334 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 38.35                     | 14.64                   |
| 33 14 13 23-0335 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                 | 53.61                     | 20.25                   |
| 33 14 13 23-0336 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 61.17                     | 22.69                   |
| 33 14 13 23-0337 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                 | 76.48                     | 25.74                   |
| 33 14 13 23-0338 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 83.38                     | 27.48                   |
| 33 14 13 23-0339 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 114.22                    | 33.75                   |
| 33 14 13 23-0340 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 202.24                    | 42.87                   |
| <b>33 14 13 23-0341 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> (33 14 13 23-0322) |                           |                         |
| 33 14 13 23-0342 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                   | 30.27                     | 11.71                   |
| 33 14 13 23-0343 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 38.27                     | 14.64                   |
| 33 14 13 23-0344 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                 | 53.65                     | 20.25                   |
| 33 14 13 23-0345 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 60.83                     | 22.69                   |
| 33 14 13 23-0346 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                 | 75.55                     | 25.74                   |
| 33 14 13 23-0347 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 82.29                     | 27.48                   |
| 33 14 13 23-0348 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 112.02                    | 33.75                   |
| 33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)                     | 195.22                    | 42.87                   |
| <b>33 14 13 23-0350 Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes</b> (33 14 13 23-0322)     |                           |                         |
| 33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                      | 45.29                     | 17.56                   |
| 33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                        | 57.21                     | 22.08                   |
| 33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                    | 79.98                     | 30.50                   |
| 33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                        | 90.55                     | 33.91                   |
| 33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                    | 115.26                    | 38.67                   |
| 33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                        | 129.54                    | 41.11                   |
| 33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                        | 162.36                    | 50.67                   |
| 33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)                        | 310.11                    | 64.42                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 14 13 23-0359</b> <b>Schedule 40 Polyvinyl Chloride (PVC) Couplings</b> <small>(33 14 13 23-0322)</small>        |                           |                         |
| 33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 20.33                     | 7.81                    |
| 33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 27.45                     | 10.50                   |
| 33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 39.77                     | 15.25                   |
| 33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 45.24                     | 16.96                   |
| 33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 54.38                     | 19.27                   |
| 33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 60.88                     | 20.55                   |
| 33 14 13 23-0366 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 75.82                     | 25.28                   |
| 33 14 13 23-0367 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....  | 123.75                    | 32.21                   |
| <b>33 14 13 23-0368</b> <b>Crosses, Schedule 40 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0322)</small>         |                           |                         |
| 33 14 13 23-0369 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 60.73                     | 23.42                   |
| 33 14 13 23-0370 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 76.19                     | 29.40                   |
| 33 14 13 23-0371 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 106.62                    | 40.63                   |
| 33 14 13 23-0372 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 120.70                    | 45.26                   |
| 33 14 13 23-0373 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 153.57                    | 51.48                   |
| 33 14 13 23-0374 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 172.56                    | 54.86                   |
| 33 14 13 23-0375 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 216.27                    | 67.49                   |
| 33 14 13 23-0376 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....   | 412.61                    | 85.86                   |
| <b>33 14 13 23-0377</b> <b>Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings</b> <small>(33 14 13 23)</small>     |                           |                         |
| <b>33 14 13 23-0378</b> <b>Schedule 80 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0377)</small>             |                           |                         |
| 33 14 13 23-0379 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 4.96                      | 1.05                    |
| For >1,000, Deduct   | -0.25                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 0.35                      |                         |
| 33 14 13 23-0380 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 6.95                      | 1.26                    |
| For >1,000, Deduct   | -0.35                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 0.57                      |                         |
| 33 14 13 23-0381 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 9.05                      | 1.42                    |
| For >1,000, Deduct   | -0.45                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 0.83                      |                         |
| 33 14 13 23-0382 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 12.21                     | 1.61                    |
| For >1,000, Deduct   | -0.61                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 1.23                      |                         |
| 33 14 13 23-0383 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 15.16                     | 1.71                    |
| For >1,000, Deduct   | -0.76                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 1.63                      |                         |
| 33 14 13 23-0384 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 21.24                     | 2.11                    |
| For >1,000, Deduct   | -1.06                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 2.40                      |                         |
| 33 14 13 23-0385 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....   | 37.06                     | 2.68                    |
| For >1,000, Deduct   | -1.85                     |                         |
| For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add                                  | 4.55                      |                         |
| <b>33 14 13 23-0386</b> <b>Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> <small>(33 14 13 23-0377)</small> |                           |                         |
| 33 14 13 23-0387 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....                                     | 41.21                     | 14.64                   |
| 33 14 13 23-0388 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....                                 | 53.61                     | 20.25                   |
| 33 14 13 23-0389 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....                                     | 64.03                     | 22.69                   |
| 33 14 13 23-0390 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....                                 | 82.56                     | 25.74                   |
| 33 14 13 23-0391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                      | 89.02                     | 27.48                   |
| 33 14 13 23-0392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                      | 115.58                    | 33.75                   |
| 33 14 13 23-0393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow .....                                      | 195.81                    | 42.87                   |
| <b>33 14 13 23-0394</b> <b>Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> <small>(33 14 13 23-0377)</small> |                           |                         |
| 33 14 13 23-0395 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                      | 52.93                     | 14.64                   |
| 33 14 13 23-0396 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                  | 64.90                     | 20.25                   |
| 33 14 13 23-0397 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                      | 74.89                     | 22.69                   |
| 33 14 13 23-0398 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                  | 102.92                    | 25.74                   |
| 33 14 13 23-0399 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                      | 115.53                    | 27.48                   |
| 33 14 13 23-0400 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                      | 168.88                    | 33.75                   |
| 33 14 13 23-0401 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....                                      | 192.24                    | 42.87                   |
| <b>33 14 13 23-0402</b> <b>Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes</b> <small>(33 14 13 23-0377)</small>     |                           |                         |
| 33 14 13 23-0403 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....   | 63.21                     | 22.08                   |
| 33 14 13 23-0404 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....                                     | 98.20                     | 30.50                   |
| 33 14 13 23-0405 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....   | 112.27                    | 33.91                   |
| 33 14 13 23-0406 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....                                     | 126.76                    | 38.67                   |
| 33 14 13 23-0407 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....   | 140.54                    | 41.11                   |
| 33 14 13 23-0408 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....   | 170.29                    | 50.67                   |
| 33 14 13 23-0409 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....   | 309.83                    | 64.42                   |
| <b>33 14 13 23-0410</b> <b>Schedule 80 Polyvinyl Chloride (PVC) Couplings</b> <small>(33 14 13 23-0377)</small>        |                           |                         |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 23-0411 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                       | 31.73                     | 10.50                   |
| 33 14 13 23-0412 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                   | 47.13                     | 15.25                   |
| 33 14 13 23-0413 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                       | 52.17                     | 16.96                   |
| 33 14 13 23-0414 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                   | 72.17                     | 19.27                   |
| 33 14 13 23-0415 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                       | 78.81                     | 20.55                   |
| 33 14 13 23-0416 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                       | 97.61                     | 25.28                   |
| 33 14 13 23-0417 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....                                       | 154.19                    | 32.21                   |
| <b>33 14 13 23-0418 Crosses, Schedule 80 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0377)</small>          |                           |                         |
| 33 14 13 23-0419 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross .....  | 84.16                     | 29.40                   |
| 33 14 13 23-0420 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....                                      | 130.80                    | 40.63                   |
| 33 14 13 23-0421 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....  | 149.53                    | 45.26                   |
| 33 14 13 23-0422 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....                                      | 168.84                    | 51.48                   |
| 33 14 13 23-0423 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross .....  | 187.17                    | 54.86                   |
| 33 14 13 23-0424 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross .....  | 226.79                    | 67.49                   |
| 33 14 13 23-0425 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross .....  | 412.23                    | 85.86                   |
| <b>33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping</b> <small>(33 14 13 23)</small> |                           |                         |
| Note: ASTM D3350 pipe, ASTM D2657 heat fusion.   |                           |                         |
| <b>33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe</b> <small>(33 14 13 23-0426)</small>         |                           |                         |
| 33 14 13 23-0428 LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....             | 9.48                      | 2.89                    |
| For SDR 19, Add  | 0.33                      |                         |
| For SDR 17, Add  | 0.81                      |                         |
| For SDR 15.5, Add  | 1.18                      |                         |
| For SDR 13.5, Add  | 1.84                      |                         |
| For SDR 11, Add  | 2.97                      |                         |
| 33 14 13 23-0429 LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....             | 8.83                      | 3.68                    |
| For SDR 26, Deduct   | -0.27                     |                         |
| For SDR 19, Add  | 0.13                      |                         |
| For SDR 17, Add  | 0.33                      |                         |
| For SDR 15.5, Add  | 0.48                      |                         |
| For SDR 13.5, Add  | 0.75                      |                         |
| For SDR 11, Add  | 1.21                      |                         |
| 33 14 13 23-0430 LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....             | 12.12                     | 4.46                    |
| For SDR 26, Deduct   | -0.59                     |                         |
| For SDR 19, Add  | 0.29                      |                         |
| For SDR 17, Add  | 0.71                      |                         |
| For SDR 15.5, Add  | 1.04                      |                         |
| For SDR 13.5, Add  | 1.63                      |                         |
| For SDR 11, Add  | 2.62                      |                         |
| 33 14 13 23-0431 LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....             | 15.46                     | 5.02                    |
| For SDR 26, Deduct   | -1.00                     |                         |
| For SDR 19, Add  | 0.49                      |                         |
| For SDR 17, Add  | 1.21                      |                         |
| For SDR 15.5, Add  | 1.77                      |                         |
| For SDR 13.5, Add  | 2.76                      |                         |
| For SDR 11, Add  | 4.44                      |                         |
| 33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....            | 19.59                     | 5.57                    |
| For SDR 26, Deduct   | -1.55                     |                         |
| For SDR 19, Add  | 0.76                      |                         |
| For SDR 17, Add  | 1.88                      |                         |
| For SDR 15.5, Add  | 2.75                      |                         |
| For SDR 13.5, Add  | 4.29                      |                         |
| For SDR 11, Add  | 6.91                      |                         |
| 33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....            | 24.55                     | 6.25                    |
| For SDR 26, Deduct   | -2.23                     |                         |
| For SDR 19, Add  | 1.10                      |                         |
| For SDR 17, Add  | 2.71                      |                         |
| For SDR 15.5, Add  | 3.96                      |                         |
| For SDR 13.5, Add  | 6.19                      |                         |
| For SDR 11, Add  | 9.96                      |                         |
| 33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....            | 28.25                     | 7.02                    |
| For SDR 26, Deduct   | -2.62                     |                         |
| For SDR 19, Add  | 1.29                      |                         |
| For SDR 17, Add  | 3.18                      |                         |
| For SDR 15.5, Add  | 4.66                      |                         |
| For SDR 13.5, Add  | 7.27                      |                         |
| For SDR 11, Add  | 11.71                     |                         |
| 33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....            | 34.31                     | 7.80                    |
| For SDR 26, Deduct   | -3.43                     |                         |
| For SDR 19, Add  | 1.68                      |                         |
| For SDR 17, Add  | 4.16                      |                         |
| For SDR 15.5, Add  | 6.09                      |                         |
| For SDR 13.5, Add  | 9.50                      |                         |
| For SDR 11, Add  | 15.30                     |                         |
| 33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....            | 42.42                     | 9.36                    |
| For SDR 26, Deduct   | -4.33                     |                         |
| For SDR 19, Add  | 2.13                      |                         |
| For SDR 17, Add  | 5.25                      |                         |
| For SDR 15.5, Add  | 7.69                      |                         |
| For SDR 13.5, Add  | 12.01                     |                         |
| For SDR 11, Add  | 19.33                     |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------|-----|---|------------------------|----------------------|
| 33 14 | 13 23-0437 | LF  | 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....           | 139.29                 | 11.14                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -21.45                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 10.53                  |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 26.00                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 38.07                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 59.42                  |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 95.65                  |                      |
| 33 14 | 13 23-0438 | LF  | 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....           | 68.81                  | 13.37                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -7.71                  |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 3.79                   |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 9.35                   |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 13.69                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 21.36                  |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 34.38                  |                      |
| 33 14 | 13 23-0439 | EA  | 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping <sup>(33 14)</sup> ..... |                        |                      |
|       |            |     | <sup>13 23-0426)</sup>  |                        |                      |
| 33 14 | 13 23-0440 | EA  | 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....             | 68.37                  | 18.30                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -2.47                  |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 1.21                   |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 3.00                   |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 4.39                   |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 6.85                   |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 11.02                  |                      |
| 33 14 | 13 23-0441 | EA  | 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....             | 77.05                  | 20.34                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -2.94                  |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 1.45                   |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 3.57                   |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 5.23                   |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 8.16                   |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 13.13                  |                      |
| 33 14 | 13 23-0442 | EA  | 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....             | 112.40                 | 23.24                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -7.83                  |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 3.85                   |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 9.49                   |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 13.90                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 21.70                  |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 34.93                  |                      |
| 33 14 | 13 23-0443 | EA  | 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....             | 170.68                 | 27.13                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -16.37                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 8.04                   |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 19.85                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 29.06                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 45.37                  |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 73.02                  |                      |
| 33 14 | 13 23-0444 | EA  | 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....            | 257.52                 | 36.23                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -27.33                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 13.42                  |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 33.13                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 48.51                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 75.72                  |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 121.87                 |                      |
| 33 14 | 13 23-0445 | EA  | 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....            | 380.91                 | 54.23                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -40.02                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 19.65                  |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 48.51                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 71.04                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 110.88                 |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 178.47                 |                      |
| 33 14 | 13 23-0446 | EA  | 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....            | 477.23                 | 72.37                |
|       |            |     | <i>For SDR 26, Deduct</i>   | -47.70                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 23.42                  |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 57.83                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 84.69                  |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 132.18                 |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 212.75                 |                      |
| 33 14 | 13 23-0447 | EA  | 16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....            | 636.86                 | 108.44               |
|       |            |     | <i>For SDR 26, Deduct</i>   | -57.13                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 28.05                  |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 69.25                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 101.41                 |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 158.29                 |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 254.78                 |                      |
| 33 14 | 13 23-0448 | EA  | 18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....            | 790.09                 | 121.99               |
|       |            |     | <i>For SDR 26, Deduct</i>   | -77.74                 |                      |
|       |            |     | <i>For SDR 19, Add</i>  | 38.17                  |                      |
|       |            |     | <i>For SDR 17, Add</i>  | 94.24                  |                      |
|       |            |     | <i>For SDR 15.5, Add</i>  | 138.01                 |                      |
|       |            |     | <i>For SDR 13.5, Add</i>  | 215.41                 |                      |
|       |            |     | <i>For SDR 11, Add</i>  | 346.71                 |                      |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR        | CSI               | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--------------|-------------------|-----|---|---------------------------|-------------------------|
| 33 14        | 13 23-0449        | EA  | 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                | 1,057.39                  | 138.46                  |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -116.90                   |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 57.40                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 141.71                    |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 207.53                    |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 323.92                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 521.38                    |                         |
| 33 14        | 13 23-0450        | EA  | 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                | 1,339.40                  | 162.73                  |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -156.07                   |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 76.63                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 189.19                    |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 277.06                    |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 432.45                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 696.05                    |                         |
| <b>33 14</b> | <b>13 23-0451</b> |     | <b>Tees, High Density Polyethylene (HDPE) Pressure Piping</b> <small>(33 14 13 23-0426)</small> |                           |                         |
| 33 14        | 13 23-0452        | EA  | 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                             | 74.96                     | 19.15                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -3.23                     |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 1.59                      |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 3.92                      |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 5.74                      |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 8.95                      |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 14.41                     |                         |
| 33 14        | 13 23-0453        | EA  | 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                             | 85.79                     | 21.69                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -3.81                     |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 1.87                      |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 4.61                      |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 6.76                      |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 10.54                     |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 16.97                     |                         |
| 33 14        | 13 23-0454        | EA  | 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                             | 129.30                    | 25.04                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -9.95                     |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 4.88                      |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 12.06                     |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 17.66                     |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 27.56                     |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 44.36                     |                         |
| 33 14        | 13 23-0455        | EA  | 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                             | 226.33                    | 29.59                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -25.23                    |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 12.39                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 30.58                     |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 44.79                     |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 69.91                     |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 112.52                    |                         |
| 33 14        | 13 23-0456        | EA  | 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                            | 311.48                    | 43.43                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -33.24                    |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 16.32                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 40.29                     |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 59.01                     |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 92.10                     |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 148.25                    |                         |
| 33 14        | 13 23-0457        | EA  | 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                            | 442.83                    | 65.14                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -45.39                    |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 22.28                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 55.02                     |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 80.57                     |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 125.76                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 202.42                    |                         |
| 33 14        | 13 23-0458        | EA  | 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                            | 535.29                    | 81.37                   |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -53.40                    |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 26.22                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 64.73                     |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 94.79                     |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 147.96                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 238.15                    |                         |
| 33 14        | 13 23-0459        | EA  | 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                            | 712.06                    | 121.99                  |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -63.41                    |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 31.13                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 76.87                     |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 112.57                    |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 175.70                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 282.80                    |                         |
| 33 14        | 13 23-0460        | EA  | 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                            | 906.94                    | 142.12                  |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -88.10                    |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 43.26                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 106.80                    |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 156.41                    |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 244.13                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 392.94                    |                         |
| 33 14        | 13 23-0461        | EA  | 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                            | 1,250.23                  | 167.86                  |
|              |                   |     | <i>For SDR 26, Deduct</i>   | -135.83                   |                         |
|              |                   |     | <i>For SDR 19, Add</i>  | 66.69                     |                         |
|              |                   |     | <i>For SDR 17, Add</i>  | 164.65                    |                         |
|              |                   |     | <i>For SDR 15.5, Add</i>  | 241.12                    |                         |
|              |                   |     | <i>For SDR 13.5, Add</i>  | 376.36                    |                         |
|              |                   |     | <i>For SDR 11, Add</i>  | 605.78                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....                  | 1,611.32                  | 203.48                  |
| <i>For SDR 26, Deduct</i>   | -183.55                   |                         |
| <i>For SDR 19, Add</i>  | 90.12                     |                         |
| <i>For SDR 17, Add</i>  | 222.50                    |                         |
| <i>For SDR 15.5, Add</i>  | 325.85                    |                         |
| <i>For SDR 13.5, Add</i>  | 508.60                    |                         |
| <i>For SDR 11, Add</i>  | 818.62                    |                         |
| <b>33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)</b>                   |                           |                         |
| See CSI section 22 11 16 00-0013 for galvanized steel pipe.   |                           |                         |
| <b>33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)</b>                              |                           |                         |
| 33 14 13 36-0001 Steel Piping (33 14 13 36)   |                           |                         |
| 33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)                              |                           |                         |
| Note: ASTM A252 steel pipe.   |                           |                         |
| 33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)    |                           |                         |
| 33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 118.59                    | 31.64                   |
| <i>For &lt;100, Add</i>   | 13.12                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -5.93                     |                         |
| 33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....          | 141.09                    | 31.64                   |
| <i>For &lt;100, Add</i>   | 14.25                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -7.05                     |                         |
| 33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 140.78                    | 34.52                   |
| <i>For &lt;100, Add</i>   | 14.88                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -7.04                     |                         |
| 33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 169.21                    | 34.52                   |
| <i>For &lt;100, Add</i>   | 16.31                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -8.46                     |                         |
| 33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 169.80                    | 36.16                   |
| <i>For &lt;100, Add</i>   | 16.71                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -8.49                     |                         |
| 33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 191.92                    | 36.16                   |
| <i>For &lt;100, Add</i>   | 17.81                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -9.60                     |                         |
| 33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 205.30                    | 39.96                   |
| <i>For &lt;100, Add</i>   | 19.35                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -10.27                    |                         |
| 33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 222.98                    | 39.96                   |
| <i>For &lt;100, Add</i>   | 20.23                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -11.15                    |                         |
| 33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 217.87                    | 42.19                   |
| <i>For &lt;100, Add</i>   | 20.48                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -10.89                    |                         |
| 33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 231.52                    | 42.19                   |
| <i>For &lt;100, Add</i>   | 21.16                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -11.58                    |                         |
| 33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 269.45                    | 47.46                   |
| <i>For &lt;100, Add</i>   | 24.26                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -13.47                    |                         |
| 33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 291.82                    | 47.46                   |
| <i>For &lt;100, Add</i>   | 25.38                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -14.59                    |                         |
| 33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002) |                           |                         |
| 33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 237.08                    | 65.59                   |
| <i>For &lt;100, Add</i>   | 22.16                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -11.85                    |                         |
| 33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 280.71                    | 72.15                   |
| <i>For &lt;100, Add</i>   | 25.43                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -14.04                    |                         |
| 33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 311.34                    | 75.43                   |
| <i>For &lt;100, Add</i>   | 27.59                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -15.57                    |                         |
| 33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 351.19                    | 85.27                   |
| <i>For &lt;100, Add</i>   | 31.09                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -17.56                    |                         |
| 33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 366.36                    | 85.27                   |
| <i>For &lt;100, Add</i>   | 31.85                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -18.32                    |                         |
| 33 14 13 36-0022 LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 380.39                    | 85.27                   |
| <i>For &lt;100, Add</i>   | 32.55                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -19.02                    |                         |
| 33 14 13 36-0023 LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....         | 396.57                    | 85.27                   |
| <i>For &lt;100, Add</i>   | 33.36                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -19.83                    |                         |
| 33 14 13 36-0024 LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....        | 459.50                    | 98.38                   |
| <i>For &lt;100, Add</i>   | 38.44                     |                         |
| <i>For &gt;1,000, Deduct</i>  | -22.98                    |                         |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 13 36-0025 LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 509.55                    | 98.38                   |
| For <100, Add  | 40.94                     |                         |
| For >1,000, Deduct   | -25.48                    |                         |
| 33 14 13 36-0026 LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 632.40                    | 98.38                   |
| For <100, Add  | 47.08                     |                         |
| For >1,000, Deduct   | -31.62                    |                         |
| 33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 570.21                    | 114.78                  |
| For <100, Add  | 46.55                     |                         |
| For >1,000, Deduct   | -28.51                    |                         |
| 33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 590.68                    | 114.78                  |
| For <100, Add  | 47.57                     |                         |
| For >1,000, Deduct   | -29.53                    |                         |
| 33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 783.81                    | 114.78                  |
| For <100, Add  | 57.23                     |                         |
| For >1,000, Deduct   | -39.19                    |                         |
| 33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 676.38                    | 114.78                  |
| For <100, Add  | 51.86                     |                         |
| For >1,000, Deduct   | -33.82                    |                         |
| 33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 793.45                    | 137.74                  |
| For <100, Add  | 61.32                     |                         |
| For >1,000, Deduct   | -39.67                    |                         |
| 33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 943.23                    | 137.74                  |
| For <100, Add  | 68.81                     |                         |
| For >1,000, Deduct   | -47.16                    |                         |
| 33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 905.82                    | 137.74                  |
| For <100, Add  | 66.94                     |                         |
| For >1,000, Deduct   | -45.29                    |                         |
| 33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 1,380.03                  | 154.14                  |
| For <100, Add  | 93.05                     |                         |
| For >1,000, Deduct   | -69.00                    |                         |
| 33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 845.89                    | 154.14                  |
| For <100, Add  | 66.35                     |                         |
| For >1,000, Deduct   | -42.29                    |                         |
| 33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 1,582.06                  | 173.82                  |
| For <100, Add  | 106.16                    |                         |
| For >1,000, Deduct   | -79.10                    |                         |
| 33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 928.62                    | 173.82                  |
| For <100, Add  | 73.49                     |                         |
| For >1,000, Deduct   | -46.43                    |                         |
| 33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe..... | 1,659.66                  | 196.77                  |
| For <100, Add  | 113.91                    |                         |
| For >1,000, Deduct   | -82.98                    |                         |
| 33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 1,830.29                  | 196.77                  |
| For <100, Add  | 122.44                    |                         |
| For >1,000, Deduct   | -91.51                    |                         |
| 33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 2,047.91                  | 229.57                  |
| For <100, Add  | 138.47                    |                         |
| For >1,000, Deduct   | -102.40                   |                         |
| 33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 1,441.23                  | 229.57                  |
| For <100, Add  | 108.14                    |                         |
| For >1,000, Deduct   | -72.06                    |                         |
| 33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 1,607.54                  | 186.97                  |
| For <100, Add  | 136.47                    |                         |
| For >1,000, Deduct   | -80.38                    |                         |
| 33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....  | 2,977.64                  | 186.97                  |
| For <100, Add  | 204.97                    |                         |
| For >1,000, Deduct   | -148.88                   |                         |
| <b>33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)</b>                   |                           |                         |
| 33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....                       | 131.65                    | 36.65                   |
| 33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....                       | 204.84                    | 70.49                   |
| 33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....                       | 272.70                    | 93.05                   |
| 33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....                       | 429.65                    | 140.98                  |
| 33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....                       | 557.52                    | 177.63                  |
| 33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 672.19                    | 176.36                  |
| 33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 801.56                    | 221.04                  |
| 33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 862.25                    | 221.04                  |
| 33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 912.22                    | 252.78                  |
| 33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 997.74                    | 270.41                  |
| 33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 1,087.94                  | 305.69                  |
| 33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 1,357.19                  | 323.32                  |
| 33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 1,615.65                  | 352.71                  |
| 33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 1,889.11                  | 396.81                  |
| 33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 2,175.17                  | 446.77                  |
| 33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 2,530.80                  | 514.38                  |
| 33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 2,812.69                  | 587.85                  |
| 33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 3,257.72                  | 734.82                  |
| 33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 3,765.71                  | 893.54                  |
| 33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....                      | 4,490.79                  | 1,058.14                |

**33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

|                         |   |  |  |        |       |
|-------------------------|---|--|--|--------|-------|
| <b>33 14 13 39-0001</b> | <b>Type L Copper Water Distribution Piping</b> <small>(33 14 13 39)</small> |  |  |        |       |
| 33 14 13 39-0002        | LF  |  | 1/2" Type L Copper Water Distribution Pipe .....   | 9.08   | 2.44  |
| 33 14 13 39-0003        | LF  |  | 3/4" Type L Copper Water Distribution Pipe .....   | 11.47  | 2.75  |
| 33 14 13 39-0004        | LF  |  | 1" Type L Copper Water Distribution Pipe .....     | 15.19  | 3.05  |
| 33 14 13 39-0005        | LF  |  | 1-1/4" Type L Copper Water Distribution Pipe ..... | 19.00  | 3.66  |
| 33 14 13 39-0006        | LF  |  | 1-1/2" Type L Copper Water Distribution Pipe ..... | 23.44  | 4.89  |
| 33 14 13 39-0007        | LF  |  | 2" Type L Copper Water Distribution Pipe .....     | 34.21  | 6.11  |
| 33 14 13 39-0008        | LF  |  | 2-1/2" Type L Copper Water Distribution Pipe ..... | 43.20  | 7.33  |
| 33 14 13 39-0009        | LF  |  | 3" Type L Copper Water Distribution Pipe .....     | 54.25  | 8.06  |
| 33 14 13 39-0010        | LF  |  | 3-1/2" Type L Copper Water Distribution Pipe ..... | 72.89  | 10.14 |
| 33 14 13 39-0011        | LF  |  | 4" Type L Copper Water Distribution Pipe .....     | 96.29  | 12.82 |
| 33 14 13 39-0012        | LF  |  | 5" Type L Copper Water Distribution Pipe .....     | 155.35 | 16.00 |
| 33 14 13 39-0013        | LF  |  | 6" Type L Copper Water Distribution Pipe .....     | 200.76 | 19.30 |
| 33 14 13 39-0014        | LF  |  | 8" Type L Copper Water Distribution Pipe .....     | 346.49 | 21.61 |

|                         |   |  |  |        |       |
|-------------------------|---|--|--|--------|-------|
| <b>33 14 13 39-0015</b> | <b>Type K Copper Water Distribution Piping</b> <small>(33 14 13 39)</small> |  |  |        |       |
| 33 14 13 39-0016        | LF  |  | 1/2" Type K Copper Water Distribution Pipe .....   | 9.68   | 2.44  |
| 33 14 13 39-0017        | LF  |  | 3/4" Type K Copper Water Distribution Pipe .....   | 13.58  | 2.75  |
| 33 14 13 39-0018        | LF  |  | 1" Type K Copper Water Distribution Pipe .....     | 17.28  | 3.05  |
| 33 14 13 39-0019        | LF  |  | 1-1/4" Type K Copper Water Distribution Pipe ..... | 20.30  | 3.66  |
| 33 14 13 39-0020        | LF  |  | 1-1/2" Type K Copper Water Distribution Pipe ..... | 25.36  | 4.89  |
| 33 14 13 39-0021        | LF  |  | 2" Type K Copper Water Distribution Pipe .....     | 36.79  | 6.11  |
| 33 14 13 39-0022        | LF  |  | 2-1/2" Type K Copper Water Distribution Pipe ..... | 50.36  | 7.33  |
| 33 14 13 39-0023        | LF  |  | 3" Type K Copper Water Distribution Pipe .....     | 64.99  | 8.06  |
| 33 14 13 39-0024        | LF  |  | 3-1/2" Type K Copper Water Distribution Pipe ..... | 85.51  | 10.14 |
| 33 14 13 39-0025        | LF  |  | 4" Type K Copper Water Distribution Pipe .....     | 115.44 | 12.82 |
| 33 14 13 39-0026        | LF  |  | 5" Type K Copper Water Distribution Pipe .....     | 194.97 | 16.00 |
| 33 14 13 39-0027        | LF  |  | 6" Type K Copper Water Distribution Pipe .....     | 272.01 | 19.30 |
| 33 14 13 39-0028        | LF  |  | 8" Type K Copper Water Distribution Pipe .....     | 477.98 | 21.61 |

**33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps** (33 14 13)

|                         |   |  |  |       |  |
|-------------------------|---|--|--|-------|--|
| <b>33 14 13 43-0001</b> | <b>Pipe Coatings</b> <small>(33 14 13 43)</small>   |  |  |       |  |
| <b>33 14 13 43-0002</b> | <b>Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating</b> <small>(33 14 13 43-0001)</small> |  |  |       |  |
|                         | Note: Applied at fabrication shop.  |  |  |       |  |
| 33 14 13 43-0003        | LF  |  | 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....  | 3.50  |  |
| 33 14 13 43-0004        | LF  |  | 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 4.16  |  |
| 33 14 13 43-0005        | LF  |  | 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 4.91  |  |
| 33 14 13 43-0006        | LF  |  | 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 6.53  |  |
| 33 14 13 43-0007        | LF  |  | 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 7.45  |  |
| 33 14 13 43-0008        | LF  |  | 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 7.83  |  |
| 33 14 13 43-0009        | LF  |  | 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 8.43  |  |
| 33 14 13 43-0010        | LF  |  | 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 9.83  |  |
| 33 14 13 43-0011        | LF  |  | 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 12.90 |  |
| 33 14 13 43-0012        | LF  |  | 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 20.38 |  |
| 33 14 13 43-0013        | LF  |  | 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 43.93 |  |
| 33 14 13 43-0014        | LF  |  | 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 50.20 |  |
| 33 14 13 43-0015        | LF  |  | 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 56.48 |  |
| 33 14 13 43-0016        | LF  |  | 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 62.76 |  |
| 33 14 13 43-0017        | LF  |  | 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 69.03 |  |
| 33 14 13 43-0018        | LF  |  | 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 75.28 |  |
| 33 14 13 43-0019        | LF  |  | 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating ..... | 81.58 |  |

|                         |  |  |   |       |  |
|-------------------------|--|--|---|-------|--|
| <b>33 14 13 43-0020</b> | <b>Cement Coating With Fiberglass Or Wire Mesh Reinforcing</b> <small>(33 14 13 43-0001)</small> |  |   |       |  |
|                         | Note: Applied at fabrication shop. Thickness ranging between 1" and 2".                          |  |   |       |  |
| 33 14 13 43-0021        | LF   |  | 4" Diameter Cement Coated Pipe 1" To 2" Mesh .....  | 11.94 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0022        | LF   |  | 6" Diameter Cement Coated Pipe 1" To 2" Mesh .....  | 14.69 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0023        | LF   |  | 8" Diameter Cement Coated Pipe 1" To 2" Mesh .....  | 18.37 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0024        | LF   |  | 10" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 20.46 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0025        | LF   |  | 12" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 23.11 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0026        | LF   |  | 14" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 27.04 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0027        | LF   |  | 16" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 30.72 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0028        | LF   |  | 18" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 34.66 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0029        | LF   |  | 20" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 38.52 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0030        | LF   |  | 24" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 46.21 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |
| 33 14 13 43-0031        | LF   |  | 30" Diameter Cement Coated Pipe 1" To 2" Mesh ..... | 57.76 |  |
|                         | Note: Reinforcing applied at fabrication shop.   |  |   |       |  |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 33 14 13 43-0032        | LF  | 36" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 69.32                     |                         |
| 33 14 13 43-0033        | LF  | 42" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 25.10                     |                         |
| 33 14 13 43-0034        | LF  | 48" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 28.68                     |                         |
| 33 14 13 43-0035        | LF  | 54" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 32.27                     |                         |
| 33 14 13 43-0036        | LF  | 60" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 35.85                     |                         |
| 33 14 13 43-0037        | LF  | 66" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 39.44                     |                         |
| 33 14 13 43-0038        | LF  | 72" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 43.02                     |                         |
| 33 14 13 43-0039        | LF  | 78" Diameter Cement Coated Pipe 1" To 2" Mesh .....<br>Note: Reinforcing applied at fabrication shop. | 46.61                     |                         |
| <b>33 14 13 43-0040</b> |     | <b>Pipe Lining</b> <small>(33 14 13 43)</small>   |                           |                         |
| <b>33 14 13 43-0041</b> |     | <b>Cement Pipe Lining</b> <small>(33 14 13 43-0040)</small><br>Note: Shop applied.                    |                           |                         |
| 33 14 13 43-0042        | LF  | 4" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                 | 15.43<br>1.59             |                         |
| 33 14 13 43-0043        | LF  | 6" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                 | 19.13<br>1.96             |                         |
| 33 14 13 43-0044        | LF  | 8" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                 | 23.44<br>2.45             |                         |
| 33 14 13 43-0045        | LF  | 10" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 30.24<br>3.06             |                         |
| 33 14 13 43-0046        | LF  | 12" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 37.08<br>3.68             |                         |
| 33 14 13 43-0047        | LF  | 14" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 46.75<br>4.31             |                         |
| 33 14 13 43-0048        | LF  | 16" Outside Diameter, 1/4" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 59.49<br>4.90             |                         |
| 33 14 13 43-0049        | LF  | 18" Outside Diameter, 5/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 70.55<br>4.69             |                         |
| 33 14 13 43-0050        | LF  | 20" Outside Diameter, 5/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 84.37<br>5.22             |                         |
| 33 14 13 43-0051        | LF  | 24" Outside Diameter, 5/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 102.16<br>6.26            |                         |
| 33 14 13 43-0052        | LF  | 30" Outside Diameter, 5/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 123.50<br>7.82            |                         |
| 33 14 13 43-0053        | LF  | 36" Outside Diameter, 5/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 148.58<br>9.39            |                         |
| 33 14 13 43-0054        | LF  | 42" Outside Diameter, 3/8" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 173.37<br>8.05            |                         |
| 33 14 13 43-0055        | LF  | 48" Outside Diameter, 3/8" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 198.07<br>9.21            |                         |
| 33 14 13 43-0056        | LF  | 54" Outside Diameter, 3/8" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 222.87<br>10.36           |                         |
| 33 14 13 43-0057        | LF  | 60" Outside Diameter, 3/8" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>                | 247.66<br>11.51           |                         |
| 33 14 13 43-0058        | LF  | 66" Outside Diameter, 7/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 272.36<br>6.75            |                         |
| 33 14 13 43-0059        | LF  | 72" Outside Diameter, 7/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 297.15<br>7.36            |                         |
| 33 14 13 43-0060        | LF  | 78" Outside Diameter, 7/16" Thick Cement Pipe Lining.....<br><i>For 1/2" Thick, Add</i>               | 321.95<br>7.98            |                         |
| <b>33 14 13 43-0061</b> |     | <b>Cement Fitting Lining</b> <small>(33 14 13 43-0040)</small><br>Note: Shop applied.                 |                           |                         |
| 33 14 13 43-0062        | EA  | 4" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>              | 15.43<br>1.59             |                         |
| 33 14 13 43-0063        | EA  | 6" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>              | 19.13<br>1.96             |                         |
| 33 14 13 43-0064        | EA  | 8" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>              | 29.92<br>3.18             |                         |
| 33 14 13 43-0065        | EA  | 10" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>             | 48.77<br>4.90             |                         |
| 33 14 13 43-0066        | EA  | 12" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>             | 74.16<br>7.36             |                         |
| 33 14 13 43-0067        | EA  | 14" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>             | 108.36<br>9.91            |                         |
| 33 14 13 43-0068        | EA  | 16" Outside Diameter, 1/4" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>             | 156.99<br>12.73           |                         |
| 33 14 13 43-0069        | EA  | 18" Outside Diameter, 5/16" Thick Cement Fittings Lining.....<br><i>For 1/2" Thick, Add</i>           | 211.67<br>14.08           |                         |
| 33 14 13 43-0070        | EA  | 20" Outside Diameter, 5/16" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>            | 281.06<br>17.37           |                         |
| 33 14 13 43-0071        | EA  | 24" Outside Diameter, 5/16" Thick Cement Fitting Lining.....<br><i>For 1/2" Thick, Add</i>            | 408.66<br>25.04           |                         |



| MINOR CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---------------------------|------------------------|----------------------|
|---------------------------|------------------------|----------------------|

**33 14 13 43-0072**

**8 Mil Polyethylene Encasement Tubing (33 14 13 43)**

Note: ANSI/AWWA C105/A21.5-99 section 4.2.

|                  |    |  |       |  |
|------------------|----|--|-------|--|
| 33 14 13 43-0073 | LF | 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....   | 1.93  |  |
| 33 14 13 43-0074 | LF | 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing..... | 3.12  |  |
| 33 14 13 43-0075 | LF | 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing..... | 3.79  |  |
| 33 14 13 43-0076 | LF | 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing..... | 4.75  |  |
| 33 14 13 43-0077 | LF | 24" Diameter, 8 Mil Polyethylene Encasement Tubing.....        | 6.45  |  |
| 33 14 13 43-0078 | LF | 30" Diameter, 8 Mil Polyethylene Encasement Tubing.....        | 8.28  |  |
| 33 14 13 43-0079 | LF | 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing..... | 10.55 |  |
| 33 14 13 43-0080 | LF | 48" Diameter, 8 Mil Polyethylene Encasement Tubing.....        | 12.56 |  |
| 33 14 13 43-0081 | LF | 54" Diameter, 8 Mil Polyethylene Encasement Tubing.....        | 14.84 |  |
| 33 14 13 43-0082 | LF | 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....        | 15.97 |  |

**33 14 13 53**

**Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)**

**33 14 13 53-0001**

**Double Stud Stainless Steel Service Saddles (33 14 13 53)**

Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 33 14 13 53-0002 | EA | 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....      | 282.27 |  |
| 33 14 13 53-0003 | EA | 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....      | 388.79 |  |
| 33 14 13 53-0004 | EA | 4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....                    | 402.46 |  |
| 33 14 13 53-0005 | EA | 6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....      | 335.07 |  |
| 33 14 13 53-0006 | EA | 6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....  | 418.16 |  |
| 33 14 13 53-0007 | EA | 8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....      | 350.67 |  |
| 33 14 13 53-0008 | EA | 8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....  | 438.22 |  |
| 33 14 13 53-0009 | EA | 10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....     | 393.20 |  |
| 33 14 13 53-0010 | EA | 10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)..... | 461.70 |  |
| 33 14 13 53-0011 | EA | 12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....     | 410.50 |  |
| 33 14 13 53-0012 | EA | 12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)..... | 473.05 |  |

**33 14 13 53-0013**

**Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)**

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 33 14 13 53-0014 | EA | 1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)..... | 241.69 |  |
| 33 14 13 53-0015 | EA | 2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....               | 241.84 |  |
| 33 14 13 53-0016 | EA | 2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....         | 257.37 |  |
| 33 14 13 53-0017 | EA | 2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....           | 245.45 |  |
| 33 14 13 53-0018 | EA | 3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....               | 262.53 |  |
| 33 14 13 53-0019 | EA | 3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....         | 289.19 |  |
| 33 14 13 53-0020 | EA | 3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                       | 307.43 |  |
| 33 14 13 53-0021 | EA | 4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....               | 282.09 |  |
| 33 14 13 53-0022 | EA | 4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....         | 308.96 |  |
| 33 14 13 53-0023 | EA | 4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....             | 324.79 |  |
| 33 14 13 53-0024 | EA | 5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....               | 297.75 |  |
| 33 14 13 53-0025 | EA | 5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....         | 325.41 |  |
| 33 14 13 53-0026 | EA | 5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....             | 341.18 |  |
| 33 14 13 53-0027 | EA | 6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....               | 313.88 |  |
| 33 14 13 53-0028 | EA | 6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....         | 340.80 |  |
| 33 14 13 53-0029 | EA | 6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....             | 356.38 |  |
| 33 14 13 53-0030 | EA | 6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                       | 506.19 |  |
| 33 14 13 53-0031 | EA | 6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                       | 519.86 |  |
| 33 14 13 53-0032 | EA | 8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....               | 338.88 |  |
| 33 14 13 53-0033 | EA | 8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....         | 371.03 |  |
| 33 14 13 53-0034 | EA | 8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....             | 385.62 |  |
| 33 14 13 53-0035 | EA | 8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                 | 595.63 |  |
| 33 14 13 53-0036 | EA | 10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....              | 376.91 |  |
| 33 14 13 53-0037 | EA | 10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....        | 415.13 |  |
| 33 14 13 53-0038 | EA | 10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                | 661.88 |  |
| 33 14 13 53-0039 | EA | 12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....              | 408.52 |  |
| 33 14 13 53-0040 | EA | 12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....        | 448.84 |  |
| 33 14 13 53-0041 | EA | 12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....            | 465.22 |  |
| 33 14 13 53-0042 | EA | 12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                | 735.28 |  |
| 33 14 13 53-0043 | EA | 14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....              | 471.97 |  |
| 33 14 13 53-0044 | EA | 14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....        | 503.94 |  |
| 33 14 13 53-0045 | EA | 14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....            | 541.10 |  |
| 33 14 13 53-0046 | EA | 14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                | 894.73 |  |
| 33 14 13 53-0047 | EA | 15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....              | 485.63 |  |
| 33 14 13 53-0048 | EA | 15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....        | 548.72 |  |
| 33 14 13 53-0049 | EA | 15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....            | 571.48 |  |
| 33 14 13 53-0050 | EA | 15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....                | 959.79 |  |
| 33 14 13 53-0051 | EA | 16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....              | 507.29 |  |
| 33 14 13 53-0052 | EA | 16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....        | 572.62 |  |
| 33 14 13 53-0053 | EA | 16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....            | 595.94 |  |



**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....         | 998.53                    |                         |
| 33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....       | 558.47                    |                         |
| 33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) ..... | 641.99                    |                         |
| 33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....       | 631.69                    |                         |
| 33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) ..... | 697.65                    |                         |
| 33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....       | 659.37                    |                         |
| 33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) ..... | 741.45                    |                         |
| <b>33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)</b>  |                           |                         |
| 33 14 13 53-0062 EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                   | 327.64                    |                         |
| 33 14 13 53-0063 EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                 | 357.16                    |                         |
| 33 14 13 53-0064 EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                   | 371.90                    |                         |
| 33 14 13 53-0065 EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                 | 401.68                    |                         |
| 33 14 13 53-0066 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                   | 412.29                    |                         |
| 33 14 13 53-0067 EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                 | 433.27                    |                         |
| 33 14 13 53-0068 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                   | 402.54                    |                         |
| 33 14 13 53-0069 EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                | 427.54                    |                         |
| 33 14 13 53-0070 EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                  | 502.20                    |                         |
| 33 14 13 53-0071 EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                | 541.64                    |                         |
| 33 14 13 53-0072 EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                  | 736.97                    |                         |
| 33 14 13 53-0073 EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                | 828.89                    |                         |
| 33 14 13 53-0074 EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                  | 853.87                    |                         |
| 33 14 13 53-0075 EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....                                | 949.59                    |                         |
| <b>33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)</b>   |                           |                         |
| Note: Taps are compression or NPT.  |                           |                         |
| 33 14 13 53-0077 EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....           | 342.71                    |                         |
| 33 14 13 53-0078 EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....         | 376.18                    |                         |
| 33 14 13 53-0079 EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....           | 389.70                    |                         |
| 33 14 13 53-0080 EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....         | 422.01                    |                         |
| 33 14 13 53-0081 EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....           | 434.29                    |                         |
| 33 14 13 53-0082 EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....         | 456.45                    |                         |
| 33 14 13 53-0083 EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 486.41                    |                         |
| 33 14 13 53-0084 EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 519.69                    |                         |
| 33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 522.36                    |                         |
| 33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 564.40                    |                         |
| 33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 786.93                    |                         |
| 33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 899.54                    |                         |
| 33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 913.15                    |                         |
| 33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 992.61                    |                         |
| 33 14 13 53-0091 EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 1,959.43                  |                         |
| 33 14 13 53-0092 EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 1,959.43                  |                         |
| 33 14 13 53-0093 EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 2,036.62                  |                         |
| 33 14 13 53-0094 EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 2,036.62                  |                         |
| 33 14 13 53-0095 EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....          | 2,185.49                  |                         |
| 33 14 13 53-0096 EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....        | 2,185.49                  |                         |
| <b>33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)</b>  |                           |                         |
| 33 14 13 53-0098 EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                               | 1,487.42                  |                         |
| 33 14 13 53-0099 EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                         | 1,798.13                  |                         |
| 33 14 13 53-0100 EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                         | 2,145.57                  |                         |
| 33 14 13 53-0101 EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                               | 2,266.45                  |                         |
| 33 14 13 53-0102 EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                        | 3,391.34                  |                         |
| 33 14 13 53-0103 EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 3,559.04                  |                         |
| 33 14 13 53-0104 EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 3,633.05                  |                         |
| 33 14 13 53-0105 EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                        | 3,596.34                  |                         |
| 33 14 13 53-0106 EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 3,763.37                  |                         |
| 33 14 13 53-0107 EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 4,165.13                  |                         |
| 33 14 13 53-0108 EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 4,269.84                  |                         |
| 33 14 13 53-0109 EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 7,039.57                  |                         |
| 33 14 13 53-0110 EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 7,227.84                  |                         |
| 33 14 13 53-0111 EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 7,314.51                  |                         |
| 33 14 13 53-0112 EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 7,353.84                  |                         |
| 33 14 13 53-0113 EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 7,622.95                  |                         |
| 33 14 13 53-0114 EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 7,616.74                  |                         |
| 33 14 13 53-0115 EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 7,644.09                  |                         |
| 33 14 13 53-0116 EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 7,854.03                  |                         |
| 33 14 13 53-0117 EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 7,906.34                  |                         |
| 33 14 13 53-0118 EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 7,963.53                  |                         |
| 33 14 13 53-0119 EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 12,097.24                 |                         |
| 33 14 13 53-0120 EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 8,355.19                  |                         |
| 33 14 13 53-0121 EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 10,549.32                 |                         |
| 33 14 13 53-0122 EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                              | 11,018.81                 |                         |
| 33 14 13 53-0123 EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....             | 11,161.03                 |                         |
| 33 14 13 53-0124 EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....                             | 11,580.03                 |                         |



| MINOR CSI UOM DESCRIPTION   | TOTAL DIRECT UNIT COST   | DEMOLITION UNIT COST |
|---|--|----------------------|
| 33 14 13 53-0125 EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                    | 9,922.63   |                      |
| 33 14 13 53-0126 EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                    | 9,572.41   |                      |
| 33 14 13 53-0127 EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                    | 9,753.74   |                      |
| 33 14 13 53-0128 EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 9,826.77   |                      |
| 33 14 13 53-0129 EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 10,176.07  |                      |
| 33 14 13 53-0130 EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 13,664.32  |                      |
| 33 14 13 53-0131 EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)       | 13,938.47  |                      |
| 33 14 13 53-0132 EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)          | 11,968.42  |                      |
| 33 14 13 53-0133 EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 12,136.40  |                      |
| 33 14 13 53-0134 EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 12,186.12  |                      |
| 33 14 13 53-0135 EA 24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 16,758.85  |                      |
| 33 14 13 53-0136 EA 24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 16,977.48  |                      |
| 33 14 13 53-0137 EA 24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 17,032.15  |                      |
| 33 14 13 53-0138 EA 24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 17,496.67  |                      |
| 33 14 13 53-0139 EA 24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)                   | 17,721.19  |                      |
| <br>  |  |                      |
| <b>33 14 13 53-0140</b>   | <b>Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve <small>(33 14 13 53)</small></b> |                      |
| 33 14 13 53-0141 EA 4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)   | 1,224.61   |                      |
| 33 14 13 53-0142 EA 6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)   | 1,308.46   |                      |
| 33 14 13 53-0143 EA 6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)   | 1,426.60   |                      |
| 33 14 13 53-0144 EA 8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)   | 1,474.35   |                      |
| 33 14 13 53-0145 EA 8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)   | 1,534.97   |                      |
| 33 14 13 53-0146 EA 8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)   | 1,752.65   |                      |
| 33 14 13 53-0147 EA 10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 1,612.92   |                      |
| 33 14 13 53-0148 EA 10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 1,672.02   |                      |
| 33 14 13 53-0149 EA 10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 1,863.80   |                      |
| 33 14 13 53-0150 EA 10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 2,536.84   |                      |
| 33 14 13 53-0151 EA 12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 1,818.71   |                      |
| 33 14 13 53-0152 EA 12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 1,903.81   |                      |
| 33 14 13 53-0153 EA 12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,092.58   |                      |
| 33 14 13 53-0154 EA 12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 2,695.87   |                      |
| 33 14 13 53-0155 EA 12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 2,931.70   |                      |
| 33 14 13 53-0156 EA 14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,371.34   |                      |
| 33 14 13 53-0157 EA 14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,442.33   |                      |
| 33 14 13 53-0158 EA 14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,843.51   |                      |
| 33 14 13 53-0159 EA 14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 3,340.08   |                      |
| 33 14 13 53-0160 EA 14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 3,664.18   |                      |
| 33 14 13 53-0161 EA 16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,808.41   |                      |
| 33 14 13 53-0162 EA 16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,881.58   |                      |
| 33 14 13 53-0163 EA 16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 3,148.30   |                      |
| 33 14 13 53-0164 EA 16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 3,857.08   |                      |
| 33 14 13 53-0165 EA 16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 4,027.18   |                      |
| 33 14 13 53-0166 EA 18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 2,991.96   |                      |
| 33 14 13 53-0167 EA 18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 3,121.77   |                      |
| 33 14 13 53-0168 EA 18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 3,300.78   |                      |
| 33 14 13 53-0169 EA 18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 4,134.20   |                      |
| 33 14 13 53-0170 EA 18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 4,304.12   |                      |
| 33 14 13 53-0171 EA 20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 3,598.21   |                      |
| 33 14 13 53-0172 EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 3,671.24   |                      |
| 33 14 13 53-0173 EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 4,068.74   |                      |
| 33 14 13 53-0174 EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 4,738.53   |                      |
| 33 14 13 53-0175 EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 5,024.70   |                      |
| 33 14 13 53-0176 EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 3,890.86   |                      |
| 33 14 13 53-0177 EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 4,046.83   |                      |
| 33 14 13 53-0178 EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)  | 4,256.27   |                      |
| 33 14 13 53-0179 EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 5,205.52   |                      |
| 33 14 13 53-0180 EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) | 5,382.53   |                      |
| <br>  |  |                      |
| <b>33 14 13 53-0181</b>   | <b>Stainless Steel Flange, Stainless Steel Tapping Sleeve <small>(33 14 13 53)</small></b>           |                      |
| 33 14 13 53-0182 EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)             | 1,405.66   |                      |
| 33 14 13 53-0183 EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)             | 1,537.13   |                      |
| 33 14 13 53-0184 EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)             | 1,625.86   |                      |
| 33 14 13 53-0185 EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)             | 1,665.63   |                      |
| 33 14 13 53-0186 EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)             | 1,767.33   |                      |
| 33 14 13 53-0187 EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)             | 2,064.37   |                      |
| 33 14 13 53-0188 EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 1,909.05   |                      |
| 33 14 13 53-0189 EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,021.44   |                      |
| 33 14 13 53-0190 EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,288.05   |                      |
| 33 14 13 53-0191 EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)           | 3,056.22   |                      |
| 33 14 13 53-0192 EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,182.25   |                      |
| 33 14 13 53-0193 EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,334.23   |                      |
| 33 14 13 53-0194 EA 12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,685.34   |                      |
| 33 14 13 53-0195 EA 12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)           | 3,141.76   |                      |
| 33 14 13 53-0196 EA 12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)           | 3,491.51   |                      |
| 33 14 13 53-0197 EA 14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,491.12   |                      |
| 33 14 13 53-0198 EA 14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 2,676.79   |                      |
| 33 14 13 53-0199 EA 14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)            | 3,071.71   |                      |
| 33 14 13 53-0200 EA 14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)           | 3,528.57   |                      |
| 33 14 13 53-0201 EA 14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)           | 3,771.80   |                      |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |          |  |
|------------------|----|---|----------|--|
| 33 14 13 53-0202 | EA | 16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,025.99 |  |
| 33 14 13 53-0203 | EA | 16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,278.56 |  |
| 33 14 13 53-0204 | EA | 16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,471.82 |  |
| 33 14 13 53-0205 | EA | 16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 3,962.80 |  |
| 33 14 13 53-0206 | EA | 16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 4,296.95 |  |
| 33 14 13 53-0207 | EA | 18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,343.15 |  |
| 33 14 13 53-0208 | EA | 18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,718.98 |  |
| 33 14 13 53-0209 | EA | 18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,920.54 |  |
| 33 14 13 53-0210 | EA | 18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 4,352.38 |  |
| 33 14 13 53-0211 | EA | 18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 4,922.64 |  |
| 33 14 13 53-0212 | EA | 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,618.95 |  |
| 33 14 13 53-0213 | EA | 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 3,993.82 |  |
| 33 14 13 53-0214 | EA | 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 4,158.22 |  |
| 33 14 13 53-0215 | EA | 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 4,958.92 |  |
| 33 14 13 53-0216 | EA | 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 5,406.11 |  |
| 33 14 13 53-0217 | EA | 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 4,273.87 |  |
| 33 14 13 53-0218 | EA | 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 4,330.10 |  |
| 33 14 13 53-0219 | EA | 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)  | 4,526.57 |  |
| 33 14 13 53-0220 | EA | 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 5,481.68 |  |
| 33 14 13 53-0221 | EA | 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) | 5,993.03 |  |

**33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter** (33 14 13 53)

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 33 14 13 53-0223 | EA | 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)  | 373.37   | 82.04  |
| 33 14 13 53-0224 | EA | 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)  | 468.14   | 103.44 |
| 33 14 13 53-0225 | EA | 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)  | 619.03   | 142.68 |
| 33 14 13 53-0226 | EA | 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)  | 793.28   | 167.65 |
| 33 14 13 53-0227 | EA | 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912) | 1,207.18 | 189.05 |
| 33 14 13 53-0228 | EA | 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912) | 1,350.07 | 214.03 |

**33 14 13 53-0229 Steel Body, Flanged Coupling Adapter** (33 14 13 53)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 33 14 13 53-0230 | EA | 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)  | 525.23   | 82.04  |
| 33 14 13 53-0231 | EA | 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)  | 624.40   | 103.44 |
| 33 14 13 53-0232 | EA | 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)  | 836.09   | 142.68 |
| 33 14 13 53-0233 | EA | 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)  | 1,019.19 | 167.65 |
| 33 14 13 53-0234 | EA | 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) | 1,236.16 | 189.05 |
| 33 14 13 53-0235 | EA | 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) | 1,437.22 | 214.03 |
| 33 14 13 53-0236 | EA | 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) | 1,697.73 | 235.43 |
| 33 14 13 53-0237 | EA | 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) | 1,999.26 | 256.83 |
| 33 14 13 53-0238 | EA | 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) | 2,350.26 | 282.51 |
| 33 14 13 53-0239 | EA | 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913) | 2,765.34 | 310.76 |

**33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters** (33 14 13 53)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 33 14 13 53-0241 | EA | 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)  | 478.30   | 103.44 |
| 33 14 13 53-0242 | EA | 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)  | 644.10   | 142.68 |
| 33 14 13 53-0243 | EA | 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)  | 718.26   | 167.65 |
| 33 14 13 53-0244 | EA | 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 1,019.62 | 189.05 |
| 33 14 13 53-0245 | EA | 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 1,284.68 | 214.03 |
| 33 14 13 53-0246 | EA | 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 1,438.50 | 235.43 |
| 33 14 13 53-0247 | EA | 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 1,680.54 | 256.83 |
| 33 14 13 53-0248 | EA | 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 1,882.98 | 282.51 |
| 33 14 13 53-0249 | EA | 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 2,247.94 | 310.76 |
| 33 14 13 53-0250 | EA | 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 2,690.89 | 341.87 |
| 33 14 13 53-0251 | EA | 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 5,429.26 | 375.97 |
| 33 14 13 53-0252 | EA | 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911) | 7,278.37 | 413.64 |

**33 14 13 53-0253 Ductile Iron Body, Omni Coupling System** (33 14 13 53)

|                  |    |  |          |        |
|------------------|----|--|----------|--------|
| 33 14 13 53-0254 | EA | 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)     | 179.24   | 57.07  |
| 33 14 13 53-0255 | EA | 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441) | 219.72   | 67.77  |
| 33 14 13 53-0256 | EA | 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)     | 271.04   | 82.04  |
| 33 14 13 53-0257 | EA | 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)     | 340.58   | 103.44 |
| 33 14 13 53-0258 | EA | 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)     | 456.84   | 142.68 |
| 33 14 13 53-0259 | EA | 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)     | 552.06   | 167.65 |
| 33 14 13 53-0260 | EA | 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)    | 679.04   | 189.05 |
| 33 14 13 53-0261 | EA | 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)    | 790.41   | 214.03 |
| 33 14 13 53-0262 | EA | 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)    | 1,077.05 | 235.43 |
| 33 14 13 53-0263 | EA | 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)    | 1,324.33 | 256.83 |

**33 14 19 Valves and Hydrants for Water Utility Service** (33 14)

Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill. See CSI section 23 21 13 23-0713 for bolt and gasket sets.

**33 14 19 00-0001 Water Utility Distribution Valves** (33 14 19)**33 14 19 00-0002 Angle Valves** (33 14 19 00-0001)

Note: For connecting meters to water service.



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

|                         |  |          |        |
|-------------------------|--|----------|--------|
| <b>33 14 19 00-0003</b> | <b>Threaded, Class 150, Bronze Angle Valve</b> <small>(33 14 19 00-0002)</small> |          |        |
| Note: Nibco T-335Y      |  |          |        |
| 33 14 19 00-0004        | EA 1/2" Threaded, Class 150, Bronze Angle Valve.....                             | 113.10   | 24.50  |
| 33 14 19 00-0005        | EA 3/4" Threaded, Class 150, Bronze Angle Valve.....                             | 152.51   | 32.92  |
| 33 14 19 00-0006        | EA 1" Threaded, Class 150, Bronze Angle Valve.....                               | 202.94   | 40.58  |
| 33 14 19 00-0007        | EA 1-1/4" Threaded, Class 150, Bronze Angle Valve.....                           | 260.83   | 50.99  |
| 33 14 19 00-0008        | EA 1-1/2" Threaded, Class 150, Bronze Angle Valve.....                           | 323.04   | 58.96  |
| 33 14 19 00-0009        | EA 2" Threaded, Class 150, Bronze Angle Valve.....                               | 471.86   | 68.91  |
| 33 14 19 00-0010        | EA 2-1/2" Threaded, Class 150, Bronze Angle Valve.....                           | 746.09   | 94.03  |
| 33 14 19 00-0011        | EA 3" Threaded, Class 150, Bronze Angle Valve.....                               | 1,113.72 | 108.55 |

**33 14 19 00-0012** **Butterfly Valves** (33 14 19 00-0001)

**33 14 19 00-0013** **Lug Type Flanged, Cast Iron Disc, Butterfly Valves** (33 14 19 00-0012)

|  |  |           |          |
|--|--|-----------|----------|
| Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin |  |           |          |
| 33 14 19 00-0014   | EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....     | 2,048.10  | 260.32   |
| 33 14 19 00-0015   | EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....    | 2,281.40  | 260.32   |
| 33 14 19 00-0016   | EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....     | 2,340.67  | 402.79   |
| 33 14 19 00-0017   | EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....    | 2,571.98  | 402.79   |
| 33 14 19 00-0018   | EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....     | 2,657.87  | 449.69   |
| 33 14 19 00-0019   | EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....    | 2,889.18  | 449.69   |
| 33 14 19 00-0020   | EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....     | 3,029.28  | 574.61   |
| 33 14 19 00-0021   | EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....    | 3,248.89  | 574.61   |
| 33 14 19 00-0022   | EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....   | 3,781.71  | 699.52   |
| 33 14 19 00-0023   | EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....  | 4,998.42  | 699.52   |
| 33 14 19 00-0024   | EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....   | 4,340.73  | 847.89   |
| 33 14 19 00-0025   | EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....  | 4,572.04  | 847.89   |
| 33 14 19 00-0026   | EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12 Modified).....  | 5,759.37  | 1,135.21 |
| 33 14 19 00-0027   | EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12 Modified)..... | 6,364.22  | 1,135.21 |
| 33 14 19 00-0028   | EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16 Modified).....  | 6,694.89  | 1,248.73 |
| 33 14 19 00-0029   | EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20 Modified)..... | 7,436.68  | 1,248.73 |
| 33 14 19 00-0030   | EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified).....  | 8,359.38  | 1,384.96 |
| 33 14 19 00-0031   | EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified)..... | 9,145.03  | 1,384.96 |
| 33 14 19 00-0032   | EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified).....  | 9,575.01  | 1,560.91 |
| 33 14 19 00-0033   | EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified)..... | 10,359.33 | 1,560.91 |

**33 14 19 00-0034** **Lug Type Flanged, Ductile Iron Disc, Butterfly Valves** (33 14 19 00-0012)

|   |  |  |  |
|---|--|--|--|
| Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin |  |  |  |
|---|--|--|--|

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| 33 14 19 00-0035 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified)..... | 15,870.13   | 1,915.67                |
| 33 14 19 00-0036 EA 24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified).....    | 24,576.98   | 1,915.67                |
| 33 14 19 00-0037 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified).....  | 15,823.47   | 1,915.67                |
| 33 14 19 00-0038 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)..... | 32,327.27   | 3,061.64                |
| 33 14 19 00-0039 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)..... | 38,371.67   | 4,082.18                |
| 33 14 19 00-0040 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified)..... | 48,948.63   | 6,123.27                |
| 33 14 19 00-0041 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified)..... | 63,880.43   | 7,654.09                |
| 33 14 19 00-0042 EA 54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified)..... | 107,051.17  | 9,184.91                |
| 33 14 19 00-0043 EA 60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified)..... | 134,040.13  | 11,021.89               |
| 33 14 19 00-0044 EA 72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36 Modified)..... | 191,789.67  | 13,226.27               |
| 33 14 19 00-0045 LF 3/16" Link, 316 Stainless Steel Chain For Use With Dezurik Chainwheel.....   | 17.63   |                         |
| 33 14 19 00-0046 EA 316 Stainless Steel Closing Link For Use With Dezurik Chainwheel.....  | 9.33  |                         |
| Note: One required per valve.  |   |                         |
| <b>33 14 19 00-0047</b>  | <b>Check Valves</b> (33 14 19 00-0001)                                      |                         |
| <b>33 14 19 00-0048</b>  | <b>Flanged, Swing Type Gravity Operated Check Valves</b> (33 14 19 00-0047) |                         |
| Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.   |   |                         |
| 33 14 19 00-0049 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....   | 1,089.93  | 204.42                  |
| 33 14 19 00-0050 EA 3" Flanged, Swing Type Gravity Operated Check Valve.....   | 1,133.56  | 239.67                  |
| 33 14 19 00-0051 EA 4" Flanged, Swing Type Gravity Operated Check Valve.....   | 1,630.33  | 303.11                  |
| 33 14 19 00-0052 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....  | 2,180.06  | 456.08                  |
| 33 14 19 00-0053 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....  | 2,279.46  | 509.35                  |
| 33 14 19 00-0054 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....   | 2,183.27  | 507.53                  |
| 33 14 19 00-0055 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....  | 2,815.66  | 576.92                  |
| 33 14 19 00-0056 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....   | 2,956.43  | 648.52                  |
| 33 14 19 00-0057 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....   | 3,069.33  | 648.52                  |
| 33 14 19 00-0058 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....  | 5,048.62  | 789.49                  |
| 33 14 19 00-0059 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....  | 7,542.33  | 592.12                  |
| 33 14 19 00-0060 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....  | 10,411.88   | 1,135.21                |
| 33 14 19 00-0061 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....  | 13,749.14   | 1,248.73                |
| 33 14 19 00-0062 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....  | 19,783.32   | 1,384.96                |
| 33 14 19 00-0063 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....  | 23,013.31   | 1,560.91                |
| <b>33 14 19 00-0064</b>  | <b>Combination Air Release Valves</b> (33 14 19 00-0001)                    |                         |
| 33 14 19 00-0065 EA 1" Combination Air Release Valve.....  | 641.76  | 29.60                   |
| 33 14 19 00-0066 EA 2" Combination Air Release Valve.....  | 1,037.29  | 50.75                   |
| <b>33 14 19 00-0067</b>  | <b>Corporation Stop And Curb Valve</b> (33 14 19 00-0001)                   |                         |
| Note: AWWA C800  |   |                         |
| <b>33 14 19 00-0068</b>  | <b>Ball Corporation Valves</b> (33 14 19 00-0067)                           |                         |
| Note: Mueller B-25000.   |   |                         |
| 33 14 19 00-0069 EA 3/4" Ball Corporation Valve (Mueller B-25000).....   | 96.19   | 29.60                   |
| 33 14 19 00-0070 EA 1" Ball Corporation Valve (Mueller B-25000).....   | 120.37  | 36.65                   |
| 33 14 19 00-0071 EA 1-1/2" Ball Corporation Valve (Mueller B-25000).....   | 207.34  | 53.58                   |
| 33 14 19 00-0072 EA 2" Ball Corporation Valve (Mueller B-25000).....   | 300.85  | 63.44                   |
| <b>33 14 19 00-0073</b>  | <b>Gate Valve, AWWA C500 And C509</b> (33 14 19 00-0001)                    |                         |
| <b>33 14 19 00-0074</b>  | <b>Gate Valve, Flanged</b> (33 14 19 00-0073)                               |                         |
| Note: Mueller A-2380-6.  |   |                         |
| 33 14 19 00-0075 EA 2" Gate Valve, Flanged.....  | 705.28  | 187.93                  |
| 33 14 19 00-0076 EA 2-1/2" Gate Valve, Flanged.....  | 817.90  | 204.42                  |
| 33 14 19 00-0077 EA 3" Gate Valve, Flanged.....  | 966.39  | 239.67                  |
| 33 14 19 00-0078 EA 4" Gate Valve, Flanged.....  | 1,345.30  | 300.28                  |
| 33 14 19 00-0079 EA 6" Gate Valve, Flanged.....  | 1,632.23  | 507.53                  |
| 33 14 19 00-0080 EA 8" Gate Valve, Flanged.....  | 2,361.32  | 648.52                  |
| 33 14 19 00-0081 EA 10" Gate Valve, Flanged.....   | 3,459.05  | 789.49                  |
| 33 14 19 00-0082 EA 12" Gate Valve, Flanged.....   | 4,169.06  | 592.12                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 19 00-0083 EA 14" Gate Valve, Flanged.....  | 8,547.52                  | 1,135.21                |
| 33 14 19 00-0084 EA 16" Gate Valve, Flanged.....  | 11,086.70                 | 1,248.73                |
| 33 14 19 00-0085 EA 18" Gate Valve, Flanged.....  | 17,323.26                 | 1,384.96                |
| 33 14 19 00-0086 EA 20" Gate Valve, Flanged.....  | 20,677.53                 | 1,560.91                |
| <b>33 14 19 00-0087 Resilient Wedge Gate Valve, Flanged</b> <small>(33 14 19 00-0073)</small>                         |                           |                         |
| <small>Note: Mueller A-2360-6.</small>  |                           |                         |
| 33 14 19 00-0088 EA 2" Resilient Wedge Gate Valve, Flanged.....   | 678.67                    | 187.93                  |
| 33 14 19 00-0089 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....   | 786.12                    | 204.42                  |
| 33 14 19 00-0090 EA 3" Resilient Wedge Gate Valve, Flanged.....   | 928.67                    | 239.67                  |
| 33 14 19 00-0091 EA 4" Resilient Wedge Gate Valve, Flanged.....   | 1,303.14                  | 300.28                  |
| 33 14 19 00-0092 EA 6" Resilient Wedge Gate Valve, Flanged.....   | 1,575.86                  | 507.53                  |
| 33 14 19 00-0093 EA 8" Resilient Wedge Gate Valve, Flanged.....   | 2,273.27                  | 648.52                  |
| 33 14 19 00-0094 EA 10" Resilient Wedge Gate Valve, Flanged.....  | 3,319.13                  | 789.49                  |
| 33 14 19 00-0095 EA 12" Resilient Wedge Gate Valve, Flanged.....  | 4,000.12                  | 592.12                  |
| <b>33 14 19 00-0096 Gate Valve, Mechanical Joint</b> <small>(33 14 19 00-0073)</small>                                |                           |                         |
| <small>Note: Mueller A-2380-20.</small>   |                           |                         |
| 33 14 19 00-0097 EA 2" Gate Valve, Mechanical Joint.....  | 836.85                    | 150.14                  |
| 33 14 19 00-0098 EA 2-1/2" Gate Valve, Mechanical Joint.....  | 927.17                    | 188.21                  |
| 33 14 19 00-0099 EA 3" Gate Valve, Mechanical Joint.....  | 1,157.89                  | 227.68                  |
| 33 14 19 00-0100 EA 4" Gate Valve, Mechanical Joint.....  | 1,404.17                  | 300.28                  |
| 33 14 19 00-0101 EA 6" Gate Valve, Mechanical Joint.....  | 1,745.12                  | 352.45                  |
| 33 14 19 00-0102 EA 8" Gate Valve, Mechanical Joint.....  | 2,464.15                  | 422.94                  |
| 33 14 19 00-0103 EA 10" Gate Valve, Mechanical Joint.....   | 3,501.75                  | 493.44                  |
| 33 14 19 00-0104 EA 12" Gate Valve, Mechanical Joint.....   | 4,362.95                  | 592.12                  |
| 33 14 19 00-0105 EA 14" Gate Valve, Mechanical Joint.....   | 9,047.97                  | 695.32                  |
| 33 14 19 00-0106 EA 16" Gate Valve, Mechanical Joint.....   | 11,628.46                 | 780.46                  |
| 33 14 19 00-0107 EA 18" Gate Valve, Mechanical Joint.....   | 18,293.60                 | 865.60                  |
| 33 14 19 00-0108 EA 20" Gate Valve, Mechanical Joint.....   | 21,724.54                 | 975.57                  |
| <b>33 14 19 00-0109 Resilient Wedge Gate Valve, Mechanical Joint</b> <small>(33 14 19 00-0073)</small>                |                           |                         |
| <small>Note: Mueller A-2360-20.</small>   |                           |                         |
| 33 14 19 00-0110 EA 2" Resilient Wedge Gate Valve, Mechanical Joint.....  | 806.47                    | 150.14                  |
| 33 14 19 00-0111 EA 3" Resilient Wedge Gate Valve, Mechanical Joint.....  | 1,118.12                  | 227.68                  |
| 33 14 19 00-0112 EA 4" Resilient Wedge Gate Valve, Mechanical Joint.....  | 1,358.68                  | 300.28                  |
| 33 14 19 00-0113 EA 6" Resilient Wedge Gate Valve, Mechanical Joint.....  | 1,686.25                  | 352.45                  |
| 33 14 19 00-0114 EA 8" Resilient Wedge Gate Valve, Mechanical Joint.....  | 2,372.56                  | 422.94                  |
| 33 14 19 00-0115 EA 10" Resilient Wedge Gate Valve, Mechanical Joint.....   | 3,359.40                  | 493.44                  |
| 33 14 19 00-0116 EA 12" Resilient Wedge Gate Valve, Mechanical Joint.....   | 4,183.00                  | 592.12                  |
| <b>33 14 19 00-0117 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint</b> <small>(33 14 19 00-0073)</small> |                           |                         |
| <small>Note: Mueller A-2361.</small>  |                           |                         |
| 33 14 19 00-0118 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....                             | 8,340.85                  | 1,135.21                |
| 33 14 19 00-0119 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....                             | 9,070.65                  | 1,248.73                |
| 33 14 19 00-0120 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....                             | 14,021.31                 | 1,384.96                |
| 33 14 19 00-0121 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....                             | 16,715.25                 | 1,560.91                |
| 33 14 19 00-0122 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....                             | 23,676.18                 | 1,915.67                |
| <b>33 14 19 00-0123 Gate Valve, Threaded, WW-V-51 Class A, Type 1</b> <small>(33 14 19 00-0073)</small>               |                           |                         |
| <small>Note: NIBCO T-113.</small>   |                           |                         |
| 33 14 19 00-0124 EA 1/4" Gate Valve, Bronze, Threaded.....  | 70.27                     | 24.66                   |
| 33 14 19 00-0125 EA 3/8" Gate Valve, Bronze, Threaded.....  | 72.61                     | 24.66                   |
| 33 14 19 00-0126 EA 1/2" Gate Valve, Bronze, Threaded.....  | 72.65                     | 24.66                   |
| 33 14 19 00-0127 EA 3/4" Gate Valve, Bronze, Threaded.....  | 94.28                     | 33.30                   |
| 33 14 19 00-0128 EA 1" Gate Valve, Bronze, Threaded.....  | 115.89                    | 40.27                   |
| 33 14 19 00-0129 EA 1-1/4" Gate Valve, Bronze, Threaded.....  | 155.68                    | 50.99                   |
| 33 14 19 00-0130 EA 1-1/2" Gate Valve, Bronze, Threaded.....  | 180.48                    | 58.96                   |
| 33 14 19 00-0131 EA 2" Gate Valve, Bronze, Threaded.....  | 218.07                    | 68.91                   |
| 33 14 19 00-0132 EA 2-1/2" Gate Valve, Bronze, Threaded.....  | 400.30                    | 94.03                   |
| 33 14 19 00-0133 EA 3" Gate Valve, Bronze, Threaded.....  | 477.75                    | 107.85                  |
| <b>33 14 19 00-0134 Globe Valve, AWWA</b> <small>(33 14 19 00-0001)</small>   |                           |                         |
| <b>33 14 19 00-0135 Globe Valve, Threaded, WW-V-51 Class B, Type 1</b> <small>(33 14 19 00-0134)</small>              |                           |                         |
| <small>Note: NIBCO T-235.</small>   |                           |                         |
| 33 14 19 00-0136 EA 1/8" Globe Valve, Threaded.....   | 96.02                     | 24.66                   |
| 33 14 19 00-0137 EA 1/4" Globe Valve, Threaded.....   | 91.30                     | 24.66                   |
| 33 14 19 00-0138 EA 3/8" Globe Valve, Threaded.....   | 93.64                     | 24.66                   |
| 33 14 19 00-0139 EA 1/2" Globe Valve, Threaded.....   | 96.02                     | 24.66                   |
| 33 14 19 00-0140 EA 3/4" Globe Valve, Threaded.....   | 130.32                    | 33.30                   |
| 33 14 19 00-0141 EA 1" Globe Valve, Threaded.....   | 179.64                    | 40.27                   |
| 33 14 19 00-0142 EA 1-1/4" Globe Valve, Threaded.....   | 258.71                    | 50.99                   |
| 33 14 19 00-0143 EA 1-1/2" Globe Valve, Threaded.....   | 307.84                    | 58.96                   |
| 33 14 19 00-0144 EA 2" Globe Valve, Threaded.....   | 422.93                    | 68.91                   |
| 33 14 19 00-0145 EA 2-1/2" Globe Valve, Threaded.....   | 760.20                    | 94.03                   |

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 14 19 00-0146 EA 3" Globe Valve, Threaded.....  | 1,030.75                  | 108.41                  |
| <b>33 14 19 00-0147 Tapping Valve, AWWA C500 And C509</b> (33 14 19 00-0001)                                   |                           |                         |
| <b>33 14 19 00-0148 Tapping Valve, AWWA C500 And C509</b> (33 14 19 00-0147)                                   |                           |                         |
| Note: Flanged inlet X mechanical joint, Mueller H-667.   |                           |                         |
| 33 14 19 00-0149 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....              | 958.84                    | 187.93                  |
| 33 14 19 00-0150 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....              | 1,234.32                  | 239.67                  |
| 33 14 19 00-0151 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....              | 1,604.10                  | 300.28                  |
| 33 14 19 00-0152 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....              | 2,027.71                  | 507.53                  |
| 33 14 19 00-0153 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....              | 2,868.52                  | 648.52                  |
| 33 14 19 00-0154 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....              | 4,075.42                  | 789.49                  |
| 33 14 19 00-0155 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....              | 5,904.64                  | 592.12                  |
| 33 14 19 00-0156 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....              | 10,332.74                 | 1,135.21                |
| 33 14 19 00-0157 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....              | 12,977.10                 | 1,248.73                |
| 33 14 19 00-0158 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....              | 20,675.25                 | 1,384.96                |
| <b>33 14 19 00-0159 Accessories For Valves</b> (33 14 19)  |                           |                         |
| 33 14 19 00-0160 EA 1" Valve Extension Stem.....   | 133.44                    |                         |
| For Each Additional LF, Add  | 9.35                      |                         |
| 33 14 19 00-0161 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly .....                            | 1,704.99                  | 140.98                  |
| Note: Excludes valve.  |                           |                         |
| 33 14 19 00-0162 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly .....                         | 1,931.90                  | 155.08                  |
| Note: Excludes valve.  |                           |                         |
| 33 14 19 00-0163 EA Adjust Water Valve Box To Grade .....  | 140.98                    |                         |
| <b>33 14 19 00-0164 Utility Box</b> (33 14 19)   |                           |                         |
| Note: Christy Concrete Products.   |                           |                         |
| <b>33 14 19 00-0165 B3 Utility Box, 9-3/8" x 15-1/2"</b> (33 14 19 00-0164)                                    |                           |                         |
| 33 14 19 00-0166 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....   | 135.65                    | 69.59                   |
| 33 14 19 00-0167 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....  | 124.95                    | 7.74                    |
| 33 14 19 00-0168 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box .....                             | 53.98                     | 7.74                    |
| 33 14 19 00-0169 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....                          | 269.26                    | 7.74                    |
| 33 14 19 00-0170 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box .....          | 78.49                     | 15.46                   |
| 33 14 19 00-0171 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box .....                    | 109.85                    | 15.46                   |
| <b>33 14 19 00-0172 B9 Utility Box, 10-1/4" x 17-1/4"</b> (33 14 19 00-0164)                                   |                           |                         |
| 33 14 19 00-0173 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....  | 166.38                    | 92.79                   |
| 33 14 19 00-0174 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....                                       | 146.48                    | 9.28                    |
| 33 14 19 00-0175 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box .....                            | 60.22                     | 9.28                    |
| 33 14 19 00-0176 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box .....                        | 282.31                    | 7.74                    |
| 33 14 19 00-0177 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....              | 87.11                     | 15.46                   |
| 33 14 19 00-0178 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box .....               | 117.76                    | 23.20                   |
| 33 14 19 00-0179 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box .....             | 146.09                    | 42.53                   |
| <b>33 14 19 00-0180 B12 Utility Box, 12" x 20"</b> (33 14 19 00-0164)  |                           |                         |
| 33 14 19 00-0181 EA 12" x 20" Precast Concrete Utility Box.....  | 182.59                    | 100.53                  |
| 33 14 19 00-0182 EA Cast Iron Lid For 12" x 20" Utility Box.....   | 261.52                    | 11.60                   |
| 33 14 19 00-0183 EA Reinforced Concrete Lid For 12" x 20" Utility Box.....                                     | 82.08                     | 15.46                   |
| 33 14 19 00-0184 EA Steel Checkered Plate Cover For 12" x 20" Utility Box .....                                | 381.93                    | 15.46                   |
| 33 14 19 00-0185 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box .....                     | 189.91                    | 54.13                   |
| <b>33 14 19 00-0186 B16 Utility Box, 12" x 22-1/4"</b> (33 14 19 00-0164)                                      |                           |                         |
| 33 14 19 00-0187 EA 12" x 22-1/4" Precast Concrete Utility Box.....  | 210.58                    | 117.54                  |
| 33 14 19 00-0188 EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....   | 296.53                    | 15.46                   |
| 33 14 19 00-0189 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....                                 | 99.87                     | 15.46                   |
| 33 14 19 00-0190 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box .....                            | 384.04                    | 15.46                   |
| 33 14 19 00-0191 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box .....                     | 142.21                    | 26.30                   |
| 33 14 19 00-0192 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box .....                 | 192.86                    | 54.13                   |
| <b>33 14 19 00-0193 B30 Utility Box, 13-1/4" x 24"</b> (33 14 19 00-0164)                                      |                           |                         |
| 33 14 19 00-0194 EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX) .....                          | 253.14                    | 139.18                  |
| 33 14 19 00-0195 EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D) .....                 | 136.21                    | 24.75                   |
| 33 14 19 00-0196 EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G) .....          | 475.20                    | 20.11                   |
| 33 14 19 00-0197 EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....      | 142.21                    | 26.30                   |
| 33 14 19 00-0198 EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA) .....   | 219.17                    | 43.31                   |
| 33 14 19 00-0199 EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6) .....  | 169.25                    | 29.38                   |
| 33 14 19 00-0200 EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12)..... | 249.66                    | 69.59                   |
| <b>33 14 19 00-0201 B36 Utility Box, 17-1/4" x 30"</b> (33 14 19 00-0164)                                      |                           |                         |
| 33 14 19 00-0202 EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX) .....                          | 329.61                    | 176.30                  |
| 33 14 19 00-0203 EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D) .....                 | 222.89                    | 42.53                   |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 14 19 00-0204 EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....              | 597.50                    | 29.38                   |
| 33 14 19 00-0205 EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....         | 208.36                    | 55.68                   |
| 33 14 19 00-0206 EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....           | 338.58                    | 61.87                   |
| 33 14 19 00-0207 EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....    | 331.95                    | 89.70                   |
| <b>33 14 19 00-0208 B40 Utility Box, 24-1/2" x 36"</b> <small>(33 14 19 00-0164)</small>                          |                           |                         |
| 33 14 19 00-0209 EA 24-1/2" x 36" Precast Concrete Utility Box.....   | 661.93                    | 272.19                  |
| 33 14 19 00-0210 EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....                                    | 603.75                    | 102.07                  |
| 33 14 19 00-0211 EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....                                | 850.03                    | 44.85                   |
| 33 14 19 00-0212 EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....                         | 499.04                    | 95.89                   |
| 33 14 19 00-0213 EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....                     | 528.93                    | 100.53                  |
| <b>33 14 19 00-0214 B48 Utility Box, 30-1/4" x 48-1/4"</b> <small>(33 14 19 00-0164)</small>                      |                           |                         |
| 33 14 19 00-0215 EA 30-1/4" x 48-1/4" Precast Concrete Utility Box.....   | 851.04                    | 309.31                  |
| 33 14 19 00-0216 EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....                        | 844.29                    | 168.57                  |
| 33 14 19 00-0217 EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....                        | 1,045.50                  | 168.57                  |
| 33 14 19 00-0218 EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....                    | 1,348.47                  | 77.33                   |
| 33 14 19 00-0219 EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....                     | 755.28                    | 208.79                  |
| 33 14 19 00-0220 EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....                 | 660.88                    | 140.73                  |
| <b>33 14 19 00-0221 Fire Hydrants</b> <small>(33 14 19)</small>   |                           |                         |
| Note: Breakaway type.   |                           |                         |
| <b>33 14 19 00-0222 Three Way, Standard (Traditional) Model Fire Hydrant</b> <small>(33 14 19 00-0221)</small>    |                           |                         |
| Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).                              |                           |                         |
| 33 14 19 00-0223 EA 1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 3,630.67                  | 349.76                  |
| 33 14 19 00-0224 EA 2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 3,697.18                  | 349.76                  |
| 33 14 19 00-0225 EA 2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 3,763.86                  | 349.76                  |
| 33 14 19 00-0226 EA 3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 3,855.20                  | 374.74                  |
| 33 14 19 00-0227 EA 3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 3,921.78                  | 374.74                  |
| 33 14 19 00-0228 EA 4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,019.66                  | 405.98                  |
| 33 14 19 00-0229 EA 4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,086.13                  | 405.98                  |
| 33 14 19 00-0230 EA 5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,184.02                  | 437.21                  |
| 33 14 19 00-0231 EA 5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,250.59                  | 437.21                  |
| 33 14 19 00-0232 EA 6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,348.28                  | 468.43                  |
| 33 14 19 00-0233 EA 6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,446.06                  | 499.66                  |
| 33 14 19 00-0234 EA 7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,574.97                  | 562.12                  |
| 33 14 19 00-0235 EA 1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 3,691.37                  | 349.76                  |
| 33 14 19 00-0236 EA 2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 3,777.68                  | 349.76                  |
| 33 14 19 00-0237 EA 2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 3,863.78                  | 349.76                  |
| 33 14 19 00-0238 EA 3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 3,974.86                  | 374.74                  |
| 33 14 19 00-0239 EA 3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,060.96                  | 374.74                  |
| 33 14 19 00-0240 EA 4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,178.62                  | 405.98                  |
| 33 14 19 00-0241 EA 4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,264.61                  | 405.98                  |
| 33 14 19 00-0242 EA 5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,382.03                  | 437.21                  |
| 33 14 19 00-0243 EA 5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,468.11                  | 437.21                  |
| 33 14 19 00-0244 EA 6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,585.28                  | 468.43                  |
| 33 14 19 00-0245 EA 6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant..... | 4,702.82                  | 499.66                  |
| 33 14 19 00-0246 EA 7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....     | 4,851.23                  | 562.12                  |
| <b>33 14 19 00-0247 Two Way, Standard (Traditional) Model Fire Hydrant</b> <small>(33 14 19 00-0221)</small>      |                           |                         |
| Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).                              |                           |                         |
| 33 14 19 00-0248 EA 1-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,265.59                  | 349.76                  |
| 33 14 19 00-0249 EA 2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,331.87                  | 349.76                  |
| 33 14 19 00-0250 EA 2-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,398.53                  | 349.76                  |
| 33 14 19 00-0251 EA 3" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,490.15                  | 374.74                  |
| 33 14 19 00-0252 EA 3-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,556.51                  | 374.74                  |
| 33 14 19 00-0253 EA 4" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,654.24                  | 405.98                  |
| 33 14 19 00-0254 EA 4-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,720.81                  | 405.98                  |
| 33 14 19 00-0255 EA 5" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,818.76                  | 437.21                  |
| 33 14 19 00-0256 EA 5-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,885.19                  | 437.21                  |
| 33 14 19 00-0257 EA 6" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,983.24                  | 468.43                  |
| 33 14 19 00-0258 EA 6-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 4,080.60                  | 499.66                  |
| 33 14 19 00-0259 EA 7" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 4,209.65                  | 562.12                  |
| 33 14 19 00-0260 EA 1-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,359.35                  | 349.76                  |
| 33 14 19 00-0261 EA 2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,445.47                  | 349.76                  |
| 33 14 19 00-0262 EA 2-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,531.46                  | 349.76                  |
| 33 14 19 00-0263 EA 3" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,642.76                  | 374.74                  |
| 33 14 19 00-0264 EA 3-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,728.64                  | 374.74                  |
| 33 14 19 00-0265 EA 4" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 3,846.15                  | 405.98                  |
| 33 14 19 00-0266 EA 4-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 3,932.08                  | 405.98                  |
| 33 14 19 00-0267 EA 5" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 4,049.78                  | 437.21                  |
| 33 14 19 00-0268 EA 5-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 4,135.66                  | 437.21                  |
| 33 14 19 00-0269 EA 6" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 4,253.13                  | 468.43                  |
| 33 14 19 00-0270 EA 6-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....   | 4,370.25                  | 499.66                  |
| 33 14 19 00-0271 EA 7" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....       | 4,519.13                  | 562.12                  |





MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                         |   |          |        |
|-------------------------|---|----------|--------|
| <b>33 14 19 00-0272</b> | <b>Three Way, Modern Model Fire Hydrant</b> <small>(33 14 19 00-0221)</small>   |          |        |
|                         | Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).  |          |        |
| 33 14 19 00-0273        | EA 1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 3,785.89 | 349.76 |
| 33 14 19 00-0274        | EA 2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 3,871.88 | 349.76 |
| 33 14 19 00-0275        | EA 2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 3,958.13 | 349.76 |
| 33 14 19 00-0276        | EA 3' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,069.26 | 374.74 |
| 33 14 19 00-0277        | EA 3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,155.31 | 374.74 |
| 33 14 19 00-0278        | EA 4' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,272.65 | 405.98 |
| 33 14 19 00-0279        | EA 4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,358.82 | 405.98 |
| 33 14 19 00-0280        | EA 5' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,476.17 | 437.21 |
| 33 14 19 00-0281        | EA 5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,562.25 | 437.21 |
| 33 14 19 00-0282        | EA 6' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,679.57 | 437.21 |
| 33 14 19 00-0283        | EA 6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,797.16 | 499.66 |
| 33 14 19 00-0284        | EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....  | 4,944.67 | 499.66 |
| <b>33 14 19 00-0285</b> | <b>Two Way, Modern Model Fire Hydrant</b> <small>(33 14 19 00-0221)</small>   |          |        |
|                         | Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).  |          |        |
| 33 14 19 00-0286        | EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 2,707.63 | 349.76 |
| 33 14 19 00-0287        | EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 2,773.07 | 349.76 |
| 33 14 19 00-0288        | EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 2,839.24 | 349.76 |
| 33 14 19 00-0289        | EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 2,928.89 | 374.74 |
| 33 14 19 00-0290        | EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 2,994.31 | 374.74 |
| 33 14 19 00-0291        | EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,090.97 | 405.98 |
| 33 14 19 00-0292        | EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,156.37 | 405.98 |
| 33 14 19 00-0293        | EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,253.10 | 437.21 |
| 33 14 19 00-0294        | EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,318.33 | 437.21 |
| 33 14 19 00-0295        | EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,414.99 | 468.43 |
| 33 14 19 00-0296        | EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,511.73 | 499.66 |
| 33 14 19 00-0297        | EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....  | 3,638.80 | 562.12 |
| <b>33 14 19 00-0298</b> | <b>Fire Hydrant Extension Kits</b> <small>(33 14 19 00-0221)</small>  |          |        |
| 33 14 19 00-0299        | EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....  | 572.11   | 31.23  |
| 33 14 19 00-0300        | EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 680.89   | 39.03  |
| 33 14 19 00-0301        | EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 745.14   | 46.85  |
| 33 14 19 00-0302        | EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 849.60   | 57.77  |
| 33 14 19 00-0303        | EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 1,267.18 | 60.13  |
| 33 14 19 00-0304        | EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 1,352.41 | 62.46  |
| 33 14 19 00-0305        | EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 1,374.24 | 65.58  |
| 33 14 19 00-0306        | EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 1,452.06 | 70.26  |
| 33 14 19 00-0307        | EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 1,604.84 | 84.32  |
| 33 14 19 00-0308        | EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....   | 1,700.84 | 101.49 |
| 33 14 19 00-0309        | EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....  | 636.22   | 34.98  |
| 33 14 19 00-0310        | EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 754.78   | 42.47  |
| 33 14 19 00-0311        | EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 867.32   | 51.22  |
| 33 14 19 00-0312        | EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 973.14   | 63.71  |
| 33 14 19 00-0313        | EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 1,320.25 | 66.21  |
| 33 14 19 00-0314        | EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 1,406.64 | 68.70  |
| 33 14 19 00-0315        | EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 1,467.11 | 72.45  |
| 33 14 19 00-0316        | EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 1,712.01 | 77.45  |
| 33 14 19 00-0317        | EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 1,880.83 | 92.43  |
| 33 14 19 00-0318        | EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....   | 1,984.61 | 111.17 |
| <b>33 14 19 00-0319</b> | <b>Removal And Reinstallation Of Standard Fire Hydrant</b> <small>(33 14 19 00-0221)</small>  |          |        |
|                         | Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant. |          |        |
| 33 14 19 00-0320        | EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....   | 999.31   |        |
| 33 14 19 00-0321        | EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....  | 1,457.34 |        |
| 33 14 19 00-0322        | EA Reset Fire Hydrant Upper Barrel.....   | 1,275.67 |        |
|                         | Note: Includes Safety Repair Kit  |          |        |
| <b>33 14 19 00-0323</b> | <b>Yard Hydrants</b> <small>(33 14 19)</small>  |          |        |
|                         | Note: With 3/4" hose thread outlet.   |          |        |
| 33 14 19 00-0324        | EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....  | 403.79   | 45.94  |
| 33 14 19 00-0325        | EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....  | 431.32   | 45.94  |
| 33 14 19 00-0326        | EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....  | 458.84   | 45.94  |
| 33 14 19 00-0327        | EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....  | 363.27   | 58.19  |
| 33 14 19 00-0328        | EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....  | 377.92   | 58.19  |
| 33 14 19 00-0329        | EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....  | 392.57   | 58.19  |
| <b>33 14 19 00-0330</b> | <b>Sanitary Yard Hydrants</b> <small>(33 14 19)</small>   |          |        |
|                         | Note: With 3/4" hose thread outlet.   |          |        |
| 33 14 19 00-0331        | EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....   | 1,719.22 | 95.71  |
| 33 14 19 00-0332        | EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....   | 1,805.24 | 95.71  |
| 33 14 19 00-0333        | EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....   | 1,891.25 | 95.71  |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                   | <b>33</b>    | <b>CS</b> |
| <b>Water Utilities</b>                             | <b>33 10</b> |           |
| <b>Water Utility Transmission and Distribution</b> | <b>33 14</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 14 19 00-0334</b> Flushing Hydrants <small>(33 14 19)</small>  |                           |                         |
| 33 14 19 00-0335 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth .....                                   | 903.83                    | 58.77                   |
| <b>33 14 23</b> Enclosures for Water Utility Piping and Valves <small>(33 14)</small>                                      |                           |                         |
| Note: Excludes excavation and backfill. See CSI section 22 11 19 00-0385 for Enclosures.                                   |                           |                         |
| <b>33 14 23 00-0001</b> Roadway Or Curb Valve Boxes <small>(33 14 23)</small>  |                           |                         |
| See CSI section 22 05 19 00-0000 for metering.   |                           |                         |
| <b>33 14 23 00-0002</b> Round Head, Cast Iron Service, Roadway Or Valve Boxes <small>(33 14 23 00-0001)</small>            |                           |                         |
| 33 14 23 00-0003 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....           | 281.84                    | 18.61                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0004 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....           | 326.82                    | 18.61                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0005 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....           | 328.90                    | 18.61                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0006 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....                      | 85.47                     | 9.30                    |
| 33 14 23 00-0007 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....                     | 97.38                     | 9.30                    |
| 33 14 23 00-0008 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....                     | 115.30                    | 9.30                    |
| 33 14 23 00-0009 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box .....                     | 424.03                    | 23.26                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0010 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....          | 732.87                    | 32.57                   |
| Note: Includes cover, top section, bottom section and #6 round base.   |                           |                         |
| 33 14 23 00-0011 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....          | 816.78                    | 32.57                   |
| Note: Includes cover, top section, bottom section and #6 round base.   |                           |                         |
| 33 14 23 00-0012 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....             | 440.67                    | 23.26                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0013 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....             | 460.72                    | 23.26                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0014 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....              | 445.41                    | 23.26                   |
| Note: Includes cover, top section and bottom section.  |                           |                         |
| 33 14 23 00-0015 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....                       | 161.61                    | 9.30                    |
| 33 14 23 00-0016 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....                                  | 273.90                    | 38.28                   |
| 33 14 23 00-0017 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....                                  | 283.00                    | 39.82                   |
| 33 14 23 00-0018 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....                                  | 314.94                    | 41.34                   |
| 33 14 23 00-0019 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box .....                                   | 430.30                    | 43.65                   |
| 33 14 23 00-0020 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....                                  | 518.12                    | 45.94                   |
| 33 14 23 00-0021 EA 18" Cast Iron Service Box Extension Section .....  | 120.95                    |                         |
| <b>33 14 23 00-0022</b> Plastic Roadway Grade Water Meter Box And Cover <small>(33 14 23 00-0001)</small>                  |                           |                         |
| 33 14 23 00-0023 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover .....                                       | 585.24                    | 53.60                   |
| 33 14 23 00-0024 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover .....                           | 442.69                    | 38.28                   |
| 33 14 23 00-0025 EA Cast Iron Lid For Plastic Meter Box .....  | 136.75                    |                         |
| <b>33 14 23 00-0026</b> Traffic Valve Box And Lid <small>(33 14 23 00-0001)</small>  |                           |                         |
| 33 14 23 00-0027 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....                         | 244.64                    |                         |
| 33 14 23 00-0028 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....                    | 747.48                    |                         |
| <b>33 16 Water Utility Storage Tanks</b> <small>(33 10)</small>  |                           |                         |
| <b>33 16 23</b> Ground-Level Steel Water Storage Tanks <small>(33 16)</small>  |                           |                         |
| See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.  |                           |                         |
| <b>33 19 Water Utility Metering Equipment</b> <small>(33 10)</small>   |                           |                         |
| <b>33 19 13</b> Positive Displacement Water Meters <small>(33 19)</small>  |                           |                         |
| <b>33 19 13 23</b> Nutating Disc Water Meters <small>(33 19 13)</small>  |                           |                         |
| <b>33 19 13 23-0001</b> Bronze Disk Type Water Service Meters <small>(33 19 13 23)</small>                                 |                           |                         |
| 33 19 13 23-0002 EA 5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....                         | 336.53                    | 79.63                   |
| 33 19 13 23-0003 EA 3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....                         | 421.85                    | 94.94                   |
| 33 19 13 23-0004 EA 1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....                           | 562.61                    | 108.72                  |
| 33 19 13 23-0005 EA 1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....                      | 1,084.46                  | 162.32                  |
| 33 19 13 23-0006 EA 2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....                          | 1,467.76                  | 211.32                  |
| <b>33 19 13 23-0007</b> Magnetic Driven, Positive Displacement Type Water Service Meters <small>(33 19 13 23)</small>      |                           |                         |
| 33 19 13 23-0008 EA 5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i).....  | 595.67                    | 79.63                   |
| <i>For Owner Furnished Material, Deduct</i>  |                           |                         |
|  | -515.07                   |                         |
| 33 19 13 23-0009 EA 3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....   | 679.99                    | 94.94                   |
| <i>For Owner Furnished Material, Deduct</i>  |                           |                         |
|  | -584.28                   |                         |
| 33 19 13 23-0010 EA 1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....     | 1,005.89                  | 108.72                  |
| <i>For Owner Furnished Material, Deduct</i>  |                           |                         |
|  | -896.51                   |                         |
| 33 19 13 23-0011 EA 1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)..... | 1,697.90                  | 162.32                  |
| <i>For Owner Furnished Material, Deduct</i>  |                           |                         |
|  | -1,535.00                 |                         |
| 33 19 13 23-0012 EA 2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....     | 2,104.24                  | 211.32                  |
| <i>For Owner Furnished Material, Deduct</i>  |                           |                         |
|  | -1,891.56                 |                         |

**33 Utilities****33 10 Water Utilities****33 19 Water Utility Metering Equipment**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 19 13 23-0013 EA Electronic Transmitter.....  | 477.21                    | 38.28                   |
| Note: For use with transmitting meter valve.<br>For Owner Furnished Material, Deduct                                     | -438.93                   |                         |
| <b>33 19 16 Velocity-Type Water Meters</b> (33 19)   |                           |                         |
| <b>33 19 16 23 Turbine Water Meters</b> (33 19 16)   |                           |                         |
| <b>33 19 16 23-0001 Flanged Turbine Water Service Meter</b> (33 19 16 23)  |                           |                         |
| <b>33 19 16 23-0002 Vertical Turbine Meters</b> (33 19 16 23-0001)   |                           |                         |
| 33 19 16 23-0003 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....                                    | 792.00                    | 148.03                  |
| 33 19 16 23-0004 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....  | 1,099.50                  | 187.93                  |
| 33 19 16 23-0005 EA 3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....  | 2,129.44                  | 239.67                  |
| 33 19 16 23-0006 EA 4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....  | 3,197.75                  | 375.01                  |
| 33 19 16 23-0007 EA 6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....                                      | 5,795.51                  | 507.53                  |
| <b>33 19 16 23-0008 Horizontal Turbine Meters</b> (33 19 16 23-0001)   |                           |                         |
| 33 19 16 23-0009 EA 1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....                                  | 1,196.34                  | 148.03                  |
| 33 19 16 23-0010 EA 2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....                                      | 1,676.74                  | 187.93                  |
| 33 19 16 23-0011 EA 3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....                                      | 2,360.87                  | 239.67                  |
| 33 19 16 23-0012 EA 4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....                                    | 3,503.67                  | 375.01                  |
| 33 19 16 23-0013 EA 6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....                                    | 6,910.09                  | 507.53                  |
| 33 19 16 23-0014 EA 8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....                                    | 9,195.22                  | 648.52                  |
| 33 19 16 23-0015 EA 10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....                                   | 12,704.57                 | 789.49                  |
| 33 19 16 23-0016 EA 12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....                                   | 15,685.73                 | 1,244.86                |
| <b>33 19 19 Compound Water Meters</b> (33 19)  |                           |                         |
| <b>33 19 19 00-0001 Flanged Compound Type Water Service Meter</b> (33 19 19)   |                           |                         |
| 33 19 19 00-0002 EA 2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter.....                | 3,062.66                  | 187.93                  |
| 33 19 19 00-0003 EA 3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter.....                | 3,879.78                  | 239.67                  |
| 33 19 19 00-0004 EA 4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....                | 6,387.21                  | 375.01                  |
| 33 19 19 00-0005 EA 6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter.....              | 8,915.81                  | 507.53                  |
| 33 19 19 00-0006 EA 8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter.....              | 17,837.88                 | 648.52                  |
| 33 19 19 00-0007 EA 10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....             | 30,170.79                 | 789.49                  |
| <b>33 19 23 Magnetic Water Meters</b> (33 19)  |                           |                         |
| <b>33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter</b> (33 19 23)  |                           |                         |
| 33 19 23 00-0002 EA 2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)..... | 8,728.01                  | 187.93                  |
| 33 19 23 00-0003 EA 3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)..... | 12,363.32                 | 239.67                  |
| 33 19 23 00-0004 EA 4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)..... | 14,246.63                 | 375.01                  |
| <b>33 19 26 Ultrasonic Water Meters</b> (33 19)  |                           |                         |
| <b>33 19 26 00-0001 Ultrasonic Water Service Meters (Mastermeter Octive)</b> (33 19 26)                                  |                           |                         |
| 33 19 26 00-0002 EA 3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....            | 4,514.93                  | 239.67                  |
| 33 19 26 00-0003 EA 4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....            | 5,256.73                  | 375.01                  |
| 33 19 26 00-0004 EA 6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....            | 7,712.92                  | 507.53                  |
| 33 19 26 00-0005 EA 8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....            | 11,061.39                 | 648.52                  |
| <b>33 30 Sanitary Sewerage Utilities</b> (33)  |                           |                         |
| <b>33 31 Sanitary Sewerage Piping</b> (33 30)  |                           |                         |
| <b>33 31 11 Public Sanitary Sewerage Gravity Piping</b> (33 31)  |                           |                         |
| Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill.              |                           |                         |
| <b>33 31 11 00-0001 Plastic Sewer And Drain Piping</b> (33 31 11)  |                           |                         |
| <b>33 31 11 00-0002 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe</b> (33 31 11 00-0001)                     |                           |                         |
| 33 31 11 00-0003 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                | 10.55                     | 4.02                    |
| 33 31 11 00-0004 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                    | 12.90                     | 4.74                    |
| 33 31 11 00-0005 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                    | 18.49                     | 5.75                    |
| 33 31 11 00-0006 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                    | 23.49                     | 6.71                    |
| 33 31 11 00-0007 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                    | 33.18                     | 7.80                    |
| 33 31 11 00-0008 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                    | 45.53                     | 9.08                    |
| 33 31 11 00-0009 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                   | 64.49                     | 9.40                    |
| 33 31 11 00-0010 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                   | 86.67                     | 9.72                    |
| <b>33 31 11 00-0011 Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe</b> (33 31 11 00-0001)                      |                           |                         |
| Note: D-2729 PVC pipe.   |                           |                         |
| 33 31 11 00-0012 LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                     | 14.15                     | 5.75                    |
| 33 31 11 00-0013 LF 4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                                     | 16.73                     | 6.71                    |



|  | MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-------------------------|-----|-----|--|------------------------|----------------------|
|  | 33 31 11 00-0014        | LF  |     | 6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....                         | 22.12                  | 7.80                 |
|  | <b>33 31 11 00-0015</b> |     |     | <b>Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)</b>              |                        |                      |
|  | <b>33 31 11 00-0016</b> |     |     | <b>1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>            |                        |                      |
|  | 33 31 11 00-0017        | EA  |     | 1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 30.54                  | 16.23                |
|  | 33 31 11 00-0018        | EA  |     | 2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 39.28                  | 20.98                |
|  | 33 31 11 00-0019        | EA  |     | 3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 66.79                  | 28.18                |
|  | 33 31 11 00-0020        | EA  |     | 4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 100.68                 | 32.57                |
|  | 33 31 11 00-0021        | EA  |     | 6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 379.23                 | 42.33                |
|  | 33 31 11 00-0022        | EA  |     | 8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 626.14                 | 56.97                |
|  | 33 31 11 00-0023        | EA  |     | 10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 826.78                 | 75.88                |
|  | <b>33 31 11 00-0024</b> |     |     | <b>1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>            |                        |                      |
|  | 33 31 11 00-0025        | EA  |     | 1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 31.97                  | 16.23                |
|  | 33 31 11 00-0026        | EA  |     | 2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 39.16                  | 20.98                |
|  | 33 31 11 00-0027        | EA  |     | 3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 64.64                  | 28.18                |
|  | 33 31 11 00-0028        | EA  |     | 4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 90.18                  | 32.57                |
|  | 33 31 11 00-0029        | EA  |     | 6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 352.52                 | 42.33                |
|  | 33 31 11 00-0030        | EA  |     | 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                               | 564.04                 | 56.97                |
|  | 33 31 11 00-0031        | EA  |     | 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 644.13                 | 75.88                |
|  | 33 31 11 00-0032        | EA  |     | 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 954.47                 | 101.05               |
|  | <b>33 31 11 00-0033</b> |     |     | <b>Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b> |                        |                      |
|  | 33 31 11 00-0034        | EA  |     | 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                | 47.95                  | 15.98                |
|  | 33 31 11 00-0035        | EA  |     | 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                    | 49.30                  | 20.98                |
|  | 33 31 11 00-0036        | EA  |     | 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                    | 92.55                  | 28.18                |
|  | 33 31 11 00-0037        | EA  |     | 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                    | 147.91                 | 32.57                |
|  | 33 31 11 00-0038        | EA  |     | 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                    | 288.01                 | 42.33                |
|  | 33 31 11 00-0039        | EA  |     | 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                    | 506.25                 | 56.97                |
|  | 33 31 11 00-0040        | EA  |     | 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                   | 824.63                 | 75.88                |
|  | 33 31 11 00-0041        | EA  |     | 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                   | 1,246.58               | 101.05               |
|  | <b>33 31 11 00-0042</b> |     |     | <b>1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>           |                        |                      |
|  | 33 31 11 00-0043        | EA  |     | 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                          | 35.03                  | 16.23                |
|  | 33 31 11 00-0044        | EA  |     | 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 42.27                  | 20.98                |
|  | 33 31 11 00-0045        | EA  |     | 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 73.55                  | 28.18                |
|  | 33 31 11 00-0046        | EA  |     | 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 106.74                 | 32.57                |
|  | 33 31 11 00-0047        | EA  |     | 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 468.10                 | 42.33                |
|  | 33 31 11 00-0048        | EA  |     | 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                              | 755.51                 | 56.97                |
|  | 33 31 11 00-0049        | EA  |     | 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                             | 856.24                 | 75.88                |
|  | 33 31 11 00-0050        | EA  |     | 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....                             | 883.77                 | 101.05               |
|  | <b>33 31 11 00-0051</b> |     |     | <b>Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>             |                        |                      |
|  | 33 31 11 00-0052        | EA  |     | 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                       | 40.22                  | 18.51                |
|  | 33 31 11 00-0053        | EA  |     | 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                       | 72.79                  | 22.10                |
|  | 33 31 11 00-0054        | EA  |     | 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 69.74                  | 24.37                |
|  | 33 31 11 00-0055        | EA  |     | 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 105.60                 | 26.64                |
|  | 33 31 11 00-0056        | EA  |     | 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 113.96                 | 30.23                |
|  | 33 31 11 00-0057        | EA  |     | 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 334.42                 | 37.41                |
|  | 33 31 11 00-0058        | EA  |     | 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 702.63                 | 49.60                |
|  | 33 31 11 00-0059        | EA  |     | 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                          | 232.72                 | 54.17                |
|  | 33 31 11 00-0060        | EA  |     | 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                          | 324.86                 | 59.08                |
|  | 33 31 11 00-0061        | EA  |     | 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                          | 302.24                 | 66.35                |
|  | 33 31 11 00-0062        | EA  |     | 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                          | 735.97                 | 71.72                |
|  | 33 31 11 00-0063        | EA  |     | 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                          | 778.25                 | 78.99                |
|  | 33 31 11 00-0064        | EA  |     | 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....                         | 825.47                 | 88.46                |
|  | <b>33 31 11 00-0065</b> |     |     | <b>Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>        |                        |                      |
|  | 33 31 11 00-0066        | EA  |     | 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....                       | 47.83                  | 24.52                |
|  | 33 31 11 00-0067        | EA  |     | 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 63.35                  | 31.72                |
|  | 33 31 11 00-0068        | EA  |     | 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 105.03                 | 41.84                |
|  | 33 31 11 00-0069        | EA  |     | 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 158.39                 | 51.97                |
|  | 33 31 11 00-0070        | EA  |     | 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 553.64                 | 56.97                |
|  | 33 31 11 00-0071        | EA  |     | 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....                           | 719.18                 | 75.88                |
|  | <b>33 31 11 00-0072</b> |     |     | <b>Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>                 |                        |                      |
|  | 33 31 11 00-0073        | EA  |     | 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....                                | 58.92                  | 24.52                |
|  | 33 31 11 00-0074        | EA  |     | 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....                                    | 69.79                  | 31.72                |
|  | 33 31 11 00-0075        | EA  |     | 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....                                    | 113.27                 | 41.84                |
|  | 33 31 11 00-0076        | EA  |     | 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....                                    | 171.87                 | 51.97                |
|  | 33 31 11 00-0077        | EA  |     | 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....                                    | 503.07                 | 56.97                |

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 31 11 00-0078 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....  | 623.12                    | 75.88                   |
| 33 31 11 00-0079 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 820.06                    | 101.26                  |
| 33 31 11 00-0080 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 1,288.00                  | 135.12                  |
| <b>33 31 11 00-0081 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>                        |                           |                         |
| 33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                     | 76.34                     | 24.52                   |
| 33 31 11 00-0083 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                             | 86.73                     | 31.72                   |
| 33 31 11 00-0084 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                             | 101.82                    | 41.84                   |
| 33 31 11 00-0085 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                             | 153.38                    | 51.97                   |
| 33 31 11 00-0086 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                             | 166.02                    | 51.97                   |
| <b>33 31 11 00-0087 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>                          |                           |                         |
| 33 31 11 00-0088 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                                     | 94.72                     | 31.72                   |
| 33 31 11 00-0089 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 123.52                    | 41.84                   |
| 33 31 11 00-0090 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 241.49                    | 56.48                   |
| 33 31 11 00-0091 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 420.44                    | 68.31                   |
| 33 31 11 00-0092 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                  | 118.28                    | 41.84                   |
| 33 31 11 00-0093 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                          | 201.42                    | 56.48                   |
| 33 31 11 00-0094 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....                          | 354.25                    | 68.31                   |
| <b>33 31 11 00-0095 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>        |                           |                         |
| 33 31 11 00-0096 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                   | 72.76                     | 24.52                   |
| 33 31 11 00-0097 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                       | 91.38                     | 31.72                   |
| 33 31 11 00-0098 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                       | 178.14                    | 41.84                   |
| 33 31 11 00-0099 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                       | 317.37                    | 51.97                   |
| 33 31 11 00-0100 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....         | 138.37                    | 31.72                   |
| 33 31 11 00-0101 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....         | 220.70                    | 41.84                   |
| 33 31 11 00-0102 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....             | 161.50                    | 41.84                   |
| 33 31 11 00-0103 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....             | 297.41                    | 51.97                   |
| 33 31 11 00-0104 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....             | 315.66                    | 51.97                   |
| <b>33 31 11 00-0105 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b> |                           |                         |
| 33 31 11 00-0106 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....            | 105.45                    | 31.72                   |
| 33 31 11 00-0107 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                | 124.72                    | 41.84                   |
| 33 31 11 00-0108 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                | 192.23                    | 56.48                   |
| 33 31 11 00-0109 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                | 669.22                    | 68.31                   |
| 33 31 11 00-0110 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....                | 2,170.98                  | 75.63                   |
| <b>33 31 11 00-0111 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>              |                           |                         |
| 33 31 11 00-0112 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....                            | 536.67                    | 123.89                  |
| 33 31 11 00-0113 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....                            | 1,259.05                  | 159.84                  |
| 33 31 11 00-0114 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....                            | 1,607.06                  | 225.25                  |
| 33 31 11 00-0115 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....                           | 2,226.82                  | 362.32                  |
| <b>33 31 11 00-0116 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>                            |                           |                         |
| 33 31 11 00-0117 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....                                       | 29.81                     | 16.23                   |
| 33 31 11 00-0118 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 37.31                     | 20.86                   |
| 33 31 11 00-0119 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 57.51                     | 27.94                   |
| 33 31 11 00-0120 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 74.35                     | 32.57                   |
| 33 31 11 00-0121 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 204.54                    | 42.33                   |
| 33 31 11 00-0122 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....   | 492.67                    | 56.97                   |
| 33 31 11 00-0123 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....  | 744.98                    | 75.88                   |
| 33 31 11 00-0124 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....  | 1,226.85                  | 101.05                  |
| <b>33 31 11 00-0125 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>                             |                           |                         |
| 33 31 11 00-0126 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting .....                    | 173.98                    | 98.97                   |
| 33 31 11 00-0127 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting .....   | 121.51                    | 75.29                   |
| 33 31 11 00-0128 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting .....   | 125.24                    | 75.29                   |
| 33 31 11 00-0129 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting .....   | 135.14                    | 75.29                   |
| 33 31 11 00-0130 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....                          | 176.70                    | 98.97                   |
| 33 31 11 00-0131 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....                            | 168.77                    | 98.97                   |
| 33 31 11 00-0132 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....                      | 155.75                    | 98.97                   |
| 33 31 11 00-0133 EA 4" Drain Grate, Drain And Sewer Fitting .....   | 85.99                     | 50.89                   |
| <b>33 31 11 00-0134 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>                                 |                           |                         |
| 33 31 11 00-0135 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....  | 48.88                     | 17.44                   |
| 33 31 11 00-0136 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....  | 84.04                     | 21.72                   |
| 33 31 11 00-0137 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....  | 165.21                    | 28.06                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|---|-------------------------|
| <b>33 31 11 00-0138</b>  | <b>Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b> |                         |
| 33 31 11 00-0139 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....    | 28.87   | 16.23                   |
| 33 31 11 00-0140 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....        | 37.64   | 20.98                   |
| 33 31 11 00-0141 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....        | 57.05   | 28.18                   |
| 33 31 11 00-0142 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....        | 77.10   | 32.57                   |
| 33 31 11 00-0143 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....        | 138.24  | 42.33                   |
| 33 31 11 00-0144 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....        | 566.43  | 56.97                   |
| <b>33 31 11 00-0145</b>  | <b>Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001)</b>           |                         |
| Note: ASTM 3034.   |   |                         |
| 33 31 11 00-0146 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                  | 16.38   | 6.71                    |
| 33 31 11 00-0147 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                  | 21.25   | 7.80                    |
| 33 31 11 00-0148 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                  | 27.73   | 9.08                    |
| 33 31 11 00-0149 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 33.18   | 9.40                    |
| 33 31 11 00-0150 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 39.71   | 9.72                    |
| 33 31 11 00-0151 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 50.53   | 10.07                   |
| 33 31 11 00-0152 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 62.89   | 10.43                   |
| 33 31 11 00-0153 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 80.60   | 11.34                   |
| 33 31 11 00-0154 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 97.02   | 12.23                   |
| 33 31 11 00-0155 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....                 | 120.23  | 14.34                   |
| <b>33 31 11 00-0156</b>  | <b>Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001)</b>       |                         |
| Note: ASTM 3034.   |   |                         |
| 33 31 11 00-0157 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....              | 19.61   | 6.71                    |
| 33 31 11 00-0158 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....              | 28.03   | 7.80                    |
| 33 31 11 00-0159 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....              | 39.85   | 9.08                    |
| <b>33 31 11 00-0160</b>  | <b>Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0001)</b>       |                         |
| Note: ASTM 3034.   |   |                         |
| <b>33 31 11 00-0161</b>  | <b>1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>     |                         |
| 33 31 11 00-0161 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 89.83   | 28.36                   |
| 33 31 11 00-0163 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 133.23  | 32.98                   |
| 33 31 11 00-0164 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 279.13  | 37.37                   |
| 33 31 11 00-0165 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 801.38  | 43.97                   |
| 33 31 11 00-0166 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 1,035.57  | 56.06                   |
| <b>33 31 11 00-0167</b>  | <b>1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>     |                         |
| 33 31 11 00-0168 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 81.08   | 28.36                   |
| 33 31 11 00-0169 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 123.58  | 32.98                   |
| 33 31 11 00-0170 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 254.74  | 37.37                   |
| 33 31 11 00-0171 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 571.80  | 43.97                   |
| 33 31 11 00-0172 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 817.28  | 56.06                   |
| 33 31 11 00-0173 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 1,752.74  | 79.15                   |
| 33 31 11 00-0174 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 2,781.11  | 112.13                  |
| 33 31 11 00-0175 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 4,640.90  | 148.40                  |
| 33 31 11 00-0176 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 6,328.02  | 197.88                  |
| <b>33 31 11 00-0177</b>  | <b>Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b> |                         |
| 33 31 11 00-0178 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....        | 135.97  | 42.55                   |
| 33 31 11 00-0179 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....   | 219.44  | 47.15                   |
| 33 31 11 00-0180 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....        | 246.68  | 49.46                   |
| 33 31 11 00-0181 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....   | 272.38  | 51.77                   |
| 33 31 11 00-0182 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....   | 312.06  | 54.08                   |
| 33 31 11 00-0183 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....        | 598.94  | 56.39                   |
| 33 31 11 00-0184 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....  | 767.51  | 57.71                   |
| 33 31 11 00-0185 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....  | 870.02  | 60.47                   |
| 33 31 11 00-0186 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....  | 1,285.41  | 62.77                   |
| 33 31 11 00-0187 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....       | 1,675.79  | 65.96                   |
| 33 31 11 00-0188 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....  | 944.39  | 70.25                   |
| 33 31 11 00-0189 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....  | 1,002.62  | 72.56                   |
| 33 31 11 00-0190 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....  | 1,431.43  | 74.87                   |
| 33 31 11 00-0191 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)..... | 2,065.52  | 78.05                   |
| 33 31 11 00-0192 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....       | 2,327.80  | 84.09                   |
| <b>33 31 11 00-0193</b>  | <b>Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>          |                         |
| 33 31 11 00-0194 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....                  | 129.19  | 42.55                   |
| 33 31 11 00-0195 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 196.82  | 47.15                   |
| 33 31 11 00-0196 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....                  | 216.31  | 49.46                   |
| 33 31 11 00-0197 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 262.68  | 51.77                   |
| 33 31 11 00-0198 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....             | 300.50  | 54.08                   |
| 33 31 11 00-0199 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....                  | 460.74  | 56.39                   |
| 33 31 11 00-0200 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....            | 701.89  | 58.16                   |

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 31 11 00-0201 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 715.95                    | 60.47                   |
| 33 31 11 00-0202 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 1,077.97                  | 62.77                   |
| 33 31 11 00-0203 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 1,192.90                  | 65.96                   |
| 33 31 11 00-0204 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 889.63                    | 70.25                   |
| 33 31 11 00-0205 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 917.57                    | 72.56                   |
| 33 31 11 00-0206 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 1,314.85                  | 74.87                   |
| 33 31 11 00-0207 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 1,584.69                  | 78.05                   |
| 33 31 11 00-0208 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 1,654.54                  | 84.09                   |
| 33 31 11 00-0209 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 2,039.11                  | 101.14                  |
| 33 31 11 00-0210 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 2,262.43                  | 107.18                  |
| 33 31 11 00-0211 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 2,829.05                  | 118.72                  |
| <b>33 31 11 00-0212 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>   |                           |                         |
| 33 31 11 00-0213 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 89.05                     | 28.36                   |
| 33 31 11 00-0214 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 138.38                    | 32.98                   |
| 33 31 11 00-0215 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 204.35                    | 37.59                   |
| 33 31 11 00-0216 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 387.77                    | 43.97                   |
| 33 31 11 00-0217 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 550.36                    | 56.06                   |
| 33 31 11 00-0218 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 1,077.25                  | 79.15                   |
| 33 31 11 00-0219 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 2,027.12                  | 112.13                  |
| 33 31 11 00-0220 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 3,383.54                  | 148.40                  |
| 33 31 11 00-0221 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 4,898.55                  | 197.88                  |
| <b>33 31 11 00-0222 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>   |                           |                         |
| 33 31 11 00-0223 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 171.03                    | 30.67                   |
| 33 31 11 00-0224 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 245.34                    | 32.98                   |
| 33 31 11 00-0225 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 258.71                    | 35.29                   |
| 33 31 11 00-0226 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 583.82                    | 38.47                   |
| 33 31 11 00-0227 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 671.08                    | 40.78                   |
| 33 31 11 00-0228 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 749.85                    | 44.52                   |
| 33 31 11 00-0229 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....   | 860.73                    | 46.83                   |
| 33 31 11 00-0230 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 987.01                    | 50.02                   |
| 33 31 11 00-0231 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....  | 1,486.21                  | 67.61                   |
| <b>33 31 11 00-0232 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>                                 |                           |                         |
| 33 31 11 00-0233 EA 6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 141.32                    |                         |
| 33 31 11 00-0234 EA 8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 186.78                    |                         |
| 33 31 11 00-0235 EA 8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 190.97                    |                         |
| 33 31 11 00-0236 EA 10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 316.55                    |                         |
| 33 31 11 00-0237 EA 10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 334.09                    |                         |
| 33 31 11 00-0238 EA 10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 635.76                    |                         |
| 33 31 11 00-0239 EA 12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 360.48                    |                         |
| 33 31 11 00-0240 EA 12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 393.35                    |                         |
| 33 31 11 00-0241 EA 12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 880.41                    |                         |
| 33 31 11 00-0242 EA 12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 1,038.69                  |                         |
| 33 31 11 00-0243 EA 15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 413.31                    |                         |
| 33 31 11 00-0244 EA 15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 442.00                    |                         |
| <b>33 31 11 00-0245 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>                                 |                           |                         |
| 33 31 11 00-0246 EA 6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 151.14                    |                         |
| 33 31 11 00-0247 EA 8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 186.78                    |                         |
| 33 31 11 00-0248 EA 8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 204.34                    |                         |
| 33 31 11 00-0249 EA 10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 290.54                    |                         |
| 33 31 11 00-0250 EA 10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 331.98                    |                         |
| 33 31 11 00-0251 EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 504.83                    |                         |
| 33 31 11 00-0252 EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 358.39                    |                         |
| 33 31 11 00-0253 EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 391.37                    |                         |
| 33 31 11 00-0254 EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 587.22                    |                         |
| 33 31 11 00-0255 EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 715.05                    |                         |
| 33 31 11 00-0256 EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 412.02                    |                         |
| 33 31 11 00-0257 EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 432.28                    |                         |
| 33 31 11 00-0258 EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....   | 721.87                    |                         |
| 33 31 11 00-0259 EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 799.01                    |                         |
| 33 31 11 00-0260 EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....  | 1,130.54                  |                         |
| <b>33 31 11 00-0261 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings (33 31 11 00-0001)</b><br>Note: ASTM F949. |                           |                         |
| <b>33 31 11 00-0262 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0261)</b>                                  |                           |                         |
| 33 31 11 00-0263 LF 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe .....  | 17.74                     | 6.71                    |
| 33 31 11 00-0264 LF 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe .....  | 26.62                     | 7.80                    |
| 33 31 11 00-0265 LF 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe .....  | 34.66                     | 9.08                    |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 31 11 00-0266 LF 10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 42.56                     | 9.40                    |
| 33 31 11 00-0267 LF 12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 45.29                     | 9.72                    |
| 33 31 11 00-0268 LF 15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 54.80                     | 10.07                   |
| 33 31 11 00-0269 LF 18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 72.55                     | 10.43                   |
| 33 31 11 00-0270 LF 21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 85.60                     | 11.34                   |
| 33 31 11 00-0271 LF 24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 106.78                    | 12.23                   |
| 33 31 11 00-0272 LF 30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....                     | 154.54                    | 16.45                   |
| <b>33 31 11 00-0273 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0261)</b>  |                           |                         |
| 33 31 11 00-0274 EA 4" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                 | 88.00                     |                         |
| 33 31 11 00-0275 EA 6" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                 | 121.49                    |                         |
| 33 31 11 00-0276 EA 8" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                 | 170.63                    |                         |
| 33 31 11 00-0277 EA 10" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 296.30                    |                         |
| 33 31 11 00-0278 EA 12" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 316.97                    |                         |
| 33 31 11 00-0279 EA 15" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 534.78                    |                         |
| 33 31 11 00-0280 EA 18" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 852.48                    |                         |
| 33 31 11 00-0281 EA 21" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 1,223.37                  |                         |
| 33 31 11 00-0282 EA 24" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 1,594.14                  |                         |
| 33 31 11 00-0283 EA 30" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 2,107.72                  |                         |
| <b>33 31 11 00-0284 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0261)</b>  |                           |                         |
| 33 31 11 00-0285 EA 4" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                 | 81.50                     |                         |
| 33 31 11 00-0286 EA 6" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                 | 111.86                    |                         |
| 33 31 11 00-0287 EA 8" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                 | 156.61                    |                         |
| 33 31 11 00-0288 EA 10" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 269.96                    |                         |
| 33 31 11 00-0289 EA 12" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 289.38                    |                         |
| 33 31 11 00-0290 EA 15" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 486.05                    |                         |
| 33 31 11 00-0291 EA 18" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 773.03                    |                         |
| 33 31 11 00-0292 EA 21" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 1,105.44                  |                         |
| 33 31 11 00-0293 EA 24" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 1,437.92                  |                         |
| 33 31 11 00-0294 EA 30" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 1,899.27                  |                         |
| <b>33 31 11 00-0295 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0261)</b> |                           |                         |
| 33 31 11 00-0296 EA 4" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 71.74                     |                         |
| 33 31 11 00-0297 EA 6" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 91.53                     |                         |
| 33 31 11 00-0298 EA 8" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                | 146.23                    |                         |
| 33 31 11 00-0299 EA 10" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 185.50                    |                         |
| 33 31 11 00-0300 EA 12" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 260.10                    |                         |
| 33 31 11 00-0301 EA 15" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 434.26                    |                         |
| 33 31 11 00-0302 EA 18" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 636.84                    |                         |
| 33 31 11 00-0303 EA 21" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 984.77                    |                         |
| 33 31 11 00-0304 EA 24" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 1,332.70                  |                         |
| 33 31 11 00-0305 EA 30" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....               | 1,894.27                  |                         |
| <b>33 31 11 00-0306 Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0261)</b>       |                           |                         |
| 33 31 11 00-0307 EA 4" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                      | 137.74                    |                         |
| 33 31 11 00-0308 EA 6" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                      | 180.63                    |                         |
| 33 31 11 00-0309 EA 8" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                      | 330.90                    |                         |
| 33 31 11 00-0310 EA 10" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 539.23                    |                         |
| 33 31 11 00-0311 EA 12" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 907.83                    |                         |
| 33 31 11 00-0312 EA 15" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 1,299.60                  |                         |
| 33 31 11 00-0313 EA 18" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 1,889.89                  |                         |
| 33 31 11 00-0314 EA 21" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 2,178.45                  |                         |
| 33 31 11 00-0315 EA 24" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 2,466.93                  |                         |
| 33 31 11 00-0316 EA 30" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 4,516.13                  |                         |
| <b>33 31 11 00-0317 Tees, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0261)</b>      |                           |                         |
| 33 31 11 00-0318 EA 4" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                      | 124.41                    |                         |
| 33 31 11 00-0319 EA 6" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                      | 162.36                    |                         |
| 33 31 11 00-0320 EA 8" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                      | 293.56                    |                         |
| 33 31 11 00-0321 EA 10" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 475.41                    |                         |
| 33 31 11 00-0322 EA 12" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 795.71                    |                         |
| 33 31 11 00-0323 EA 15" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 1,137.76                  |                         |
| 33 31 11 00-0324 EA 18" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 1,652.92                  |                         |
| 33 31 11 00-0325 EA 21" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 1,903.61                  |                         |
| 33 31 11 00-0326 EA 24" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 2,154.25                  |                         |
| 33 31 11 00-0327 EA 30" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....                     | 3,928.66                  |                         |
| <b>33 31 11 00-0328 Couplings And Plug Fittings (33 31 11)</b>  |                           |                         |



**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| 33 31 11 00-0329  |    | Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)<br>Flexible Pipe Couplings (33 31 11 00-0328) |              |
|---|----|--|--------------|
| Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps. |    |  |              |
| 33 31 11 00-0330  | EA | 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)                        | 24.82 9.28   |
| 33 31 11 00-0331  | EA | 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)                             | 27.22 10.82  |
| 33 31 11 00-0332  | EA | 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)                             | 31.23 12.37  |
| 33 31 11 00-0333  | EA | 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)                             | 35.17 13.15  |
| 33 31 11 00-0334  | EA | 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)                             | 42.29 13.92  |
| 33 31 11 00-0335  | EA | 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)                             | 49.45 15.46  |
| 33 31 11 00-0336  | EA | 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)                             | 61.62 17.01  |
| 33 31 11 00-0337  | EA | 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)                          | 74.94 17.79  |
| 33 31 11 00-0338  | EA | 12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)                          | 119.54 18.56 |
| 33 31 11 00-0339  | EA | 15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)                          | 160.45 20.11 |
| 33 31 11 00-0340  | EA | 18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)                          | 302.41 20.87 |
| 33 31 11 00-0341  | EA | 21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)                          | 350.43 22.04 |
| 33 31 11 00-0342  | EA | 24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)                          | 387.71 23.20 |
| 33 31 11 00-0343  | EA | 27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)                          | 463.54 24.75 |

| 33 31 11 00-0344 |    | Cast Iron Service Saddles With U Bolt (33 31 11)                      |        |
|------------------|----|---|--------|
| 33 31 11 00-0345 | EA | 2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt     | 133.64 |
| 33 31 11 00-0346 | EA | 3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt | 134.27 |
| 33 31 11 00-0347 | EA | 3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt     | 147.94 |
| 33 31 11 00-0348 | EA | 4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt | 142.88 |
| 33 31 11 00-0349 | EA | 4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt        | 160.88 |
| 33 31 11 00-0350 | EA | 4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt        | 180.46 |
| 33 31 11 00-0351 | EA | 4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt        | 213.57 |
| 33 31 11 00-0352 | EA | 6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt        | 180.07 |
| 33 31 11 00-0353 | EA | 6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt        | 196.80 |
| 33 31 11 00-0354 | EA | 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt        | 227.26 |
| 33 31 11 00-0355 | EA | 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt  | 146.45 |
| 33 31 11 00-0356 | EA | 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt      | 160.12 |
| 33 31 11 00-0357 | EA | 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt         | 188.81 |
| 33 31 11 00-0358 | EA | 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt         | 223.82 |
| 33 31 11 00-0359 | EA | 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt         | 240.04 |

| 33 31 11 00-0360 |    | Manhole Inside Bowl Drop (33 31 11)  |        |
|------------------|----|--|--------|
| 33 31 11 00-0361 | EA | Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)     | 345.00 |
| 33 31 11 00-0362 | EA | Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)     | 361.25 |
| 33 31 11 00-0363 | EA | Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)     | 371.16 |
| 33 31 11 00-0364 | EA | Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)     | 383.53 |
| 33 31 11 00-0365 | EA | Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8R96)     | 399.23 |
| 33 31 11 00-0366 | EA | Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8R96)     | 427.33 |
| 33 31 11 00-0367 | EA | Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96)   | 445.95 |
| 33 31 11 00-0368 | EA | Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96)   | 459.99 |
| 33 31 11 00-0369 | EA | Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60) | 785.85 |
| 33 31 11 00-0370 | EA | Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96) | 806.93 |

**33 32 Sanitary Sewerage Equipment (33 30)**

| 33 32 16  |    | Packaged Wastewater Grinder Pump Assemblies (33 32)  |                   |
|---|----|--|-------------------|
| 33 32 16 00-0001  |    | Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)   |                   |
| 33 32 16 00-0002  | EA | 2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge<br>Note: Zoeller 840 series.      | 2,404.36 459.69   |
| 33 32 16 00-0003  | EA | 2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge<br>Note: Zoeller 840 series. | 2,373.66 459.69   |
| 33 32 16 00-0004  | EA | Simplex Control Panel With Auto Reversing Switch<br>Note: For Zoeller 840 series grinder pump.                                   | 1,103.48 153.18   |
| 33 32 16 00-0005  | EA | Duplex Control Panel With Auto Reversing Switch<br>Note: For Zoeller 840 series grinder pump.                                    | 1,673.97 153.18   |
| 33 32 16 00-0006  | EA | Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74)   | 13,270.90         |
| 33 32 16 00-0007  |    | Submersible Grinder Pumps (33 32 16)   |                   |
| Note: Includes 50' of cord with pumps unless otherwise noted. |    |  |                   |
| 33 32 16 00-0008  | EA | 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof  | 4,080.05 834.99   |
| 33 32 16 00-0009  | EA | 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof  | 6,010.18 974.15   |
| 33 32 16 00-0010  | EA | 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof  | 7,379.20 1,252.48 |

**33 34 Onsite Wastewater Disposal (33 30)**

Note: Excludes distribution field piping, trenching or excavation.

| 33 34 13    |  | Septic Tanks (33 34)             |  |
|-------------|--|----------------------------------|--|
| 33 34 13 13 |  | Concrete Septic Tanks (33 34 13) |  |



|                                    |              |           |
|------------------------------------|--------------|-----------|
| <b>Utilities</b>                   | <b>33</b>    | <b>CS</b> |
| <b>Sanitary Sewerage Utilities</b> | <b>33 30</b> |           |
| <b>Onsite Wastewater Disposal</b>  | <b>33 34</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>33 34 13 13-0001 Precast Concrete Septic Tank</b> <small>(33 34 13 13)</small>                               |                           |                         |
| <i>Note: Includes external coating.</i>   |                           |                         |
| 33 34 13 13-0002 EA 1,000 Gallon Precast Septic Tank .....  | 4,269.95                  | 834.99                  |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-811.13</i>            |                         |
| 33 34 13 13-0003 EA 1,250 Gallon Precast Septic Tank .....  | 5,124.95                  | 921.69                  |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-998.34</i>            |                         |
| 33 34 13 13-0004 EA 1,500 Gallon Precast Septic Tank .....  | 5,947.28                  | 1,008.26                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-1,177.35</i>          |                         |
| 33 34 13 13-0005 EA 2,000 Gallon Precast Septic Tank .....  | 7,617.56                  | 1,095.92                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-1,568.98</i>          |                         |
| 33 34 13 13-0006 EA 2,500 Gallon Precast Septic Tank .....  | 9,093.33                  | 1,513.42                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-1,810.41</i>          |                         |
| 33 34 13 13-0007 EA 4,000 Gallon Precast Septic Tank .....  | 24,025.13                 | 2,087.48                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-5,366.12</i>          |                         |
| 33 34 13 13-0008 EA 5,000 Gallon Precast Septic Tank .....  | 43,632.70                 | 3,131.22                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-9,950.67</i>          |                         |
| 33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank .....  | 48,991.51                 | 4,383.70                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-10,914.21</i>         |                         |
| 33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank .....   | 60,064.06                 | 5,244.86                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-13,415.62</i>         |                         |
| 33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank .....   | 71,007.15                 | 6,497.35                |
| <i>For Non-Traffic Rated, Deduct</i>  | <i>-15,751.29</i>         |                         |
| <b>33 34 13 23 Fiberglass Septic Tank</b> <small>(33 34 13)</small>   |                           |                         |
| <b>33 34 13 23-0001 Fiberglass Septic Tank</b> <small>(33 34 13 23)</small>                                     |                           |                         |
| 33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank .....   | 4,908.77                  | 626.24                  |
| 33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank .....   | 5,784.22                  | 834.99                  |
| 33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank .....   | 6,650.13                  | 756.78                  |
| 33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank .....   | 11,101.15                 | 819.26                  |
| 33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank .....   | 13,941.47                 | 1,135.59                |
| 33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank .....   | 22,098.03                 | 1,565.60                |
| 33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank .....   | 32,799.04                 | 2,348.42                |
| 33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank .....   | 45,030.97                 | 3,287.78                |
| 33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank .....  | 55,256.32                 | 3,929.61                |
| <b>33 34 13 33 Polyethylene Septic Tank</b> <small>(33 34 13)</small>   |                           |                         |
| <b>33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank</b> <small>(33 34 13 33)</small>               |                           |                         |
| 33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank .....   | 1,419.66                  | 281.96                  |
| 33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank .....   | 2,146.46                  | 317.21                  |
| 33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....   | 2,966.48                  | 387.70                  |
| 33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank ..... | 3,054.62                  | 422.94                  |
| 33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank ..... | 3,529.00                  | 458.19                  |
| 33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank ..... | 4,215.41                  | 493.44                  |
| 33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....   | 2,974.24                  | 352.45                  |
| 33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank ..... | 3,256.57                  | 422.94                  |
| 33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank ..... | 3,816.77                  | 458.19                  |
| 33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank ..... | 4,467.84                  | 493.44                  |
| <b>33 34 51 Drainage Field System</b> <small>(33 34)</small>  |                           |                         |
| <b>33 34 51 00-0001 Leaching Pit - Precast Concrete</b> <small>(33 34 51)</small>                               |                           |                         |
| <i>Note: Includes external coating.</i>   |                           |                         |
| 33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit .....                                   | 1,225.04                  | 122.47                  |
| 33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit .....                                   | 1,737.90                  | 173.96                  |
| 33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit .....                                   | 2,314.76                  | 208.75                  |
| 33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit .....                                   | 3,759.97                  | 347.91                  |
| 33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit .....                                  | 5,508.85                  | 487.08                  |
| <b>33 34 53 Distribution Chambers</b> <small>(33 34)</small>  |                           |                         |
| <b>33 34 53 13 Drainage Field Concrete Distribution Chambers</b> <small>(33 34 53)</small>                      |                           |                         |
| <b>33 34 53 13-0001 Concrete Distribution Boxes</b> <small>(33 34 53 13)</small>                                |                           |                         |
| <i>Note: Includes internal and external coating.</i>  |                           |                         |
| 33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box .....  | 390.95                    | 93.25                   |
| 33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box .....  | 456.01                    | 111.89                  |
| 33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box .....  | 778.56                    | 130.54                  |
| 33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box .....   | 1,527.96                  | 223.78                  |
| <b>33 34 53 13-0006 Leaching Field Chambers - Precast Concrete</b> <small>(33 34 53 13)</small>                 |                           |                         |
| 33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4" .....                                   | 1,402.66                  | 90.04                   |
| 33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6" .....                                 | 1,696.12                  | 122.78                  |
| <b>33 34 56 Drainage Field Dosing Chambers</b> <small>(33 34)</small>   |                           |                         |

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 34 56 00-0001 Dosing Siphon</b> <small>(33 34 56)</small>  |                           |                         |
| 33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....   | 5,988.05                  |                         |
| 33 34 56 00-0003 EA Solar Power Control For Dosing Siphon.....   | 4,102.54                  |                         |
| 33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon.....  | 3,943.06                  |                         |
| <br>   |                           |                         |
| <b>33 40 Stormwater Utilities</b> <small>(33)</small>  |                           |                         |
| <b>33 41 Subdrainage</b> <small>(33 40)</small>  |                           |                         |
| <b>33 41 16 Subdrainage Piping</b> <small>(33 41)</small>  |                           |                         |
| <b>33 41 16 13 Subdrainage Piping</b> <small>(33 41 16)</small>  |                           |                         |
| See CSI section 33 42 11 00-0227 for polyethylene drain pipe.  |                           |                         |
| <b>33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping</b> <small>(33 41 16 13)</small>                               |                           |                         |
| <b>33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 41 16 13-0001)</small>                      |                           |                         |
| Note: Excludes couplings and gaskets.  |                           |                         |
| <b>33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 41 16 13-0002)</small>             |                           |                         |
| 33 41 16 13-0004 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 5.96                      | 4.73                    |
| For <100, Add  | 1.01                      |                         |
| For >1,000, Deduct   | -0.53                     |                         |
| 33 41 16 13-0005 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 7.81                      | 5.06                    |
| For <100, Add  | 1.15                      |                         |
| For >1,000, Deduct   | -0.64                     |                         |
| 33 41 16 13-0006 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 10.18                     | 5.32                    |
| For <100, Add  | 1.31                      |                         |
| For >1,000, Deduct   | -0.78                     |                         |
| 33 41 16 13-0007 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 14.45                     | 5.48                    |
| For <100, Add  | 1.54                      |                         |
| For >1,000, Deduct   | -1.00                     |                         |
| 33 41 16 13-0008 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 17.18                     | 5.99                    |
| For <100, Add  | 1.76                      |                         |
| For >1,000, Deduct   | -1.16                     |                         |
| 33 41 16 13-0009 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 23.05                     | 6.75                    |
| For <100, Add  | 2.17                      |                         |
| For >1,000, Deduct   | -1.49                     |                         |
| 33 41 16 13-0010 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 36.88                     | 11.36                   |
| For <100, Add  | 3.55                      |                         |
| For >1,000, Deduct   | -2.41                     |                         |
| 33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 52.32                     | 12.48                   |
| For <100, Add  | 4.49                      |                         |
| For >1,000, Deduct   | -3.24                     |                         |
| <br>   |                           |                         |
| <b>33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 41 16 13-0002)</small> |                           |                         |
| 33 41 16 13-0013 LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                 | 5.78                      | 4.73                    |
| For <100, Add  | 1.00                      |                         |
| For >1,000, Deduct   | -0.53                     |                         |
| 33 41 16 13-0014 LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                 | 7.73                      | 5.06                    |
| For <100, Add  | 1.15                      |                         |
| For >1,000, Deduct   | -0.64                     |                         |
| 33 41 16 13-0015 LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                 | 13.52                     | 5.32                    |
| For <100, Add  | 1.47                      |                         |
| For >1,000, Deduct   | -0.94                     |                         |
| 33 41 16 13-0016 LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                | 16.21                     | 5.48                    |
| For <100, Add  | 1.63                      |                         |
| For >1,000, Deduct   | -1.08                     |                         |
| 33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                | 19.11                     | 5.99                    |
| For <100, Add  | 1.85                      |                         |
| For >1,000, Deduct   | -1.26                     |                         |
| 33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                | 22.84                     | 6.75                    |
| For <100, Add  | 2.15                      |                         |
| For >1,000, Deduct   | -1.48                     |                         |
| 33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                | 35.61                     | 11.36                   |
| For <100, Add  | 3.48                      |                         |
| For >1,000, Deduct   | -2.35                     |                         |
| 33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....                                | 50.31                     | 12.48                   |
| For <100, Add  | 4.39                      |                         |
| For >1,000, Deduct   | -3.14                     |                         |
| <br>   |                           |                         |
| <b>33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> <small>(33 41 16 13-0001)</small>               |                           |                         |
| Note: Excludes couplings and gaskets.  |                           |                         |
| <b>33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 41 16 13-0021)</small>                       |                           |                         |
| 33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....  | 49.65                     | 26.39                   |
| 33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....  | 59.12                     | 30.79                   |
| 33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....  | 97.58                     | 37.39                   |



|                             |              |           |
|-----------------------------|--------------|-----------|
| <b>Utilities</b>            | <b>33</b>    | <b>CS</b> |
| <b>Stormwater Utilities</b> | <b>33 40</b> |           |
| <b>Subdrainage</b>          | <b>33 41</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....                           | 125.52                    | 46.20                   |
| 33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....                           | 188.09                    | 55.00                   |
| 33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....                           | 414.58                    | 71.86                   |
| 33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....                           | 494.34                    | 96.78                   |
| 33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....                           | 944.75                    | 109.98                  |
| <b>33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)</b>            |                           |                         |
| 33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....                           | 51.15                     | 26.39                   |
| 33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....                           | 64.03                     | 30.79                   |
| 33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....                           | 148.96                    | 37.39                   |
| <b>33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)</b> |                           |                         |
| 33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....                 | 33.61                     | 17.60                   |
| <b>33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)</b> |                           |                         |
| 33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....                 | 35.18                     | 17.60                   |
| 33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....                 | 45.77                     | 20.53                   |
| 33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....                 | 68.72                     | 24.93                   |
| 33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....                | 90.82                     | 30.79                   |
| <b>33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13)</b>                     |                           |                         |
| Note: Includes fittings, couplings, elbows, etc.   |                           |                         |
| 33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                     | 10.40                     | 4.97                    |
| For <100, Add  | 1.27                      |                         |
| For >1,000, Deduct   | -0.77                     |                         |
| 33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                     | 11.41                     | 5.37                    |
| For <100, Add  | 1.38                      |                         |
| For >1,000, Deduct   | -0.84                     |                         |
| 33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                     | 16.84                     | 6.44                    |
| For <100, Add  | 1.81                      |                         |
| For >1,000, Deduct   | -1.16                     |                         |
| 33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                     | 27.45                     | 8.04                    |
| For <100, Add  | 2.58                      |                         |
| For >1,000, Deduct   | -1.77                     |                         |
| 33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                    | 47.20                     | 8.37                    |
| For <100, Add  | 3.62                      |                         |
| For >1,000, Deduct   | -2.78                     |                         |
| 33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                    | 61.12                     | 9.14                    |
| For <100, Add  | 4.43                      |                         |
| For >1,000, Deduct   | -3.51                     |                         |
| 33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....                                    | 85.68                     | 10.30                   |
| For <100, Add  | 5.83                      |                         |
| For >1,000, Deduct   | -4.80                     |                         |
| <b>33 41 16 13-0050 Perforated Non-Reinforced Concrete Drainage Piping, C444 (33 41 16 13)</b>                       |                           |                         |
| 33 41 16 13-0051 LF 6" Perforated Non-Reinforced Concrete Drainage Pipe.....   | 33.10                     | 12.00                   |
| For Extra Strength, Add  | 1.88                      |                         |
| For >1,000, Deduct   | -1.66                     |                         |
| 33 41 16 13-0052 LF 8" Perforated Non-Reinforced Concrete Drainage Pipe.....   | 38.73                     | 13.33                   |
| For Extra Strength, Add  | 2.31                      |                         |
| For >1,000, Deduct   | -1.94                     |                         |
| 33 41 16 13-0053 LF 10" Perforated Non-Reinforced Concrete Drainage Pipe.....  | 43.85                     | 14.67                   |
| For Extra Strength, Add  | 2.69                      |                         |
| For >1,000, Deduct   | -2.19                     |                         |
| 33 41 16 13-0054 LF 12" Perforated Non-Reinforced Concrete Drainage Pipe.....  | 51.56                     | 16.01                   |
| For Extra Strength, Add  | 3.37                      |                         |
| For >1,000, Deduct   | -2.58                     |                         |
| <b>33 41 16 13-0055 Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)</b>            |                           |                         |
| Note: Bell and spigot or tongue and groove. With seals and gaskets.  |                           |                         |
| 33 41 16 13-0056 LF 6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe.....                              | 27.29                     | 12.00                   |
| For >1,000, Deduct   | -1.36                     |                         |
| 33 41 16 13-0057 LF 8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe.....                              | 30.20                     | 13.33                   |
| For >1,000, Deduct   | -1.51                     |                         |
| 33 41 16 13-0058 LF 10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....                            | 33.32                     | 14.67                   |
| For >1,000, Deduct   | -1.67                     |                         |
| 33 41 16 13-0059 LF 12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....                            | 38.08                     | 15.24                   |
| For >1,000, Deduct   | -1.90                     |                         |
| 33 41 16 13-0060 LF 15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....                            | 44.30                     | 17.14                   |
| For >1,000, Deduct   | -2.22                     |                         |
| 33 41 16 13-0061 LF 18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....                            | 54.81                     | 21.91                   |
| For >1,000, Deduct   | -2.74                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 41 16 13-0062 LF 21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                       | 68.45<br>-3.42            | 28.10                   |
| 33 41 16 13-0063 LF 24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                       | 83.47<br>-4.17            | 34.30                   |
| <b>33 41 16 13-0064 Standard Strength Porous Non-Reinforced Concrete Drainage Piping,<br/>C654 (33 41 16 13)</b>                                |                           |                         |
| 33 41 16 13-0065 LF 6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                     | 25.37<br>-1.27            | 12.00                   |
| 33 41 16 13-0066 LF 8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                     | 32.33<br>-1.62            | 13.33                   |
| 33 41 16 13-0067 LF 10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                    | 41.01<br>-2.05            | 14.67                   |
| 33 41 16 13-0068 LF 12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                    | 49.86<br>-2.49            | 16.01                   |
| 33 41 16 13-0069 LF 15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                    | 57.13<br>-2.86            | 17.81                   |
| 33 41 16 13-0070 LF 18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe .....<br><i>For &gt;1,000, Deduct</i>                    | 74.09<br>-3.70            | 22.21                   |
| <b>33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)</b>   |                           |                         |
| 33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe .....  | 25.10                     | 13.33                   |
| 33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe .....  | 30.02                     | 15.01                   |
| 33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe .....  | 34.32                     | 15.01                   |
| 33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe .....   | 46.04                     | 18.33                   |
| 33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe .....   | 54.78                     | 20.01                   |
| <b>33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)</b>   |                           |                         |
| 33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock.....   | 0.81                      |                         |
| 33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock.....   | 1.07                      |                         |
| 33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock.....   | 1.62                      |                         |
| 33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock.....   | 2.16                      |                         |
| 33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock.....  | 3.27                      |                         |
| 33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock.....  | 4.53                      |                         |
| 33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock.....  | 5.48                      |                         |
| <b>33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)</b>   |                           |                         |
| Note: Perforations are located in the bottom quarter points of the pipe.  |                           |                         |
| 33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>         | 24.23<br>1.28             | 5.71                    |
| 33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>         | 30.73<br>1.69             | 6.92                    |
| 33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>        | 38.73<br>2.12             | 8.79                    |
| 33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>        | 42.90<br>2.21             | 10.39                   |
| 33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>        | 49.32<br>2.78             | 10.76                   |
| 33 41 16 13-0091 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>        | 55.88<br>3.36             | 11.15                   |
| 33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>        | 64.03<br>4.00             | 12.03                   |
| <b>33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)</b>  |                           |                         |
| Note: Perforations are located in the bottom quarter points of the pipe.  |                           |                         |
| 33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>  | 26.29<br>1.49             | 5.71                    |
| 33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i>  | 33.52<br>1.97             | 6.92                    |
| 33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i> | 42.14<br>2.46             | 8.79                    |
| 33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i> | 46.21<br>2.54             | 10.39                   |
| 33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i> | 53.41<br>3.19             | 10.76                   |
| 33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i> | 60.74<br>3.84             | 11.15                   |
| 33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe .....<br><i>For Full Perforated, Add</i> | 69.69<br>4.56             | 12.03                   |
| <b>33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)</b>  |                           |                         |
| Note: Perforations are located in the bottom quarter points of the pipe.  |                           |                         |
| 33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i>                  | 26.95<br>1.55             | 5.71                    |
| 33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i>                  | 34.37<br>2.05             | 6.92                    |



|  |                             |              |           |
|--|-----------------------------|--------------|-----------|
|  | <b>Utilities</b>            | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b> | <b>33 40</b> | <b>CS</b> |
|  | <b>Subdrainage</b>          | <b>33 41</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 41 16 13-0104 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i> | 43.23<br>2.57             | 8.79                    |
| 33 41 16 13-0105 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i> | 54.38<br>3.36             | 10.39                   |
| 33 41 16 13-0106 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i> | 63.58<br>4.21             | 10.76                   |
| 33 41 16 13-0107 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i> | 73.07<br>5.08             | 11.15                   |
| 33 41 16 13-0108 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe .....<br><i>For Full Perforated, Add</i> | 84.07<br>6.00             | 12.03                   |

**33 41 19 Underslab Drainage (33 41)**

**33 41 19 13 Underslab Drainage Piping (33 41 19)**

**33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)**

Note: Consists of a layer of fine granular material overlying a coarse layer.

|   |        |  |
|---|--------|--|
| 33 41 19 13-0002 CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage ..... | 121.56 |  |
| 33 41 19 13-0003 CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage ..... | 119.03 |  |
| 33 41 19 13-0004 CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage ..... | 118.01 |  |
| 33 41 19 13-0005 CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage ..... | 116.48 |  |

**33 42 Stormwater Conveyance (33 40)**

Note: Piping includes hydrostatic testing, disinfecting and warning tape.

**33 42 11 Stormwater Gravity Piping (33 42)**

**33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)**

**33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)**

|   |                                    |       |
|---|------------------------------------|-------|
| 33 42 11 00-0003 LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 49.66<br>-2.48<br>2.55<br>5.36     | 16.01 |
| 33 42 11 00-0004 LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 59.75<br>-2.99<br>3.26<br>6.86     | 17.81 |
| 33 42 11 00-0005 LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 67.82<br>-3.39<br>3.43<br>7.22     | 22.21 |
| 33 42 11 00-0006 LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 86.93<br>-4.35<br>4.46<br>9.38     | 28.01 |
| 33 42 11 00-0007 LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 101.67<br>-5.08<br>5.04<br>10.62   | 34.01 |
| 33 42 11 00-0008 LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 129.30<br>-6.47<br>6.37<br>13.40   | 43.60 |
| 33 42 11 00-0009 LF 30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 137.56<br>-6.88<br>6.89<br>14.50   | 45.02 |
| 33 42 11 00-0010 LF 36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 170.63<br>-8.53<br>9.34<br>19.66   | 51.16 |
| 33 42 11 00-0011 LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 221.82<br>-11.09<br>13.51<br>28.44 | 56.28 |
| 33 42 11 00-0012 LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 265.93<br>-13.30<br>16.76<br>35.28 | 62.67 |
| 33 42 11 00-0013 LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 331.37<br>-16.57<br>21.76<br>45.81 | 71.62 |
| 33 42 11 00-0014 LF 60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 400.39<br>-20.02<br>26.76<br>56.34 | 83.08 |
| 33 42 11 00-0015 LF 66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets .....<br><i>For &gt;1,000, Deduct</i><br><i>For Class 4, Add</i><br><i>For Class 5, Add</i> | 619.67<br>-30.98<br>46.43<br>97.74 | 92.09 |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0016 LF 72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....                                       | 723.42                    | 100.27                  |
| For >1,000, Deduct   | -36.17                    |                         |
| For Class 4, Add   | 55.12                     |                         |
| For Class 5, Add   | 116.03                    |                         |
| 33 42 11 00-0017 LF 78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....                                       | 870.47                    | 112.55                  |
| For >1,000, Deduct   | -43.52                    |                         |
| For Class 4, Add   | 67.39                     |                         |
| For Class 5, Add   | 141.86                    |                         |
| 33 42 11 00-0018 LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....                                       | 1,122.67                  | 125.34                  |
| For >1,000, Deduct   | -56.13                    |                         |
| For Class 4, Add   | 89.64                     |                         |
| For Class 5, Add   | 188.72                    |                         |
| <b>33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)</b>                        |                           |                         |
| 33 42 11 00-0020 LF 12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....  | 83.90                     | 25.44                   |
| For >1,000, Deduct   | -4.20                     |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 4.76                      |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 10.46                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 22.83                     |                         |
| 33 42 11 00-0021 LF 14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....  | 120.30                    | 29.53                   |
| For >1,000, Deduct   | -6.02                     |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 7.81                      |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 17.18                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 37.49                     |                         |
| 33 42 11 00-0022 LF 19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....  | 166.81                    | 45.23                   |
| For >1,000, Deduct   | -8.34                     |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 10.22                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 22.48                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 49.05                     |                         |
| 33 42 11 00-0023 LF 22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....  | 197.09                    | 57.99                   |
| For >1,000, Deduct   | -9.85                     |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 11.43                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 25.14                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 54.84                     |                         |
| 33 42 11 00-0024 LF 24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....  | 209.27                    | 60.59                   |
| For >1,000, Deduct   | -10.46                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 12.27                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 27.00                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 58.90                     |                         |
| 33 42 11 00-0025 LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....  | 240.61                    | 63.97                   |
| For >1,000, Deduct   | -12.03                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 14.92                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 32.83                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 71.63                     |                         |
| 33 42 11 00-0026 LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....  | 271.94                    | 67.35                   |
| For >1,000, Deduct   | -13.60                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 17.57                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 38.66                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 84.35                     |                         |
| 33 42 11 00-0027 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....  | 331.94                    | 74.11                   |
| For >1,000, Deduct   | -16.60                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 22.61                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 49.74                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 108.51                    |                         |
| 33 42 11 00-0028 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....  | 400.33                    | 83.35                   |
| For >1,000, Deduct   | -20.02                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 28.13                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 61.88                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 135.00                    |                         |
| 33 42 11 00-0029 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....  | 455.70                    | 95.26                   |
| For >1,000, Deduct   | -22.79                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 31.96                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 70.31                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 153.41                    |                         |
| 33 42 11 00-0030 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....  | 564.83                    | 110.50                  |
| For >1,000, Deduct   | -28.24                    |                         |
| For Horizontal Elliptical - II (HE- II), Add   | 40.70                     |                         |
| For Horizontal Elliptical - III (HE- III), Add   | 89.53                     |                         |
| For Horizontal Elliptical - IV (HE- IV), Add   | 195.35                    |                         |
| 33 42 11 00-0031 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....  | 644.96                    | 121.76                  |
| 33 42 11 00-0032 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....  | 783.09                    | 133.02                  |
| 33 42 11 00-0033 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....  | 936.06                    | 150.41                  |
| 33 42 11 00-0034 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size)..... | 1,013.04                  | 166.78                  |
| 33 42 11 00-0035 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size)..... | 1,299.97                  | 174.97                  |
| 33 42 11 00-0036 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size)..... | 1,507.88                  | 183.16                  |
| <b>33 42 11 00-0037 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)</b>   |                           |                         |
| 33 42 11 00-0038 EA 12" Concrete Reducing Wye Without Gaskets.....   | 616.61                    | 60.97                   |
| 33 42 11 00-0039 EA 15" Concrete Reducing Wye Without Gaskets.....   | 739.33                    | 74.30                   |
| 33 42 11 00-0040 EA 18" Concrete Reducing Wye Without Gaskets.....   | 914.49                    | 81.93                   |
| 33 42 11 00-0041 EA 21" Concrete Reducing Wye Without Gaskets.....   | 1,048.87                  | 100.98                  |
| 33 42 11 00-0042 EA 24" Concrete Reducing Wye Without Gaskets.....   | 1,184.71                  | 121.93                  |



|  |                       |           |    |
|--|-----------------------|-----------|----|
|  | <b>Utilities</b>      | <b>33</b> |    |
|  | Stormwater Utilities  | 33 40     | CS |
|  | Stormwater Conveyance | 33 42     |    |

| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

**33 42 11 00-0043 Concrete Pipe Joint Gaskets** (33 42 11 00-0001)

|                  |    |   |       |  |
|------------------|----|---|-------|--|
| 33 42 11 00-0043 | EA | 12" Diameter Concrete Pipe Joint Gasket | 5.94  |  |
| 33 42 11 00-0045 | EA | 15" Diameter Concrete Pipe Joint Gasket | 7.03  |  |
| 33 42 11 00-0046 | EA | 18" Diameter Concrete Pipe Joint Gasket | 8.15  |  |
| 33 42 11 00-0047 | EA | 21" Diameter Concrete Pipe Joint Gasket | 9.85  |  |
| 33 42 11 00-0048 | EA | 24" Diameter Concrete Pipe Joint Gasket | 11.54 |  |
| 33 42 11 00-0049 | EA | 27" Diameter Concrete Pipe Joint Gasket | 12.85 |  |
| 33 42 11 00-0050 | EA | 30" Diameter Concrete Pipe Joint Gasket | 14.12 |  |
| 33 42 11 00-0051 | EA | 36" Diameter Concrete Pipe Joint Gasket | 17.26 |  |
| 33 42 11 00-0052 | EA | 42" Diameter Concrete Pipe Joint Gasket | 20.00 |  |
| 33 42 11 00-0053 | EA | 48" Diameter Concrete Pipe Joint Gasket | 23.07 |  |
| 33 42 11 00-0054 | EA | 54" Diameter Concrete Pipe Joint Gasket | 28.28 |  |
| 33 42 11 00-0055 | EA | 60" Diameter Concrete Pipe Joint Gasket | 41.86 |  |
| 33 42 11 00-0056 | EA | 66" Diameter Concrete Pipe Joint Gasket | 43.52 |  |
| 33 42 11 00-0057 | EA | 72" Diameter Concrete Pipe Joint Gasket | 45.12 |  |
| 33 42 11 00-0058 | EA | 78" Diameter Concrete Pipe Joint Gasket | 51.96 |  |
| 33 42 11 00-0059 | EA | 84" Diameter Concrete Pipe Joint Gasket | 62.30 |  |

**33 42 11 00-0060 Precast Concrete Cut Off Wall** (33 42 11 00-0001)

|                  |    |   |          |          |
|------------------|----|---|----------|----------|
| 33 42 11 00-0061 | EA | 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 296.08   | 180.08   |
| 33 42 11 00-0062 | EA | 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 364.80   | 223.05   |
| 33 42 11 00-0063 | EA | 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 449.90   | 282.40   |
| 33 42 11 00-0064 | EA | 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 530.90   | 337.65   |
| 33 42 11 00-0065 | EA | 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 609.76   | 390.76   |
| 33 42 11 00-0066 | EA | 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 744.08   | 499.32   |
| 33 42 11 00-0067 | EA | 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 958.33   | 687.59   |
| 33 42 11 00-0068 | EA | 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 1,190.14 | 867.67   |
| 33 42 11 00-0069 | EA | 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 1,462.23 | 1,088.48 |
| 33 42 11 00-0070 | EA | 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 1,632.80 | 1,226.81 |
| 33 42 11 00-0071 | EA | 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 1,820.62 | 1,375.19 |
| 33 42 11 00-0072 | EA | 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 2,010.19 | 1,527.64 |
| 33 42 11 00-0073 | EA | 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 2,089.40 | 1,585.97 |
| 33 42 11 00-0074 | EA | 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 2,159.11 | 1,637.12 |
| 33 42 11 00-0075 | EA | 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 2,228.84 | 1,688.29 |
| 33 42 11 00-0076 | EA | 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall | 2,300.87 | 1,739.44 |

**33 42 11 00-0077 Strap Assembly** (33 42 11 00-0001)

Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 33 42 11 00-0078 | EA | Up To 24" Diameter Pipe, 12' Strap Assembly | 243.38 |  |
| 33 42 11 00-0079 | EA | >24" Diameter Pipe, 12' Strap Assembly      | 344.31 |  |

**33 42 11 00-0080 Prestressed Concrete Cylinder Piping** (33 42 11)

**33 42 11 00-0081 150 PSI Prestressed Concrete Cylinder Pipe And Fittings** (33 42 11 00-0080)

**33 42 11 00-0082 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets** (33 42 11 00-0081)

Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".

|                  |    |   |        |       |
|------------------|----|---|--------|-------|
| 33 42 11 00-0083 | LF | 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 138.33 | 16.01 |
|                  |    | For >1,000, Deduct  | -6.92  |       |
|                  |    | For 100 PSI, Deduct   | -28.87 |       |
| 33 42 11 00-0084 | LF | 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 147.59 | 17.81 |
|                  |    | For >1,000, Deduct  | -7.38  |       |
|                  |    | For 100 PSI, Deduct   | -30.54 |       |
| 33 42 11 00-0085 | LF | 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 160.57 | 22.21 |
|                  |    | For >1,000, Deduct  | -8.03  |       |
|                  |    | For 100 PSI, Deduct   | -32.21 |       |
| 33 42 11 00-0086 | LF | 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 175.54 | 28.01 |
|                  |    | For >1,000, Deduct  | -8.78  |       |
|                  |    | For 100 PSI, Deduct   | -33.88 |       |
| 33 42 11 00-0087 | LF | 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 190.80 | 34.01 |
|                  |    | For >1,000, Deduct  | -9.54  |       |
|                  |    | For 100 PSI, Deduct   | -35.56 |       |
| 33 42 11 00-0088 | LF | 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 224.31 | 45.02 |
|                  |    | For >1,000, Deduct  | -11.22 |       |
|                  |    | For 100 PSI, Deduct   | -39.81 |       |
| 33 42 11 00-0089 | LF | 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 248.59 | 51.16 |
|                  |    | For >1,000, Deduct  | -12.43 |       |
|                  |    | For 100 PSI, Deduct   | -44.06 |       |
| 33 42 11 00-0090 | LF | 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 288.67 | 56.28 |
|                  |    | For >1,000, Deduct  | -14.43 |       |
|                  |    | For 100 PSI, Deduct   | -52.27 |       |
| 33 42 11 00-0091 | LF | 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 331.42 | 62.67 |
|                  |    | For >1,000, Deduct  | -16.57 |       |
|                  |    | For 100 PSI, Deduct   | -60.47 |       |
| 33 42 11 00-0092 | LF | 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets | 440.78 | 82.22 |
|                  |    | For >1,000, Deduct  | -22.04 |       |
|                  |    | For 100 PSI, Deduct   | -80.83 |       |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-0093 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 531.28                    | 95.37                   |
| For >1,000, Deduct  | -26.56                    |                         |
| For 100 PSI, Deduct   | -98.76                    |                         |
| 33 42 11 00-0094 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 597.03                    | 105.71                  |
| For >1,000, Deduct  | -29.85                    |                         |
| For 100 PSI, Deduct   | -111.68                   |                         |
| 33 42 11 00-0095 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 665.82                    | 115.10                  |
| For >1,000, Deduct  | -33.29                    |                         |
| For 100 PSI, Deduct   | -125.35                   |                         |
| 33 42 11 00-0096 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 756.27                    | 129.19                  |
| For >1,000, Deduct  | -37.81                    |                         |
| For 100 PSI, Deduct   | -142.82                   |                         |
| 33 42 11 00-0097 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 846.73                    | 143.88                  |
| For >1,000, Deduct  | -42.34                    |                         |
| For 100 PSI, Deduct   | -160.30                   |                         |
| 33 42 11 00-0098 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 1,046.04                  | 167.95                  |
| For >1,000, Deduct  | -52.30                    |                         |
| For 100 PSI, Deduct   | -201.32                   |                         |
| 33 42 11 00-0099 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                        | 1,231.22                  | 191.79                  |
| For >1,000, Deduct  | -61.56                    |                         |
| For 100 PSI, Deduct   | -239.31                   |                         |
| 33 42 11 00-0100 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 1,434.15                  | 206.22                  |
| For >1,000, Deduct  | -71.71                    |                         |
| For 100 PSI, Deduct   | -284.89                   |                         |
| 33 42 11 00-0101 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 1,619.52                  | 218.99                  |
| For >1,000, Deduct  | -80.98                    |                         |
| For 100 PSI, Deduct   | -326.67                   |                         |
| 33 42 11 00-0102 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 1,956.84                  | 231.76                  |
| For >1,000, Deduct  | -97.84                    |                         |
| For 100 PSI, Deduct   | -406.44                   |                         |
| 33 42 11 00-0103 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 2,277.42                  | 243.45                  |
| For >1,000, Deduct  | -113.87                   |                         |
| For 100 PSI, Deduct   | -482.41                   |                         |
| 33 42 11 00-0104 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 2,482.52                  | 255.14                  |
| For >1,000, Deduct  | -124.13                   |                         |
| For 100 PSI, Deduct   | -529.51                   |                         |
| 33 42 11 00-0105 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 2,690.68                  | 266.83                  |
| For >1,000, Deduct  | -134.53                   |                         |
| For 100 PSI, Deduct   | -577.37                   |                         |
| 33 42 11 00-0106 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 2,897.30                  | 278.52                  |
| For >1,000, Deduct  | -144.87                   |                         |
| For 100 PSI, Deduct   | -624.85                   |                         |
| 33 42 11 00-0107 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....                       | 3,103.93                  | 290.21                  |
| For >1,000, Deduct  | -155.20                   |                         |
| For 100 PSI, Deduct   | -672.34                   |                         |
| <b>33 42 11 00-0108 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets</b> <sup>(33)</sup> |                           |                         |
| <small>42 11 00-0081</small>  |                           |                         |
| 33 42 11 00-0109 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 455.05                    | 150.04                  |
| 33 42 11 00-0110 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 629.24                    | 214.33                  |
| 33 42 11 00-0111 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 808.60                    | 285.78                  |
| 33 42 11 00-0112 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 987.95                    | 357.23                  |
| 33 42 11 00-0113 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 1,198.73                  | 443.92                  |
| 33 42 11 00-0114 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 1,536.18                  | 595.39                  |
| 33 42 11 00-0115 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 1,918.40                  | 716.24                  |
| 33 42 11 00-0116 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 2,234.09                  | 835.96                  |
| 33 42 11 00-0117 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 2,514.70                  | 954.65                  |
| 33 42 11 00-0118 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 3,092.86                  | 1,192.03                |
| 33 42 11 00-0119 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 4,101.29                  | 1,644.25                |
| 33 42 11 00-0120 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 4,571.61                  | 1,820.42                |
| 33 42 11 00-0121 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 5,041.95                  | 1,996.60                |
| 33 42 11 00-0122 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 6,081.50                  | 2,290.21                |
| 33 42 11 00-0123 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 7,114.55                  | 2,583.82                |
| 33 42 11 00-0124 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 8,426.96                  | 2,936.17                |
| 33 42 11 00-0125 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 9,732.88                  | 3,288.50                |
| 33 42 11 00-0126 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 12,940.62                 | 4,145.91                |
| 33 42 11 00-0127 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 16,131.85                 | 4,975.09                |
| 33 42 11 00-0128 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 20,961.81                 | 6,633.45                |
| 33 42 11 00-0129 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 25,713.28                 | 8,291.82                |
| 33 42 11 00-0130 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 29,026.90                 | 8,943.32                |
| 33 42 11 00-0131 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 32,344.92                 | 9,594.81                |
| 33 42 11 00-0132 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 42,257.73                 | 10,246.31               |
| 33 42 11 00-0133 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....   | 39,048.95                 | 10,897.82               |
| <b>33 42 11 00-0134 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets</b> <sup>(33)</sup> |                           |                         |
| <small>42 11 00-0081</small>  |                           |                         |
| 33 42 11 00-0135 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 424.05                    | 150.04                  |
| 33 42 11 00-0136 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 589.13                    | 214.33                  |
| 33 42 11 00-0137 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 761.19                    | 285.78                  |
| 33 42 11 00-0138 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 933.25                    | 357.23                  |
| 33 42 11 00-0139 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 1,136.74                  | 443.92                  |
| 33 42 11 00-0140 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....    | 1,451.10                  | 555.38                  |



|  |                              |              |
|--|------------------------------|--------------|
|  | <b>Utilities</b>             | <b>33</b>    |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |

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| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0141 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 1,821.16                  | 716.24                  |
| 33 42 11 00-0142 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 2,121.65                  | 835.96                  |
| 33 42 11 00-0143 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 2,393.76                  | 954.65                  |
| 33 42 11 00-0144 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 2,920.40                  | 1,192.03                |
| 33 42 11 00-0145 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 3,937.59                  | 1,644.25                |
| 33 42 11 00-0146 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 4,396.05                  | 1,820.42                |
| 33 42 11 00-0147 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 4,854.53                  | 1,996.60                |
| 33 42 11 00-0148 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 5,644.01                  | 2,290.21                |
| 33 42 11 00-0149 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 6,426.99                  | 2,583.82                |
| 33 42 11 00-0150 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 7,559.26                  | 2,936.17                |
| 33 42 11 00-0151 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                 | 8,685.04                  | 3,288.50                |
| 33 42 11 00-0152 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 11,326.53                 | 4,110.63                |
| 33 42 11 00-0153 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 14,092.62                 | 4,975.09                |
| 33 42 11 00-0154 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 18,426.45                 | 6,633.45                |
| 33 42 11 00-0155 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 22,681.77                 | 8,291.82                |
| 33 42 11 00-0156 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 25,327.92                 | 8,943.32                |
| 33 42 11 00-0157 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 27,978.47                 | 10,897.82               |
| 33 42 11 00-0158 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 30,638.92                 | 10,246.31               |
| 33 42 11 00-0159 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....                                | 33,619.63                 | 10,897.82               |
| <b>33 42 11 00-0160 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0080)</b>                                |                           |                         |
| <b>33 42 11 00-0161 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0160)</b>                          |                           |                         |
| Note: AWWA C301  |                           |                         |
| 33 42 11 00-0162 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....  | 264.28                    | 45.02                   |
| For >1,000, Deduct   | -13.21                    |                         |
| 33 42 11 00-0163 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....  | 322.40                    | 51.16                   |
| For >1,000, Deduct   | -16.12                    |                         |
| 33 42 11 00-0164 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....  | 376.29                    | 56.28                   |
| For >1,000, Deduct   | -18.81                    |                         |
| <b>33 42 11 00-0165 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0160)</b>                       |                           |                         |
| Note: AWWA C301  |                           |                         |
| 33 42 11 00-0166 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....                                     | 507.42                    | 62.62                   |
| For >1,000, Deduct   | -25.37                    |                         |
| 33 42 11 00-0167 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....                                     | 609.71                    | 82.22                   |
| For >1,000, Deduct   | -30.49                    |                         |
| 33 42 11 00-0168 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....                                     | 702.87                    | 95.37                   |
| For >1,000, Deduct   | -35.14                    |                         |
| 33 42 11 00-0169 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....                                     | 791.33                    | 105.71                  |
| For >1,000, Deduct   | -39.57                    |                         |
| 33 42 11 00-0170 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....                                     | 958.65                    | 115.10                  |
| For >1,000, Deduct   | -47.93                    |                         |
| <b>33 42 11 00-0171 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0160)</b>  |                           |                         |
| Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked. |                           |                         |
| 33 42 11 00-0172 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 2,397.70                  |                         |
| 33 42 11 00-0173 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 2,575.31                  |                         |
| 33 42 11 00-0174 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 2,664.11                  |                         |
| 33 42 11 00-0175 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 3,019.33                  |                         |
| 33 42 11 00-0176 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 3,108.13                  |                         |
| 33 42 11 00-0177 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 3,285.74                  |                         |
| 33 42 11 00-0178 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 3,374.54                  |                         |
| 33 42 11 00-0179 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....   | 3,463.35                  |                         |
| 33 42 11 00-0180 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 4,440.19                  |                         |
| 33 42 11 00-0181 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 4,440.19                  |                         |
| 33 42 11 00-0182 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 5,061.81                  |                         |
| 33 42 11 00-0183 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 5,061.81                  |                         |
| 33 42 11 00-0184 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 5,417.03                  |                         |
| 33 42 11 00-0185 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 5,417.03                  |                         |
| 33 42 11 00-0186 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 5,861.05                  |                         |
| 33 42 11 00-0187 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....  | 5,861.05                  |                         |
| <b>33 42 11 00-0188 Quick Test Joints (33 42 11 00-0160)</b>   |                           |                         |
| 33 42 11 00-0189 EA 30" Quick Test Joint.....  | 609.35                    |                         |
| 33 42 11 00-0190 EA 36" Quick Test Joint.....  | 614.47                    |                         |
| 33 42 11 00-0191 EA 42" Quick Test Joint.....  | 619.59                    |                         |
| 33 42 11 00-0192 EA 48" Quick Test Joint.....  | 631.97                    |                         |
| 33 42 11 00-0193 EA 54" Quick Test Joint.....  | 661.89                    |                         |
| 33 42 11 00-0194 EA 60" Quick Test Joint.....  | 685.74                    |                         |
| 33 42 11 00-0195 EA 66" Quick Test Joint.....  | 721.66                    |                         |
| 33 42 11 00-0196 EA 72" Quick Test Joint.....  | 757.61                    |                         |
| <b>33 42 11 00-0197 Harnessed Joints (33 42 11 00-0160)</b>  |                           |                         |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 42 11 00-0198 Harness Clamp Restrained Joints</b> (33 42 11 00-0197)   |                           |                         |
| 33 42 11 00-0199 EA 30" Harness Clamp Restrained Joint .....   | 4,033.32                  |                         |
| 33 42 11 00-0200 EA 36" Harness Clamp Restrained Joint .....   | 4,190.42                  |                         |
| 33 42 11 00-0201 EA 42" Harness Clamp Restrained Joint .....   | 4,347.52                  |                         |
| 33 42 11 00-0202 EA 48" Harness Clamp Restrained Joint .....   | 4,504.62                  |                         |
| 33 42 11 00-0203 EA 54" Harness Clamp Restrained Joint .....   | 4,676.84                  |                         |
| 33 42 11 00-0204 EA 60" Harness Clamp Restrained Joint .....   | 4,916.56                  |                         |
| 33 42 11 00-0205 EA 66" Harness Clamp Restrained Joint .....   | 5,080.27                  |                         |
| 33 42 11 00-0206 EA 72" Harness Clamp Restrained Joint .....   | 5,441.57                  |                         |
| <b>33 42 11 00-0207 Snap Ring Restrained Joints</b> (33 42 11 00-0197)   |                           |                         |
| 33 42 11 00-0208 EA 30" Snap Ring Restrained Joint .....   | 689.77                    |                         |
| 33 42 11 00-0209 EA 36" Snap Ring Restrained Joint .....   | 786.08                    |                         |
| 33 42 11 00-0210 EA 42" Snap Ring Restrained Joint .....   | 1,049.56                  |                         |
| 33 42 11 00-0211 EA 48" Snap Ring Restrained Joint .....   | 1,191.46                  |                         |
| 33 42 11 00-0212 EA 54" Snap Ring Restrained Joint .....   | 1,348.49                  |                         |
| 33 42 11 00-0213 EA 60" Snap Ring Restrained Joint .....   | 1,527.41                  |                         |
| 33 42 11 00-0214 EA 66" Snap Ring Restrained Joint .....   | 1,691.12                  |                         |
| 33 42 11 00-0215 EA 72" Snap Ring Restrained Joint .....   | 1,885.25                  |                         |
| <b>33 42 11 00-0216 Pipe Repairs</b> (33 42 11 00-0160)  |                           |                         |
| Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJD sleeve, 20' pipe. |                           |                         |
| <b>33 42 11 00-0217 Lined Cylinder Pipe Repair</b> (33 42 11 00-0216)  |                           |                         |
| 33 42 11 00-0218 EA 30" Lined Cylinder Pipe Repair .....   | 7,311.07                  |                         |
| 33 42 11 00-0219 EA 36" Lined Cylinder Pipe Repair .....   | 9,076.47                  |                         |
| 33 42 11 00-0220 EA 42" Lined Cylinder Pipe Repair .....   | 10,094.16                 |                         |
| <b>33 42 11 00-0221 Embedded Cylinder Pipe Repair</b> (33 42 11 00-0216)   |                           |                         |
| Note: Field welded concrete enclosure assembly with concrete pipe.   |                           |                         |
| 33 42 11 00-0222 EA 48" Embedded Cylinder Pipe Repair .....  | 15,133.02                 |                         |
| 33 42 11 00-0223 EA 54" Embedded Cylinder Pipe Repair .....  | 17,588.05                 |                         |
| 33 42 11 00-0224 EA 60" Embedded Cylinder Pipe Repair .....  | 20,060.14                 |                         |
| 33 42 11 00-0225 EA 66" Embedded Cylinder Pipe Repair .....  | 22,665.69                 |                         |
| 33 42 11 00-0226 EA 72" Embedded Cylinder Pipe Repair .....  | 27,305.71                 |                         |
| <b>33 42 11 00-0227 High Density Polyethylene (HDPE) Drainage Piping</b> (33 42 11)  |                           |                         |
| <b>33 42 11 00-0228 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> (33 42 11 00-0227)            |                           |                         |
| Note: Excludes couplings and gaskets.  |                           |                         |
| <b>33 42 11 00-0229 Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> (33 42 11 00-0228)   |                           |                         |
| 33 42 11 00-0230 LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                   | 15.43                     | 6.71                    |
| For <100, Add  | 2.68                      |                         |
| For >1,000, Deduct   | -1.44                     |                         |
| 33 42 11 00-0231 LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                   | 20.71                     | 7.80                    |
| For <100, Add  | 3.12                      |                         |
| For >1,000, Deduct   | -1.82                     |                         |
| 33 42 11 00-0232 LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                   | 25.78                     | 9.08                    |
| For <100, Add  | 3.63                      |                         |
| For >1,000, Deduct   | -2.20                     |                         |
| 33 42 11 00-0233 LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 29.81                     | 9.40                    |
| For <100, Add  | 3.76                      |                         |
| For >1,000, Deduct   | -2.43                     |                         |
| 33 42 11 00-0234 LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 31.42                     | 9.72                    |
| For <100, Add  | 3.89                      |                         |
| For >1,000, Deduct   | -2.54                     |                         |
| 33 42 11 00-0235 LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 36.19                     | 10.07                   |
| For <100, Add  | 4.03                      |                         |
| For >1,000, Deduct   | -2.82                     |                         |
| 33 42 11 00-0236 LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 44.80                     | 10.43                   |
| For <100, Add  | 4.17                      |                         |
| For >1,000, Deduct   | -3.28                     |                         |
| 33 42 11 00-0237 LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 62.57                     | 12.23                   |
| For <100, Add  | 4.89                      |                         |
| For >1,000, Deduct   | -4.35                     |                         |
| 33 42 11 00-0238 LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 89.23                     | 16.45                   |
| For <100, Add  | 6.58                      |                         |
| For >1,000, Deduct   | -6.11                     |                         |
| 33 42 11 00-0239 LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                  | 117.73                    | 20.80                   |
| For <100, Add  | 8.32                      |                         |
| For >1,000, Deduct   | -7.97                     |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 33 42 11 00-0240 |     |     | <b>Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0228)</small>             |                        |                      |
| 33 42 11 00-0241 | LF  |     | 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 31.21                  | 9.72                 |
|                  |     |     | For <100, Add  | 3.89                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.53                  |                      |
| 33 42 11 00-0242 | LF  |     | 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 37.03                  | 10.07                |
|                  |     |     | For <100, Add  | 4.03                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.86                  |                      |
| 33 42 11 00-0243 | LF  |     | 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 46.07                  | 10.43                |
|                  |     |     | For <100, Add  | 4.17                   |                      |
|                  |     |     | For >1,000, Deduct   | -3.35                  |                      |
| 33 42 11 00-0244 | LF  |     | 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 64.57                  | 12.23                |
|                  |     |     | For <100, Add  | 4.89                   |                      |
|                  |     |     | For >1,000, Deduct   | -4.45                  |                      |
| 33 42 11 00-0245 | LF  |     | 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 94.72                  | 16.45                |
|                  |     |     | For <100, Add  | 6.58                   |                      |
|                  |     |     | For >1,000, Deduct   | -6.38                  |                      |
| 33 42 11 00-0246 | LF  |     | 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 121.81                 | 20.80                |
|                  |     |     | For <100, Add  | 8.32                   |                      |
|                  |     |     | For >1,000, Deduct   | -8.17                  |                      |
| 33 42 11 00-0247 | LF  |     | 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 161.18                 | 22.69                |
|                  |     |     | For <100, Add  | 9.08                   |                      |
|                  |     |     | For >1,000, Deduct   | -10.33                 |                      |
| 33 42 11 00-0248 | LF  |     | 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 175.30                 | 25.60                |
|                  |     |     | For <100, Add  | 10.24                  |                      |
|                  |     |     | For >1,000, Deduct   | -11.33                 |                      |
| 33 42 11 00-0249 |     |     | <b>Perforated, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0227)</small>  |                        |                      |
|                  |     |     | Note: Excludes couplings and gaskets.  |                        |                      |
| 33 42 11 00-0250 |     |     | <b>Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0249)</small>         |                        |                      |
| 33 42 11 00-0251 | LF  |     | 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 16.48                  | 6.71                 |
|                  |     |     | For <100, Add  | 2.68                   |                      |
|                  |     |     | For >1,000, Deduct   | -1.50                  |                      |
| 33 42 11 00-0252 | LF  |     | 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 20.75                  | 7.80                 |
|                  |     |     | For <100, Add  | 3.12                   |                      |
|                  |     |     | For >1,000, Deduct   | -1.82                  |                      |
| 33 42 11 00-0253 | LF  |     | 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 25.78                  | 9.08                 |
|                  |     |     | For <100, Add  | 3.63                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.20                  |                      |
| 33 42 11 00-0254 | LF  |     | 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 29.84                  | 9.40                 |
|                  |     |     | For <100, Add  | 3.76                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.43                  |                      |
| 33 42 11 00-0255 | LF  |     | 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 31.42                  | 9.72                 |
|                  |     |     | For <100, Add  | 3.89                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.54                  |                      |
| 33 42 11 00-0256 | LF  |     | 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 36.22                  | 10.07                |
|                  |     |     | For <100, Add  | 4.03                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.82                  |                      |
| 33 42 11 00-0257 | LF  |     | 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 44.84                  | 10.43                |
|                  |     |     | For <100, Add  | 4.17                   |                      |
|                  |     |     | For >1,000, Deduct   | -3.29                  |                      |
| 33 42 11 00-0258 | LF  |     | 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 62.57                  | 12.23                |
|                  |     |     | For <100, Add  | 4.89                   |                      |
|                  |     |     | For >1,000, Deduct   | -4.35                  |                      |
| 33 42 11 00-0259 | LF  |     | 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 89.58                  | 16.45                |
|                  |     |     | For <100, Add  | 6.58                   |                      |
|                  |     |     | For >1,000, Deduct   | -6.13                  |                      |
| 33 42 11 00-0260 | LF  |     | 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 117.73                 | 20.80                |
|                  |     |     | For <100, Add  | 8.32                   |                      |
|                  |     |     | For >1,000, Deduct   | -7.97                  |                      |
| 33 42 11 00-0261 |     |     | <b>Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 42 11 00-0249)</small> |                        |                      |
| 33 42 11 00-0262 | LF  |     | 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                                  | 31.24                  | 9.72                 |
|                  |     |     | For <100, Add  | 3.89                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.53                  |                      |
| 33 42 11 00-0263 | LF  |     | 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                                  | 37.07                  | 10.07                |
|                  |     |     | For <100, Add  | 4.03                   |                      |
|                  |     |     | For >1,000, Deduct   | -2.86                  |                      |
| 33 42 11 00-0264 | LF  |     | 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                                  | 46.10                  | 10.43                |
|                  |     |     | For <100, Add  | 4.17                   |                      |
|                  |     |     | For >1,000, Deduct   | -3.35                  |                      |
| 33 42 11 00-0265 | LF  |     | 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....                                  | 64.57                  | 12.23                |
|                  |     |     | For <100, Add  | 4.89                   |                      |
|                  |     |     | For >1,000, Deduct   | -4.45                  |                      |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-0266 LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)<br>Pipe .....<br>For <100, Add .....<br>For >1,000, Deduct ..... | 94.72<br>6.58<br>-6.38    | 16.45                   |
| 33 42 11 00-0267 LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)<br>Pipe .....<br>For <100, Add .....<br>For >1,000, Deduct ..... | 121.81<br>8.32<br>-8.17   | 20.80                   |
| 33 42 11 00-0268 LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)<br>Pipe .....<br>For <100, Add .....<br>For >1,000, Deduct ..... | 161.18<br>9.08<br>-10.33  | 22.69                   |
| 33 42 11 00-0269 LF 48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)<br>Pipe .....<br>For <100, Add .....<br>For >1,000, Deduct ..... | 175.30<br>10.24<br>-11.33 | 25.60                   |
| <b>33 42 11 00-0270 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> (33 42 11 00-0270)<br>Note: Excludes couplings and gaskets.                     |                           |                         |
| <b>33 42 11 00-0271 Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)  |                           |                         |
| 33 42 11 00-0272 EA 4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 74.07                     | 26.39                   |
| 33 42 11 00-0273 EA 6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 93.42                     | 30.79                   |
| 33 42 11 00-0274 EA 8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 152.65                    | 37.39                   |
| 33 42 11 00-0275 EA 10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 234.44                    | 46.20                   |
| 33 42 11 00-0276 EA 12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 372.54                    | 55.00                   |
| 33 42 11 00-0277 EA 15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 526.64                    | 71.86                   |
| 33 42 11 00-0278 EA 18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 758.33                    | 96.78                   |
| 33 42 11 00-0279 EA 24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 973.96                    | 110.47                  |
| 33 42 11 00-0280 EA 30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 1,711.28                  | 127.59                  |
| 33 42 11 00-0281 EA 36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 2,200.25                  | 147.38                  |
| 33 42 11 00-0282 EA 42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 3,673.07                  | 175.97                  |
| 33 42 11 00-0283 EA 48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 4,612.06                  | 208.98                  |
| <b>33 42 11 00-0284 Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)  |                           |                         |
| 33 42 11 00-0285 EA 4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 110.36                    | 26.39                   |
| 33 42 11 00-0286 EA 6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 133.24                    | 30.79                   |
| 33 42 11 00-0287 EA 8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 177.78                    | 37.39                   |
| 33 42 11 00-0288 EA 10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 262.15                    | 46.20                   |
| 33 42 11 00-0289 EA 12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 461.69                    | 55.00                   |
| 33 42 11 00-0290 EA 15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 499.29                    | 71.86                   |
| 33 42 11 00-0291 EA 18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 705.12                    | 96.78                   |
| <b>33 42 11 00-0292 22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)   |                           |                         |
| 33 42 11 00-0293 EA 4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 44.83                     | 17.60                   |
| 33 42 11 00-0294 EA 6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 55.49                     | 20.53                   |
| 33 42 11 00-0295 EA 8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 81.64                     | 24.93                   |
| 33 42 11 00-0296 EA 10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 102.83                    | 30.79                   |
| 33 42 11 00-0297 EA 12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 150.30                    | 36.66                   |
| 33 42 11 00-0298 EA 15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 238.98                    | 46.93                   |
| 33 42 11 00-0299 EA 18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 316.40                    | 64.53                   |
| 33 42 11 00-0300 EA 24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 607.23                    | 73.32                   |
| 33 42 11 00-0301 EA 30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 846.06                    | 85.05                   |
| 33 42 11 00-0302 EA 36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 991.66                    | 98.25                   |
| 33 42 11 00-0303 EA 42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 1,268.45                  | 117.31                  |
| 33 42 11 00-0304 EA 48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 1,717.44                  | 139.32                  |
| <b>33 42 11 00-0305 45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)   |                           |                         |
| 33 42 11 00-0306 EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 48.80                     | 17.60                   |
| 33 42 11 00-0307 EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 63.76                     | 20.53                   |
| 33 42 11 00-0308 EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....   | 85.87                     | 24.93                   |
| 33 42 11 00-0309 EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 137.18                    | 30.79                   |
| 33 42 11 00-0310 EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 150.30                    | 36.66                   |
| 33 42 11 00-0311 EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 238.29                    | 46.93                   |
| 33 42 11 00-0312 EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 371.79                    | 64.53                   |
| 33 42 11 00-0313 EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 650.03                    | 73.32                   |
| 33 42 11 00-0314 EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 848.09                    | 85.05                   |
| 33 42 11 00-0315 EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 1,083.89                  | 98.25                   |
| 33 42 11 00-0316 EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 1,624.43                  | 117.31                  |
| 33 42 11 00-0317 EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....  | 2,036.51                  | 139.32                  |



|                       |           |           |
|-----------------------|-----------|-----------|
| <b>Utilities</b>      | <b>33</b> | <b>CS</b> |
| Stormwater Utilities  | 33 40     |           |
| Stormwater Conveyance | 33 42     |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 42 11 00-0318</b> <b>Couplings And End Caps, Corrugated High Density Polyethylene (HDPE)<br/>Pipe Fittings</b> <small>(33 42 11 00-0227)</small> |                           |                         |
| Note: For single and double wall high density polyethylene (HDPE) piping.  |                           |                         |
| <b>33 42 11 00-0319</b> <b>Couplings, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0318)</small>                           |                           |                         |
| 33 42 11 00-0320    EA    4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 2.37                      |                         |
| 33 42 11 00-0321    EA    6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 4.25                      |                         |
| 33 42 11 00-0322    EA    8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 6.54                      |                         |
| 33 42 11 00-0323    EA    10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 8.04                      |                         |
| 33 42 11 00-0324    EA    12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 8.65                      |                         |
| 33 42 11 00-0325    EA    15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 12.31                     |                         |
| 33 42 11 00-0326    EA    18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 18.22                     |                         |
| 33 42 11 00-0327    EA    24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 29.01                     |                         |
| 33 42 11 00-0328    EA    30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 44.53                     |                         |
| 33 42 11 00-0329    EA    36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 58.27                     |                         |
| 33 42 11 00-0330    EA    42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 91.60                     |                         |
| 33 42 11 00-0331    EA    48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....   | 123.89                    |                         |
| <b>33 42 11 00-0332</b> <b>Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE)<br/>Pipe</b> <small>(33 42 11 00-0318)</small>           |                           |                         |
| 33 42 11 00-0333    EA    4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 125.44                    |                         |
| 33 42 11 00-0334    EA    6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 131.34                    |                         |
| 33 42 11 00-0335    EA    8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....   | 137.52                    |                         |
| 33 42 11 00-0336    EA    10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 143.99                    |                         |
| 33 42 11 00-0337    EA    12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 170.78                    |                         |
| 33 42 11 00-0338    EA    15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 176.33                    |                         |
| 33 42 11 00-0339    EA    18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 183.91                    |                         |
| 33 42 11 00-0340    EA    24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 209.48                    |                         |
| 33 42 11 00-0341    EA    30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 335.81                    |                         |
| 33 42 11 00-0342    EA    36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 367.82                    |                         |
| 33 42 11 00-0343    EA    42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 400.77                    |                         |
| 33 42 11 00-0344    EA    48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....  | 486.74                    |                         |
| <b>33 42 11 00-0345</b> <b>End Caps, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0318)</small>                            |                           |                         |
| 33 42 11 00-0346    EA    6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....  | 33.13                     |                         |
| 33 42 11 00-0347    EA    8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....  | 38.92                     |                         |
| 33 42 11 00-0348    EA    10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....   | 63.17                     |                         |
| 33 42 11 00-0349    EA    12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....   | 107.58                    |                         |
| 33 42 11 00-0350    EA    15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....   | 125.19                    |                         |
| 33 42 11 00-0351    EA    18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....   | 169.28                    |                         |
| 33 42 11 00-0352    EA    24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....   | 175.39                    |                         |
| <b>33 42 11 00-0353</b> <b>Vitrified Clay Piping</b> <small>(33 42 11)</small>   |                           |                         |
| <b>33 42 11 00-0354</b> <b>Extra Strength Vitrified Clay Piping</b> <small>(33 42 11 00-0353)</small>  |                           |                         |
| <b>33 42 11 00-0355</b> <b>Plain Joint, Extra Strength, Vitrified Clay Piping</b> <small>(33 42 11 00-0354)</small>                                    |                           |                         |
| Note: ASTM C700.   |                           |                         |
| 33 42 11 00-0356    LF    4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....   | 22.27                     |                         |
| For 3' Lengths, Add  | 1.83                      |                         |
| For 2' Lengths, Add  | 2.44                      |                         |
| For Standard Strength, Deduct  | -0.61                     |                         |
| For >1,000, Deduct   | -1.11                     |                         |
| 33 42 11 00-0357    LF    6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....   | 37.04                     |                         |
| For 3' Lengths, Add  | 2.84                      |                         |
| For 2' Lengths, Add  | 3.79                      |                         |
| For Standard Strength, Deduct  | -0.95                     |                         |
| For >1,000, Deduct   | -1.85                     |                         |
| 33 42 11 00-0358    LF    8" Plain Joint, Extra Strength, Vitrified Clay Pipe.....   | 44.17                     |                         |
| For 3' Lengths, Add  | 4.07                      |                         |
| For 2' Lengths, Add  | 5.42                      |                         |
| For Standard Strength, Deduct  | -1.36                     |                         |
| For >1,000, Deduct   | -2.21                     |                         |
| 33 42 11 00-0359    LF    10" Plain Joint, Extra Strength, Vitrified Clay Pipe.....  | 53.08                     |                         |
| For 3' Lengths, Add  | 6.23                      |                         |
| For 2' Lengths, Add  | 8.30                      |                         |
| For Standard Strength, Deduct  | -2.08                     |                         |
| For >1,000, Deduct   | -2.65                     |                         |
| 33 42 11 00-0360    LF    12" Plain Joint, Extra Strength, Vitrified Clay Pipe.....  | 64.57                     |                         |
| For 3' Lengths, Add  | 8.79                      |                         |
| For 2' Lengths, Add  | 11.72                     |                         |
| For Standard Strength, Deduct  | -2.93                     |                         |
| For >1,000, Deduct   | -3.23                     |                         |
| 33 42 11 00-0361    LF    15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....  | 94.18                     |                         |
| For 3' Lengths, Add  | 16.48                     |                         |
| For 2' Lengths, Add  | 21.98                     |                         |
| For Standard Strength, Deduct  | -5.49                     |                         |
| For >1,000, Deduct   | -4.71                     |                         |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 33 42 11 00-0362        | LF  |     | 18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....                          | 127.70                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 23.63                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 31.50                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -7.88                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -6.39                  |                      |
| 33 42 11 00-0363        | LF  |     | 21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....                          | 187.89                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 37.85                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 50.46                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -12.62                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -9.39                  |                      |
| 33 42 11 00-0364        | LF  |     | 24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....                          | 239.77                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 49.45                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 65.93                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -16.48                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -11.99                 |                      |
| 33 42 11 00-0365        | LF  |     | 30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....                          | 296.52                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 61.65                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 82.20                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -20.55                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -14.83                 |                      |
| 33 42 11 00-0366        | LF  |     | 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....                          | 358.76                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 74.47                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 99.30                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -24.82                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -17.94                 |                      |
| <b>33 42 11 00-0367</b> |     |     | <b>Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354)</b> |                        |                      |
|                         |     |     | Note: ASTM C425.   |                        |                      |
| 33 42 11 00-0368        | LF  |     | 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                     | 31.70                  |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 2.16                   |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 2.88                   |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -0.72                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -1.59                  |                      |
| 33 42 11 00-0369        | LF  |     | 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                     | 39.32                  |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 3.53                   |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 4.70                   |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -1.18                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -1.97                  |                      |
| 33 42 11 00-0370        | LF  |     | 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                     | 47.22                  |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 4.98                   |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 6.64                   |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -1.66                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -2.36                  |                      |
| 33 42 11 00-0371        | LF  |     | 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 59.60                  |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 8.18                   |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 10.91                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -2.73                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -2.98                  |                      |
| 33 42 11 00-0372        | LF  |     | 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 71.08                  |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 10.74                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 14.32                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -3.58                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -3.55                  |                      |
| 33 42 11 00-0373        | LF  |     | 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 104.56                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 19.60                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 26.13                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -6.53                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -5.23                  |                      |
| 33 42 11 00-0374        | LF  |     | 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 144.58                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 28.69                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 38.25                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -9.56                  |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -7.23                  |                      |
| 33 42 11 00-0375        | LF  |     | 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 207.22                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 43.65                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 58.20                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -14.55                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -10.36                 |                      |
| 33 42 11 00-0376        | LF  |     | 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 270.29                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 58.60                  |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 78.14                  |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -19.53                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -13.51                 |                      |
| 33 42 11 00-0377        | LF  |     | 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 430.82                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 101.94                 |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 135.92                 |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -33.98                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -21.54                 |                      |
| 33 42 11 00-0378        | LF  |     | 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....                    | 611.07                 |                      |
|                         |     |     | <i>For 3' Lengths, Add</i>   | 150.17                 |                      |
|                         |     |     | <i>For 2' Lengths, Add</i>   | 200.22                 |                      |
|                         |     |     | <i>For Standard Strength, Deduct</i>   | -50.06                 |                      |
|                         |     |     | <i>For &gt;1,000, Deduct</i>   | -30.55                 |                      |



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|  | <b>Utilities</b>      | <b>33</b> |    |
|  | Stormwater Utilities  | 33 40     | CS |
|  | Stormwater Conveyance | 33 42     |    |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

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| 33 42 11 00-0379 | Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0353)       |          |
| 33 42 11 00-0380 | 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)          |          |
| 33 42 11 00-0381 | Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0380) |          |
| 33 42 11 00-0382 | EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay              | 92.07    |
| 33 42 11 00-0383 | EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay              | 123.93   |
| 33 42 11 00-0384 | EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay              | 176.22   |
| 33 42 11 00-0385 | EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 241.97   |
| 33 42 11 00-0386 | EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 318.67   |
| 33 42 11 00-0387 | EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 753.44   |
| 33 42 11 00-0388 | EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 1,061.58 |
| 33 42 11 00-0389 | EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 1,653.87 |
| 33 42 11 00-0390 | EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 1,909.44 |
| 33 42 11 00-0391 | EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 2,218.41 |
| 33 42 11 00-0392 | EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay             | 3,321.88 |

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| 33 42 11 00-0393 | Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0380) |          |
| 33 42 11 00-0394 | EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay               | 104.29   |
| 33 42 11 00-0395 | EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay               | 147.55   |
| 33 42 11 00-0396 | EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay               | 199.10   |
| 33 42 11 00-0397 | EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 266.73   |
| 33 42 11 00-0398 | EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 337.65   |
| 33 42 11 00-0399 | EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 845.73   |
| 33 42 11 00-0400 | EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 1,228.69 |
| 33 42 11 00-0401 | EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 1,265.52 |
| 33 42 11 00-0402 | EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 2,444.24 |
| 33 42 11 00-0403 | EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 2,724.19 |
| 33 42 11 00-0404 | EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay              | 4,038.39 |

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| 33 42 11 00-0405 | 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)           |          |
| 33 42 11 00-0406 | Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405) |          |
| 33 42 11 00-0407 | EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay               | 108.25   |
| 33 42 11 00-0408 | EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay               | 143.41   |
| 33 42 11 00-0409 | EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay               | 199.01   |
| 33 42 11 00-0410 | EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 267.02   |
| 33 42 11 00-0411 | EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 346.89   |
| 33 42 11 00-0412 | EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 784.83   |
| 33 42 11 00-0413 | EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 1,100.73 |
| 33 42 11 00-0414 | EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 1,703.25 |
| 33 42 11 00-0415 | EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 1,969.41 |
| 33 42 11 00-0416 | EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 2,293.18 |
| 33 42 11 00-0417 | EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay              | 3,405.00 |

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| 33 42 11 00-0418 | Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405) |          |
| 33 42 11 00-0419 | EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay               | 123.69   |
| 33 42 11 00-0420 | EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay               | 170.92   |
| 33 42 11 00-0421 | EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay               | 226.45   |
| 33 42 11 00-0422 | EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 296.77   |
| 33 42 11 00-0423 | EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 371.50   |
| 33 42 11 00-0424 | EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 883.40   |
| 33 42 11 00-0425 | EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 1,275.68 |
| 33 42 11 00-0426 | EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 2,465.40 |
| 33 42 11 00-0427 | EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 2,516.19 |
| 33 42 11 00-0428 | EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 2,813.92 |
| 33 42 11 00-0429 | EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay              | 4,138.13 |

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| 33 42 11 00-0430 | Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0379)           |          |
| 33 42 11 00-0431 | Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430) |          |
| 33 42 11 00-0432 | EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay              | 119.58   |
| 33 42 11 00-0433 | EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay              | 155.57   |
| 33 42 11 00-0434 | EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay              | 210.23   |
| 33 42 11 00-0435 | EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 277.70   |
| 33 42 11 00-0436 | EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 349.75   |
| 33 42 11 00-0437 | EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 795.02   |
| 33 42 11 00-0438 | EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 1,110.72 |
| 33 42 11 00-0439 | EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 1,602.06 |
| 33 42 11 00-0440 | EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 2,226.04 |
| 33 42 11 00-0441 | EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 2,360.31 |
| 33 42 11 00-0442 | EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay             | 3,385.22 |

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| 33 42 11 00-0443 | Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430) |        |
| 33 42 11 00-0444 | EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay              | 145.98 |
| 33 42 11 00-0445 | EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay              | 199.13 |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 33 42 11 00-0446        | EA  |     | 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                           | 261.10                 |                      |
| 33 42 11 00-0447        | EA  |     | 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 337.87                 |                      |
| 33 42 11 00-0448        | EA  |     | 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 420.11                 |                      |
| 33 42 11 00-0449        | EA  |     | 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 966.87                 |                      |
| 33 42 11 00-0450        | EA  |     | 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 1,390.65               |                      |
| 33 42 11 00-0451        | EA  |     | 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 2,060.55               |                      |
| 33 42 11 00-0452        | EA  |     | 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 2,727.42               |                      |
| 33 42 11 00-0453        | EA  |     | 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....                          | 3,157.41               |                      |
| 33 42 11 00-0454        | EA  |     | 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....                             | 4,471.59               |                      |
| <b>33 42 11 00-0455</b> |     |     | <b>Corrugated Metal Piping (33 42 11)</b>   |                        |                      |
| <b>33 42 11 00-0456</b> |     |     | <b>Galvanized Corrugated Steel Piping (33 42 11 00-0455)</b>                                      |                        |                      |
| <b>33 42 11 00-0457</b> |     |     | <b>2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)</b>           |                        |                      |
| <b>33 42 11 00-0458</b> |     |     | <b>16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0457)</b> |                        |                      |
| 33 42 11 00-0459        | LF  |     | 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 36.01                  | 10.00                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 3.69                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 7.54                   |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 13.46                  |                      |
| 33 42 11 00-0460        | LF  |     | 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 40.70                  | 10.48                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 4.64                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 9.49                   |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 16.96                  |                      |
| 33 42 11 00-0461        | LF  |     | 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 45.54                  | 11.43                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 5.62                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 11.50                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 20.54                  |                      |
| 33 42 11 00-0462        | LF  |     | 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 51.86                  | 12.39                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 6.73                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 13.76                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 24.57                  |                      |
| 33 42 11 00-0463        | LF  |     | 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 57.40                  | 13.33                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 7.57                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 15.48                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 27.64                  |                      |
| 33 42 11 00-0464        | LF  |     | 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 75.75                  | 17.14                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 9.82                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 20.08                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 35.86                  |                      |
| 33 42 11 00-0465        | LF  |     | 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 98.93                  | 22.51                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 12.39                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 25.33                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 45.24                  |                      |
| 33 42 11 00-0466        | LF  |     | 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 112.65                 | 26.60                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 14.66                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 29.98                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 53.54                  |                      |
| 33 42 11 00-0467        | LF  |     | 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 126.59                 | 30.70                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 16.41                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 33.58                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 59.96                  |                      |
| <b>33 42 11 00-0468</b> |     |     | <b>14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0467)</b> |                        |                      |
| 33 42 11 00-0469        | LF  |     | 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 39.31                  | 10.00                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 3.74                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 8.67                   |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 17.53                  |                      |
| 33 42 11 00-0470        | LF  |     | 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 44.75                  | 10.48                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 4.69                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 10.87                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 21.98                  |                      |
| 33 42 11 00-0471        | LF  |     | 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 50.44                  | 11.43                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 5.68                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 13.16                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 26.61                  |                      |
| 33 42 11 00-0472        | LF  |     | 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 57.53                  | 12.39                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 6.76                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 15.66                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 31.65                  |                      |
| 33 42 11 00-0473        | LF  |     | 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 63.99                  | 13.33                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 7.65                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 17.72                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 35.82                  |                      |
| 33 42 11 00-0474        | LF  |     | 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....                    | 83.79                  | 17.14                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>  | 9.82                   |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>   | 22.75                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>  | 45.99                  |                      |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    | <b>CS</b> |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |           |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST             | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------------------|----------------------|
| 33 42 11 00-0475        | LF  |     | 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 108.69<br>12.31<br>28.52<br>57.65  | 22.51                |
| 33 42 11 00-0476        | LF  |     | 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 123.82<br>14.49<br>33.57<br>67.86  | 26.60                |
| 33 42 11 00-0477        | LF  |     | 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 139.37<br>16.28<br>37.73<br>76.26  | 30.70                |
| 33 42 11 00-0478        | LF  |     | 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 166.55<br>20.03<br>46.40<br>93.79  | 34.79                |
| <b>33 42 11 00-0479</b> |     |     | <b>12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping<sup>03</sup></b>  |                                    |                      |
| 33 42 11 00-0480        | LF  |     | <sup>42 11 00-0457)</sup><br>18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 60.59<br>6.51<br>11.75<br>22.59    | 11.43                |
| 33 42 11 00-0481        | LF  |     | 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 69.31<br>7.69<br>13.89<br>26.69    | 12.39                |
| 33 42 11 00-0482        | LF  |     | 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 77.42<br>8.72<br>15.75<br>30.26    | 12.39                |
| 33 42 11 00-0483        | LF  |     | 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 100.41<br>11.09<br>20.03<br>38.49  | 17.14                |
| 33 42 11 00-0484        | LF  |     | 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 128.40<br>13.71<br>24.76<br>47.58  | 22.51                |
| 33 42 11 00-0485        | LF  |     | 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 146.60<br>16.07<br>29.01<br>55.76  | 26.60                |
| 33 42 11 00-0486        | LF  |     | 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 165.48<br>18.14<br>32.76<br>62.96  | 30.70                |
| 33 42 11 00-0487        | LF  |     | 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 195.37<br>21.75<br>39.28<br>75.50  | 34.79                |
| 33 42 11 00-0488        | LF  |     | 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 213.60<br>23.82<br>43.02<br>82.68  | 36.83                |
| 33 42 11 00-0489        | LF  |     | 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 258.76<br>29.00<br>52.37<br>100.65 | 45.02                |
| <b>33 42 11 00-0490</b> |     |     | <b>10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping<sup>03</sup></b>  |                                    |                      |
| 33 42 11 00-0491        | LF  |     | <sup>42 11 00-0457)</sup><br>36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 146.85<br>17.44<br>29.14<br>41.57  | 22.51                |
| 33 42 11 00-0492        | LF  |     | 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 168.19<br>20.43<br>34.13<br>48.70  | 26.60                |
| 33 42 11 00-0493        | LF  |     | 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 189.98<br>23.09<br>38.58<br>55.05  | 30.70                |
| 33 42 11 00-0494        | LF  |     | 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 222.82<br>27.35<br>45.69<br>65.19  | 34.79                |
| 33 42 11 00-0495        | LF  |     | 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>                              | 244.14<br>30.04<br>50.18<br>71.60  | 36.83                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0496 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....           | 292.33                    | 45.02                   |
| For Bituminous Coated Pipe, Add  | 35.93                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 60.03                     |                         |
| For Smooth-Flo, Add  | 85.65                     |                         |
| 33 42 11 00-0497 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....           | 349.44                    | 65.48                   |
| For Bituminous Coated Pipe, Add  | 38.58                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 64.45                     |                         |
| For Smooth-Flo, Add  | 91.96                     |                         |
| <b>33 42 11 00-0498 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> (33 42 11 00-0456)           |                           |                         |
| <b>33 42 11 00-0499 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> (33 42 11 00-0498) |                           |                         |
| 33 42 11 00-0500 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 115.85                    | 22.51                   |
| For Bituminous Coated Pipe, Add  | 13.62                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 30.92                     |                         |
| For Smooth-Flo, Add  | 61.56                     |                         |
| 33 42 11 00-0501 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 132.05                    | 26.60                   |
| For Bituminous Coated Pipe, Add  | 15.99                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 36.30                     |                         |
| For Smooth-Flo, Add  | 72.28                     |                         |
| 33 42 11 00-0502 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 148.45                    | 30.70                   |
| For Bituminous Coated Pipe, Add  | 17.94                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 40.72                     |                         |
| For Smooth-Flo, Add  | 81.08                     |                         |
| 33 42 11 00-0503 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 176.96                    | 34.79                   |
| For Bituminous Coated Pipe, Add  | 21.91                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 49.74                     |                         |
| For Smooth-Flo, Add  | 99.03                     |                         |
| 33 42 11 00-0504 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 192.81                    | 36.83                   |
| For Bituminous Coated Pipe, Add  | 23.87                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 54.18                     |                         |
| For Smooth-Flo, Add  | 107.89                    |                         |
| 33 42 11 00-0505 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 241.46                    | 45.02                   |
| For Bituminous Coated Pipe, Add  | 30.66                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 69.60                     |                         |
| For Smooth-Flo, Add  | 138.58                    |                         |
| 33 42 11 00-0506 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 293.63                    | 65.48                   |
| For Bituminous Coated Pipe, Add  | 32.68                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 74.19                     |                         |
| For Smooth-Flo, Add  | 147.72                    |                         |
| 33 42 11 00-0507 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 316.80                    | 71.62                   |
| For Bituminous Coated Pipe, Add  | 34.71                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 78.79                     |                         |
| For Smooth-Flo, Add  | 156.89                    |                         |
| 33 42 11 00-0508 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 337.18                    | 76.74                   |
| For Bituminous Coated Pipe, Add  | 36.74                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 83.40                     |                         |
| For Smooth-Flo, Add  | 166.06                    |                         |
| 33 42 11 00-0509 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 357.60                    | 81.85                   |
| For Bituminous Coated Pipe, Add  | 38.78                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 88.02                     |                         |
| For Smooth-Flo, Add  | 175.27                    |                         |
| 33 42 11 00-0510 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 378.67                    | 86.97                   |
| For Bituminous Coated Pipe, Add  | 40.80                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 92.61                     |                         |
| For Smooth-Flo, Add  | 184.40                    |                         |
| 33 42 11 00-0511 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                | 402.68                    | 92.09                   |
| For Bituminous Coated Pipe, Add  | 42.84                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 97.25                     |                         |
| For Smooth-Flo, Add  | 193.64                    |                         |
| <b>33 42 11 00-0512 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> (33 42 11 00-0498) |                           |                         |
| 33 42 11 00-0513 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 194.23                    | 34.79                   |
| For Bituminous Coated Pipe, Add  | 25.36                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 49.71                     |                         |
| For Smooth-Flo, Add  | 100.44                    |                         |
| 33 42 11 00-0514 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 211.91                    | 36.83                   |
| For Bituminous Coated Pipe, Add  | 27.69                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 54.27                     |                         |
| For Smooth-Flo, Add  | 109.65                    |                         |
| 33 42 11 00-0515 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 262.48                    | 45.02                   |
| For Bituminous Coated Pipe, Add  | 34.86                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 68.33                     |                         |
| For Smooth-Flo, Add  | 138.06                    |                         |
| 33 42 11 00-0516 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 316.52                    | 65.48                   |
| For Bituminous Coated Pipe, Add  | 37.26                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 73.03                     |                         |
| For Smooth-Flo, Add  | 147.55                    |                         |
| 33 42 11 00-0517 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                 | 341.53                    | 71.62                   |
| For Bituminous Coated Pipe, Add  | 39.66                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 77.73                     |                         |
| For Smooth-Flo, Add  | 157.04                    |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    | <b>CS</b> |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |           |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 33 42 11 00-0518        | LF  |     | 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 363.86                 | 76.74                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 42.08                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 82.47                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 166.62                 |                      |
| 33 42 11 00-0519        | LF  |     | 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 386.08                 | 81.85                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 44.47                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 87.17                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 176.11                 |                      |
| 33 42 11 00-0520        | LF  |     | 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 409.03                 | 86.97                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 46.87                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 91.86                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 185.60                 |                      |
| 33 42 11 00-0521        | LF  |     | 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 434.88                 | 92.09                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 49.28                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 96.59                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 195.15                 |                      |
| 33 42 11 00-0522        | LF  |     | 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 463.09                 | 102.32               |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 51.69                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 101.31                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 204.69                 |                      |
| 33 42 11 00-0523        | LF  |     | 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 490.66                 | 112.55               |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 54.06                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 105.95                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 214.06                 |                      |
| <b>33 42 11 00-0524</b> |     |     | <b>12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0498)</small> |                        |                      |
| 33 42 11 00-0525        | LF  |     | 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 254.29                 | 36.83                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 36.17                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 68.90                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 112.30                 |                      |
| 33 42 11 00-0526        | LF  |     | 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 309.41                 | 45.02                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 44.25                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 84.30                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 137.40                 |                      |
| 33 42 11 00-0527        | LF  |     | 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 367.54                 | 65.48                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 47.46                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 90.42                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 147.38                 |                      |
| 33 42 11 00-0528        | LF  |     | 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 396.69                 | 71.62                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 50.69                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 96.56                  |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 157.39                 |                      |
| 33 42 11 00-0529        | LF  |     | 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 423.11                 | 76.74                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 53.93                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 102.73                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 167.44                 |                      |
| 33 42 11 00-0530        | LF  |     | 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 449.47                 | 81.85                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 57.15                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 108.87                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 177.45                 |                      |
| 33 42 11 00-0531        | LF  |     | 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 476.59                 | 86.97                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 60.38                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 115.02                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 187.48                 |                      |
| 33 42 11 00-0532        | LF  |     | 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 506.57                 | 92.09                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 63.62                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 121.19                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 197.53                 |                      |
| 33 42 11 00-0533        | LF  |     | 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 538.85                 | 102.32               |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 66.84                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 127.33                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 207.54                 |                      |
| 33 42 11 00-0534        | LF  |     | 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 570.59                 | 112.55               |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 70.04                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 133.43                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 217.48                 |                      |
| 33 42 11 00-0535        | LF  |     | 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                  | 601.23                 | 122.78               |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 73.28                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 139.60                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 227.53                 |                      |
| <b>33 42 11 00-0536</b> |     |     | <b>10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0498)</small> |                        |                      |
| 33 42 11 00-0537        | LF  |     | 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 415.12                 | 65.48                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 56.98                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 108.26                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 144.73                 |                      |
| 33 42 11 00-0538        | LF  |     | 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                                   | 448.17                 | 71.62                |
|                         |     |     | <i>For Bituminous Coated Pipe, Add</i>   | 60.98                  |                      |
|                         |     |     | <i>For Bituminous Coated And 25% Paved, Add</i>  | 115.87                 |                      |
|                         |     |     | <i>For Smooth-Flo, Add</i>   | 154.90                 |                      |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-0539 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                        | 478.50                    | 76.74                   |
| For Bituminous Coated Pipe, Add   | 65.00                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 123.51                    |                         |
| For Smooth-Flo, Add   | 165.11                    |                         |
| 33 42 11 00-0540 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                        | 508.76                    | 81.85                   |
| For Bituminous Coated Pipe, Add   | 69.01                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 131.12                    |                         |
| For Smooth-Flo, Add   | 175.28                    |                         |
| 33 42 11 00-0541 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                        | 539.79                    | 86.97                   |
| For Bituminous Coated Pipe, Add   | 73.02                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 138.74                    |                         |
| For Smooth-Flo, Add   | 185.47                    |                         |
| 33 42 11 00-0542 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 573.67                    | 92.09                   |
| For Bituminous Coated Pipe, Add   | 77.04                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 146.37                    |                         |
| For Smooth-Flo, Add   | 195.68                    |                         |
| 33 42 11 00-0543 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 609.85                    | 102.32                  |
| For Bituminous Coated Pipe, Add   | 81.04                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 153.98                    |                         |
| For Smooth-Flo, Add   | 205.85                    |                         |
| 33 42 11 00-0544 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 645.46                    | 112.55                  |
| For Bituminous Coated Pipe, Add   | 85.02                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 161.53                    |                         |
| For Smooth-Flo, Add   | 215.94                    |                         |
| 33 42 11 00-0545 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 680.04                    | 122.78                  |
| For Bituminous Coated Pipe, Add   | 89.04                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 169.18                    |                         |
| For Smooth-Flo, Add   | 226.17                    |                         |
| 33 42 11 00-0546 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 716.46                    | 133.02                  |
| For Bituminous Coated Pipe, Add   | 93.03                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 176.76                    |                         |
| For Smooth-Flo, Add   | 236.30                    |                         |
| 33 42 11 00-0547 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 755.53                    | 143.25                  |
| For Bituminous Coated Pipe, Add   | 97.05                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 184.40                    |                         |
| For Smooth-Flo, Add   | 246.51                    |                         |
| 33 42 11 00-0548 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....                       | 797.72                    | 153.48                  |
| For Bituminous Coated Pipe, Add   | 101.08                    |                         |
| For Bituminous Coated And 25% Paved, Add  | 192.04                    |                         |
| For Smooth-Flo, Add   | 256.73                    |                         |
| <b>33 42 11 00-0549 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)</b>           |                           |                         |
| <b>33 42 11 00-0550 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0549)</b> |                           |                         |
| 33 42 11 00-0551 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 148.94                    | 30.70                   |
| For Bituminous Coated Pipe, Add   | 22.55                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 51.40                     |                         |
| For Smooth-Flo, Add   | 81.61                     |                         |
| 33 42 11 00-0552 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 177.92                    | 34.79                   |
| For Bituminous Coated Pipe, Add   | 27.63                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 62.99                     |                         |
| For Smooth-Flo, Add   | 100.01                    |                         |
| 33 42 11 00-0553 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 193.65                    | 36.83                   |
| For Bituminous Coated Pipe, Add   | 30.05                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 68.51                     |                         |
| For Smooth-Flo, Add   | 108.77                    |                         |
| 33 42 11 00-0554 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 239.47                    | 45.02                   |
| For Bituminous Coated Pipe, Add   | 37.83                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 86.25                     |                         |
| For Smooth-Flo, Add   | 136.94                    |                         |
| 33 42 11 00-0555 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 291.41                    | 65.48                   |
| For Bituminous Coated Pipe, Add   | 40.30                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 91.88                     |                         |
| For Smooth-Flo, Add   | 145.88                    |                         |
| 33 42 11 00-0556 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 314.28                    | 71.62                   |
| For Bituminous Coated Pipe, Add   | 42.76                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 97.49                     |                         |
| For Smooth-Flo, Add   | 154.78                    |                         |
| 33 42 11 00-0557 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 334.31                    | 76.74                   |
| For Bituminous Coated Pipe, Add   | 45.21                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 103.07                    |                         |
| For Smooth-Flo, Add   | 163.65                    |                         |
| 33 42 11 00-0558 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 354.31                    | 81.85                   |
| For Bituminous Coated Pipe, Add   | 47.65                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 108.64                    |                         |
| For Smooth-Flo, Add   | 172.48                    |                         |
| 33 42 11 00-0559 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                 | 375.19                    | 86.97                   |
| For Bituminous Coated Pipe, Add   | 50.13                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 114.29                    |                         |
| For Smooth-Flo, Add   | 181.45                    |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST              | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|-------------------------------------|----------------------|
| 33 42 11 00-0560        | LF  |     | 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 399.12<br>52.66<br>120.06<br>190.63 | 92.09                |
| <b>33 42 11 00-0561</b> |     |     | <b>14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0549)</small>  |                                     |                      |
| 33 42 11 00-0562        | LF  |     | 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 199.51<br>26.42<br>62.09<br>112.42  | 34.79                |
| 33 42 11 00-0563        | LF  |     | 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 217.65<br>28.84<br>67.77<br>122.71  | 36.83                |
| 33 42 11 00-0564        | LF  |     | 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 265.66<br>35.50<br>83.43<br>151.05  | 45.02                |
| 33 42 11 00-0565        | LF  |     | 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 319.70<br>37.90<br>89.06<br>161.25  | 65.48                |
| 33 42 11 00-0566        | LF  |     | 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 345.13<br>40.38<br>94.88<br>171.80  | 71.62                |
| 33 42 11 00-0567        | LF  |     | 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 367.57<br>42.82<br>100.62<br>182.19 | 76.74                |
| 33 42 11 00-0568        | LF  |     | 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 388.76<br>45.01<br>105.77<br>191.51 | 81.85                |
| 33 42 11 00-0569        | LF  |     | 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 413.12<br>47.69<br>112.06<br>202.90 | 86.97                |
| 33 42 11 00-0570        | LF  |     | 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 439.09<br>50.12<br>117.79<br>213.27 | 92.09                |
| 33 42 11 00-0571        | LF  |     | 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 467.30<br>52.53<br>123.45<br>223.52 | 102.32               |
| 33 42 11 00-0572        | LF  |     | 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 495.41<br>55.01<br>129.26<br>234.05 | 112.55               |
| <b>33 42 11 00-0573</b> |     |     | <b>12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0549)</small>  |                                     |                      |
| 33 42 11 00-0574        | LF  |     | 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 262.59<br>37.83<br>71.87<br>129.74  | 36.83                |
| 33 42 11 00-0575        | LF  |     | 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 315.15<br>45.40<br>86.26<br>155.72  | 45.02                |
| 33 42 11 00-0576        | LF  |     | 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 373.90<br>48.74<br>92.60<br>167.16  | 65.48                |
| 33 42 11 00-0577        | LF  |     | 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 403.50<br>52.05<br>98.90<br>178.53  | 71.62                |
| 33 42 11 00-0578        | LF  |     | 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 430.15<br>55.33<br>105.13<br>189.80 | 76.74                |
| 33 42 11 00-0579        | LF  |     | 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 457.04<br>58.66<br>111.46<br>201.22 | 81.85                |
| 33 42 11 00-0580        | LF  |     | 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 484.55<br>61.97<br>117.75<br>212.56 | 86.97                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0581 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 514.84                    | 92.09                   |
| For Bituminous Coated Pipe, Add  | 65.27                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 124.02                    |                         |
| For Smooth-Flo, Add  | 223.88                    |                         |
| 33 42 11 00-0582 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 547.65                    | 102.32                  |
| For Bituminous Coated Pipe, Add  | 68.60                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 130.34                    |                         |
| For Smooth-Flo, Add  | 235.30                    |                         |
| 33 42 11 00-0583 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 579.93                    | 112.55                  |
| For Bituminous Coated Pipe, Add  | 71.91                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 136.63                    |                         |
| For Smooth-Flo, Add  | 246.65                    |                         |
| 33 42 11 00-0584 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 610.91                    | 122.78                  |
| For Bituminous Coated Pipe, Add  | 75.22                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 142.91                    |                         |
| For Smooth-Flo, Add  | 257.99                    |                         |
| <b>33 42 11 00-0585 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0549)</small> |                           |                         |
| 33 42 11 00-0586 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                                | 425.80                    | 65.48                   |
| For Bituminous Coated Pipe, Add  | 59.12                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 112.32                    |                         |
| For Smooth-Flo, Add  | 176.46                    |                         |
| 33 42 11 00-0587 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                                | 460.23                    | 71.62                   |
| For Bituminous Coated Pipe, Add  | 63.40                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 120.45                    |                         |
| For Smooth-Flo, Add  | 189.24                    |                         |
| 33 42 11 00-0588 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                                | 491.40                    | 76.74                   |
| For Bituminous Coated Pipe, Add  | 67.58                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 128.41                    |                         |
| For Smooth-Flo, Add  | 201.74                    |                         |
| 33 42 11 00-0589 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                                | 522.38                    | 81.85                   |
| For Bituminous Coated Pipe, Add  | 71.73                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 136.29                    |                         |
| For Smooth-Flo, Add  | 214.12                    |                         |
| 33 42 11 00-0590 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                                | 554.33                    | 86.97                   |
| For Bituminous Coated Pipe, Add  | 75.93                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 144.26                    |                         |
| For Smooth-Flo, Add  | 226.65                    |                         |
| 33 42 11 00-0591 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 588.91                    | 92.09                   |
| For Bituminous Coated Pipe, Add  | 80.09                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 152.16                    |                         |
| For Smooth-Flo, Add  | 239.06                    |                         |
| 33 42 11 00-0592 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 626.00                    | 102.32                  |
| For Bituminous Coated Pipe, Add  | 84.27                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 160.12                    |                         |
| For Smooth-Flo, Add  | 251.55                    |                         |
| 33 42 11 00-0593 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 662.64                    | 112.55                  |
| For Bituminous Coated Pipe, Add  | 88.45                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 168.06                    |                         |
| For Smooth-Flo, Add  | 264.03                    |                         |
| 33 42 11 00-0594 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 697.88                    | 122.78                  |
| For Bituminous Coated Pipe, Add  | 92.61                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 175.96                    |                         |
| For Smooth-Flo, Add  | 276.44                    |                         |
| 33 42 11 00-0595 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 741.80                    | 133.02                  |
| For Bituminous Coated Pipe, Add  | 98.10                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 186.39                    |                         |
| For Smooth-Flo, Add  | 292.82                    |                         |
| 33 42 11 00-0596 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 783.40                    | 143.25                  |
| For Bituminous Coated Pipe, Add  | 102.62                    |                         |
| For Bituminous Coated And 25% Paved, Add   | 194.99                    |                         |
| For Smooth-Flo, Add  | 306.33                    |                         |
| 33 42 11 00-0597 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....                               | 828.96                    | 153.48                  |
| For Bituminous Coated Pipe, Add  | 107.32                    |                         |
| For Bituminous Coated And 25% Paved, Add   | 203.92                    |                         |
| For Smooth-Flo, Add  | 320.36                    |                         |
| <b>33 42 11 00-0598 Helical Ribbed, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0456)</small>                       |                           |                         |
| <b>33 42 11 00-0599 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0598)</small>             |                           |                         |
| 33 42 11 00-0600 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....  | 52.13                     | 11.43                   |
| For Bituminous Coated Pipe, Add  | 6.95                      |                         |
| 33 42 11 00-0601 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....  | 59.59                     | 12.39                   |
| For Bituminous Coated Pipe, Add  | 8.28                      |                         |
| 33 42 11 00-0602 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....  | 66.47                     | 13.33                   |
| For Bituminous Coated Pipe, Add  | 9.40                      |                         |
| 33 42 11 00-0603 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....  | 87.16                     | 17.14                   |
| For Bituminous Coated Pipe, Add  | 12.11                     |                         |
| 33 42 11 00-0604 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....  | 112.90                    | 22.51                   |
| For Bituminous Coated Pipe, Add  | 15.18                     |                         |
| 33 42 11 00-0605 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....  | 128.91                    | 26.60                   |
| For Bituminous Coated Pipe, Add  | 17.90                     |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 33 42 11 00-0606        | LF  |     | 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 145.23<br>20.15        | 30.70                |
| 33 42 11 00-0607        | LF  |     | 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 173.33<br>24.68        | 34.79                |
| 33 42 11 00-0608        | LF  |     | 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 189.10<br>26.94        | 36.83                |
| <b>33 42 11 00-0609</b> |     |     | <b>14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)</b>                                   |                        |                      |
| 33 42 11 00-0610        | LF  |     | 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 57.10<br>8.04          | 11.43                |
| 33 42 11 00-0611        | LF  |     | 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 65.41<br>9.55          | 12.39                |
| 33 42 11 00-0612        | LF  |     | 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 73.10<br>10.85         | 13.33                |
| 33 42 11 00-0613        | LF  |     | 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 95.39<br>13.91         | 17.14                |
| 33 42 11 00-0614        | LF  |     | 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 122.81<br>17.34        | 22.51                |
| 33 42 11 00-0615        | LF  |     | 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 140.51<br>20.43        | 26.60                |
| 33 42 11 00-0616        | LF  |     | 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 158.47<br>23.03        | 30.70                |
| 33 42 11 00-0617        | LF  |     | 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 188.22<br>27.91        | 34.79                |
| 33 42 11 00-0618        | LF  |     | 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 205.67<br>30.54        | 36.83                |
| 33 42 11 00-0619        | LF  |     | 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 252.41<br>37.94        | 45.02                |
| 33 42 11 00-0620        | LF  |     | 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 305.72<br>40.54        | 65.48                |
| 33 42 11 00-0621        | LF  |     | 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 330.20<br>43.19        | 71.62                |
| <b>33 42 11 00-0622</b> |     |     | <b>12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)</b>                                   |                        |                      |
| 33 42 11 00-0623        | LF  |     | 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 112.08<br>14.53        | 17.14                |
| 33 42 11 00-0624        | LF  |     | 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 142.76<br>17.96        | 22.51                |
| 33 42 11 00-0625        | LF  |     | 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 163.86<br>21.12        | 26.60                |
| 33 42 11 00-0626        | LF  |     | 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 185.12<br>23.88        | 30.70                |
| 33 42 11 00-0627        | LF  |     | 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 218.23<br>28.50        | 34.79                |
| 33 42 11 00-0628        | LF  |     | 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 239.05<br>31.30        | 36.83                |
| 33 42 11 00-0629        | LF  |     | 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 289.04<br>37.97        | 45.02                |
| 33 42 11 00-0630        | LF  |     | 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 345.65<br>40.72        | 65.48                |
| 33 42 11 00-0631        | LF  |     | 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 373.42<br>43.50        | 71.62                |
| 33 42 11 00-0632        | LF  |     | 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 398.31<br>46.27        | 76.74                |
| 33 42 11 00-0633        | LF  |     | 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 423.17<br>49.04        | 81.85                |
| 33 42 11 00-0634        | LF  |     | 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>            | 448.76<br>51.80        | 86.97                |
| 33 42 11 00-0635        | LF  |     | 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>           | 475.56<br>54.26        | 92.09                |
| <b>33 42 11 00-0636</b> |     |     | <b>1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)</b>                                  |                        |                      |
| <b>33 42 11 00-0637</b> |     |     | <b>1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0636)</b>                                  |                        |                      |
| 33 42 11 00-0638        | LF  |     | 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>  | 18.68<br>1.78          | 5.71                 |
| 33 42 11 00-0639        | LF  |     | 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>  | 20.16<br>2.14          | 5.71                 |
| 33 42 11 00-0640        | LF  |     | 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>  | 23.45<br>2.35          | 7.15                 |
| 33 42 11 00-0641        | LF  |     | 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i>  | 25.33<br>2.81          | 7.15                 |
| 33 42 11 00-0642        | LF  |     | 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i> | 29.63<br>2.95          | 8.58                 |
| 33 42 11 00-0643        | LF  |     | 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....<br><i>For Bituminous Coated Pipe, Add</i> | 32.01<br>3.54          | 8.58                 |
| <b>33 42 11 00-0644</b> |     |     | <b>Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0636)</b>                      |                        |                      |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0645 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....          | 18.88                     | 5.71                    |
| <i>For Bituminous Coated Pipe, Add</i>   | 1.75                      |                         |
| 33 42 11 00-0646 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....          | 20.32                     | 5.71                    |
| <i>For Bituminous Coated Pipe, Add</i>   | 2.09                      |                         |
| 33 42 11 00-0647 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....          | 23.66                     | 7.15                    |
| <i>For Bituminous Coated Pipe, Add</i>   | 2.30                      |                         |
| 33 42 11 00-0648 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....          | 25.65                     | 7.15                    |
| <i>For Bituminous Coated Pipe, Add</i>   | 2.77                      |                         |
| 33 42 11 00-0649 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....         | 29.98                     | 8.58                    |
| <i>For Bituminous Coated Pipe, Add</i>   | 2.91                      |                         |
| 33 42 11 00-0650 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....         | 32.43                     | 8.58                    |
| <i>For Bituminous Coated Pipe, Add</i>   | 3.49                      |                         |
| <b>33 42 11 00-0651 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0636)</b>        |                           |                         |
| 33 42 11 00-0652 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....  | 10.97                     |                         |
| <i>For Bituminous Coated Pipe, Add</i>   | 2.47                      |                         |
| 33 42 11 00-0653 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....  | 14.52                     |                         |
| <i>For Bituminous Coated Pipe, Add</i>   | 3.27                      |                         |
| 33 42 11 00-0654 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... | 17.80                     |                         |
| <i>For Bituminous Coated Pipe, Add</i>   | 4.01                      |                         |
| 33 42 11 00-0655 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....      | 39.55                     |                         |
| <i>For Bituminous Coated Pipe, Add</i>   | 5.46                      |                         |
| 33 42 11 00-0656 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....                   | 8.87                      |                         |
| <i>For Bituminous Coated Pipe, Add</i>   | 1.24                      |                         |
| 33 42 11 00-0657 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....                   | 11.22                     |                         |
| <i>For Bituminous Coated Pipe, Add</i>   | 1.87                      |                         |
| <b>33 42 11 00-0658 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0456)</b>                |                           |                         |
| <b>33 42 11 00-0659 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)</b>      |                           |                         |
| 33 42 11 00-0660 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 57.78                     | 10.00                   |
| 33 42 11 00-0661 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 68.13                     | 10.48                   |
| 33 42 11 00-0662 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 78.81                     | 11.43                   |
| 33 42 11 00-0663 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 91.61                     | 12.39                   |
| 33 42 11 00-0664 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 102.20                    | 13.33                   |
| 33 42 11 00-0665 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 133.78                    | 17.14                   |
| 33 42 11 00-0666 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 172.20                    | 22.51                   |
| 33 42 11 00-0667 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 199.31                    | 26.60                   |
| 33 42 11 00-0668 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 223.69                    | 30.70                   |
| <b>33 42 11 00-0669 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)</b>      |                           |                         |
| 33 42 11 00-0670 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 65.79                     | 10.00                   |
| 33 42 11 00-0671 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 78.05                     | 10.48                   |
| 33 42 11 00-0672 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 90.69                     | 11.43                   |
| 33 42 11 00-0673 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 105.37                    | 12.39                   |
| 33 42 11 00-0674 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 118.18                    | 13.33                   |
| 33 42 11 00-0675 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 153.40                    | 17.14                   |
| 33 42 11 00-0676 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 195.89                    | 22.51                   |
| 33 42 11 00-0677 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 226.49                    | 26.60                   |
| 33 42 11 00-0678 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 254.71                    | 30.70                   |
| 33 42 11 00-0679 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 308.42                    | 34.79                   |
| <b>33 42 11 00-0680 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)</b>      |                           |                         |
| 33 42 11 00-0681 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 115.46                    | 11.43                   |
| 33 42 11 00-0682 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 134.29                    | 12.39                   |
| 33 42 11 00-0683 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 151.06                    | 13.33                   |
| 33 42 11 00-0684 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 194.48                    | 17.14                   |
| 33 42 11 00-0685 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 235.11                    | 22.51                   |
| 33 42 11 00-0686 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 283.96                    | 26.60                   |
| 33 42 11 00-0687 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 320.29                    | 30.70                   |
| 33 42 11 00-0688 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 383.25                    | 34.79                   |
| 33 42 11 00-0689 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 418.79                    | 36.83                   |
| 33 42 11 00-0690 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 512.91                    | 45.02                   |
| <b>33 42 11 00-0691 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)</b>      |                           |                         |
| 33 42 11 00-0692 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 290.21                    | 22.51                   |
| 33 42 11 00-0693 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 336.30                    | 26.60                   |
| 33 42 11 00-0694 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 379.75                    | 30.70                   |
| 33 42 11 00-0695 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 449.86                    | 34.79                   |
| 33 42 11 00-0696 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 492.94                    | 36.83                   |
| 33 42 11 00-0697 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 594.35                    | 45.02                   |
| 33 42 11 00-0698 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....                      | 672.93                    | 65.48                   |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 33 42 11 00-0699 |       |     |     | 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0456)</small>                  |                        |                      |
| 33 42 11 00-0700 |       |     |     | 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0699)</small>        |                        |                      |
| 33 42 11 00-0701 | LF    |     |     | 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 217.68                 | 22.51                |
| 33 42 11 00-0702 | LF    |     |     | 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 251.75                 | 26.60                |
| 33 42 11 00-0703 | LF    |     |     | 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 282.48                 | 30.70                |
| 33 42 11 00-0704 | LF    |     |     | 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 341.86                 | 34.79                |
| 33 42 11 00-0705 | LF    |     |     | 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 372.23                 | 36.83                |
| 33 42 11 00-0706 | LF    |     |     | 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 473.93                 | 45.02                |
| 33 42 11 00-0707 | LF    |     |     | 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 541.11                 | 65.48                |
| 33 42 11 00-0708 | LF    |     |     | 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 579.23                 | 71.62                |
| 33 42 11 00-0709 | LF    |     |     | 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 614.65                 | 76.74                |
| 33 42 11 00-0710 | LF    |     |     | 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 650.11                 | 81.85                |
| 33 42 11 00-0711 | LF    |     |     | 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 686.17                 | 86.97                |
| 33 42 11 00-0712 | LF    |     |     | 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 725.28                 | 92.09                |
| 33 42 11 00-0713 |       |     |     | 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0699)</small>        |                        |                      |
| 33 42 11 00-0714 | LF    |     |     | 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 384.68                 | 34.79                |
| 33 42 11 00-0715 | LF    |     |     | 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 419.56                 | 36.83                |
| 33 42 11 00-0716 | LF    |     |     | 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 526.07                 | 45.02                |
| 33 42 11 00-0717 | LF    |     |     | 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 597.81                 | 65.48                |
| 33 42 11 00-0718 | LF    |     |     | 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 640.57                 | 71.62                |
| 33 42 11 00-0719 | LF    |     |     | 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 680.79                 | 76.74                |
| 33 42 11 00-0720 | LF    |     |     | 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 720.75                 | 81.85                |
| 33 42 11 00-0721 | LF    |     |     | 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 761.41                 | 86.97                |
| 33 42 11 00-0722 | LF    |     |     | 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 805.19                 | 92.09                |
| 33 42 11 00-0723 | LF    |     |     | 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 851.22                 | 102.32               |
| 33 42 11 00-0724 | LF    |     |     | 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 896.28                 | 112.55               |
| 33 42 11 00-0725 |       |     |     | 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0699)</small>        |                        |                      |
| 33 42 11 00-0726 | LF    |     |     | 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 527.26                 | 36.83                |
| 33 42 11 00-0727 | LF    |     |     | 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 645.87                 | 45.02                |
| 33 42 11 00-0728 | LF    |     |     | 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 728.00                 | 65.48                |
| 33 42 11 00-0729 | LF    |     |     | 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 781.20                 | 71.62                |
| 33 42 11 00-0730 | LF    |     |     | 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 831.80                 | 76.74                |
| 33 42 11 00-0731 | LF    |     |     | 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 882.21                 | 81.85                |
| 33 42 11 00-0732 | LF    |     |     | 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 933.40                 | 86.97                |
| 33 42 11 00-0733 | LF    |     |     | 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 987.55                 | 92.09                |
| 33 42 11 00-0734 | LF    |     |     | 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,043.88               | 102.32               |
| 33 42 11 00-0735 | LF    |     |     | 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,099.53               | 112.55               |
| 33 42 11 00-0736 | LF    |     |     | 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,154.36               | 122.78               |
| 33 42 11 00-0737 |       |     |     | 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0699)</small>        |                        |                      |
| 33 42 11 00-0738 | LF    |     |     | 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 846.63                 | 65.48                |
| 33 42 11 00-0739 | LF    |     |     | 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 909.49                 | 71.62                |
| 33 42 11 00-0740 | LF    |     |     | 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 969.85                 | 76.74                |
| 33 42 11 00-0741 | LF    |     |     | 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 1,029.95               | 81.85                |
| 33 42 11 00-0742 | LF    |     |     | 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                   | 1,090.91               | 86.97                |
| 33 42 11 00-0743 | LF    |     |     | 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,154.79               | 92.09                |
| 33 42 11 00-0744 | LF    |     |     | 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,220.87               | 102.32               |
| 33 42 11 00-0745 | LF    |     |     | 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,286.20               | 112.55               |
| 33 42 11 00-0746 | LF    |     |     | 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,350.76               | 122.78               |
| 33 42 11 00-0747 | LF    |     |     | 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,416.98               | 133.02               |
| 33 42 11 00-0748 | LF    |     |     | 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,486.04               | 143.25               |
| 33 42 11 00-0749 | LF    |     |     | 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....                                  | 1,558.25               | 153.48               |
| 33 42 11 00-0750 |       |     |     | 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0456)</small>           |                        |                      |
| 33 42 11 00-0751 |       |     |     | 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0750)</small> |                        |                      |
| 33 42 11 00-0752 | LF    |     |     | 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 273.25                 | 30.70                |
| 33 42 11 00-0753 | LF    |     |     | 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 331.69                 | 34.79                |
| 33 42 11 00-0754 | LF    |     |     | 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 360.59                 | 36.83                |
| 33 42 11 00-0755 | LF    |     |     | 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 452.30                 | 45.02                |
| 33 42 11 00-0756 | LF    |     |     | 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 517.70                 | 65.48                |
| 33 42 11 00-0757 | LF    |     |     | 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 553.98                 | 71.62                |
| 33 42 11 00-0758 | LF    |     |     | 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 587.31                 | 76.74                |
| 33 42 11 00-0759 | LF    |     |     | 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 620.56                 | 81.85                |
| 33 42 11 00-0760 | LF    |     |     | 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 654.89                 | 86.97                |
| 33 42 11 00-0761 | LF    |     |     | 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                           | 692.71                 | 92.09                |
| 33 42 11 00-0762 |       |     |     | 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0750)</small>   |                        |                      |
| 33 42 11 00-0763 | LF    |     |     | 54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 382.56                 | 34.79                |
| 33 42 11 00-0764 | LF    |     |     | 60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                            | 417.24                 | 36.83                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-0765 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 514.08                    | 45.02                   |
| 33 42 11 00-0766 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 584.46                    | 65.48                   |
| 33 42 11 00-0767 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 626.78                    | 71.62                   |
| 33 42 11 00-0768 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 665.77                    | 76.74                   |
| 33 42 11 00-0769 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 701.87                    | 81.85                   |
| 33 42 11 00-0770 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 744.44                    | 86.97                   |
| 33 42 11 00-0771 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 787.00                    | 92.09                   |
| 33 42 11 00-0772 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 831.58                    | 102.32                  |
| 33 42 11 00-0773 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 876.50                    | 112.55                  |
| <b>33 42 11 00-0774 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b><br><small>(33 42 11 00-0750)</small>      |                           |                         |
| 33 42 11 00-0775 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 530.79                    | 36.83                   |
| 33 42 11 00-0776 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 639.71                    | 45.02                   |
| 33 42 11 00-0777 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 721.95                    | 65.48                   |
| 33 42 11 00-0778 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 774.70                    | 71.62                   |
| 33 42 11 00-0779 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 824.35                    | 76.74                   |
| 33 42 11 00-0780 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 874.62                    | 81.85                   |
| 33 42 11 00-0781 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 925.31                    | 86.97                   |
| 33 42 11 00-0782 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 978.66                    | 92.09                   |
| 33 42 11 00-0783 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,031.84                  | 102.32                  |
| 33 42 11 00-0784 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,090.30                  | 112.55                  |
| 33 42 11 00-0785 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,144.44                  | 122.78                  |
| <b>33 42 11 00-0786 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b><br><small>(33 42 11 00-0750)</small>      |                           |                         |
| 33 42 11 00-0787 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 846.58                    | 65.48                   |
| 33 42 11 00-0788 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 910.92                    | 71.62                   |
| 33 42 11 00-0789 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 971.48                    | 76.74                   |
| 33 42 11 00-0790 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 1,031.56                  | 81.85                   |
| 33 42 11 00-0791 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                      | 1,092.81                  | 86.97                   |
| 33 42 11 00-0792 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,156.58                  | 92.09                   |
| 33 42 11 00-0793 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,222.95                  | 102.32                  |
| 33 42 11 00-0794 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,288.87                  | 112.55                  |
| 33 42 11 00-0795 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,353.29                  | 122.78                  |
| 33 42 11 00-0796 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,435.64                  | 133.02                  |
| 33 42 11 00-0797 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,508.97                  | 143.25                  |
| 33 42 11 00-0798 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....                                     | 1,587.44                  | 153.48                  |
| <b>33 42 11 00-0799 Galvanized Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-0455)</small>                                      |                           |                         |
| <b>33 42 11 00-0800 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-0799)</small>           |                           |                         |
| <b>33 42 11 00-0801 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-0800)</small> |                           |                         |
| 33 42 11 00-0802 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 41.81                     | 10.48                   |
| For Bituminous Coated Pipe, Add   | 5.05                      |                         |
| For Bituminous Coated And 25% Paved, Add  | 12.21                     |                         |
| For Smooth-Flo, Add   | 20.15                     |                         |
| 33 42 11 00-0803 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 46.54                     | 11.43                   |
| For Bituminous Coated Pipe, Add   | 6.03                      |                         |
| For Bituminous Coated And 25% Paved, Add  | 14.59                     |                         |
| For Smooth-Flo, Add   | 24.06                     |                         |
| 33 42 11 00-0804 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 53.24                     | 12.39                   |
| For Bituminous Coated Pipe, Add   | 7.26                      |                         |
| For Bituminous Coated And 25% Paved, Add  | 17.56                     |                         |
| For Smooth-Flo, Add   | 28.97                     |                         |
| 33 42 11 00-0805 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 59.74                     | 13.33                   |
| For Bituminous Coated Pipe, Add   | 8.37                      |                         |
| For Bituminous Coated And 25% Paved, Add  | 20.23                     |                         |
| For Smooth-Flo, Add   | 33.37                     |                         |
| 33 42 11 00-0806 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 77.86                     | 17.14                   |
| For Bituminous Coated Pipe, Add   | 10.63                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 25.69                     |                         |
| For Smooth-Flo, Add   | 42.38                     |                         |
| 33 42 11 00-0807 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 102.79                    | 22.51                   |
| For Bituminous Coated Pipe, Add   | 13.70                     |                         |
| For Bituminous Coated And 25% Paved, Add  | 33.13                     |                         |
| For Smooth-Flo, Add   | 54.65                     |                         |
| <b>33 42 11 00-0808 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-0800)</small> |                           |                         |
| 33 42 11 00-0809 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                          | 45.90                     | 10.48                   |
| For Bituminous Coated Pipe, Add   | 5.24                      |                         |
| For Bituminous Coated And 25% Paved, Add  | 12.26                     |                         |
| For Smooth-Flo, Add   | 20.11                     |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST            | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|-----------------------------------|----------------------|
| 33 42 11 00-0810        | LF  |     | 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 51.55<br>6.29<br>14.71<br>24.12   | 11.43                |
| 33 42 11 00-0811        | LF  |     | 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 58.83<br>7.47<br>17.48<br>28.68   | 12.39                |
| 33 42 11 00-0812        | LF  |     | 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 66.21<br>8.62<br>20.16<br>33.07   | 13.33                |
| 33 42 11 00-0813        | LF  |     | 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 85.94<br>10.91<br>25.53<br>41.88  | 17.14                |
| 33 42 11 00-0814        | LF  |     | 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 112.40<br>13.90<br>32.52<br>53.94 | 22.51                |
| 33 42 11 00-0815        | LF  |     | 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 129.11<br>16.56<br>38.74<br>63.54 | 26.60                |
| <b>33 42 11 00-0816</b> |     |     | <b>12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-0800)</small>  |                                   |                      |
| 33 42 11 00-0817        | LF  |     | 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 67.26<br>6.80<br>15.13<br>23.27   | 12.28                |
| 33 42 11 00-0818        | LF  |     | 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 76.78<br>8.07<br>17.95<br>27.60   | 13.31                |
| 33 42 11 00-0819        | LF  |     | 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 86.22<br>9.25<br>20.59<br>31.65   | 14.32                |
| 33 42 11 00-0820        | LF  |     | 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 111.40<br>11.65<br>25.92<br>39.86 | 18.42                |
| 33 42 11 00-0821        | LF  |     | 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 132.00<br>14.58<br>32.44<br>49.88 | 22.51                |
| 33 42 11 00-0822        | LF  |     | 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 151.73<br>17.24<br>38.36<br>58.99 | 26.60                |
| 33 42 11 00-0823        | LF  |     | 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 176.92<br>20.44<br>45.49<br>69.95 | 30.70                |
| 33 42 11 00-0824        | LF  |     | 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 197.90<br>22.57<br>50.24<br>77.25 | 34.79                |
| <b>33 42 11 00-0825</b> |     |     | <b>10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-0800)</small>  |                                   |                      |
| 33 42 11 00-0826        | LF  |     | 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 150.45<br>17.56<br>36.97<br>46.63 | 22.51                |
| 33 42 11 00-0827        | LF  |     | 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 173.24<br>20.72<br>43.61<br>55.00 | 26.60                |
| 33 42 11 00-0828        | LF  |     | 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 201.31<br>24.38<br>51.32<br>64.72 | 30.70                |
| 33 42 11 00-0829        | LF  |     | 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 225.46<br>27.03<br>56.90<br>71.75 | 34.79                |
| 33 42 11 00-0830        | LF  |     | 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 246.97<br>29.67<br>62.46<br>78.77 | 36.83                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 33 42 11 00-0831 |     |     | 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>           |                        |                      |
| 33 42 11 00-0832 |     |     | 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small> |                        |                      |
| 33 42 11 00-0833 | LF  |     | 60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 197.63                 | 34.79                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 26.04                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 79.17                  |                      |
|                  |     |     | For Smooth-Flo, Add  | 88.55                  |                      |
| 33 42 11 00-0834 | LF  |     | 66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 215.97                 | 36.83                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 28.50                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 86.65                  |                      |
|                  |     |     | For Smooth-Flo, Add  | 96.91                  |                      |
| 33 42 11 00-0835 | LF  |     | 73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 267.15                 | 45.02                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 35.80                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 108.83                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 121.71                 |                      |
| 33 42 11 00-0836 | LF  |     | 81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 322.11                 | 65.48                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 38.38                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 116.67                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 130.49                 |                      |
| 33 42 11 00-0837 | LF  |     | 87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 348.69                 | 71.62                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 41.09                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 124.91                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 139.70                 |                      |
| 33 42 11 00-0838 | LF  |     | 95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 372.54                 | 76.74                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 43.81                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 133.19                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 148.96                 |                      |
| 33 42 11 00-0839 | LF  |     | 103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 396.34                 | 81.85                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 46.52                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 141.43                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 158.18                 |                      |
| 33 42 11 00-0840 | LF  |     | 112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 420.82                 | 86.97                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 49.23                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 149.65                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 167.37                 |                      |
| 33 42 11 00-0841 |     |     | 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small> |                        |                      |
| 33 42 11 00-0842 | LF  |     | 66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 258.38                 | 36.83                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 36.98                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 96.90                  |                      |
|                  |     |     | For Smooth-Flo, Add  | 114.65                 |                      |
| 33 42 11 00-0843 | LF  |     | 73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 314.19                 | 45.02                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 45.21                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 118.44                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 140.14                 |                      |
| 33 42 11 00-0844 | LF  |     | 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 373.32                 | 65.48                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 48.62                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 127.38                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 150.72                 |                      |
| 33 42 11 00-0845 | LF  |     | 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 404.04                 | 71.62                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 52.16                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 136.65                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 161.69                 |                      |
| 33 42 11 00-0846 | LF  |     | 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                   | 432.03                 | 76.74                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 55.71                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 145.96                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 172.70                 |                      |
| 33 42 11 00-0847 | LF  |     | 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 459.99                 | 81.85                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 59.25                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 155.25                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 183.69                 |                      |
| 33 42 11 00-0848 | LF  |     | 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 488.61                 | 86.97                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 62.78                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 164.49                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 194.63                 |                      |
| 33 42 11 00-0849 | LF  |     | 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 520.24                 | 92.09                |
|                  |     |     | For Bituminous Coated Pipe, Add  | 66.35                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 173.84                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 205.69                 |                      |
| 33 42 11 00-0850 | LF  |     | 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 554.12                 | 102.32               |
|                  |     |     | For Bituminous Coated Pipe, Add  | 69.90                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 183.13                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 216.68                 |                      |
| 33 42 11 00-0851 | LF  |     | 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....                  | 589.34                 | 112.55               |
|                  |     |     | For Bituminous Coated Pipe, Add  | 73.79                  |                      |
|                  |     |     | For Bituminous Coated And 25% Paved, Add   | 193.34                 |                      |
|                  |     |     | For Smooth-Flo, Add  | 228.76                 |                      |
| 33 42 11 00-0852 |     |     | 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small> |                        |                      |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST              | DEMOLITION UNIT COST |
|------------------|-----|-----|---|-------------------------------------|----------------------|
| 33 42 11 00-0853 | LF  |     | 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>         | 420.90<br>58.14<br>138.36<br>150.28 | 65.48                |
| 33 42 11 00-0854 | LF  |     | 87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>         | 455.56<br>62.46<br>148.66<br>161.46 | 71.62                |
| 33 42 11 00-0855 | LF  |     | 95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>         | 487.46<br>66.80<br>158.97<br>172.67 | 76.74                |
| 33 42 11 00-0856 | LF  |     | 103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>        | 519.25<br>71.11<br>169.23<br>183.81 | 81.85                |
| 33 42 11 00-0857 | LF  |     | 112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>        | 551.80<br>75.42<br>179.50<br>194.97 | 86.97                |
| 33 42 11 00-0858 | LF  |     | 117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>        | 587.30<br>79.76<br>189.84<br>206.19 | 92.09                |
| 33 42 11 00-0859 | LF  |     | 128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>        | 625.09<br>84.09<br>200.13<br>217.37 | 102.32               |
| 33 42 11 00-0860 | LF  |     | 137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>        | 663.91<br>88.71<br>211.12<br>229.31 | 112.55               |
| 33 42 11 00-0861 | LF  |     | 142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>        | 706.07<br>94.25<br>224.31<br>243.63 | 122.78               |
| 33 42 11 00-0862 |     |     | 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>   |                                     |                      |
| 33 42 11 00-0863 |     |     | 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0862)</small>   |                                     |                      |
| 33 42 11 00-0864 | LF  |     | 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 377.99<br>49.55<br>120.91<br>153.87 | 65.48                |
| 33 42 11 00-0865 | LF  |     | 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 408.25<br>53.00<br>129.32<br>164.57 | 71.62                |
| 33 42 11 00-0866 | LF  |     | 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 435.51<br>56.41<br>137.63<br>175.14 | 76.74                |
| 33 42 11 00-0867 | LF  |     | 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 462.79<br>59.81<br>145.95<br>185.72 | 81.85                |
| 33 42 11 00-0868 | LF  |     | 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 490.90<br>63.24<br>154.31<br>196.37 | 86.97                |
| 33 42 11 00-0869 | LF  |     | 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 522.15<br>66.73<br>162.83<br>207.21 | 92.09                |
| 33 42 11 00-0870 | LF  |     | 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 555.65<br>70.20<br>171.29<br>217.98 | 102.32               |
| 33 42 11 00-0871 | LF  |     | 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i> | 593.13<br>74.55<br>181.90<br>231.48 | 112.55               |
| 33 42 11 00-0872 |     |     | 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0862)</small>   |                                     |                      |
| 33 42 11 00-0873 | LF  |     | 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....<br><i>For Bituminous Coated Pipe, Add</i><br><i>For Bituminous Coated And 25% Paved, Add</i><br><i>For Smooth-Flo, Add</i>  | 430.66<br>60.09<br>135.80<br>147.52 | 65.48                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0874 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....  | 465.13                    | 71.62                   |
| For Bituminous Coated Pipe, Add  | 64.38                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 145.49                    |                         |
| For Smooth-Flo, Add  | 158.04                    |                         |
| 33 42 11 00-0875 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch .....  | 496.68                    | 76.74                   |
| For Bituminous Coated Pipe, Add  | 68.64                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 155.13                    |                         |
| For Smooth-Flo, Add  | 168.51                    |                         |
| 33 42 11 00-0876 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... | 528.36                    | 81.85                   |
| For Bituminous Coated Pipe, Add  | 72.93                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 164.82                    |                         |
| For Smooth-Flo, Add  | 179.04                    |                         |
| 33 42 11 00-0877 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... | 560.03                    | 86.97                   |
| For Bituminous Coated Pipe, Add  | 77.07                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 174.17                    |                         |
| For Smooth-Flo, Add  | 189.20                    |                         |
| 33 42 11 00-0878 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... | 596.14                    | 92.09                   |
| For Bituminous Coated Pipe, Add  | 81.53                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 184.26                    |                         |
| For Smooth-Flo, Add  | 200.16                    |                         |
| 33 42 11 00-0879 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... | 634.00                    | 102.32                  |
| For Bituminous Coated Pipe, Add  | 85.87                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 194.07                    |                         |
| For Smooth-Flo, Add  | 210.82                    |                         |
| 33 42 11 00-0880 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... | 675.81                    | 112.55                  |
| For Bituminous Coated Pipe, Add  | 91.09                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 205.85                    |                         |
| For Smooth-Flo, Add  | 223.62                    |                         |
| 33 42 11 00-0881 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... | 714.87                    | 122.78                  |
| For Bituminous Coated Pipe, Add  | 96.01                     |                         |
| For Bituminous Coated And 25% Paved, Add   | 216.98                    |                         |
| For Smooth-Flo, Add  | 235.70                    |                         |
| <b>33 42 11 00-0882 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0799)</b>       |                           |                         |
| <b>33 42 11 00-0883 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b>                |                           |                         |
| (33 42 11 00-0882)   |                           |                         |
| 33 42 11 00-0884 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 68.20                     | 10.48                   |
| 33 42 11 00-0885 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 78.08                     | 11.43                   |
| 33 42 11 00-0886 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 91.30                     | 12.39                   |
| 33 42 11 00-0887 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 103.66                    | 13.33                   |
| 33 42 11 00-0888 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 133.81                    | 17.14                   |
| 33 42 11 00-0889 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 175.47                    | 22.51                   |
| <b>33 42 11 00-0890 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b>                |                           |                         |
| (33 42 11 00-0882)   |                           |                         |
| 33 42 11 00-0891 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 77.62                     | 10.48                   |
| 33 42 11 00-0892 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 89.59                     | 11.43                   |
| 33 42 11 00-0893 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 104.15                    | 12.39                   |
| 33 42 11 00-0894 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 118.59                    | 13.33                   |
| 33 42 11 00-0895 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 152.38                    | 17.14                   |
| 33 42 11 00-0896 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 197.56                    | 22.51                   |
| 33 42 11 00-0897 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 230.77                    | 26.60                   |
| <b>33 42 11 00-0898 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b>                |                           |                         |
| (33 42 11 00-0882)   |                           |                         |
| 33 42 11 00-0899 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 117.81                    | 11.43                   |
| 33 42 11 00-0900 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 137.57                    | 12.39                   |
| 33 42 11 00-0901 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 156.44                    | 13.33                   |
| 33 42 11 00-0902 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 199.61                    | 17.14                   |
| 33 42 11 00-0903 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 254.61                    | 22.51                   |
| 33 42 11 00-0904 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 297.20                    | 26.60                   |
| 33 42 11 00-0905 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 350.62                    | 30.70                   |
| 33 42 11 00-0906 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 389.19                    | 34.79                   |
| <b>33 42 11 00-0907 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b>                |                           |                         |
| (33 42 11 00-0882)   |                           |                         |
| 33 42 11 00-0908 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 299.36                    | 22.51                   |
| 33 42 11 00-0909 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 349.41                    | 26.60                   |
| 33 42 11 00-0910 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 409.81                    | 30.70                   |
| 33 42 11 00-0911 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 456.11                    | 34.79                   |
| 33 42 11 00-0912 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....    | 499.68                    | 36.83                   |
| <b>33 42 11 00-0913 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0799)</b>             |                           |                         |
| <b>33 42 11 00-0914 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)</b>   |                           |                         |
| 33 42 11 00-0915 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....          | 393.09                    | 34.79                   |
| 33 42 11 00-0916 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....          | 429.45                    | 36.83                   |
| 33 42 11 00-0917 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....          | 537.55                    | 45.02                   |



|  |  |                              |              |           |
|--|--|------------------------------|--------------|-----------|
|  |  | <b>Utilities</b>             | <b>33</b>    | <b>CS</b> |
|  |  | <b>Stormwater Utilities</b>  | <b>33 40</b> |           |
|  |  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-0918 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 611.59                    | 65.48                   |
| 33 42 11 00-0919 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 658.26                    | 71.62                   |
| 33 42 11 00-0920 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 702.27                    | 76.74                   |
| 33 42 11 00-0921 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 746.10                    | 81.85                   |
| 33 42 11 00-0922 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 790.75                    | 86.97                   |
| <b>33 42 11 00-0923 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0913)</small>            |                           |                         |
| 33 42 11 00-0924 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 537.35                    | 36.83                   |
| 33 42 11 00-0925 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 657.66                    | 45.02                   |
| 33 42 11 00-0926 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 742.31                    | 65.48                   |
| 33 42 11 00-0927 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 799.40                    | 71.62                   |
| 33 42 11 00-0928 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 853.89                    | 76.74                   |
| 33 42 11 00-0929 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 908.31                    | 81.85                   |
| 33 42 11 00-0930 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 963.32                    | 86.97                   |
| 33 42 11 00-0931 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,021.52                  | 92.09                   |
| 33 42 11 00-0932 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,081.86                  | 102.32                  |
| 33 42 11 00-0933 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,146.19                  | 112.55                  |
| <b>33 42 11 00-0934 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0913)</small>            |                           |                         |
| 33 42 11 00-0935 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 860.91                    | 65.48                   |
| 33 42 11 00-0936 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 927.80                    | 71.62                   |
| 33 42 11 00-0937 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                  | 992.08                    | 76.74                   |
| 33 42 11 00-0938 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,056.03                  | 81.85                   |
| 33 42 11 00-0939 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,120.81                  | 86.97                   |
| 33 42 11 00-0940 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,188.71                  | 92.09                   |
| 33 42 11 00-0941 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,258.82                  | 102.32                  |
| 33 42 11 00-0942 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,332.05                  | 112.55                  |
| 33 42 11 00-0943 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                                 | 1,415.56                  | 122.78                  |
| <b>33 42 11 00-0944 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>               |                           |                         |
| <b>33 42 11 00-0945 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0944)</small>     |                           |                         |
| 33 42 11 00-0946 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                           | 731.65                    | 65.48                   |
| 33 42 11 00-0947 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                           | 786.07                    | 71.62                   |
| 33 42 11 00-0948 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                           | 837.23                    | 76.74                   |
| 33 42 11 00-0949 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 888.33                    | 81.85                   |
| 33 42 11 00-0950 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 940.47                    | 86.97                   |
| 33 42 11 00-0951 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 996.18                    | 92.09                   |
| 33 42 11 00-0952 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,053.96                  | 102.32                  |
| 33 42 11 00-0953 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,121.89                  | 112.55                  |
| <b>33 42 11 00-0954 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0944)</small>     |                           |                         |
| 33 42 11 00-0955 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                           | 858.14                    | 65.48                   |
| 33 42 11 00-0956 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                           | 922.60                    | 71.62                   |
| 33 42 11 00-0957 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                           | 984.02                    | 76.74                   |
| 33 42 11 00-0958 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,045.73                  | 81.85                   |
| 33 42 11 00-0959 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,106.50                  | 86.97                   |
| 33 42 11 00-0960 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,173.81                  | 92.09                   |
| 33 42 11 00-0961 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,242.11                  | 102.32                  |
| 33 42 11 00-0962 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,320.56                  | 112.55                  |
| 33 42 11 00-0963 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....                          | 1,393.92                  | 122.78                  |
| <b>33 42 11 00-0964 Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-0455)</small>                                      |                           |                         |
| <b>33 42 11 00-0965 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-0964)</small>           |                           |                         |
| <b>33 42 11 00-0966 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-0965)</small> |                           |                         |
| 33 42 11 00-0967 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 39.38                     | 10.00                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 7.51                      |                         |
| 33 42 11 00-0968 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 44.95                     | 10.48                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 9.47                      |                         |
| 33 42 11 00-0969 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 50.71                     | 11.43                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 11.47                     |                         |
| 33 42 11 00-0970 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 58.02                     | 12.39                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 13.72                     |                         |
| 33 42 11 00-0971 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 64.37                     | 13.33                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 15.45                     |                         |
| 33 42 11 00-0972 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 84.79                     | 17.14                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 20.04                     |                         |
| 33 42 11 00-0973 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 110.33                    | 22.51                   |
| <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  |                           |                         |
|  | 25.28                     |                         |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-0974 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 126.12<br>29.91           | 26.60                   |
| 33 42 11 00-0975 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 141.71<br>33.51           | 30.70                   |
| <b>33 42 11 00-0976 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> (33 42 11 00-0965)   |                           |                         |
| 33 42 11 00-0977 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 43.44<br>7.14             | 10.00                   |
| 33 42 11 00-0978 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 49.96<br>8.96             | 10.48                   |
| 33 42 11 00-0979 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 56.68<br>10.83            | 11.43                   |
| 33 42 11 00-0980 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 64.95<br>12.88            | 12.39                   |
| 33 42 11 00-0981 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 72.41<br>14.58            | 13.33                   |
| 33 42 11 00-0982 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 94.63<br>18.73            | 17.14                   |
| 33 42 11 00-0983 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 122.24<br>23.46           | 22.51                   |
| 33 42 11 00-0984 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 139.82<br>27.63           | 26.60                   |
| 33 42 11 00-0985 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 157.33<br>31.05           | 30.70                   |
| 33 42 11 00-0986 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 188.60<br>38.17           | 34.79                   |
| <b>33 42 11 00-0987 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> (33 42 11 00-0965)   |                           |                         |
| 33 42 11 00-0988 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 69.24<br>10.09            | 11.43                   |
| 33 42 11 00-0989 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 79.61<br>11.94            | 12.39                   |
| 33 42 11 00-0990 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 89.06<br>13.53            | 13.33                   |
| 33 42 11 00-0991 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 115.41<br>17.25           | 17.14                   |
| 33 42 11 00-0992 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 147.31<br>21.41           | 22.51                   |
| 33 42 11 00-0993 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 168.88<br>25.11           | 26.60                   |
| 33 42 11 00-0994 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 190.47<br>28.32           | 30.70                   |
| 33 42 11 00-0995 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 226.46<br>34.20           | 34.79                   |
| 33 42 11 00-0996 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 247.36<br>37.39           | 36.83                   |
| 33 42 11 00-0997 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 302.02<br>45.98           | 45.02                   |
| <b>33 42 11 00-0998 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> (33 42 11 00-0965)   |                           |                         |
| 33 42 11 00-0999 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 169.86<br>23.45           | 22.51                   |
| 33 42 11 00-1000 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 195.25<br>27.49           | 26.60                   |
| 33 42 11 00-1001 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 220.41<br>31.04           | 30.70                   |
| 33 42 11 00-1002 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 260.02<br>36.98           | 34.79                   |
| 33 42 11 00-1003 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 284.72<br>40.56           | 36.83                   |
| 33 42 11 00-1004 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 343.05<br>48.94           | 45.02                   |
| 33 42 11 00-1005 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 403.49<br>52.47           | 65.48                   |
| <b>33 42 11 00-1006 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> (33 42 11 00-0964)   |                           |                         |
| <b>33 42 11 00-1007 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> (33 42 11 00-1006)   |                           |                         |
| 33 42 11 00-1008 LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>       | 128.06<br>28.11           | 22.51                   |
| 33 42 11 00-1009 LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>       | 146.41<br>33.01           | 26.60                   |
| 33 42 11 00-1010 LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>       | 164.52<br>37.02           | 30.70                   |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>33</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR                   | CSI | UOM  | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|------|---|------------------------|----------------------|
| 33 42 11 00-1011        | LF  | 54"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 196.60<br>45.22        | 34.79                |
| 33 42 11 00-1012        | LF  | 60"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 214.21<br>49.26        | 36.83                |
| 33 42 11 00-1013        | LF  | 66"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 268.95<br>63.28        | 45.02                |
| 33 42 11 00-1014        | LF  | 72"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 322.91<br>67.44        | 65.48                |
| 33 42 11 00-1015        | LF  | 78"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 347.88<br>71.62        | 71.62                |
| 33 42 11 00-1016        | LF  | 84"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 370.10<br>75.82        | 76.74                |
| 33 42 11 00-1017        | LF  | 90"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 392.32<br>80.01        | 81.85                |
| 33 42 11 00-1018        | LF  | 96"  | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 415.23<br>84.19        | 86.97                |
| 33 42 11 00-1019        | LF  | 102" | 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 441.08<br>88.41        | 92.09                |
| <b>33 42 11 00-1020</b> |     |      | <b>14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b><br><small>(33 42 11 00-1009)</small>          |                        |                      |
| 33 42 11 00-1021        | LF  | 54"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 216.96<br>39.18        | 34.79                |
| 33 42 11 00-1022        | LF  | 60"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 236.72<br>42.77        | 36.83                |
| 33 42 11 00-1023        | LF  | 66"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 293.71<br>53.85        | 45.02                |
| 33 42 11 00-1024        | LF  | 72"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 349.90<br>57.56        | 65.48                |
| 33 42 11 00-1025        | LF  | 78"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 377.05<br>61.26        | 71.62                |
| 33 42 11 00-1026        | LF  | 84"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 401.56<br>65.00        | 76.74                |
| 33 42 11 00-1027        | LF  | 90"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 425.92<br>68.70        | 81.85                |
| 33 42 11 00-1028        | LF  | 96"  | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 451.02<br>72.40        | 86.97                |
| 33 42 11 00-1029        | LF  | 102" | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 479.05<br>76.13        | 92.09                |
| 33 42 11 00-1030        | LF  | 108" | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 509.41<br>79.85        | 102.32               |
| 33 42 11 00-1031        | LF  | 114" | 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 539.12<br>83.51        | 112.55               |
| <b>33 42 11 00-1032</b> |     |      | <b>12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b><br><small>(33 42 11 00-1009)</small>          |                        |                      |
| 33 42 11 00-1033        | LF  | 60"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 286.74<br>57.37        | 36.83                |
| 33 42 11 00-1034        | LF  | 66"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 349.10<br>70.19        | 45.02                |
| 33 42 11 00-1035        | LF  | 72"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 410.11<br>75.29        | 65.48                |
| 33 42 11 00-1036        | LF  | 78"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 442.16<br>80.41        | 71.62                |
| 33 42 11 00-1037        | LF  | 84"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 471.49<br>85.54        | 76.74                |
| 33 42 11 00-1038        | LF  | 90"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 500.76<br>90.66        | 81.85                |
| 33 42 11 00-1039        | LF  | 96"  | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 530.71<br>95.77        | 86.97                |
| 33 42 11 00-1040        | LF  | 102" | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 563.60<br>100.91       | 92.09                |
| 33 42 11 00-1041        | LF  | 108" | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 598.79<br>106.03       | 102.32               |
| 33 42 11 00-1042        | LF  | 114" | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 633.40<br>111.10       | 112.55               |
| 33 42 11 00-1043        | LF  | 120" | 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 666.95<br>116.24       | 122.78               |
| <b>33 42 11 00-1044</b> |     |      | <b>10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b><br><small>(33 42 11 00-1009)</small>          |                        |                      |
| 33 42 11 00-1045        | LF  | 72"  | 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 466.26<br>92.41        | 65.48                |
| 33 42 11 00-1046        | LF  | 78"  | 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 502.83<br>98.88        | 71.62                |
| 33 42 11 00-1047        | LF  | 84"  | 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 536.80<br>105.41       | 76.74                |
| 33 42 11 00-1048        | LF  | 90"  | 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 570.62<br>111.90       | 81.85                |
| 33 42 11 00-1049        | LF  | 96"  | 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 605.24<br>118.40       | 86.97                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 33 42 11 00-1050        | LF  | 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 642.76                    | 92.09                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 124.93                    |                         |
| 33 42 11 00-1051        | LF  | 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 682.50                    | 102.32                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 131.41                    |                         |
| 33 42 11 00-1052        | LF  | 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 721.71                    | 112.55                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 137.87                    |                         |
| 33 42 11 00-1053        | LF  | 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 759.89                    | 122.78                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 144.39                    |                         |
| 33 42 11 00-1054        | LF  | 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 799.91                    | 133.02                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 150.87                    |                         |
| 33 42 11 00-1055        | LF  | 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 842.57                    | 143.25                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 157.38                    |                         |
| 33 42 11 00-1056        | LF  | 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....        | 888.37                    | 153.48                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 163.91                    |                         |
| <b>33 42 11 00-1057</b> |     | <b>125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>             |                           |                         |
|                         |     | <small>(33 42 11 00-0964)</small>  |                           |                         |
| <b>33 42 11 00-1058</b> |     | <b>16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>   |                           |                         |
|                         |     | <small>(33 42 11 00-1057)</small>  |                           |                         |
| 33 42 11 00-1059        | LF  | 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 165.17                    | 30.70                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 45.86                     |                         |
| 33 42 11 00-1060        | LF  | 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 197.78                    | 34.79                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 56.19                     |                         |
| 33 42 11 00-1061        | LF  | 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 215.24                    | 36.83                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 61.11                     |                         |
| 33 42 11 00-1062        | LF  | 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 266.65                    | 45.02                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 76.93                     |                         |
| 33 42 11 00-1063        | LF  | 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 320.35                    | 65.48                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 81.95                     |                         |
| 33 42 11 00-1064        | LF  | 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 345.01                    | 71.62                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 86.96                     |                         |
| 33 42 11 00-1065        | LF  | 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 366.80                    | 76.74                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 91.94                     |                         |
| 33 42 11 00-1066        | LF  | 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 388.53                    | 81.85                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 96.89                     |                         |
| 33 42 11 00-1067        | LF  | 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 411.21                    | 86.97                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 101.94                    |                         |
| 33 42 11 00-1068        | LF  | 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... | 436.98                    | 92.09                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 107.10                    |                         |
| <b>33 42 11 00-1069</b> |     | <b>14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>   |                           |                         |
|                         |     | <small>(33 42 11 00-1057)</small>  |                           |                         |
| 33 42 11 00-1070        | LF  | 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 223.24                    | 34.79                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 52.98                     |                         |
| 33 42 11 00-1071        | LF  | 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 243.61                    | 36.83                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 57.85                     |                         |
| 33 42 11 00-1072        | LF  | 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 297.54                    | 45.02                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 71.19                     |                         |
| 33 42 11 00-1073        | LF  | 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 353.76                    | 65.48                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 76.00                     |                         |
| 33 42 11 00-1074        | LF  | 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 381.42                    | 71.62                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 80.98                     |                         |
| 33 42 11 00-1075        | LF  | 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 406.04                    | 76.74                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 85.87                     |                         |
| 33 42 11 00-1076        | LF  | 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 429.22                    | 81.85                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 90.27                     |                         |
| 33 42 11 00-1077        | LF  | 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 455.96                    | 86.97                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 95.63                     |                         |
| 33 42 11 00-1078        | LF  | 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... | 484.14                    | 92.09                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 100.52                    |                         |
| 33 42 11 00-1079        | LF  | 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... | 514.54                    | 102.32                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 105.37                    |                         |
| 33 42 11 00-1080        | LF  | 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... | 544.86                    | 112.55                  |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 110.32                    |                         |
| <b>33 42 11 00-1081</b> |     | <b>12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>   |                           |                         |
|                         |     | <small>(33 42 11 00-1057)</small>  |                           |                         |
| 33 42 11 00-1082        | LF  | 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 296.62                    | 36.83                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 63.82                     |                         |
| 33 42 11 00-1083        | LF  | 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 355.99                    | 45.02                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 76.60                     |                         |
| 33 42 11 00-1084        | LF  | 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 417.76                    | 65.48                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 82.24                     |                         |
| 33 42 11 00-1085        | LF  | 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 450.32                    | 71.62                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 87.82                     |                         |
| 33 42 11 00-1086        | LF  | 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 479.95                    | 76.74                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 93.37                     |                         |
| 33 42 11 00-1087        | LF  | 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....  | 509.87                    | 81.85                   |
|                         |     | <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>                                      | 99.00                     |                         |



|                         | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|---|------------------------|----------------------|
| 33 42 11 00-1088        | LF    |     |     | 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  | 540.32<br>104.57       | 86.97                |
| 33 42 11 00-1089        | LF    |     |     | 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 573.60<br>110.14       | 92.09                |
| 33 42 11 00-1090        | LF    |     |     | 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 609.39<br>115.76       | 102.32               |
| 33 42 11 00-1091        | LF    |     |     | 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 644.65<br>121.34       | 112.55               |
| 33 42 11 00-1092        | LF    |     |     | 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 678.63<br>126.93       | 122.78               |
| <b>33 42 11 00-1093</b> |       |     |     | <b>10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1057)</small></b>                        |                        |                      |
| 33 42 11 00-1094        | LF    |     |     | 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  | 479.05<br>99.77        | 65.48                |
| 33 42 11 00-1095        | LF    |     |     | 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  | 517.30<br>106.98       | 71.62                |
| 33 42 11 00-1096        | LF    |     |     | 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  | 552.26<br>114.05       | 76.74                |
| 33 42 11 00-1097        | LF    |     |     | 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  | 587.00<br>121.06       | 81.85                |
| 33 42 11 00-1098        | LF    |     |     | 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i>  | 622.66<br>128.12       | 86.97                |
| 33 42 11 00-1099        | LF    |     |     | 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 661.02<br>135.15       | 92.09                |
| 33 42 11 00-1100        | LF    |     |     | 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 701.87<br>142.21       | 102.32               |
| 33 42 11 00-1101        | LF    |     |     | 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 742.26<br>149.26       | 112.55               |
| 33 42 11 00-1102        | LF    |     |     | 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 781.25<br>156.28       | 122.78               |
| 33 42 11 00-1103        | LF    |     |     | 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 830.15<br>165.55       | 133.02               |
| 33 42 11 00-1104        | LF    |     |     | 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 875.80<br>173.18       | 143.25               |
| 33 42 11 00-1105        | LF    |     |     | 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....<br><i>For 1/2 Bituminous Coated And 25% Paved, Add</i> | 925.57<br>181.10       | 153.48               |
| <b>33 42 11 00-1106</b> |       |     |     | <b>Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0964)</small></b>  |                        |                      |
| <b>33 42 11 00-1107</b> |       |     |     | <b>16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1106)</small></b>                                    |                        |                      |
| 33 42 11 00-1108        | LF    |     |     | 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 57.56                  | 11.43                |
| 33 42 11 00-1109        | LF    |     |     | 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 65.95                  | 12.39                |
| 33 42 11 00-1110        | LF    |     |     | 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 73.75                  | 13.33                |
| 33 42 11 00-1111        | LF    |     |     | 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 96.23                  | 17.14                |
| 33 42 11 00-1112        | LF    |     |     | 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 123.77                 | 22.51                |
| 33 42 11 00-1113        | LF    |     |     | 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 141.62                 | 26.60                |
| 33 42 11 00-1114        | LF    |     |     | 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 159.74                 | 30.70                |
| 33 42 11 00-1115        | LF    |     |     | 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 189.67                 | 34.79                |
| 33 42 11 00-1116        | LF    |     |     | 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 207.24                 | 36.83                |
| <b>33 42 11 00-1117</b> |       |     |     | <b>14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1106)</small></b>                                    |                        |                      |
| 33 42 11 00-1118        | LF    |     |     | 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 63.46                  | 11.43                |
| 33 42 11 00-1119        | LF    |     |     | 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 72.84                  | 12.39                |
| 33 42 11 00-1120        | LF    |     |     | 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 81.56                  | 13.33                |
| 33 42 11 00-1121        | LF    |     |     | 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 105.99                 | 17.14                |
| 33 42 11 00-1122        | LF    |     |     | 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 135.52                 | 22.51                |
| 33 42 11 00-1123        | LF    |     |     | 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 155.36                 | 26.60                |
| 33 42 11 00-1124        | LF    |     |     | 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 175.43                 | 30.70                |
| 33 42 11 00-1125        | LF    |     |     | 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 207.32                 | 34.79                |
| 33 42 11 00-1126        | LF    |     |     | 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 226.92                 | 36.83                |
| 33 42 11 00-1127        | LF    |     |     | 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 275.99                 | 45.02                |
| 33 42 11 00-1128        | LF    |     |     | 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 331.41                 | 65.48                |
| 33 42 11 00-1129        | LF    |     |     | 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 357.99                 | 71.62                |
| <b>33 42 11 00-1130</b> |       |     |     | <b>12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1106)</small></b>                                    |                        |                      |
| 33 42 11 00-1131        | LF    |     |     | 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 125.78                 | 17.14                |
| 33 42 11 00-1132        | LF    |     |     | 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 159.22                 | 22.51                |
| 33 42 11 00-1133        | LF    |     |     | 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 183.12                 | 26.60                |
| 33 42 11 00-1134        | LF    |     |     | 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 207.09                 | 30.70                |
| 33 42 11 00-1135        | LF    |     |     | 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 242.91                 | 34.79                |
| 33 42 11 00-1136        | LF    |     |     | 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 266.53                 | 36.83                |
| 33 42 11 00-1137        | LF    |     |     | 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 319.47                 | 45.02                |
| 33 42 11 00-1138        | LF    |     |     | 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 378.80                 | 65.48                |
| 33 42 11 00-1139        | LF    |     |     | 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 409.32                 | 71.62                |
| 33 42 11 00-1140        | LF    |     |     | 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....   | 436.93                 | 76.74                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-1141 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....                              | 464.59                    | 81.85                   |
| 33 42 11 00-1142 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....                              | 492.86                    | 86.97                   |
| 33 42 11 00-1143 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....                             | 522.11                    | 92.09                   |
| <b>33 42 11 00-1144 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0455)</b>                                      |                           |                         |
| <b>33 42 11 00-1145 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1144)</b>           |                           |                         |
| <b>33 42 11 00-1146 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)</b> |                           |                         |
| 33 42 11 00-1147 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 46.32                     | 10.48                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 12.23                     |                         |
| 33 42 11 00-1148 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 51.94                     | 11.43                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 14.61                     |                         |
| 33 42 11 00-1149 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 59.71                     | 12.39                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 17.57                     |                         |
| 33 42 11 00-1150 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 67.20                     | 13.33                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 20.25                     |                         |
| 33 42 11 00-1151 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 87.35                     | 17.14                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 25.72                     |                         |
| 33 42 11 00-1152 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 115.04                    | 22.51                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 33.17                     |                         |
| <b>33 42 11 00-1153 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)</b> |                           |                         |
| 33 42 11 00-1154 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 51.34                     | 10.48                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 12.67                     |                         |
| 33 42 11 00-1155 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 58.02                     | 11.43                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 15.18                     |                         |
| 33 42 11 00-1156 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 66.56                     | 12.39                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 18.06                     |                         |
| 33 42 11 00-1157 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 75.13                     | 13.33                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 20.83                     |                         |
| 33 42 11 00-1158 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 97.23                     | 17.14                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 26.37                     |                         |
| 33 42 11 00-1159 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 126.79                    | 22.51                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 33.59                     |                         |
| 33 42 11 00-1160 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 146.25                    | 26.60                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 40.02                     |                         |
| <b>33 42 11 00-1161 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)</b> |                           |                         |
| 33 42 11 00-1162 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 70.43                     | 11.43                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 13.91                     |                         |
| 33 42 11 00-1163 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 81.26                     | 12.39                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 16.53                     |                         |
| 33 42 11 00-1164 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 91.78                     | 13.33                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 18.97                     |                         |
| 33 42 11 00-1165 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 118.01                    | 17.14                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 23.94                     |                         |
| 33 42 11 00-1166 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 151.90                    | 22.51                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 30.10                     |                         |
| 33 42 11 00-1167 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 175.54                    | 26.60                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 35.68                     |                         |
| 33 42 11 00-1168 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 205.75                    | 30.70                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 42.48                     |                         |
| 33 42 11 00-1169 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 229.44                    | 34.79                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 46.83                     |                         |
| <b>33 42 11 00-1170 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)</b> |                           |                         |
| 33 42 11 00-1171 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 174.45                    | 22.51                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 31.68                     |                         |
| 33 42 11 00-1172 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 201.83                    | 26.60                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 37.44                     |                         |
| 33 42 11 00-1173 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 235.57                    | 30.70                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 44.20                     |                         |
| 33 42 11 00-1174 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 263.16                    | 34.79                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 48.94                     |                         |
| 33 42 11 00-1175 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....         | 288.12                    | 36.83                   |
| <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 53.67                     |                         |
| <b>33 42 11 00-1176 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1144)</b>                 |                           |                         |
| <b>33 42 11 00-1177 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)</b>       |                           |                         |



|                       |           |           |
|-----------------------|-----------|-----------|
| <b>Utilities</b>      | <b>33</b> | <b>CS</b> |
| Stormwater Utilities  | 33 40     |           |
| Stormwater Conveyance | 33 42     |           |

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 33 42 11 00-1178        | LF  |     | 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 220.98<br>70.34        | 34.79                |
| 33 42 11 00-1179        | LF  |     | 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 241.50<br>76.96        | 36.83                |
| 33 42 11 00-1180        | LF  |     | 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 299.22<br>96.67        | 45.02                |
| 33 42 11 00-1181        | LF  |     | 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 356.48<br>103.63       | 65.48                |
| 33 42 11 00-1182        | LF  |     | 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 385.51<br>110.96       | 71.62                |
| 33 42 11 00-1183        | LF  |     | 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 411.78<br>118.30       | 76.74                |
| 33 42 11 00-1184        | LF  |     | 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 437.98<br>125.61       | 81.85                |
| 33 42 11 00-1185        | LF  |     | 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 464.95<br>132.94       | 86.97                |
| <b>33 42 11 00-1186</b> |     |     | <b>12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-1176)</small>                                   |                        |                      |
| 33 42 11 00-1187        | LF  |     | 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 291.57<br>87.46        | 36.83                |
| 33 42 11 00-1188        | LF  |     | 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 354.73<br>106.89       | 45.02                |
| 33 42 11 00-1189        | LF  |     | 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 416.92<br>114.97       | 65.48                |
| 33 42 11 00-1190        | LF  |     | 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 450.78<br>123.32       | 71.62                |
| 33 42 11 00-1191        | LF  |     | 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 481.98<br>131.73       | 76.74                |
| 33 42 11 00-1192        | LF  |     | 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 513.12<br>140.11       | 81.85                |
| 33 42 11 00-1193        | LF  |     | 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 544.91<br>148.46       | 86.97                |
| 33 42 11 00-1194        | LF  |     | 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 579.72<br>156.89       | 92.09                |
| 33 42 11 00-1195        | LF  |     | 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 616.78<br>165.27       | 102.32               |
| 33 42 11 00-1196        | LF  |     | 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 655.52<br>174.49       | 112.55               |
| <b>33 42 11 00-1197</b> |     |     | <b>10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-1176)</small>                                   |                        |                      |
| 33 42 11 00-1198        | LF  |     | 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 473.04<br>124.44       | 65.48                |
| 33 42 11 00-1199        | LF  |     | 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 511.56<br>133.70       | 71.62                |
| 33 42 11 00-1200        | LF  |     | 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>         | 547.36<br>142.98       | 76.74                |
| 33 42 11 00-1201        | LF  |     | 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 583.02<br>152.21       | 81.85                |
| 33 42 11 00-1202        | LF  |     | 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 622.54<br>162.57       | 86.97                |
| 33 42 11 00-1203        | LF  |     | 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 658.84<br>170.74       | 92.09                |
| 33 42 11 00-1204        | LF  |     | 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 700.53<br>180.01       | 102.32               |
| 33 42 11 00-1205        | LF  |     | 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 743.45<br>189.87       | 112.55               |
| 33 42 11 00-1206        | LF  |     | 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>        | 790.59<br>201.74       | 122.78               |
| <b>33 42 11 00-1207</b> |     |     | <b>125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-1144)</small>                                      |                        |                      |
| <b>33 42 11 00-1208</b> |     |     | <b>12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-1207)</small>                            |                        |                      |
| 33 42 11 00-1209        | LF  |     | 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 422.59<br>113.15       | 65.48                |
| 33 42 11 00-1210        | LF  |     | 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 455.94<br>121.01       | 71.62                |
| 33 42 11 00-1211        | LF  |     | 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 486.31<br>128.81       | 76.74                |
| 33 42 11 00-1212        | LF  |     | 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 516.64<br>136.58       | 81.85                |
| 33 42 11 00-1213        | LF  |     | 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 547.82<br>144.40       | 86.97                |
| 33 42 11 00-1214        | LF  |     | 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 582.21<br>152.37       | 92.09                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-1215 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 618.85<br>160.30          | 102.32                  |
| 33 42 11 00-1216 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 660.23<br>170.22          | 112.55                  |
| <b>33 42 11 00-1217 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b><br><small>(33 42 11 00-1207)</small>                          |                           |                         |
| 33 42 11 00-1218 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 484.75<br>125.50          | 65.48                   |
| 33 42 11 00-1219 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 523.08<br>134.46          | 71.62                   |
| 33 42 11 00-1220 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i>  | 558.46<br>143.36          | 76.74                   |
| 33 42 11 00-1221 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 594.00<br>152.32          | 81.85                   |
| 33 42 11 00-1222 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 629.43<br>160.98          | 86.97                   |
| 33 42 11 00-1223 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 669.52<br>170.29          | 92.09                   |
| 33 42 11 00-1224 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 711.33<br>179.37          | 102.32                  |
| 33 42 11 00-1225 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 757.80<br>190.25          | 112.55                  |
| 33 42 11 00-1226 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch<br><i>For 1/2 Bituminous Coated And 40% Paved, Add</i> | 801.31<br>200.53          | 122.78                  |
| <b>33 42 11 00-1227 Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-0455)</small>  |                           |                         |
| <b>33 42 11 00-1228 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-1227)</small>                                       |                           |                         |
| <b>33 42 11 00-1229 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-1228)</small>                             |                           |                         |
| 33 42 11 00-1230 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                           | 23.54<br>2.33             | 5.71                    |
| 33 42 11 00-1231 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                           | 30.31<br>3.16             | 7.15                    |
| 33 42 11 00-1232 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 39.25<br>4.16             | 8.58                    |
| <b>33 42 11 00-1233 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-1228)</small>                             |                           |                         |
| 33 42 11 00-1234 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                           | 26.21<br>2.31             | 5.71                    |
| 33 42 11 00-1235 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                           | 34.08<br>3.15             | 7.15                    |
| 33 42 11 00-1236 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 44.28<br>4.17             | 8.58                    |
| <b>33 42 11 00-1237 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-1227)</small>                                       |                           |                         |
| <b>33 42 11 00-1238 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-1237)</small>                             |                           |                         |
| 33 42 11 00-1239 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 45.52<br>4.58             | 10.00                   |
| 33 42 11 00-1240 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 52.56<br>5.74             | 10.48                   |
| 33 42 11 00-1241 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 60.03<br>6.98             | 11.43                   |
| 33 42 11 00-1242 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 69.10<br>8.33             | 12.39                   |
| 33 42 11 00-1243 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 77.19<br>9.45             | 13.33                   |
| <b>33 42 11 00-1244 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b><br><small>(33 42 11 00-1237)</small>                             |                           |                         |
| 33 42 11 00-1245 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 51.23<br>4.48             | 10.00                   |
| 33 42 11 00-1246 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 59.85<br>5.63             | 10.48                   |
| 33 42 11 00-1247 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 68.77<br>6.83             | 11.43                   |
| 33 42 11 00-1248 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 79.22<br>8.11             | 12.39                   |
| 33 42 11 00-1249 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe<br><i>For Bituminous Coated Pipe, Add</i>                          | 88.81<br>9.21             | 13.33                   |



|  |                              |              |
|--|------------------------------|--------------|
|  | <b>Utilities</b>             | <b>33</b>    |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |

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| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 33 42 11 00-1250        | LF  |     | 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 115.52<br>11.81        | 17.14                |
| 33 42 11 00-1251        | LF  |     | 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 147.64<br>14.68        | 22.51                |
| <b>33 42 11 00-1252</b> |     |     | <b>12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1237)</small>          |                        |                      |
| 33 42 11 00-1253        | LF  |     | 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 111.03<br>8.74         | 13.33                |
| 33 42 11 00-1254        | LF  |     | 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 143.18<br>11.12        | 17.14                |
| 33 42 11 00-1255        | LF  |     | 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 180.87<br>13.71        | 22.51                |
| 33 42 11 00-1256        | LF  |     | 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 208.65<br>16.13        | 26.60                |
| 33 42 11 00-1257        | LF  |     | 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 235.97<br>18.25        | 30.70                |
| 33 42 11 00-1258        | LF  |     | 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 277.64<br>21.65        | 34.79                |
| <b>33 42 11 00-1259</b> |     |     | <b>10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1237)</small>          |                        |                      |
| 33 42 11 00-1260        | LF  |     | 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 216.28<br>13.48        | 22.51                |
| 33 42 11 00-1261        | LF  |     | 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 249.90<br>15.82        | 26.60                |
| 33 42 11 00-1262        | LF  |     | 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 283.25<br>17.96        | 30.70                |
| 33 42 11 00-1263        | LF  |     | 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 330.83<br>21.07        | 34.79                |
| 33 42 11 00-1264        | LF  |     | 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i> | 363.74<br>23.22        | 36.83                |
| <b>33 42 11 00-1265</b> |     |     | <b>3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1227)</small>                          |                        |                      |
| <b>33 42 11 00-1266</b> |     |     | <b>16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1265)</small>                |                        |                      |
| 33 42 11 00-1267        | LF  |     | 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 113.71<br>13.48        | 17.14                |
| 33 42 11 00-1268        | LF  |     | 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 145.38<br>16.62        | 22.51                |
| 33 42 11 00-1269        | LF  |     | 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 166.52<br>18.87        | 26.60                |
| 33 42 11 00-1270        | LF  |     | 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 188.57<br>22.73        | 30.70                |
| 33 42 11 00-1271        | LF  |     | 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 222.73<br>27.06        | 34.79                |
| <b>33 42 11 00-1272</b> |     |     | <b>14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1265)</small>                |                        |                      |
| 33 42 11 00-1273        | LF  |     | 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 128.28<br>15.82        | 17.14                |
| 33 42 11 00-1274        | LF  |     | 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 166.17<br>20.44        | 22.51                |
| 33 42 11 00-1275        | LF  |     | 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 190.65<br>23.36        | 26.60                |
| 33 42 11 00-1276        | LF  |     | 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 214.91<br>26.74        | 30.70                |
| 33 42 11 00-1277        | LF  |     | 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 253.58<br>31.24        | 34.79                |
| 33 42 11 00-1278        | LF  |     | 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 277.27<br>34.45        | 36.83                |
| 33 42 11 00-1279        | LF  |     | 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 337.30<br>40.87        | 45.02                |
| 33 42 11 00-1280        | LF  |     | 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 397.19<br>47.15        | 65.48                |
| 33 42 11 00-1281        | LF  |     | 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 428.10<br>52.44        | 71.62                |
| <b>33 42 11 00-1282</b> |     |     | <b>12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1265)</small>                |                        |                      |
| 33 42 11 00-1283        | LF  |     | 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 162.30<br>20.44        | 17.14                |
| 33 42 11 00-1284        | LF  |     | 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 204.43<br>26.60        | 22.51                |
| 33 42 11 00-1285        | LF  |     | 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 236.36<br>30.70        | 26.60                |
| 33 42 11 00-1286        | LF  |     | 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 267.34<br>34.45        | 30.70                |
| 33 42 11 00-1287        | LF  |     | 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 312.44<br>38.83        | 34.79                |
| 33 42 11 00-1288        | LF  |     | 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 342.45<br>42.99        | 36.83                |
| 33 42 11 00-1289        | LF  |     | 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 408.79<br>50.06        | 45.02                |
| 33 42 11 00-1290        | LF  |     | 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 475.15<br>58.24        | 65.48                |
| 33 42 11 00-1291        | LF  |     | 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 512.44<br>66.74        | 71.62                |
| 33 42 11 00-1292        | LF  |     | 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 547.02<br>75.45        | 76.74                |
| 33 42 11 00-1293        | LF  |     | 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 581.51<br>86.97        | 81.85                |
| 33 42 11 00-1294        | LF  |     | 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 616.74<br>76.74        | 86.97                |
| <b>33 42 11 00-1295</b> |     |     | <b>10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1265)</small>                |                        |                      |
| 33 42 11 00-1296        | LF  |     | 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 411.00<br>50.06        | 36.83                |
| 33 42 11 00-1297        | LF  |     | 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....<br><i>For Bituminous Coated Pipe, Add</i>       | 481.31<br>58.24        | 45.02                |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-1298 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                    | 554.18                    | 65.48                   |
| 33 42 11 00-1299 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                    | 597.98                    | 71.62                   |
| 33 42 11 00-1300 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                    | 638.97                    | 76.74                   |
| 33 42 11 00-1301 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                    | 679.96                    | 81.85                   |
| 33 42 11 00-1302 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                    | 721.64                    | 86.97                   |
| 33 42 11 00-1303 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                   | 766.30                    | 92.09                   |
| 33 42 11 00-1304 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....                                   | 813.22                    | 102.32                  |
| <b>33 42 11 00-1305 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1227)</small>           |                           |                         |
| Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.   |                           |                         |
| <b>33 42 11 00-1306 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1305)</small> |                           |                         |
| 33 42 11 00-1307 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 79.65                     | 11.43                   |
| 33 42 11 00-1308 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 85.66                     | 12.39                   |
| 33 42 11 00-1309 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 103.26                    | 13.33                   |
| 33 42 11 00-1310 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 119.23                    | 15.24                   |
| 33 42 11 00-1311 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 133.67                    | 17.14                   |
| 33 42 11 00-1312 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 149.16                    | 19.05                   |
| <b>33 42 11 00-1313 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1305)</small> |                           |                         |
| 33 42 11 00-1314 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 91.98                     | 11.43                   |
| 33 42 11 00-1315 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 106.33                    | 12.39                   |
| 33 42 11 00-1316 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 119.83                    | 13.33                   |
| 33 42 11 00-1317 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 137.83                    | 15.24                   |
| 33 42 11 00-1318 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 154.30                    | 17.14                   |
| 33 42 11 00-1319 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 171.89                    | 19.05                   |
| 33 42 11 00-1320 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 194.47                    | 22.51                   |
| 33 42 11 00-1321 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 224.49                    | 26.60                   |
| 33 42 11 00-1322 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 254.02                    | 30.70                   |
| <b>33 42 11 00-1323 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1305)</small> |                           |                         |
| 33 42 11 00-1324 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 194.65                    | 17.14                   |
| 33 42 11 00-1325 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 216.18                    | 19.05                   |
| 33 42 11 00-1326 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 242.85                    | 22.51                   |
| 33 42 11 00-1327 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 280.99                    | 26.60                   |
| 33 42 11 00-1328 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 318.59                    | 30.70                   |
| 33 42 11 00-1329 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 440.70                    | 34.79                   |
| 33 42 11 00-1330 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 485.03                    | 36.83                   |
| <b>33 42 11 00-1331 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1305)</small> |                           |                         |
| 33 42 11 00-1332 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 450.15                    | 30.70                   |
| 33 42 11 00-1333 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 521.81                    | 34.79                   |
| 33 42 11 00-1334 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 575.25                    | 36.83                   |
| 33 42 11 00-1335 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 668.34                    | 45.02                   |
| 33 42 11 00-1336 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 756.75                    | 65.48                   |
| 33 42 11 00-1337 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 816.83                    | 71.62                   |
| 33 42 11 00-1338 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....                               | 873.60                    | 76.74                   |
| <b>33 42 11 00-1339 Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-0455)</small>  |                           |                         |
| <b>33 42 11 00-1340 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1339)</small>                 |                           |                         |
| <b>33 42 11 00-1341 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1340)</small>       |                           |                         |
| 33 42 11 00-1342 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 55.16                     | 10.48                   |
| For Bituminous Coated Pipe, Add   | 5.75                      |                         |
| 33 42 11 00-1343 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 62.50                     | 11.43                   |
| For Bituminous Coated Pipe, Add   | 6.87                      |                         |
| 33 42 11 00-1344 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 71.90                     | 12.39                   |
| For Bituminous Coated Pipe, Add   | 8.18                      |                         |
| <b>33 42 11 00-1345 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1340)</small>       |                           |                         |
| 33 42 11 00-1346 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 62.46                     | 10.48                   |
| For Bituminous Coated Pipe, Add   | 5.73                      |                         |
| 33 42 11 00-1347 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 69.51                     | 11.43                   |
| For Bituminous Coated Pipe, Add   | 6.61                      |                         |
| 33 42 11 00-1348 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 82.03                     | 12.39                   |
| For Bituminous Coated Pipe, Add   | 8.11                      |                         |
| 33 42 11 00-1349 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....                              | 92.62                     | 13.33                   |
| For Bituminous Coated Pipe, Add   | 9.31                      |                         |



|                              |              |           |
|------------------------------|--------------|-----------|
| <b>Utilities</b>             | <b>33</b>    | <b>CS</b> |
| <b>Stormwater Utilities</b>  | <b>33 40</b> |           |
| <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-1350 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 119.31<br>11.78           | 17.14                   |
| <b>33 42 11 00-1351 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b><br><small>(33 42 11 00-1340)</small>                        |                           |                         |
| 33 42 11 00-1352 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 114.86<br>8.87            | 13.33                   |
| 33 42 11 00-1353 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 147.04<br>11.19           | 17.14                   |
| 33 42 11 00-1354 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 187.39<br>13.96           | 22.51                   |
| 33 42 11 00-1355 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 217.24<br>16.52           | 26.60                   |
| <b>33 42 11 00-1356 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b><br><small>(33 42 11 00-1340)</small>                        |                           |                         |
| 33 42 11 00-1357 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 222.76<br>13.48           | 22.51                   |
| 33 42 11 00-1358 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 258.57<br>15.90           | 26.60                   |
| 33 42 11 00-1359 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 300.65<br>18.63           | 30.70                   |
| 33 42 11 00-1360 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....<br><i>For Bituminous Coated Pipe, Add</i>        | 336.55<br>20.72           | 34.79                   |
| <b>33 42 11 00-1361 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1339)</small>   |                           |                         |
| <b>33 42 11 00-1362 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1361)</small>                                 |                           |                         |
| 33 42 11 00-1363 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 259.30                    | 34.79                   |
| 33 42 11 00-1364 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 283.92                    | 36.83                   |
| 33 42 11 00-1365 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 345.52                    | 45.02                   |
| <b>33 42 11 00-1366 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1361)</small>                                 |                           |                         |
| 33 42 11 00-1367 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 318.16                    | 34.79                   |
| 33 42 11 00-1368 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 349.10                    | 36.83                   |
| 33 42 11 00-1369 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 416.71                    | 45.02                   |
| 33 42 11 00-1370 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 483.68                    | 65.48                   |
| 33 42 11 00-1371 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 521.56                    | 71.62                   |
| 33 42 11 00-1372 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 556.75                    | 76.74                   |
| <b>33 42 11 00-1373 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1361)</small>                                 |                           |                         |
| 33 42 11 00-1374 LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 417.55                    | 36.83                   |
| 33 42 11 00-1375 LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 488.94                    | 45.02                   |
| 33 42 11 00-1376 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 562.40                    | 65.48                   |
| 33 42 11 00-1377 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 606.79                    | 71.62                   |
| 33 42 11 00-1378 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....  | 648.39                    | 76.74                   |
| 33 42 11 00-1379 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....   | 689.96                    | 81.85                   |
| <b>33 42 11 00-1380 Corrugated Steel Pipe Fittings</b> <small>(33 42 11 00-0455)</small>  |                           |                         |
| Note: Equivalent pipe-arch sizes are approximate.   |                           |                         |
| <b>33 42 11 00-1381 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings</b> <small>(33 42 11 00-1380)</small>                              |                           |                         |
| Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.       |                           |                         |
| 33 42 11 00-1382 EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe) .....                          | 88.92                     |                         |
| 33 42 11 00-1383 EA Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe) .....                          | 111.51                    |                         |
| 33 42 11 00-1384 EA Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe) .....                         | 134.11                    |                         |
| 33 42 11 00-1385 EA Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe) .....                         | 158.12                    |                         |
| 33 42 11 00-1386 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)..... | 191.98                    |                         |
| 33 42 11 00-1387 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)..... | 225.84                    |                         |
| 33 42 11 00-1388 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)..... | 259.74                    |                         |
| 33 42 11 00-1389 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)..... | 293.60                    |                         |
| 33 42 11 00-1390 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)..... | 382.54                    |                         |
| 33 42 11 00-1391 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)..... | 455.93                    |                         |
| 33 42 11 00-1392 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)..... | 529.35                    |                         |
| 33 42 11 00-1393 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)..... | 684.61                    |                         |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 11 00-1394 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....    | 772.15                    |                         |
| 33 42 11 00-1395 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....    | 862.49                    |                         |
| 33 42 11 00-1396 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....    | 955.64                    |                         |
| 33 42 11 00-1397 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....   | 1,164.56                  |                         |
| 33 42 11 00-1398 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....   | 1,270.42                  |                         |
| 33 42 11 00-1399 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....   | 1,379.11                  |                         |
| 33 42 11 00-1400 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....  | 1,692.49                  |                         |
| 33 42 11 00-1401 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....  | 1,816.72                  |                         |
| 33 42 11 00-1402 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)..... | 1,942.35                  |                         |
| 33 42 11 00-1403 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)..... | 2,067.97                  |                         |
| 33 42 11 00-1404 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)..... | 2,192.18                  |                         |
| 33 42 11 00-1405 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)..... | 2,317.83                  |                         |
| 33 42 11 00-1406 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....                           | 2,450.28                  |                         |
| 33 42 11 00-1407 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....                           | 2,590.31                  |                         |
| 33 42 11 00-1408 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....                           | 2,738.31                  |                         |

**33 42 11 00-1409****Fabricate Corrugated Steel Pipe Tees Or Laterals** (33 42 11 00-1380)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

|  |          |  |
|--|----------|--|
| 33 42 11 00-1410 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....                              | 115.75   |  |
| 33 42 11 00-1411 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....                              | 148.22   |  |
| 33 42 11 00-1412 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....                             | 180.67   |  |
| 33 42 11 00-1413 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....                             | 213.15   |  |
| 33 42 11 00-1414 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....    | 259.74   |  |
| 33 42 11 00-1415 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....    | 307.71   |  |
| 33 42 11 00-1416 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....    | 355.73   |  |
| 33 42 11 00-1417 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....    | 403.69   |  |
| 33 42 11 00-1418 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....    | 529.35   |  |
| 33 42 11 00-1419 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....    | 630.98   |  |
| 33 42 11 00-1420 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....    | 734.02   |  |
| 33 42 11 00-1421 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....    | 952.80   |  |
| 33 42 11 00-1422 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....   | 1,072.80 |  |
| 33 42 11 00-1423 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....   | 1,197.00 |  |
| 33 42 11 00-1424 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....   | 1,324.06 |  |
| 33 42 11 00-1425 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....   | 1,614.84 |  |
| 33 42 11 00-1426 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....   | 1,758.84 |  |
| 33 42 11 00-1427 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....   | 1,905.64 |  |
| 33 42 11 00-1428 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....  | 2,344.61 |  |
| 33 42 11 00-1429 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....  | 2,512.60 |  |
| 33 42 11 00-1430 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe)..... | 2,680.58 |  |
| 33 42 11 00-1431 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe)..... | 2,849.95 |  |
| 33 42 11 00-1432 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe)..... | 3,019.37 |  |
| 33 42 11 00-1433 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe)..... | 3,187.32 |  |
| 33 42 11 00-1434 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....                           | 3,364.64 |  |
| 33 42 11 00-1435 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....                           | 3,551.82 |  |
| 33 42 11 00-1436 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....                           | 3,749.39 |  |

**33 42 11 00-1437****Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting** (33 42 11 00-1380)

Note: Applied to pipe tasks.

|  |       |  |
|--|-------|--|
| 33 42 11 00-1438 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting..... | 44.35 |  |
|--|-------|--|



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 11 00-1439 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....                              | 55.79                     |                         |
| 33 42 11 00-1440 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....                             | 70.18                     |                         |
| 33 42 11 00-1441 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....                             | 85.94                     |                         |
| 33 42 11 00-1442 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 108.75                    |                         |
| 33 42 11 00-1443 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 133.17                    |                         |
| 33 42 11 00-1444 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 155.98                    |                         |
| 33 42 11 00-1445 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 181.21                    |                         |
| 33 42 11 00-1446 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 222.58                    |                         |
| 33 42 11 00-1447 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 265.37                    |                         |
| 33 42 11 00-1448 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 316.64                    |                         |
| 33 42 11 00-1449 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 389.51                    |                         |
| 33 42 11 00-1450 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 440.87                    |                         |
| 33 42 11 00-1451 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 496.50                    |                         |
| 33 42 11 00-1452 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 602.10                    |                         |
| 33 42 11 00-1453 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 667.71                    |                         |
| 33 42 11 00-1454 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 814.68                    |                         |
| 33 42 11 00-1455 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....   | 887.47                    |                         |
| 33 42 11 00-1456 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....  | 964.54                    |                         |
| 33 42 11 00-1457 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting .....  | 1,040.11                  |                         |
| 33 42 11 00-1458 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting ..... | 1,117.16                  |                         |
| 33 42 11 00-1459 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting ..... | 1,195.62                  |                         |
| 33 42 11 00-1460 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting ..... | 1,272.69                  |                         |
| 33 42 11 00-1461 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting ..... | 1,349.72                  |                         |
| 33 42 11 00-1462 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....                            | 1,431.42                  |                         |
| 33 42 11 00-1463 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....                            | 1,518.03                  |                         |
| 33 42 11 00-1464 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....                            | 1,609.90                  |                         |

**33 42 11 00-1465 Coupling Bands, Corrugated Metal Pipe Fitting** (33 42 11 00-1380)

|   |          |  |
|---|----------|--|
| 33 42 11 00-1466 EA 6" Coupling Band, Corrugated Metal Pipe Fitting .....   | 13.32    |  |
| <i>For Bituminous Coated, Add</i>   | 3.86     |  |
| 33 42 11 00-1467 EA 8" Coupling Band, Corrugated Metal Pipe Fitting .....   | 17.68    |  |
| <i>For Bituminous Coated, Add</i>   | 5.13     |  |
| 33 42 11 00-1468 EA 10" Coupling Band, Corrugated Metal Pipe Fitting .....  | 22.28    |  |
| <i>For Bituminous Coated, Add</i>   | 6.46     |  |
| 33 42 11 00-1469 EA 12" Coupling Band, Corrugated Metal Pipe Fitting .....  | 36.98    |  |
| <i>For Bituminous Coated, Add</i>   | 10.72    |  |
| 33 42 11 00-1470 EA 15" Coupling Band, Corrugated Metal Pipe Fitting .....  | 46.62    |  |
| <i>For Bituminous Coated, Add</i>   | 13.52    |  |
| 33 42 11 00-1471 EA 18" Coupling Band, Corrugated Metal Pipe Fitting .....  | 68.40    |  |
| <i>For Bituminous Coated, Add</i>   | 19.84    |  |
| 33 42 11 00-1472 EA 21" Coupling Band, Corrugated Metal Pipe Fitting .....  | 81.19    |  |
| <i>For Bituminous Coated, Add</i>   | 23.55    |  |
| 33 42 11 00-1473 EA 24" Coupling Band, Corrugated Metal Pipe Fitting .....  | 92.06    |  |
| <i>For Bituminous Coated, Add</i>   | 26.70    |  |
| 33 42 11 00-1474 EA 30" Coupling Band, Corrugated Metal Pipe Fitting .....  | 159.31   |  |
| <i>For Bituminous Coated, Add</i>   | 46.20    |  |
| 33 42 11 00-1475 EA 36" Coupling Band, Corrugated Metal Pipe Fitting .....  | 254.89   |  |
| <i>For Bituminous Coated, Add</i>   | 61.17    |  |
| 33 42 11 00-1476 EA 42" Coupling Band, Corrugated Metal Pipe Fitting .....  | 299.49   |  |
| <i>For Bituminous Coated, Add</i>   | 71.88    |  |
| 33 42 11 00-1477 EA 48" Coupling Band, Corrugated Metal Pipe Fitting .....  | 335.58   |  |
| <i>For Bituminous Coated, Add</i>   | 80.54    |  |
| 33 42 11 00-1478 EA 54" Coupling Band, Corrugated Metal Pipe Fitting .....  | 475.91   |  |
| <i>For Bituminous Coated, Add</i>   | 114.22   |  |
| 33 42 11 00-1479 EA 60" Coupling Band, Corrugated Metal Pipe Fitting .....  | 680.70   |  |
| <i>For Bituminous Coated, Add</i>   | 122.53   |  |
| 33 42 11 00-1480 EA 66" Coupling Band, Corrugated Metal Pipe Fitting .....  | 836.57   |  |
| <i>For Bituminous Coated, Add</i>   | 150.58   |  |
| 33 42 11 00-1481 EA 72" Coupling Band, Corrugated Metal Pipe Fitting .....  | 1,074.62 |  |
| <i>For Bituminous Coated, Add</i>   | 150.45   |  |
| 33 42 11 00-1482 EA 78" Coupling Band, Corrugated Metal Pipe Fitting .....  | 1,149.37 |  |
| <i>For Bituminous Coated, Add</i>   | 160.91   |  |
| 33 42 11 00-1483 EA 84" Coupling Band, Corrugated Metal Pipe Fitting .....  | 1,224.55 |  |
| <i>For Bituminous Coated, Add</i>   | 171.44   |  |
| 33 42 11 00-1484 EA 90" Coupling Band, Corrugated Metal Pipe Fitting .....  | 1,299.35 |  |
| <i>For Bituminous Coated, Add</i>   | 181.91   |  |
| 33 42 11 00-1485 EA 96" Coupling Band, Corrugated Metal Pipe Fitting .....  | 1,374.33 |  |
| <i>For Bituminous Coated, Add</i>   | 192.41   |  |
| 33 42 11 00-1486 EA 102" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,449.51 |  |
| <i>For Bituminous Coated, Add</i>   | 202.93   |  |
| 33 42 11 00-1487 EA 108" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,524.34 |  |
| <i>For Bituminous Coated, Add</i>   | 213.41   |  |
| 33 42 11 00-1488 EA 114" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,805.42 |  |
| <i>For Bituminous Coated, Add</i>   | 216.65   |  |
| 33 42 11 00-1489 EA 120" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,673.90 |  |
| <i>For Bituminous Coated, Add</i>   | 200.87   |  |
| 33 42 11 00-1490 EA 126" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,748.50 |  |
| <i>For Bituminous Coated, Add</i>   | 209.82   |  |
| 33 42 11 00-1491 EA 132" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,823.64 |  |
| <i>For Bituminous Coated, Add</i>   | 218.84   |  |
| 33 42 11 00-1492 EA 138" Coupling Band, Corrugated Metal Pipe Fitting ..... | 1,898.86 |  |
| <i>For Bituminous Coated, Add</i>   | 227.86   |  |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**33 42 13 Stormwater Culverts** (33 42)**33 42 13 13 Precast Concrete Stormwater Culverts** (33 42 13)**33 42 13 13-0001 Precast Reinforced Concrete Box Culvert** (33 42 13 13)

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0866 for crane lifting equipment.

|                  |  |          |        |
|------------------|--|----------|--------|
| 33 42 13 13-0002 | LF 3' x 3' Precast Reinforced Concrete Box Culvert   | 403.05   | 51.16  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 16.12    |        |
| 33 42 13 13-0003 | LF 4' x 2' Precast Reinforced Concrete Box Culvert   | 453.98   | 51.16  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 18.16    |        |
| 33 42 13 13-0004 | LF 4' x 3' Precast Reinforced Concrete Box Culvert   | 536.24   | 51.16  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 21.45    |        |
| 33 42 13 13-0005 | LF 5' x 3' Precast Reinforced Concrete Box Culvert   | 643.86   | 63.95  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 25.75    |        |
| 33 42 13 13-0006 | LF 5' x 4' Precast Reinforced Concrete Box Culvert   | 659.53   | 63.95  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 26.38    |        |
| 33 42 13 13-0007 | LF 5' x 5' Precast Reinforced Concrete Box Culvert   | 667.37   | 63.95  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 26.69    |        |
| 33 42 13 13-0008 | LF 6' x 3' Precast Reinforced Concrete Box Culvert   | 688.10   | 66.51  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 27.52    |        |
| 33 42 13 13-0009 | LF 6' x 4' Precast Reinforced Concrete Box Culvert   | 692.02   | 66.51  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 27.68    |        |
| 33 42 13 13-0010 | LF 6' x 6' Precast Reinforced Concrete Box Culvert   | 762.54   | 66.51  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 30.50    |        |
| 33 42 13 13-0011 | LF 7' x 4' Precast Reinforced Concrete Box Culvert   | 782.82   | 76.74  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 31.31    |        |
| 33 42 13 13-0012 | LF 7' x 6' Precast Reinforced Concrete Box Culvert   | 837.58   | 104.37 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 33.50    |        |
| 33 42 13 13-0013 | LF 8' x 2' Precast Reinforced Concrete Box Culvert   | 766.46   | 66.51  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 30.66    |        |
| 33 42 13 13-0014 | LF 8' x 3' Precast Reinforced Concrete Box Culvert   | 786.74   | 76.74  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 31.47    |        |
| 33 42 13 13-0015 | LF 8' x 4' Precast Reinforced Concrete Box Culvert   | 798.49   | 76.74  |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 31.94    |        |
| 33 42 13 13-0016 | LF 8' x 5' Precast Reinforced Concrete Box Culvert   | 963.58   | 102.32 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 38.54    |        |
| 33 42 13 13-0017 | LF 8' x 6' Precast Reinforced Concrete Box Culvert   | 966.71   | 102.32 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 38.67    |        |
| 33 42 13 13-0018 | LF 8' x 8' Precast Reinforced Concrete Box Culvert   | 1,069.91 | 127.91 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 42.80    |        |
| 33 42 13 13-0019 | LF 9' x 4' Precast Reinforced Concrete Box Culvert   | 1,064.65 | 102.32 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 42.59    |        |
| 33 42 13 13-0020 | LF 9' x 6' Precast Reinforced Concrete Box Culvert   | 1,127.10 | 127.91 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 45.08    |        |
| 33 42 13 13-0021 | LF 10' x 3' Precast Reinforced Concrete Box Culvert  | 1,131.02 | 127.91 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 45.24    |        |
| 33 42 13 13-0022 | LF 10' x 4' Precast Reinforced Concrete Box Culvert  | 1,373.90 | 127.91 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 54.96    |        |
| 33 42 13 13-0023 | LF 10' x 5' Precast Reinforced Concrete Box Culvert  | 1,440.29 | 153.48 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 57.61    |        |
| 33 42 13 13-0024 | LF 10' x 6' Precast Reinforced Concrete Box Culvert  | 1,455.95 | 153.48 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 58.24    |        |
| 33 42 13 13-0025 | LF 10' x 7' Precast Reinforced Concrete Box Culvert  | 1,459.87 | 153.48 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 58.39    |        |
| 33 42 13 13-0026 | LF 10' x 8' Precast Reinforced Concrete Box Culvert  | 1,465.36 | 153.48 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 58.61    |        |
| 33 42 13 13-0027 | LF 12' x 3' Precast Reinforced Concrete Box Culvert  | 1,522.32 | 179.06 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 60.89    |        |
| 33 42 13 13-0028 | LF 12' x 4' Precast Reinforced Concrete Box Culvert  | 1,522.32 | 179.06 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 60.89    |        |
| 33 42 13 13-0029 | LF 12' x 6' Precast Reinforced Concrete Box Culvert  | 1,522.32 | 179.06 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 60.89    |        |
| 33 42 13 13-0030 | LF 12' x 8' Precast Reinforced Concrete Box Culvert  | 1,522.32 | 179.06 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 60.89    |        |
| 33 42 13 13-0031 | LF 16' x 10' Precast Reinforced Concrete Box Culvert | 2,215.49 | 204.64 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 88.62    |        |
| 33 42 13 13-0032 | LF 24' x 10' Precast Reinforced Concrete Box Culvert | 3,077.35 | 204.64 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>           | 123.09   |        |

**33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways** (33 42 13 13)

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0866 for crane lifting equipment.

|                  |   |          |       |
|------------------|---|----------|-------|
| 33 42 13 13-0034 | LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways | 1,002.82 | 51.16 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>                      | 40.11    |       |
| 33 42 13 13-0035 | LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways | 1,078.07 | 51.16 |
|                  | <i>For Each LF Of Cut-Off Section, Add</i>                      | 43.12    |       |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 13 13-0036 LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,211.26<br>48.45         | 51.16                   |
| 33 42 13 13-0037 LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,369.76<br>54.79         | 63.95                   |
| 33 42 13 13-0038 LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,502.95<br>60.12         | 63.95                   |
| 33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,636.14<br>65.45         | 63.95                   |
| 33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,508.02<br>60.32         | 66.51                   |
| 33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,641.21<br>65.65         | 66.51                   |
| 33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,907.58<br>76.30         | 66.51                   |
| 33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,794.68<br>71.79         | 76.74                   |
| 33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 2,115.78<br>84.63         | 104.37                  |
| 33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,641.21<br>65.65         | 66.51                   |
| 33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,794.68<br>71.79         | 76.74                   |
| 33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 1,927.86<br>77.11         | 76.74                   |
| 33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 2,111.72<br>84.47         | 102.32                  |
| 33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 2,244.91<br>89.80         | 102.32                  |
| 33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 2,561.98<br>102.48        | 127.91                  |
| 33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 2,266.70<br>90.67         | 102.32                  |
| 33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>   | 2,602.06<br>104.08        | 127.91                  |
| 33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 2,573.08<br>102.92        | 127.91                  |
| 33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 2,731.23<br>109.25        | 127.91                  |
| 33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 2,940.08<br>117.60        | 153.48                  |
| 33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 3,098.23<br>123.93        | 153.48                  |
| 33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 3,256.41<br>130.26        | 153.48                  |
| 33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 3,414.56<br>136.58        | 153.48                  |
| 33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 3,411.43<br>136.46        | 179.06                  |
| 33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 3,591.19<br>143.65        | 179.06                  |
| 33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 3,950.79<br>158.03        | 179.06                  |
| 33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i>  | 4,310.38<br>172.42        | 179.06                  |
| 33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i> | 5,160.19<br>206.41        | 204.64                  |
| 33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways .....<br><i>For Each LF Of Cut-Off Section, Add</i> | 6,518.63<br>260.75        | 204.64                  |

**33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)**

|                  |  |           |          |
|------------------|--|-----------|----------|
| 33 42 23 00-0001 | <b>Headwalls</b> (33 42 23)<br>Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts. |           |          |
| 33 42 23 00-0002 | <b>Cast In Place Concrete Headwalls</b> (33 42 23 00-0001)<br>Note: Includes concrete, forms, rebar (where required), finish and curing.   |           |          |
| 33 42 23 00-0003 | <b>Skewed Wingwall, Cast In Place Concrete Headwall</b> (33 42 23 00-0002)<br>Note: Sized by pipe diameter.                                |           |          |
| 33 42 23 00-0004 | EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 1,631.54  | 687.95   |
| 33 42 23 00-0005 | EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 2,051.77  | 733.81   |
| 33 42 23 00-0006 | EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 2,687.66  | 961.19   |
| 33 42 23 00-0007 | EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 4,229.61  | 1,375.89 |
| 33 42 23 00-0008 | EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 5,891.31  | 1,834.52 |
| 33 42 23 00-0009 | EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 7,011.93  | 2,418.11 |
| 33 42 23 00-0010 | EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 9,592.30  | 3,335.48 |
| 33 42 23 00-0011 | EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 11,410.52 | 3,931.08 |
| 33 42 23 00-0012 | EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 13,717.88 | 4,785.77 |
| 33 42 23 00-0013 | EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....   | 16,439.31 | 5,793.24 |

**33 42 23 00-0014 Precast Concrete Headwalls** (33 42 23 00-0001)

|                  |   |        |        |
|------------------|---|--------|--------|
| 33 42 23 00-0015 | EA 12" Pipe, Precast Concrete Headwall..... | 938.52 | 171.47 |
| 33 42 23 00-0016 | EA 15" Pipe, Precast Concrete Headwall..... | 967.10 | 180.99 |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall .....  | 1,062.89                  | 205.77                  |
| 33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall .....  | 1,176.71                  | 219.10                  |
| 33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall .....  | 1,603.92                  | 257.21                  |
| 33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall .....  | 1,795.50                  | 266.73                  |
| 33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall .....  | 2,380.92                  | 315.76                  |
| 33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall .....  | 2,634.94                  | 347.89                  |
| 33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall .....  | 2,913.04                  | 368.35                  |
| 33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall .....  | 3,314.84                  | 368.35                  |
| 33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall .....  | 4,036.57                  | 460.44                  |
| 33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall .....  | 5,768.34                  | 552.53                  |
| <b>33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)</b>  |                           |                         |
| 33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall .....   | 5,772.70                  | 1,823.34                |
| Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.                    |                           |                         |
| 33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall .....   | 6,079.67                  | 2,025.94                |
| Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.                    |                           |                         |
| 33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall .....   | 6,591.27                  | 2,363.59                |
| Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.                    |                           |                         |
| 33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall .....   | 7,102.87                  | 2,701.25                |
| Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.               |                           |                         |
| 33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall .....   | 7,102.87                  | 2,701.25                |
| Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.                    |                           |                         |
| 33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall .....   | 7,307.50                  | 2,836.32                |
| Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.                    |                           |                         |
| 33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall .....   | 13,367.34                 | 2,903.84                |
| Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.                    |                           |                         |
| 33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall .....   | 13,674.31                 | 3,106.44                |
| Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.               |                           |                         |
| <b>33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)</b>                        |                           |                         |
| 33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate .....    | 4,203.57                  | 716.24                  |
| <b>33 42 26 End Sections for Stormwater Piping (33 42)</b>   |                           |                         |
| <b>33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)</b>                                  |                           |                         |
| <b>33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)</b>   |                           |                         |
| <b>33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)</b>                           |                           |                         |
| <b>33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)</b>                    |                           |                         |
| Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut. |                           |                         |
| 33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....                        | 268.33                    | 66.68                   |
| 33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....                        | 311.71                    | 71.45                   |
| 33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....                        | 364.25                    | 76.21                   |
| 33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....                        | 441.55                    | 83.35                   |
| 33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....                        | 489.20                    | 90.50                   |
| <b>33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)</b>                    |                           |                         |
| Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.       |                           |                         |
| 33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....                        | 790.85                    | 102.41                  |
| 33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....                        | 1,029.14                  | 122.78                  |
| 33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....                        | 1,580.87                  | 143.25                  |
| 33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....                        | 1,931.54                  | 163.72                  |
| 33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....                        | 2,300.67                  | 204.64                  |
| 33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....                        | 2,686.62                  | 245.57                  |
| <b>33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)</b>               |                           |                         |
| Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.             |                           |                         |
| 33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 280.39                    | 66.68                   |
| 33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 324.11                    | 71.45                   |
| 33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 383.31                    | 76.21                   |
| 33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 464.44                    | 83.35                   |
| 33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 515.16                    | 90.50                   |
| 33 42 26 16-0022 EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 870.54                    | 102.41                  |
| 33 42 26 16-0023 EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 1,127.61                  | 122.78                  |
| 33 42 26 16-0024 EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 1,796.95                  | 143.25                  |
| 33 42 26 16-0025 EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 2,210.39                  | 163.72                  |
| 33 42 26 16-0026 EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 2,582.67                  | 204.64                  |
| 33 42 26 16-0027 EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 3,579.76                  | 245.57                  |
| 33 42 26 16-0028 EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 4,060.70                  | 368.35                  |
| 33 42 26 16-0029 EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 4,750.51                  | 491.14                  |
| 33 42 26 16-0030 EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 5,174.77                  | 526.95                  |
| 33 42 26 16-0031 EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section .....                   | 5,609.33                  | 562.77                  |
| <b>33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)</b>   |                           |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 26 16-0033 EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 35.07                     |                         |
| 33 42 26 16-0034 EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 39.12                     |                         |
| 33 42 26 16-0035 EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 44.09                     |                         |
| 33 42 26 16-0036 EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 47.94                     |                         |
| 33 42 26 16-0037 EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 53.68                     |                         |
| 33 42 26 16-0038 EA Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 93.95                     |                         |
| 33 42 26 16-0039 EA Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 101.09                    |                         |
| 33 42 26 16-0040 EA Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 138.66                    |                         |
| 33 42 26 16-0041 EA Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 148.38                    |                         |
| 33 42 26 16-0042 EA Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 181.26                    |                         |
| 33 42 26 16-0043 EA Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 185.63                    |                         |
| 33 42 26 16-0044 EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 198.03                    |                         |
| 33 42 26 16-0045 EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 224.91                    |                         |
| 33 42 26 16-0046 EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section .....           | 251.59                    |                         |
| 33 42 26 16-0047 EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....                | 257.68                    |                         |
| <b>33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)</b>                         |                           |                         |
| <b>33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)</b>                  |                           |                         |
| Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.    |                           |                         |
| 33 42 26 16-0050 EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 311.71                    | 71.45                   |
| 33 42 26 16-0051 EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 364.25                    | 76.21                   |
| 33 42 26 16-0052 EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 441.55                    | 83.35                   |
| 33 42 26 16-0053 EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 489.20                    | 90.50                   |
| <b>33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)</b>                  |                           |                         |
| Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.          |                           |                         |
| 33 42 26 16-0055 EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 301.29                    | 71.45                   |
| 33 42 26 16-0056 EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 345.00                    | 76.21                   |
| 33 42 26 16-0057 EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 386.43                    | 83.35                   |
| 33 42 26 16-0058 EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 436.57                    | 90.50                   |
| 33 42 26 16-0059 EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 640.80                    | 102.41                  |
| 33 42 26 16-0060 EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 938.48                    | 122.78                  |
| 33 42 26 16-0061 EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 1,462.25                  | 143.25                  |
| 33 42 26 16-0062 EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....                 | 1,852.49                  | 163.72                  |
| <b>33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)</b>             |                           |                         |
| Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.                |                           |                         |
| 33 42 26 16-0064 EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 306.58                    | 71.45                   |
| 33 42 26 16-0065 EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 356.48                    | 76.21                   |
| 33 42 26 16-0066 EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 404.38                    | 83.35                   |
| 33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 457.85                    | 90.50                   |
| 33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 676.97                    | 102.41                  |
| 33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 987.82                    | 122.78                  |
| 33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 1,541.18                  | 143.25                  |
| 33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 1,943.33                  | 163.72                  |
| 33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 2,337.99                  | 204.64                  |
| 33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 3,074.14                  | 245.57                  |
| 33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 4,289.89                  | 368.35                  |
| 33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....            | 4,747.45                  | 491.14                  |
| <b>33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)</b> |                           |                         |
| 33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 39.12                     |                         |
| 33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 44.09                     |                         |
| 33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 47.94                     |                         |
| 33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 53.68                     |                         |
| 33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 93.95                     |                         |
| 33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 101.09                    |                         |
| 33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 138.66                    |                         |
| 33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 154.36                    |                         |
| 33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 181.26                    |                         |
| 33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 188.00                    |                         |
| 33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 217.40                    |                         |
| 33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section.....          | 246.23                    |                         |
| <b>33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)</b>                                      |                           |                         |
| <b>33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)</b>                                      |                           |                         |
| 33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 408.48                    | 66.68                   |
| 33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 471.28                    | 71.45                   |
| 33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 559.54                    | 76.21                   |
| 33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 694.72                    | 83.35                   |
| 33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 909.08                    | 90.50                   |
| 33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 1,366.42                  | 102.41                  |
| 33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section.....                                  | 1,861.55                  | 122.78                  |





| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....                                    | 2,320.08                  | 122.78                  |
| 33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....                                    | 2,960.39                  | 143.25                  |
| 33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....                                    | 4,229.11                  | 163.72                  |
| 33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....                                    | 4,682.34                  | 204.64                  |
| 33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 6,313.87                  | 245.57                  |
| 33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 7,143.06                  | 368.35                  |
| 33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 8,349.10                  | 491.14                  |
| 33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 9,119.52                  | 526.95                  |
| 33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 9,622.13                  | 562.77                  |
| 33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 13,178.48                 | 613.92                  |
| 33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....                             | 14,590.46                 | 665.08                  |
| <b>33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)</b>                 |                           |                         |
| 33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....           | 63.94                     |                         |
| 33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....           | 67.84                     |                         |
| 33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....           | 73.68                     |                         |
| 33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....           | 83.02                     |                         |
| 33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....           | 88.03                     |                         |
| 33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....           | 113.92                    |                         |
| 33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....           | 136.17                    |                         |
| 33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....           | 143.83                    |                         |
| 33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....           | 157.78                    |                         |
| 33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....           | 178.34                    |                         |
| 33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....           | 210.99                    |                         |
| 33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 296.20                    |                         |
| 33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 318.69                    |                         |
| 33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 403.07                    |                         |
| 33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 436.10                    |                         |
| 33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 464.64                    |                         |
| 33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 494.67                    |                         |
| 33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....    | 525.01                    |                         |
| <b>33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)</b>                                    |                           |                         |
| <b>33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)</b>                                    |                           |                         |
| 33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 486.10                    | 71.45                   |
| 33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 595.67                    | 76.21                   |
| 33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 646.80                    | 83.35                   |
| 33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 697.88                    | 90.50                   |
| 33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 1,049.62                  | 102.41                  |
| 33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 1,882.62                  | 122.78                  |
| 33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 1,998.88                  | 122.78                  |
| 33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 2,673.65                  | 143.25                  |
| 33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 4,117.45                  | 163.72                  |
| 33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                                  | 4,712.66                  | 204.64                  |
| 33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                           | 5,698.20                  | 245.57                  |
| 33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                           | 9,549.61                  | 368.35                  |
| 33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                           | 10,013.46                 | 491.14                  |
| 33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                           | 10,903.63                 | 526.95                  |
| 33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                           | 11,379.46                 | 562.77                  |
| 33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                          | 12,403.65                 | 613.92                  |
| 33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....                          | 13,138.82                 | 665.08                  |
| <b>33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)</b>            |                           |                         |
| 33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 67.84                     |                         |
| 33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 73.68                     |                         |
| 33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 77.66                     |                         |
| 33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 85.08                     |                         |
| 33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 97.08                     |                         |
| 33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 126.49                    |                         |
| 33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 138.70                    |                         |
| 33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 157.78                    |                         |
| 33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 178.34                    |                         |
| 33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....         | 210.99                    |                         |
| 33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....  | 269.04                    |                         |
| 33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....  | 341.43                    |                         |
| 33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....  | 459.91                    |                         |
| 33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....  | 522.62                    |                         |
| 33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....  | 547.17                    |                         |
| 33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section ..... | 567.09                    |                         |
| 33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section ..... | 591.54                    |                         |
| <b>33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)</b>                  |                           |                         |
| <b>33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)</b>  |                           |                         |
| 33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....  | 628.44                    | 71.45                   |



|                       |           |           |
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| <b>Utilities</b>      | <b>33</b> | <b>CS</b> |
| Stormwater Utilities  | 33 40     |           |
| Stormwater Conveyance | 33 42     |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....   | 811.45                    | 76.21                   |
| 33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....   | 994.93                    | 83.35                   |
| 33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....   | 1,191.48                  | 90.50                   |
| 33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....   | 1,259.68                  | 102.41                  |
| 33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....   | 1,649.85                  | 122.78                  |
| 33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section .....   | 2,616.37                  | 143.25                  |
| <b>33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>      |                           |                         |
| Note: Includes nut and bolt set.  |                           |                         |
| 33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section .....                                   | 449.99                    |                         |
| 33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section .....                                   | 906.98                    |                         |
| 33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section .....                                   | 995.32                    |                         |
| 33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section .....                                   | 1,034.50                  |                         |
| <b>33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>  |                           |                         |
| 33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 658.55                    | 71.45                   |
| 33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 865.61                    | 76.21                   |
| 33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 1,154.29                  | 83.35                   |
| 33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 1,357.12                  | 90.50                   |
| 33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 1,611.30                  | 102.41                  |
| 33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 1,960.21                  | 122.78                  |
| 33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section .....   | 3,004.68                  | 143.25                  |
| <b>33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>      |                           |                         |
| Note: Includes nut and bolt set.  |                           |                         |
| 33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section .....                                   | 879.62                    |                         |
| 33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section .....                                   | 933.18                    |                         |
| 33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section .....                                   | 1,026.28                  |                         |
| 33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section .....                                   | 1,077.36                  |                         |
| <b>33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section</b> <small>(33 42 26 16-0165)</small>            |                           |                         |
| 33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section .....   | 75.81                     |                         |
| 33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section .....   | 85.25                     |                         |
| 33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section .....   | 92.80                     |                         |
| 33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section .....   | 103.68                    |                         |
| 33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section .....   | 157.08                    |                         |
| 33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section .....   | 168.61                    |                         |
| 33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section .....   | 227.07                    |                         |
| <b>33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories</b> <small>(33 42 26 16-0001)</small>               |                           |                         |
| <b>33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section</b> <small>(33 42 26 16-0200)</small>                                      |                           |                         |
| 33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section .....  | 748.03                    | 76.21                   |
| 33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section .....  | 940.29                    | 83.35                   |
| 33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section .....  | 1,114.11                  | 90.50                   |
| 33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section .....  | 2,109.18                  | 102.41                  |
| <b>33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections</b> <small>(33 42 26 16-0200)</small> |                           |                         |
| Note: Includes nut and bolt set.  |                           |                         |
| 33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section .....                        | 536.77                    |                         |
| 33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section .....                        | 982.05                    |                         |
| 33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section .....                        | 1,034.50                  |                         |
| 33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section .....                        | 1,524.93                  |                         |
| <b>33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section</b> <small>(33 42 26 16-0200)</small>       |                           |                         |
| 33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section .....                              | 76.60                     |                         |
| 33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section .....                              | 87.01                     |                         |
| 33 42 26 16-0214 EA Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section .....                              | 94.86                     |                         |
| 33 42 26 16-0215 EA Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section .....                              | 112.73                    |                         |
| <b>33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping</b> <small>(33 42 26)</small>               |                           |                         |
| <b>33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections</b> <small>(33 42 26 19)</small>                        |                           |                         |
| 33 42 26 19-0002 EA 4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 69.11                     | 21.98                   |
| 33 42 26 19-0003 EA 6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 131.32                    | 32.98                   |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 26 19-0004 EA 8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe .....  | 179.44                    | 41.22                   |
| 33 42 26 19-0005 EA 10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 282.28                    | 65.96                   |
| 33 42 26 19-0006 EA 12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 336.56                    | 74.20                   |
| 33 42 26 19-0007 EA 15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 356.96                    | 79.70                   |
| 33 42 26 19-0008 EA 18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 427.52                    | 87.95                   |
| 33 42 26 19-0009 EA 24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 555.37                    | 104.43                  |
| 33 42 26 19-0010 EA 30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 1,176.76                  | 118.17                  |
| 33 42 26 19-0011 EA 36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe ..... | 1,439.36                  | 131.91                  |

**33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)****33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)****33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)**

|   |          |          |
|---|----------|----------|
| 33 42 26 23-0003 EA 12" Diameter Pipe, Precast Concrete End Section ..... | 663.27   | 111.75   |
| 33 42 26 23-0004 EA 15" Diameter Pipe, Precast Concrete End Section ..... | 890.26   | 138.32   |
| 33 42 26 23-0005 EA 18" Diameter Pipe, Precast Concrete End Section ..... | 1,102.33 | 175.09   |
| 33 42 26 23-0006 EA 21" Diameter Pipe, Precast Concrete End Section ..... | 1,265.09 | 209.39   |
| 33 42 26 23-0007 EA 24" Diameter Pipe, Precast Concrete End Section ..... | 1,344.73 | 242.34   |
| 33 42 26 23-0008 EA 27" Diameter Pipe, Precast Concrete End Section ..... | 1,694.80 | 304.92   |
| 33 42 26 23-0009 EA 30" Diameter Pipe, Precast Concrete End Section ..... | 2,101.98 | 457.98   |
| 33 42 26 23-0010 EA 36" Diameter Pipe, Precast Concrete End Section ..... | 2,595.56 | 577.91   |
| 33 42 26 23-0011 EA 42" Diameter Pipe, Precast Concrete End Section ..... | 3,140.81 | 724.94   |
| 33 42 26 23-0012 EA 48" Diameter Pipe, Precast Concrete End Section ..... | 3,442.76 | 817.54   |
| 33 42 26 23-0013 EA 54" Diameter Pipe, Precast Concrete End Section ..... | 3,756.65 | 915.76   |
| 33 42 26 23-0014 EA 60" Diameter Pipe, Precast Concrete End Section ..... | 4,076.47 | 1,018.09 |
| 33 42 26 23-0015 EA 66" Diameter Pipe Precast Concrete End Section .....  | 4,049.93 | 812.10   |
| 33 42 26 23-0016 EA 72" Diameter Pipe Precast Concrete End Section .....  | 4,639.42 | 1,015.11 |
| 33 42 26 23-0017 EA 78" Diameter Pipe Precast Concrete End Section .....  | 5,516.69 | 1,268.89 |
| 33 42 26 23-0018 EA 84" Diameter Pipe Precast Concrete End Section .....  | 6,527.92 | 1,522.66 |

**33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)**

|  |          |          |
|--|----------|----------|
| 33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section ..... | 835.05   | 119.20   |
| 33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section ..... | 1,005.69 | 148.57   |
| 33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section ..... | 1,221.11 | 188.06   |
| 33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section ..... | 1,395.56 | 224.90   |
| 33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section ..... | 1,702.58 | 260.30   |
| 33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section ..... | 2,055.55 | 415.72   |
| 33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section ..... | 2,141.79 | 572.38   |
| 33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section ..... | 2,892.64 | 722.38   |
| 33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section ..... | 3,472.03 | 906.35   |
| 33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section ..... | 3,757.84 | 1,022.18 |
| 33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section ..... | 4,203.22 | 1,144.86 |
| 33 42 26 23-0031 EA 60" Diameter Pipe, Flared Precast Concrete End Section ..... | 4,657.05 | 1,271.64 |
| 33 42 26 23-0032 EA 66" Diameter Pipe, Flared Precast Concrete End Section ..... | 5,431.48 | 1,465.12 |
| 33 42 26 23-0033 EA 72" Diameter Pipe, Flared Precast Concrete End Section ..... | 6,333.47 | 1,635.29 |
| 33 42 26 23-0034 EA 78" Diameter Pipe, Flared Precast Concrete End Section ..... | 7,181.59 | 1,839.62 |
| 33 42 26 23-0035 EA 84" Diameter Pipe, Flared Precast Concrete End Section ..... | 8,282.57 | 2,043.75 |

**33 42 26 23-0036 Elliptical Precast Concrete End Sections (33 42 26 23-0001)**

|   |          |          |
|---|----------|----------|
| 33 42 26 23-0037 EA 14" x 23" Elliptical Precast Concrete End Section ..... | 1,455.79 | 188.06   |
| 33 42 26 23-0038 EA 19" x 30" Elliptical Precast Concrete End Section ..... | 2,030.51 | 260.30   |
| 33 42 26 23-0039 EA 22" x 34" Elliptical Precast Concrete End Section ..... | 2,413.40 | 415.72   |
| 33 42 26 23-0040 EA 24" x 38" Elliptical Precast Concrete End Section ..... | 2,462.35 | 572.38   |
| 33 42 26 23-0041 EA 27" x 42" Elliptical Precast Concrete End Section ..... | 2,903.51 | 647.69   |
| 33 42 26 23-0042 EA 29" x 45" Elliptical Precast Concrete End Section ..... | 3,344.66 | 722.38   |
| 33 42 26 23-0043 EA 34" x 53" Elliptical Precast Concrete End Section ..... | 3,999.88 | 906.35   |
| 33 42 26 23-0044 EA 38" x 60" Elliptical Precast Concrete End Section ..... | 4,313.62 | 1,022.18 |
| 33 42 26 23-0045 EA 43" x 68" Elliptical Precast Concrete End Section ..... | 4,824.32 | 1,144.86 |
| 33 42 26 23-0046 EA 48" x 76" Elliptical Precast Concrete End Section ..... | 5,343.82 | 1,271.64 |

**33 42 26 23-0047 Mitered Precast Concrete End Sections (33 42 26 23-0001)**

|  |          |        |
|--|----------|--------|
| 33 42 26 23-0048 EA 12" Round Mitered Precast Concrete End Sections .....            | 503.76   | 119.20 |
| 33 42 26 23-0049 EA 15" Round Mitered Precast Concrete End Sections .....            | 546.73   | 148.57 |
| 33 42 26 23-0050 EA 18" Round Mitered Precast Concrete End Sections .....            | 658.14   | 188.06 |
| 33 42 26 23-0051 EA 24" Round Mitered Precast Concrete End Sections .....            | 954.48   | 260.30 |
| 33 42 26 23-0052 EA 12" x 18" Elliptical Mitered Precast Concrete End Sections ..... | 587.48   | 148.57 |
| 33 42 26 23-0053 EA 14" x 23" Elliptical Mitered Precast Concrete End Sections ..... | 730.57   | 188.06 |
| 33 42 26 23-0054 EA 19" x 30" Elliptical Mitered Precast Concrete End Sections ..... | 1,042.74 | 260.30 |

**33 42 31 Stormwater Area Drains and Inlets (33 42)****33 42 31 00-0001 Storm Drains (33 42 31)**

See CSI section 33 05 61 00-0001 for manhole structures.

**33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)**

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.



|  |                              |              |
|--|------------------------------|--------------|
|  | <b>Utilities</b>             | <b>33</b>    |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>33 42 31 00-0003</b> Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0002)</small><br>Note: Inside dimensions.   |                           |                         |
| <b>33 42 31 00-0004</b> 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>  |                           |                         |
| 33 42 31 00-0005 EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 1,960.03                  | 338.37                  |
| 33 42 31 00-0006 EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 2,349.82                  | 396.46                  |
| 33 42 31 00-0007 EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 2,739.62                  | 454.45                  |
| 33 42 31 00-0008 EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 3,129.42                  | 512.55                  |
| 33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 3,519.22                  | 570.54                  |
| <b>33 42 31 00-0010</b> 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>  |                           |                         |
| 33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 2,618.60                  | 336.33                  |
| 33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 3,216.71                  | 448.44                  |
| 33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 4,068.28                  | 611.51                  |
| 33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 4,984.94                  | 713.43                  |
| 33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 5,664.11                  | 815.34                  |
| <b>33 42 31 00-0016</b> 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins <small>(33 42 31 00-0003)</small>  |                           |                         |
| 33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 2,820.38                  | 366.91                  |
| 33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 3,911.47                  | 509.59                  |
| 33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 4,734.31                  | 662.47                  |
| 33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 5,465.82                  | 764.38                  |
| 33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....  | 6,922.75                  | 978.41                  |
| <b>33 42 31 00-0022</b> Cast In Place, Catch Basin <small>(33 42 31 00-0002)</small><br>Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing. |                           |                         |
| <b>33 42 31 00-0023</b> 3' x 3', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>   |                           |                         |
| 33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....   | 2,398.25                  | 409.10                  |
| 33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....  | 2,541.19                  | 434.99                  |
| 33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....   | 2,786.13                  | 467.19                  |
| 33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 3,146.06                  | 517.13                  |
| 33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 3,402.83                  | 550.46                  |
| 33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 3,560.85                  | 577.26                  |
| 33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 3,817.81                  | 610.59                  |
| 33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 3,971.89                  | 637.50                  |
| 33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 4,230.39                  | 670.73                  |
| 33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 4,386.89                  | 697.63                  |
| 33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 4,643.75                  | 730.95                  |
| 33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 580.50                    | 91.32                   |
| <b>33 42 31 00-0036</b> 3'-6" x 3'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>   |                           |                         |
| 33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....   | 2,755.46                  | 472.90                  |
| 33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....  | 2,935.90                  | 506.12                  |
| 33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....   | 3,191.33                  | 539.46                  |
| 33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....  | 3,612.22                  | 597.45                  |
| 33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 3,893.14                  | 635.16                  |
| 33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....  | 4,075.12                  | 666.45                  |
| 33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 4,329.79                  | 704.15                  |
| 33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....  | 4,541.77                  | 735.44                  |
| 33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 4,824.11                  | 773.15                  |
| 33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....  | 5,006.89                  | 804.44                  |
| 33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 5,289.33                  | 842.15                  |
| 33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 661.20                    | 105.28                  |
| <b>33 42 31 00-0049</b> 4' x 4', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>   |                           |                         |
| 33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin .....   | 3,137.73                  | 540.98                  |
| 33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin .....  | 3,328.67                  | 575.33                  |
| 33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin .....   | 3,620.09                  | 615.99                  |
| 33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 4,102.56                  | 682.14                  |
| 33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 4,411.28                  | 724.23                  |
| 33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 4,619.42                  | 760.00                  |
| 33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 4,928.15                  | 802.10                  |
| 33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 5,135.51                  | 837.87                  |
| 33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 5,444.23                  | 879.96                  |
| 33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....  | 5,652.38                  | 915.73                  |
| 33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 5,961.10                  | 957.93                  |
| 33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....   | 745.11                    | 119.76                  |
| <b>33 42 31 00-0062</b> 4'-6" x 4'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>   |                           |                         |
| 33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....   | 3,617.37                  | 627.30                  |
| 33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....  | 3,839.82                  | 662.78                  |
| 33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....   | 4,160.53                  | 708.64                  |
| 33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....  | 4,710.96                  | 783.86                  |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 5,051.91                  | 831.35                  |
| 33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 5,292.38                  | 872.42                  |
| 33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 5,634.11                  | 919.91                  |
| 33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 5,874.59                  | 961.09                  |
| 33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 6,215.54                  | 1,008.58                |
| 33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 6,454.47                  | 1,049.66                |
| 33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 6,797.74                  | 1,097.15                |
| 33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....  | 849.76                    | 137.18                  |
| <b>33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)</b>                |                           |                         |
| 33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin.....          | 4,653.71                  | 795.67                  |
| 33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 5,266.82                  | 879.25                  |
| 33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 5,635.97                  | 931.33                  |
| 33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 5,903.14                  | 976.98                  |
| 33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 6,268.44                  | 1,028.97                |
| 33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 6,537.12                  | 1,074.62                |
| 33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 6,904.75                  | 1,126.71                |
| 33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 7,169.59                  | 1,172.37                |
| 33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 7,538.75                  | 1,224.34                |
| 33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....        | 1,401.70                  | 153.08                  |
| <b>33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>          |                           |                         |
| 33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....    | 5,170.15                  | 887.30                  |
| 33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 6,031.23                  | 1,004.41                |
| 33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 6,437.72                  | 1,062.29                |
| 33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....    | 6,742.20                  | 1,114.17                |
| 33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 7,151.01                  | 1,172.47                |
| 33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 7,457.03                  | 1,224.34                |
| 33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 7,863.51                  | 1,282.64                |
| 33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 8,168.00                  | 1,334.51                |
| 33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 8,574.49                  | 1,392.81                |
| 33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....  | 1,071.80                  | 174.08                  |
| <b>33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)</b>                |                           |                         |
| 33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin.....          | 5,714.41                  | 983.21                  |
| 33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 6,663.16                  | 1,111.72                |
| 33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 7,098.48                  | 1,174.71                |
| 33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 7,431.00                  | 1,231.28                |
| 33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 7,864.77                  | 1,294.26                |
| 33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 8,199.61                  | 1,350.82                |
| 33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 8,632.61                  | 1,413.81                |
| 33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 8,965.92                  | 1,470.38                |
| 33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 9,401.24                  | 1,533.36                |
| 33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....        | 1,175.20                  | 191.71                  |
| <b>33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>          |                           |                         |
| 33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....    | 6,282.61                  | 1,083.70                |
| 33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 7,553.75                  | 1,255.53                |
| 33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 8,029.87                  | 1,325.25                |
| 33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 8,405.41                  | 1,388.53                |
| 33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 8,881.52                  | 1,458.15                |
| 33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 9,257.07                  | 1,521.54                |
| 33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 9,733.18                  | 1,591.15                |
| 33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 10,108.72                 | 1,654.44                |
| 33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 10,587.16                 | 1,724.15                |
| 33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....  | 1,323.34                  | 215.56                  |
| <b>33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)</b>                |                           |                         |
| 33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin.....          | 6,876.49                  | 1,188.57                |
| 33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 8,267.26                  | 1,376.10                |
| 33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 8,772.81                  | 1,450.70                |
| 33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 9,175.57                  | 1,518.79                |
| 33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 9,682.56                  | 1,593.29                |
| 33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 10,085.31                 | 1,661.47                |
| 33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 10,590.87                 | 1,735.97                |
| 33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....       | 10,995.16                 | 1,804.15                |
| 33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....          | 11,500.61                 | 1,878.66                |
| 33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....        | 1,437.63                  | 234.82                  |
| <b>33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>          |                           |                         |
| 33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....    | 7,760.73                  | 1,334.01                |
| 33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 9,010.31                  | 1,501.56                |
| 33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....    | 9,542.97                  | 1,580.96                |
| 33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin..... | 9,976.70                  | 1,653.93                |



|                              |              |           |
|------------------------------|--------------|-----------|
| <b>Utilities</b>             | <b>33</b>    | <b>CS</b> |
| <b>Stormwater Utilities</b>  | <b>33 40</b> |           |
| <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....      | 10,510.81                 | 1,733.32                |
| 33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 10,944.54                 | 1,806.30                |
| 33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....      | 11,477.20                 | 1,885.69                |
| 33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....   | 11,910.94                 | 1,958.66                |
| 33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....      | 12,445.15                 | 2,038.06                |
| 33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....    | 1,555.61                  | 254.79                  |
| <b>33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)</b>                   |                           |                         |
| 33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin .....            | 8,430.91                  | 1,451.42                |
| 33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....         | 9,780.35                  | 1,631.92                |
| 33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....            | 10,341.77                 | 1,716.10                |
| 33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....         | 10,804.94                 | 1,793.97                |
| 33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....            | 11,366.26                 | 1,878.15                |
| 33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....         | 11,826.36                 | 1,956.01                |
| 33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....            | 12,390.75                 | 2,040.20                |
| 33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....         | 12,853.91                 | 2,118.07                |
| 33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....            | 13,406.19                 | 2,202.25                |
| 33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....          | 1,676.90                  | 275.28                  |
| <b>33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)</b>                          |                           |                         |
| Note: Inside dimensions.  |                           |                         |
| <b>33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)</b>                    |                           |                         |
| 33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins.....                             | 771.53                    | 208.67                  |
| 33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins.....                             | 1,058.13                  | 313.01                  |
| 33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins.....                             | 1,328.16                  | 406.91                  |
| 33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins.....                            | 1,597.56                  | 480.98                  |
| 33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins.....                            | 1,954.41                  | 610.36                  |
| 33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins.....                            | 2,231.41                  | 704.26                  |
| 33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins..... | 154.21                    | 46.95                   |
| <b>33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)</b>                       |                           |                         |
| 33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin.....                                 | 882.98                    | 232.14                  |
| 33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin.....                                 | 1,204.13                  | 344.31                  |
| 33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin.....                                 | 1,506.00                  | 453.86                  |
| 33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin.....                                | 1,806.58                  | 529.50                  |
| 33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin.....                                | 2,221.59                  | 678.18                  |
| 33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin.....                                | 2,533.37                  | 782.52                  |
| 33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin.....     | 175.04                    | 56.34                   |
| <b>33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)</b>                       |                           |                         |
| 33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin.....                                 | 1,190.64                  | 273.88                  |
| 33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin.....                                 | 1,601.48                  | 404.82                  |
| 33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin.....                                 | 1,991.74                  | 534.72                  |
| 33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin.....                                | 2,480.81                  | 667.75                  |
| 33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin.....                                | 2,923.09                  | 796.08                  |
| 33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin.....                                | 3,346.41                  | 926.50                  |
| 33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin.....     | 228.35                    | 66.17                   |
| <b>33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)</b>                       |                           |                         |
| 33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin.....                                 | 1,460.53                  | 304.66                  |
| 33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin.....                                 | 1,883.47                  | 417.34                  |
| 33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin.....                                 | 2,471.38                  | 626.01                  |
| 33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin.....                                | 3,083.48                  | 782.52                  |
| 33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin.....                                | 3,634.87                  | 939.02                  |
| 33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin.....                                | 4,163.93                  | 1,095.53                |
| 33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin.....     | 283.38                    | 78.25                   |
| <b>33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)</b>                       |                           |                         |
| 33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin.....                                 | 1,960.80                  | 417.34                  |
| 33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin.....                                 | 2,643.23                  | 626.01                  |
| 33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin.....                                 | 3,328.72                  | 834.68                  |
| 33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin.....                                | 4,056.57                  | 1,043.36                |
| 33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin.....                                | 4,770.29                  | 1,252.02                |
| 33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin.....                                | 5,543.88                  | 1,460.70                |
| 33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin.....     | 376.89                    | 104.34                  |
| <b>33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)</b>                       |                           |                         |
| 33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin.....                                 | 2,858.04                  | 626.01                  |
| 33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin.....                                 | 3,806.72                  | 939.02                  |
| 33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin.....                                 | 4,831.73                  | 1,252.02                |
| 33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin.....                                | 6,018.18                  | 1,565.03                |
| 33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin.....                                | 7,161.67                  | 1,878.04                |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin .....                             | 8,270.35                  | 2,191.04                |
| 33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin .....  | 561.09                    | 156.51                  |
| <b>33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)</b>                     |                           |                         |
| 33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....                             | 1,494.45                  | 678.18                  |
| 33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....                                  | 860.00                    | 83.47                   |
| 33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....         | 450.90                    | 88.68                   |
| 33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring .....                    | 548.57                    | 130.42                  |
| For Each Additional Inch In Height, Add   | 69.68                     |                         |
| 33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring .....                    | 645.05                    | 156.51                  |
| For Each Additional Inch In Height, Add   | 81.40                     |                         |
| 33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring .....                    | 752.62                    | 182.59                  |
| For Each Additional Inch In Height, Add   | 95.04                     |                         |
| 33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring .....                    | 917.53                    | 260.84                  |
| For Each Additional Inch In Height, Add   | 109.50                    |                         |
| 33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....                 | 625.98                    |                         |
| <b>33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)</b>                                   |                           |                         |
| 33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser .....               | 401.79                    |                         |
| 33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....             | 449.72                    |                         |
| 33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....                    | 506.76                    |                         |
| 33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser .....              | 432.71                    |                         |
| 33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....            | 483.85                    |                         |
| 33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser .....                  | 547.07                    |                         |
| 33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser .....              | 479.21                    |                         |
| 33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....            | 524.60                    |                         |
| 33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....                   | 588.02                    |                         |
| <b>33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)</b>                  |                           |                         |
| Note: Inside span.  |                           |                         |
| 33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout ..... | 5,094.62                  | 806.99                  |
| 33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout ..... | 5,794.10                  | 920.93                  |
| 33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout ..... | 6,571.55                  | 1,045.17                |
| 33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout ..... | 7,890.55                  | 1,253.80                |
| 33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout ..... | 9,560.16                  | 1,513.69                |
| <b>33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)</b>                         |                           |                         |
| Note: Inside dimensions.  |                           |                         |
| <b>33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)</b>                         |                           |                         |
| <b>33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>           |                           |                         |
| Note: Yard inlet.   |                           |                         |
| <b>33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)</b>           |                           |                         |
| 33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....                   | 815.76                    | 73.03                   |
| 33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....                   | 958.67                    | 88.68                   |
| 33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....                   | 1,101.59                  | 104.34                  |
| 33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....                   | 1,245.81                  | 120.64                  |
| <b>33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)</b>      |                           |                         |
| 33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....              | 200.29                    |                         |
| 33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....             | 327.57                    |                         |
| 33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....             | 465.26                    |                         |
| 33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....             | 602.97                    |                         |
| 33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....             | 740.66                    |                         |
| 33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....             | 878.36                    |                         |
| <b>33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>           |                           |                         |
| <b>33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)</b>           |                           |                         |
| 33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 1,664.30                  | 204.64                  |
| 33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 1,871.29                  | 236.62                  |
| 33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 2,078.27                  | 268.59                  |
| 33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 2,285.41                  | 300.64                  |
| 33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 2,492.55                  | 332.70                  |
| 33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 2,699.68                  | 364.75                  |
| 33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....                   | 2,906.83                  | 396.80                  |
| <b>33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)</b>      |                           |                         |
| 33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....              | 391.90                    |                         |
| 33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....             | 637.73                    |                         |
| 33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....             | 689.94                    |                         |
| 33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....             | 885.15                    |                         |
| 33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....             | 1,080.35                  |                         |



|  |                              |              |           |
|--|------------------------------|--------------|-----------|
|  | <b>Utilities</b>             | <b>33</b>    |           |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> | <b>CS</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,267.49                  |                         |
| 33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,474.48                  |                         |
| 33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,681.46                  |                         |
| 33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,888.60                  |                         |
| 33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,095.74                  |                         |
| 33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,302.87                  |                         |
| 33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,510.01                  |                         |
| <b>33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>      |                           |                         |
| <b>33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)</b>      |                           |                         |
| 33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 1,600.72                  | 225.10                  |
| 33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 1,807.60                  | 260.28                  |
| 33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 2,014.47                  | 295.45                  |
| 33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 2,221.51                  | 330.71                  |
| 33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 2,428.55                  | 365.96                  |
| 33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 2,635.60                  | 401.22                  |
| 33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....              | 2,842.63                  | 436.48                  |
| <b>33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)</b> |                           |                         |
| 33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....        | 387.94                    |                         |
| 33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 624.43                    |                         |
| 33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 677.66                    |                         |
| 33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 868.41                    |                         |
| 33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,059.17                  |                         |
| 33 42 31 00-0278 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,248.91                  |                         |
| 33 42 31 00-0279 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,452.96                  |                         |
| 33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,655.99                  |                         |
| 33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,860.05                  |                         |
| 33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,063.08                  |                         |
| 33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,267.14                  |                         |
| 33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,471.21                  |                         |
| <b>33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>      |                           |                         |
| <b>33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)</b>      |                           |                         |
| 33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 1,907.23                  | 245.57                  |
| 33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 2,150.33                  | 285.47                  |
| 33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 2,393.43                  | 326.41                  |
| 33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 2,635.52                  | 366.30                  |
| 33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 2,878.62                  | 407.23                  |
| 33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 3,121.73                  | 447.14                  |
| 33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....              | 3,363.81                  | 487.05                  |
| <b>33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)</b> |                           |                         |
| 33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....        | 429.62                    |                         |
| 33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 705.78                    |                         |
| 33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 760.52                    |                         |
| 33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 977.53                    |                         |
| 33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,194.55                  |                         |
| 33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,411.56                  |                         |
| 33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,642.39                  |                         |
| 33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 1,873.21                  |                         |
| 33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,104.03                  |                         |
| 33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,334.87                  |                         |
| 33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,565.70                  |                         |
| 33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....       | 2,796.51                  |                         |
| <b>33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)</b>   |                           |                         |
| 33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab.....                 | 1,079.78                  | 153.48                  |
| <b>33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>      |                           |                         |
| <b>33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)</b>      |                           |                         |
| 33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 2,717.57                  | 272.86                  |
| 33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 3,043.89                  | 317.70                  |
| 33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 3,370.22                  | 362.55                  |
| 33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 3,696.20                  | 407.23                  |
| 33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 4,022.19                  | 451.93                  |
| 33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 4,348.18                  | 496.61                  |
| 33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....              | 4,674.18                  | 541.30                  |
| <b>33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)</b> |                           |                         |
| 33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser .....        | 431.02                    |                         |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 694.93                    |                         |
| 33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 1,016.83                  |                         |
| 33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 1,338.72                  |                         |
| 33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 1,643.55                  |                         |
| 33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 1,965.44                  |                         |
| 33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 2,291.77                  |                         |
| 33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 2,618.09                  |                         |
| 33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 2,944.07                  |                         |
| 33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 3,270.06                  |                         |
| 33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 3,596.06                  |                         |
| 33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....         | 3,922.05                  |                         |
| <b>33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)</b>    |                           |                         |
| 33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab .....                 | 1,173.63                  | 166.27                  |
| <b>33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>       |                           |                         |
| <b>33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)</b>       |                           |                         |
| 33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 3,128.34                  | 343.80                  |
| 33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 3,485.89                  | 401.23                  |
| 33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 3,843.43                  | 458.68                  |
| 33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 4,200.35                  | 515.80                  |
| 33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 4,557.26                  | 572.92                  |
| 33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 4,914.17                  | 630.04                  |
| 33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....               | 5,271.08                  | 687.17                  |
| <b>33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)</b>  |                           |                         |
| 33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....          | 471.87                    |                         |
| 33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 743.18                    |                         |
| 33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 1,100.45                  |                         |
| 33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 1,457.71                  |                         |
| 33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 1,786.33                  |                         |
| 33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 2,143.58                  |                         |
| 33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 2,501.13                  |                         |
| 33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 2,858.68                  |                         |
| 33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 3,215.59                  |                         |
| 33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 3,572.50                  |                         |
| 33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 3,929.41                  |                         |
| 33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....         | 4,286.32                  |                         |
| <b>33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)</b>    |                           |                         |
| 33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab .....                 | 1,304.59                  | 186.22                  |
| <b>33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>      |                           |                         |
| <b>33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)</b>      |                           |                         |
| 33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 3,912.86                  | 463.51                  |
| 33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 4,364.73                  | 540.25                  |
| 33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 4,816.60                  | 615.97                  |
| 33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 5,267.44                  | 692.71                  |
| 33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 5,719.31                  | 768.43                  |
| 33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 6,170.16                  | 844.14                  |
| 33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....              | 6,623.05                  | 920.88                  |
| <b>33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)</b> |                           |                         |
| 33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....         | 629.90                    |                         |
| 33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 975.36                    |                         |
| 33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 1,420.06                  |                         |
| 33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 1,864.77                  |                         |
| 33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 2,279.80                  |                         |
| 33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 2,724.50                  |                         |
| 33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 3,176.37                  |                         |
| 33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 3,628.24                  |                         |
| 33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 4,079.08                  |                         |
| 33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 4,530.95                  |                         |
| 33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 4,981.80                  |                         |
| 33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....        | 5,433.66                  |                         |
| <b>33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)</b>   |                           |                         |
| 33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab .....                | 1,786.84                  | 204.64                  |
| <b>33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)</b>                     |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>33 42 31 00-0382</b> Inlet Frames And Grates <small>(33 42 31 00-0381)</small>   |                           |                         |
| 33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate .....<br>Note: For type A, B, D, or E inlets.   | 403.86                    | 47.63                   |
| 33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT) .....<br>Note: For type A, B, D, or E inlets.   | 526.54                    | 47.63                   |
| 33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT) .....<br>Note: Includes legend: Dump No Waste "Drains To Waterways".   | 526.54                    | 47.63                   |
| 33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT .....<br>Note: Legend: Dump No Waste "Drains to Waterways"   | 526.54                    | 47.63                   |
| 33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....   | 577.88                    | 47.63                   |
| 33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK).....   | 416.44                    | 95.26                   |
| 33 42 31 00-0389 EA Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....  | 488.32                    | 95.26                   |
| 33 42 31 00-0390 EA Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) .....<br>Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways". | 607.82                    | 119.08                  |
| 33 42 31 00-0391 EA 1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....  | 515.40                    | 119.08                  |
| 33 42 31 00-0392 EA 2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....  | 525.67                    | 119.08                  |
| 33 42 31 00-0393 EA 2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....  | 546.21                    | 119.08                  |
| 33 42 31 00-0394 EA 3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....  | 566.74                    | 119.08                  |
| 33 42 31 00-0395 EA 2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....   | 546.21                    | 119.08                  |
| 33 42 31 00-0396 EA 2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....   | 566.74                    | 119.08                  |
| 33 42 31 00-0397 EA 3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....   | 587.28                    | 119.08                  |
| 33 42 31 00-0398 EA 2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....   | 854.26                    | 119.08                  |
| 33 42 31 00-0399 EA 2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....   | 895.33                    | 119.08                  |
| 33 42 31 00-0400 EA 3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....   | 936.41                    | 119.08                  |
| 33 42 31 00-0401 EA 2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....  | 628.35                    | 119.08                  |
| 33 42 31 00-0402 EA 6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....  | 566.74                    | 119.08                  |
| 33 42 31 00-0403 EA 8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....  | 566.74                    | 119.08                  |
| 33 42 31 00-0404 EA 6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....  | 1,184.63                  | 119.08                  |
| 33 42 31 00-0405 EA 8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....  | 1,184.63                  | 119.08                  |
| 33 42 31 00-0406 EA Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....  | 467.34                    | 130.98                  |
| 33 42 31 00-0407 EA 6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648) .....<br>Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.  | 662.44                    | 130.98                  |
| 33 42 31 00-0408 EA 8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848) .....<br>Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.  | 662.44                    | 130.98                  |
| 33 42 31 00-0409 EA 10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048) .....<br>Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.  | 734.32                    | 130.98                  |
| 33 42 31 00-0410 EA Type B Inlet Frame (US Foundry 5216 FRM).....   | 847.27                    | 130.98                  |
| 33 42 31 00-0411 EA Type D Inlet Frame (US Foundry 2999 FRM).....   | 724.05                    | 130.98                  |
| 33 42 31 00-0412 EA Type B Inlet Frame (Campbell Foundry 2618-0202).....  | 1,042.38                  | 130.98                  |
| 33 42 31 00-0413 EA Type D Inlet Frame (Campbell Foundry 2617-0002).....  | 919.15                    | 130.98                  |
| 33 42 31 00-0414 EA Type A Inlet, Single Frame And Grate (US Foundry 52340).....  | 1,181.99                  | 190.53                  |
| 33 42 31 00-0415 EA Type E Inlet, Single Frame And Grate (US Foundry 52342).....  | 1,921.33                  | 190.53                  |
| 33 42 31 00-0416 EA Type A Inlet, Single Frame And Grate (General Foundries 52340).....   | 1,151.19                  | 190.53                  |
| 33 42 31 00-0417 EA Type E Inlet, Double Frame And Grate (General Foundries 52342).....   | 1,824.80                  | 190.53                  |
| 33 42 31 00-0418 EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....   | 1,937.28                  | 285.78                  |
| 33 42 31 00-0419 EA Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....   | 1,972.70                  | 381.05                  |
| 33 42 31 00-0420 EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....   | 2,168.87                  | 381.05                  |
| 33 42 31 00-0421 EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....   | 2,168.87                  | 381.05                  |
| 33 42 31 00-0422 EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....   | 1,912.16                  | 381.05                  |
| 33 42 31 00-0423 EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....   | 1,912.16                  | 381.05                  |
| 33 42 31 00-0424 EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GF1 52198).....  | 2,251.02                  | 381.05                  |
| <b>33 42 31 00-0425</b> Catch Basin Frames And Covers <small>(33 42 31 00-0001)</small>   |                           |                         |
| <b>33 42 31 00-0426</b> Cast Iron Frames And Covers <small>(33 42 31 00-0425)</small>   |                           |                         |
| 33 42 31 00-0427 EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....   | 782.70                    | 104.34                  |
| 33 42 31 00-0428 EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....   | 989.50                    | 117.90                  |
| 33 42 31 00-0429 EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....   | 1,119.86                  | 122.07                  |
| 33 42 31 00-0430 EA 26" Diameter Cast Iron Catch Basin Frame And Cover.....   | 1,261.91                  | 141.90                  |
| 33 42 31 00-0431 EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....   | 1,479.20                  | 161.72                  |
| 33 42 31 00-0432 EA 32" Diameter Cast Iron Catch Basin Frame And Cover.....   | 2,357.87                  | 169.02                  |
| 33 42 31 00-0433 EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....  | 1,278.66                  | 128.33                  |
| 33 42 31 00-0434 EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....  | 1,666.62                  | 148.16                  |
| 33 42 31 00-0435 EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....  | 1,884.28                  | 154.41                  |
| 33 42 31 00-0436 EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....  | 1,780.62                  | 154.41                  |
| 33 42 31 00-0437 EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....  | 1,840.42                  | 160.68                  |
| 33 42 31 00-0438 EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....  | 1,976.23                  | 166.94                  |
| 33 42 31 00-0439 EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....  | 2,375.22                  | 179.46                  |
| <b>33 42 31 00-0440</b> Area Yard Drain <small>(33 42 31 00-0001)</small><br>See CSI section 22 14 26 16-0001 for drains.   |                           |                         |
| <b>33 42 31 00-0441</b> Ductile Iron Grates <small>(33 42 31 00-0440)</small><br>Note: Not for traffic loading.   |                           |                         |
| 33 42 31 00-0442 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....   | 173.84                    | 41.22                   |
| 33 42 31 00-0443 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....  | 212.98                    | 43.97                   |
| 33 42 31 00-0444 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....   | 494.56                    | 54.96                   |
| 33 42 31 00-0445 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....   | 590.95                    | 65.96                   |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 33 42 31 00-0446 |     |     | <b>Concrete Drainage Inlet Structures (CALTRANS)</b> (33 42 31 00-0001)        |                        |                      |
| 33 42 31 00-0447 |     |     | <b>Type OS Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)            |                        |                      |
| 33 42 31 00-0448 | EA  |     | 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,331.74               |                      |
| 33 42 31 00-0449 | EA  |     | 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,875.46               |                      |
| 33 42 31 00-0450 | EA  |     | 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,382.12               |                      |
| 33 42 31 00-0451 | EA  |     | 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,851.69               |                      |
| 33 42 31 00-0452 | EA  |     | 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,284.20               |                      |
| 33 42 31 00-0453 | EA  |     | 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,679.64               |                      |
| 33 42 31 00-0454 | EA  |     | 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....     | 7,728.36               |                      |
| 33 42 31 00-0455 | EA  |     | 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 9,015.80               |                      |
| 33 42 31 00-0456 | EA  |     | 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 10,206.93              |                      |
| 33 42 31 00-0457 | EA  |     | 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 11,303.86              |                      |
| 33 42 31 00-0458 | EA  |     | 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 12,368.06              |                      |
| 33 42 31 00-0459 | EA  |     | 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 13,351.27              |                      |
| 33 42 31 00-0460 | EA  |     | 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 14,253.47              |                      |
| 33 42 31 00-0461 |     |     | <b>Type OL-7 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)          |                        |                      |
| 33 42 31 00-0462 | EA  |     | 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 4,536.83               |                      |
| 33 42 31 00-0463 | EA  |     | 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 5,046.65               |                      |
| 33 42 31 00-0464 | EA  |     | 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 5,519.40               |                      |
| 33 42 31 00-0465 | EA  |     | 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 5,955.06               |                      |
| 33 42 31 00-0466 | EA  |     | 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 6,352.61               |                      |
| 33 42 31 00-0467 | EA  |     | 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 6,714.15               |                      |
| 33 42 31 00-0468 | EA  |     | 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....   | 8,702.02               |                      |
| 33 42 31 00-0469 | EA  |     | 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 9,960.05               |                      |
| 33 42 31 00-0470 | EA  |     | 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 11,121.78              |                      |
| 33 42 31 00-0471 | EA  |     | 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 12,188.27              |                      |
| 33 42 31 00-0472 | EA  |     | 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 13,227.50              |                      |
| 33 42 31 00-0473 | EA  |     | 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 14,185.72              |                      |
| 33 42 31 00-0474 | EA  |     | 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 15,062.95              |                      |
| 33 42 31 00-0475 |     |     | <b>Type OL-10 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)         |                        |                      |
| 33 42 31 00-0476 | EA  |     | 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 5,647.41               |                      |
| 33 42 31 00-0477 | EA  |     | 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 6,126.20               |                      |
| 33 42 31 00-0478 | EA  |     | 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 6,566.88               |                      |
| 33 42 31 00-0479 | EA  |     | 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 6,971.52               |                      |
| 33 42 31 00-0480 | EA  |     | 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 7,338.04               |                      |
| 33 42 31 00-0481 | EA  |     | 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 7,667.52               |                      |
| 33 42 31 00-0482 | EA  |     | 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 9,675.67               |                      |
| 33 42 31 00-0483 | EA  |     | 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 10,903.26              |                      |
| 33 42 31 00-0484 | EA  |     | 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 12,036.64              |                      |
| 33 42 31 00-0485 | EA  |     | 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 13,073.73              |                      |
| 33 42 31 00-0486 | EA  |     | 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 14,086.93              |                      |
| 33 42 31 00-0487 | EA  |     | 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 15,020.17              |                      |
| 33 42 31 00-0488 | EA  |     | 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 15,871.37              |                      |
| 33 42 31 00-0489 |     |     | <b>Type OL-14 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)         |                        |                      |
| 33 42 31 00-0490 | EA  |     | 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 7,230.59               |                      |
| 33 42 31 00-0491 | EA  |     | 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 7,663.91               |                      |
| 33 42 31 00-0492 | EA  |     | 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 8,060.19               |                      |
| 33 42 31 00-0493 | EA  |     | 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 8,419.39               |                      |
| 33 42 31 00-0494 | EA  |     | 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 8,741.51               |                      |
| 33 42 31 00-0495 | EA  |     | 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 9,026.57               |                      |
| 33 42 31 00-0496 | EA  |     | 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 11,055.02              |                      |
| 33 42 31 00-0497 | EA  |     | 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 12,240.87              |                      |
| 33 42 31 00-0498 | EA  |     | 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 13,331.47              |                      |
| 33 42 31 00-0499 | EA  |     | 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 14,326.82              |                      |
| 33 42 31 00-0500 | EA  |     | 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 15,305.60              |                      |
| 33 42 31 00-0501 | EA  |     | 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 16,202.31              |                      |
| 33 42 31 00-0502 | EA  |     | 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 17,018.04              |                      |
| 33 42 31 00-0503 |     |     | <b>Type OL-21 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)         |                        |                      |
| 33 42 31 00-0504 | EA  |     | 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 10,444.17              |                      |
| 33 42 31 00-0505 | EA  |     | 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 10,786.74              |                      |
| 33 42 31 00-0506 | EA  |     | 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 11,092.23              |                      |
| 33 42 31 00-0507 | EA  |     | 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 11,360.66              |                      |
| 33 42 31 00-0508 | EA  |     | 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 11,590.97              |                      |
| 33 42 31 00-0509 | EA  |     | 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 11,785.25              |                      |
| 33 42 31 00-0510 | EA  |     | 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 13,752.84              |                      |
| 33 42 31 00-0511 | EA  |     | 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 14,856.61              |                      |
| 33 42 31 00-0512 | EA  |     | 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 15,865.12              |                      |
| 33 42 31 00-0513 | EA  |     | 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 16,778.38              |                      |
| 33 42 31 00-0514 | EA  |     | 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 17,687.30              |                      |



|                         | MINOR<br>CSI UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|------------------|--|---------------------------|-------------------------|
|                         | 33 42 31 00-0515 | EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 18,514.19                 |                         |
|                         | 33 42 31 00-0516 | EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 19,260.07                 |                         |
| <b>33 42 31 00-0517</b> |                  | <b>Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>             |                           |                         |
|                         | 33 42 31 00-0518 | EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 5,505.64                  |                         |
|                         | 33 42 31 00-0519 | EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 6,068.80                  |                         |
|                         | 33 42 31 00-0520 | EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 6,589.58                  |                         |
|                         | 33 42 31 00-0521 | EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 7,067.99                  |                         |
|                         | 33 42 31 00-0522 | EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 7,505.06                  |                         |
|                         | 33 42 31 00-0523 | EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....   | 7,900.78                  |                         |
|                         | 33 42 31 00-0524 | EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....   | 10,061.08                 |                         |
|                         | 33 42 31 00-0525 | EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 11,462.51                 |                         |
|                         | 33 42 31 00-0526 | EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 12,756.91                 |                         |
|                         | 33 42 31 00-0527 | EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 13,943.23                 |                         |
|                         | 33 42 31 00-0528 | EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 15,101.19                 |                         |
|                         | 33 42 31 00-0529 | EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 16,168.08                 |                         |
|                         | 33 42 31 00-0530 | EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 17,142.86                 |                         |
| <b>33 42 31 00-0531</b> |                  | <b>Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>            |                           |                         |
|                         | 33 42 31 00-0532 | EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 6,710.74                  |                         |
|                         | 33 42 31 00-0533 | EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 7,238.94                  |                         |
|                         | 33 42 31 00-0534 | EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 7,725.82                  |                         |
|                         | 33 42 31 00-0535 | EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 8,171.35                  |                         |
|                         | 33 42 31 00-0536 | EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 8,574.50                  |                         |
|                         | 33 42 31 00-0537 | EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 8,935.29                  |                         |
|                         | 33 42 31 00-0538 | EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 11,095.59                 |                         |
|                         | 33 42 31 00-0539 | EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 12,465.20                 |                         |
|                         | 33 42 31 00-0540 | EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 13,727.77                 |                         |
|                         | 33 42 31 00-0541 | EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 14,883.31                 |                         |
|                         | 33 42 31 00-0542 | EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 16,014.13                 |                         |
|                         | 33 42 31 00-0543 | EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 17,053.90                 |                         |
|                         | 33 42 31 00-0544 | EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 18,002.61                 |                         |
| <b>33 42 31 00-0545</b> |                  | <b>Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
|                         | 33 42 31 00-0546 | EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,244.78                  |                         |
|                         | 33 42 31 00-0547 | EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,686.78                  |                         |
|                         | 33 42 31 00-0548 | EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,098.08                  |                         |
|                         | 33 42 31 00-0549 | EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,480.79                  |                         |
|                         | 33 42 31 00-0550 | EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,834.89                  |                         |
|                         | 33 42 31 00-0551 | EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,158.31                  |                         |
| <b>33 42 31 00-0552</b> |                  | <b>Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
|                         | 33 42 31 00-0553 | EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,095.45                  |                         |
|                         | 33 42 31 00-0554 | EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,593.09                  |                         |
|                         | 33 42 31 00-0555 | EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,056.82                  |                         |
|                         | 33 42 31 00-0556 | EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,486.64                  |                         |
|                         | 33 42 31 00-0557 | EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,882.57                  |                         |
|                         | 33 42 31 00-0558 | EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,243.52                  |                         |
|                         | 33 42 31 00-0559 | EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....     | 7,099.55                  |                         |
|                         | 33 42 31 00-0560 | EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 8,287.53                  |                         |
|                         | 33 42 31 00-0561 | EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 9,387.86                  |                         |
|                         | 33 42 31 00-0562 | EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 10,400.55                 |                         |
|                         | 33 42 31 00-0563 | EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 11,383.05                 |                         |
|                         | 33 42 31 00-0564 | EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 12,291.08                 |                         |
|                         | 33 42 31 00-0565 | EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 13,123.55                 |                         |
| <b>33 42 31 00-0566</b> |                  | <b>Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
|                         | 33 42 31 00-0567 | EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,433.83                  |                         |
|                         | 33 42 31 00-0568 | EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,870.04                  |                         |
|                         | 33 42 31 00-0569 | EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,276.63                  |                         |
|                         | 33 42 31 00-0570 | EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,654.61                  |                         |
|                         | 33 42 31 00-0571 | EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,001.89                  |                         |
|                         | 33 42 31 00-0572 | EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,320.58                  |                         |
| <b>33 42 31 00-0573</b> |                  | <b>Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>            |                           |                         |
|                         | 33 42 31 00-0574 | EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 3,000.93                  |                         |
|                         | 33 42 31 00-0575 | EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 3,501.46                  |                         |
|                         | 33 42 31 00-0576 | EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 3,968.08                  |                         |
|                         | 33 42 31 00-0577 | EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 4,399.74                  |                         |
|                         | 33 42 31 00-0578 | EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 4,798.53                  |                         |
|                         | 33 42 31 00-0579 | EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 5,162.39                  |                         |
|                         | 33 42 31 00-0580 | EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 7,058.98                  |                         |
|                         | 33 42 31 00-0581 | EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 8,248.92                  |                         |
|                         | 33 42 31 00-0582 | EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 9,350.16                  |                         |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 31 00-0583 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 10,363.78                 |                         |
| 33 42 31 00-0584 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 11,347.03                 |                         |
| 33 42 31 00-0585 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 12,255.79                 |                         |
| 33 42 31 00-0586 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 13,090.05                 |                         |
| <b>33 42 31 00-0587 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>            |                           |                         |
| 33 42 31 00-0588 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 3,095.45                  |                         |
| 33 42 31 00-0589 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 3,593.09                  |                         |
| 33 42 31 00-0590 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 4,056.82                  |                         |
| 33 42 31 00-0591 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 4,486.64                  |                         |
| 33 42 31 00-0592 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 4,882.57                  |                         |
| 33 42 31 00-0593 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....  | 5,243.52                  |                         |
| 33 42 31 00-0594 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....  | 7,099.55                  |                         |
| 33 42 31 00-0595 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 8,287.53                  |                         |
| 33 42 31 00-0596 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 9,387.86                  |                         |
| 33 42 31 00-0597 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 10,400.55                 |                         |
| 33 42 31 00-0598 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 11,383.05                 |                         |
| 33 42 31 00-0599 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 12,291.08                 |                         |
| 33 42 31 00-0600 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness ..... | 13,123.55                 |                         |
| <b>33 42 31 00-0601 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
| 33 42 31 00-0602 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,410.20                  |                         |
| 33 42 31 00-0603 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,846.88                  |                         |
| 33 42 31 00-0604 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,254.96                  |                         |
| 33 42 31 00-0605 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,632.35                  |                         |
| 33 42 31 00-0606 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,981.15                  |                         |
| 33 42 31 00-0607 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,300.29                  |                         |
| <b>33 42 31 00-0608 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
| 33 42 31 00-0609 EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,457.46                  |                         |
| 33 42 31 00-0610 EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 2,893.21                  |                         |
| 33 42 31 00-0611 EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,299.33                  |                         |
| 33 42 31 00-0612 EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 3,675.81                  |                         |
| 33 42 31 00-0613 EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,022.63                  |                         |
| 33 42 31 00-0614 EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,340.86                  |                         |
| <b>33 42 31 00-0615 Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
| 33 42 31 00-0616 EA 3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,111.51                  |                         |
| 33 42 31 00-0617 EA 4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,793.87                  |                         |
| 33 42 31 00-0618 EA 5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,480.36                  |                         |
| 33 42 31 00-0619 EA 6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 6,019.72                  |                         |
| 33 42 31 00-0620 EA 7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 6,562.15                  |                         |
| 33 42 31 00-0621 EA 8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 7,058.98                  |                         |
| <b>33 42 31 00-0622 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
| 33 42 31 00-0623 EA 3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,985.79                  |                         |
| 33 42 31 00-0624 EA 4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,729.03                  |                         |
| 33 42 31 00-0625 EA 5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 6,420.12                  |                         |
| 33 42 31 00-0626 EA 6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 7,060.13                  |                         |
| 33 42 31 00-0627 EA 7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 7,648.00                  |                         |
| 33 42 31 00-0628 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 8,184.77                  |                         |
| 33 42 31 00-0629 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....     | 10,953.58                 |                         |
| 33 42 31 00-0630 EA 10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 12,705.16                 |                         |
| 33 42 31 00-0631 EA 12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 14,325.77                 |                         |
| 33 42 31 00-0632 EA 14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 15,816.45                 |                         |
| 33 42 31 00-0633 EA 16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 17,264.90                 |                         |
| 33 42 31 00-0634 EA 18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 18,601.89                 |                         |
| 33 42 31 00-0635 EA 20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....    | 19,827.43                 |                         |
| <b>33 42 31 00-0636 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
| 33 42 31 00-0637 EA 3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,087.89                  |                         |
| 33 42 31 00-0638 EA 4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 4,770.71                  |                         |
| 33 42 31 00-0639 EA 5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,407.93                  |                         |
| 33 42 31 00-0640 EA 6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,998.51                  |                         |
| 33 42 31 00-0641 EA 7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 6,541.40                  |                         |
| 33 42 31 00-0642 EA 8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 7,038.70                  |                         |
| <b>33 42 31 00-0643 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>               |                           |                         |
| 33 42 31 00-0644 EA 3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,151.19                  |                         |
| 33 42 31 00-0645 EA 4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 5,889.12                  |                         |
| 33 42 31 00-0646 EA 5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 6,575.95                  |                         |
| 33 42 31 00-0647 EA 6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 7,210.65                  |                         |
| 33 42 31 00-0648 EA 7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....     | 7,794.26                  |                         |



|                       |           |           |
|-----------------------|-----------|-----------|
| <b>Utilities</b>      | <b>33</b> | <b>CS</b> |
| Stormwater Utilities  | 33 40     |           |
| Stormwater Conveyance | 33 42     |           |

| MINOR | CSI                     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-------------------------|-----|--|------------------------|----------------------|
|       | 33 42 31 00-0649        | EA  | 8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 8,326.76               |                      |
|       | 33 42 31 00-0650        | EA  | 8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 10,973.87              |                      |
|       | 33 42 31 00-0651        | EA  | 10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 12,724.99              |                      |
|       | 33 42 31 00-0652        | EA  | 12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 14,345.14              |                      |
|       | 33 42 31 00-0653        | EA  | 14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 15,834.31              |                      |
|       | 33 42 31 00-0654        | EA  | 16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 17,282.39              |                      |
|       | 33 42 31 00-0655        | EA  | 18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 18,619.02              |                      |
|       | 33 42 31 00-0656        | EA  | 20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 19,844.19              |                      |
|       | <b>33 42 31 00-0657</b> |     | <b>Type GO Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>  |                        |                      |
|       | 33 42 31 00-0658        | EA  | 3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                     | 2,930.04               |                      |
|       | 33 42 31 00-0659        | EA  | 4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                     | 3,409.82               |                      |
|       | 33 42 31 00-0660        | EA  | 5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                     | 3,856.62               |                      |
|       | 33 42 31 00-0661        | EA  | 6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                     | 4,270.43               |                      |
|       | 33 42 31 00-0662        | EA  | 7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                     | 4,651.24               |                      |
|       | 33 42 31 00-0663        | EA  | 8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                     | 5,000.11               |                      |
|       | 33 42 31 00-0664        | EA  | 8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                     | 6,876.42               |                      |
|       | 33 42 31 00-0665        | EA  | 10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 8,028.77               |                      |
|       | 33 42 31 00-0666        | EA  | 12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 9,094.44               |                      |
|       | 33 42 31 00-0667        | EA  | 14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 10,075.56              |                      |
|       | 33 42 31 00-0668        | EA  | 16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 11,028.79              |                      |
|       | 33 42 31 00-0669        | EA  | 18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 11,908.10              |                      |
|       | 33 42 31 00-0670        | EA  | 20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 12,715.56              |                      |
|       | <b>33 42 31 00-0671</b> |     | <b>Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>   |                        |                      |
|       | 33 42 31 00-0672        | EA  | 3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 3,827.96               |                      |
|       | 33 42 31 00-0673        | EA  | 4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 4,458.74               |                      |
|       | 33 42 31 00-0674        | EA  | 5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 5,046.31               |                      |
|       | 33 42 31 00-0675        | EA  | 6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 5,591.72               |                      |
|       | 33 42 31 00-0676        | EA  | 7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 6,092.88               |                      |
|       | 33 42 31 00-0677        | EA  | 8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....                                    | 6,551.87               |                      |
|       | 33 42 31 00-0678        | EA  | 8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                    | 8,844.01               |                      |
|       | 33 42 31 00-0679        | EA  | 10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 10,329.40              |                      |
|       | 33 42 31 00-0680        | EA  | 12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 11,704.51              |                      |
|       | 33 42 31 00-0681        | EA  | 14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 12,970.37              |                      |
|       | 33 42 31 00-0682        | EA  | 16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 14,198.93              |                      |
|       | 33 42 31 00-0683        | EA  | 18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 15,333.63              |                      |
|       | 33 42 31 00-0684        | EA  | 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....                                   | 16,374.43              |                      |
|       | <b>33 42 33</b>         |     | <b>Stormwater Curbside Drains and Inlets (33 42)</b>   |                        |                      |
|       | 33 42 33 00-0001        |     | <b>Curb Inlet Frames And Covers (33 42 33)</b>   |                        |                      |
|       | 33 42 33 00-0002        |     | <b>Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)</b>   |                        |                      |
|       | 33 42 33 00-0003        | EA  | 20" x 22" Cast Iron Curb Inlet Frame And Cover .....   | 1,595.68               | 122.07               |
|       | 33 42 33 00-0004        | EA  | 22" x 24" Cast Iron Curb Inlet Frame And Cover .....   | 1,706.27               | 141.90               |
|       | 33 42 33 00-0005        | EA  | 24" x 24" Cast Iron Curb Inlet Frame And Cover .....   | 1,774.19               | 141.90               |
|       | 33 42 33 00-0006        | EA  | 27" x 27" Cast Iron Curb Inlet Frame And Cover .....   | 1,942.88               | 166.94               |
|       | 33 42 33 00-0007        | EA  | 36" x 24" Cast Iron Curb Inlet Frame And Cover .....   | 1,922.20               | 178.41               |
|       | <b>33 42 36</b>         |     | <b>Stormwater Trench Drains (33 42)</b>  |                        |                      |
|       | 33 42 36 00-0001        |     | <b>Modular Trench Drains (33 42 36)</b>  |                        |                      |
|       | 33 42 36 00-0002        |     | <b>Modular Trench Drains (33 42 36 00-0001)</b>  |                        |                      |
|       |                         |     | Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.  |                        |                      |
|       | 33 42 36 00-0003        |     | <b>4" Wide, Modular Trench Drains (33 42 36 00-0002)</b>   |                        |                      |
|       | 33 42 36 00-0004        |     | <b>4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)</b>                     |                        |                      |
|       | 33 42 36 00-0005        |     | <b>4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)</b>                     |                        |                      |
|       | 33 42 36 00-0006        | LF  | 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....                            | 66.36                  | 16.70                |
|       |                         |     | For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add                                  | 99.22                  |                      |
|       |                         |     | For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add                       | 198.45                 |                      |
|       |                         |     | For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add                  | 317.52                 |                      |
|       |                         |     | For Type 304 Stainless Steel Top Veneer Frame, Add   | 79.38                  |                      |
|       |                         |     | For Aluminum Veneer Bronze Anodized Frame, Add   | 39.69                  |                      |
|       | 33 42 36 00-0007        |     | <b>Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)</b> |                        |                      |
|       | 33 42 36 00-0008        | EA  | Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain .....                      | 50.73                  |                      |
|       | 33 42 36 00-0009        | EA  | No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain .....                   | 61.18                  |                      |
|       | 33 42 36 00-0010        | EA  | No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain .....                | 61.18                  |                      |
|       | 33 42 36 00-0011        |     | <b>6" Wide, Modular Trench Drains (33 42 36 00-0002)</b>   |                        |                      |

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)  |                           |                         |
| 33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)  |                           |                         |
| 33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain.....  | 203.11                    | 16.70                   |
| For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add  | 99.22                     |                         |
| For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add   | 198.45                    |                         |
| For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add  | 317.52                    |                         |
| For Type 304 Stainless Steel Top Veneer Frame, Add   | 79.38                     |                         |
| For Aluminum Veneer Bronze Anodized Frame, Add   | 39.69                     |                         |
| 33 42 36 00-0015 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)                      |                           |                         |
| 33 42 36 00-0016 EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....                                  | 92.30                     |                         |
| 33 42 36 00-0017 EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....                               | 102.75                    |                         |
| 33 42 36 00-0018 EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....                            | 102.75                    |                         |
| 33 42 36 00-0019 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)                       |                           |                         |
| 33 42 36 00-0020 EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....                            | 178.38                    |                         |
| 33 42 36 00-0021 EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....                                 | 178.38                    |                         |
| 33 42 36 00-0022 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains..... | 845.97                    |                         |
| 33 42 36 00-0023 EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....   | 1,639.77                  |                         |
| 33 42 36 00-0024 EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....                                  | 198.45                    |                         |
| 33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)   |                           |                         |
| 33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)   |                           |                         |
| 33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....   | 296.38                    | 16.70                   |
| For Black Acid Resistant Coated Frame, Add   | 75.41                     |                         |
| For Galvanized Top Frame Assembly, Add   | 75.41                     |                         |
| For Type 304 Stainless Steel Top Frame Assembly, Add   | 277.83                    |                         |
| 33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)                     |                           |                         |
| 33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....                                 | 100.24                    |                         |
| 33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....                              | 110.69                    |                         |
| 33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....                           | 110.69                    |                         |
| 33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)                      |                           |                         |
| 33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....                           | 178.38                    |                         |
| 33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....                                | 178.38                    |                         |
| 33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....       | 845.97                    |                         |
| 33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....  | 1,639.77                  |                         |
| 33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....                                 | 198.45                    |                         |
| 33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)  |                           |                         |
| 33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)  |                           |                         |
| 33 42 36 00-0040 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain.....  | 383.70                    | 16.70                   |
| For Black Acid Resistant Coated Frame, Add   | 75.41                     |                         |
| For Galvanized Top Frame Assembly, Add   | 75.41                     |                         |
| For Type 304 Stainless Steel Top Frame Assembly, Add   | 277.83                    |                         |
| 33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)                          |                           |                         |
| 33 42 36 00-0042 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....                                      | 163.74                    |                         |
| 33 42 36 00-0043 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....                                   | 174.19                    |                         |
| 33 42 36 00-0044 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....                                | 174.19                    |                         |
| 33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)                           |                           |                         |
| 33 42 36 00-0046 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....                                | 178.38                    |                         |
| 33 42 36 00-0047 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....                                     | 178.38                    |                         |
| 33 42 36 00-0048 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....            | 845.97                    |                         |
| 33 42 36 00-0049 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....   | 1,639.77                  |                         |
| 33 42 36 00-0050 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....                                      | 198.45                    |                         |
| 33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0011)   |                           |                         |
| 33 42 36 00-0052 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)   |                           |                         |



|  |                              |              |
|--|------------------------------|--------------|
|  | <b>Utilities</b>             | <b>33</b>    |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |

CS

| MINOR<br>CSI            | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|--|---------------------------|-------------------------|
| 33 42 36 00-0053        | LF  | 6" Wide, Polymer Concrete, Modular Trench Drain  | 473.66                    |                         |
| <b>33 42 36 00-0054</b> |     | <b>Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains</b> <sup>(33 42 36 00-0054)</sup>            |                           |                         |
| 33 42 36 00-0055        | EA  | Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain   | 187.30                    |                         |
| 33 42 36 00-0056        | EA  | No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain  | 227.78                    |                         |
| 33 42 36 00-0057        | EA  | No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain   | 70.60                     |                         |
| <b>33 42 36 00-0058</b> |     | <b>12" Wide, Modular Trench Drains</b> <sup>(33 42 36 00-0058)</sup>   |                           |                         |
| <b>33 42 36 00-0059</b> |     | <b>12" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0059)</sup>                      |                           |                         |
| <b>33 42 36 00-0060</b> |     | <b>12" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0060)</sup>                      |                           |                         |
| 33 42 36 00-0061        | LF  | 12" Wide, High Density Polyethylene, Modular Trench Drain  | 383.27                    | 22.96                   |
|                         |     | <i>For Acid Resistant Coated Top Frame, Add</i>  | 103.19                    |                         |
|                         |     | <i>For Galvanized Welded Frame Assembly, Add</i>   | 108.16                    |                         |
|                         |     | <i>For Type 304 Stainless Steel Top Frame, Add</i>   | 619.16                    |                         |
| <b>33 42 36 00-0062</b> |     | <b>Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0062)</sup>  |                           |                         |
| 33 42 36 00-0063        | EA  | End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains   | 190.55                    |                         |
| 33 42 36 00-0064        | EA  | No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains                                     | 204.47                    |                         |
| 33 42 36 00-0065        | EA  | No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains                                  | 204.47                    |                         |
| <b>33 42 36 00-0066</b> |     | <b>Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains</b> <sup>(33 42 36 00-0066)</sup>   |                           |                         |
| 33 42 36 00-0067        | EA  | Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains                                  | 319.08                    |                         |
| 33 42 36 00-0068        | EA  | Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains                                       | 418.30                    |                         |
| 33 42 36 00-0069        | EA  | 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains              | 1,667.85                  |                         |
| 33 42 36 00-0070        | EA  | Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains   | 3,255.45                  |                         |
| 33 42 36 00-0071        | EA  | Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains                                       | 396.90                    |                         |
| <b>33 42 36 00-0072</b> |     | <b>12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <sup>(33 42 36 00-0072)</sup>                     |                           |                         |
| <b>33 42 36 00-0073</b> |     | <b>12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <sup>(33 42 36 00-0073)</sup>                     |                           |                         |
| 33 42 36 00-0074        | LF  | 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain   | 482.50                    | 22.96                   |
|                         |     | <i>For Acid Resistant Coated Top Frame, Add</i>  | 103.19                    |                         |
|                         |     | <i>For Galvanized Welded Frame Assembly, Add</i>   | 108.16                    |                         |
|                         |     | <i>For Type 304 Stainless Steel Top Frame, Add</i>   | 619.16                    |                         |
| <b>33 42 36 00-0075</b> |     | <b>Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <sup>(33 42 36 00-0075)</sup> |                           |                         |
| 33 42 36 00-0076        | EA  | End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains  | 198.49                    |                         |
| 33 42 36 00-0077        | EA  | No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains                                    | 212.41                    |                         |
| 33 42 36 00-0078        | EA  | No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains                                 | 212.41                    |                         |
| <b>33 42 36 00-0079</b> |     | <b>Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <sup>(33 42 36 00-0079)</sup>  |                           |                         |
| 33 42 36 00-0080        | EA  | Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains                                 | 319.08                    |                         |
| 33 42 36 00-0081        | EA  | Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains                                      | 418.30                    |                         |
| 33 42 36 00-0082        | EA  | 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains             | 1,667.85                  |                         |
| 33 42 36 00-0083        | EA  | Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains  | 3,255.45                  |                         |
| 33 42 36 00-0084        | EA  | Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains                                      | 396.90                    |                         |
| <b>33 42 36 00-0085</b> |     | <b>12" Wide, Vinylester Fiberglass, Modular Trench Drains</b> <sup>(33 42 36 00-0085)</sup>                          |                           |                         |
| <b>33 42 36 00-0086</b> |     | <b>12" Wide, Vinylester Fiberglass, Modular Trench Drains</b> <sup>(33 42 36 00-0086)</sup>                          |                           |                         |
| 33 42 36 00-0087        | LF  | 12" Wide, Vinylester Fiberglass, Modular Trench Drain  | 680.95                    | 22.96                   |
|                         |     | <i>For Acid Resistant Coated Top Frame, Add</i>  | 103.19                    |                         |
|                         |     | <i>For Galvanized Welded Frame Assembly, Add</i>   | 108.16                    |                         |
|                         |     | <i>For Type 304 Stainless Steel Top Frame, Add</i>   | 619.16                    |                         |
| <b>33 42 36 00-0088</b> |     | <b>Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains</b> <sup>(33 42 36 00-0088)</sup>      |                           |                         |
| 33 42 36 00-0089        | EA  | End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains   | 496.16                    |                         |
| 33 42 36 00-0090        | EA  | No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains   | 510.08                    |                         |
| 33 42 36 00-0091        | EA  | No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains                                      | 510.08                    |                         |
| <b>33 42 36 00-0092</b> |     | <b>Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains</b> <sup>(33 42 36 00-0092)</sup>       |                           |                         |
| 33 42 36 00-0093        | EA  | Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains                                      | 319.08                    |                         |



**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....                              | 418.30                    |                         |
| 33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....     | 1,667.85                  |                         |
| 33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....  | 3,255.45                  |                         |
| 33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....                               | 396.90                    |                         |
| <b>33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0058)</b>                                      |                           |                         |
| <b>33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)</b>                                      |                           |                         |
| 33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain .....  | 635.33                    |                         |
| <b>33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)</b>                  |                           |                         |
| 33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain .....                                     | 319.13                    |                         |
| 33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain .....                                  | 550.30                    |                         |
| 33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....                                | 124.85                    |                         |
| <b>33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0002)</b>  |                           |                         |
| <b>33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0105)</b>                             |                           |                         |
| <b>33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>                             |                           |                         |
| 33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain .....   | 537.48                    | 31.31                   |
| <i>For Acid Resistant Coated Frame, Add</i>   | 154.79                    |                         |
| <i>For Galvanized Frame Assembly, Add</i>   | 154.79                    |                         |
| <i>For Type 304 Stainless Steel Top Frame, Add</i>  | 952.56                    |                         |
| <b>33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>         |                           |                         |
| 33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains .....                                  | 608.64                    |                         |
| 33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....                         | 886.54                    |                         |
| 33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....                      | 886.54                    |                         |
| <b>33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>          |                           |                         |
| 33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....                      | 725.88                    |                         |
| 33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains ..... | 3,305.61                  |                         |
| 33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....                                     | 6,480.81                  |                         |
| 33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains .....                          | 793.80                    |                         |
| <b>33 42 36 00-0118 Modular Trench Drain Grates (33 42 36 00-0001)</b>  |                           |                         |
| <b>33 42 36 00-0119 4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)</b>   |                           |                         |
| 33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP).....                 | 43.31                     | 3.13                    |
| 33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....                                 | 45.55                     | 3.13                    |
| 33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG) .....                         | 36.59                     | 3.13                    |
| 33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....                           | 98.20                     | 3.13                    |
| 33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....                       | 36.59                     | 3.13                    |
| 33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS) .....                       | 98.20                     | 3.13                    |
| <b>33 42 36 00-0126 6" Wide, Modular Trench Drain Grates (33 42 36 00-0118)</b>   |                           |                         |
| 33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate .....                                   | 195.73                    | 3.13                    |
| 33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate .....  | 165.77                    | 3.13                    |
| 33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate .....   | 174.10                    | 3.13                    |
| 33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....  | 152.07                    | 3.13                    |
| 33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....                                     | 163.98                    | 3.13                    |
| 33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate .....  | 165.96                    | 3.13                    |
| 33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate .....                                  | 165.96                    | 3.13                    |
| 33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate .....                                       | 163.98                    | 3.13                    |
| 33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....  | 144.14                    | 3.13                    |
| 33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate .....  | 144.14                    | 3.13                    |
| 33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate .....                                | 153.26                    | 3.13                    |
| 33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....                              | 153.26                    | 3.13                    |
| 33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate .....                                 | 199.70                    | 3.13                    |
| 33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....  | 199.70                    | 3.13                    |
| 33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate .....                                 | 366.40                    | 3.13                    |
| 33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate .....                              | 366.40                    | 3.13                    |
| 33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....   | 1,021.28                  | 3.13                    |
| 33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate.....   | 136.20                    | 3.13                    |
| 33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate .....   | 294.96                    | 3.13                    |
| <b>33 42 36 00-0146 12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)</b>  |                           |                         |
| 33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....                           | 541.55                    | 3.39                    |
| 33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate .....  | 517.73                    | 3.39                    |



|  |                              |              |
|--|------------------------------|--------------|
|  | <b>Utilities</b>             | <b>33</b>    |
|  | <b>Stormwater Utilities</b>  | <b>33 40</b> |
|  | <b>Stormwater Conveyance</b> | <b>33 42</b> |

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 33 42 36 00-0149        | LF  |     | 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....   | 450.26                 | 3.39                 |
| 33 42 36 00-0150        | LF  |     | 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....   | 473.08                 | 3.39                 |
| 33 42 36 00-0151        | LF  |     | 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate.....   | 408.58                 | 3.39                 |
| 33 42 36 00-0152        | LF  |     | 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....   | 800.52                 | 3.39                 |
| 33 42 36 00-0153        | LF  |     | 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....  | 800.52                 | 3.39                 |
| 33 42 36 00-0154        | LF  |     | 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....  | 1,021.79               | 3.39                 |
| 33 42 36 00-0155        | LF  |     | 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....  | 1,021.79               | 3.39                 |
| 33 42 36 00-0156        | LF  |     | 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....  | 1,304.59               | 3.39                 |
| 33 42 36 00-0157        | LF  |     | 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate.....   | 1,304.59               | 3.39                 |
| 33 42 36 00-0158        | LF  |     | 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate.....  | 1,238.10               | 3.39                 |
| 33 42 36 00-0159        | LF  |     | 12" Wide, Fiberglass, Modular Trench Drain Grate.....  | 584.21                 | 3.39                 |
| <b>33 42 36 00-0160</b> |     |     | <b>23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)</b>  |                        |                      |
| 33 42 36 00-0161        | LF  |     | 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....  | 855.63                 | 3.65                 |
| 33 42 36 00-0162        | LF  |     | 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....  | 720.68                 | 3.65                 |
| 33 42 36 00-0163        | LF  |     | 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....   | 1,117.58               | 3.65                 |
| 33 42 36 00-0164        | LF  |     | 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....  | 827.84                 | 3.65                 |
| <b>33 44</b>            |     |     | <b>Storm Utility Water Drains (33 40)</b>  |                        |                      |
| <b>33 44 36</b>         |     |     | <b>Oil and Stormwater Separators (33 44)</b>   |                        |                      |
| 33 44 36 00-0001        |     |     | <b>Oil/Water Separator (33 44 36)</b>  |                        |                      |
|                         |     |     | Note: Complete with internal sensors and detectors.  |                        |                      |
| 33 44 36 00-0002        |     |     | <b>Coalescing Oil Water Separator (33 44 36 00-0001)</b>   |                        |                      |
|                         |     |     | Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA. |                        |                      |
| 33 44 36 00-0003        |     |     | <b>Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)</b>   |                        |                      |
| 33 44 36 00-0004        | EA  |     | 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....  | 18,940.71              |                      |
|                         |     |     | Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.  |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 711.00                 |                      |
| 33 44 36 00-0005        | EA  |     | 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....   | 23,162.12              |                      |
|                         |     |     | Note: HTC-G 1000. 4' diameter x 14' long tank.   |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 893.70                 |                      |
| 33 44 36 00-0006        | EA  |     | 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....   | 27,726.89              |                      |
|                         |     |     | Note: HTC-G 2000. 5'-4" diameter x 15' long tank.  |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 1,340.10               |                      |
| 33 44 36 00-0007        |     |     | <b>Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)</b>   |                        |                      |
| 33 44 36 00-0008        | EA  |     | 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....  | 29,389.49              |                      |
|                         |     |     | Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.  |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 711.00                 |                      |
| 33 44 36 00-0009        | EA  |     | 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....   | 33,795.32              |                      |
|                         |     |     | Note: HTC-G 1000. 4' diameter x 14' long tank.   |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 893.70                 |                      |
| 33 44 36 00-0010        | EA  |     | 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....   | 41,257.60              |                      |
|                         |     |     | Note: HTC-G 2000. 5'-4" diameter x 15' long tank.  |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 1,340.10               |                      |
| 33 44 36 00-0011        | EA  |     | 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....   | 48,010.69              |                      |
|                         |     |     | Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.   |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 1,550.70               |                      |
| 33 44 36 00-0012        | EA  |     | 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....   | 63,734.67              |                      |
|                         |     |     | Note: HTC-G 5000. 6' diameter x 28'-8" long tank.  |                        |                      |
|                         |     |     | For Interior Polyurethane Coating, Add   | 2,057.80               |                      |
| 33 44 36 00-0013        |     |     | <b>Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)</b>  |                        |                      |
| 33 44 36 00-0014        | EA  |     | Single Channel Alarm Panel For Coalescing Oil Water Separator.....   | 1,237.04               |                      |
|                         |     |     | Note: HTAP1.   |                        |                      |
| 33 44 36 00-0015        | EA  |     | Two Channel Alarm Panel For Coalescing Oil Water Separator.....  | 1,675.37               |                      |
|                         |     |     | Note: HTAP2.   |                        |                      |
| 33 44 36 00-0016        | EA  |     | Float Interface Sensor For Coalescing Oil Water Separator.....   | 979.95                 |                      |
|                         |     |     | Note: Required for UL 2215 label.  |                        |                      |
| 33 44 36 00-0017        | EA  |     | 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator.....  | 732.11                 |                      |
|                         |     |     | Note: Required for UL 2215 label.  |                        |                      |
| 33 44 36 00-0018        | EA  |     | Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator.....   | 267.41                 |                      |
|                         |     |     | Note: Required for UL 2215 label.  |                        |                      |
| 33 44 36 00-0019        | EA  |     | 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator.....  | 4,023.93               |                      |
| 33 44 36 00-0020        | EA  |     | 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator.....  | 8,047.87               |                      |
| 33 44 36 00-0021        | EA  |     | 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator.....  | 12,071.89              |                      |
| 33 44 36 00-0022        | EA  |     | 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....   | 720.70                 |                      |
| 33 44 36 00-0023        | EA  |     | 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....  | 852.88                 |                      |
| 33 44 36 00-0024        | EA  |     | 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....  | 1,705.76               |                      |
| 33 44 36 00-0025        | EA  |     | 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....  | 3,797.86               |                      |

**33 Utilities****33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator.....                           | 1,030.50                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator.....                           | 1,344.67                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator.....                           | 1,865.38                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator.....                              | 3,410.24                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator.....                              | 4,389.20                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator.....                              | 5,512.74                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator.....                              | 6,954.33                  |                         |
| Note: Required when installed in paved areas.   |                           |                         |
| 33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator.....                    | 1,377.57                  |                         |
| 33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator.....                  | 1,679.11                  |                         |
| 33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator.....                  | 2,637.41                  |                         |
| 33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....     | 1,313.54                  |                         |
| 33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....   | 1,594.43                  |                         |
| 33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....   | 1,891.83                  |                         |
| 33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....                        | 111.53                    |                         |
| 33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....                        | 125.98                    |                         |
| <b>33 44 36 00-0041 Oil Skimmers (33 44 36)</b>   |                           |                         |
| <b>33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)</b>   |                           |                         |
| 33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....                                  | 5,541.16                  | 846.02                  |
| 33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....                       | 5,776.96                  | 846.02                  |
| 33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....                                  | 5,563.00                  | 846.02                  |
| 33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....                       | 5,865.38                  | 846.02                  |
| 33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....                              | 5,810.80                  | 846.02                  |
| 33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....                   | 6,010.57                  | 846.02                  |
| 33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....                              | 5,862.10                  | 846.02                  |
| 33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....                   | 6,163.40                  | 846.02                  |
| 33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....                                  | 6,358.79                  | 1,128.27                |
| 33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....                       | 6,610.96                  | 1,128.27                |
| 33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....                                  | 6,425.38                  | 1,128.27                |
| 33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....                       | 6,787.81                  | 1,128.27                |
| 33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....                              | 6,996.31                  | 1,128.27                |
| 33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....                   | 7,248.48                  | 1,128.27                |
| 33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....                              | 7,049.80                  | 1,128.27                |
| 33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....                   | 7,413.32                  | 1,128.27                |
| <b>33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)</b>  |                           |                         |
| 33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....   | 16.37                     |                         |
| 33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....   | 30.57                     |                         |
| 33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....  | 302.54                    |                         |
| 33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....  | 350.57                    |                         |
| <b>33 46 Stormwater Management (33 40)</b>  |                           |                         |
| <b>33 46 53 Stormwater Leaching Pits (33 46)</b>  |                           |                         |
| <b>33 46 53 00-0001 Drainage Wells (33 46 53)</b>   |                           |                         |
| Note: Includes augering hole.   |                           |                         |
| 33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner.....                                       | 29.99                     |                         |
| 33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner.....                                       | 36.59                     |                         |
| 33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner.....                                       | 48.89                     |                         |
| <b>33 50 Hydrocarbon Utilities (33)</b>   |                           |                         |
| <b>33 52 Hydrocarbon Transmission and Distribution (33 50)</b>  |                           |                         |
| <b>33 52 16 Gas Hydrocarbon Piping (33 52)</b>  |                           |                         |
| <b>33 52 16 13 Steel Natural Gas Piping (33 52 16)</b>  |                           |                         |
| See CSI section 23 05 23 00-0000 for gas valves.  |                           |                         |
| <b>33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)</b>  |                           |                         |
| Note: Excludes excavation and backfill.   |                           |                         |
| <b>33 52 16 13-0002 Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped (33 52 16 13-0001)</b>                 |                           |                         |
| 33 52 16 13-0003 LF 1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....            | 31.57                     | 3.54                    |
| 33 52 16 13-0004 LF 3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....            | 36.87                     | 3.90                    |
| 33 52 16 13-0005 LF 1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....              | 43.39                     | 4.00                    |
| 33 52 16 13-0006 LF 1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel..... | 44.50                     | 4.10                    |
| 33 52 16 13-0007 LF 1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel..... | 46.44                     | 4.15                    |
| 33 52 16 13-0008 LF 2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....              | 49.08                     | 4.45                    |
| 33 52 16 13-0009 LF 2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel..... | 69.51                     | 4.85                    |



|  |  |              |           |
|--|--|--------------|-----------|
|  | <b>Utilities</b>                                 | <b>33</b>    |           |
|  | <b>Hydrocarbon Utilities</b>                     | <b>33 50</b> | <b>CS</b> |
|  | <b>Hydrocarbon Transmission and Distribution</b> | <b>33 52</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 52 16 13-0010 LF 3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....   | 86.43                     | 6.12                    |
| 33 52 16 13-0011 LF 4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....   | 119.10                    | 7.39                    |
| 33 52 16 13-0012 LF 5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....   | 165.19                    | 8.57                    |
| 33 52 16 13-0013 LF 6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....   | 208.62                    | 10.46                   |
| 33 52 16 13-0014 LF 8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....   | 309.02                    | 13.46                   |
| <b>33 52 16 13-0015 Gas Line Taps (33 52 16 13-0001)</b><br>Note: Includes material to tap into main and gas valve.                              |                           |                         |
| <b>33 52 16 13-0016 Polyethylene, 60 PSI (33 52 16 13-0015)</b>  |                           |                         |
| 33 52 16 13-0017 EA 2" Polyethylene Hot Tap, With Valve .....  | 4,871.32                  |                         |
| 33 52 16 13-0018 EA 2-1/2" Polyethylene Hot Tap, With Valve .....  | 2,159.02                  |                         |
| 33 52 16 13-0019 EA 3" Polyethylene Hot Tap, With Valve .....  | 2,282.62                  |                         |
| 33 52 16 13-0020 EA 4" Polyethylene Hot Tap, With Valve .....  | 8,452.20                  |                         |
| 33 52 16 13-0021 EA 6" Polyethylene Hot Tap, With Valve .....  | 13,242.33                 |                         |
| <b>33 52 16 13-0022 Steel, Schedule 40 (33 52 16 13-0015)</b><br>Note: For punch steel service tee.  |                           |                         |
| 33 52 16 13-0023 EA 1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....     | 3,093.96                  |                         |
| 33 52 16 13-0024 EA 3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....     | 3,146.37                  |                         |
| 33 52 16 13-0025 EA 3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....     | 3,219.71                  |                         |
| 33 52 16 13-0026 EA 3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....       | 3,290.62                  |                         |
| 33 52 16 13-0027 EA 1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....         | 3,342.84                  |                         |
| 33 52 16 13-0028 EA 1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....     | 3,637.40                  |                         |
| 33 52 16 13-0029 EA 1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee ..... | 3,730.21                  |                         |
| <b>33 52 16 13-0030 Protective Pipe And Fitting Wrap (33 52 16 13-0001)</b><br>Note: Includes cleaning and priming pipe.                         |                           |                         |
| <b>33 52 16 13-0031 Corrosion Protection Pipe Wrap For Pipe (33 52 16 13-0030)</b><br>Note: Field applied.                                       |                           |                         |
| 33 52 16 13-0032 LF 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 3.88                      |                         |
| 33 52 16 13-0033 LF 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 4.12                      |                         |
| 33 52 16 13-0034 LF 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 4.41                      |                         |
| 33 52 16 13-0035 LF 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 4.91                      |                         |
| 33 52 16 13-0036 LF 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 5.33                      |                         |
| 33 52 16 13-0037 LF 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 6.08                      |                         |
| 33 52 16 13-0038 LF 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 7.23                      |                         |
| 33 52 16 13-0039 LF 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 8.77                      |                         |
| 33 52 16 13-0040 LF 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 10.87                     |                         |
| 33 52 16 13-0041 LF 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe .....   | 14.14                     |                         |
| <b>33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings (33 52 16 13-0030)</b><br>Note: Field applied.                                 |                           |                         |
| 33 52 16 13-0043 EA 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 25.38                     |                         |
| 33 52 16 13-0044 EA 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 25.38                     |                         |
| 33 52 16 13-0045 EA 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 31.51                     |                         |
| 33 52 16 13-0046 EA 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 35.12                     |                         |
| 33 52 16 13-0047 EA 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 35.12                     |                         |
| 33 52 16 13-0048 EA 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 41.55                     |                         |
| 33 52 16 13-0049 EA 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 55.67                     |                         |
| 33 52 16 13-0050 EA 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 73.41                     |                         |
| 33 52 16 13-0051 EA 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 73.91                     |                         |
| 33 52 16 13-0052 EA 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings .....  | 84.61                     |                         |
| <b>33 52 16 13-0053 Service Fittings (33 52 16 13-0001)</b>  |                           |                         |
| <b>33 52 16 13-0054 Brass Fittings (33 52 16 13-0053)</b>  |                           |                         |
| 33 52 16 13-0055 EA 1/2" X 2" Long Nipples, Threaded Both Ends, Brass .....  | 43.37                     |                         |
| 33 52 16 13-0056 EA 3/4" X 2" Long Nipples, Threaded Both Ends, Brass .....  | 50.20                     |                         |
| 33 52 16 13-0057 EA 1" X 2" Long Nipples, Threaded Both Ends, Brass .....  | 63.39                     |                         |
| 33 52 16 13-0058 EA 1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass .....  | 78.24                     |                         |
| 33 52 16 13-0059 EA 1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass .....  | 87.59                     |                         |
| 33 52 16 13-0060 EA 2" X 2" Long Nipples, Threaded Both Ends, Brass .....  | 113.10                    |                         |
| 33 52 16 13-0061 EA 1/2" 90 Degree Elbow, Brass .....  | 37.92                     |                         |
| 33 52 16 13-0062 EA 3/4" 90 Degree Elbow, Brass .....  | 43.44                     |                         |
| 33 52 16 13-0063 EA 1" 90 Degree Elbow, Brass .....  | 56.00                     |                         |
| 33 52 16 13-0064 EA 1-1/4" 90 Degree Elbow, Brass .....  | 71.81                     |                         |
| 33 52 16 13-0065 EA 1-1/2" 90 Degree Elbow, Brass .....  | 81.83                     |                         |
| 33 52 16 13-0066 EA 2" 90 Degree Elbow, Brass .....  | 108.35                    |                         |
| 33 52 16 13-0067 EA 1/2" Diameter Chrome Plated Nipple .....   | 33.30                     |                         |

**33 Utilities****33 50 Hydrocarbon Utilities****33 52 Hydrocarbon Transmission and Distribution**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 52 16 13-0068 EA 3/4" Diameter Chrome Plated Nipple .....   | 42.73                     |                         |
| 33 52 16 13-0069 EA 1" Diameter Chrome Plated Nipple .....   | 55.65                     |                         |
| 33 52 16 13-0070 EA 1-1/4" Diameter Chrome Plated Nipple .....   | 79.00                     |                         |
| 33 52 16 13-0071 EA 1-1/2" Diameter Chrome Plated Nipple .....   | 95.33                     |                         |
| 33 52 16 13-0072 EA 2" Diameter Chrome Plated Nipple .....   | 127.37                    |                         |
| <b>33 52 16 13-0073 Anodless Gas Riser</b> (33 52 16 13-0053)  |                           |                         |
| 33 52 16 13-0074 EA 3/4" Anodless Gas Riser .....  | 110.28                    |                         |
| 33 52 16 13-0075 EA 1" Anodless Gas Riser .....  | 136.07                    |                         |
| 33 52 16 13-0076 EA 1-1/4" Anodless Gas Riser .....  | 158.90                    |                         |
| 33 52 16 13-0077 EA 1-1/2" Anodless Gas Riser .....  | 197.33                    |                         |
| 33 52 16 13-0078 EA 2" Anodless Gas Riser .....  | 225.90                    |                         |
| <b>33 52 16 13-0079 Brass Service Adapter</b> (33 52 16 13-0053)   |                           |                         |
| 33 52 16 13-0080 EA 1/2" Brass Service Adapter .....   | 90.96                     |                         |
| 33 52 16 13-0081 EA 3/4" Brass Service Adapter .....   | 100.09                    |                         |
| 33 52 16 13-0082 EA 1" Brass Service Adapter .....   | 120.05                    |                         |
| 33 52 16 13-0083 EA 1-1/4" Brass Service Adapter .....   | 145.28                    |                         |
| 33 52 16 13-0084 EA 1-1/2" Brass Service Adapter .....   | 174.06                    |                         |
| 33 52 16 13-0085 EA 2" Brass Service Adapter .....   | 208.88                    |                         |
| 33 52 16 13-0086 EA 2-1/2" Brass Service Adapter .....   | 348.79                    |                         |
| 33 52 16 13-0087 EA 3" Brass Service Adapter .....   | 425.92                    |                         |
| 33 52 16 13-0088 EA 4" Brass Service Adapter .....   | 612.61                    |                         |
| <b>33 52 16 23 Medium Density Polyethylene Piping for Natural Gas</b> (33 52 16)                               |                           |                         |
| <b>33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping</b> (33 52 16 23)               |                           |                         |
| Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.                     |                           |                         |
| 33 52 16 23-0002 LF 1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....       | 4.75                      | 2.17                    |
| For Colors, Add  | 0.05                      |                         |
| 33 52 16 23-0003 LF 3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....      | 5.25                      | 2.33                    |
| For SDR 13.5, Deduct   | -0.11                     |                         |
| For Colors, Add  | 0.07                      |                         |
| 33 52 16 23-0004 LF 1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 5.75                      | 2.49                    |
| For SDR 13.5, Deduct   | -0.13                     |                         |
| For Colors, Add  | 0.08                      |                         |
| 33 52 16 23-0005 LF 1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....    | 6.28                      | 2.64                    |
| For SDR 13.5, Deduct   | -0.16                     |                         |
| For Colors, Add  | 0.10                      |                         |
| 33 52 16 23-0006 LF 1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....    | 7.13                      | 3.18                    |
| For SDR 13.5, Deduct   | -0.22                     |                         |
| For Colors, Add  | 0.14                      |                         |
| 33 52 16 23-0007 LF 2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 7.99                      | 3.45                    |
| For SDR 13.5, Deduct   | -0.29                     |                         |
| For SDR 15.5, Deduct   | -0.53                     |                         |
| For Colors, Add  | 0.19                      |                         |
| 33 52 16 23-0008 LF 2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....    | 9.85                      | 4.04                    |
| For SDR 13.5, Deduct   | -0.48                     |                         |
| For SDR 15.5, Deduct   | -0.88                     |                         |
| For Colors, Add  | 0.31                      |                         |
| 33 52 16 23-0009 LF 3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 11.90                     | 4.81                    |
| For SDR 13.5, Deduct   | -0.66                     |                         |
| For SDR 15.5, Deduct   | -1.21                     |                         |
| For Colors, Add  | 0.42                      |                         |
| 33 52 16 23-0010 LF 4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 17.88                     | 4.90                    |
| For SDR 13.5, Deduct   | -1.22                     |                         |
| For SDR 15.5, Deduct   | -2.23                     |                         |
| For Colors, Add  | 0.78                      |                         |
| 33 52 16 23-0011 LF 5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 22.47                     | 4.90                    |
| For SDR 13.5, Deduct   | -1.69                     |                         |
| For SDR 15.5, Deduct   | -3.10                     |                         |
| For Colors, Add  | 1.09                      |                         |
| 33 52 16 23-0012 LF 6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 27.18                     | 4.90                    |
| For SDR 13.5, Deduct   | -2.16                     |                         |
| For SDR 15.5, Deduct   | -3.96                     |                         |
| For Colors, Add  | 1.39                      |                         |
| 33 52 16 23-0013 LF 8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe .....        | 39.97                     | 6.13                    |
| For SDR 13.5, Deduct   | -3.59                     |                         |
| For SDR 15.5, Deduct   | -6.60                     |                         |
| For Colors, Add  | 2.32                      |                         |
| <b>33 52 16 26 High Density Polyethylene Piping for Natural Gas</b> (33 52 16)                                 |                           |                         |
| <b>33 52 16 26-0001 High Density Polyethylene (HDPE) Gas Distribution Piping</b> (33 52 16 26)                 |                           |                         |
| Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping. |                           |                         |
| 33 52 16 26-0002 LF 1/2" Diameter, SDR 9 High Density Polyethylene (HDPE) Gas Distribution Pipe .....          | 4.82                      | 2.17                    |
| 33 52 16 26-0003 LF 3/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe .....         | 5.35                      | 2.33                    |
| For SDR 13.5, Deduct   | -0.12                     |                         |



|  |              |           |
|--|--------------|-----------|
| <b>Utilities</b>                                 | <b>33</b>    | <b>CS</b> |
| <b>Hydrocarbon Utilities</b>                     | <b>33 50</b> |           |
| <b>Hydrocarbon Transmission and Distribution</b> | <b>33 52</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                   | DEMOLITION<br>UNIT COST |
|---|---|-------------------------|
| 33 52 16 26-0004 LF 1" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i>  | 5.85<br>-0.14                               | 2.49                    |
| 33 52 16 26-0005 LF 1-1/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i>  | 6.41<br>-0.17                               | 2.64                    |
| 33 52 16 26-0006 LF 1-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i>  | 7.31<br>-0.24                               | 3.18                    |
| 33 52 16 26-0007 LF 2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i><br><i>For SDR 15.5, Deduct</i><br><i>For SDR 17, Deduct</i>                              | 8.22<br>-0.32<br>-0.58<br>-0.85             | 3.45                    |
| 33 52 16 26-0008 LF 2-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i><br><i>For SDR 15.5, Deduct</i><br><i>For SDR 17, Deduct</i>                          | 10.24<br>-0.53<br>-0.97<br>-1.41            | 4.04                    |
| 33 52 16 26-0009 LF 3" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i><br><i>For SDR 15.5, Deduct</i><br><i>For SDR 17, Deduct</i><br><i>For SDR 21, Deduct</i> | 12.43<br>-0.72<br>-1.33<br>-1.93<br>-2.64   | 4.81                    |
| 33 52 16 26-0010 LF 4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i><br><i>For SDR 15.5, Deduct</i><br><i>For SDR 17, Deduct</i><br><i>For SDR 21, Deduct</i> | 18.86<br>-1.34<br>-2.46<br>-3.57<br>-4.88   | 4.90                    |
| 33 52 16 26-0011 LF 6" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i><br><i>For SDR 15.5, Deduct</i><br><i>For SDR 17, Deduct</i><br><i>For SDR 21, Deduct</i> | 28.92<br>-2.37<br>-4.36<br>-6.33<br>-8.66   | 4.90                    |
| 33 52 16 26-0012 LF 8" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....<br><i>For SDR 13.5, Deduct</i><br><i>For SDR 15.5, Deduct</i><br><i>For SDR 17, Deduct</i><br><i>For SDR 21, Deduct</i> | 42.86<br>-3.95<br>-7.26<br>-10.54<br>-14.42 | 6.13                    |

**33 53 Hydrocarbon Utility Pressure Regulation** (33 50)

**33 53 16 Gas Hydrocarbon Pressure Regulation** (33 53)

**33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends** (33 53 16)

|   |          |        |
|---|----------|--------|
| 33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End.....   | 278.67   | 24.50  |
| 33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End.....     | 284.23   | 24.50  |
| 33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End..... | 297.57   | 29.09  |
| 33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End..... | 971.23   | 33.68  |
| 33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End.....     | 1,041.53 | 52.16  |
| 33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End.....     | 2,912.24 | 117.02 |
| 33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End.....     | 4,041.95 | 155.08 |

**33 56 Hydrocarbon Storage** (33 50)

**33 56 13 Aboveground Hydrocarbon Storage Tanks** (33 56)

See CSI section 23 13 23 00-0000 for aboveground storage tanks.

**33 56 33 Underground Hydrocarbon Storage** (33 56)

See CSI section 23 13 13 00-0000 for underground storage tanks.

**33 59 Hydrocarbon Utility Metering** (33 50)

**33 59 11 Diaphragm/Bellows Hydrocarbons Meters** (33 59)

**33 59 11 00-0001 Diaphragm Meters** (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections.

Excludes pressure and temperature compensation.

|  |                           |        |
|--|---------------------------|--------|
| 33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i>     | 699.32<br>8.40<br>26.50   | 95.87  |
| 33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i>    | 1,356.91<br>8.40<br>26.50 | 146.62 |
| 33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i>    | 1,584.26<br>8.40<br>26.50 | 146.62 |
| 33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i>    | 3,400.05<br>8.40<br>26.50 | 183.28 |
| 33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i>  | 3,854.86<br>8.40<br>26.50 | 225.57 |
| 33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i>   | 5,024.55<br>8.40<br>26.50 | 183.28 |
| 33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....<br><i>For Temperature And Pressure Compensation, Add</i><br><i>For Pulsers, Add</i> | 5,603.01<br>8.40<br>26.50 | 225.57 |

**33 Utilities****33 50 Hydrocarbon Utilities****33 59 Hydrocarbon Utility Metering**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST  | DEMOLITION<br>UNIT COST |
|---|----------------------------|-------------------------|
| 33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....<br><i>For Temperature And Pressure Compensation, Add<br/>For Pulsers, Add</i> | 7,372.92<br>8.40<br>26.50  | 239.67                  |
| 33 59 11 00-0010 EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....<br><i>For Temperature And Pressure Compensation, Add<br/>For Pulsers, Add</i> | 10,411.23<br>8.40<br>26.50 | 281.96                  |
| 33 59 11 00-0011 EA 5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded .....<br><i>For Temperature And Pressure Compensation, Add<br/>For Pulsers, Add</i> | 15,919.25<br>8.40<br>26.50 | 465.24                  |

**33 59 16 Hydrocarbons Turbine Meters (33 59)****33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)**

Note: Maximum working pressure 175 PSI, flanged end connections.

|   |           |        |
|---|-----------|--------|
| 33 59 16 00-0002 EA 4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....   | 12,725.64 | 462.48 |
| 33 59 16 00-0003 EA 6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....   | 13,543.70 | 537.08 |
| 33 59 16 00-0004 EA 8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....   | 20,932.89 | 574.61 |
| 33 59 16 00-0005 EA 10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged .....  | 40,668.45 | 699.52 |
| 33 59 16 00-0006 EA 12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged ..... | 67,216.61 | 874.40 |

**33 60 Hydronic and Steam Energy Utilities (33)****33 61 Hydronic Energy Distribution (33 60)****33 61 13 Buried Hydronic Energy Distribution (33 61)****33 61 13 00-0001 Glass Lined Steel Piping (33 61 13)****33 61 13 00-0002 Glass Lined Steel Pipe (33 61 13 00-0001)**

Note: 150 PSIG

|  |           |  |
|--|-----------|--|
| 33 61 13 00-0003 EA 4" X 1' Glass Lined Steel Pipe .....   | 1,573.67  |  |
| 33 61 13 00-0004 EA 4" X 2' Glass Lined Steel Pipe .....   | 1,737.46  |  |
| 33 61 13 00-0005 EA 4" X 3' Glass Lined Steel Pipe .....   | 1,737.46  |  |
| 33 61 13 00-0006 EA 4" X 4' Glass Lined Steel Pipe .....   | 2,065.04  |  |
| 33 61 13 00-0007 EA 4" X 5' Glass Lined Steel Pipe .....   | 2,935.17  |  |
| 33 61 13 00-0008 EA 4" X 10' Glass Lined Steel Pipe .....  | 3,399.23  |  |
| 33 61 13 00-0009 EA 6" X 1' Glass Lined Steel Pipe .....   | 1,317.75  |  |
| 33 61 13 00-0010 EA 6" X 2' Glass Lined Steel Pipe .....   | 2,853.27  |  |
| 33 61 13 00-0011 EA 6" X 3' Glass Lined Steel Pipe .....   | 2,853.27  |  |
| 33 61 13 00-0012 EA 6" X 4' Glass Lined Steel Pipe .....   | 3,232.03  |  |
| 33 61 13 00-0013 EA 6" X 5' Glass Lined Steel Pipe .....   | 5,214.56  |  |
| 33 61 13 00-0014 EA 6" X 10' Glass Lined Steel Pipe .....  | 6,034.99  |  |
| 33 61 13 00-0015 EA 8" X 1' Glass Lined Steel Pipe .....   | 3,254.96  |  |
| 33 61 13 00-0016 EA 8" X 2' Glass Lined Steel Pipe .....   | 3,920.35  |  |
| 33 61 13 00-0017 EA 8" X 3' Glass Lined Steel Pipe .....   | 3,920.35  |  |
| 33 61 13 00-0018 EA 8" X 4' Glass Lined Steel Pipe .....   | 4,508.48  |  |
| 33 61 13 00-0019 EA 8" X 5' Glass Lined Steel Pipe .....   | 6,106.65  |  |
| 33 61 13 00-0020 EA 8" X 10' Glass Lined Steel Pipe .....  | 6,940.47  |  |
| 33 61 13 00-0021 EA 12" X 1' Glass Lined Steel Pipe .....  | 8,832.22  |  |
| 33 61 13 00-0022 EA 12" X 2' Glass Lined Steel Pipe .....  | 8,832.22  |  |
| 33 61 13 00-0023 EA 12" X 3' Glass Lined Steel Pipe .....  | 9,152.97  |  |
| 33 61 13 00-0024 EA 12" X 4' Glass Lined Steel Pipe .....  | 9,761.53  |  |
| 33 61 13 00-0025 EA 12" X 5' Glass Lined Steel Pipe .....  | 10,953.59 |  |
| 33 61 13 00-0026 EA 12" X 10' Glass Lined Steel Pipe ..... | 13,531.03 |  |
| 33 61 13 00-0027 EA 16" X 10' Glass Lined Steel Pipe ..... | 18,431.50 |  |

**33 61 13 00-0028 90 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)**

Note: 150 PSIG

|  |           |  |
|--|-----------|--|
| 33 61 13 00-0029 EA 4" 90 Degree Elbow, Glass Lined Steel Fittings.....  | 1,897.51  |  |
| 33 61 13 00-0030 EA 6" 90 Degree Elbow, Glass Lined Steel Fittings.....  | 3,100.87  |  |
| 33 61 13 00-0031 EA 8" 90 Degree Elbow, Glass Lined Steel Fittings.....  | 5,708.86  |  |
| 33 61 13 00-0032 EA 10" 90 Degree Elbow, Glass Lined Steel Fittings..... | 10,139.27 |  |
| 33 61 13 00-0033 EA 12" 90 Degree Elbow, Glass Lined Steel Fittings..... | 15,017.19 |  |
| 33 61 13 00-0034 EA 14" 90 Degree Elbow, Glass Lined Steel Fittings..... | 17,636.81 |  |
| 33 61 13 00-0035 EA 16" 90 Degree Elbow, Glass Lined Steel Fittings..... | 20,256.01 |  |

**33 61 13 00-0036 45 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)**

Note: 150 PSIG

|  |           |  |
|--|-----------|--|
| 33 61 13 00-0037 EA 4" 45 Degree Elbow, Glass Lined Steel Fittings.....  | 1,859.97  |  |
| 33 61 13 00-0038 EA 6" 45 Degree Elbow, Glass Lined Steel Fittings.....  | 3,100.87  |  |
| 33 61 13 00-0039 EA 8" 45 Degree Elbow, Glass Lined Steel Fittings.....  | 5,968.19  |  |
| 33 61 13 00-0040 EA 10" 45 Degree Elbow, Glass Lined Steel Fittings..... | 16,813.67 |  |
| 33 61 13 00-0041 EA 12" 45 Degree Elbow, Glass Lined Steel Fittings..... | 15,017.19 |  |
| 33 61 13 00-0042 EA 14" 45 Degree Elbow, Glass Lined Steel Fittings..... | 17,636.81 |  |
| 33 61 13 00-0043 EA 16" 45 Degree Elbow, Glass Lined Steel Fittings..... | 20,256.01 |  |



| MINOR | CSI              | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------------|-----|---|------------------------|----------------------|
| 33 61 | 13 00-0044       |     | <b>Tee, Glass Lined Steel Fittings</b> <small>(33 61 13 00-0001)</small>  |                        |                      |
|       |                  |     | Note: 150 PSIG  |                        |                      |
|       | 33 61 13 00-0045 | EA  | 4" Tee, Glass Lined Steel Fittings.....   | 2,949.88               |                      |
|       | 33 61 13 00-0046 | EA  | 6" Tee, Glass Lined Steel Fittings.....   | 5,061.40               |                      |
|       | 33 61 13 00-0047 | EA  | 8" Tee, Glass Lined Steel Fittings.....   | 7,490.33               |                      |
|       | 33 61 13 00-0048 | EA  | 10" Tee, Glass Lined Steel Fittings.....  | 12,936.11              |                      |
|       | 33 61 13 00-0049 | EA  | 12" Tee, Glass Lined Steel Fittings.....  | 18,408.20              |                      |
|       | 33 61 13 00-0050 | EA  | 14" Tee, Glass Lined Steel Fittings.....  | 21,692.16              |                      |
|       | 33 61 13 00-0051 | EA  | 16" Tee, Glass Lined Steel Fittings.....  | 24,917.50              |                      |
| 33 61 | 13 00-0052       |     | <b>Prefabricated/Preinsulated Pipe</b> <small>(33 61 13)</small>  |                        |                      |
|       |                  |     | Note: Includes coupling per full length of pipe. Insulation and jacketing sealed for seamless system including all fittings. Excludes excavation and backfill. See CSI section 23 01 20 91-0041 for purging of existing system. |                        |                      |
| 33 61 | 13 00-0053       |     | <b>Preinsulated Schedule 40 Black Steel Pipe</b> <small>(33 61 13 00-0052)</small>  |                        |                      |
|       |                  |     | Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.  |                        |                      |
| 33 61 | 13 00-0054       |     | <b>Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small>  |                        |                      |
|       |                  |     | Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                        |                      |
|       | 33 61 13 00-0055 | LF  | 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 161.38                 | 21.95                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 2.64                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 26.42                  |                      |
|       | 33 61 13 00-0056 | LF  | 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 176.88                 | 23.69                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 2.91                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 29.06                  |                      |
|       | 33 61 13 00-0057 | LF  | 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 197.19                 | 25.16                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.27                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 32.73                  |                      |
|       | 33 61 13 00-0058 | LF  | 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 211.05                 | 26.56                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.51                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 35.12                  |                      |
|       | 33 61 13 00-0059 | LF  | 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 221.21                 | 28.20                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.67                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 36.72                  |                      |
|       | 33 61 13 00-0060 | LF  | 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 246.06                 | 34.87                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.99                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 39.91                  |                      |
|       | 33 61 13 00-0061 | LF  | 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 272.28                 | 42.55                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.31                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 43.11                  |                      |
|       | 33 61 13 00-0062 | LF  | 4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 343.68                 | 54.19                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.43                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 54.28                  |                      |
|       | 33 61 13 00-0063 | LF  | 5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 435.75                 | 66.37                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.95                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 69.45                  |                      |
|       | 33 61 13 00-0064 | LF  | 6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 506.82                 | 77.76                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.06                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 80.63                  |                      |
|       | 33 61 13 00-0065 | LF  | 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 712.02                 | 93.96                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 11.73                  |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 117.35                 |                      |
|       | 33 61 13 00-0066 | LF  | 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....  | 923.43                 | 111.81               |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 15.49                  |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 154.87                 |                      |
|       | 33 61 13 00-0067 | LF  | 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....  | 1,149.41               | 137.60               |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 19.32                  |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 193.19                 |                      |
| 33 61 | 13 00-0068       |     | <b>Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small>  |                        |                      |
|       |                  |     | Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                        |                      |
|       | 33 61 13 00-0069 | LF  | 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 174.59                 | 21.95                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 2.91                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 29.07                  |                      |
|       | 33 61 13 00-0070 | LF  | 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 191.41                 | 23.69                |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.20                   |                      |
|       |                  |     | <i>For Schedule 80 Pipe, Add</i>  | 31.96                  |                      |



**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|--|---------------------------|-------------------------|
| 33 61 13 00-0071        | LF  |     | 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 213.56                    | 25.16                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.60                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 36.00                     |                         |
| 33 61 13 00-0072        | LF  |     | 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 228.62                    | 26.56                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.86                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 38.64                     |                         |
| 33 61 13 00-0073        | LF  |     | 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 239.57                    | 28.20                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.04                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 40.39                     |                         |
| 33 61 13 00-0074        | LF  |     | 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 266.02                    | 34.87                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.39                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 43.91                     |                         |
| 33 61 13 00-0075        | LF  |     | 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 293.83                    | 42.55                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.74                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 47.42                     |                         |
| 33 61 13 00-0076        | LF  |     | 4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 370.82                    | 54.19                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 5.97                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 59.71                     |                         |
| 33 61 13 00-0077        | LF  |     | 5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 470.47                    | 66.37                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 7.64                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 76.40                     |                         |
| 33 61 13 00-0078        | LF  |     | 6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 547.13                    | 77.76                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 8.87                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 88.69                     |                         |
| 33 61 13 00-0079        | LF  |     | 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 770.70                    | 93.96                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 12.91                     |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 129.08                    |                         |
| 33 61 13 00-0080        | LF  |     | 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 1,000.87                  | 111.81                  |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 17.04                     |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 170.36                    |                         |
| 33 61 13 00-0081        | LF  |     | 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 1,246.00                  | 137.60                  |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 21.25                     |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 212.50                    |                         |
| <b>33 61 13 00-0082</b> |     |     | <b>Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small>   |                           |                         |
|                         |     |     | Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                           |                         |
| 33 61 13 00-0083        | LF  |     | 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 181.20                    | 21.95                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.04                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 30.39                     |                         |
| 33 61 13 00-0084        | LF  |     | 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 198.67                    | 23.69                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.34                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 33.42                     |                         |
| 33 61 13 00-0085        | LF  |     | 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 221.74                    | 25.16                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.76                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 37.64                     |                         |
| 33 61 13 00-0086        | LF  |     | 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 237.40                    | 26.56                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.04                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 40.39                     |                         |
| 33 61 13 00-0087        | LF  |     | 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 248.75                    | 28.20                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.22                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 42.23                     |                         |
| 33 61 13 00-0088        | LF  |     | 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 276.00                    | 34.87                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.59                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 45.90                     |                         |
| 33 61 13 00-0089        | LF  |     | 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 304.61                    | 42.55                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 4.96                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 49.57                     |                         |
| 33 61 13 00-0090        | LF  |     | 4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 384.39                    | 54.19                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 6.24                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 62.43                     |                         |
| 33 61 13 00-0091        | LF  |     | 5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 487.84                    | 66.37                   |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 7.99                      |                         |
|                         |     |     | <i>For Schedule 80 Pipe, Add</i>   | 79.87                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST   | DEMOLITION<br>UNIT COST |
|--|-----------------------------|-------------------------|
| 33 61 13 00-0092 LF 6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>  | 567.29<br>9.27<br>92.72     | 77.76                   |
| 33 61 13 00-0093 LF 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>  | 800.03<br>13.50<br>134.95   | 93.96                   |
| 33 61 13 00-0094 LF 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And<br>Fiberglass Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i> | 1,039.58<br>17.81<br>178.10 | 111.81                  |
| 33 61 13 00-0095 LF 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And<br>Fiberglass Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i> | 1,294.30<br>22.22<br>222.16 | 137.60                  |
| <b>33 61 13 00-0096 Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small><br>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                             |                         |
| 33 61 13 00-0097 LF 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>    | 191.10<br>3.24<br>32.37     | 21.95                   |
| 33 61 13 00-0098 LF 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 209.57<br>3.56<br>35.60     | 23.69                   |
| 33 61 13 00-0099 LF 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>  | 234.01<br>4.01<br>40.09     | 25.16                   |
| 33 61 13 00-0100 LF 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>  | 250.57<br>4.30<br>43.03     | 26.56                   |
| 33 61 13 00-0101 LF 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 262.52<br>4.50<br>44.98     | 28.20                   |
| 33 61 13 00-0102 LF 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>  | 290.97<br>4.89<br>48.90     | 34.87                   |
| 33 61 13 00-0103 LF 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 320.77<br>5.28<br>52.81     | 42.55                   |
| 33 61 13 00-0104 LF 4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 404.75<br>6.65<br>66.50     | 54.19                   |
| 33 61 13 00-0105 LF 5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 513.88<br>8.51<br>85.08     | 66.37                   |
| 33 61 13 00-0106 LF 6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 597.52<br>9.88<br>98.77     | 77.76                   |
| 33 61 13 00-0107 LF 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>      | 844.04<br>14.38<br>143.75   | 93.96                   |
| 33 61 13 00-0108 LF 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>     | 1,097.66<br>18.97<br>189.71 | 111.81                  |
| 33 61 13 00-0109 LF 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i><br><i>For Schedule 80 Pipe, Add</i>     | 1,366.74<br>23.67<br>236.65 | 137.60                  |
| <b>33 61 13 00-0110 Preinsulated Black Steel Fittings</b> <small>(33 61 13 00-0052)</small><br>Note: No excavation or backfill.  |                             |                         |
| <b>33 61 13 00-0111 Elbows</b> <small>(33 61 13 00-0110)</small>   |                             |                         |
| <b>33 61 13 00-0112 Elbows</b> <small>(33 61 13 00-0111)</small><br>Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                             |                         |
| 33 61 13 00-0113 EA 3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced<br>Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 1,150.33<br>20.13           |                         |

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 33 61 13 00-0114        | EA  | 1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,185.13                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 20.60                     |                         |
| 33 61 13 00-0115        | EA  | 1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,355.42                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.44                     |                         |
| 33 61 13 00-0116        | EA  | 1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,502.70                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 25.57                     |                         |
| 33 61 13 00-0117        | EA  | 2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,667.99                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 26.64                     |                         |
| 33 61 13 00-0118        | EA  | 2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,876.59                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 27.70                     |                         |
| 33 61 13 00-0119        | EA  | 3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,174.01                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 31.97                     |                         |
| 33 61 13 00-0120        | EA  | 4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,536.82                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 37.29                     |                         |
| 33 61 13 00-0121        | EA  | 5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 3,116.84                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 47.95                     |                         |
| 33 61 13 00-0122        | EA  | 6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 3,478.28                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 54.46                     |                         |
| 33 61 13 00-0123        | EA  | 8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 4,944.79                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 78.73                     |                         |
| 33 61 13 00-0124        | EA  | 10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 6,444.38                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 100.64                    |                         |
| 33 61 13 00-0125        | EA  | 12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 8,355.63                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 133.20                    |                         |
| <b>33 61 13 00-0126</b> |     | <b>Elbows</b> <small>(33 61 13 00-0111)</small>   |                           |                         |
|                         |     | Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0127        | EA  | 3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,225.81                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 21.64                     |                         |
| 33 61 13 00-0128        | EA  | 1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,262.39                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.15                     |                         |
| 33 61 13 00-0129        | EA  | 1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,443.33                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 25.20                     |                         |
| 33 61 13 00-0130        | EA  | 1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,598.60                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 27.49                     |                         |
| 33 61 13 00-0131        | EA  | 2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,767.89                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 28.64                     |                         |
| 33 61 13 00-0132        | EA  | 2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,980.48                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 29.78                     |                         |
| 33 61 13 00-0133        | EA  | 3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 2,293.89                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 34.36                     |                         |
| 33 61 13 00-0134        | EA  | 4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 2,676.68                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 40.09                     |                         |
| 33 61 13 00-0135        | EA  | 5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 3,296.66                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 51.55                     |                         |
| 33 61 13 00-0136        | EA  | 6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 3,682.52                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 58.55                     |                         |
| 33 61 13 00-0137        | EA  | 8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 5,240.04                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 84.64                     |                         |
| 33 61 13 00-0138        | EA  | 10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....      | 6,821.77                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 108.18                    |                         |
| 33 61 13 00-0139        | EA  | 12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....      | 8,855.11                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 143.18                    |                         |
| <b>33 61 13 00-0140</b> |     | <b>Elbows</b> <small>(33 61 13 00-0111)</small>   |                           |                         |
|                         |     | Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.                                    |                           |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0141 EA 3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,301.29                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.15                     |                         |
| 33 61 13 00-0142 EA 1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,339.64                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.69                     |                         |
| 33 61 13 00-0143 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,531.24                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 26.96                     |                         |
| 33 61 13 00-0144 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,694.50                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 29.41                     |                         |
| 33 61 13 00-0145 EA 2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,867.78                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 30.63                     |                         |
| 33 61 13 00-0146 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 2,084.37                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 31.86                     |                         |
| 33 61 13 00-0147 EA 3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,413.76                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 36.76                     |                         |
| 33 61 13 00-0148 EA 4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,816.53                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 42.89                     |                         |
| 33 61 13 00-0149 EA 5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 3,476.47                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 55.14                     |                         |
| 33 61 13 00-0150 EA 6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 3,886.75                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 62.63                     |                         |
| 33 61 13 00-0151 EA 8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 5,535.29                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 90.54                     |                         |
| 33 61 13 00-0152 EA 10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 7,199.15                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 115.73                    |                         |
| 33 61 13 00-0153 EA 12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 9,354.59                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 153.17                    |                         |
| <b>33 61 13 00-0154 Elbows</b> <small>(33 61 13 00-0111)</small>  |                           |                         |
| <i>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>   |                           |                         |
| 33 61 13 00-0155 EA 3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,376.77                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 24.66                     |                         |
| 33 61 13 00-0156 EA 1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,416.89                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 25.24                     |                         |
| 33 61 13 00-0157 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,619.14                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 28.72                     |                         |
| 33 61 13 00-0158 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,790.41                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 31.33                     |                         |
| 33 61 13 00-0159 EA 2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,967.68                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 32.63                     |                         |
| 33 61 13 00-0160 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,188.27                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 33.94                     |                         |
| 33 61 13 00-0161 EA 3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 2,533.64                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 39.16                     |                         |
| 33 61 13 00-0162 EA 4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 2,956.39                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 45.69                     |                         |
| 33 61 13 00-0163 EA 5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 3,656.28                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 58.74                     |                         |
| 33 61 13 00-0164 EA 6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 4,090.98                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 66.72                     |                         |
| 33 61 13 00-0165 EA 8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 5,830.54                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 96.45                     |                         |
| 33 61 13 00-0166 EA 10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 7,576.54                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 123.28                    |                         |
| 33 61 13 00-0167 EA 12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 9,854.08                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 163.16                    |                         |

33 61 13 00-0168 Tees (33 61 13 00-0110)

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR | CSI              | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------------|-----|---|------------------------|----------------------|
| 33 61 | 13 00-0169       |     | <b>Tees</b> <small>(33 61 13 00-0169)</small><br>Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing. |                        |                      |
|       | 33 61 13 00-0170 | EA  | 3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                 | 1,710.32               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 29.89                  |                      |
|       | 33 61 13 00-0171 | EA  | 1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 1,762.04               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 30.59                  |                      |
|       | 33 61 13 00-0172 | EA  | 1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,015.30               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 34.81                  |                      |
|       | 33 61 13 00-0173 | EA  | 1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,234.59               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 37.98                  |                      |
|       | 33 61 13 00-0174 | EA  | 2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 2,481.40               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 39.56                  |                      |
|       | 33 61 13 00-0175 | EA  | 2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,793.23               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 41.14                  |                      |
|       | 33 61 13 00-0176 | EA  | 3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 3,237.05               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 47.47                  |                      |
|       | 33 61 13 00-0177 | EA  | 4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 3,777.26               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 55.38                  |                      |
|       | 33 61 13 00-0178 | EA  | 5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 4,643.12               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 71.21                  |                      |
|       | 33 61 13 00-0179 | EA  | 6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 5,177.61               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 80.88                  |                      |
|       | 33 61 13 00-0180 | EA  | 8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 7,356.28               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 116.92                 |                      |
|       | 33 61 13 00-0181 | EA  | 10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                  | 9,593.58               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 149.45                 |                      |
|       | 33 61 13 00-0182 | EA  | 12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                  | 12,433.54              |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 197.79                 |                      |
| 33 61 | 13 00-0183       |     | <b>Tees</b> <small>(33 61 13 00-0183)</small><br>Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                        |                      |
|       | 33 61 13 00-0184 | EA  | 3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 1,822.40               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 32.13                  |                      |
|       | 33 61 13 00-0185 | EA  | 1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 1,876.76               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 32.89                  |                      |
|       | 33 61 13 00-0186 | EA  | 1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                 | 2,145.84               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 37.42                  |                      |
|       | 33 61 13 00-0187 | EA  | 1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                 | 2,377.00               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 40.82                  |                      |
|       | 33 61 13 00-0188 | EA  | 2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 2,629.74               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 42.53                  |                      |
|       | 33 61 13 00-0189 | EA  | 2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                 | 2,947.51               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 44.23                  |                      |
|       | 33 61 13 00-0190 | EA  | 3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 3,415.06               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 51.03                  |                      |
|       | 33 61 13 00-0191 | EA  | 4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 3,984.94               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 59.54                  |                      |
|       | 33 61 13 00-0192 | EA  | 5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 4,910.14               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 76.55                  |                      |
|       | 33 61 13 00-0193 | EA  | 6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 5,480.89               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 86.94                  |                      |
|       | 33 61 13 00-0194 | EA  | 8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                     | 7,794.72               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 125.69                 |                      |
|       | 33 61 13 00-0195 | EA  | 10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                    | 10,154.00              |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 160.65                 |                      |
|       | 33 61 13 00-0196 | EA  | 12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                    | 13,175.27              |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 212.63                 |                      |



| MINOR | CSI | UOM | DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|-----|-----|-------------|------------------------|----------------------|
|-------|-----|-----|-------------|------------------------|----------------------|

| MINOR | CSI              | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------------|-----|---|------------------------|----------------------|
| 33 61 | 13 00-0197       |     | <b>Tees</b> <small>(33 61 13 00-0168)</small><br>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing. |                        |                      |
|       | 33 61 13 00-0198 | EA  | 3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                 | 1,934.49               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 34.37                  |                      |
|       | 33 61 13 00-0199 | EA  | 1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 1,991.49               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 35.18                  |                      |
|       | 33 61 13 00-0200 | EA  | 1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,276.38               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 40.03                  |                      |
|       | 33 61 13 00-0201 | EA  | 1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,519.42               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 43.67                  |                      |
|       | 33 61 13 00-0202 | EA  | 2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 2,778.09               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 45.49                  |                      |
|       | 33 61 13 00-0203 | EA  | 2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 3,101.79               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 47.31                  |                      |
|       | 33 61 13 00-0204 | EA  | 3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 3,593.08               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 54.59                  |                      |
|       | 33 61 13 00-0205 | EA  | 4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 4,192.63               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 63.69                  |                      |
|       | 33 61 13 00-0206 | EA  | 5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 5,177.16               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 81.89                  |                      |
|       | 33 61 13 00-0207 | EA  | 6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 5,784.18               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 93.01                  |                      |
|       | 33 61 13 00-0208 | EA  | 8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 8,233.17               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 134.46                 |                      |
|       | 33 61 13 00-0209 | EA  | 10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                  | 10,714.41              |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 171.86                 |                      |
|       | 33 61 13 00-0210 | EA  | 12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                  | 13,917.01              |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 227.46                 |                      |

| MINOR | CSI              | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|------------------|-----|---|------------------------|----------------------|
| 33 61 | 13 00-0211       |     | <b>Tees</b> <small>(33 61 13 00-0168)</small><br>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing. |                        |                      |
|       | 33 61 13 00-0212 | EA  | 3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                 | 2,046.57               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 36.61                  |                      |
|       | 33 61 13 00-0213 | EA  | 1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 2,106.21               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 37.48                  |                      |
|       | 33 61 13 00-0214 | EA  | 1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,406.93               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 42.64                  |                      |
|       | 33 61 13 00-0215 | EA  | 1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 2,661.83               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 46.52                  |                      |
|       | 33 61 13 00-0216 | EA  | 2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 2,926.44               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 48.46                  |                      |
|       | 33 61 13 00-0217 | EA  | 2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....               | 3,256.07               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 50.40                  |                      |
|       | 33 61 13 00-0218 | EA  | 3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 3,771.09               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 58.15                  |                      |
|       | 33 61 13 00-0219 | EA  | 4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 4,400.31               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 67.84                  |                      |
|       | 33 61 13 00-0220 | EA  | 5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 5,444.19               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 87.23                  |                      |
|       | 33 61 13 00-0221 | EA  | 6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 6,087.46               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 99.07                  |                      |
|       | 33 61 13 00-0222 | EA  | 8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                   | 8,671.62               |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 143.23                 |                      |
|       | 33 61 13 00-0223 | EA  | 10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                  | 11,274.83              |                      |
|       |                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 183.07                 |                      |

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 33 61 13 00-0224        | EA  | 12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 14,658.74                 |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 242.30                    |                         |
| <b>33 61 13 00-0225</b> |     | <b>Reducers</b> (33 61 13 00-0110)  |                           |                         |
| <b>33 61 13 00-0226</b> |     | <b>Reducers</b> (33 61 13 00-0225)  |                           |                         |
|                         |     | Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0227        | EA  | 3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 964.89                    |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 16.71                     |                         |
| 33 61 13 00-0228        | EA  | 1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 994.49                    |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 17.10                     |                         |
| 33 61 13 00-0229        | EA  | 1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,137.83                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 19.46                     |                         |
| 33 61 13 00-0230        | EA  | 1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,262.83                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 21.23                     |                         |
| 33 61 13 00-0231        | EA  | 2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,407.81                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.11                     |                         |
| 33 61 13 00-0232        | EA  | 2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,603.01                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.99                     |                         |
| 33 61 13 00-0233        | EA  | 3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,849.36                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 26.53                     |                         |
| 33 61 13 00-0234        | EA  | 4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,152.31                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 30.95                     |                         |
| 33 61 13 00-0235        | EA  | 5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,637.57                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 39.80                     |                         |
| 33 61 13 00-0236        | EA  | 6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,940.07                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 45.20                     |                         |
| 33 61 13 00-0237        | EA  | 8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 4,174.98                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 65.35                     |                         |
| 33 61 13 00-0238        | EA  | 10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 5,448.31                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 83.53                     |                         |
| 33 61 13 00-0239        | EA  | 12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 7,051.29                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 110.55                    |                         |
| <b>33 61 13 00-0240</b> |     | <b>Reducers</b> (33 61 13 00-0225)  |                           |                         |
|                         |     | Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0241        | EA  | 3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,027.54                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 17.96                     |                         |
| 33 61 13 00-0242        | EA  | 1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,058.61                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 18.38                     |                         |
| 33 61 13 00-0243        | EA  | 1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,210.79                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 20.92                     |                         |
| 33 61 13 00-0244        | EA  | 1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,342.43                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.82                     |                         |
| 33 61 13 00-0245        | EA  | 2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,490.72                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.77                     |                         |
| 33 61 13 00-0246        | EA  | 2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,689.24                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 24.72                     |                         |
| 33 61 13 00-0247        | EA  | 3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,948.86                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 28.52                     |                         |
| 33 61 13 00-0248        | EA  | 4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 2,268.39                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 33.28                     |                         |
| 33 61 13 00-0249        | EA  | 5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 2,786.81                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 42.78                     |                         |
| 33 61 13 00-0250        | EA  | 6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 3,109.59                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 48.59                     |                         |
| 33 61 13 00-0251        | EA  | 8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 4,420.04                  |                         |
|                         |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 70.25                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0252 EA 10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 5,761.54                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 89.79                     |                         |
| 33 61 13 00-0253 EA 12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 7,465.86                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 118.84                    |                         |
| <b>33 61 13 00-0254 Reducers</b> <small>(33 61 13 00-0225)</small>  |                           |                         |
| <i>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>   |                           |                         |
| 33 61 13 00-0255 EA 3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 1,090.18                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 19.21                     |                         |
| 33 61 13 00-0256 EA 1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,122.73                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 19.66                     |                         |
| 33 61 13 00-0257 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,283.76                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.38                     |                         |
| 33 61 13 00-0258 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,422.02                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 24.41                     |                         |
| 33 61 13 00-0259 EA 2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,573.64                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 25.43                     |                         |
| 33 61 13 00-0260 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,775.47                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 26.44                     |                         |
| 33 61 13 00-0261 EA 3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,048.36                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 30.51                     |                         |
| 33 61 13 00-0262 EA 4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,384.47                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 35.60                     |                         |
| 33 61 13 00-0263 EA 5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,936.06                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 45.77                     |                         |
| 33 61 13 00-0264 EA 6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 3,279.10                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 51.98                     |                         |
| 33 61 13 00-0265 EA 8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 4,665.08                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 75.15                     |                         |
| 33 61 13 00-0266 EA 10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 6,074.77                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 96.06                     |                         |
| 33 61 13 00-0267 EA 12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 7,880.43                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 127.13                    |                         |
| <b>33 61 13 00-0268 Reducers</b> <small>(33 61 13 00-0225)</small>  |                           |                         |
| <i>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>   |                           |                         |
| 33 61 13 00-0269 EA 3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,152.83                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 20.46                     |                         |
| 33 61 13 00-0270 EA 1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,186.85                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 20.95                     |                         |
| 33 61 13 00-0271 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,356.72                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.84                     |                         |
| 33 61 13 00-0272 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,501.62                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 26.00                     |                         |
| 33 61 13 00-0273 EA 2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,656.55                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 27.09                     |                         |
| 33 61 13 00-0274 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,861.70                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 28.17                     |                         |
| 33 61 13 00-0275 EA 3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 2,147.85                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 32.50                     |                         |
| 33 61 13 00-0276 EA 4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 2,500.55                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 37.92                     |                         |
| 33 61 13 00-0277 EA 5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 3,085.30                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 48.75                     |                         |
| 33 61 13 00-0278 EA 6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 3,448.61                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 55.37                     |                         |



**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 33 61 13 00-0279        | EA  |     | 8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....      | 4,910.14               |                      |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 80.05                  |                      |
| 33 61 13 00-0280        | EA  |     | 10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 6,388.00               |                      |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 102.32                 |                      |
| 33 61 13 00-0281        | EA  |     | 12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 8,295.00               |                      |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 135.43                 |                      |
| <b>33 61 13 00-0282</b> |     |     | <b>Preinsulated Type K Copper Pipe</b> <small>(33 61 13 00-0052)</small>   |                        |                      |
|                         |     |     | Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.   |                        |                      |
| <b>33 61 13 00-0283</b> |     |     | <b>Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small>  |                        |                      |
|                         |     |     | Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.                                       |                        |                      |
| 33 61 13 00-0284        | LF  |     | 3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 49.83                  | 19.60                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.41                   |                      |
| 33 61 13 00-0285        | LF  |     | 1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 54.21                  | 21.16                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.45                   |                      |
| 33 61 13 00-0286        | LF  |     | 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 59.01                  | 22.47                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.51                   |                      |
| 33 61 13 00-0287        | LF  |     | 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 62.76                  | 23.74                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.54                   |                      |
| 33 61 13 00-0288        | LF  |     | 2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 66.17                  | 25.19                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.57                   |                      |
| 33 61 13 00-0289        | LF  |     | 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 77.57                  | 31.15                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.62                   |                      |
| 33 61 13 00-0290        | LF  |     | 3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 90.33                  | 38.01                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.67                   |                      |
| 33 61 13 00-0291        | LF  |     | 4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 114.57                 | 48.42                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.84                   |                      |
| 33 61 13 00-0292        | LF  |     | 5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 142.61                 | 59.29                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.07                   |                      |
| 33 61 13 00-0293        | LF  |     | 6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 166.50                 | 69.47                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.25                   |                      |
| 33 61 13 00-0294        | LF  |     | 8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 216.60                 | 84.27                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.82                   |                      |
| 33 61 13 00-0295        | LF  |     | 10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 269.54                 | 99.89                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 2.40                   |                      |
| 33 61 13 00-0296        | LF  |     | 12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 333.72                 | 122.92               |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 2.99                   |                      |
| <b>33 61 13 00-0297</b> |     |     | <b>Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small>  |                        |                      |
|                         |     |     | Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                        |                      |
| 33 61 13 00-0298        | LF  |     | 3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 51.87                  | 19.60                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.45                   |                      |
| 33 61 13 00-0299        | LF  |     | 1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 56.45                  | 21.16                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.49                   |                      |
| 33 61 13 00-0300        | LF  |     | 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 61.54                  | 22.47                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.56                   |                      |
| 33 61 13 00-0301        | LF  |     | 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 65.48                  | 23.74                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.60                   |                      |
| 33 61 13 00-0302        | LF  |     | 2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 69.01                  | 25.19                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.62                   |                      |
| 33 61 13 00-0303        | LF  |     | 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 80.66                  | 31.15                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.68                   |                      |
| 33 61 13 00-0304        | LF  |     | 3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 93.67                  | 38.01                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.73                   |                      |
| 33 61 13 00-0305        | LF  |     | 4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 118.77                 | 48.42                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.92                   |                      |
| 33 61 13 00-0306        | LF  |     | 5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 147.98                 | 59.29                |
|                         |     |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.18                   |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 61 13 00-0307 LF 6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 172.74                    | 69.47                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.37                      |                         |
| 33 61 13 00-0308 LF 8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 225.67                    | 84.27                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 2.00                      |                         |
| 33 61 13 00-0309 LF 10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 281.52                    | 99.89                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 2.64                      |                         |
| 33 61 13 00-0310 LF 12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 348.66                    | 122.92                  |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.29                      |                         |
| <b>33 61 13 00-0311 Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small>   |                           |                         |
| <small>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</small>  |                           |                         |
| 33 61 13 00-0312 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 52.89                     | 19.60                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.47                      |                         |
| 33 61 13 00-0313 LF 1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 57.58                     | 21.16                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.52                      |                         |
| 33 61 13 00-0314 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 62.80                     | 22.47                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.58                      |                         |
| 33 61 13 00-0315 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 66.83                     | 23.74                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.62                      |                         |
| 33 61 13 00-0316 LF 2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 70.43                     | 25.19                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.65                      |                         |
| 33 61 13 00-0317 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 82.20                     | 31.15                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.71                      |                         |
| 33 61 13 00-0318 LF 3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 95.33                     | 38.01                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.77                      |                         |
| 33 61 13 00-0319 LF 4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 120.87                    | 48.42                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.97                      |                         |
| 33 61 13 00-0320 LF 5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 150.67                    | 59.29                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.24                      |                         |
| 33 61 13 00-0321 LF 6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 175.86                    | 69.47                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.43                      |                         |
| 33 61 13 00-0322 LF 8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 230.21                    | 83.94                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 2.09                      |                         |
| 33 61 13 00-0323 LF 10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 287.51                    | 99.89                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 2.76                      |                         |
| 33 61 13 00-0324 LF 12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 356.13                    | 122.92                  |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 3.44                      |                         |
| <b>33 61 13 00-0325 Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small>   |                           |                         |
| <small>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</small>  |                           |                         |
| 33 61 13 00-0326 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 54.43                     | 19.60                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.50                      |                         |
| 33 61 13 00-0327 LF 1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 59.26                     | 21.16                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.55                      |                         |
| 33 61 13 00-0328 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 64.70                     | 22.47                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.62                      |                         |
| 33 61 13 00-0329 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 68.87                     | 23.74                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.67                      |                         |
| 33 61 13 00-0330 LF 2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 72.56                     | 25.19                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.70                      |                         |
| 33 61 13 00-0331 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 84.52                     | 31.15                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.76                      |                         |
| 33 61 13 00-0332 LF 3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 97.84                     | 38.01                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 0.82                      |                         |
| 33 61 13 00-0333 LF 4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 124.02                    | 48.42                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 1.03                      |                         |

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0334 LF 5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 154.70                    | 59.29                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 1.32                      |                         |
| 33 61 13 00-0335 LF 6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 180.54                    | 69.47                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 1.53                      |                         |
| 33 61 13 00-0336 LF 8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 237.02                    | 83.94                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 2.22                      |                         |
| 33 61 13 00-0337 LF 10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 296.49                    | 99.89                   |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 2.93                      |                         |
| 33 61 13 00-0338 LF 12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 367.34                    | 122.92                  |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.66                      |                         |
| <b>33 61 13 00-0339 Preinsulated Copper Fittings (33 61 13 00-0052)</b>   |                           |                         |
| <b>33 61 13 00-0340 Elbows (33 61 13 00-0339)</b>   |                           |                         |
| <b>33 61 13 00-0341 Elbows (33 61 13 00-0340)</b>   |                           |                         |
| Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0342 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 358.15                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.66                      |                         |
| 33 61 13 00-0343 EA 1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 373.30                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.77                      |                         |
| 33 61 13 00-0344 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 430.71                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.43                      |                         |
| 33 61 13 00-0345 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 490.80                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.92                      |                         |
| 33 61 13 00-0346 EA 2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 600.53                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.17                      |                         |
| 33 61 13 00-0347 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 747.90                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.41                      |                         |
| 33 61 13 00-0348 EA 3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 870.54                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.40                      |                         |
| 33 61 13 00-0349 EA 4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,016.04                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.63                      |                         |
| 33 61 13 00-0350 EA 5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,180.44                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 11.10                     |                         |
| 33 61 13 00-0351 EA 6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,287.02                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 12.61                     |                         |
| 33 61 13 00-0352 EA 8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,787.91                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 18.23                     |                         |
| 33 61 13 00-0353 EA 10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 2,392.97                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.30                     |                         |
| 33 61 13 00-0354 EA 12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 3,016.29                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 30.83                     |                         |
| <b>33 61 13 00-0355 Elbows (33 61 13 00-0340)</b>   |                           |                         |
| Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0356 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 375.62                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.01                      |                         |
| 33 61 13 00-0357 EA 1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 391.18                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.13                      |                         |
| 33 61 13 00-0358 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 451.06                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.83                      |                         |
| 33 61 13 00-0359 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 513.00                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.36                      |                         |
| 33 61 13 00-0360 EA 2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 623.66                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.63                      |                         |
| 33 61 13 00-0361 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 771.95                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.89                      |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0362 EA 3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 898.29                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.95                      |                         |
| 33 61 13 00-0363 EA 4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,048.42                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.28                      |                         |
| 33 61 13 00-0364 EA 5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,222.07                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 11.93                     |                         |
| 33 61 13 00-0365 EA 6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,334.30                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 13.55                     |                         |
| 33 61 13 00-0366 EA 8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 1,856.25                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 19.59                     |                         |
| 33 61 13 00-0367 EA 10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 2,480.32                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 25.04                     |                         |
| 33 61 13 00-0368 EA 12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 3,131.91                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 33.14                     |                         |
| <b>33 61 13 00-0369 Elbows</b> <small>(33 61 13 00-0340)</small>  |                           |                         |
| <i>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>   |                           |                         |
| 33 61 13 00-0370 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 393.09                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.36                      |                         |
| 33 61 13 00-0371 EA 1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 409.06                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.48                      |                         |
| 33 61 13 00-0372 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 471.41                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.24                      |                         |
| 33 61 13 00-0373 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 535.20                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.81                      |                         |
| 33 61 13 00-0374 EA 2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 646.78                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.09                      |                         |
| 33 61 13 00-0375 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 795.99                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.38                      |                         |
| 33 61 13 00-0376 EA 3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 926.04                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.51                      |                         |
| 33 61 13 00-0377 EA 4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,080.79                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.93                      |                         |
| 33 61 13 00-0378 EA 5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,263.69                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 12.76                     |                         |
| 33 61 13 00-0379 EA 6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,381.89                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 14.50                     |                         |
| 33 61 13 00-0380 EA 8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,924.41                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 20.96                     |                         |
| 33 61 13 00-0381 EA 10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 2,567.17                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 26.79                     |                         |
| 33 61 13 00-0382 EA 12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 3,247.89                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 35.46                     |                         |
| <b>33 61 13 00-0383 Elbows</b> <small>(33 61 13 00-0340)</small>  |                           |                         |
| <i>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>   |                           |                         |
| 33 61 13 00-0384 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 410.56                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.71                      |                         |
| 33 61 13 00-0385 EA 1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 426.94                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.84                      |                         |
| 33 61 13 00-0386 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 491.76                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.65                      |                         |
| 33 61 13 00-0387 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 557.40                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.25                      |                         |
| 33 61 13 00-0388 EA 2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 669.91                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.55                      |                         |

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0389 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 820.04                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.86                      |                         |
| 33 61 13 00-0390 EA 3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 953.78                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.06                      |                         |
| 33 61 13 00-0391 EA 4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,113.16                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 10.58                     |                         |
| 33 61 13 00-0392 EA 5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,305.31                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 13.60                     |                         |
| 33 61 13 00-0393 EA 6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,429.17                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 15.44                     |                         |
| 33 61 13 00-0394 EA 8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,992.75                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.33                     |                         |
| 33 61 13 00-0395 EA 10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 2,654.53                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 28.54                     |                         |
| 33 61 13 00-0396 EA 12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 3,363.51                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 37.77                     |                         |
| <b>33 61 13 00-0397 Tees</b> <small>(33 61 13 00-0399)</small>  |                           |                         |
| <b>33 61 13 00-0398 Tees</b> <small>(33 61 13 00-0397)</small>  |                           |                         |
| Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0399 EA 3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 533.66                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.92                      |                         |
| 33 61 13 00-0400 EA 1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 556.18                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.08                      |                         |
| 33 61 13 00-0401 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 641.79                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.06                      |                         |
| 33 61 13 00-0402 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 731.52                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.79                      |                         |
| 33 61 13 00-0403 EA 2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 895.62                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.16                      |                         |
| 33 61 13 00-0404 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 1,116.31                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.52                      |                         |
| 33 61 13 00-0405 EA 3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,300.31                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 10.99                     |                         |
| 33 61 13 00-0406 EA 4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,517.64                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 12.82                     |                         |
| 33 61 13 00-0407 EA 5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,765.73                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 16.48                     |                         |
| 33 61 13 00-0408 EA 6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,921.86                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 18.72                     |                         |
| 33 61 13 00-0409 EA 8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 2,666.36                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 27.06                     |                         |
| 33 61 13 00-0410 EA 10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 3,574.04                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 34.59                     |                         |
| 33 61 13 00-0411 EA 12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 4,501.30                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 45.79                     |                         |
| <b>33 61 13 00-0412 Tees</b> <small>(33 61 13 00-0397)</small>  |                           |                         |
| Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0413 EA 3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 559.60                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.44                      |                         |
| 33 61 13 00-0414 EA 1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 582.73                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.61                      |                         |
| 33 61 13 00-0415 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 672.01                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.66                      |                         |
| 33 61 13 00-0416 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 764.48                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.45                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 61 13 00-0417 EA 2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 929.96                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 9.84                      |                         |
| 33 61 13 00-0418 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 1,152.03                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 10.24                     |                         |
| 33 61 13 00-0419 EA 3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 1,341.52                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 11.81                     |                         |
| 33 61 13 00-0420 EA 4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 1,565.72                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 13.78                     |                         |
| 33 61 13 00-0421 EA 5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 1,827.54                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 17.72                     |                         |
| 33 61 13 00-0422 EA 6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 1,992.06                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 20.13                     |                         |
| 33 61 13 00-0423 EA 8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 2,767.85                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 29.09                     |                         |
| 33 61 13 00-0424 EA 10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 3,703.77                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 37.19                     |                         |
| 33 61 13 00-0425 EA 12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....         | 4,673.00                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 49.22                     |                         |
| <b>33 61 13 00-0426 Tees</b> <small>(33 61 13 00-0397)</small>   |                           |                         |
| Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                           |                         |
| 33 61 13 00-0427 EA 3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....   | 585.55                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 7.96                      |                         |
| 33 61 13 00-0428 EA 1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 609.29                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 8.14                      |                         |
| 33 61 13 00-0429 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... | 702.22                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 9.27                      |                         |
| 33 61 13 00-0430 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... | 797.45                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 10.11                     |                         |
| 33 61 13 00-0431 EA 2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 964.30                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 10.53                     |                         |
| 33 61 13 00-0432 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... | 1,187.74                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 10.95                     |                         |
| 33 61 13 00-0433 EA 3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 1,382.73                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 12.64                     |                         |
| 33 61 13 00-0434 EA 4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 1,613.79                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 14.74                     |                         |
| 33 61 13 00-0435 EA 5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 1,889.35                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 18.96                     |                         |
| 33 61 13 00-0436 EA 6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 2,062.75                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 21.53                     |                         |
| 33 61 13 00-0437 EA 8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 2,868.09                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 31.12                     |                         |
| 33 61 13 00-0438 EA 10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....    | 3,830.67                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 39.78                     |                         |
| 33 61 13 00-0439 EA 12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....    | 4,847.97                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 52.65                     |                         |
| <b>33 61 13 00-0440 Tees</b> <small>(33 61 13 00-0397)</small>   |                           |                         |
| Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                           |                         |
| 33 61 13 00-0441 EA 3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....        | 611.49                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 8.48                      |                         |
| 33 61 13 00-0442 EA 1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 635.85                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 8.68                      |                         |
| 33 61 13 00-0443 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....     | 732.44                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>  | 9.87                      |                         |

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0444 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 830.41                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 10.77                     |                         |
| 33 61 13 00-0445 EA 2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....           | 998.64                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 11.22                     |                         |
| 33 61 13 00-0446 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 1,223.45                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 11.67                     |                         |
| 33 61 13 00-0447 EA 3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....           | 1,423.93                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 13.46                     |                         |
| 33 61 13 00-0448 EA 4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....           | 1,661.87                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 15.70                     |                         |
| 33 61 13 00-0449 EA 5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....           | 1,951.16                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 20.19                     |                         |
| 33 61 13 00-0450 EA 6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....           | 2,132.95                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 22.93                     |                         |
| 33 61 13 00-0451 EA 8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....           | 2,969.58                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 33.15                     |                         |
| 33 61 13 00-0452 EA 10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 3,960.39                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 42.38                     |                         |
| 33 61 13 00-0453 EA 12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....          | 5,019.66                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 56.09                     |                         |
| <b>33 61 13 00-0454 Reducers</b> (33 61 13 00-0339)   |                           |                         |
| <b>33 61 13 00-0455 Reducers</b> (33 61 13 00-0454)   |                           |                         |
| Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0456 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....   | 306.05                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.87                      |                         |
| 33 61 13 00-0457 EA 1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 319.25                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 3.96                      |                         |
| 33 61 13 00-0458 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 368.65                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.50                      |                         |
| 33 61 13 00-0459 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 420.91                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.91                      |                         |
| 33 61 13 00-0460 EA 2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 518.77                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.12                      |                         |
| 33 61 13 00-0461 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... | 660.27                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.32                      |                         |
| 33 61 13 00-0462 EA 3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 761.62                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.14                      |                         |
| 33 61 13 00-0463 EA 4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 883.96                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.17                      |                         |
| 33 61 13 00-0464 EA 5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,023.78                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 9.21                      |                         |
| 33 61 13 00-0465 EA 6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,114.41                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 10.46                     |                         |
| 33 61 13 00-0466 EA 8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 1,545.44                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 15.13                     |                         |
| 33 61 13 00-0467 EA 10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 2,072.76                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 19.34                     |                         |
| 33 61 13 00-0468 EA 12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....    | 2,604.49                  |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 25.59                     |                         |
| <b>33 61 13 00-0469 Reducers</b> (33 61 13 00-0454)   |                           |                         |
| Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0470 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....     | 320.55                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.16                      |                         |
| 33 61 13 00-0471 EA 1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....       | 334.09                    |                         |
| <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.25                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 61 13 00-0472 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 385.54<br>4.84            |                         |
| 33 61 13 00-0473 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 439.34<br>5.28            |                         |
| 33 61 13 00-0474 EA 2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>         | 537.96<br>5.50            |                         |
| 33 61 13 00-0475 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 680.24<br>5.72            |                         |
| 33 61 13 00-0476 EA 3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>         | 784.65<br>6.60            |                         |
| 33 61 13 00-0477 EA 4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>         | 910.83<br>7.70            |                         |
| 33 61 13 00-0478 EA 5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>         | 1,058.33<br>9.90          |                         |
| 33 61 13 00-0479 EA 6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>         | 1,153.65<br>11.25         |                         |
| 33 61 13 00-0480 EA 8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>         | 1,602.17<br>16.26         |                         |
| 33 61 13 00-0481 EA 10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>        | 2,145.27<br>20.79         |                         |
| 33 61 13 00-0482 EA 12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>        | 2,700.46<br>27.51         |                         |
| <b>33 61 13 00-0483 Reducers</b> <small>(33 61 13 00-0454)</small><br>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                           |                         |
| 33 61 13 00-0484 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 335.06<br>4.45            |                         |
| 33 61 13 00-0485 EA 1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 348.94<br>4.55            |                         |
| 33 61 13 00-0486 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i> | 402.43<br>5.18            |                         |
| 33 61 13 00-0487 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i> | 457.76<br>5.65            |                         |
| 33 61 13 00-0488 EA 2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 557.15<br>5.89            |                         |
| 33 61 13 00-0489 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i> | 700.20<br>6.12            |                         |
| 33 61 13 00-0490 EA 3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 807.68<br>7.06            |                         |
| 33 61 13 00-0491 EA 4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 937.70<br>8.24            |                         |
| 33 61 13 00-0492 EA 5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 1,092.88<br>10.59         |                         |
| 33 61 13 00-0493 EA 6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 1,193.14<br>12.03         |                         |
| 33 61 13 00-0494 EA 8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>     | 1,658.44<br>17.40         |                         |
| 33 61 13 00-0495 EA 10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>    | 2,217.37<br>22.24         |                         |
| 33 61 13 00-0496 EA 12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>    | 2,796.72<br>29.43         |                         |
| <b>33 61 13 00-0497 Reducers</b> <small>(33 61 13 00-0454)</small><br>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                           |                         |
| 33 61 13 00-0498 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass<br>Reinforced Polyester (FRP) Jacket .....<br><i>For High Density Polyethylene (HDPE) Jacket, Add</i>       | 349.56<br>4.74            |                         |



**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 33 61 13 00-0499 | EA  | 1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 363.78                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 4.85                      |                         |
| 33 61 13 00-0500 | EA  | 1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                   | 419.32                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 5.52                      |                         |
| 33 61 13 00-0501 | EA  | 1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                   | 476.19                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.02                      |                         |
| 33 61 13 00-0502 | EA  | 2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 576.35                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.27                      |                         |
| 33 61 13 00-0503 | EA  | 2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                   | 720.16                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 6.52                      |                         |
| 33 61 13 00-0504 | EA  | 3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 830.71                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 7.52                      |                         |
| 33 61 13 00-0505 | EA  | 4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 964.57                    |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 8.78                      |                         |
| 33 61 13 00-0506 | EA  | 5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 1,127.43                  |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 11.29                     |                         |
| 33 61 13 00-0507 | EA  | 6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 1,232.38                  |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 12.82                     |                         |
| 33 61 13 00-0508 | EA  | 8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                       | 1,715.17                  |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 18.53                     |                         |
| 33 61 13 00-0509 | EA  | 10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                      | 2,289.88                  |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 23.69                     |                         |
| 33 61 13 00-0510 | EA  | 12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....                                      | 2,892.69                  |                         |
|                  |     | <i>For High Density Polyethylene (HDPE) Jacket, Add</i>   | 31.35                     |                         |
| 33 61 13 00-0511 |     | <b>Preinsulated Ductile Iron Carrier Pipe</b> <small>(33 61 13 00-0502)</small><br>Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill. |                           |                         |
| 33 61 13 00-0512 |     | <b>Ductile Iron Carrier Pipe</b> <small>(33 61 13 00-0511)</small><br>Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.      |                           |                         |
| 33 61 13 00-0513 | LF  | 4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....  | 192.65                    | 62.55                   |
| 33 61 13 00-0514 | LF  | 6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....  | 281.96                    | 89.83                   |
| 33 61 13 00-0515 | LF  | 8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....  | 380.76                    | 108.53                  |
| 33 61 13 00-0516 | LF  | 10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 483.74                    | 129.16                  |
| 33 61 13 00-0517 | LF  | 12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 600.53                    | 158.96                  |
| 33 61 13 00-0518 |     | <b>Ductile Iron Carrier Pipe</b> <small>(33 61 13 00-0511)</small><br>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.      |                           |                         |
| 33 61 13 00-0519 | LF  | 4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....  | 205.06                    | 62.59                   |
| 33 61 13 00-0520 | LF  | 6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....  | 300.39                    | 89.82                   |
| 33 61 13 00-0521 | LF  | 8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....  | 407.59                    | 108.53                  |
| 33 61 13 00-0522 | LF  | 10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 519.13                    | 129.16                  |
| 33 61 13 00-0523 | LF  | 12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 644.69                    | 158.96                  |
| 33 61 13 00-0524 | LF  | 14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 705.45                    | 169.61                  |
| 33 61 13 00-0525 | LF  | 16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 794.95                    | 181.72                  |
| 33 61 13 00-0526 | LF  | 18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 894.80                    | 193.84                  |
| 33 61 13 00-0527 | LF  | 20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 984.84                    | 205.96                  |
| 33 61 13 00-0528 | LF  | 24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....   | 1,166.31                  | 224.13                  |
| 33 61 13 00-0529 |     | <b>Preinsulated Ductile Iron Fittings</b> <small>(33 61 13 00-0502)</small>   |                           |                         |
| 33 61 13 00-0530 |     | <b>Elbows</b> <small>(33 61 13 00-0529)</small>   |                           |                         |
| 33 61 13 00-0531 |     | <b>Elbows</b> <small>(33 61 13 00-0530)</small><br>Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.                         |                           |                         |



|              | MINOR             | CSI        | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--------------|-------------------|------------|-----|---|------------------------|----------------------|
|              | 33 61             | 13 00-0532 | EA  | 4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                        | 1,770.60               |                      |
|              | 33 61             | 13 00-0533 | EA  | 6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                        | 2,359.36               |                      |
|              | 33 61             | 13 00-0534 | EA  | 8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                        | 3,327.21               |                      |
|              | 33 61             | 13 00-0535 | EA  | 10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 4,376.80               |                      |
|              | 33 61             | 13 00-0536 | EA  | 12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 5,619.13               |                      |
| <b>33 61</b> | <b>13 00-0537</b> |            |     | <b>Elbows</b> <small>(33 61 13 00-0530)</small><br>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.   |                        |                      |
|              | 33 61             | 13 00-0538 | EA  | 4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                        | 1,923.88               |                      |
|              | 33 61             | 13 00-0539 | EA  | 6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                        | 2,583.19               |                      |
|              | 33 61             | 13 00-0540 | EA  | 8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                        | 3,650.81               |                      |
|              | 33 61             | 13 00-0541 | EA  | 10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 4,790.41               |                      |
|              | 33 61             | 13 00-0542 | EA  | 12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 6,166.56               |                      |
|              | 33 61             | 13 00-0543 | EA  | 14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 7,504.36               |                      |
|              | 33 61             | 13 00-0544 | EA  | 16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 8,878.65               |                      |
|              | 33 61             | 13 00-0545 | EA  | 18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 11,084.16              |                      |
|              | 33 61             | 13 00-0546 | EA  | 20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 14,055.94              |                      |
|              | 33 61             | 13 00-0547 | EA  | 24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                       | 18,175.53              |                      |
| <b>33 61</b> | <b>13 00-0548</b> |            |     | <b>Tees</b> <small>(33 61 13 00-0529)</small>   |                        |                      |
| <b>33 61</b> | <b>13 00-0549</b> |            |     | <b>Tees</b> <small>(33 61 13 00-0548)</small><br>Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.     |                        |                      |
|              | 33 61             | 13 00-0550 | EA  | 4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                          | 2,639.42               |                      |
|              | 33 61             | 13 00-0551 | EA  | 6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                          | 3,516.00               |                      |
|              | 33 61             | 13 00-0552 | EA  | 8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                          | 4,954.17               |                      |
|              | 33 61             | 13 00-0553 | EA  | 10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 6,523.22               |                      |
|              | 33 61             | 13 00-0554 | EA  | 12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 8,369.83               |                      |
| <b>33 61</b> | <b>13 00-0555</b> |            |     | <b>Tees</b> <small>(33 61 13 00-0548)</small><br>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.     |                        |                      |
|              | 33 61             | 13 00-0556 | EA  | 4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                          | 2,867.04               |                      |
|              | 33 61             | 13 00-0557 | EA  | 6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                          | 3,848.40               |                      |
|              | 33 61             | 13 00-0558 | EA  | 8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                          | 5,434.71               |                      |
|              | 33 61             | 13 00-0559 | EA  | 10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 7,137.44               |                      |
|              | 33 61             | 13 00-0560 | EA  | 12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 9,182.77               |                      |
|              | 33 61             | 13 00-0561 | EA  | 14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 10,977.20              |                      |
|              | 33 61             | 13 00-0562 | EA  | 16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 12,991.51              |                      |
|              | 33 61             | 13 00-0563 | EA  | 18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 16,220.79              |                      |
|              | 33 61             | 13 00-0564 | EA  | 20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 20,579.65              |                      |
|              | 33 61             | 13 00-0565 | EA  | 24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                         | 26,604.21              |                      |
| <b>33 61</b> | <b>13 00-0566</b> |            |     | <b>Reducers</b> <small>(33 61 13 00-0529)</small>   |                        |                      |
| <b>33 61</b> | <b>13 00-0567</b> |            |     | <b>Reducers</b> <small>(33 61 13 00-0566)</small><br>Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing. |                        |                      |
|              | 33 61             | 13 00-0568 | EA  | 4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                      | 1,516.35               |                      |
|              | 33 61             | 13 00-0569 | EA  | 6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                      | 2,011.37               |                      |

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 33 61 13 00-0570 EA 8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                | 2,832.39                  |                         |
| 33 61 13 00-0571 EA 10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 3,732.22                  |                         |
| 33 61 13 00-0572 EA 12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 4,779.99                  |                         |
| <b>33 61 13 00-0573 Reducers</b> <small>(33 61 13 00-0566)</small>  |                           |                         |
| Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.  |                           |                         |
| 33 61 13 00-0574 EA 4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                | 1,643.57                  |                         |
| 33 61 13 00-0575 EA 6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                | 2,197.15                  |                         |
| 33 61 13 00-0576 EA 8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....                | 3,100.96                  |                         |
| 33 61 13 00-0577 EA 10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 4,075.52                  |                         |
| 33 61 13 00-0578 EA 12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 5,234.36                  |                         |
| 33 61 13 00-0579 EA 14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 6,250.03                  |                         |
| 33 61 13 00-0580 EA 16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 7,387.59                  |                         |
| 33 61 13 00-0581 EA 18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 9,168.22                  |                         |
| 33 61 13 00-0582 EA 20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 11,702.87                 |                         |
| 33 61 13 00-0583 EA 24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....               | 15,166.84                 |                         |
| <b>33 61 13 00-0584 Tempered Water Piping Pre-Insulated</b> <small>(33 61 13 00-0052)</small>   |                           |                         |
| <b>33 61 13 00-0585 Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation</b> <small>(33 61 13 00-0584)</small>                          |                           |                         |
| 33 61 13 00-0586 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....   | 176.50                    | 27.65                   |
| 33 61 13 00-0587 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....   | 233.64                    | 33.69                   |
| 33 61 13 00-0588 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....   | 323.46                    | 35.32                   |
| 33 61 13 00-0589 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....  | 446.25                    | 44.16                   |
| 33 61 13 00-0590 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....  | 572.55                    | 54.45                   |
| <b>33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation</b> <small>(33 61 13 00-0584)</small> |                           |                         |
| 33 61 13 00-0592 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....                          | 87.45                     | 33.69                   |
| 33 61 13 00-0593 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....                          | 105.05                    | 33.69                   |
| 33 61 13 00-0594 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....                          | 121.77                    | 33.69                   |
| 33 61 13 00-0595 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....                         | 145.57                    | 39.83                   |
| 33 61 13 00-0596 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....                         | 176.14                    | 50.55                   |
| <b>33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation</b> <small>(33 61 13 00-0584)</small>                                       |                           |                         |
| 33 61 13 00-0598 LF 4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....  | 87.45                     | 33.69                   |
| 33 61 13 00-0599 LF 6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....  | 105.04                    | 33.69                   |
| 33 61 13 00-0600 LF 8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....  | 120.23                    | 33.69                   |
| 33 61 13 00-0601 LF 10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....   | 145.56                    | 39.83                   |
| 33 61 13 00-0602 LF 12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....   | 176.14                    | 50.55                   |
| <b>33 70 Electrical Utilities</b> <small>(33)</small>   |                           |                         |
| <b>33 71 Electrical Utility Transmission and Distribution</b> <small>(33 70)</small>  |                           |                         |
| <b>33 71 19 Electrical Underground Ducts, Ductbanks and Manholes</b> <small>(33 71)</small>   |                           |                         |
| Note: Excludes excavation and backfill.   |                           |                         |
| <b>33 71 19 13 Electrical Manholes and Handholes</b> <small>(33 71 19)</small>  |                           |                         |
| 33 71 19 13-0001 Electrical Handholes And Pull Boxes <small>(33 71 19 13)</small>   |                           |                         |
| 33 71 19 13-0002 Electrical Pull Boxes <small>(33 71 19 13-0001)</small>  |                           |                         |
| See CSI section 33 05 63 00-0427 for handholes.   |                           |                         |
| 33 71 19 13-0003 EA 24" x 36" x 24", Electric Pull Boxes, Precast Concrete .....  | 2,358.50                  | 525.91                  |
| 33 71 19 13-0004 EA 24" x 36" x 36", Electric Pull Boxes, Precast Concrete .....  | 2,846.04                  | 582.92                  |
| 33 71 19 13-0005 EA 30" x 48" x 36", Electric Pull Boxes, Precast Concrete .....  | 3,313.59                  | 633.62                  |
| 33 71 19 13-0006 EA 36" x 72" x 24", Electric Pull Boxes, Precast Concrete .....  | 5,254.46                  | 760.34                  |



|  |  |   |              |           |
|--|--|---|--------------|-----------|
|  |  | <b>Utilities</b>  | <b>33</b>    |           |
|  |  | <b>Electrical Utilities</b>                             | <b>33 70</b> | <b>CS</b> |
|  |  | <b>Electrical Utility Transmission and Distribution</b> | <b>33 71</b> |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 33 71 19 13-0007 EA 36" x 60" x 36", Electric Pull Boxes, Precast Concrete .....   | 5,627.83                  | 760.34                  |
| 33 71 19 13-0008 EA 48" x 48" x 36", Electric Pull Boxes, Precast Concrete .....   | 6,064.49                  | 792.02                  |
| 33 71 19 13-0009 EA 48" x 60" x 48", Electric Pull Boxes, Precast Concrete .....   | 6,985.37                  | 887.07                  |
| <b>33 71 19 13-0010 Electrical Pull Boxes (CALTRANS) (33 71 19 13-0001)</b>  |                           |                         |
| 33 71 19 13-0011 EA Body, CALTRANS 3-1/2 Precast Concrete Pull Box.....  | 133.00                    |                         |
| 33 71 19 13-0012 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....  | 54.41                     |                         |
| 33 71 19 13-0013 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....   | 83.00                     |                         |
| 33 71 19 13-0014 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....  | 178.64                    |                         |
| 33 71 19 13-0015 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....   | 277.79                    |                         |
| For Galvanized Steel Cover, Add  | 48.00                     |                         |
| 33 71 19 13-0016 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box.....   | 67.75                     |                         |
| 33 71 19 13-0017 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box.....   | 67.75                     |                         |
| 33 71 19 13-0018 EA Body, CALTRANS 5 Precast Concrete Pull Box.....  | 189.82                    |                         |
| 33 71 19 13-0019 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....  | 73.18                     |                         |
| 33 71 19 13-0020 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....  | 101.78                    |                         |
| 33 71 19 13-0021 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box .....  | 369.32                    |                         |
| For Galvanized Steel Cover, Add  | 88.01                     |                         |
| 33 71 19 13-0022 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box.....   | 97.08                     |                         |
| 33 71 19 13-0023 EA Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....   | 90.63                     |                         |
| 33 71 19 13-0024 EA Body, CALTRANS 6 Precast Concrete Pull Box.....  | 208.60                    |                         |
| 33 71 19 13-0025 EA Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....  | 98.41                     |                         |
| 33 71 19 13-0026 EA Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....  | 127.01                    |                         |
| 33 71 19 13-0027 EA Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....   | 507.78                    |                         |
| For Galvanized Steel Cover, Add  | 123.21                    |                         |
| 33 71 19 13-0028 EA 12" Extension, CALTRANS 6 Precast Concrete Pull Box.....   | 115.86                    |                         |
| 33 71 19 13-0029 EA Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....   | 108.82                    |                         |
| 33 71 19 13-0030 EA 6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....   | 151.06                    |                         |
| 33 71 19 13-0031 EA Body, CALTRANS 3-1/2-T Precast Concrete Pull Box .....   | 304.90                    |                         |
| 33 71 19 13-0032 EA Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box.....  | 444.42                    |                         |
| 33 71 19 13-0033 EA 12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box .....  | 139.33                    |                         |
| 33 71 19 13-0034 EA Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box .....  | 127.59                    |                         |
| 33 71 19 13-0035 EA Body, CALTRANS 5-T Precast Concrete Pull Box .....   | 396.35                    |                         |
| 33 71 19 13-0036 EA Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box .....   | 643.90                    |                         |
| 33 71 19 13-0037 EA 12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....   | 167.49                    |                         |
| 33 71 19 13-0038 EA Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box .....  | 162.80                    |                         |
| 33 71 19 13-0039 EA Body, CALTRANS 6-T Precast Concrete Pull Box .....   | 567.67                    |                         |
| 33 71 19 13-0040 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box .....   | 902.05                    |                         |
| 33 71 19 13-0041 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....   | 284.83                    |                         |
| 33 71 19 13-0042 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box .....  | 221.47                    |                         |
| <b>33 71 19 13-0043 Electrical Property Line Boxes (33 71 19 13)</b>   |                           |                         |
| 33 71 19 13-0044 EA 3'-6" x 2'-9" x 2' Deep Property Line Box .....  | 4,956.40                  | 427.70                  |
| 33 71 19 13-0045 EA 4'-6" x 3'-6" x 4' Deep Property Line Box .....  | 5,825.64                  | 443.53                  |
| 33 71 19 13-0046 EA 6' x 4' x 5' Deep Property Line Box .....  | 6,391.17                  | 538.58                  |
| 33 71 19 13-0047 EA 11'-6" x 4'-6" x 6' Deep Property Line Box .....   | 9,786.13                  | 792.02                  |
| <b>33 71 19 13-0048 Manhole Accessories (33 71 19 13)</b>  |                           |                         |
| 33 71 19 13-0049 EA 6" Precast Grade Ring Riser Casting.....   | 653.45                    | 184.58                  |
| 33 71 19 13-0050 EA 12" Precast Grade Ring Riser Casting.....  | 707.66                    | 199.97                  |
| 33 71 19 13-0051 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D) .....   | 2,580.13                  | 307.65                  |
| 33 71 19 13-0052 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....   | 3,363.16                  | 384.55                  |
| 33 71 19 13-0053 EA Cast Iron Adjusting Ring (NEENAH #R-1979).....   | 1,106.15                  | 205.35                  |
| 33 71 19 13-0054 EA Cast Iron Frame And Cover (NEENAH #R-1640-B) .....   | 1,399.75                  | 230.73                  |
| <b>33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)</b>   |                           |                         |
| <b>33 71 19 23-0001 Underground Ductbank (33 71 19 23)</b>   |                           |                         |
| Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. |                           |                         |
| <b>33 71 19 23-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (33 71 19 23-0001)</b>   |                           |                         |
| Note: Includes appropriate spacers and fittings.   |                           |                         |
| 33 71 19 23-0003 LF 2 At 2", Rigid Galvanized Conduit Duct Bank .....  | 45.62                     |                         |
| 33 71 19 23-0004 LF 4 At 2", Rigid Galvanized Conduit Duct Bank .....  | 91.28                     |                         |
| 33 71 19 23-0005 LF 2 At 3", Rigid Galvanized Conduit Duct Bank .....  | 94.27                     |                         |
| 33 71 19 23-0006 LF 4 At 3", Rigid Galvanized Conduit Duct Bank .....  | 189.07                    |                         |
| 33 71 19 23-0007 LF 2 At 4", Rigid Galvanized Conduit Duct Bank .....  | 138.81                    |                         |
| 33 71 19 23-0008 LF 4 At 4", Rigid Galvanized Conduit Duct Bank .....  | 279.02                    |                         |
| 33 71 19 23-0009 LF 6 At 4", Rigid Galvanized Conduit Duct Bank .....  | 419.25                    |                         |
| 33 71 19 23-0010 LF 2 At 5", Rigid Galvanized Conduit Duct Bank .....  | 261.93                    |                         |
| 33 71 19 23-0011 LF 4 At 5", Rigid Galvanized Conduit Duct Bank .....  | 522.43                    |                         |
| 33 71 19 23-0012 LF 6 At 5", Rigid Galvanized Conduit Duct Bank .....  | 803.34                    |                         |

**33 Utilities****33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |   |          |
|------------------|----|---|----------|
| 33 71 19 23-0013 | LF | 2 At 6", Rigid Galvanized Conduit Duct Bank ..... | 372.09   |
| 33 71 19 23-0014 | LF | 4 At 6", Rigid Galvanized Conduit Duct Bank ..... | 746.91   |
| 33 71 19 23-0015 | LF | 6 At 6", Rigid Galvanized Conduit Duct Bank ..... | 1,111.89 |

**33 71 19 23-0016 Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System** (33 71 19 23-0001)

Note: Includes appropriate spacers and fittings.

|                  |    |   |        |
|------------------|----|---|--------|
| 33 71 19 23-0017 | LF | 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 11.03  |
| 33 71 19 23-0018 | LF | 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 24.02  |
| 33 71 19 23-0019 | LF | 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 46.32  |
| 33 71 19 23-0020 | LF | 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 14.70  |
| 33 71 19 23-0021 | LF | 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 29.32  |
| 33 71 19 23-0022 | LF | 4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 59.48  |
| 33 71 19 23-0023 | LF | 1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 20.03  |
| 33 71 19 23-0024 | LF | 2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 40.12  |
| 33 71 19 23-0025 | LF | 4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 80.33  |
| 33 71 19 23-0026 | LF | 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 120.46 |
| 33 71 19 23-0027 | LF | 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 25.96  |
| 33 71 19 23-0028 | LF | 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 51.85  |
| 33 71 19 23-0029 | LF | 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 100.85 |
| 33 71 19 23-0030 | LF | 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 144.23 |
| 33 71 19 23-0031 | LF | 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 44.62  |
| 33 71 19 23-0032 | LF | 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 70.85  |
| 33 71 19 23-0033 | LF | 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 141.97 |
| 33 71 19 23-0034 | LF | 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank ..... | 227.00 |

**33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System** (33 71 19 23-0001)

Note: Includes appropriate spacers and fittings.

|                  |    |   |        |
|------------------|----|---|--------|
| 33 71 19 23-0036 | LF | 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 12.29  |
| 33 71 19 23-0037 | LF | 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 26.60  |
| 33 71 19 23-0038 | LF | 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 51.18  |
| 33 71 19 23-0039 | LF | 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 15.40  |
| 33 71 19 23-0040 | LF | 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 30.76  |
| 33 71 19 23-0041 | LF | 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 61.25  |
| 33 71 19 23-0042 | LF | 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 20.74  |
| 33 71 19 23-0043 | LF | 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 41.56  |
| 33 71 19 23-0044 | LF | 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 83.20  |
| 33 71 19 23-0045 | LF | 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 124.76 |
| 33 71 19 23-0046 | LF | 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 27.04  |
| 33 71 19 23-0047 | LF | 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 54.01  |
| 33 71 19 23-0048 | LF | 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 105.17 |
| 33 71 19 23-0049 | LF | 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 150.72 |
| 33 71 19 23-0050 | LF | 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 46.11  |
| 33 71 19 23-0051 | LF | 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 73.95  |
| 33 71 19 23-0052 | LF | 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 148.18 |
| 33 71 19 23-0053 | LF | 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank ..... | 236.31 |

**33 71 19 23-0054 Male Or Female Adapters** (33 71 19 23-0001)

|                  |    |                  |        |
|------------------|----|------------------|--------|
| 33 71 19 23-0055 | EA | 2" Adapter ..... | 56.88  |
| 33 71 19 23-0056 | EA | 3" Adapter ..... | 87.25  |
| 33 71 19 23-0057 | EA | 4" Adapter ..... | 114.63 |
| 33 71 19 23-0058 | EA | 5" Adapter ..... | 191.70 |
| 33 71 19 23-0059 | EA | 6" Adapter ..... | 233.40 |

**33 71 19 23-0060 Underground Electrical Concrete Markers** (33 71 19 23)

|                  |    |   |        |
|------------------|----|---|--------|
| 33 71 19 23-0061 | EA | 36" x 6" x 6", Underground Electric Concrete Marker ..... | 462.83 |
|------------------|----|---|--------|

**END OF SECTION 33**



| MINOR | CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------|---------------------|------------------------|----------------------|
|-------|---------------------|------------------------|----------------------|

## 40 Process Interconnections

### 40 05 Common Work Results For Process Interconnections <sup>(40)</sup>

#### 40 05 19 Ductile Iron Process Pipe <sup>(40 05)</sup>

|                  |   |          |        |
|------------------|---|----------|--------|
| 40 05 19 00-0001 | <b>Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping</b> <sup>(40 05 19)</sup><br><small>Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4062 for bolts, 40 05 19 00-4077 for gaskets.</small> |          |        |
| 40 05 19 00-0002 | <b>Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>   |          |        |
| 40 05 19 00-0003 | <b>4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <sup>(40 05 19 00-0002)</sup>  |          |        |
| 40 05 19 00-0004 | EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 940.54   | 281.61 |
|                  | For Class 52 Rating, Deduct   | -56.52   |        |
|                  | For Class 54 Rating, Add  | 82.20    |        |
|                  | For Class 55 Rating, Add  | 124.83   |        |
|                  | For Class 56 Rating, Add  | 166.95   |        |
| 40 05 19 00-0005 | EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,002.98 | 286.53 |
|                  | For Class 52 Rating, Deduct   | -62.57   |        |
|                  | For Class 54 Rating, Add  | 90.54    |        |
|                  | For Class 55 Rating, Add  | 137.27   |        |
|                  | For Class 56 Rating, Add  | 183.44   |        |
| 40 05 19 00-0006 | EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,065.42 | 291.46 |
|                  | For Class 52 Rating, Deduct   | -68.62   |        |
|                  | For Class 54 Rating, Add  | 98.87    |        |
|                  | For Class 55 Rating, Add  | 149.71   |        |
|                  | For Class 56 Rating, Add  | 199.92   |        |
| 40 05 19 00-0007 | EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,127.85 | 296.38 |
|                  | For Class 52 Rating, Deduct   | -74.67   |        |
|                  | For Class 54 Rating, Add  | 107.21   |        |
|                  | For Class 55 Rating, Add  | 162.15   |        |
|                  | For Class 56 Rating, Add  | 216.41   |        |
| 40 05 19 00-0008 | EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,190.30 | 301.30 |
|                  | For Class 52 Rating, Deduct   | -80.72   |        |
|                  | For Class 54 Rating, Add  | 115.55   |        |
|                  | For Class 55 Rating, Add  | 174.59   |        |
|                  | For Class 56 Rating, Add  | 232.90   |        |
| 40 05 19 00-0009 | EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,252.74 | 306.23 |
|                  | For Class 52 Rating, Deduct   | -86.76   |        |
|                  | For Class 54 Rating, Add  | 123.88   |        |
|                  | For Class 55 Rating, Add  | 187.03   |        |
|                  | For Class 56 Rating, Add  | 249.39   |        |
| 40 05 19 00-0010 | EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,315.17 | 311.14 |
|                  | For Class 52 Rating, Deduct   | -92.81   |        |
|                  | For Class 54 Rating, Add  | 132.22   |        |
|                  | For Class 55 Rating, Add  | 199.47   |        |
|                  | For Class 56 Rating, Add  | 265.87   |        |
| 40 05 19 00-0011 | EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,377.62 | 316.07 |
|                  | For Class 52 Rating, Deduct   | -98.86   |        |
|                  | For Class 54 Rating, Add  | 140.55   |        |
|                  | For Class 55 Rating, Add  | 211.91   |        |
|                  | For Class 56 Rating, Add  | 282.36   |        |
| 40 05 19 00-0012 | EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,440.05 | 321.00 |
|                  | For Class 52 Rating, Deduct   | -104.91  |        |
|                  | For Class 54 Rating, Add  | 148.89   |        |
|                  | For Class 55 Rating, Add  | 224.35   |        |
|                  | For Class 56 Rating, Add  | 298.85   |        |
| 40 05 19 00-0013 | EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,502.50 | 325.92 |
|                  | For Class 52 Rating, Deduct   | -110.95  |        |
|                  | For Class 54 Rating, Add  | 157.23   |        |
|                  | For Class 55 Rating, Add  | 236.79   |        |
|                  | For Class 56 Rating, Add  | 315.34   |        |
| 40 05 19 00-0014 | EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,564.93 | 330.84 |
|                  | For Class 52 Rating, Deduct   | -117.00  |        |
|                  | For Class 54 Rating, Add  | 165.56   |        |
|                  | For Class 55 Rating, Add  | 249.23   |        |
|                  | For Class 56 Rating, Add  | 331.83   |        |
| 40 05 19 00-0015 | EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,627.37 | 335.76 |
|                  | For Class 52 Rating, Deduct   | -123.05  |        |
|                  | For Class 54 Rating, Add  | 173.90   |        |
|                  | For Class 55 Rating, Add  | 261.67   |        |
|                  | For Class 56 Rating, Add  | 348.31   |        |
| 40 05 19 00-0016 | EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,689.83 | 340.69 |
|                  | For Class 52 Rating, Deduct   | -129.10  |        |
|                  | For Class 54 Rating, Add  | 182.24   |        |
|                  | For Class 55 Rating, Add  | 274.11   |        |
|                  | For Class 56 Rating, Add  | 364.80   |        |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0017 EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,752.26                  | 345.61                  |
| For Class 52 Rating, Deduct  | -135.15                   |                         |
| For Class 54 Rating, Add   | 190.58                    |                         |
| For Class 55 Rating, Add   | 286.55                    |                         |
| For Class 56 Rating, Add   | 381.29                    |                         |
| 40 05 19 00-0018 EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,814.70                  | 350.53                  |
| For Class 52 Rating, Deduct  | -141.19                   |                         |
| For Class 54 Rating, Add   | 198.91                    |                         |
| For Class 55 Rating, Add   | 298.99                    |                         |
| For Class 56 Rating, Add   | 397.78                    |                         |
| 40 05 19 00-0019 EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,877.14                  | 355.46                  |
| For Class 52 Rating, Deduct  | -147.24                   |                         |
| For Class 54 Rating, Add   | 207.25                    |                         |
| For Class 55 Rating, Add   | 311.43                    |                         |
| For Class 56 Rating, Add   | 414.27                    |                         |
| 40 05 19 00-0020 EA 4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,939.58                  | 360.38                  |
| For Class 52 Rating, Deduct  | -153.29                   |                         |
| For Class 54 Rating, Add   | 215.58                    |                         |
| For Class 55 Rating, Add   | 323.87                    |                         |
| For Class 56 Rating, Add   | 430.75                    |                         |
| 40 05 19 00-0021 EA 4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,002.02                  | 365.30                  |
| For Class 52 Rating, Deduct  | -159.34                   |                         |
| For Class 54 Rating, Add   | 223.92                    |                         |
| For Class 55 Rating, Add   | 336.31                    |                         |
| For Class 56 Rating, Add   | 447.24                    |                         |
| 40 05 19 00-0022 EA 4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,064.46                  | 370.22                  |
| For Class 52 Rating, Deduct  | -165.39                   |                         |
| For Class 54 Rating, Add   | 232.26                    |                         |
| For Class 55 Rating, Add   | 348.75                    |                         |
| For Class 56 Rating, Add   | 463.73                    |                         |
| 40 05 19 00-0023 EA 4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,126.90                  | 375.15                  |
| For Class 52 Rating, Deduct  | -171.43                   |                         |
| For Class 54 Rating, Add   | 240.59                    |                         |
| For Class 55 Rating, Add   | 361.19                    |                         |
| For Class 56 Rating, Add   | 480.22                    |                         |
| 40 05 19 00-0024 EA 4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,189.34                  | 380.08                  |
| For Class 52 Rating, Deduct  | -177.48                   |                         |
| For Class 54 Rating, Add   | 248.93                    |                         |
| For Class 55 Rating, Add   | 373.62                    |                         |
| For Class 56 Rating, Add   | 496.70                    |                         |
| 40 05 19 00-0025 EA 4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,251.78                  | 384.99                  |
| For Class 52 Rating, Deduct  | -183.53                   |                         |
| For Class 54 Rating, Add   | 257.27                    |                         |
| For Class 55 Rating, Add   | 386.06                    |                         |
| For Class 56 Rating, Add   | 513.19                    |                         |
| 40 05 19 00-0026 EA 4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,314.21                  | 389.92                  |
| For Class 52 Rating, Deduct  | -189.58                   |                         |
| For Class 54 Rating, Add   | 265.60                    |                         |
| For Class 55 Rating, Add   | 398.50                    |                         |
| For Class 56 Rating, Add   | 529.68                    |                         |
| 40 05 19 00-0027 EA 4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,376.66                  | 394.84                  |
| For Class 52 Rating, Deduct  | -195.63                   |                         |
| For Class 54 Rating, Add   | 273.94                    |                         |
| For Class 55 Rating, Add   | 410.94                    |                         |
| For Class 56 Rating, Add   | 546.17                    |                         |
| 40 05 19 00-0028 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,439.09                  | 399.77                  |
| For Class 52 Rating, Deduct  | -201.67                   |                         |
| For Class 54 Rating, Add   | 282.28                    |                         |
| For Class 55 Rating, Add   | 423.38                    |                         |
| For Class 56 Rating, Add   | 562.66                    |                         |
| 40 05 19 00-0029 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,501.54                  | 404.69                  |
| For Class 52 Rating, Deduct  | -207.72                   |                         |
| For Class 54 Rating, Add   | 290.61                    |                         |
| For Class 55 Rating, Add   | 435.82                    |                         |
| For Class 56 Rating, Add   | 579.14                    |                         |
| 40 05 19 00-0030 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,563.97                  | 409.61                  |
| For Class 52 Rating, Deduct  | -213.77                   |                         |
| For Class 54 Rating, Add   | 298.95                    |                         |
| For Class 55 Rating, Add   | 448.26                    |                         |
| For Class 56 Rating, Add   | 595.63                    |                         |
| 40 05 19 00-0031 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,626.41                  | 414.54                  |
| For Class 52 Rating, Deduct  | -219.82                   |                         |
| For Class 54 Rating, Add   | 307.29                    |                         |
| For Class 55 Rating, Add   | 460.70                    |                         |
| For Class 56 Rating, Add   | 612.12                    |                         |
| 40 05 19 00-0032 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,688.87                  | 419.45                  |
| For Class 52 Rating, Deduct  | -225.87                   |                         |
| For Class 54 Rating, Add   | 315.62                    |                         |
| For Class 55 Rating, Add   | 473.14                    |                         |
| For Class 56 Rating, Add   | 628.61                    |                         |
| 40 05 19 00-0033 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,751.30                  | 424.38                  |
| For Class 52 Rating, Deduct  | -231.91                   |                         |
| For Class 54 Rating, Add   | 323.96                    |                         |
| For Class 55 Rating, Add   | 485.58                    |                         |
| For Class 56 Rating, Add   | 645.10                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 2,813.74                  | 429.31                  |
| <i>For Class 52 Rating, Deduct</i>  | -237.96                   |                         |
| <i>For Class 54 Rating, Add</i>   | 332.30                    |                         |
| <i>For Class 55 Rating, Add</i>   | 498.02                    |                         |
| <i>For Class 56 Rating, Add</i>   | 661.58                    |                         |
| 40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 2,876.18                  | 434.23                  |
| <i>For Class 52 Rating, Deduct</i>  | -244.01                   |                         |
| <i>For Class 54 Rating, Add</i>   | 340.63                    |                         |
| <i>For Class 55 Rating, Add</i>   | 510.46                    |                         |
| <i>For Class 56 Rating, Add</i>   | 678.07                    |                         |
| 40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 2,938.62                  | 439.15                  |
| <i>For Class 52 Rating, Deduct</i>  | -250.06                   |                         |
| <i>For Class 54 Rating, Add</i>   | 348.97                    |                         |
| <i>For Class 55 Rating, Add</i>   | 522.90                    |                         |
| <i>For Class 56 Rating, Add</i>   | 694.56                    |                         |
| 40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 3,001.06                  | 444.07                  |
| <i>For Class 52 Rating, Deduct</i>  | -256.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 357.31                    |                         |
| <i>For Class 55 Rating, Add</i>   | 535.34                    |                         |
| <i>For Class 56 Rating, Add</i>   | 711.05                    |                         |
| 40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 3,063.50                  | 449.00                  |
| <i>For Class 52 Rating, Deduct</i>  | -262.15                   |                         |
| <i>For Class 54 Rating, Add</i>   | 365.64                    |                         |
| <i>For Class 55 Rating, Add</i>   | 547.78                    |                         |
| <i>For Class 56 Rating, Add</i>   | 727.53                    |                         |
| 40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 3,125.94                  | 453.93                  |
| <i>For Class 52 Rating, Deduct</i>  | -268.20                   |                         |
| <i>For Class 54 Rating, Add</i>   | 373.98                    |                         |
| <i>For Class 55 Rating, Add</i>   | 560.22                    |                         |
| <i>For Class 56 Rating, Add</i>   | 744.02                    |                         |
| 40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 3,188.38                  | 458.84                  |
| <i>For Class 52 Rating, Deduct</i>  | -274.25                   |                         |
| <i>For Class 54 Rating, Add</i>   | 382.32                    |                         |
| <i>For Class 55 Rating, Add</i>   | 572.66                    |                         |
| <i>For Class 56 Rating, Add</i>   | 760.51                    |                         |
| 40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 3,250.82                  | 463.77                  |
| <i>For Class 52 Rating, Deduct</i>  | -280.30                   |                         |
| <i>For Class 54 Rating, Add</i>   | 390.65                    |                         |
| <i>For Class 55 Rating, Add</i>   | 585.10                    |                         |
| <i>For Class 56 Rating, Add</i>   | 777.00                    |                         |
| 40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                | 3,313.26                  | 468.69                  |
| <i>For Class 52 Rating, Deduct</i>  | -286.34                   |                         |
| <i>For Class 54 Rating, Add</i>   | 398.99                    |                         |
| <i>For Class 55 Rating, Add</i>   | 597.54                    |                         |
| <i>For Class 56 Rating, Add</i>   | 793.49                    |                         |
| <b>40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small> |                           |                         |
| 40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,190.50                  | 354.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -71.88                    |                         |
| <i>For Class 54 Rating, Add</i>   | 104.46                    |                         |
| <i>For Class 55 Rating, Add</i>   | 158.60                    |                         |
| <i>For Class 56 Rating, Add</i>   | 212.09                    |                         |
| 40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,265.63                  | 359.39                  |
| <i>For Class 52 Rating, Deduct</i>  | -79.32                    |                         |
| <i>For Class 54 Rating, Add</i>   | 114.70                    |                         |
| <i>For Class 55 Rating, Add</i>   | 173.87                    |                         |
| <i>For Class 56 Rating, Add</i>   | 232.32                    |                         |
| 40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,340.76                  | 364.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -86.76                    |                         |
| <i>For Class 54 Rating, Add</i>   | 124.94                    |                         |
| <i>For Class 55 Rating, Add</i>   | 189.14                    |                         |
| <i>For Class 56 Rating, Add</i>   | 252.56                    |                         |
| 40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,415.88                  | 369.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -94.21                    |                         |
| <i>For Class 54 Rating, Add</i>   | 135.18                    |                         |
| <i>For Class 55 Rating, Add</i>   | 204.41                    |                         |
| <i>For Class 56 Rating, Add</i>   | 272.79                    |                         |
| 40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,491.02                  | 374.16                  |
| <i>For Class 52 Rating, Deduct</i>  | -101.65                   |                         |
| <i>For Class 54 Rating, Add</i>   | 145.42                    |                         |
| <i>For Class 55 Rating, Add</i>   | 219.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 293.02                    |                         |
| 40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,566.15                  | 379.09                  |
| <i>For Class 52 Rating, Deduct</i>  | -109.09                   |                         |
| <i>For Class 54 Rating, Add</i>   | 155.66                    |                         |
| <i>For Class 55 Rating, Add</i>   | 234.95                    |                         |
| <i>For Class 56 Rating, Add</i>   | 313.25                    |                         |
| 40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                 | 1,641.26                  | 384.01                  |
| <i>For Class 52 Rating, Deduct</i>  | -116.54                   |                         |
| <i>For Class 54 Rating, Add</i>   | 165.90                    |                         |
| <i>For Class 55 Rating, Add</i>   | 250.22                    |                         |
| <i>For Class 56 Rating, Add</i>   | 333.48                    |                         |



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0051 | EA  |     | 6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,716.40               | 388.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -123.98                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 176.14                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 265.49                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 353.71                 |                      |
| 40 05 19 00-0052 | EA  |     | 6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,791.52               | 393.85               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -131.42                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 186.38                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 280.76                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 373.94                 |                      |
| 40 05 19 00-0053 | EA  |     | 6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,866.66               | 398.78               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -138.87                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 196.62                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 296.03                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 394.17                 |                      |
| 40 05 19 00-0054 | EA  |     | 6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,941.78               | 403.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -146.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 206.86                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 311.29                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 414.40                 |                      |
| 40 05 19 00-0055 | EA  |     | 6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,016.91               | 408.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -153.76                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 217.10                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 326.56                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 434.63                 |                      |
| 40 05 19 00-0056 | EA  |     | 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,092.05               | 413.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -161.20                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 227.34                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 341.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 454.87                 |                      |
| 40 05 19 00-0057 | EA  |     | 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,167.16               | 418.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -168.64                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 237.58                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 357.10                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 475.09                 |                      |
| 40 05 19 00-0058 | EA  |     | 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,242.29               | 423.40               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -176.09                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 247.82                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 372.37                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 495.32                 |                      |
| 40 05 19 00-0059 | EA  |     | 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,317.42               | 428.32               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -183.53                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 258.06                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 387.64                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 515.56                 |                      |
| 40 05 19 00-0060 | EA  |     | 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,392.55               | 433.24               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -190.97                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 268.30                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 402.91                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 535.79                 |                      |
| 40 05 19 00-0061 | EA  |     | 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,467.68               | 438.17               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -198.42                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 278.54                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 418.18                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 556.02                 |                      |
| 40 05 19 00-0062 | EA  |     | 6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,542.81               | 443.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -205.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 288.78                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 433.45                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 576.25                 |                      |
| 40 05 19 00-0063 | EA  |     | 6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,617.92               | 448.01               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -213.30                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 299.01                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 448.71                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 596.48                 |                      |
| 40 05 19 00-0064 | EA  |     | 6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,693.06               | 452.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -220.75                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 309.25                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 463.98                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 616.71                 |                      |
| 40 05 19 00-0065 | EA  |     | 6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,768.19               | 457.86               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -228.19                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 319.49                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 479.25                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 636.94                 |                      |
| 40 05 19 00-0066 | EA  |     | 6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,843.31               | 462.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -235.63                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 329.73                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 494.52                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 657.17                 |                      |
| 40 05 19 00-0067 | EA  |     | 6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,918.45               | 467.70               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -243.08                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 339.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 509.79                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 677.40                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,993.57                  | 472.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -250.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 350.21                    |                         |
| <i>For Class 55 Rating, Add</i>   | 525.06                    |                         |
| <i>For Class 56 Rating, Add</i>   | 697.63                    |                         |
| 40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,068.71                  | 477.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -257.97                   |                         |
| <i>For Class 54 Rating, Add</i>   | 360.45                    |                         |
| <i>For Class 55 Rating, Add</i>   | 540.33                    |                         |
| <i>For Class 56 Rating, Add</i>   | 717.86                    |                         |
| 40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,143.82                  | 482.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -265.41                   |                         |
| <i>For Class 54 Rating, Add</i>   | 370.69                    |                         |
| <i>For Class 55 Rating, Add</i>   | 555.60                    |                         |
| <i>For Class 56 Rating, Add</i>   | 738.09                    |                         |
| 40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,218.95                  | 487.40                  |
| <i>For Class 52 Rating, Deduct</i>  | -272.85                   |                         |
| <i>For Class 54 Rating, Add</i>   | 380.93                    |                         |
| <i>For Class 55 Rating, Add</i>   | 570.87                    |                         |
| <i>For Class 56 Rating, Add</i>   | 758.32                    |                         |
| 40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,294.09                  | 492.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -280.30                   |                         |
| <i>For Class 54 Rating, Add</i>   | 391.17                    |                         |
| <i>For Class 55 Rating, Add</i>   | 586.14                    |                         |
| <i>For Class 56 Rating, Add</i>   | 778.56                    |                         |
| 40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,369.21                  | 497.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -287.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 401.41                    |                         |
| <i>For Class 55 Rating, Add</i>   | 601.41                    |                         |
| <i>For Class 56 Rating, Add</i>   | 798.79                    |                         |
| 40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,444.34                  | 502.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -295.18                   |                         |
| <i>For Class 54 Rating, Add</i>   | 411.65                    |                         |
| <i>For Class 55 Rating, Add</i>   | 616.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 819.02                    |                         |
| 40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,519.47                  | 507.09                  |
| <i>For Class 52 Rating, Deduct</i>  | -302.63                   |                         |
| <i>For Class 54 Rating, Add</i>   | 421.89                    |                         |
| <i>For Class 55 Rating, Add</i>   | 631.95                    |                         |
| <i>For Class 56 Rating, Add</i>   | 839.25                    |                         |
| 40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,594.60                  | 512.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -310.07                   |                         |
| <i>For Class 54 Rating, Add</i>   | 432.13                    |                         |
| <i>For Class 55 Rating, Add</i>   | 647.22                    |                         |
| <i>For Class 56 Rating, Add</i>   | 859.48                    |                         |
| 40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,669.72                  | 516.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -317.51                   |                         |
| <i>For Class 54 Rating, Add</i>   | 442.37                    |                         |
| <i>For Class 55 Rating, Add</i>   | 662.48                    |                         |
| <i>For Class 56 Rating, Add</i>   | 879.71                    |                         |
| 40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,744.85                  | 521.86                  |
| <i>For Class 52 Rating, Deduct</i>  | -324.96                   |                         |
| <i>For Class 54 Rating, Add</i>   | 452.61                    |                         |
| <i>For Class 55 Rating, Add</i>   | 677.75                    |                         |
| <i>For Class 56 Rating, Add</i>   | 899.94                    |                         |
| 40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,819.98                  | 526.79                  |
| <i>For Class 52 Rating, Deduct</i>  | -332.40                   |                         |
| <i>For Class 54 Rating, Add</i>   | 462.85                    |                         |
| <i>For Class 55 Rating, Add</i>   | 693.02                    |                         |
| <i>For Class 56 Rating, Add</i>   | 920.17                    |                         |
| 40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,895.11                  | 531.71                  |
| <i>For Class 52 Rating, Deduct</i>  | -339.84                   |                         |
| <i>For Class 54 Rating, Add</i>   | 473.09                    |                         |
| <i>For Class 55 Rating, Add</i>   | 708.29                    |                         |
| <i>For Class 56 Rating, Add</i>   | 940.40                    |                         |
| 40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,970.24                  | 536.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -347.29                   |                         |
| <i>For Class 54 Rating, Add</i>   | 483.33                    |                         |
| <i>For Class 55 Rating, Add</i>   | 723.56                    |                         |
| <i>For Class 56 Rating, Add</i>   | 960.63                    |                         |
| 40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 4,045.36                  | 541.55                  |
| <i>For Class 52 Rating, Deduct</i>  | -354.73                   |                         |
| <i>For Class 54 Rating, Add</i>   | 493.57                    |                         |
| <i>For Class 55 Rating, Add</i>   | 738.83                    |                         |
| <i>For Class 56 Rating, Add</i>   | 980.86                    |                         |
| <b>40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b> |                           |                         |
| 40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 1,648.43                  | 452.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -105.84                   |                         |
| <i>For Class 54 Rating, Add</i>   | 152.56                    |                         |
| <i>For Class 55 Rating, Add</i>   | 231.03                    |                         |
| <i>For Class 56 Rating, Add</i>   | 308.54                    |                         |

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0085 | EA  |     | 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,748.94               | 457.86               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -116.07                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 166.61                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 251.96                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 336.26                 |                      |
| 40 05 19 00-0086 | EA  |     | 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,849.43               | 462.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -126.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 180.65                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 272.89                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 363.98                 |                      |
| 40 05 19 00-0087 | EA  |     | 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,949.94               | 467.70               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -136.54                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 194.70                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 293.82                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 391.69                 |                      |
| 40 05 19 00-0088 | EA  |     | 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,050.44               | 472.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -146.78                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 208.74                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 314.74                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 419.41                 |                      |
| 40 05 19 00-0089 | EA  |     | 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,150.95               | 477.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -157.01                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 222.79                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 335.67                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 447.13                 |                      |
| 40 05 19 00-0090 | EA  |     | 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,251.45               | 482.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -167.25                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 236.84                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 356.60                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 474.84                 |                      |
| 40 05 19 00-0091 | EA  |     | 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,351.95               | 487.40               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -177.48                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 250.88                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 377.53                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 502.56                 |                      |
| 40 05 19 00-0092 | EA  |     | 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,452.46               | 492.32               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -187.72                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 264.93                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 398.45                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 530.27                 |                      |
| 40 05 19 00-0093 | EA  |     | 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,552.96               | 497.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -197.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 278.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 419.38                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 557.99                 |                      |
| 40 05 19 00-0094 | EA  |     | 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,653.46               | 502.17               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -208.19                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 293.02                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 440.31                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 585.71                 |                      |
| 40 05 19 00-0095 | EA  |     | 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,753.97               | 507.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -218.42                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 307.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 461.24                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 613.43                 |                      |
| 40 05 19 00-0096 | EA  |     | 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,854.47               | 512.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -228.66                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 321.11                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 482.17                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 641.14                 |                      |
| 40 05 19 00-0097 | EA  |     | 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,954.98               | 516.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -238.89                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 335.16                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 503.10                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 668.86                 |                      |
| 40 05 19 00-0098 | EA  |     | 8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,055.48               | 521.86               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -249.13                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 349.21                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 524.02                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 696.58                 |                      |
| 40 05 19 00-0099 | EA  |     | 8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,155.98               | 526.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -259.36                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 363.25                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 544.95                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 724.29                 |                      |
| 40 05 19 00-0100 | EA  |     | 8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,256.49               | 531.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -269.60                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 377.30                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 565.88                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 752.01                 |                      |
| 40 05 19 00-0101 | EA  |     | 8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,356.99               | 536.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -279.83                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 391.34                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 586.81                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 779.72                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,457.49                  | 541.55                  |
| For Class 52 Rating, Deduct  | -290.07                   |                         |
| For Class 54 Rating, Add   | 405.39                    |                         |
| For Class 55 Rating, Add   | 607.73                    |                         |
| For Class 56 Rating, Add   | 807.44                    |                         |
| 40 05 19 00-0103 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,558.00                  | 546.48                  |
| For Class 52 Rating, Deduct  | -300.30                   |                         |
| For Class 54 Rating, Add   | 419.44                    |                         |
| For Class 55 Rating, Add   | 628.66                    |                         |
| For Class 56 Rating, Add   | 835.16                    |                         |
| 40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,658.49                  | 551.40                  |
| For Class 52 Rating, Deduct  | -310.53                   |                         |
| For Class 54 Rating, Add   | 433.48                    |                         |
| For Class 55 Rating, Add   | 649.59                    |                         |
| For Class 56 Rating, Add   | 862.87                    |                         |
| 40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,759.01                  | 556.32                  |
| For Class 52 Rating, Deduct  | -320.77                   |                         |
| For Class 54 Rating, Add   | 447.53                    |                         |
| For Class 55 Rating, Add   | 670.52                    |                         |
| For Class 56 Rating, Add   | 890.59                    |                         |
| 40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,859.51                  | 561.25                  |
| For Class 52 Rating, Deduct  | -331.00                   |                         |
| For Class 54 Rating, Add   | 461.57                    |                         |
| For Class 55 Rating, Add   | 691.45                    |                         |
| For Class 56 Rating, Add   | 918.31                    |                         |
| 40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,960.01                  | 566.17                  |
| For Class 52 Rating, Deduct  | -341.24                   |                         |
| For Class 54 Rating, Add   | 475.62                    |                         |
| For Class 55 Rating, Add   | 712.37                    |                         |
| For Class 56 Rating, Add   | 946.02                    |                         |
| 40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,060.52                  | 571.10                  |
| For Class 52 Rating, Deduct  | -351.47                   |                         |
| For Class 54 Rating, Add   | 489.67                    |                         |
| For Class 55 Rating, Add   | 733.30                    |                         |
| For Class 56 Rating, Add   | 973.74                    |                         |
| 40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,161.02                  | 576.01                  |
| For Class 52 Rating, Deduct  | -361.71                   |                         |
| For Class 54 Rating, Add   | 503.71                    |                         |
| For Class 55 Rating, Add   | 754.23                    |                         |
| For Class 56 Rating, Add   | 1,001.46                  |                         |
| 40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,261.52                  | 580.94                  |
| For Class 52 Rating, Deduct  | -371.94                   |                         |
| For Class 54 Rating, Add   | 517.76                    |                         |
| For Class 55 Rating, Add   | 775.16                    |                         |
| For Class 56 Rating, Add   | 1,029.17                  |                         |
| 40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,362.02                  | 585.87                  |
| For Class 52 Rating, Deduct  | -382.18                   |                         |
| For Class 54 Rating, Add   | 531.80                    |                         |
| For Class 55 Rating, Add   | 796.08                    |                         |
| For Class 56 Rating, Add   | 1,056.89                  |                         |
| 40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,462.53                  | 590.78                  |
| For Class 52 Rating, Deduct  | -392.41                   |                         |
| For Class 54 Rating, Add   | 545.85                    |                         |
| For Class 55 Rating, Add   | 817.01                    |                         |
| For Class 56 Rating, Add   | 1,084.61                  |                         |
| 40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,563.03                  | 595.71                  |
| For Class 52 Rating, Deduct  | -402.65                   |                         |
| For Class 54 Rating, Add   | 559.90                    |                         |
| For Class 55 Rating, Add   | 837.94                    |                         |
| For Class 56 Rating, Add   | 1,112.32                  |                         |
| 40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,663.54                  | 600.63                  |
| For Class 52 Rating, Deduct  | -412.88                   |                         |
| For Class 54 Rating, Add   | 573.94                    |                         |
| For Class 55 Rating, Add   | 858.87                    |                         |
| For Class 56 Rating, Add   | 1,140.04                  |                         |
| 40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,764.04                  | 605.56                  |
| For Class 52 Rating, Deduct  | -423.12                   |                         |
| For Class 54 Rating, Add   | 587.99                    |                         |
| For Class 55 Rating, Add   | 879.80                    |                         |
| For Class 56 Rating, Add   | 1,167.76                  |                         |
| 40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,864.54                  | 610.48                  |
| For Class 52 Rating, Deduct  | -433.35                   |                         |
| For Class 54 Rating, Add   | 602.04                    |                         |
| For Class 55 Rating, Add   | 900.72                    |                         |
| For Class 56 Rating, Add   | 1,195.47                  |                         |
| 40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,965.05                  | 615.40                  |
| For Class 52 Rating, Deduct  | -443.59                   |                         |
| For Class 54 Rating, Add   | 616.08                    |                         |
| For Class 55 Rating, Add   | 921.65                    |                         |
| For Class 56 Rating, Add   | 1,223.19                  |                         |
| 40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,065.55                  | 620.33                  |
| For Class 52 Rating, Deduct  | -453.82                   |                         |
| For Class 54 Rating, Add   | 630.13                    |                         |
| For Class 55 Rating, Add   | 942.58                    |                         |
| For Class 56 Rating, Add   | 1,250.91                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0119        | EA  |     | 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,166.06               | 625.25               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -464.06                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 644.17                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 963.51                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 1,278.62               |                      |
| 40 05 19 00-0120        | EA  |     | 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,266.55               | 630.17               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -474.29                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 658.22                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 984.44                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 1,306.34               |                      |
| 40 05 19 00-0121        | EA  |     | 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,367.07               | 635.10               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -484.53                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 672.27                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 1,005.36               |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 1,334.06               |                      |
| 40 05 19 00-0122        | EA  |     | 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,467.57               | 640.02               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -494.76                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 686.31                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 1,026.29               |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 1,361.77               |                      |
| <b>40 05 19 00-0123</b> |     |     | <b>10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small> |                        |                      |
| 40 05 19 00-0124        | EA  |     | 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,070.40               | 551.40               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -135.84                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 195.27                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 295.44                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 394.39                 |                      |
| 40 05 19 00-0125        | EA  |     | 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,200.52               | 556.32               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -149.34                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 213.76                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 322.97                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 430.84                 |                      |
| 40 05 19 00-0126        | EA  |     | 10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,330.63               | 561.25               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -162.83                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 232.24                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 350.50                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 467.29                 |                      |
| 40 05 19 00-0127        | EA  |     | 10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,460.73               | 566.17               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -176.32                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 250.73                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 378.03                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 503.74                 |                      |
| 40 05 19 00-0128        | EA  |     | 10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,590.85               | 571.10               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -189.81                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 269.22                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 405.56                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 540.19                 |                      |
| 40 05 19 00-0129        | EA  |     | 10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,720.95               | 576.01               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -203.30                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 287.70                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 433.09                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 576.64                 |                      |
| 40 05 19 00-0130        | EA  |     | 10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,851.05               | 580.94               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -216.79                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 306.19                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 460.62                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 613.09                 |                      |
| 40 05 19 00-0131        | EA  |     | 10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,981.16               | 585.87               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -230.28                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 324.68                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 488.15                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 649.54                 |                      |
| 40 05 19 00-0132        | EA  |     | 10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,111.27               | 590.78               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -243.78                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 343.16                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 515.68                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 685.99                 |                      |
| 40 05 19 00-0133        | EA  |     | 10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,241.38               | 595.71               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -257.27                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 361.65                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 543.21                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 722.44                 |                      |
| 40 05 19 00-0134        | EA  |     | 10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,371.49               | 600.63               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -270.76                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 380.14                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 570.74                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 758.89                 |                      |
| 40 05 19 00-0135        | EA  |     | 10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,501.60               | 605.56               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>  | -284.25                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>   | 398.62                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>   | 598.27                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>   | 795.34                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,631.71                  | 610.48                  |
| <i>For Class 52 Rating, Deduct</i>  | -297.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 417.11                    |                         |
| <i>For Class 55 Rating, Add</i>   | 625.80                    |                         |
| <i>For Class 56 Rating, Add</i>   | 831.79                    |                         |
| 40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,761.82                  | 615.40                  |
| <i>For Class 52 Rating, Deduct</i>  | -311.23                   |                         |
| <i>For Class 54 Rating, Add</i>   | 435.60                    |                         |
| <i>For Class 55 Rating, Add</i>   | 653.33                    |                         |
| <i>For Class 56 Rating, Add</i>   | 868.24                    |                         |
| 40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,891.93                  | 620.33                  |
| <i>For Class 52 Rating, Deduct</i>  | -324.72                   |                         |
| <i>For Class 54 Rating, Add</i>   | 454.08                    |                         |
| <i>For Class 55 Rating, Add</i>   | 680.86                    |                         |
| <i>For Class 56 Rating, Add</i>   | 904.69                    |                         |
| 40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,022.04                  | 625.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -338.22                   |                         |
| <i>For Class 54 Rating, Add</i>   | 472.57                    |                         |
| <i>For Class 55 Rating, Add</i>   | 708.39                    |                         |
| <i>For Class 56 Rating, Add</i>   | 941.14                    |                         |
| 40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,152.14                  | 630.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -351.71                   |                         |
| <i>For Class 54 Rating, Add</i>   | 491.06                    |                         |
| <i>For Class 55 Rating, Add</i>   | 735.92                    |                         |
| <i>For Class 56 Rating, Add</i>   | 977.59                    |                         |
| 40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,282.25                  | 635.10                  |
| <i>For Class 52 Rating, Deduct</i>  | -365.20                   |                         |
| <i>For Class 54 Rating, Add</i>   | 509.54                    |                         |
| <i>For Class 55 Rating, Add</i>   | 763.45                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,014.04                  |                         |
| 40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,412.36                  | 640.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -378.69                   |                         |
| <i>For Class 54 Rating, Add</i>   | 528.03                    |                         |
| <i>For Class 55 Rating, Add</i>   | 790.98                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,050.49                  |                         |
| 40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,542.46                  | 644.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -392.18                   |                         |
| <i>For Class 54 Rating, Add</i>   | 546.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 818.51                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,086.94                  |                         |
| 40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,672.58                  | 649.86                  |
| <i>For Class 52 Rating, Deduct</i>  | -405.67                   |                         |
| <i>For Class 54 Rating, Add</i>   | 565.01                    |                         |
| <i>For Class 55 Rating, Add</i>   | 846.04                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,123.39                  |                         |
| 40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,802.68                  | 654.79                  |
| <i>For Class 52 Rating, Deduct</i>  | -419.16                   |                         |
| <i>For Class 54 Rating, Add</i>   | 583.49                    |                         |
| <i>For Class 55 Rating, Add</i>   | 873.57                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,159.84                  |                         |
| 40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,932.80                  | 659.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -432.66                   |                         |
| <i>For Class 54 Rating, Add</i>   | 601.98                    |                         |
| <i>For Class 55 Rating, Add</i>   | 901.10                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,196.29                  |                         |
| 40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,062.90                  | 664.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -446.15                   |                         |
| <i>For Class 54 Rating, Add</i>   | 620.47                    |                         |
| <i>For Class 55 Rating, Add</i>   | 928.63                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,232.74                  |                         |
| 40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,193.01                  | 669.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -459.64                   |                         |
| <i>For Class 54 Rating, Add</i>   | 638.95                    |                         |
| <i>For Class 55 Rating, Add</i>   | 956.16                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,269.19                  |                         |
| 40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,323.13                  | 674.48                  |
| <i>For Class 52 Rating, Deduct</i>  | -473.13                   |                         |
| <i>For Class 54 Rating, Add</i>   | 657.44                    |                         |
| <i>For Class 55 Rating, Add</i>   | 983.69                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,305.64                  |                         |
| 40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,453.23                  | 679.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -486.62                   |                         |
| <i>For Class 54 Rating, Add</i>   | 675.93                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,011.22                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,342.09                  |                         |
| 40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,583.34                  | 684.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -500.11                   |                         |
| <i>For Class 54 Rating, Add</i>   | 694.41                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,038.75                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,378.54                  |                         |
| 40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,713.45                  | 689.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -513.60                   |                         |
| <i>For Class 54 Rating, Add</i>   | 712.90                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,066.28                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,414.99                  |                         |

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0153 | EA  |     | 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 5,843.55               | 694.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -527.09                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 731.39                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,093.81               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,451.44               |                      |
| 40 05 19 00-0154 | EA  |     | 10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 5,973.66               | 699.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -540.59                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 749.87                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,121.34               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,487.89               |                      |
| 40 05 19 00-0155 | EA  |     | 10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,101.66               | 704.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -553.85                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 768.04                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,148.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,523.71               |                      |
| 40 05 19 00-0156 | EA  |     | 10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,233.87               | 708.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -567.57                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 786.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,176.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,560.79               |                      |
| 40 05 19 00-0157 | EA  |     | 10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,363.99               | 713.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -581.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 805.33                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,203.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,597.24               |                      |
| 40 05 19 00-0158 | EA  |     | 10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,494.10               | 718.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -594.55                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 823.82                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,231.46               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,633.69               |                      |
| 40 05 19 00-0159 | EA  |     | 10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,624.20               | 723.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -608.04                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 842.31                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,258.99               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,670.14               |                      |
| 40 05 19 00-0160 | EA  |     | 10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,754.32               | 728.64               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -621.54                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 860.80                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,286.52               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,706.59               |                      |
| 40 05 19 00-0161 | EA  |     | 10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 6,884.42               | 733.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -635.03                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 879.28                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,314.05               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,743.04               |                      |
| 40 05 19 00-0162 | EA  |     | 10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 7,014.54               | 738.48               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -648.52                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 897.77                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,341.58               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,779.49               |                      |
| <br>             |     |     |   |                        |                      |
| 40 05 19 00-0163 |     |     | <b>12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small> |                        |                      |
| 40 05 19 00-0164 | EA  |     | 12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,697.97               | 689.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -181.90                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 260.58                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 393.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 525.42                 |                      |
| 40 05 19 00-0165 | EA  |     | 12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,859.80               | 694.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -198.88                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 283.82                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 428.43                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 571.23                 |                      |
| 40 05 19 00-0166 | EA  |     | 12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,021.63               | 699.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -215.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 307.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 463.03                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 617.04                 |                      |
| 40 05 19 00-0167 | EA  |     | 12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,183.45               | 704.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -232.84                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 330.31                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 497.64                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 662.84                 |                      |
| 40 05 19 00-0168 | EA  |     | 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,345.27               | 708.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -249.82                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 353.56                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 532.24                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 708.65                 |                      |
| 40 05 19 00-0169 | EA  |     | 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,507.11               | 713.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -266.80                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 376.80                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 566.84                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 754.46                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,668.94                  | 718.79                  |
| <i>For Class 52 Rating, Deduct</i>  | -283.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 400.05                    |                         |
| <i>For Class 55 Rating, Add</i>   | 601.45                    |                         |
| <i>For Class 56 Rating, Add</i>   | 800.27                    |                         |
| 40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,830.76                  | 723.71                  |
| <i>For Class 52 Rating, Deduct</i>  | -300.77                   |                         |
| <i>For Class 54 Rating, Add</i>   | 423.29                    |                         |
| <i>For Class 55 Rating, Add</i>   | 636.05                    |                         |
| <i>For Class 56 Rating, Add</i>   | 846.07                    |                         |
| 40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,992.60                  | 728.64                  |
| <i>For Class 52 Rating, Deduct</i>  | -317.75                   |                         |
| <i>For Class 54 Rating, Add</i>   | 446.54                    |                         |
| <i>For Class 55 Rating, Add</i>   | 670.65                    |                         |
| <i>For Class 56 Rating, Add</i>   | 891.88                    |                         |
| 40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,154.42                  | 733.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -334.73                   |                         |
| <i>For Class 54 Rating, Add</i>   | 469.78                    |                         |
| <i>For Class 55 Rating, Add</i>   | 705.26                    |                         |
| <i>For Class 56 Rating, Add</i>   | 937.69                    |                         |
| 40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,316.26                  | 738.48                  |
| <i>For Class 52 Rating, Deduct</i>  | -351.71                   |                         |
| <i>For Class 54 Rating, Add</i>   | 493.03                    |                         |
| <i>For Class 55 Rating, Add</i>   | 739.86                    |                         |
| <i>For Class 56 Rating, Add</i>   | 983.50                    |                         |
| 40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,478.07                  | 743.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -368.69                   |                         |
| <i>For Class 54 Rating, Add</i>   | 516.27                    |                         |
| <i>For Class 55 Rating, Add</i>   | 774.46                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,029.30                  |                         |
| 40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,639.90                  | 748.33                  |
| <i>For Class 52 Rating, Deduct</i>  | -385.67                   |                         |
| <i>For Class 54 Rating, Add</i>   | 539.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 809.07                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,075.11                  |                         |
| 40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,801.74                  | 753.26                  |
| <i>For Class 52 Rating, Deduct</i>  | -402.65                   |                         |
| <i>For Class 54 Rating, Add</i>   | 562.76                    |                         |
| <i>For Class 55 Rating, Add</i>   | 843.67                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,120.92                  |                         |
| 40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,963.56                  | 758.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -419.63                   |                         |
| <i>For Class 54 Rating, Add</i>   | 586.01                    |                         |
| <i>For Class 55 Rating, Add</i>   | 878.27                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,166.72                  |                         |
| 40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,125.39                  | 763.10                  |
| <i>For Class 52 Rating, Deduct</i>  | -436.61                   |                         |
| <i>For Class 54 Rating, Add</i>   | 609.25                    |                         |
| <i>For Class 55 Rating, Add</i>   | 912.88                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,212.53                  |                         |
| 40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,287.22                  | 768.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -453.59                   |                         |
| <i>For Class 54 Rating, Add</i>   | 632.50                    |                         |
| <i>For Class 55 Rating, Add</i>   | 947.48                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,258.34                  |                         |
| 40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,449.05                  | 772.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -470.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 655.74                    |                         |
| <i>For Class 55 Rating, Add</i>   | 982.08                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,304.15                  |                         |
| 40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,610.88                  | 777.87                  |
| <i>For Class 52 Rating, Deduct</i>  | -487.55                   |                         |
| <i>For Class 54 Rating, Add</i>   | 678.99                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,016.69                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,349.95                  |                         |
| 40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,772.70                  | 782.79                  |
| <i>For Class 52 Rating, Deduct</i>  | -504.53                   |                         |
| <i>For Class 54 Rating, Add</i>   | 702.23                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,051.29                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,395.76                  |                         |
| 40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,934.53                  | 787.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -521.51                   |                         |
| <i>For Class 54 Rating, Add</i>   | 725.48                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,085.89                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,441.57                  |                         |
| 40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,096.36                  | 792.64                  |
| <i>For Class 52 Rating, Deduct</i>  | -538.49                   |                         |
| <i>For Class 54 Rating, Add</i>   | 748.72                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,120.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,487.37                  |                         |
| 40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,258.19                  | 797.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -555.47                   |                         |
| <i>For Class 54 Rating, Add</i>   | 771.97                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,155.10                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,533.18                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0187 | EA  | 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,420.01                  | 802.49                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -572.45                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 795.21                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,189.70                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,578.99                  |                         |
| 40 05 19 00-0188 | EA  | 12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,743.85                  | 807.41                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -589.44                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 818.46                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,224.31                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,624.80                  |                         |
| 40 05 19 00-0189 | EA  | 12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,743.67                  | 812.33                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -606.42                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 841.70                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,258.91                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,670.61                  |                         |
| 40 05 19 00-0190 | EA  | 12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,905.51                  | 817.26                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -623.40                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 864.95                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,293.51                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,716.41                  |                         |
| 40 05 19 00-0191 | EA  | 12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,067.33                  | 822.18                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -640.38                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 888.19                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,328.11                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,762.22                  |                         |
| 40 05 19 00-0192 | EA  | 12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,229.15                  | 827.10                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -657.36                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 911.43                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,362.72                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,808.03                  |                         |
| 40 05 19 00-0193 | EA  | 12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,390.99                  | 832.02                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -674.34                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 934.68                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,397.32                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,853.83                  |                         |
| 40 05 19 00-0194 | EA  | 12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,552.81                  | 836.95                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -691.32                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 957.92                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,431.92                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,899.64                  |                         |
| 40 05 19 00-0195 | EA  | 12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,714.64                  | 841.87                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -708.30                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 981.17                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,466.53                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,945.45                  |                         |
| 40 05 19 00-0196 | EA  | 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,876.47                  | 846.79                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -725.28                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,004.41                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,501.13                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,991.26                  |                         |
| 40 05 19 00-0197 | EA  | 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,038.30                  | 851.72                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -742.26                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,027.66                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,535.74                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,037.06                  |                         |
| 40 05 19 00-0198 | EA  | 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,200.12                  | 856.64                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -759.24                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,050.90                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,570.34                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,082.87                  |                         |
| 40 05 19 00-0199 | EA  | 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,361.95                  | 861.57                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -776.22                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,074.15                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,604.94                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,128.68                  |                         |
| 40 05 19 00-0200 | EA  | 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,523.78                  | 866.48                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -793.20                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,097.39                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,639.54                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,174.48                  |                         |
| 40 05 19 00-0201 | EA  | 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,685.61                  | 871.41                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -810.18                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,120.64                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,674.15                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,220.29                  |                         |
| 40 05 19 00-0202 | EA  | 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,847.44                  | 876.34                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -827.16                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,143.88                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,708.75                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,266.10                  |                         |

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,  
Ductile Iron Pipe (40 05 19 00-0002)



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,568.71                  | 827.10                  |
| <i>For Class 52 Rating, Deduct</i>   | -254.71                   |                         |
| <i>For Class 54 Rating, Add</i>  | 362.37                    |                         |
| <i>For Class 55 Rating, Add</i>  | 546.44                    |                         |
| <i>For Class 56 Rating, Add</i>  | 728.20                    |                         |
| 40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,764.38                  | 832.02                  |
| <i>For Class 52 Rating, Deduct</i>   | -275.41                   |                         |
| <i>For Class 54 Rating, Add</i>  | 390.69                    |                         |
| <i>For Class 55 Rating, Add</i>  | 588.59                    |                         |
| <i>For Class 56 Rating, Add</i>  | 783.98                    |                         |
| 40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 3,960.04                  | 836.95                  |
| <i>For Class 52 Rating, Deduct</i>   | -296.11                   |                         |
| <i>For Class 54 Rating, Add</i>  | 419.01                    |                         |
| <i>For Class 55 Rating, Add</i>  | 630.74                    |                         |
| <i>For Class 56 Rating, Add</i>  | 839.77                    |                         |
| 40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,155.70                  | 841.87                  |
| <i>For Class 52 Rating, Deduct</i>   | -316.82                   |                         |
| <i>For Class 54 Rating, Add</i>  | 447.33                    |                         |
| <i>For Class 55 Rating, Add</i>  | 672.88                    |                         |
| <i>For Class 56 Rating, Add</i>  | 895.56                    |                         |
| 40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,351.36                  | 846.79                  |
| <i>For Class 52 Rating, Deduct</i>   | -337.52                   |                         |
| <i>For Class 54 Rating, Add</i>  | 475.65                    |                         |
| <i>For Class 55 Rating, Add</i>  | 715.03                    |                         |
| <i>For Class 56 Rating, Add</i>  | 951.35                    |                         |
| 40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,547.03                  | 851.72                  |
| <i>For Class 52 Rating, Deduct</i>   | -358.22                   |                         |
| <i>For Class 54 Rating, Add</i>  | 503.97                    |                         |
| <i>For Class 55 Rating, Add</i>  | 757.18                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,007.14                  |                         |
| 40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,742.69                  | 856.64                  |
| <i>For Class 52 Rating, Deduct</i>   | -378.92                   |                         |
| <i>For Class 54 Rating, Add</i>  | 532.29                    |                         |
| <i>For Class 55 Rating, Add</i>  | 799.33                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,062.93                  |                         |
| 40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,938.35                  | 861.57                  |
| <i>For Class 52 Rating, Deduct</i>   | -399.62                   |                         |
| <i>For Class 54 Rating, Add</i>  | 560.61                    |                         |
| <i>For Class 55 Rating, Add</i>  | 841.48                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,118.71                  |                         |
| 40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,134.01                  | 866.48                  |
| <i>For Class 52 Rating, Deduct</i>   | -420.33                   |                         |
| <i>For Class 54 Rating, Add</i>  | 588.93                    |                         |
| <i>For Class 55 Rating, Add</i>  | 883.63                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,174.50                  |                         |
| 40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,329.68                  | 871.41                  |
| <i>For Class 52 Rating, Deduct</i>   | -441.03                   |                         |
| <i>For Class 54 Rating, Add</i>  | 617.25                    |                         |
| <i>For Class 55 Rating, Add</i>  | 925.77                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,230.29                  |                         |
| 40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,525.34                  | 876.34                  |
| <i>For Class 52 Rating, Deduct</i>   | -461.73                   |                         |
| <i>For Class 54 Rating, Add</i>  | 645.57                    |                         |
| <i>For Class 55 Rating, Add</i>  | 967.92                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,286.08                  |                         |
| 40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,721.00                  | 881.25                  |
| <i>For Class 52 Rating, Deduct</i>   | -482.43                   |                         |
| <i>For Class 54 Rating, Add</i>  | 673.89                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,010.07                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,341.87                  |                         |
| 40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,916.67                  | 886.18                  |
| <i>For Class 52 Rating, Deduct</i>   | -503.14                   |                         |
| <i>For Class 54 Rating, Add</i>  | 702.21                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,052.22                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,397.66                  |                         |
| 40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,112.32                  | 891.10                  |
| <i>For Class 52 Rating, Deduct</i>   | -523.84                   |                         |
| <i>For Class 54 Rating, Add</i>  | 730.53                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,094.37                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,453.45                  |                         |
| 40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,307.99                  | 896.03                  |
| <i>For Class 52 Rating, Deduct</i>   | -544.54                   |                         |
| <i>For Class 54 Rating, Add</i>  | 758.85                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,136.52                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,509.23                  |                         |
| 40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,503.66                  | 900.95                  |
| <i>For Class 52 Rating, Deduct</i>   | -565.24                   |                         |
| <i>For Class 54 Rating, Add</i>  | 787.17                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,178.67                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,565.02                  |                         |
| 40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,699.31                  | 905.87                  |
| <i>For Class 52 Rating, Deduct</i>   | -585.95                   |                         |
| <i>For Class 54 Rating, Add</i>  | 815.49                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,220.81                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,620.81                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0221 | EA  | 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,894.98                  | 910.80                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -606.65                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 843.81                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,262.96                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,676.60                  |                         |
| 40 05 19 00-0222 | EA  | 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,090.63                  | 915.72                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -627.35                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 872.13                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,305.11                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,732.39                  |                         |
| 40 05 19 00-0223 | EA  | 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,286.31                  | 920.64                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -648.05                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 900.45                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,347.26                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,788.18                  |                         |
| 40 05 19 00-0224 | EA  | 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,481.96                  | 925.57                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -668.75                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 928.77                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,389.41                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,843.96                  |                         |
| 40 05 19 00-0225 | EA  | 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,677.62                  | 930.49                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -689.46                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 957.09                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,431.55                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,899.75                  |                         |
| 40 05 19 00-0226 | EA  | 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,873.30                  | 935.41                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -710.16                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 985.41                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,473.70                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,955.54                  |                         |
| 40 05 19 00-0227 | EA  | 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,068.95                  | 940.33                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -730.86                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,013.73                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,515.85                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,011.33                  |                         |
| 40 05 19 00-0228 | EA  | 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,264.61                  | 945.26                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -751.56                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,042.05                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,558.00                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,067.12                  |                         |
| 40 05 19 00-0229 | EA  | 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,460.27                  | 950.19                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -772.27                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,070.37                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,600.15                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,122.91                  |                         |
| 40 05 19 00-0230 | EA  | 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,655.94                  | 955.10                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -792.97                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,098.69                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,642.30                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,178.70                  |                         |
| 40 05 19 00-0231 | EA  | 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,851.60                  | 960.03                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -813.67                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,127.01                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,684.44                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,234.48                  |                         |
| 40 05 19 00-0232 | EA  | 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,047.26                  | 964.95                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -834.37                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,155.33                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,726.59                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,290.27                  |                         |
| 40 05 19 00-0233 | EA  | 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,242.92                  | 969.88                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -855.08                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,183.65                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,768.74                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,346.06                  |                         |
| 40 05 19 00-0234 | EA  | 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,438.59                  | 974.80                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -875.78                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,211.97                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,810.89                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,401.85                  |                         |
| 40 05 19 00-0235 | EA  | 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,634.25                  | 979.72                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -896.48                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,240.29                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,853.04                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,457.64                  |                         |
| 40 05 19 00-0236 | EA  | 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,829.91                  | 984.65                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -917.18                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,268.61                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,895.19                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,513.43                  |                         |
| 40 05 19 00-0237 | EA  | 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,025.58                 | 989.57                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -937.89                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,296.93                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,937.33                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,569.21                  |                         |



| MINOR  | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0238   | EA  |     | 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,221.23              | 994.49               |
|  |     |     | For Class 52 Rating, Deduct   | -958.59                |                      |
|  |     |     | For Class 54 Rating, Add  | 1,325.25               |                      |
|  |     |     | For Class 55 Rating, Add  | 1,979.48               |                      |
|  |     |     | For Class 56 Rating, Add  | 2,625.00               |                      |
| 40 05 19 00-0239   | EA  |     | 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,416.90              | 999.41               |
|  |     |     | For Class 52 Rating, Deduct   | -979.29                |                      |
|  |     |     | For Class 54 Rating, Add  | 1,353.57               |                      |
|  |     |     | For Class 55 Rating, Add  | 2,021.63               |                      |
|  |     |     | For Class 56 Rating, Add  | 2,680.79               |                      |
| 40 05 19 00-0240   | EA  |     | 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,612.56              | 1,004.34             |
|  |     |     | For Class 52 Rating, Deduct   | -999.99                |                      |
|  |     |     | For Class 54 Rating, Add  | 1,381.89               |                      |
|  |     |     | For Class 55 Rating, Add  | 2,063.78               |                      |
|  |     |     | For Class 56 Rating, Add  | 2,736.58               |                      |
| 40 05 19 00-0241   | EA  |     | 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,808.22              | 1,009.26             |
|  |     |     | For Class 52 Rating, Deduct   | -1,020.69              |                      |
|  |     |     | For Class 54 Rating, Add  | 1,410.21               |                      |
|  |     |     | For Class 55 Rating, Add  | 2,105.93               |                      |
|  |     |     | For Class 56 Rating, Add  | 2,792.37               |                      |
| <b>40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small> |     |     |   |                        |                      |
| 40 05 19 00-0243   | EA  |     | 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,177.01               | 945.26               |
|  |     |     | For Class 52 Rating, Deduct   | -301.93                |                      |
|  |     |     | For Class 54 Rating, Add  | 428.91                 |                      |
|  |     |     | For Class 55 Rating, Add  | 646.46                 |                      |
|  |     |     | For Class 56 Rating, Add  | 861.28                 |                      |
| 40 05 19 00-0244   | EA  |     | 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,404.40               | 950.19               |
|  |     |     | For Class 52 Rating, Deduct   | -326.12                |                      |
|  |     |     | For Class 54 Rating, Add  | 461.99                 |                      |
|  |     |     | For Class 55 Rating, Add  | 695.69                 |                      |
|  |     |     | For Class 56 Rating, Add  | 926.42                 |                      |
| 40 05 19 00-0245   | EA  |     | 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,631.78               | 955.10               |
|  |     |     | For Class 52 Rating, Deduct   | -350.31                |                      |
|  |     |     | For Class 54 Rating, Add  | 495.06                 |                      |
|  |     |     | For Class 55 Rating, Add  | 744.91                 |                      |
|  |     |     | For Class 56 Rating, Add  | 991.57                 |                      |
| 40 05 19 00-0246   | EA  |     | 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,859.16               | 960.03               |
|  |     |     | For Class 52 Rating, Deduct   | -374.50                |                      |
|  |     |     | For Class 54 Rating, Add  | 528.14                 |                      |
|  |     |     | For Class 55 Rating, Add  | 794.13                 |                      |
|  |     |     | For Class 56 Rating, Add  | 1,056.71               |                      |
| 40 05 19 00-0247   | EA  |     | 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,086.54               | 964.95               |
|  |     |     | For Class 52 Rating, Deduct   | -398.69                |                      |
|  |     |     | For Class 54 Rating, Add  | 561.22                 |                      |
|  |     |     | For Class 55 Rating, Add  | 843.35                 |                      |
|  |     |     | For Class 56 Rating, Add  | 1,121.86               |                      |
| 40 05 19 00-0248   | EA  |     | 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,313.92               | 969.88               |
|  |     |     | For Class 52 Rating, Deduct   | -422.89                |                      |
|  |     |     | For Class 54 Rating, Add  | 594.30                 |                      |
|  |     |     | For Class 55 Rating, Add  | 892.57                 |                      |
|  |     |     | For Class 56 Rating, Add  | 1,187.01               |                      |
| 40 05 19 00-0249   | EA  |     | 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,541.31               | 974.80               |
|  |     |     | For Class 52 Rating, Deduct   | -447.08                |                      |
|  |     |     | For Class 54 Rating, Add  | 627.37                 |                      |
|  |     |     | For Class 55 Rating, Add  | 941.80                 |                      |
|  |     |     | For Class 56 Rating, Add  | 1,252.15               |                      |
| 40 05 19 00-0250   | EA  |     | 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,768.69               | 979.72               |
|  |     |     | For Class 52 Rating, Deduct   | -471.27                |                      |
|  |     |     | For Class 54 Rating, Add  | 660.45                 |                      |
|  |     |     | For Class 55 Rating, Add  | 991.02                 |                      |
|  |     |     | For Class 56 Rating, Add  | 1,317.30               |                      |
| 40 05 19 00-0251   | EA  |     | 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,996.06               | 984.65               |
|  |     |     | For Class 52 Rating, Deduct   | -495.46                |                      |
|  |     |     | For Class 54 Rating, Add  | 693.53                 |                      |
|  |     |     | For Class 55 Rating, Add  | 1,040.24               |                      |
|  |     |     | For Class 56 Rating, Add  | 1,382.44               |                      |
| 40 05 19 00-0252   | EA  |     | 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,223.46               | 989.57               |
|  |     |     | For Class 52 Rating, Deduct   | -519.65                |                      |
|  |     |     | For Class 54 Rating, Add  | 726.61                 |                      |
|  |     |     | For Class 55 Rating, Add  | 1,089.46               |                      |
|  |     |     | For Class 56 Rating, Add  | 1,447.59               |                      |
| 40 05 19 00-0253   | EA  |     | 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,450.83               | 994.49               |
|  |     |     | For Class 52 Rating, Deduct   | -543.84                |                      |
|  |     |     | For Class 54 Rating, Add  | 759.69                 |                      |
|  |     |     | For Class 55 Rating, Add  | 1,138.68               |                      |
|  |     |     | For Class 56 Rating, Add  | 1,512.73               |                      |
| 40 05 19 00-0254   | EA  |     | 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,678.22               | 999.41               |
|  |     |     | For Class 52 Rating, Deduct   | -568.03                |                      |
|  |     |     | For Class 54 Rating, Add  | 792.76                 |                      |
|  |     |     | For Class 55 Rating, Add  | 1,187.90               |                      |
|  |     |     | For Class 56 Rating, Add  | 1,577.88               |                      |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0255 | EA  | 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,905.59                  | 1,004.34                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -592.23                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 825.84                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,237.12                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,643.02                  |                         |
| 40 05 19 00-0256 | EA  | 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,132.98                  | 1,009.26                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -616.42                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 858.92                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,286.35                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,708.17                  |                         |
| 40 05 19 00-0257 | EA  | 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,360.37                  | 1,014.18                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -640.61                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 892.00                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,335.57                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,773.32                  |                         |
| 40 05 19 00-0258 | EA  | 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,587.74                  | 1,019.11                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -664.80                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 925.08                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,384.79                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,838.46                  |                         |
| 40 05 19 00-0259 | EA  | 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,815.12                  | 1,024.03                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -688.99                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 958.15                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,434.01                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,903.61                  |                         |
| 40 05 19 00-0260 | EA  | 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,042.51                  | 1,028.95                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -713.18                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 991.23                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,483.23                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,968.75                  |                         |
| 40 05 19 00-0261 | EA  | 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,269.89                  | 1,033.88                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -737.38                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,024.31                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,532.46                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,033.90                  |                         |
| 40 05 19 00-0262 | EA  | 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,497.27                  | 1,038.80                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -761.57                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,057.39                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,581.68                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,099.04                  |                         |
| 40 05 19 00-0263 | EA  | 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,724.65                  | 1,043.73                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -785.76                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,090.46                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,630.90                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,164.19                  |                         |
| 40 05 19 00-0264 | EA  | 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,952.04                  | 1,048.64                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -809.95                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,123.54                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,680.12                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,229.34                  |                         |
| 40 05 19 00-0265 | EA  | 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,179.42                  | 1,053.57                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -834.14                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,156.62                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,729.34                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,294.48                  |                         |
| 40 05 19 00-0266 | EA  | 16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,406.80                  | 1,058.50                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -858.33                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,189.70                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,778.56                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,359.63                  |                         |
| 40 05 19 00-0267 | EA  | 16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,634.17                  | 1,063.41                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -882.52                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,222.78                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,827.79                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,424.77                  |                         |
| 40 05 19 00-0268 | EA  | 16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,861.57                  | 1,068.34                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -906.72                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,255.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,877.01                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,489.92                  |                         |
| 40 05 19 00-0269 | EA  | 16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,088.94                 | 1,073.26                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -930.91                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,288.93                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,926.23                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,555.06                  |                         |
| 40 05 19 00-0270 | EA  | 16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,316.33                 | 1,078.19                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -955.10                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,322.01                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,975.45                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,620.21                  |                         |
| 40 05 19 00-0271 | EA  | 16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,543.70                 | 1,083.11                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -979.29                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,355.09                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,024.67                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,685.35                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| 40 05   | <b>40</b> |
| <b>Ductile Iron Process Pipe 40 05 19</b>               |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 10,771.09                 | 1,088.03                |
| For Class 52 Rating, Deduct  | -1,003.48                 |                         |
| For Class 54 Rating, Add   | 1,388.17                  |                         |
| For Class 55 Rating, Add   | 2,073.90                  |                         |
| For Class 56 Rating, Add   | 2,750.50                  |                         |
| 40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 10,998.48                 | 1,092.96                |
| For Class 52 Rating, Deduct  | -1,027.67                 |                         |
| For Class 54 Rating, Add   | 1,421.24                  |                         |
| For Class 55 Rating, Add   | 2,123.12                  |                         |
| For Class 56 Rating, Add   | 2,815.65                  |                         |
| 40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 11,225.85                 | 1,097.88                |
| For Class 52 Rating, Deduct  | -1,051.86                 |                         |
| For Class 54 Rating, Add   | 1,454.32                  |                         |
| For Class 55 Rating, Add   | 2,172.34                  |                         |
| For Class 56 Rating, Add   | 2,880.79                  |                         |
| 40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 11,453.23                 | 1,102.80                |
| For Class 52 Rating, Deduct  | -1,076.06                 |                         |
| For Class 54 Rating, Add   | 1,487.40                  |                         |
| For Class 55 Rating, Add   | 2,221.56                  |                         |
| For Class 56 Rating, Add   | 2,945.94                  |                         |
| 40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 11,680.62                 | 1,107.73                |
| For Class 52 Rating, Deduct  | -1,100.25                 |                         |
| For Class 54 Rating, Add   | 1,520.48                  |                         |
| For Class 55 Rating, Add   | 2,270.78                  |                         |
| For Class 56 Rating, Add   | 3,011.09                  |                         |
| 40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 11,908.00                 | 1,112.65                |
| For Class 52 Rating, Deduct  | -1,124.44                 |                         |
| For Class 54 Rating, Add   | 1,553.56                  |                         |
| For Class 55 Rating, Add   | 2,320.00                  |                         |
| For Class 56 Rating, Add   | 3,076.23                  |                         |
| 40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 12,135.38                 | 1,117.57                |
| For Class 52 Rating, Deduct  | -1,148.63                 |                         |
| For Class 54 Rating, Add   | 1,586.63                  |                         |
| For Class 55 Rating, Add   | 2,369.23                  |                         |
| For Class 56 Rating, Add   | 3,141.37                  |                         |
| 40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 12,362.76                 | 1,122.49                |
| For Class 52 Rating, Deduct  | -1,172.82                 |                         |
| For Class 54 Rating, Add   | 1,619.71                  |                         |
| For Class 55 Rating, Add   | 2,418.45                  |                         |
| For Class 56 Rating, Add   | 3,206.52                  |                         |
| 40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....            | 12,590.15                 | 1,127.42                |
| For Class 52 Rating, Deduct  | -1,197.01                 |                         |
| For Class 54 Rating, Add   | 1,652.79                  |                         |
| For Class 55 Rating, Add   | 2,467.67                  |                         |
| For Class 56 Rating, Add   | 3,271.67                  |                         |
| <br>   |                           |                         |
| 40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br>Ductile Iron Pipe <small>(40 05 19 00-0002)</small> |                           |                         |
| 40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 4,849.62                  | 1,065.39                |
| For Class 52 Rating, Deduct  | -355.89                   |                         |
| For Class 54 Rating, Add   | 504.68                    |                         |
| For Class 55 Rating, Add   | 760.24                    |                         |
| For Class 56 Rating, Add   | 1,012.55                  |                         |
| 40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 5,110.84                  | 1,070.31                |
| For Class 52 Rating, Deduct  | -383.81                   |                         |
| For Class 54 Rating, Add   | 542.83                    |                         |
| For Class 55 Rating, Add   | 817.00                    |                         |
| For Class 56 Rating, Add   | 1,087.68                  |                         |
| 40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 5,372.05                  | 1,075.23                |
| For Class 52 Rating, Deduct  | -411.72                   |                         |
| For Class 54 Rating, Add   | 580.99                    |                         |
| For Class 55 Rating, Add   | 873.77                    |                         |
| For Class 56 Rating, Add   | 1,162.81                  |                         |
| 40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 5,633.27                  | 1,080.16                |
| For Class 52 Rating, Deduct  | -439.63                   |                         |
| For Class 54 Rating, Add   | 619.14                    |                         |
| For Class 55 Rating, Add   | 930.54                    |                         |
| For Class 56 Rating, Add   | 1,237.94                  |                         |
| 40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 5,894.49                  | 1,085.07                |
| For Class 52 Rating, Deduct  | -467.55                   |                         |
| For Class 54 Rating, Add   | 657.29                    |                         |
| For Class 55 Rating, Add   | 987.30                    |                         |
| For Class 56 Rating, Add   | 1,313.06                  |                         |
| 40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 6,155.70                  | 1,090.00                |
| For Class 52 Rating, Deduct  | -495.46                   |                         |
| For Class 54 Rating, Add   | 695.45                    |                         |
| For Class 55 Rating, Add   | 1,044.07                  |                         |
| For Class 56 Rating, Add   | 1,388.19                  |                         |
| 40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....             | 6,416.92                  | 1,094.93                |
| For Class 52 Rating, Deduct  | -523.37                   |                         |
| For Class 54 Rating, Add   | 733.60                    |                         |
| For Class 55 Rating, Add   | 1,100.84                  |                         |
| For Class 56 Rating, Add   | 1,463.32                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0289 | EA  | 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,678.13                  | 1,099.85                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -551.29                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 771.75                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,157.60                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,538.44                  |                         |
| 40 05 19 00-0290 | EA  | 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,939.35                  | 1,104.77                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -579.20                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 809.90                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,214.37                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,613.57                  |                         |
| 40 05 19 00-0291 | EA  | 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,200.56                  | 1,109.69                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -607.11                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 848.06                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,271.14                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,688.70                  |                         |
| 40 05 19 00-0292 | EA  | 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,461.79                  | 1,114.62                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -635.03                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 886.21                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,327.90                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,763.82                  |                         |
| 40 05 19 00-0293 | EA  | 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,722.99                  | 1,119.55                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -662.94                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 924.36                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,384.67                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,838.95                  |                         |
| 40 05 19 00-0294 | EA  | 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,984.21                  | 1,124.46                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -690.85                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 962.52                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,441.44                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,914.08                  |                         |
| 40 05 19 00-0295 | EA  | 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,245.44                  | 1,129.39                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -718.77                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,000.67                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,498.20                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,989.20                  |                         |
| 40 05 19 00-0296 | EA  | 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,506.64                  | 1,134.31                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -746.68                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,038.82                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,554.97                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,064.33                  |                         |
| 40 05 19 00-0297 | EA  | 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,767.86                  | 1,139.23                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -774.59                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,076.98                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,611.74                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,139.46                  |                         |
| 40 05 19 00-0298 | EA  | 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,029.08                  | 1,144.16                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -802.51                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,115.13                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,668.50                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,214.58                  |                         |
| 40 05 19 00-0299 | EA  | 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,290.29                  | 1,149.08                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -830.42                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,153.28                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,725.27                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,289.71                  |                         |
| 40 05 19 00-0300 | EA  | 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,551.51                  | 1,154.01                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -858.33                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,191.43                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,782.04                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,364.84                  |                         |
| 40 05 19 00-0301 | EA  | 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,812.73                  | 1,158.92                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -886.25                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,229.59                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,838.80                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,439.96                  |                         |
| 40 05 19 00-0302 | EA  | 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,073.95                 | 1,163.85                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -914.16                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,267.74                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,895.57                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,515.09                  |                         |
| 40 05 19 00-0303 | EA  | 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,335.16                 | 1,168.77                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -942.07                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,305.89                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,952.34                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,590.22                  |                         |
| 40 05 19 00-0304 | EA  | 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,596.38                 | 1,173.70                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -969.99                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,344.05                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,009.11                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,665.34                  |                         |
| 40 05 19 00-0305 | EA  | 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,857.59                 | 1,178.62                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -997.90                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,382.20                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,065.87                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,740.47                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 11,118.81                 | 1,183.54                |
| For Class 52 Rating, Deduct  | -1,025.81                 |                         |
| For Class 54 Rating, Add   | 1,420.35                  |                         |
| For Class 55 Rating, Add   | 2,122.64                  |                         |
| For Class 56 Rating, Add   | 2,815.60                  |                         |
| 40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 11,380.02                 | 1,188.47                |
| For Class 52 Rating, Deduct  | -1,053.73                 |                         |
| For Class 54 Rating, Add   | 1,458.51                  |                         |
| For Class 55 Rating, Add   | 2,179.41                  |                         |
| For Class 56 Rating, Add   | 2,890.72                  |                         |
| 40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 11,641.25                 | 1,193.38                |
| For Class 52 Rating, Deduct  | -1,081.64                 |                         |
| For Class 54 Rating, Add   | 1,496.66                  |                         |
| For Class 55 Rating, Add   | 2,236.17                  |                         |
| For Class 56 Rating, Add   | 2,965.85                  |                         |
| 40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 11,902.46                 | 1,198.31                |
| For Class 52 Rating, Deduct  | -1,109.55                 |                         |
| For Class 54 Rating, Add   | 1,534.81                  |                         |
| For Class 55 Rating, Add   | 2,292.94                  |                         |
| For Class 56 Rating, Add   | 3,040.98                  |                         |
| 40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 12,163.67                 | 1,203.24                |
| For Class 52 Rating, Deduct  | -1,137.46                 |                         |
| For Class 54 Rating, Add   | 1,572.97                  |                         |
| For Class 55 Rating, Add   | 2,349.71                  |                         |
| For Class 56 Rating, Add   | 3,116.10                  |                         |
| 40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 12,424.90                 | 1,208.16                |
| For Class 52 Rating, Deduct  | -1,165.38                 |                         |
| For Class 54 Rating, Add   | 1,611.12                  |                         |
| For Class 55 Rating, Add   | 2,406.47                  |                         |
| For Class 56 Rating, Add   | 3,191.23                  |                         |
| 40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 12,686.10                 | 1,213.08                |
| For Class 52 Rating, Deduct  | -1,193.29                 |                         |
| For Class 54 Rating, Add   | 1,649.27                  |                         |
| For Class 55 Rating, Add   | 2,463.24                  |                         |
| For Class 56 Rating, Add   | 3,266.36                  |                         |
| 40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 12,947.33                 | 1,218.00                |
| For Class 52 Rating, Deduct  | -1,221.20                 |                         |
| For Class 54 Rating, Add   | 1,687.42                  |                         |
| For Class 55 Rating, Add   | 2,520.01                  |                         |
| For Class 56 Rating, Add   | 3,341.49                  |                         |
| 40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 13,208.54                 | 1,222.93                |
| For Class 52 Rating, Deduct  | -1,249.12                 |                         |
| For Class 54 Rating, Add   | 1,725.58                  |                         |
| For Class 55 Rating, Add   | 2,576.77                  |                         |
| For Class 56 Rating, Add   | 3,416.61                  |                         |
| 40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 13,469.75                 | 1,227.86                |
| For Class 52 Rating, Deduct  | -1,277.03                 |                         |
| For Class 54 Rating, Add   | 1,763.73                  |                         |
| For Class 55 Rating, Add   | 2,633.54                  |                         |
| For Class 56 Rating, Add   | 3,491.74                  |                         |
| 40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 13,730.98                 | 1,232.77                |
| For Class 52 Rating, Deduct  | -1,304.94                 |                         |
| For Class 54 Rating, Add   | 1,801.88                  |                         |
| For Class 55 Rating, Add   | 2,690.31                  |                         |
| For Class 56 Rating, Add   | 3,566.87                  |                         |
| 40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 13,992.19                 | 1,237.70                |
| For Class 52 Rating, Deduct  | -1,332.86                 |                         |
| For Class 54 Rating, Add   | 1,840.04                  |                         |
| For Class 55 Rating, Add   | 2,747.07                  |                         |
| For Class 56 Rating, Add   | 3,641.99                  |                         |
| 40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 14,253.40                 | 1,242.62                |
| For Class 52 Rating, Deduct  | -1,360.77                 |                         |
| For Class 54 Rating, Add   | 1,878.19                  |                         |
| For Class 55 Rating, Add   | 2,803.84                  |                         |
| For Class 56 Rating, Add   | 3,717.12                  |                         |
| 40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 14,514.62                 | 1,247.55                |
| For Class 52 Rating, Deduct  | -1,388.68                 |                         |
| For Class 54 Rating, Add   | 1,916.34                  |                         |
| For Class 55 Rating, Add   | 2,860.61                  |                         |
| For Class 56 Rating, Add   | 3,792.25                  |                         |
| <b>40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small> |                           |                         |
| 40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 5,667.86                  | 1,216.04                |
| For Class 52 Rating, Deduct  | -420.79                   |                         |
| For Class 54 Rating, Add   | 595.92                    |                         |
| For Class 55 Rating, Add   | 897.28                    |                         |
| For Class 56 Rating, Add   | 1,194.82                  |                         |
| 40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 5,967.14                  | 1,220.96                |
| For Class 52 Rating, Deduct  | -452.89                   |                         |
| For Class 54 Rating, Add   | 639.78                    |                         |
| For Class 55 Rating, Add   | 962.53                    |                         |
| For Class 56 Rating, Add   | 1,281.17                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0323 | EA  | 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,266.42                  | 1,225.88                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -484.99                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 683.64                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,027.79                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,367.53                  |                         |
| 40 05 19 00-0324 | EA  | 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,565.69                  | 1,230.80                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -517.09                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 727.50                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,093.04                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,453.88                  |                         |
| 40 05 19 00-0325 | EA  | 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,864.98                  | 1,235.73                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -549.19                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 771.37                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,158.30                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,540.24                  |                         |
| 40 05 19 00-0326 | EA  | 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,164.27                  | 1,240.66                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -581.29                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 815.23                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,223.56                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,626.60                  |                         |
| 40 05 19 00-0327 | EA  | 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,463.54                  | 1,245.57                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -613.39                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 859.09                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,288.81                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,712.95                  |                         |
| 40 05 19 00-0328 | EA  | 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,762.83                  | 1,250.50                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -645.49                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 902.96                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,354.07                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,799.31                  |                         |
| 40 05 19 00-0329 | EA  | 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,062.10                  | 1,255.42                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -677.59                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 946.82                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,419.32                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,885.66                  |                         |
| 40 05 19 00-0330 | EA  | 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,361.39                  | 1,260.35                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -709.69                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 990.68                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,484.58                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,972.02                  |                         |
| 40 05 19 00-0331 | EA  | 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,660.66                  | 1,265.27                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -741.79                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,034.54                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,549.83                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,058.37                  |                         |
| 40 05 19 00-0332 | EA  | 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,959.94                  | 1,270.19                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -773.90                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,078.41                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,615.09                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,144.73                  |                         |
| 40 05 19 00-0333 | EA  | 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,259.23                  | 1,275.12                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -806.00                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,122.27                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,680.34                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,231.08                  |                         |
| 40 05 19 00-0334 | EA  | 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,558.50                  | 1,280.04                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -838.10                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,166.13                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,745.59                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,317.44                  |                         |
| 40 05 19 00-0335 | EA  | 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,857.78                  | 1,284.96                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -870.20                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,209.99                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,810.85                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,403.80                  |                         |
| 40 05 19 00-0336 | EA  | 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,157.06                 | 1,289.89                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -902.30                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,253.86                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,876.10                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,490.15                  |                         |
| 40 05 19 00-0337 | EA  | 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,456.34                 | 1,294.81                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -934.40                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,297.72                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,941.36                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,576.51                  |                         |
| 40 05 19 00-0338 | EA  | 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,755.62                 | 1,299.73                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -966.50                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,341.58                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,006.61                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,662.86                  |                         |
| 40 05 19 00-0339 | EA  | 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,054.90                 | 1,304.65                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -998.60                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,385.44                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,071.87                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,749.22                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,354.18                 | 1,309.58                |
| <i>For Class 52 Rating, Deduct</i>  | -1,030.70                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,429.31                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,137.12                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,835.57                  |                         |
| 40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,653.46                 | 1,314.50                |
| <i>For Class 52 Rating, Deduct</i>  | -1,062.80                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,473.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,202.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,921.93                  |                         |
| 40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,952.74                 | 1,319.42                |
| <i>For Class 52 Rating, Deduct</i>  | -1,094.90                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,517.03                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,267.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,008.28                  |                         |
| 40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,252.01                 | 1,324.35                |
| <i>For Class 52 Rating, Deduct</i>  | -1,127.00                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,560.89                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,332.89                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,094.64                  |                         |
| 40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,551.30                 | 1,329.27                |
| <i>For Class 52 Rating, Deduct</i>  | -1,159.10                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,604.76                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,398.14                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,180.99                  |                         |
| 40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,850.57                 | 1,334.20                |
| <i>For Class 52 Rating, Deduct</i>  | -1,191.20                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,648.62                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,463.40                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,267.35                  |                         |
| 40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,149.86                 | 1,339.11                |
| <i>For Class 52 Rating, Deduct</i>  | -1,223.30                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,692.48                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,528.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,353.71                  |                         |
| 40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,449.14                 | 1,344.04                |
| <i>For Class 52 Rating, Deduct</i>  | -1,255.40                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,736.34                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,593.91                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,440.06                  |                         |
| 40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,748.41                 | 1,348.97                |
| <i>For Class 52 Rating, Deduct</i>  | -1,287.50                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,780.21                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,659.16                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,526.42                  |                         |
| 40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,047.70                 | 1,353.88                |
| <i>For Class 52 Rating, Deduct</i>  | -1,319.60                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,824.07                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,724.42                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,612.77                  |                         |
| 40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,346.97                 | 1,358.81                |
| <i>For Class 52 Rating, Deduct</i>  | -1,351.70                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,867.93                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,789.67                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,699.13                  |                         |
| 40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,646.25                 | 1,363.73                |
| <i>For Class 52 Rating, Deduct</i>  | -1,383.80                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,911.79                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,854.93                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,785.48                  |                         |
| 40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,945.53                 | 1,368.66                |
| <i>For Class 52 Rating, Deduct</i>  | -1,415.90                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,955.66                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,920.18                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,871.84                  |                         |
| 40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,244.81                 | 1,373.58                |
| <i>For Class 52 Rating, Deduct</i>  | -1,448.00                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,999.52                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,985.44                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,958.19                  |                         |
| 40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,544.09                 | 1,378.50                |
| <i>For Class 52 Rating, Deduct</i>  | -1,480.10                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,043.38                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,050.69                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,044.55                  |                         |
| 40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,843.37                 | 1,383.43                |
| <i>For Class 52 Rating, Deduct</i>  | -1,512.20                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,087.24                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,115.95                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,130.90                  |                         |
| 40 05 19 00-0356 EA 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,142.66                 | 1,388.35                |
| <i>For Class 52 Rating, Deduct</i>  | -1,544.30                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,131.11                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,181.20                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,217.26                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0357        | EA  | 20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 16,441.94                 | 1,393.27                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,576.40                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,174.97                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,246.46                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 4,303.62                  |                         |
| 40 05 19 00-0358        | EA  | 20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 16,741.22                 | 1,398.20                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,608.50                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,218.83                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,311.71                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 4,389.97                  |                         |
| <b>40 05 19 00-0359</b> |     | <b>24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b> |                           |                         |
| 40 05 19 00-0360        | EA  | 24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 6,953.01                  | 1,437.58                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -525.23                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 742.37                    |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,117.07                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 1,487.00                  |                         |
| 40 05 19 00-0361        | EA  | 24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 7,322.07                  | 1,442.51                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -565.01                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 796.70                    |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,197.89                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 1,593.94                  |                         |
| 40 05 19 00-0362        | EA  | 24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 7,691.13                  | 1,447.42                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -604.79                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 851.03                    |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,278.70                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 1,700.88                  |                         |
| 40 05 19 00-0363        | EA  | 24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 8,060.20                  | 1,452.35                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -644.56                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 905.36                    |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,359.52                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 1,807.82                  |                         |
| 40 05 19 00-0364        | EA  | 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 8,429.27                  | 1,457.28                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -684.34                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 959.69                    |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,440.34                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 1,914.76                  |                         |
| 40 05 19 00-0365        | EA  | 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 8,798.32                  | 1,462.19                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -724.12                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,014.02                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,521.15                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,021.70                  |                         |
| 40 05 19 00-0366        | EA  | 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 9,167.39                  | 1,467.12                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -763.89                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,068.35                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,601.97                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,128.65                  |                         |
| 40 05 19 00-0367        | EA  | 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 9,536.45                  | 1,472.04                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -803.67                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,122.68                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,682.78                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,235.59                  |                         |
| 40 05 19 00-0368        | EA  | 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 9,905.51                  | 1,476.97                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -843.44                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,177.01                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,763.60                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,342.53                  |                         |
| 40 05 19 00-0369        | EA  | 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 10,274.58                 | 1,481.89                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -883.22                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,231.34                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,844.42                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,449.47                  |                         |
| 40 05 19 00-0370        | EA  | 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 10,643.64                 | 1,486.81                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -923.00                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,285.67                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,925.23                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,556.41                  |                         |
| 40 05 19 00-0371        | EA  | 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 11,012.70                 | 1,491.74                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -962.78                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,340.00                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,006.05                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,663.35                  |                         |
| 40 05 19 00-0372        | EA  | 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 11,381.77                 | 1,496.66                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,002.55                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,394.33                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,086.87                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,770.30                  |                         |
| 40 05 19 00-0373        | EA  | 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 11,750.83                 | 1,501.58                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,042.33                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,448.66                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,167.68                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,877.24                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 12,119.89                 | 1,506.51                |
| For Class 52 Rating, Deduct   | -1,082.10                 |                         |
| For Class 54 Rating, Add  | 1,502.99                  |                         |
| For Class 55 Rating, Add  | 2,248.50                  |                         |
| For Class 56 Rating, Add  | 2,984.18                  |                         |
| 40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 12,488.96                 | 1,511.43                |
| For Class 52 Rating, Deduct   | -1,121.88                 |                         |
| For Class 54 Rating, Add  | 1,557.32                  |                         |
| For Class 55 Rating, Add  | 2,329.32                  |                         |
| For Class 56 Rating, Add  | 3,091.12                  |                         |
| 40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 12,858.01                 | 1,516.36                |
| For Class 52 Rating, Deduct   | -1,161.66                 |                         |
| For Class 54 Rating, Add  | 1,611.65                  |                         |
| For Class 55 Rating, Add  | 2,410.13                  |                         |
| For Class 56 Rating, Add  | 3,198.06                  |                         |
| 40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 13,227.09                 | 1,521.27                |
| For Class 52 Rating, Deduct   | -1,201.43                 |                         |
| For Class 54 Rating, Add  | 1,665.98                  |                         |
| For Class 55 Rating, Add  | 2,490.95                  |                         |
| For Class 56 Rating, Add  | 3,305.00                  |                         |
| 40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,596.14                 | 1,526.20                |
| For Class 52 Rating, Deduct   | -1,241.21                 |                         |
| For Class 54 Rating, Add  | 1,720.31                  |                         |
| For Class 55 Rating, Add  | 2,571.77                  |                         |
| For Class 56 Rating, Add  | 3,411.94                  |                         |
| 40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,965.20                 | 1,531.13                |
| For Class 52 Rating, Deduct   | -1,280.99                 |                         |
| For Class 54 Rating, Add  | 1,774.64                  |                         |
| For Class 55 Rating, Add  | 2,652.58                  |                         |
| For Class 56 Rating, Add  | 3,518.89                  |                         |
| 40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,334.28                 | 1,536.04                |
| For Class 52 Rating, Deduct   | -1,320.76                 |                         |
| For Class 54 Rating, Add  | 1,828.97                  |                         |
| For Class 55 Rating, Add  | 2,733.40                  |                         |
| For Class 56 Rating, Add  | 3,625.83                  |                         |
| 40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,703.33                 | 1,540.97                |
| For Class 52 Rating, Deduct   | -1,360.54                 |                         |
| For Class 54 Rating, Add  | 1,883.30                  |                         |
| For Class 55 Rating, Add  | 2,814.22                  |                         |
| For Class 56 Rating, Add  | 3,732.77                  |                         |
| 40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,072.39                 | 1,545.89                |
| For Class 52 Rating, Deduct   | -1,400.31                 |                         |
| For Class 54 Rating, Add  | 1,937.63                  |                         |
| For Class 55 Rating, Add  | 2,895.03                  |                         |
| For Class 56 Rating, Add  | 3,839.71                  |                         |
| 40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,441.46                 | 1,550.82                |
| For Class 52 Rating, Deduct   | -1,440.09                 |                         |
| For Class 54 Rating, Add  | 1,991.96                  |                         |
| For Class 55 Rating, Add  | 2,975.85                  |                         |
| For Class 56 Rating, Add  | 3,946.65                  |                         |
| 40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,810.52                 | 1,555.74                |
| For Class 52 Rating, Deduct   | -1,479.87                 |                         |
| For Class 54 Rating, Add  | 2,046.29                  |                         |
| For Class 55 Rating, Add  | 3,056.67                  |                         |
| For Class 56 Rating, Add  | 4,053.59                  |                         |
| 40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,179.58                 | 1,560.66                |
| For Class 52 Rating, Deduct   | -1,519.64                 |                         |
| For Class 54 Rating, Add  | 2,100.62                  |                         |
| For Class 55 Rating, Add  | 3,137.48                  |                         |
| For Class 56 Rating, Add  | 4,160.53                  |                         |
| 40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,548.65                 | 1,565.59                |
| For Class 52 Rating, Deduct   | -1,559.42                 |                         |
| For Class 54 Rating, Add  | 2,154.95                  |                         |
| For Class 55 Rating, Add  | 3,218.30                  |                         |
| For Class 56 Rating, Add  | 4,267.48                  |                         |
| 40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,917.71                 | 1,570.51                |
| For Class 52 Rating, Deduct   | -1,599.20                 |                         |
| For Class 54 Rating, Add  | 2,209.28                  |                         |
| For Class 55 Rating, Add  | 3,299.12                  |                         |
| For Class 56 Rating, Add  | 4,374.42                  |                         |
| 40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 17,286.77                 | 1,575.43                |
| For Class 52 Rating, Deduct   | -1,638.97                 |                         |
| For Class 54 Rating, Add  | 2,263.61                  |                         |
| For Class 55 Rating, Add  | 3,379.93                  |                         |
| For Class 56 Rating, Add  | 4,481.36                  |                         |
| 40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 17,282.64                 | 1,664.05                |
| For Class 52 Rating, Deduct   | -1,678.75                 |                         |
| For Class 54 Rating, Add  | 2,319.46                  |                         |
| For Class 55 Rating, Add  | 3,463.79                  |                         |
| For Class 56 Rating, Add  | 4,592.87                  |                         |
| 40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 18,151.71                 | 1,668.97                |
| For Class 52 Rating, Deduct   | -1,718.53                 |                         |
| For Class 54 Rating, Add  | 2,373.79                  |                         |
| For Class 55 Rating, Add  | 3,544.61                  |                         |
| For Class 56 Rating, Add  | 4,699.81                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI            | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0391        | EA  | 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 18,520.76                 | 1,673.90                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,758.30                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,428.12                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,625.43                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 4,806.75                  |                         |
| 40 05 19 00-0392        | EA  | 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 18,889.84                 | 1,678.82                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,798.08                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,482.45                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,706.24                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 4,913.69                  |                         |
| 40 05 19 00-0393        | EA  | 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 19,258.90                 | 1,683.74                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,837.85                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,536.78                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,787.06                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 5,020.63                  |                         |
| 40 05 19 00-0394        | EA  | 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 19,627.95                 | 1,688.67                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,877.63                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,591.11                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,867.88                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 5,127.57                  |                         |
| 40 05 19 00-0395        | EA  | 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 19,997.03                 | 1,693.59                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,917.41                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,645.44                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 3,948.69                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 5,234.52                  |                         |
| 40 05 19 00-0396        | EA  | 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 20,366.08                 | 1,698.51                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,957.18                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,699.77                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 4,029.51                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 5,341.46                  |                         |
| 40 05 19 00-0397        | EA  | 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 20,735.14                 | 1,703.43                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,996.96                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 2,754.10                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 4,110.33                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 5,448.40                  |                         |
| <b>40 05 19 00-0398</b> |     | <b>30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b> |                           |                         |
| 40 05 19 00-0399        | EA  | 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 10,664.84                 | 2,028.37                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -835.07                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,175.61                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,766.68                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,350.15                  |                         |
| 40 05 19 00-0400        | EA  | 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 11,194.62                 | 2,033.29                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -892.53                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,254.05                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,883.33                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,504.50                  |                         |
| 40 05 19 00-0401        | EA  | 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 11,724.39                 | 2,038.22                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -949.98                   |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,332.49                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 1,999.99                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,658.85                  |                         |
| 40 05 19 00-0402        | EA  | 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 12,254.18                 | 2,043.14                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,007.44                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,410.92                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,116.64                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,813.20                  |                         |
| 40 05 19 00-0403        | EA  | 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 12,783.94                 | 2,048.06                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,064.89                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,489.36                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,233.30                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 2,967.55                  |                         |
| 40 05 19 00-0404        | EA  | 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 13,313.72                 | 2,052.98                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,122.35                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,567.80                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,349.95                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 3,121.91                  |                         |
| 40 05 19 00-0405        | EA  | 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 13,843.50                 | 2,057.91                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,179.80                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,646.23                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,466.61                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 3,276.26                  |                         |
| 40 05 19 00-0406        | EA  | 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 14,373.27                 | 2,062.83                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,237.25                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,724.67                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,583.26                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 3,430.61                  |                         |
| 40 05 19 00-0407        | EA  | 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 14,903.05                 | 2,067.75                |
|                         |     | <i>For Class 52 Rating, Deduct</i>  | -1,294.71                 |                         |
|                         |     | <i>For Class 54 Rating, Add</i>   | 1,803.11                  |                         |
|                         |     | <i>For Class 55 Rating, Add</i>   | 2,699.92                  |                         |
|                         |     | <i>For Class 56 Rating, Add</i>   | 3,584.96                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 15,432.82                 | 2,072.68                |
| For Class 52 Rating, Deduct   | -1,352.16                 |                         |
| For Class 54 Rating, Add  | 1,881.55                  |                         |
| For Class 55 Rating, Add  | 2,816.58                  |                         |
| For Class 56 Rating, Add  | 3,739.31                  |                         |
| 40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 15,962.60                 | 2,077.60                |
| For Class 52 Rating, Deduct   | -1,409.62                 |                         |
| For Class 54 Rating, Add  | 1,959.98                  |                         |
| For Class 55 Rating, Add  | 2,933.23                  |                         |
| For Class 56 Rating, Add  | 3,893.67                  |                         |
| 40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 16,492.37                 | 2,082.52                |
| For Class 52 Rating, Deduct   | -1,467.07                 |                         |
| For Class 54 Rating, Add  | 2,038.42                  |                         |
| For Class 55 Rating, Add  | 3,049.89                  |                         |
| For Class 56 Rating, Add  | 4,048.02                  |                         |
| 40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 17,022.15                 | 2,087.45                |
| For Class 52 Rating, Deduct   | -1,524.53                 |                         |
| For Class 54 Rating, Add  | 2,116.86                  |                         |
| For Class 55 Rating, Add  | 3,166.54                  |                         |
| For Class 56 Rating, Add  | 4,202.37                  |                         |
| 40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 17,551.93                 | 2,092.37                |
| For Class 52 Rating, Deduct   | -1,581.98                 |                         |
| For Class 54 Rating, Add  | 2,195.29                  |                         |
| For Class 55 Rating, Add  | 3,283.20                  |                         |
| For Class 56 Rating, Add  | 4,356.72                  |                         |
| 40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 18,081.70                 | 2,097.30                |
| For Class 52 Rating, Deduct   | -1,639.44                 |                         |
| For Class 54 Rating, Add  | 2,273.73                  |                         |
| For Class 55 Rating, Add  | 3,399.85                  |                         |
| For Class 56 Rating, Add  | 4,511.07                  |                         |
| 40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 18,611.48                 | 2,102.21                |
| For Class 52 Rating, Deduct   | -1,696.89                 |                         |
| For Class 54 Rating, Add  | 2,352.17                  |                         |
| For Class 55 Rating, Add  | 3,516.51                  |                         |
| For Class 56 Rating, Add  | 4,665.42                  |                         |
| 40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 19,141.24                 | 2,107.14                |
| For Class 52 Rating, Deduct   | -1,754.35                 |                         |
| For Class 54 Rating, Add  | 2,430.60                  |                         |
| For Class 55 Rating, Add  | 3,633.16                  |                         |
| For Class 56 Rating, Add  | 4,819.77                  |                         |
| 40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 19,671.03                 | 2,112.07                |
| For Class 52 Rating, Deduct   | -1,811.80                 |                         |
| For Class 54 Rating, Add  | 2,509.04                  |                         |
| For Class 55 Rating, Add  | 3,749.82                  |                         |
| For Class 56 Rating, Add  | 4,974.13                  |                         |
| 40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 20,200.80                 | 2,116.98                |
| For Class 52 Rating, Deduct   | -1,869.26                 |                         |
| For Class 54 Rating, Add  | 2,587.48                  |                         |
| For Class 55 Rating, Add  | 3,866.48                  |                         |
| For Class 56 Rating, Add  | 5,128.48                  |                         |
| 40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 20,730.58                 | 2,121.91                |
| For Class 52 Rating, Deduct   | -1,926.71                 |                         |
| For Class 54 Rating, Add  | 2,665.91                  |                         |
| For Class 55 Rating, Add  | 3,983.13                  |                         |
| For Class 56 Rating, Add  | 5,282.83                  |                         |
| 40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 21,260.35                 | 2,126.83                |
| For Class 52 Rating, Deduct   | -1,984.17                 |                         |
| For Class 54 Rating, Add  | 2,744.35                  |                         |
| For Class 55 Rating, Add  | 4,099.79                  |                         |
| For Class 56 Rating, Add  | 5,437.18                  |                         |
| 40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 21,790.13                 | 2,131.76                |
| For Class 52 Rating, Deduct   | -2,041.62                 |                         |
| For Class 54 Rating, Add  | 2,822.79                  |                         |
| For Class 55 Rating, Add  | 4,216.44                  |                         |
| For Class 56 Rating, Add  | 5,591.54                  |                         |
| 40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 22,319.91                 | 2,136.68                |
| For Class 52 Rating, Deduct   | -2,099.08                 |                         |
| For Class 54 Rating, Add  | 2,901.23                  |                         |
| For Class 55 Rating, Add  | 4,333.10                  |                         |
| For Class 56 Rating, Add  | 5,745.89                  |                         |
| 40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 22,849.68                 | 2,141.60                |
| For Class 52 Rating, Deduct   | -2,156.53                 |                         |
| For Class 54 Rating, Add  | 2,979.66                  |                         |
| For Class 55 Rating, Add  | 4,449.75                  |                         |
| For Class 56 Rating, Add  | 5,900.24                  |                         |
| 40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 23,379.34                 | 2,146.53                |
| For Class 52 Rating, Deduct   | -2,213.75                 |                         |
| For Class 54 Rating, Add  | 3,057.78                  |                         |
| For Class 55 Rating, Add  | 4,565.94                  |                         |
| For Class 56 Rating, Add  | 6,053.97                  |                         |
| 40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 23,909.23                 | 2,151.45                |
| For Class 52 Rating, Deduct   | -2,271.44                 |                         |
| For Class 54 Rating, Add  | 3,136.54                  |                         |
| For Class 55 Rating, Add  | 4,683.06                  |                         |
| For Class 56 Rating, Add  | 6,208.94                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0425 | EA  | 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 24,439.01                 | 2,156.37                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,328.90                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,214.97                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,799.72                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,363.30                  |                         |
| 40 05 19 00-0426 | EA  | 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 24,968.78                 | 2,161.30                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,386.35                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,293.41                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,916.37                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,517.65                  |                         |
| 40 05 19 00-0427 | EA  | 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 25,498.56                 | 2,166.22                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,443.81                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,371.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,033.03                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,672.00                  |                         |
| 40 05 19 00-0428 | EA  | 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 26,028.33                 | 2,171.14                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,501.26                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,450.28                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,149.69                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,826.35                  |                         |
| 40 05 19 00-0429 | EA  | 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 26,558.11                 | 2,176.06                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,558.71                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,528.72                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,266.34                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,980.70                  |                         |
| 40 05 19 00-0430 | EA  | 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 27,087.89                 | 2,180.99                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,616.17                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,607.16                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,383.00                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,135.05                  |                         |
| 40 05 19 00-0431 | EA  | 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 27,617.65                 | 2,185.92                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,673.62                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,685.59                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,499.65                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,289.40                  |                         |
| 40 05 19 00-0432 | EA  | 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 28,147.44                 | 2,190.83                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,731.08                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,764.03                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,616.31                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,443.76                  |                         |
| 40 05 19 00-0433 | EA  | 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 28,677.20                 | 2,195.76                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,788.53                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,842.47                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,732.96                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,598.11                  |                         |
| 40 05 19 00-0434 | EA  | 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 29,206.99                 | 2,200.68                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,845.99                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,920.91                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,849.62                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,752.46                  |                         |
| 40 05 19 00-0435 | EA  | 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 29,736.77                 | 2,205.61                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,903.44                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,999.34                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,966.28                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,906.81                  |                         |
| 40 05 19 00-0436 | EA  | 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                       | 30,266.53                 | 2,210.52                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,960.90                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,077.78                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,082.93                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 8,061.16                  |                         |
| 40 05 19 00-0437 |     | <b>36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small> |                           |                         |
| 40 05 19 00-0438 | EA  | 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 14,756.73                 | 2,569.92                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,194.92                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,676.16                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,515.88                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,344.74                  |                         |
| 40 05 19 00-0439 | EA  | 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 15,474.70                 | 2,574.84                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,273.08                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,782.83                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,674.50                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,554.60                  |                         |
| 40 05 19 00-0440 | EA  | 36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 16,192.69                 | 2,579.77                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,351.23                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,889.50                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,833.13                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,764.48                  |                         |
| 40 05 19 00-0441 | EA  | 36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                        | 16,910.66                 | 2,584.70                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,429.39                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,996.16                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,991.75                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,974.35                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 17,628.64                 | 2,589.61                |
| <i>For Class 52 Rating, Deduct</i>  | -1,507.55                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,102.83                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,150.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,184.22                  |                         |
| 40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 18,346.62                 | 2,594.54                |
| <i>For Class 52 Rating, Deduct</i>  | -1,585.71                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,209.50                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,309.00                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,394.09                  |                         |
| 40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 19,064.60                 | 2,599.46                |
| <i>For Class 52 Rating, Deduct</i>  | -1,663.86                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,316.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,467.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,603.96                  |                         |
| 40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 19,782.58                 | 2,604.39                |
| <i>For Class 52 Rating, Deduct</i>  | -1,742.02                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,422.83                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,626.25                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,813.84                  |                         |
| 40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 20,500.56                 | 2,609.31                |
| <i>For Class 52 Rating, Deduct</i>  | -1,820.18                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,529.50                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,784.88                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,023.71                  |                         |
| 40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 21,218.54                 | 2,614.23                |
| <i>For Class 52 Rating, Deduct</i>  | -1,898.33                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,636.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,943.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,233.58                  |                         |
| 40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 21,936.52                 | 2,619.16                |
| <i>For Class 52 Rating, Deduct</i>  | -1,976.49                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,742.84                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,102.13                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,443.45                  |                         |
| 40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 22,654.50                 | 2,624.08                |
| <i>For Class 52 Rating, Deduct</i>  | -2,054.65                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,849.50                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,260.75                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,653.32                  |                         |
| 40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 23,372.46                 | 2,629.00                |
| <i>For Class 52 Rating, Deduct</i>  | -2,132.80                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,956.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,419.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,863.19                  |                         |
| 40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 24,090.45                 | 2,633.93                |
| <i>For Class 52 Rating, Deduct</i>  | -2,210.96                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,062.84                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,578.00                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,073.07                  |                         |
| 40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 24,808.42                 | 2,638.85                |
| <i>For Class 52 Rating, Deduct</i>  | -2,289.12                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,169.50                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,736.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,282.94                  |                         |
| 40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 25,526.41                 | 2,643.77                |
| <i>For Class 52 Rating, Deduct</i>  | -2,367.28                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,276.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,895.25                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,492.81                  |                         |
| 40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 26,244.38                 | 2,648.69                |
| <i>For Class 52 Rating, Deduct</i>  | -2,445.43                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,382.84                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,053.88                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,702.68                  |                         |
| 40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 26,962.36                 | 2,653.62                |
| <i>For Class 52 Rating, Deduct</i>  | -2,523.59                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,489.51                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,212.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,912.55                  |                         |
| 40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 27,680.35                 | 2,658.54                |
| <i>For Class 52 Rating, Deduct</i>  | -2,601.75                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,596.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,371.13                  |                         |
| <i>For Class 56 Rating, Add</i>   | 7,122.43                  |                         |
| 40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 28,398.32                 | 2,663.46                |
| <i>For Class 52 Rating, Deduct</i>  | -2,679.90                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,702.84                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,529.75                  |                         |
| <i>For Class 56 Rating, Add</i>   | 7,332.30                  |                         |
| 40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 29,116.30                 | 2,668.39                |
| <i>For Class 52 Rating, Deduct</i>  | -2,758.06                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,809.51                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,688.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 7,542.17                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0459 | EA  | 36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 29,834.28                 | 2,673.31                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,836.22                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,916.18                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,847.00                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,752.04                  |                         |
| 40 05 19 00-0460 | EA  | 36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 30,552.25                 | 2,678.24                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,914.38                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,022.84                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,005.62                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,961.91                  |                         |
| 40 05 19 00-0461 | EA  | 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 31,270.23                 | 2,683.15                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,992.53                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,129.51                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,164.25                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 8,171.78                  |                         |
| 40 05 19 00-0462 | EA  | 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 31,988.21                 | 2,688.08                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,070.69                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,236.18                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,322.87                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 8,381.65                  |                         |
| 40 05 19 00-0463 | EA  | 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 32,706.19                 | 2,693.01                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,148.85                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,342.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,481.50                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 8,591.53                  |                         |
| 40 05 19 00-0464 | EA  | 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 33,424.17                 | 2,697.92                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,227.00                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,449.51                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,640.12                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 8,801.40                  |                         |
| 40 05 19 00-0465 | EA  | 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 34,142.15                 | 2,702.85                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,305.16                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,556.18                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,798.75                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 9,011.27                  |                         |
| 40 05 19 00-0466 | EA  | 36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 34,860.12                 | 2,707.77                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,383.32                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,662.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,957.37                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 9,221.14                  |                         |
| 40 05 19 00-0467 | EA  | 36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 35,578.11                 | 2,712.70                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,461.48                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,769.52                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 7,116.00                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 9,431.01                  |                         |
| 40 05 19 00-0468 | EA  | 36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 36,296.08                 | 2,717.62                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,539.63                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,876.18                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 7,274.62                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 9,640.89                  |                         |
| 40 05 19 00-0469 | EA  | 36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 37,014.07                 | 2,722.54                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,617.79                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,982.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 7,433.25                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 9,850.76                  |                         |
| 40 05 19 00-0470 | EA  | 36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 37,732.05                 | 2,727.47                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,695.95                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,089.52                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 7,591.87                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 10,060.63                 |                         |
| 40 05 19 00-0471 | EA  | 36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 38,450.01                 | 2,732.39                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,774.10                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,196.18                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 7,750.50                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 10,270.50                 |                         |
| 40 05 19 00-0472 | EA  | 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 39,168.00                 | 2,737.31                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,852.26                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,302.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 7,909.12                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 10,480.37                 |                         |
| 40 05 19 00-0473 | EA  | 36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 39,885.97                 | 2,742.24                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,930.42                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,409.52                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 8,067.75                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 10,690.24                 |                         |
| 40 05 19 00-0474 | EA  | 36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 40,603.95                 | 2,747.16                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,008.57                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,516.19                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 8,226.37                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 10,900.11                 |                         |
| 40 05 19 00-0475 | EA  | 36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 41,321.93                 | 2,752.08                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,086.73                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,622.85                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 8,385.00                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 11,109.99                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>40 05 19 00-0476      42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b> |                           |                         |
| 40 05 19 00-0477      EA    42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 19,399.93                 | 3,239.49                |
| For Class 52 Rating, Deduct   | -1,594.08                 |                         |
| For Class 54 Rating, Add  | 2,232.64                  |                         |
| For Class 55 Rating, Add  | 3,349.43                  |                         |
| For Class 56 Rating, Add  | 4,451.73                  |                         |
| 40 05 19 00-0478      EA    42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 20,468.95                 | 3,244.40                |
| For Class 52 Rating, Deduct   | -1,710.85                 |                         |
| For Class 54 Rating, Add  | 2,391.97                  |                         |
| For Class 55 Rating, Add  | 3,586.34                  |                         |
| For Class 56 Rating, Add  | 4,765.16                  |                         |
| 40 05 19 00-0479      EA    42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 21,525.27                 | 3,249.33                |
| For Class 52 Rating, Deduct   | -1,826.22                 |                         |
| For Class 54 Rating, Add  | 2,549.38                  |                         |
| For Class 55 Rating, Add  | 3,820.41                  |                         |
| For Class 56 Rating, Add  | 5,074.84                  |                         |
| 40 05 19 00-0480      EA    42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 22,592.15                 | 3,254.25                |
| For Class 52 Rating, Deduct   | -1,942.76                 |                         |
| For Class 54 Rating, Add  | 2,708.39                  |                         |
| For Class 55 Rating, Add  | 4,056.84                  |                         |
| For Class 56 Rating, Add  | 5,387.64                  |                         |
| 40 05 19 00-0481      EA    42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 23,648.48                 | 3,259.18                |
| For Class 52 Rating, Deduct   | -2,058.14                 |                         |
| For Class 54 Rating, Add  | 2,865.81                  |                         |
| For Class 55 Rating, Add  | 4,290.92                  |                         |
| For Class 56 Rating, Add  | 5,697.32                  |                         |
| 40 05 19 00-0482      EA    42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 24,717.48                 | 3,264.09                |
| For Class 52 Rating, Deduct   | -2,174.91                 |                         |
| For Class 54 Rating, Add  | 3,025.13                  |                         |
| For Class 55 Rating, Add  | 4,527.82                  |                         |
| For Class 56 Rating, Add  | 6,010.75                  |                         |
| 40 05 19 00-0483      EA    42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 25,771.69                 | 3,269.02                |
| For Class 52 Rating, Deduct   | -2,290.05                 |                         |
| For Class 54 Rating, Add  | 3,182.23                  |                         |
| For Class 55 Rating, Add  | 4,761.43                  |                         |
| For Class 56 Rating, Add  | 6,319.81                  |                         |
| 40 05 19 00-0484      EA    42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 26,840.70                 | 3,273.95                |
| For Class 52 Rating, Deduct   | -2,406.82                 |                         |
| For Class 54 Rating, Add  | 3,341.55                  |                         |
| For Class 55 Rating, Add  | 4,998.33                  |                         |
| For Class 56 Rating, Add  | 6,633.23                  |                         |
| 40 05 19 00-0485      EA    42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 27,897.02                 | 3,278.86                |
| For Class 52 Rating, Deduct   | -2,522.19                 |                         |
| For Class 54 Rating, Add  | 3,498.97                  |                         |
| For Class 55 Rating, Add  | 5,232.41                  |                         |
| For Class 56 Rating, Add  | 6,942.91                  |                         |
| 40 05 19 00-0486      EA    42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 28,963.92                 | 3,283.79                |
| For Class 52 Rating, Deduct   | -2,638.73                 |                         |
| For Class 54 Rating, Add  | 3,657.98                  |                         |
| For Class 55 Rating, Add  | 5,468.84                  |                         |
| For Class 56 Rating, Add  | 7,255.72                  |                         |
| 40 05 19 00-0487      EA    42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 30,020.24                 | 3,288.71                |
| For Class 52 Rating, Deduct   | -2,754.11                 |                         |
| For Class 54 Rating, Add  | 3,815.40                  |                         |
| For Class 55 Rating, Add  | 5,702.92                  |                         |
| For Class 56 Rating, Add  | 7,565.40                  |                         |
| 40 05 19 00-0488      EA    42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 31,087.13                 | 3,293.64                |
| For Class 52 Rating, Deduct   | -2,870.64                 |                         |
| For Class 54 Rating, Add  | 3,974.40                  |                         |
| For Class 55 Rating, Add  | 5,939.35                  |                         |
| For Class 56 Rating, Add  | 7,878.20                  |                         |
| 40 05 19 00-0489      EA    42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 32,143.45                 | 3,298.56                |
| For Class 52 Rating, Deduct   | -2,986.02                 |                         |
| For Class 54 Rating, Add  | 4,131.82                  |                         |
| For Class 55 Rating, Add  | 6,173.42                  |                         |
| For Class 56 Rating, Add  | 8,187.88                  |                         |
| 40 05 19 00-0490      EA    42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 33,201.89                 | 3,303.48                |
| For Class 52 Rating, Deduct   | -3,101.63                 |                         |
| For Class 54 Rating, Add  | 4,289.55                  |                         |
| For Class 55 Rating, Add  | 6,407.97                  |                         |
| For Class 56 Rating, Add  | 8,498.19                  |                         |
| 40 05 19 00-0491      EA    42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 34,266.66                 | 3,308.41                |
| For Class 52 Rating, Deduct   | -3,217.93                 |                         |
| For Class 54 Rating, Add  | 4,448.24                  |                         |
| For Class 55 Rating, Add  | 6,643.93                  |                         |
| For Class 56 Rating, Add  | 8,810.37                  |                         |
| 40 05 19 00-0492      EA    42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                  | 35,322.99                 | 3,313.33                |
| For Class 52 Rating, Deduct   | -3,333.31                 |                         |
| For Class 54 Rating, Add  | 4,605.66                  |                         |
| For Class 55 Rating, Add  | 6,878.01                  |                         |
| For Class 56 Rating, Add  | 9,120.05                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0493 | EA  |     | 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 36,391.99                 | 3,318.25                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,450.08                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,764.98                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,114.91                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,433.48                  |                         |
| 40 05 19 00-0494 | EA  |     | 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 37,448.32                 | 3,323.18                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,565.45                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,922.40                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,348.99                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,743.16                  |                         |
| 40 05 19 00-0495 | EA  |     | 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 38,515.22                 | 3,328.10                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,681.99                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,081.41                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,585.42                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 10,055.96                 |                         |
| 40 05 19 00-0496 | EA  |     | 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 39,571.53                 | 3,333.02                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,797.37                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,238.83                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,819.50                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 10,365.64                 |                         |
| 40 05 19 00-0497 | EA  |     | 42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 40,640.55                 | 3,337.94                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,914.14                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,398.15                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 8,056.40                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 10,679.07                 |                         |
| 40 05 19 00-0498 | EA  |     | 42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 41,696.86                 | 3,342.87                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,029.51                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,555.57                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 8,290.47                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 10,988.75                 |                         |
| 40 05 19 00-0499 | EA  |     | 42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 42,763.75                 | 3,347.80                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,146.05                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,714.57                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 8,526.91                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 11,301.55                 |                         |
| 40 05 19 00-0500 | EA  |     | 42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 43,820.07                 | 3,352.71                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,261.42                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,871.99                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 8,760.98                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 11,611.23                 |                         |
| 40 05 19 00-0501 | EA  |     | 42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 44,889.08                 | 3,357.64                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,378.19                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,031.31                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 8,997.89                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 11,924.66                 |                         |
| 40 05 19 00-0502 | EA  |     | 42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 45,945.42                 | 3,362.56                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,493.57                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,188.73                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 9,231.96                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 12,234.35                 |                         |
| 40 05 19 00-0503 | EA  |     | 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 47,010.19                 | 3,367.49                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,609.87                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,347.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 9,467.92                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 12,546.52                 |                         |
| 40 05 19 00-0504 | EA  |     | 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 48,068.62                 | 3,372.41                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,725.48                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,505.15                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 9,702.47                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 12,856.83                 |                         |
| 40 05 19 00-0505 | EA  |     | 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 48,913.48                 | 3,377.33                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,817.59                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,630.85                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 9,889.39                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 13,104.13                 |                         |
| 40 05 19 00-0506 | EA  |     | 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 50,191.84                 | 3,382.26                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,957.39                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,821.58                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,172.98                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 13,479.31                 |                         |
| 40 05 19 00-0507 | EA  |     | 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 51,248.15                 | 3,387.17                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,072.77                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,979.00                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,407.05                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 13,789.00                 |                         |
| 40 05 19 00-0508 | EA  |     | 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 52,315.05                 | 3,392.10                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,189.31                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 7,138.00                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,643.49                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 14,101.80                 |                         |
| 40 05 19 00-0509 | EA  |     | 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 53,371.37                 | 3,397.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,304.68                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 7,295.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,877.56                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 14,411.48                 |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 54,440.38                 | 3,401.95                |
| <i>For Class 52 Rating, Deduct</i>   | -5,421.45                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,454.74                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,114.47                 |                         |
| <i>For Class 56 Rating, Add</i>  | 14,724.90                 |                         |
| 40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 55,494.59                 | 3,406.87                |
| <i>For Class 52 Rating, Deduct</i>   | -5,536.59                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,611.84                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,348.07                 |                         |
| <i>For Class 56 Rating, Add</i>  | 15,033.96                 |                         |
| 40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 56,563.59                 | 3,411.79                |
| <i>For Class 52 Rating, Deduct</i>   | -5,653.36                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,771.16                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,584.97                 |                         |
| <i>For Class 56 Rating, Add</i>  | 15,347.39                 |                         |
| 40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 57,619.92                 | 3,416.72                |
| <i>For Class 52 Rating, Deduct</i>   | -5,768.74                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,928.58                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,819.05                 |                         |
| <i>For Class 56 Rating, Add</i>  | 15,657.07                 |                         |
| 40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 58,686.81                 | 3,421.64                |
| <i>For Class 52 Rating, Deduct</i>   | -5,885.28                 |                         |
| <i>For Class 54 Rating, Add</i>  | 8,087.59                  |                         |
| <i>For Class 55 Rating, Add</i>  | 12,055.48                 |                         |
| <i>For Class 56 Rating, Add</i>  | 15,969.88                 |                         |
| <b>40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,<br/>Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b> |                           |                         |
| 40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 24,337.94                 | 4,071.51                |
| <i>For Class 52 Rating, Deduct</i>   | -1,998.59                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,799.38                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,199.74                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,581.93                  |                         |
| 40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 25,891.20                 | 4,076.43                |
| <i>For Class 52 Rating, Deduct</i>   | -2,168.63                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,031.34                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,544.63                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,038.21                  |                         |
| 40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 27,442.35                 | 4,081.35                |
| <i>For Class 52 Rating, Deduct</i>   | -2,338.43                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,262.98                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,889.05                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,493.87                  |                         |
| 40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 29,006.18                 | 4,086.28                |
| <i>For Class 52 Rating, Deduct</i>   | -2,509.63                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,496.52                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,236.30                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,953.27                  |                         |
| 40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 30,559.43                 | 4,091.20                |
| <i>For Class 52 Rating, Deduct</i>   | -2,679.67                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,728.48                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,581.20                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,409.55                  |                         |
| 40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 32,112.70                 | 4,096.12                |
| <i>For Class 52 Rating, Deduct</i>   | -2,849.71                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,960.44                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,926.09                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,865.83                  |                         |
| 40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 33,674.42                 | 4,101.04                |
| <i>For Class 52 Rating, Deduct</i>   | -3,020.68                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,193.67                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,272.87                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,324.61                  |                         |
| 40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 35,229.80                 | 4,105.97                |
| <i>For Class 52 Rating, Deduct</i>   | -3,190.95                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,425.95                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,618.23                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,781.51                  |                         |
| 40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 36,780.95                 | 4,110.90                |
| <i>For Class 52 Rating, Deduct</i>   | -3,360.76                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,657.59                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,962.65                  |                         |
| <i>For Class 56 Rating, Add</i>  | 9,237.17                  |                         |
| 40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 38,344.77                 | 4,115.81                |
| <i>For Class 52 Rating, Deduct</i>   | -3,531.96                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,891.14                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,309.90                  |                         |
| <i>For Class 56 Rating, Add</i>  | 9,696.56                  |                         |
| 40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                     | 39,898.05                 | 4,120.74                |
| <i>For Class 52 Rating, Deduct</i>   | -3,702.00                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,123.10                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,654.80                  |                         |
| <i>For Class 56 Rating, Add</i>  | 10,152.85                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0527 | EA  | 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 41,461.87                 | 4,125.66                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -3,873.20                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,356.64                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 8,002.05                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 10,612.24                 |                         |
| 40 05 19 00-0528 | EA  | 48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 43,013.02                 | 4,130.59                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,043.00                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,588.29                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 8,346.47                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 11,067.90                 |                         |
| 40 05 19 00-0529 | EA  | 48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 44,566.28                 | 4,135.51                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,213.04                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 5,820.25                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 8,691.36                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 11,524.18                 |                         |
| 40 05 19 00-0530 | EA  | 48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 46,130.11                 | 4,140.43                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,384.24                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 6,053.79                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 9,038.61                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 11,983.58                 |                         |
| 40 05 19 00-0531 | EA  | 48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 47,683.38                 | 4,145.36                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,554.28                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 6,285.75                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 9,383.51                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 12,439.86                 |                         |
| 40 05 19 00-0532 | EA  | 48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 49,234.52                 | 4,150.27                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,724.08                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 6,517.39                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 9,727.93                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 12,895.51                 |                         |
| 40 05 19 00-0533 | EA  | 48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 50,798.36                 | 4,155.20                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -4,895.29                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 6,750.94                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 10,075.18                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 13,354.91                 |                         |
| 40 05 19 00-0534 | EA  | 48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 52,351.62                 | 4,160.13                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -5,065.32                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 6,982.90                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 10,420.07                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 13,811.19                 |                         |
| 40 05 19 00-0535 | EA  | 48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 53,902.77                 | 4,165.05                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -5,235.13                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 7,214.54                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 10,764.49                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 14,266.85                 |                         |
| 40 05 19 00-0536 | EA  | 48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 55,466.59                 | 4,169.97                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -5,406.33                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 7,448.09                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 11,111.74                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 14,726.25                 |                         |
| 40 05 19 00-0537 | EA  | 48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 57,021.98                 | 4,174.89                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -5,576.60                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 7,680.36                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 11,457.11                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 15,183.15                 |                         |
| 40 05 19 00-0538 | EA  | 48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 58,573.12                 | 4,179.82                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -5,746.41                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 7,912.01                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 11,801.53                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 15,638.81                 |                         |
| 40 05 19 00-0539 | EA  | 48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 60,136.96                 | 4,184.74                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -5,917.61                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 8,145.55                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 12,148.78                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 16,098.21                 |                         |
| 40 05 19 00-0540 | EA  | 48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 61,690.22                 | 4,189.66                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -6,087.65                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 8,377.51                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 12,493.67                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 16,554.49                 |                         |
| 40 05 19 00-0541 | EA  | 48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 63,241.36                 | 4,194.59                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -6,257.45                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 8,609.15                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 12,838.09                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 17,010.14                 |                         |
| 40 05 19 00-0542 | EA  | 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 64,805.21                 | 4,199.51                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -6,428.65                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 8,842.70                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 13,185.34                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 17,469.55                 |                         |
| 40 05 19 00-0543 | EA  | 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 66,358.46                 | 4,204.43                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -6,598.69                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 9,074.66                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 13,530.24                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 17,925.83                 |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 67,721.40                 | 4,209.35                |
| <i>For Class 52 Rating, Deduct</i>  | -6,747.79                 |                         |
| <i>For Class 54 Rating, Add</i>   | 9,278.07                  |                         |
| <i>For Class 55 Rating, Add</i>   | 13,832.69                 |                         |
| <i>For Class 56 Rating, Add</i>   | 18,325.96                 |                         |
| 40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 69,475.55                 | 4,214.28                |
| <i>For Class 52 Rating, Deduct</i>  | -6,939.93                 |                         |
| <i>For Class 54 Rating, Add</i>   | 9,540.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 14,222.38                 |                         |
| <i>For Class 56 Rating, Add</i>   | 18,841.50                 |                         |
| 40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 71,026.70                 | 4,219.21                |
| <i>For Class 52 Rating, Deduct</i>  | -7,109.74                 |                         |
| <i>For Class 54 Rating, Add</i>   | 9,771.81                  |                         |
| <i>For Class 55 Rating, Add</i>   | 14,566.80                 |                         |
| <i>For Class 56 Rating, Add</i>   | 19,297.16                 |                         |
| 40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 72,592.66                 | 4,224.12                |
| <i>For Class 52 Rating, Deduct</i>  | -7,281.17                 |                         |
| <i>For Class 54 Rating, Add</i>   | 10,005.67                 |                         |
| <i>For Class 55 Rating, Add</i>   | 14,914.52                 |                         |
| <i>For Class 56 Rating, Add</i>   | 19,757.18                 |                         |
| 40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 74,143.80                 | 4,229.05                |
| <i>For Class 52 Rating, Deduct</i>  | -7,450.98                 |                         |
| <i>For Class 54 Rating, Add</i>   | 10,237.31                 |                         |
| <i>For Class 55 Rating, Add</i>   | 15,258.95                 |                         |
| <i>For Class 56 Rating, Add</i>   | 20,212.84                 |                         |
| 40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 75,694.95                 | 4,233.97                |
| <i>For Class 52 Rating, Deduct</i>  | -7,620.78                 |                         |
| <i>For Class 54 Rating, Add</i>   | 10,468.96                 |                         |
| <i>For Class 55 Rating, Add</i>   | 15,603.37                 |                         |
| <i>For Class 56 Rating, Add</i>   | 20,668.50                 |                         |
| 40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 77,260.90                 | 4,238.90                |
| <i>For Class 52 Rating, Deduct</i>  | -7,792.22                 |                         |
| <i>For Class 54 Rating, Add</i>   | 10,702.82                 |                         |
| <i>For Class 55 Rating, Add</i>   | 15,951.09                 |                         |
| <i>For Class 56 Rating, Add</i>   | 21,128.52                 |                         |
| 40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 78,812.04                 | 4,243.82                |
| <i>For Class 52 Rating, Deduct</i>  | -7,962.02                 |                         |
| <i>For Class 54 Rating, Add</i>   | 10,934.46                 |                         |
| <i>For Class 55 Rating, Add</i>   | 16,295.51                 |                         |
| <i>For Class 56 Rating, Add</i>   | 21,584.17                 |                         |
| 40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 80,365.29                 | 4,248.74                |
| <i>For Class 52 Rating, Deduct</i>  | -8,132.06                 |                         |
| <i>For Class 54 Rating, Add</i>   | 11,166.42                 |                         |
| <i>For Class 55 Rating, Add</i>   | 16,640.40                 |                         |
| <i>For Class 56 Rating, Add</i>   | 22,040.45                 |                         |
| 40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                             | 81,929.14                 | 4,253.67                |
| <i>For Class 52 Rating, Deduct</i>  | -8,303.26                 |                         |
| <i>For Class 54 Rating, Add</i>   | 11,399.97                 |                         |
| <i>For Class 55 Rating, Add</i>   | 16,987.65                 |                         |
| <i>For Class 56 Rating, Add</i>   | 22,499.85                 |                         |
| <br>40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat,<br>Ductile Iron Pipe <small>(40 05 19 00-0001)</small>              |                           |                         |
| <br>40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous<br>Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small> |                           |                         |
| 40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....                  | 700.84                    | 225.29                  |
| <i>For Class 52 Rating, Deduct</i>  | -39.54                    |                         |
| <i>For Class 54 Rating, Add</i>   | 58.02                     |                         |
| <i>For Class 55 Rating, Add</i>   | 88.36                     |                         |
| <i>For Class 56 Rating, Add</i>   | 118.34                    |                         |
| 40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....                  | 761.78                    | 229.23                  |
| <i>For Class 52 Rating, Deduct</i>  | -45.59                    |                         |
| <i>For Class 54 Rating, Add</i>   | 66.34                     |                         |
| <i>For Class 55 Rating, Add</i>   | 100.76                    |                         |
| <i>For Class 56 Rating, Add</i>   | 134.77                    |                         |
| 40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....                  | 822.73                    | 233.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -51.64                    |                         |
| <i>For Class 54 Rating, Add</i>   | 74.66                     |                         |
| <i>For Class 55 Rating, Add</i>   | 113.17                    |                         |
| <i>For Class 56 Rating, Add</i>   | 151.21                    |                         |
| 40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....                  | 883.68                    | 237.11                  |
| <i>For Class 52 Rating, Deduct</i>  | -57.69                    |                         |
| <i>For Class 54 Rating, Add</i>   | 82.98                     |                         |
| <i>For Class 55 Rating, Add</i>   | 125.57                    |                         |
| <i>For Class 56 Rating, Add</i>   | 167.64                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0560 | EA  |     | 4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 944.62                    | 241.04                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -63.74                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 91.29                     |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 137.97                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 184.07                    |                         |
| 40 05 19 00-0561 | EA  |     | 4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,005.57                  | 244.98                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -69.78                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 99.61                     |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 150.38                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 200.51                    |                         |
| 40 05 19 00-0562 | EA  |     | 4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,066.52                  | 248.92                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -75.83                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 107.93                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 162.78                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 216.94                    |                         |
| 40 05 19 00-0563 | EA  |     | 4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,127.46                  | 252.86                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -81.88                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 116.25                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 175.18                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 233.38                    |                         |
| 40 05 19 00-0564 | EA  |     | 4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,188.41                  | 256.80                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -87.93                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 124.57                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 187.59                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 249.81                    |                         |
| 40 05 19 00-0565 | EA  |     | 4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,249.36                  | 260.74                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -93.97                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 132.89                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 199.99                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 266.24                    |                         |
| 40 05 19 00-0566 | EA  |     | 4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,310.32                  | 264.67                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -100.02                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 141.21                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 212.40                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 282.68                    |                         |
| 40 05 19 00-0567 | EA  |     | 4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,371.26                  | 268.61                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -106.07                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 149.53                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 224.80                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 299.11                    |                         |
| 40 05 19 00-0568 | EA  |     | 4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,432.21                  | 272.56                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -112.12                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 157.84                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 237.21                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 315.55                    |                         |
| 40 05 19 00-0569 | EA  |     | 4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,493.16                  | 276.49                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -118.17                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 166.16                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 249.61                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 331.98                    |                         |
| 40 05 19 00-0570 | EA  |     | 4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,554.11                  | 280.43                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -124.21                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 174.48                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 262.01                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 348.42                    |                         |
| 40 05 19 00-0571 | EA  |     | 4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,615.06                  | 284.37                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -130.26                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 182.80                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 274.42                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 364.85                    |                         |
| 40 05 19 00-0572 | EA  |     | 4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,676.01                  | 288.30                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -136.31                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 191.12                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 286.82                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 381.28                    |                         |
| 40 05 19 00-0573 | EA  |     | 4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,736.95                  | 292.24                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -142.36                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 199.44                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 299.22                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 397.72                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0574 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,797.90                  | 296.19                  |
| <i>For Class 52 Rating, Deduct</i>   | -148.41                   |                         |
| <i>For Class 54 Rating, Add</i>  | 207.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 311.63                    |                         |
| <i>For Class 56 Rating, Add</i>  | 414.15                    |                         |
| 40 05 19 00-0575 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,858.85                  | 300.12                  |
| <i>For Class 52 Rating, Deduct</i>   | -154.45                   |                         |
| <i>For Class 54 Rating, Add</i>  | 216.07                    |                         |
| <i>For Class 55 Rating, Add</i>  | 324.03                    |                         |
| <i>For Class 56 Rating, Add</i>  | 430.59                    |                         |
| 40 05 19 00-0576 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,919.80                  | 304.06                  |
| <i>For Class 52 Rating, Deduct</i>   | -160.50                   |                         |
| <i>For Class 54 Rating, Add</i>  | 224.39                    |                         |
| <i>For Class 55 Rating, Add</i>  | 336.44                    |                         |
| <i>For Class 56 Rating, Add</i>  | 447.02                    |                         |
| 40 05 19 00-0577 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,980.74                  | 308.00                  |
| <i>For Class 52 Rating, Deduct</i>   | -166.55                   |                         |
| <i>For Class 54 Rating, Add</i>  | 232.71                    |                         |
| <i>For Class 55 Rating, Add</i>  | 348.84                    |                         |
| <i>For Class 56 Rating, Add</i>  | 463.45                    |                         |
| 40 05 19 00-0578 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,041.69                  | 311.93                  |
| <i>For Class 52 Rating, Deduct</i>   | -172.60                   |                         |
| <i>For Class 54 Rating, Add</i>  | 241.03                    |                         |
| <i>For Class 55 Rating, Add</i>  | 361.24                    |                         |
| <i>For Class 56 Rating, Add</i>  | 479.89                    |                         |
| 40 05 19 00-0579 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,102.64                  | 315.88                  |
| <i>For Class 52 Rating, Deduct</i>   | -178.64                   |                         |
| <i>For Class 54 Rating, Add</i>  | 249.35                    |                         |
| <i>For Class 55 Rating, Add</i>  | 373.65                    |                         |
| <i>For Class 56 Rating, Add</i>  | 496.32                    |                         |
| 40 05 19 00-0580 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,163.58                  | 319.82                  |
| <i>For Class 52 Rating, Deduct</i>   | -184.69                   |                         |
| <i>For Class 54 Rating, Add</i>  | 257.67                    |                         |
| <i>For Class 55 Rating, Add</i>  | 386.05                    |                         |
| <i>For Class 56 Rating, Add</i>  | 512.76                    |                         |
| 40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,224.53                  | 323.75                  |
| <i>For Class 52 Rating, Deduct</i>   | -190.74                   |                         |
| <i>For Class 54 Rating, Add</i>  | 265.99                    |                         |
| <i>For Class 55 Rating, Add</i>  | 398.45                    |                         |
| <i>For Class 56 Rating, Add</i>  | 529.19                    |                         |
| 40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,285.49                  | 327.69                  |
| <i>For Class 52 Rating, Deduct</i>   | -196.79                   |                         |
| <i>For Class 54 Rating, Add</i>  | 274.31                    |                         |
| <i>For Class 55 Rating, Add</i>  | 410.86                    |                         |
| <i>For Class 56 Rating, Add</i>  | 545.63                    |                         |
| 40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,346.43                  | 331.63                  |
| <i>For Class 52 Rating, Deduct</i>   | -202.84                   |                         |
| <i>For Class 54 Rating, Add</i>  | 282.63                    |                         |
| <i>For Class 55 Rating, Add</i>  | 423.26                    |                         |
| <i>For Class 56 Rating, Add</i>  | 562.06                    |                         |
| 40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,407.38                  | 335.57                  |
| <i>For Class 52 Rating, Deduct</i>   | -208.88                   |                         |
| <i>For Class 54 Rating, Add</i>  | 290.94                    |                         |
| <i>For Class 55 Rating, Add</i>  | 435.67                    |                         |
| <i>For Class 56 Rating, Add</i>  | 578.49                    |                         |
| 40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,468.33                  | 339.51                  |
| <i>For Class 52 Rating, Deduct</i>   | -214.93                   |                         |
| <i>For Class 54 Rating, Add</i>  | 299.26                    |                         |
| <i>For Class 55 Rating, Add</i>  | 448.07                    |                         |
| <i>For Class 56 Rating, Add</i>  | 594.93                    |                         |
| 40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,529.28                  | 343.45                  |
| <i>For Class 52 Rating, Deduct</i>   | -220.98                   |                         |
| <i>For Class 54 Rating, Add</i>  | 307.58                    |                         |
| <i>For Class 55 Rating, Add</i>  | 460.48                    |                         |
| <i>For Class 56 Rating, Add</i>  | 611.36                    |                         |
| 40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,590.22                  | 347.39                  |
| <i>For Class 52 Rating, Deduct</i>   | -227.03                   |                         |
| <i>For Class 54 Rating, Add</i>  | 315.90                    |                         |
| <i>For Class 55 Rating, Add</i>  | 472.88                    |                         |
| <i>For Class 56 Rating, Add</i>  | 627.80                    |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0588        | EA  |     | 4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 2,651.18               | 351.32               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -233.08                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 324.22                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 485.28                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 644.23                 |                      |
| 40 05 19 00-0589        | EA  |     | 4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 2,712.13               | 355.26               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -239.12                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 332.54                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 497.69                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 660.66                 |                      |
| 40 05 19 00-0590        | EA  |     | 4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 2,773.07               | 359.21               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -245.17                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 340.86                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 510.09                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 677.10                 |                      |
| 40 05 19 00-0591        | EA  |     | 4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 2,834.02               | 363.14               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -251.22                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 349.17                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 522.49                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 693.53                 |                      |
| 40 05 19 00-0592        | EA  |     | 4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 2,894.97               | 367.08               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -257.27                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 357.49                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 534.90                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 709.97                 |                      |
| 40 05 19 00-0593        | EA  |     | 4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 2,955.91               | 371.02               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -263.31                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 365.81                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 547.30                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 726.40                 |                      |
| 40 05 19 00-0594        | EA  |     | 4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 3,016.86               | 374.95               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -269.36                |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 374.13                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 559.71                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 742.83                 |                      |
| <b>40 05 19 00-0595</b> |     |     | <b>6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0594)</small> |                        |                      |
| 40 05 19 00-0596        | EA  |     | 6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 875.86                 | 283.58               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -49.08                 |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 72.08                  |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 109.81                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 147.09                 |                      |
| 40 05 19 00-0597        | EA  |     | 6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 949.49                 | 287.51               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -56.52                 |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 82.31                  |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 125.05                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 167.27                 |                      |
| 40 05 19 00-0598        | EA  |     | 6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 1,023.13               | 291.46               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -63.97                 |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 92.53                  |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 140.28                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 187.45                 |                      |
| 40 05 19 00-0599        | EA  |     | 6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 1,096.76               | 295.40               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -71.41                 |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 102.75                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 155.51                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 207.62                 |                      |
| 40 05 19 00-0600        | EA  |     | 6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 1,170.39               | 299.33               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -78.85                 |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 112.97                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 170.74                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 227.80                 |                      |
| 40 05 19 00-0601        | EA  |     | 6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 1,244.03               | 303.27               |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -86.30                 |                      |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 123.19                 |                      |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 185.98                 |                      |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 247.98                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0602 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,317.67                  | 307.21                  |
| <i>For Class 52 Rating, Deduct</i>   | -93.74                    |                         |
| <i>For Class 54 Rating, Add</i>  | 133.42                    |                         |
| <i>For Class 55 Rating, Add</i>  | 201.21                    |                         |
| <i>For Class 56 Rating, Add</i>  | 268.16                    |                         |
| 40 05 19 00-0603 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,391.30                  | 311.14                  |
| <i>For Class 52 Rating, Deduct</i>   | -101.19                   |                         |
| <i>For Class 54 Rating, Add</i>  | 143.64                    |                         |
| <i>For Class 55 Rating, Add</i>  | 216.45                    |                         |
| <i>For Class 56 Rating, Add</i>  | 288.33                    |                         |
| 40 05 19 00-0604 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,464.94                  | 315.09                  |
| <i>For Class 52 Rating, Deduct</i>   | -108.63                   |                         |
| <i>For Class 54 Rating, Add</i>  | 153.86                    |                         |
| <i>For Class 55 Rating, Add</i>  | 231.68                    |                         |
| <i>For Class 56 Rating, Add</i>  | 308.51                    |                         |
| 40 05 19 00-0605 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,538.58                  | 319.03                  |
| <i>For Class 52 Rating, Deduct</i>   | -116.07                   |                         |
| <i>For Class 54 Rating, Add</i>  | 164.08                    |                         |
| <i>For Class 55 Rating, Add</i>  | 246.91                    |                         |
| <i>For Class 56 Rating, Add</i>  | 328.69                    |                         |
| 40 05 19 00-0606 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,612.21                  | 322.96                  |
| <i>For Class 52 Rating, Deduct</i>   | -123.52                   |                         |
| <i>For Class 54 Rating, Add</i>  | 174.30                    |                         |
| <i>For Class 55 Rating, Add</i>  | 262.14                    |                         |
| <i>For Class 56 Rating, Add</i>  | 348.86                    |                         |
| 40 05 19 00-0607 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,685.84                  | 326.90                  |
| <i>For Class 52 Rating, Deduct</i>   | -130.96                   |                         |
| <i>For Class 54 Rating, Add</i>  | 184.52                    |                         |
| <i>For Class 55 Rating, Add</i>  | 277.38                    |                         |
| <i>For Class 56 Rating, Add</i>  | 369.04                    |                         |
| 40 05 19 00-0608 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,759.48                  | 330.84                  |
| <i>For Class 52 Rating, Deduct</i>   | -138.40                   |                         |
| <i>For Class 54 Rating, Add</i>  | 194.75                    |                         |
| <i>For Class 55 Rating, Add</i>  | 292.61                    |                         |
| <i>For Class 56 Rating, Add</i>  | 389.22                    |                         |
| 40 05 19 00-0609 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,833.12                  | 334.78                  |
| <i>For Class 52 Rating, Deduct</i>   | -145.85                   |                         |
| <i>For Class 54 Rating, Add</i>  | 204.97                    |                         |
| <i>For Class 55 Rating, Add</i>  | 307.85                    |                         |
| <i>For Class 56 Rating, Add</i>  | 409.40                    |                         |
| 40 05 19 00-0610 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,906.76                  | 338.72                  |
| <i>For Class 52 Rating, Deduct</i>   | -153.29                   |                         |
| <i>For Class 54 Rating, Add</i>  | 215.19                    |                         |
| <i>For Class 55 Rating, Add</i>  | 323.08                    |                         |
| <i>For Class 56 Rating, Add</i>  | 429.57                    |                         |
| 40 05 19 00-0611 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,980.40                  | 342.66                  |
| <i>For Class 52 Rating, Deduct</i>   | -160.73                   |                         |
| <i>For Class 54 Rating, Add</i>  | 225.41                    |                         |
| <i>For Class 55 Rating, Add</i>  | 338.31                    |                         |
| <i>For Class 56 Rating, Add</i>  | 449.75                    |                         |
| 40 05 19 00-0612 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,054.03                  | 346.59                  |
| <i>For Class 52 Rating, Deduct</i>   | -168.18                   |                         |
| <i>For Class 54 Rating, Add</i>  | 235.63                    |                         |
| <i>For Class 55 Rating, Add</i>  | 353.54                    |                         |
| <i>For Class 56 Rating, Add</i>  | 469.93                    |                         |
| 40 05 19 00-0613 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,127.66                  | 350.53                  |
| <i>For Class 52 Rating, Deduct</i>   | -175.62                   |                         |
| <i>For Class 54 Rating, Add</i>  | 245.86                    |                         |
| <i>For Class 55 Rating, Add</i>  | 368.78                    |                         |
| <i>For Class 56 Rating, Add</i>  | 490.10                    |                         |
| 40 05 19 00-0614 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,201.30                  | 354.47                  |
| <i>For Class 52 Rating, Deduct</i>   | -183.06                   |                         |
| <i>For Class 54 Rating, Add</i>  | 256.08                    |                         |
| <i>For Class 55 Rating, Add</i>  | 384.01                    |                         |
| <i>For Class 56 Rating, Add</i>  | 510.28                    |                         |
| 40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,274.94                  | 358.41                  |
| <i>For Class 52 Rating, Deduct</i>   | -190.51                   |                         |
| <i>For Class 54 Rating, Add</i>  | 266.30                    |                         |
| <i>For Class 55 Rating, Add</i>  | 399.24                    |                         |
| <i>For Class 56 Rating, Add</i>  | 530.46                    |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0616 | EA  |     | 6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,348.58               | 362.35               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -197.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 276.52                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 414.48                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 550.63                 |                      |
| 40 05 19 00-0617 | EA  |     | 6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,422.21               | 366.29               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -205.40                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 286.74                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 429.71                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 570.81                 |                      |
| 40 05 19 00-0618 | EA  |     | 6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,495.85               | 370.22               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -212.84                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 296.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 444.95                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 590.99                 |                      |
| 40 05 19 00-0619 | EA  |     | 6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,569.48               | 374.16               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -220.28                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 307.19                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 460.18                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 611.16                 |                      |
| 40 05 19 00-0620 | EA  |     | 6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,643.11               | 378.11               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -227.73                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 317.41                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 475.41                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 631.34                 |                      |
| 40 05 19 00-0621 | EA  |     | 6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,716.75               | 382.04               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -235.17                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 327.63                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 490.64                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 651.52                 |                      |
| 40 05 19 00-0622 | EA  |     | 6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,790.39               | 385.98               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -242.61                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 337.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 505.88                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 671.70                 |                      |
| 40 05 19 00-0623 | EA  |     | 6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,864.02               | 389.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -250.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 348.08                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 521.11                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 691.87                 |                      |
| 40 05 19 00-0624 | EA  |     | 6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,937.66               | 393.85               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -257.50                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 358.30                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 536.34                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 712.05                 |                      |
| 40 05 19 00-0625 | EA  |     | 6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,011.30               | 397.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -264.94                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 368.52                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 551.58                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 732.23                 |                      |
| 40 05 19 00-0626 | EA  |     | 6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,084.93               | 401.74               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -272.39                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 378.74                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 566.81                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 752.40                 |                      |
| 40 05 19 00-0627 | EA  |     | 6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,158.56               | 405.67               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -279.83                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 388.96                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 582.04                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 772.58                 |                      |
| 40 05 19 00-0628 | EA  |     | 6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,232.20               | 409.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -287.27                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 399.18                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 597.28                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 792.76                 |                      |
| 40 05 19 00-0629 | EA  |     | 6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,305.85               | 413.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -294.72                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 409.41                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 612.51                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 812.94                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,379.48                  | 417.49                  |
| For Class 52 Rating, Deduct   | -302.16                   |                         |
| For Class 54 Rating, Add  | 419.63                    |                         |
| For Class 55 Rating, Add  | 627.74                    |                         |
| For Class 56 Rating, Add  | 833.11                    |                         |
| 40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,453.12                  | 421.43                  |
| For Class 52 Rating, Deduct   | -309.60                   |                         |
| For Class 54 Rating, Add  | 429.85                    |                         |
| For Class 55 Rating, Add  | 642.98                    |                         |
| For Class 56 Rating, Add  | 853.29                    |                         |
| 40 05 19 00-0632 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,526.75                  | 425.37                  |
| For Class 52 Rating, Deduct   | -317.05                   |                         |
| For Class 54 Rating, Add  | 440.07                    |                         |
| For Class 55 Rating, Add  | 658.21                    |                         |
| For Class 56 Rating, Add  | 873.47                    |                         |
| 40 05 19 00-0633 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,600.38                  | 429.31                  |
| For Class 52 Rating, Deduct   | -324.49                   |                         |
| For Class 54 Rating, Add  | 450.29                    |                         |
| For Class 55 Rating, Add  | 673.44                    |                         |
| For Class 56 Rating, Add  | 893.64                    |                         |
| 40 05 19 00-0634 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,674.02                  | 433.24                  |
| For Class 52 Rating, Deduct   | -331.93                   |                         |
| For Class 54 Rating, Add  | 460.52                    |                         |
| For Class 55 Rating, Add  | 688.68                    |                         |
| For Class 56 Rating, Add  | 913.82                    |                         |
| <b>40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small></b> |                           |                         |
| 40 05 19 00-0636 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,200.33                  | 362.35                  |
| For Class 52 Rating, Deduct   | -71.64                    |                         |
| For Class 54 Rating, Add  | 104.28                    |                         |
| For Class 55 Rating, Add  | 158.42                    |                         |
| For Class 56 Rating, Add  | 211.90                    |                         |
| 40 05 19 00-0637 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,299.33                  | 366.29                  |
| For Class 52 Rating, Deduct   | -81.88                    |                         |
| For Class 54 Rating, Add  | 118.31                    |                         |
| For Class 55 Rating, Add  | 179.31                    |                         |
| For Class 56 Rating, Add  | 239.56                    |                         |
| 40 05 19 00-0638 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,398.35                  | 370.22                  |
| For Class 52 Rating, Deduct   | -92.11                    |                         |
| For Class 54 Rating, Add  | 132.34                    |                         |
| For Class 55 Rating, Add  | 200.20                    |                         |
| For Class 56 Rating, Add  | 267.23                    |                         |
| 40 05 19 00-0639 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,497.36                  | 374.16                  |
| For Class 52 Rating, Deduct   | -102.35                   |                         |
| For Class 54 Rating, Add  | 146.37                    |                         |
| For Class 55 Rating, Add  | 221.09                    |                         |
| For Class 56 Rating, Add  | 294.89                    |                         |
| 40 05 19 00-0640 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,596.37                  | 378.11                  |
| For Class 52 Rating, Deduct   | -112.58                   |                         |
| For Class 54 Rating, Add  | 160.40                    |                         |
| For Class 55 Rating, Add  | 241.99                    |                         |
| For Class 56 Rating, Add  | 322.55                    |                         |
| 40 05 19 00-0641 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,695.38                  | 382.04                  |
| For Class 52 Rating, Deduct   | -122.82                   |                         |
| For Class 54 Rating, Add  | 174.43                    |                         |
| For Class 55 Rating, Add  | 262.88                    |                         |
| For Class 56 Rating, Add  | 350.21                    |                         |
| 40 05 19 00-0642 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,794.39                  | 385.98                  |
| For Class 52 Rating, Deduct   | -133.05                   |                         |
| For Class 54 Rating, Add  | 188.45                    |                         |
| For Class 55 Rating, Add  | 283.77                    |                         |
| For Class 56 Rating, Add  | 377.88                    |                         |
| 40 05 19 00-0643 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,893.40                  | 389.92                  |
| For Class 52 Rating, Deduct   | -143.29                   |                         |
| For Class 54 Rating, Add  | 202.48                    |                         |
| For Class 55 Rating, Add  | 304.66                    |                         |
| For Class 56 Rating, Add  | 405.54                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0644 | EA  |     | 8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,992.41               | 393.85               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -153.52                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 216.51                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 325.55                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 433.20                 |                      |
| 40 05 19 00-0645 | EA  |     | 8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,091.43               | 397.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -163.76                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 230.54                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 346.45                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 460.87                 |                      |
| 40 05 19 00-0646 | EA  |     | 8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,190.44               | 401.74               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -173.99                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 244.57                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 367.34                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 488.53                 |                      |
| 40 05 19 00-0647 | EA  |     | 8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,289.44               | 405.67               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -184.23                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 258.59                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 388.23                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 516.19                 |                      |
| 40 05 19 00-0648 | EA  |     | 8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,388.46               | 409.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -194.46                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 272.62                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 409.12                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 543.86                 |                      |
| 40 05 19 00-0649 | EA  |     | 8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,487.48               | 413.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -204.70                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 286.65                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 430.01                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 571.52                 |                      |
| 40 05 19 00-0650 | EA  |     | 8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,586.49               | 417.49               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -214.93                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 300.68                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 450.91                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 599.18                 |                      |
| 40 05 19 00-0651 | EA  |     | 8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,685.50               | 421.43               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -225.17                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 314.71                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 471.80                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 626.84                 |                      |
| 40 05 19 00-0652 | EA  |     | 8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,784.52               | 425.37               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -235.40                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 328.74                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 492.69                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 654.51                 |                      |
| 40 05 19 00-0653 | EA  |     | 8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,883.52               | 429.31               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -245.64                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 342.76                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 513.58                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 682.17                 |                      |
| 40 05 19 00-0654 | EA  |     | 8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,982.53               | 433.24               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -255.87                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 356.79                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 534.47                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 709.83                 |                      |
| 40 05 19 00-0655 | EA  |     | 8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,081.55               | 437.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -266.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 370.82                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 555.37                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 737.50                 |                      |
| 40 05 19 00-0656 | EA  |     | 8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,180.56               | 441.13               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -276.34                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 384.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 576.26                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 765.16                 |                      |
| 40 05 19 00-0657 | EA  |     | 8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,279.57               | 445.06               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -286.58                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 398.88                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 597.15                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 792.82                 |                      |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| 40 05   | 40        |
| <b>Ductile Iron Process Pipe 40 05 19</b>               |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,378.58                  | 449.00                  |
| <i>For Class 52 Rating, Deduct</i>   | -296.81                   |                         |
| <i>For Class 54 Rating, Add</i>  | 412.91                    |                         |
| <i>For Class 55 Rating, Add</i>  | 618.04                    |                         |
| <i>For Class 56 Rating, Add</i>  | 820.48                    |                         |
| 40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,477.59                  | 452.94                  |
| <i>For Class 52 Rating, Deduct</i>   | -307.05                   |                         |
| <i>For Class 54 Rating, Add</i>  | 426.93                    |                         |
| <i>For Class 55 Rating, Add</i>  | 638.93                    |                         |
| <i>For Class 56 Rating, Add</i>  | 848.15                    |                         |
| 40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,576.60                  | 456.87                  |
| <i>For Class 52 Rating, Deduct</i>   | -317.28                   |                         |
| <i>For Class 54 Rating, Add</i>  | 440.96                    |                         |
| <i>For Class 55 Rating, Add</i>  | 659.83                    |                         |
| <i>For Class 56 Rating, Add</i>  | 875.81                    |                         |
| 40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,675.61                  | 460.81                  |
| <i>For Class 52 Rating, Deduct</i>   | -327.52                   |                         |
| <i>For Class 54 Rating, Add</i>  | 454.99                    |                         |
| <i>For Class 55 Rating, Add</i>  | 680.72                    |                         |
| <i>For Class 56 Rating, Add</i>  | 903.47                    |                         |
| 40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,774.63                  | 464.76                  |
| <i>For Class 52 Rating, Deduct</i>   | -337.75                   |                         |
| <i>For Class 54 Rating, Add</i>  | 469.02                    |                         |
| <i>For Class 55 Rating, Add</i>  | 701.61                    |                         |
| <i>For Class 56 Rating, Add</i>  | 931.14                    |                         |
| 40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,873.64                  | 468.69                  |
| <i>For Class 52 Rating, Deduct</i>   | -347.99                   |                         |
| <i>For Class 54 Rating, Add</i>  | 483.05                    |                         |
| <i>For Class 55 Rating, Add</i>  | 722.50                    |                         |
| <i>For Class 56 Rating, Add</i>  | 958.80                    |                         |
| 40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,972.65                  | 472.63                  |
| <i>For Class 52 Rating, Deduct</i>   | -358.22                   |                         |
| <i>For Class 54 Rating, Add</i>  | 497.08                    |                         |
| <i>For Class 55 Rating, Add</i>  | 743.40                    |                         |
| <i>For Class 56 Rating, Add</i>  | 986.46                    |                         |
| 40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,071.66                  | 476.57                  |
| <i>For Class 52 Rating, Deduct</i>   | -368.45                   |                         |
| <i>For Class 54 Rating, Add</i>  | 511.10                    |                         |
| <i>For Class 55 Rating, Add</i>  | 764.29                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,014.12                  |                         |
| 40 05 19 00-0666 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,170.67                  | 480.50                  |
| <i>For Class 52 Rating, Deduct</i>   | -378.69                   |                         |
| <i>For Class 54 Rating, Add</i>  | 525.13                    |                         |
| <i>For Class 55 Rating, Add</i>  | 785.18                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,041.79                  |                         |
| 40 05 19 00-0667 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,269.68                  | 484.45                  |
| <i>For Class 52 Rating, Deduct</i>   | -388.92                   |                         |
| <i>For Class 54 Rating, Add</i>  | 539.16                    |                         |
| <i>For Class 55 Rating, Add</i>  | 806.07                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,069.45                  |                         |
| 40 05 19 00-0668 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,368.70                  | 488.39                  |
| <i>For Class 52 Rating, Deduct</i>   | -399.16                   |                         |
| <i>For Class 54 Rating, Add</i>  | 553.19                    |                         |
| <i>For Class 55 Rating, Add</i>  | 826.96                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,097.11                  |                         |
| 40 05 19 00-0669 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,467.72                  | 492.32                  |
| <i>For Class 52 Rating, Deduct</i>   | -409.39                   |                         |
| <i>For Class 54 Rating, Add</i>  | 567.22                    |                         |
| <i>For Class 55 Rating, Add</i>  | 847.86                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,124.78                  |                         |
| 40 05 19 00-0670 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,566.72                  | 496.26                  |
| <i>For Class 52 Rating, Deduct</i>   | -419.63                   |                         |
| <i>For Class 54 Rating, Add</i>  | 581.24                    |                         |
| <i>For Class 55 Rating, Add</i>  | 868.75                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,152.44                  |                         |
| 40 05 19 00-0671 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,665.73                  | 500.20                  |
| <i>For Class 52 Rating, Deduct</i>   | -429.86                   |                         |
| <i>For Class 54 Rating, Add</i>  | 595.27                    |                         |
| <i>For Class 55 Rating, Add</i>  | 889.64                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,180.10                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0672  | EA  |     | 8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,764.75               | 504.13               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -440.10                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 609.30                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 910.53                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 1,207.76               |                      |
| 40 05 19 00-0673  | EA  |     | 8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,863.76               | 508.08               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -450.33                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 623.33                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 931.42                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 1,235.43               |                      |
| 40 05 19 00-0674  | EA  |     | 8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,962.77               | 512.02               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -460.57                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 637.36                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 952.32                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 1,263.09               |                      |
| <b>40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)</b> |     |     |  |                        |                      |
| 40 05 19 00-0676  | EA  |     | 10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,501.54               | 441.13               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -91.65                 |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 133.00                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 201.84                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 269.85                 |                      |
| 40 05 19 00-0677  | EA  |     | 10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,630.15               | 445.06               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -105.14                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 151.46                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 229.33                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 306.24                 |                      |
| 40 05 19 00-0678  | EA  |     | 10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,758.77               | 449.00               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -118.63                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 169.93                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 256.83                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 342.64                 |                      |
| 40 05 19 00-0679  | EA  |     | 10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,887.39               | 452.94               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -132.12                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 188.40                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 284.32                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 379.04                 |                      |
| 40 05 19 00-0680  | EA  |     | 10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,015.99               | 456.87               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -145.61                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 206.87                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 311.81                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 415.43                 |                      |
| 40 05 19 00-0681  | EA  |     | 10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,144.61               | 460.81               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -159.11                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 225.34                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 339.31                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 451.83                 |                      |
| 40 05 19 00-0682  | EA  |     | 10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,273.23               | 464.76               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -172.60                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 243.81                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 366.80                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 488.22                 |                      |
| 40 05 19 00-0683  | EA  |     | 10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,401.85               | 468.69               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -186.09                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 262.28                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 394.29                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 524.62                 |                      |
| 40 05 19 00-0684  | EA  |     | 10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,530.46               | 472.63               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -199.58                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 280.75                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 421.79                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 561.02                 |                      |
| 40 05 19 00-0685  | EA  |     | 10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,659.08               | 476.57               |
|   |     |     | <i>For Class 52 Rating, Deduct</i>   | -213.07                |                      |
|   |     |     | <i>For Class 54 Rating, Add</i>  | 299.22                 |                      |
|   |     |     | <i>For Class 55 Rating, Add</i>  | 449.28                 |                      |
|   |     |     | <i>For Class 56 Rating, Add</i>  | 597.41                 |                      |



|   |
|---|
| <b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>                            |
| <b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span> |
| Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>                         |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 2,787.70                  | 480.50                  |
| For Class 52 Rating, Deduct  | -226.56                   |                         |
| For Class 54 Rating, Add   | 317.69                    |                         |
| For Class 55 Rating, Add   | 476.78                    |                         |
| For Class 56 Rating, Add   | 633.81                    |                         |
| 40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 2,916.31                  | 484.45                  |
| For Class 52 Rating, Deduct  | -240.05                   |                         |
| For Class 54 Rating, Add   | 336.15                    |                         |
| For Class 55 Rating, Add   | 504.27                    |                         |
| For Class 56 Rating, Add   | 670.21                    |                         |
| 40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 3,044.94                  | 488.39                  |
| For Class 52 Rating, Deduct  | -253.55                   |                         |
| For Class 54 Rating, Add   | 354.62                    |                         |
| For Class 55 Rating, Add   | 531.77                    |                         |
| For Class 56 Rating, Add   | 706.60                    |                         |
| 40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 3,173.56                  | 492.32                  |
| For Class 52 Rating, Deduct  | -267.04                   |                         |
| For Class 54 Rating, Add   | 373.09                    |                         |
| For Class 55 Rating, Add   | 559.26                    |                         |
| For Class 56 Rating, Add   | 743.00                    |                         |
| 40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 3,302.17                  | 496.26                  |
| For Class 52 Rating, Deduct  | -280.53                   |                         |
| For Class 54 Rating, Add   | 391.56                    |                         |
| For Class 55 Rating, Add   | 586.75                    |                         |
| For Class 56 Rating, Add   | 779.40                    |                         |
| 40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 3,430.78                  | 500.20                  |
| For Class 52 Rating, Deduct  | -294.02                   |                         |
| For Class 54 Rating, Add   | 410.03                    |                         |
| For Class 55 Rating, Add   | 614.25                    |                         |
| For Class 56 Rating, Add   | 815.79                    |                         |
| 40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 3,559.40                  | 504.13                  |
| For Class 52 Rating, Deduct  | -307.51                   |                         |
| For Class 54 Rating, Add   | 428.50                    |                         |
| For Class 55 Rating, Add   | 641.74                    |                         |
| For Class 56 Rating, Add   | 852.19                    |                         |
| 40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 3,688.02                  | 508.08                  |
| For Class 52 Rating, Deduct  | -321.00                   |                         |
| For Class 54 Rating, Add   | 446.97                    |                         |
| For Class 55 Rating, Add   | 669.23                    |                         |
| For Class 56 Rating, Add   | 888.58                    |                         |
| 40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 3,816.63                  | 512.02                  |
| For Class 52 Rating, Deduct  | -334.49                   |                         |
| For Class 54 Rating, Add   | 465.44                    |                         |
| For Class 55 Rating, Add   | 696.73                    |                         |
| For Class 56 Rating, Add   | 924.98                    |                         |
| 40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 3,945.25                  | 515.95                  |
| For Class 52 Rating, Deduct  | -347.99                   |                         |
| For Class 54 Rating, Add   | 483.91                    |                         |
| For Class 55 Rating, Add   | 724.22                    |                         |
| For Class 56 Rating, Add   | 961.38                    |                         |
| 40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 4,073.87                  | 519.89                  |
| For Class 52 Rating, Deduct  | -361.48                   |                         |
| For Class 54 Rating, Add   | 502.38                    |                         |
| For Class 55 Rating, Add   | 751.72                    |                         |
| For Class 56 Rating, Add   | 997.77                    |                         |
| 40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 4,202.48                  | 523.83                  |
| For Class 52 Rating, Deduct  | -374.97                   |                         |
| For Class 54 Rating, Add   | 520.84                    |                         |
| For Class 55 Rating, Add   | 779.21                    |                         |
| For Class 56 Rating, Add   | 1,034.17                  |                         |
| 40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 4,331.10                  | 527.77                  |
| For Class 52 Rating, Deduct  | -388.46                   |                         |
| For Class 54 Rating, Add   | 539.31                    |                         |
| For Class 55 Rating, Add   | 806.70                    |                         |
| For Class 56 Rating, Add   | 1,070.57                  |                         |
| 40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 4,459.72                  | 531.71                  |
| For Class 52 Rating, Deduct  | -401.95                   |                         |
| For Class 54 Rating, Add   | 557.78                    |                         |
| For Class 55 Rating, Add   | 834.20                    |                         |
| For Class 56 Rating, Add   | 1,106.96                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0700 | EA  |     | 10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,588.33                  | 535.65                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -415.44                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 576.25                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 861.69                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,143.36                  |                         |
| 40 05 19 00-0701 | EA  |     | 10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,716.95                  | 539.58                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -428.93                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 594.72                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 889.19                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,179.75                  |                         |
| 40 05 19 00-0702 | EA  |     | 10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,845.57                  | 543.52                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -442.43                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 613.19                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 916.68                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,216.15                  |                         |
| 40 05 19 00-0703 | EA  |     | 10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,974.18                  | 547.46                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -455.92                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 631.66                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 944.17                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,252.55                  |                         |
| 40 05 19 00-0704 | EA  |     | 10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,102.79                  | 551.40                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -469.41                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 650.13                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 971.67                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,288.94                  |                         |
| 40 05 19 00-0705 | EA  |     | 10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,231.41                  | 555.34                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -482.90                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 668.60                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 999.16                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,325.34                  |                         |
| 40 05 19 00-0706 | EA  |     | 10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,360.03                  | 559.28                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -496.39                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 687.06                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,026.66                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,361.73                  |                         |
| 40 05 19 00-0707 | EA  |     | 10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,488.65                  | 563.22                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -509.88                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 705.53                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,054.15                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,398.13                  |                         |
| 40 05 19 00-0708 | EA  |     | 10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,617.27                  | 567.15                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -523.37                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 724.00                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,081.64                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,434.53                  |                         |
| 40 05 19 00-0709 | EA  |     | 10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,745.89                  | 571.10                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -536.86                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 742.47                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,109.14                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,470.92                  |                         |
| 40 05 19 00-0710 | EA  |     | 10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,874.50                  | 575.04                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -550.36                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 760.94                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,136.63                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,507.32                  |                         |
| 40 05 19 00-0711 | EA  |     | 10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,003.12                  | 578.97                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -563.85                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 779.41                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,164.13                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,543.72                  |                         |
| 40 05 19 00-0712 | EA  |     | 10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,131.74                  | 582.91                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -577.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 797.88                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,191.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,580.11                  |                         |
| 40 05 19 00-0713 | EA  |     | 10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,260.36                  | 586.85                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -590.83                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 816.35                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,219.12                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,616.51                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0714 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 6,388.96                  | 590.78                  |
| For Class 52 Rating, Deduct  | -604.32                   |                         |
| For Class 54 Rating, Add   | 834.82                    |                         |
| For Class 55 Rating, Add   | 1,246.61                  |                         |
| For Class 56 Rating, Add   | 1,652.90                  |                         |
| <b>40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small></b> |                           |                         |
| 40 05 19 00-0716 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 1,939.29                  | 551.40                  |
| For Class 52 Rating, Deduct  | -121.42                   |                         |
| For Class 54 Rating, Add   | 175.60                    |                         |
| For Class 55 Rating, Add   | 266.21                    |                         |
| For Class 56 Rating, Add   | 355.71                    |                         |
| 40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 2,099.63                  | 555.34                  |
| For Class 52 Rating, Deduct  | -138.40                   |                         |
| For Class 54 Rating, Add   | 198.83                    |                         |
| For Class 55 Rating, Add   | 300.77                    |                         |
| For Class 56 Rating, Add   | 401.46                    |                         |
| 40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 2,259.97                  | 559.28                  |
| For Class 52 Rating, Deduct  | -155.38                   |                         |
| For Class 54 Rating, Add   | 222.06                    |                         |
| For Class 55 Rating, Add   | 335.34                    |                         |
| For Class 56 Rating, Add   | 447.22                    |                         |
| 40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 2,420.31                  | 563.22                  |
| For Class 52 Rating, Deduct  | -172.36                   |                         |
| For Class 54 Rating, Add   | 245.28                    |                         |
| For Class 55 Rating, Add   | 369.91                    |                         |
| For Class 56 Rating, Add   | 492.97                    |                         |
| 40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 2,580.65                  | 567.15                  |
| For Class 52 Rating, Deduct  | -189.35                   |                         |
| For Class 54 Rating, Add   | 268.51                    |                         |
| For Class 55 Rating, Add   | 404.48                    |                         |
| For Class 56 Rating, Add   | 538.73                    |                         |
| 40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 2,740.99                  | 571.10                  |
| For Class 52 Rating, Deduct  | -206.33                   |                         |
| For Class 54 Rating, Add   | 291.74                    |                         |
| For Class 55 Rating, Add   | 439.05                    |                         |
| For Class 56 Rating, Add   | 584.48                    |                         |
| 40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 2,901.31                  | 575.04                  |
| For Class 52 Rating, Deduct  | -223.31                   |                         |
| For Class 54 Rating, Add   | 314.96                    |                         |
| For Class 55 Rating, Add   | 473.61                    |                         |
| For Class 56 Rating, Add   | 630.23                    |                         |
| 40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 3,061.65                  | 578.97                  |
| For Class 52 Rating, Deduct  | -240.29                   |                         |
| For Class 54 Rating, Add   | 338.19                    |                         |
| For Class 55 Rating, Add   | 508.18                    |                         |
| For Class 56 Rating, Add   | 675.98                    |                         |
| 40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 3,221.99                  | 582.91                  |
| For Class 52 Rating, Deduct  | -257.27                   |                         |
| For Class 54 Rating, Add   | 361.42                    |                         |
| For Class 55 Rating, Add   | 542.75                    |                         |
| For Class 56 Rating, Add   | 721.74                    |                         |
| 40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 3,382.33                  | 586.85                  |
| For Class 52 Rating, Deduct  | -274.25                   |                         |
| For Class 54 Rating, Add   | 384.64                    |                         |
| For Class 55 Rating, Add   | 577.31                    |                         |
| For Class 56 Rating, Add   | 767.49                    |                         |
| 40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 3,542.66                  | 590.78                  |
| For Class 52 Rating, Deduct  | -291.23                   |                         |
| For Class 54 Rating, Add   | 407.87                    |                         |
| For Class 55 Rating, Add   | 611.88                    |                         |
| For Class 56 Rating, Add   | 813.25                    |                         |
| 40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 3,703.00                  | 594.73                  |
| For Class 52 Rating, Deduct  | -308.21                   |                         |
| For Class 54 Rating, Add   | 431.10                    |                         |
| For Class 55 Rating, Add   | 646.45                    |                         |
| For Class 56 Rating, Add   | 859.00                    |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0728 | EA  |     | 12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 3,863.34                  | 598.67                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -325.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 454.33                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 681.02                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 904.75                    |                         |
| 40 05 19 00-0729 | EA  |     | 12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 4,023.67                  | 602.60                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -342.17                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 477.55                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 715.59                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 950.51                    |                         |
| 40 05 19 00-0730 | EA  |     | 12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 4,184.00                  | 606.54                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -359.15                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 500.78                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 750.15                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 996.26                    |                         |
| 40 05 19 00-0731 | EA  |     | 12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 4,344.34                  | 610.48                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -376.13                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 524.01                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 784.72                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,042.01                  |                         |
| 40 05 19 00-0732 | EA  |     | 12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 4,504.67                  | 614.42                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -393.11                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 547.23                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 819.29                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,087.77                  |                         |
| 40 05 19 00-0733 | EA  |     | 12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 4,665.01                  | 618.36                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -410.09                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 570.46                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 853.85                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,133.52                  |                         |
| 40 05 19 00-0734 | EA  |     | 12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,825.35                  | 622.30                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -427.07                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 593.69                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 888.42                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,179.27                  |                         |
| 40 05 19 00-0735 | EA  |     | 12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,985.69                  | 626.23                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -444.05                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 616.91                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 922.99                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,225.03                  |                         |
| 40 05 19 00-0736 | EA  |     | 12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,146.02                  | 630.17                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -461.03                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 640.14                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 957.56                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,270.78                  |                         |
| 40 05 19 00-0737 | EA  |     | 12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,306.36                  | 634.11                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -478.01                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 663.37                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 992.13                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,316.54                  |                         |
| 40 05 19 00-0738 | EA  |     | 12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,466.70                  | 638.05                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -494.99                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 686.59                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,026.69                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,362.29                  |                         |
| 40 05 19 00-0739 | EA  |     | 12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,627.03                  | 641.99                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -511.98                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 709.82                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,061.26                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,408.04                  |                         |
| 40 05 19 00-0740 | EA  |     | 12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,787.37                  | 645.93                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -528.96                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 733.05                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,095.83                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,453.80                  |                         |
| 40 05 19 00-0741 | EA  |     | 12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,947.71                  | 649.86                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -545.94                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 756.27                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,130.39                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,499.55                  |                         |



|   |
|---|
| <b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>                            |
| <b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span> |
| Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>                         |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0742 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,108.04                  | 653.80                  |
| For Class 52 Rating, Deduct  | -562.92                   |                         |
| For Class 54 Rating, Add   | 779.50                    |                         |
| For Class 55 Rating, Add   | 1,164.96                  |                         |
| For Class 56 Rating, Add   | 1,545.30                  |                         |
| 40 05 19 00-0743 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,268.38                  | 657.75                  |
| For Class 52 Rating, Deduct  | -579.90                   |                         |
| For Class 54 Rating, Add   | 802.73                    |                         |
| For Class 55 Rating, Add   | 1,199.53                  |                         |
| For Class 56 Rating, Add   | 1,591.06                  |                         |
| 40 05 19 00-0744 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,428.72                  | 661.68                  |
| For Class 52 Rating, Deduct  | -596.88                   |                         |
| For Class 54 Rating, Add   | 825.96                    |                         |
| For Class 55 Rating, Add   | 1,234.10                  |                         |
| For Class 56 Rating, Add   | 1,636.81                  |                         |
| 40 05 19 00-0745 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,589.06                  | 665.62                  |
| For Class 52 Rating, Deduct  | -613.86                   |                         |
| For Class 54 Rating, Add   | 849.18                    |                         |
| For Class 55 Rating, Add   | 1,268.66                  |                         |
| For Class 56 Rating, Add   | 1,682.57                  |                         |
| 40 05 19 00-0746 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,749.38                  | 669.56                  |
| For Class 52 Rating, Deduct  | -630.84                   |                         |
| For Class 54 Rating, Add   | 872.41                    |                         |
| For Class 55 Rating, Add   | 1,303.23                  |                         |
| For Class 56 Rating, Add   | 1,728.32                  |                         |
| 40 05 19 00-0747 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,909.72                  | 673.49                  |
| For Class 52 Rating, Deduct  | -647.82                   |                         |
| For Class 54 Rating, Add   | 895.64                    |                         |
| For Class 55 Rating, Add   | 1,337.80                  |                         |
| For Class 56 Rating, Add   | 1,774.07                  |                         |
| 40 05 19 00-0748 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,070.06                  | 677.44                  |
| For Class 52 Rating, Deduct  | -664.80                   |                         |
| For Class 54 Rating, Add   | 918.86                    |                         |
| For Class 55 Rating, Add   | 1,372.37                  |                         |
| For Class 56 Rating, Add   | 1,819.82                  |                         |
| 40 05 19 00-0749 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,230.39                  | 681.38                  |
| For Class 52 Rating, Deduct  | -681.78                   |                         |
| For Class 54 Rating, Add   | 942.09                    |                         |
| For Class 55 Rating, Add   | 1,406.93                  |                         |
| For Class 56 Rating, Add   | 1,865.58                  |                         |
| 40 05 19 00-0750 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,390.73                  | 685.31                  |
| For Class 52 Rating, Deduct  | -698.76                   |                         |
| For Class 54 Rating, Add   | 965.32                    |                         |
| For Class 55 Rating, Add   | 1,441.50                  |                         |
| For Class 56 Rating, Add   | 1,911.33                  |                         |
| 40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,551.07                  | 689.25                  |
| For Class 52 Rating, Deduct  | -715.74                   |                         |
| For Class 54 Rating, Add   | 988.54                    |                         |
| For Class 55 Rating, Add   | 1,476.07                  |                         |
| For Class 56 Rating, Add   | 1,957.09                  |                         |
| 40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,711.41                  | 693.19                  |
| For Class 52 Rating, Deduct  | -732.72                   |                         |
| For Class 54 Rating, Add   | 1,011.77                  |                         |
| For Class 55 Rating, Add   | 1,510.64                  |                         |
| For Class 56 Rating, Add   | 2,002.84                  |                         |
| 40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,871.73                  | 697.12                  |
| For Class 52 Rating, Deduct  | -749.70                   |                         |
| For Class 54 Rating, Add   | 1,035.00                  |                         |
| For Class 55 Rating, Add   | 1,545.20                  |                         |
| For Class 56 Rating, Add   | 2,048.59                  |                         |
| 40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 8,032.07                  | 701.07                  |
| For Class 52 Rating, Deduct  | -766.68                   |                         |
| For Class 54 Rating, Add   | 1,058.22                  |                         |
| For Class 55 Rating, Add   | 1,579.77                  |                         |
| For Class 56 Rating, Add   | 2,094.35                  |                         |

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined,  
Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0756 | EA  |     | 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,651.97               | 661.68               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -181.44                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 259.44                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 391.88                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 522.67                 |                      |
| 40 05 19 00-0757 | EA  |     | 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,846.14               | 665.62               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -202.14                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 287.75                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 433.99                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 578.40                 |                      |
| 40 05 19 00-0758 | EA  |     | 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,040.31               | 669.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -222.84                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 316.05                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 476.11                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 634.14                 |                      |
| 40 05 19 00-0759 | EA  |     | 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,234.48               | 673.49               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -243.54                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 344.35                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 518.22                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 689.88                 |                      |
| 40 05 19 00-0760 | EA  |     | 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,428.65               | 677.44               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -264.25                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 372.65                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 560.33                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 745.61                 |                      |
| 40 05 19 00-0761 | EA  |     | 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,622.81               | 681.38               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -284.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 400.95                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 602.44                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 801.34                 |                      |
| 40 05 19 00-0762 | EA  |     | 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,816.99               | 685.31               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -305.65                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 429.26                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 644.56                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 857.08                 |                      |
| 40 05 19 00-0763 | EA  |     | 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,011.16               | 689.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -326.35                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 457.56                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 686.67                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 912.81                 |                      |
| 40 05 19 00-0764 | EA  |     | 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,205.33               | 693.19               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -347.05                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 485.86                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 728.78                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 968.55                 |                      |
| 40 05 19 00-0765 | EA  |     | 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,399.50               | 697.12               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -367.76                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 514.16                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 770.89                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,024.28               |                      |
| 40 05 19 00-0766 | EA  |     | 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,593.67               | 701.07               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -388.46                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 542.46                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 813.01                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,080.02               |                      |
| 40 05 19 00-0767 | EA  |     | 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,787.84               | 705.01               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -409.16                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 570.77                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 855.12                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,135.75               |                      |
| 40 05 19 00-0768 | EA  |     | 14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,982.00               | 708.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -429.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 599.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 897.23                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,191.49               |                      |
| 40 05 19 00-0769 | EA  |     | 14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,176.19               | 712.88               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -450.57                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 627.37                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 939.34                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,247.22               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0770 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 5,370.36                  | 716.82                  |
| For Class 52 Rating, Deduct  | -471.27                   |                         |
| For Class 54 Rating, Add   | 655.67                    |                         |
| For Class 55 Rating, Add   | 981.46                    |                         |
| For Class 56 Rating, Add   | 1,302.96                  |                         |
| 40 05 19 00-0771 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 5,564.52                  | 720.76                  |
| For Class 52 Rating, Deduct  | -491.97                   |                         |
| For Class 54 Rating, Add   | 683.97                    |                         |
| For Class 55 Rating, Add   | 1,023.57                  |                         |
| For Class 56 Rating, Add   | 1,358.69                  |                         |
| 40 05 19 00-0772 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 5,758.70                  | 724.70                  |
| For Class 52 Rating, Deduct  | -512.67                   |                         |
| For Class 54 Rating, Add   | 712.28                    |                         |
| For Class 55 Rating, Add   | 1,065.68                  |                         |
| For Class 56 Rating, Add   | 1,414.43                  |                         |
| 40 05 19 00-0773 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 5,952.87                  | 728.64                  |
| For Class 52 Rating, Deduct  | -533.38                   |                         |
| For Class 54 Rating, Add   | 740.58                    |                         |
| For Class 55 Rating, Add   | 1,107.79                  |                         |
| For Class 56 Rating, Add   | 1,470.16                  |                         |
| 40 05 19 00-0774 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,147.04                  | 732.58                  |
| For Class 52 Rating, Deduct  | -554.08                   |                         |
| For Class 54 Rating, Add   | 768.88                    |                         |
| For Class 55 Rating, Add   | 1,149.91                  |                         |
| For Class 56 Rating, Add   | 1,525.89                  |                         |
| 40 05 19 00-0775 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,341.21                  | 736.51                  |
| For Class 52 Rating, Deduct  | -574.78                   |                         |
| For Class 54 Rating, Add   | 797.18                    |                         |
| For Class 55 Rating, Add   | 1,192.02                  |                         |
| For Class 56 Rating, Add   | 1,581.63                  |                         |
| 40 05 19 00-0776 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,535.38                  | 740.45                  |
| For Class 52 Rating, Deduct  | -595.48                   |                         |
| For Class 54 Rating, Add   | 825.48                    |                         |
| For Class 55 Rating, Add   | 1,234.13                  |                         |
| For Class 56 Rating, Add   | 1,637.37                  |                         |
| 40 05 19 00-0777 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,729.55                  | 744.40                  |
| For Class 52 Rating, Deduct  | -616.18                   |                         |
| For Class 54 Rating, Add   | 853.79                    |                         |
| For Class 55 Rating, Add   | 1,276.24                  |                         |
| For Class 56 Rating, Add   | 1,693.10                  |                         |
| 40 05 19 00-0778 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 6,923.71                  | 748.33                  |
| For Class 52 Rating, Deduct  | -636.89                   |                         |
| For Class 54 Rating, Add   | 882.09                    |                         |
| For Class 55 Rating, Add   | 1,318.36                  |                         |
| For Class 56 Rating, Add   | 1,748.83                  |                         |
| 40 05 19 00-0779 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,117.89                  | 752.27                  |
| For Class 52 Rating, Deduct  | -657.59                   |                         |
| For Class 54 Rating, Add   | 910.39                    |                         |
| For Class 55 Rating, Add   | 1,360.47                  |                         |
| For Class 56 Rating, Add   | 1,804.57                  |                         |
| 40 05 19 00-0780 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,312.06                  | 756.21                  |
| For Class 52 Rating, Deduct  | -678.29                   |                         |
| For Class 54 Rating, Add   | 938.69                    |                         |
| For Class 55 Rating, Add   | 1,402.58                  |                         |
| For Class 56 Rating, Add   | 1,860.30                  |                         |
| 40 05 19 00-0781 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,506.22                  | 760.14                  |
| For Class 52 Rating, Deduct  | -698.99                   |                         |
| For Class 54 Rating, Add   | 966.99                    |                         |
| For Class 55 Rating, Add   | 1,444.69                  |                         |
| For Class 56 Rating, Add   | 1,916.04                  |                         |
| 40 05 19 00-0782 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,700.40                  | 764.09                  |
| For Class 52 Rating, Deduct  | -719.70                   |                         |
| For Class 54 Rating, Add   | 995.30                    |                         |
| For Class 55 Rating, Add   | 1,486.81                  |                         |
| For Class 56 Rating, Add   | 1,971.77                  |                         |
| 40 05 19 00-0783 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 7,894.57                  | 768.03                  |
| For Class 52 Rating, Deduct  | -740.40                   |                         |
| For Class 54 Rating, Add   | 1,023.60                  |                         |
| For Class 55 Rating, Add   | 1,528.92                  |                         |
| For Class 56 Rating, Add   | 2,027.51                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0784 | EA  |     | 14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 8,088.74               | 771.96               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -761.10                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,051.90               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,571.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,083.24               |                      |
| 40 05 19 00-0785 | EA  |     | 14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 8,282.90               | 775.90               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -781.80                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,080.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,613.14               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,138.98               |                      |
| 40 05 19 00-0786 | EA  |     | 14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 8,477.08               | 779.84               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -802.51                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,108.51               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,655.26               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,194.71               |                      |
| 40 05 19 00-0787 | EA  |     | 14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 8,671.25               | 783.77               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -823.21                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,136.81               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,697.37               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,250.45               |                      |
| 40 05 19 00-0788 | EA  |     | 14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 8,865.42               | 787.72               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -843.91                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,165.11               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,739.48               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,306.18               |                      |
| 40 05 19 00-0789 | EA  |     | 14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 9,059.60               | 791.66               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -864.61                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,193.41               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,781.59               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,361.92               |                      |
| 40 05 19 00-0790 | EA  |     | 14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 9,253.77               | 795.59               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -885.32                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,221.71               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,823.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,417.65               |                      |
| 40 05 19 00-0791 | EA  |     | 14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 9,447.93               | 799.53               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -906.02                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,250.01               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,865.82               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,473.38               |                      |
| 40 05 19 00-0792 | EA  |     | 14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 9,642.11               | 803.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -926.72                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,278.32               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,907.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,529.12               |                      |
| 40 05 19 00-0793 | EA  |     | 14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 9,836.28               | 807.41               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -947.42                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,306.62               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,950.04               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,584.85               |                      |
| 40 05 19 00-0794 |     |     | 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small> |                        |                      |
| 40 05 19 00-0795 | EA  |     | 16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 3,097.58               | 756.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -214.70                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 306.52                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 462.75                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 617.03                 |                      |
| 40 05 19 00-0796 | EA  |     | 16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 3,323.47               | 760.14               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -238.89                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 339.58                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 511.94                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 682.13                 |                      |
| 40 05 19 00-0797 | EA  |     | 16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 3,549.36               | 764.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -263.08                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 372.64                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 561.12                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 747.22                 |                      |



|   |
|---|
| <b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>                            |
| <b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span> |
| Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>                         |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 3,775.25                  | 768.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -287.27                   |                         |
| <i>For Class 54 Rating, Add</i>   | 405.70                    |                         |
| <i>For Class 55 Rating, Add</i>   | 610.31                    |                         |
| <i>For Class 56 Rating, Add</i>   | 812.31                    |                         |
| 40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 4,001.14                  | 771.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -311.47                   |                         |
| <i>For Class 54 Rating, Add</i>   | 438.76                    |                         |
| <i>For Class 55 Rating, Add</i>   | 659.50                    |                         |
| <i>For Class 56 Rating, Add</i>   | 877.40                    |                         |
| 40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 4,227.03                  | 775.90                  |
| <i>For Class 52 Rating, Deduct</i>  | -335.66                   |                         |
| <i>For Class 54 Rating, Add</i>   | 471.82                    |                         |
| <i>For Class 55 Rating, Add</i>   | 708.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 942.49                    |                         |
| 40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 4,452.92                  | 779.84                  |
| <i>For Class 52 Rating, Deduct</i>  | -359.85                   |                         |
| <i>For Class 54 Rating, Add</i>   | 504.88                    |                         |
| <i>For Class 55 Rating, Add</i>   | 757.87                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,007.58                  |                         |
| 40 05 19 00-0802 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 4,678.81                  | 783.77                  |
| <i>For Class 52 Rating, Deduct</i>  | -384.04                   |                         |
| <i>For Class 54 Rating, Add</i>   | 537.94                    |                         |
| <i>For Class 55 Rating, Add</i>   | 807.05                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,072.68                  |                         |
| 40 05 19 00-0803 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 4,904.70                  | 787.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -408.23                   |                         |
| <i>For Class 54 Rating, Add</i>   | 571.00                    |                         |
| <i>For Class 55 Rating, Add</i>   | 856.24                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,137.77                  |                         |
| 40 05 19 00-0804 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 5,109.45                  | 791.66                  |
| <i>For Class 52 Rating, Deduct</i>  | -430.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 600.89                    |                         |
| <i>For Class 55 Rating, Add</i>   | 900.71                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,196.62                  |                         |
| 40 05 19 00-0805 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 5,356.49                  | 795.59                  |
| <i>For Class 52 Rating, Deduct</i>  | -456.61                   |                         |
| <i>For Class 54 Rating, Add</i>   | 637.12                    |                         |
| <i>For Class 55 Rating, Add</i>   | 954.61                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,267.95                  |                         |
| 40 05 19 00-0806 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 5,582.37                  | 799.53                  |
| <i>For Class 52 Rating, Deduct</i>  | -480.81                   |                         |
| <i>For Class 54 Rating, Add</i>   | 670.18                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,003.80                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,333.04                  |                         |
| 40 05 19 00-0807 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 5,808.26                  | 803.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -505.00                   |                         |
| <i>For Class 54 Rating, Add</i>   | 703.24                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,052.98                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,398.14                  |                         |
| 40 05 19 00-0808 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 6,034.16                  | 807.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -529.19                   |                         |
| <i>For Class 54 Rating, Add</i>   | 736.30                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,102.17                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,463.23                  |                         |
| 40 05 19 00-0809 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 6,260.05                  | 811.35                  |
| <i>For Class 52 Rating, Deduct</i>  | -553.38                   |                         |
| <i>For Class 54 Rating, Add</i>   | 769.36                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,151.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,528.32                  |                         |
| 40 05 19 00-0810 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 6,485.93                  | 815.29                  |
| <i>For Class 52 Rating, Deduct</i>  | -577.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 802.42                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,200.54                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,593.41                  |                         |
| 40 05 19 00-0811 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 6,711.82                  | 819.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -601.76                   |                         |
| <i>For Class 54 Rating, Add</i>   | 835.48                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,249.73                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,658.50                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0812 | EA  |     | 16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,937.72               | 823.16               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -625.96                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 868.54                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,298.91               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,723.60               |                      |
| 40 05 19 00-0813 | EA  |     | 16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,163.60               | 827.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -650.15                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 901.60                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,348.10               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,788.69               |                      |
| 40 05 19 00-0814 | EA  |     | 16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,389.49               | 831.04               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -674.34                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 934.66                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,397.29               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,853.78               |                      |
| 40 05 19 00-0815 | EA  |     | 16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,615.38               | 834.98               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -698.53                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 967.72                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,446.47               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,918.87               |                      |
| 40 05 19 00-0816 | EA  |     | 16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,841.27               | 838.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -722.72                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,000.78               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,495.66               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,983.96               |                      |
| 40 05 19 00-0817 | EA  |     | 16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,067.16               | 842.85               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -746.91                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,033.84               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,544.84               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,049.06               |                      |
| 40 05 19 00-0818 | EA  |     | 16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,293.05               | 846.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -771.10                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,066.90               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,594.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,114.15               |                      |
| 40 05 19 00-0819 | EA  |     | 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,518.94               | 850.74               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -795.29                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,099.96               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,643.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,179.24               |                      |
| 40 05 19 00-0820 | EA  |     | 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,744.83               | 854.67               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -819.49                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,133.02               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,692.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,244.33               |                      |
| 40 05 19 00-0821 | EA  |     | 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,970.73               | 858.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -843.68                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,166.08               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,741.59               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,309.42               |                      |
| 40 05 19 00-0822 | EA  |     | 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,196.62               | 862.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -867.87                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,199.14               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,790.77               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,374.52               |                      |
| 40 05 19 00-0823 | EA  |     | 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,422.50               | 866.48               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -892.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,232.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,839.96               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,439.61               |                      |
| 40 05 19 00-0824 | EA  |     | 16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,648.40               | 870.42               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -916.25                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,265.26               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,889.15               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,504.70               |                      |
| 40 05 19 00-0825 | EA  |     | 16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,874.29               | 874.37               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -940.44                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,298.32               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,938.33               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,569.79               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 10,100.17                 | 878.30                  |
| For Class 52 Rating, Deduct  | -964.64                   |                         |
| For Class 54 Rating, Add   | 1,331.38                  |                         |
| For Class 55 Rating, Add   | 1,987.52                  |                         |
| For Class 56 Rating, Add   | 2,634.88                  |                         |
| 40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 10,326.06                 | 882.24                  |
| For Class 52 Rating, Deduct  | -988.83                   |                         |
| For Class 54 Rating, Add   | 1,364.44                  |                         |
| For Class 55 Rating, Add   | 2,036.70                  |                         |
| For Class 56 Rating, Add   | 2,699.97                  |                         |
| 40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 10,551.96                 | 886.18                  |
| For Class 52 Rating, Deduct  | -1,013.02                 |                         |
| For Class 54 Rating, Add   | 1,397.50                  |                         |
| For Class 55 Rating, Add   | 2,085.89                  |                         |
| For Class 56 Rating, Add   | 2,765.07                  |                         |
| 40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 10,777.85                 | 890.12                  |
| For Class 52 Rating, Deduct  | -1,037.21                 |                         |
| For Class 54 Rating, Add   | 1,430.56                  |                         |
| For Class 55 Rating, Add   | 2,135.08                  |                         |
| For Class 56 Rating, Add   | 2,830.16                  |                         |
| 40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 11,003.73                 | 894.06                  |
| For Class 52 Rating, Deduct  | -1,061.40                 |                         |
| For Class 54 Rating, Add   | 1,463.62                  |                         |
| For Class 55 Rating, Add   | 2,184.26                  |                         |
| For Class 56 Rating, Add   | 2,895.25                  |                         |
| 40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 11,229.62                 | 898.00                  |
| For Class 52 Rating, Deduct  | -1,085.59                 |                         |
| For Class 54 Rating, Add   | 1,496.68                  |                         |
| For Class 55 Rating, Add   | 2,233.45                  |                         |
| For Class 56 Rating, Add   | 2,960.34                  |                         |
| 40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 11,455.52                 | 901.94                  |
| For Class 52 Rating, Deduct  | -1,109.78                 |                         |
| For Class 54 Rating, Add   | 1,529.74                  |                         |
| For Class 55 Rating, Add   | 2,282.63                  |                         |
| For Class 56 Rating, Add   | 3,025.44                  |                         |
| <br>40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined,<br>Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small> |                           |                         |
| 40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 3,606.91                  | 852.31                  |
| For Class 52 Rating, Deduct  | -254.71                   |                         |
| For Class 54 Rating, Add   | 362.83                    |                         |
| For Class 55 Rating, Add   | 547.36                    |                         |
| For Class 56 Rating, Add   | 729.57                    |                         |
| 40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 3,866.63                  | 856.26                  |
| For Class 52 Rating, Deduct  | -282.62                   |                         |
| For Class 54 Rating, Add   | 400.96                    |                         |
| For Class 55 Rating, Add   | 604.09                    |                         |
| For Class 56 Rating, Add   | 804.64                    |                         |
| 40 05 19 00-0836 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 4,126.35                  | 860.19                  |
| For Class 52 Rating, Deduct  | -310.53                   |                         |
| For Class 54 Rating, Add   | 439.10                    |                         |
| For Class 55 Rating, Add   | 660.82                    |                         |
| For Class 56 Rating, Add   | 879.72                    |                         |
| 40 05 19 00-0837 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 4,386.08                  | 864.13                  |
| For Class 52 Rating, Deduct  | -338.45                   |                         |
| For Class 54 Rating, Add   | 477.23                    |                         |
| For Class 55 Rating, Add   | 717.55                    |                         |
| For Class 56 Rating, Add   | 954.79                    |                         |
| 40 05 19 00-0838 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 4,645.80                  | 868.07                  |
| For Class 52 Rating, Deduct  | -366.36                   |                         |
| For Class 54 Rating, Add   | 515.37                    |                         |
| For Class 55 Rating, Add   | 774.28                    |                         |
| For Class 56 Rating, Add   | 1,029.86                  |                         |
| 40 05 19 00-0839 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 4,905.52                  | 872.00                  |
| For Class 52 Rating, Deduct  | -394.27                   |                         |
| For Class 54 Rating, Add   | 553.50                    |                         |
| For Class 55 Rating, Add   | 831.01                    |                         |
| For Class 56 Rating, Add   | 1,104.94                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0840 | EA  |     | 18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 5,165.25               | 875.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -422.19                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 591.64                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 887.74                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,180.01               |                      |
| 40 05 19 00-0841 | EA  |     | 18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 5,424.98               | 879.89               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -450.10                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 629.77                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 944.47                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,255.08               |                      |
| 40 05 19 00-0842 | EA  |     | 18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 5,684.70               | 883.82               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -478.01                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 667.91                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,001.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,330.16               |                      |
| 40 05 19 00-0843 | EA  |     | 18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 5,944.42               | 887.76               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -505.93                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 706.04                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,057.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,405.23               |                      |
| 40 05 19 00-0844 | EA  |     | 18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 6,204.16               | 891.70               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -533.84                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 744.18                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,114.67               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,480.30               |                      |
| 40 05 19 00-0845 | EA  |     | 18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 6,463.88               | 895.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -561.75                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 782.31                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,171.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,555.38               |                      |
| 40 05 19 00-0846 | EA  |     | 18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 6,723.60               | 899.58               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -589.67                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 820.45                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,228.13               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,630.45               |                      |
| 40 05 19 00-0847 | EA  |     | 18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 6,983.33               | 903.52               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -617.58                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 858.58                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,284.86               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,705.52               |                      |
| 40 05 19 00-0848 | EA  |     | 18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 7,243.05               | 907.46               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -645.49                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 896.72                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,341.59               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,780.60               |                      |
| 40 05 19 00-0849 | EA  |     | 18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 7,502.77               | 911.39               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -673.41                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 934.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,398.32               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,855.67               |                      |
| 40 05 19 00-0850 | EA  |     | 18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 7,762.50               | 915.33               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -701.32                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 972.99                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,455.05               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,930.74               |                      |
| 40 05 19 00-0851 | EA  |     | 18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 8,022.23               | 919.27               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -729.23                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,011.12               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,511.78               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,005.81               |                      |
| 40 05 19 00-0852 | EA  |     | 18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 8,281.94               | 923.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -757.15                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,049.26               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,568.51               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,080.89               |                      |
| 40 05 19 00-0853 | EA  |     | 18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 8,541.67               | 927.15               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -785.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,087.39               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,625.25               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,155.96               |                      |



|  |          |
|--|----------|
| Process Interconnections                         | 40       |
| Common Work Results For Process Interconnections | 40 05    |
| Ductile Iron Process Pipe                        | 40 05 19 |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 8,801.40                  | 931.09                  |
| Pipe   | -812.97                   |                         |
| For Class 52 Rating, Deduct  | 1,125.53                  |                         |
| For Class 54 Rating, Add   | 1,681.98                  |                         |
| For Class 55 Rating, Add   | 2,231.03                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 9,061.11                  | 935.02                  |
| Pipe   | -840.89                   |                         |
| For Class 52 Rating, Deduct  | 1,163.66                  |                         |
| For Class 54 Rating, Add   | 1,738.71                  |                         |
| For Class 55 Rating, Add   | 2,306.10                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 9,320.84                  | 938.96                  |
| Pipe   | -868.80                   |                         |
| For Class 52 Rating, Deduct  | 1,201.80                  |                         |
| For Class 54 Rating, Add   | 1,795.44                  |                         |
| For Class 55 Rating, Add   | 2,381.18                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 9,580.57                  | 942.91                  |
| Pipe   | -896.71                   |                         |
| For Class 52 Rating, Deduct  | 1,239.93                  |                         |
| For Class 54 Rating, Add   | 1,852.17                  |                         |
| For Class 55 Rating, Add   | 2,456.25                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 9,840.28                  | 946.84                  |
| Pipe   | -924.63                   |                         |
| For Class 52 Rating, Deduct  | 1,278.07                  |                         |
| For Class 54 Rating, Add   | 1,908.90                  |                         |
| For Class 55 Rating, Add   | 2,531.32                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,100.01                 | 950.78                  |
| Pipe   | -952.54                   |                         |
| For Class 52 Rating, Deduct  | 1,316.20                  |                         |
| For Class 54 Rating, Add   | 1,965.63                  |                         |
| For Class 55 Rating, Add   | 2,606.40                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,359.74                 | 954.72                  |
| Pipe   | -980.45                   |                         |
| For Class 52 Rating, Deduct  | 1,354.34                  |                         |
| For Class 54 Rating, Add   | 2,022.36                  |                         |
| For Class 55 Rating, Add   | 2,681.47                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,619.46                 | 958.65                  |
| Pipe   | -1,008.37                 |                         |
| For Class 52 Rating, Deduct  | 1,392.47                  |                         |
| For Class 54 Rating, Add   | 2,079.09                  |                         |
| For Class 55 Rating, Add   | 2,756.54                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,879.18                 | 962.59                  |
| Pipe   | -1,036.28                 |                         |
| For Class 52 Rating, Deduct  | 1,430.61                  |                         |
| For Class 54 Rating, Add   | 2,135.82                  |                         |
| For Class 55 Rating, Add   | 2,831.62                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 11,138.92                 | 966.54                  |
| Pipe   | -1,064.19                 |                         |
| For Class 52 Rating, Deduct  | 1,468.75                  |                         |
| For Class 54 Rating, Add   | 2,192.56                  |                         |
| For Class 55 Rating, Add   | 2,906.69                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 11,398.64                 | 970.47                  |
| Pipe   | -1,092.11                 |                         |
| For Class 52 Rating, Deduct  | 1,506.88                  |                         |
| For Class 54 Rating, Add   | 2,249.29                  |                         |
| For Class 55 Rating, Add   | 2,981.76                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 11,658.36                 | 974.41                  |
| Pipe   | -1,120.02                 |                         |
| For Class 52 Rating, Deduct  | 1,545.01                  |                         |
| For Class 54 Rating, Add   | 2,306.02                  |                         |
| For Class 55 Rating, Add   | 3,056.84                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 11,918.09                 | 978.35                  |
| Pipe   | -1,147.93                 |                         |
| For Class 52 Rating, Deduct  | 1,583.15                  |                         |
| For Class 54 Rating, Add   | 2,362.75                  |                         |
| For Class 55 Rating, Add   | 3,131.91                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 12,177.82                 | 982.28                  |
| Pipe   | -1,175.85                 |                         |
| For Class 52 Rating, Deduct  | 1,621.29                  |                         |
| For Class 54 Rating, Add   | 2,419.48                  |                         |
| For Class 55 Rating, Add   | 3,206.98                  |                         |
| For Class 56 Rating, Add   |                           |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0868 | EA  |     | 18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 12,437.54              | 986.23               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,203.76              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,659.42               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,476.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,282.06               |                      |
| 40 05 19 00-0869 | EA  |     | 18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 12,697.26              | 990.17               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,231.67              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,697.56               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,532.94               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,357.13               |                      |
| 40 05 19 00-0870 | EA  |     | 18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 12,956.99              | 994.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,259.59              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,735.69               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,589.67               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,432.20               |                      |
| 40 05 19 00-0871 | EA  |     | 18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                             | 13,216.71              | 998.04               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,287.50              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,773.83               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,646.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,507.27               |                      |
| 40 05 19 00-0872 |     |     | <b>20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small> |                        |                      |
| 40 05 19 00-0873 | EA  |     | 20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 4,178.60               | 972.83               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -297.51                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 423.38                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 638.51                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 850.93                 |                      |
| 40 05 19 00-0874 | EA  |     | 20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 4,476.39               | 976.76               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -329.61                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 467.23                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 703.72                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 937.23                 |                      |
| 40 05 19 00-0875 | EA  |     | 20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 4,774.19               | 980.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -361.71                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 511.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 768.95                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,023.53               |                      |
| 40 05 19 00-0876 | EA  |     | 20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 5,071.97               | 984.65               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -393.81                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 554.92                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 834.17                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,109.83               |                      |
| 40 05 19 00-0877 | EA  |     | 20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 5,369.76               | 988.58               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -425.91                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 598.76                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 899.38                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,196.14               |                      |
| 40 05 19 00-0878 | EA  |     | 20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 5,667.55               | 992.52               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -458.01                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 642.61                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 964.60                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,262.44               |                      |
| 40 05 19 00-0879 | EA  |     | 20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 5,965.34               | 996.46               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -490.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 686.45                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,029.82               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,368.74               |                      |
| 40 05 19 00-0880 | EA  |     | 20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 6,263.12               | 1,000.40             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -522.21                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 730.29                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,095.04               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,455.04               |                      |
| 40 05 19 00-0881 | EA  |     | 20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                              | 6,560.91               | 1,004.34             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -554.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 774.14                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,160.26               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,541.34               |                      |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0882 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 6,858.71                  | 1,008.28                |
| Pipe   | -586.41                   |                         |
| For Class 52 Rating, Deduct  | 817.98                    |                         |
| For Class 54 Rating, Add   | 1,225.48                  |                         |
| For Class 55 Rating, Add   | 1,627.65                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0883 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 7,156.49                  | 1,012.21                |
| Pipe   | -618.51                   |                         |
| For Class 52 Rating, Deduct  | 861.83                    |                         |
| For Class 54 Rating, Add   | 1,290.70                  |                         |
| For Class 55 Rating, Add   | 1,713.95                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0884 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 7,454.28                  | 1,016.15                |
| Pipe   | -650.61                   |                         |
| For Class 52 Rating, Deduct  | 905.67                    |                         |
| For Class 54 Rating, Add   | 1,355.92                  |                         |
| For Class 55 Rating, Add   | 1,800.25                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0885 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 7,752.07                  | 1,020.09                |
| Pipe   | -682.71                   |                         |
| For Class 52 Rating, Deduct  | 949.52                    |                         |
| For Class 54 Rating, Add   | 1,421.14                  |                         |
| For Class 55 Rating, Add   | 1,886.55                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0886 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 8,049.85                  | 1,024.03                |
| Pipe   | -714.81                   |                         |
| For Class 52 Rating, Deduct  | 993.36                    |                         |
| For Class 54 Rating, Add   | 1,486.36                  |                         |
| For Class 55 Rating, Add   | 1,972.85                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 8,347.64                  | 1,027.97                |
| Pipe   | -746.91                   |                         |
| For Class 52 Rating, Deduct  | 1,037.21                  |                         |
| For Class 54 Rating, Add   | 1,551.58                  |                         |
| For Class 55 Rating, Add   | 2,059.15                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 8,645.43                  | 1,031.91                |
| Pipe   | -779.01                   |                         |
| For Class 52 Rating, Deduct  | 1,081.05                  |                         |
| For Class 54 Rating, Add   | 1,616.79                  |                         |
| For Class 55 Rating, Add   | 2,145.46                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 8,943.22                  | 1,035.84                |
| Pipe   | -811.11                   |                         |
| For Class 52 Rating, Deduct  | 1,124.90                  |                         |
| For Class 54 Rating, Add   | 1,682.01                  |                         |
| For Class 55 Rating, Add   | 2,231.76                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 9,241.00                  | 1,039.78                |
| Pipe   | -843.21                   |                         |
| For Class 52 Rating, Deduct  | 1,168.74                  |                         |
| For Class 54 Rating, Add   | 1,747.23                  |                         |
| For Class 55 Rating, Add   | 2,318.06                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 9,538.79                  | 1,043.73                |
| Pipe   | -875.31                   |                         |
| For Class 52 Rating, Deduct  | 1,212.59                  |                         |
| For Class 54 Rating, Add   | 1,812.45                  |                         |
| For Class 55 Rating, Add   | 2,404.36                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 9,836.58                  | 1,047.67                |
| Pipe   | -907.41                   |                         |
| For Class 52 Rating, Deduct  | 1,256.43                  |                         |
| For Class 54 Rating, Add   | 1,877.67                  |                         |
| For Class 55 Rating, Add   | 2,490.66                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,134.36                 | 1,051.60                |
| Pipe   | -939.51                   |                         |
| For Class 52 Rating, Deduct  | 1,300.27                  |                         |
| For Class 54 Rating, Add   | 1,942.89                  |                         |
| For Class 55 Rating, Add   | 2,576.96                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,432.15                 | 1,055.54                |
| Pipe   | -971.61                   |                         |
| For Class 52 Rating, Deduct  | 1,344.12                  |                         |
| For Class 54 Rating, Add   | 2,008.11                  |                         |
| For Class 55 Rating, Add   | 2,663.27                  |                         |
| For Class 56 Rating, Add   |                           |                         |
| 40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 10,729.94                 | 1,059.48                |
| Pipe   | -1,003.71                 |                         |
| For Class 52 Rating, Deduct  | 1,387.96                  |                         |
| For Class 54 Rating, Add   | 2,073.33                  |                         |
| For Class 55 Rating, Add   | 2,749.57                  |                         |
| For Class 56 Rating, Add   |                           |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-0896 | EA  |     | 20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,027.72              | 1,063.41             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,035.81              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,431.81               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,138.55               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,835.87               |                      |
| 40 05 19 00-0897 | EA  |     | 20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,325.51              | 1,067.36             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,067.91              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,475.65               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,203.77               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,922.17               |                      |
| 40 05 19 00-0898 | EA  |     | 20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,623.30              | 1,071.30             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,100.01              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,519.50               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,268.99               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,008.47               |                      |
| 40 05 19 00-0899 | EA  |     | 20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,921.09              | 1,075.23             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,132.11              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,563.34               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,334.20               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,094.77               |                      |
| 40 05 19 00-0900 | EA  |     | 20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,218.87              | 1,079.17             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,164.21              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,607.19               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,399.42               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,181.08               |                      |
| 40 05 19 00-0901 | EA  |     | 20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,516.66              | 1,083.11             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,196.31              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,651.03               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,464.64               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,267.38               |                      |
| 40 05 19 00-0902 | EA  |     | 20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,814.46              | 1,087.05             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,228.42              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,694.88               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,529.86               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,353.68               |                      |
| 40 05 19 00-0903 | EA  |     | 20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,112.24              | 1,090.99             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,260.52              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,738.72               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,595.08               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,439.98               |                      |
| 40 05 19 00-0904 | EA  |     | 20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,410.03              | 1,094.93             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,292.62              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,782.57               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,660.30               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,526.28               |                      |
| 40 05 19 00-0905 | EA  |     | 20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,707.82              | 1,098.86             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,324.72              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,826.41               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,725.52               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,612.58               |                      |
| 40 05 19 00-0906 | EA  |     | 20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,005.61              | 1,102.80             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,356.82              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,870.26               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,790.74               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,698.89               |                      |
| 40 05 19 00-0907 | EA  |     | 20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,303.40              | 1,106.74             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,388.92              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,914.10               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,855.96               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,785.19               |                      |
| 40 05 19 00-0908 | EA  |     | 20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,601.19              | 1,110.68             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,421.02              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,957.95               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,921.18               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,871.49               |                      |
| 40 05 19 00-0909 | EA  |     | 20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,898.98              | 1,114.62             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,453.12              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,001.79               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,986.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,957.79               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0910 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 15,196.76                 | 1,118.56                |
| For Class 52 Rating, Deduct  | -1,485.22                 |                         |
| For Class 54 Rating, Add   | 2,045.63                  |                         |
| For Class 55 Rating, Add   | 3,051.62                  |                         |
| For Class 56 Rating, Add   | 4,044.10                  |                         |
| <b>40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small></b> |                           |                         |
| 40 05 19 00-0912 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 5,159.78                  | 1,150.06                |
| For Class 52 Rating, Deduct  | -375.90                   |                         |
| For Class 54 Rating, Add   | 533.50                    |                         |
| For Class 55 Rating, Add   | 803.87                    |                         |
| For Class 56 Rating, Add   | 1,070.82                  |                         |
| 40 05 19 00-0913 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 5,527.35                  | 1,154.01                |
| For Class 52 Rating, Deduct  | -415.67                   |                         |
| For Class 54 Rating, Add   | 587.81                    |                         |
| For Class 55 Rating, Add   | 884.65                    |                         |
| For Class 56 Rating, Add   | 1,177.71                  |                         |
| 40 05 19 00-0914 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 5,894.93                  | 1,157.94                |
| For Class 52 Rating, Deduct  | -455.45                   |                         |
| For Class 54 Rating, Add   | 642.12                    |                         |
| For Class 55 Rating, Add   | 965.43                    |                         |
| For Class 56 Rating, Add   | 1,284.60                  |                         |
| 40 05 19 00-0915 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 6,262.50                  | 1,161.88                |
| For Class 52 Rating, Deduct  | -495.23                   |                         |
| For Class 54 Rating, Add   | 696.44                    |                         |
| For Class 55 Rating, Add   | 1,046.21                  |                         |
| For Class 56 Rating, Add   | 1,391.49                  |                         |
| 40 05 19 00-0916 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 6,630.07                  | 1,165.82                |
| For Class 52 Rating, Deduct  | -535.00                   |                         |
| For Class 54 Rating, Add   | 750.75                    |                         |
| For Class 55 Rating, Add   | 1,126.99                  |                         |
| For Class 56 Rating, Add   | 1,498.37                  |                         |
| 40 05 19 00-0917 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 6,997.64                  | 1,169.75                |
| For Class 52 Rating, Deduct  | -574.78                   |                         |
| For Class 54 Rating, Add   | 805.06                    |                         |
| For Class 55 Rating, Add   | 1,207.77                  |                         |
| For Class 56 Rating, Add   | 1,605.26                  |                         |
| 40 05 19 00-0918 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 7,365.21                  | 1,173.70                |
| For Class 52 Rating, Deduct  | -614.56                   |                         |
| For Class 54 Rating, Add   | 859.37                    |                         |
| For Class 55 Rating, Add   | 1,288.55                  |                         |
| For Class 56 Rating, Add   | 1,712.15                  |                         |
| 40 05 19 00-0919 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 7,732.78                  | 1,177.64                |
| For Class 52 Rating, Deduct  | -654.33                   |                         |
| For Class 54 Rating, Add   | 913.68                    |                         |
| For Class 55 Rating, Add   | 1,369.33                  |                         |
| For Class 56 Rating, Add   | 1,819.04                  |                         |
| 40 05 19 00-0920 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 8,100.36                  | 1,181.57                |
| For Class 52 Rating, Deduct  | -694.11                   |                         |
| For Class 54 Rating, Add   | 968.00                    |                         |
| For Class 55 Rating, Add   | 1,450.12                  |                         |
| For Class 56 Rating, Add   | 1,925.93                  |                         |
| 40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 8,467.92                  | 1,185.51                |
| For Class 52 Rating, Deduct  | -733.89                   |                         |
| For Class 54 Rating, Add   | 1,022.31                  |                         |
| For Class 55 Rating, Add   | 1,530.90                  |                         |
| For Class 56 Rating, Add   | 2,032.81                  |                         |
| 40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 8,835.49                  | 1,189.45                |
| For Class 52 Rating, Deduct  | -773.66                   |                         |
| For Class 54 Rating, Add   | 1,076.62                  |                         |
| For Class 55 Rating, Add   | 1,611.68                  |                         |
| For Class 56 Rating, Add   | 2,139.70                  |                         |
| 40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                           | 9,203.07                  | 1,193.38                |
| For Class 52 Rating, Deduct  | -813.44                   |                         |
| For Class 54 Rating, Add   | 1,130.93                  |                         |
| For Class 55 Rating, Add   | 1,692.46                  |                         |
| For Class 56 Rating, Add   | 2,246.59                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-0924 | EA  |     | 24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 9,570.63                  | 1,197.33                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -853.22                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,185.24                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,773.24                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,353.48                  |                         |
| 40 05 19 00-0925 | EA  |     | 24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 9,938.20                  | 1,201.27                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -892.99                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,239.56                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,854.02                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,460.36                  |                         |
| 40 05 19 00-0926 | EA  |     | 24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 10,305.78                 | 1,205.20                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -932.77                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,293.87                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,934.80                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,567.25                  |                         |
| 40 05 19 00-0927 | EA  |     | 24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 10,673.34                 | 1,209.14                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -972.54                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,348.18                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,015.58                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,674.14                  |                         |
| 40 05 19 00-0928 | EA  |     | 24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 11,040.91                 | 1,213.08                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,012.32                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,402.49                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,096.36                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,781.03                  |                         |
| 40 05 19 00-0929 | EA  |     | 24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 11,408.49                 | 1,217.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,052.10                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,456.81                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,177.14                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,887.92                  |                         |
| 40 05 19 00-0930 | EA  |     | 24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,776.06                 | 1,220.96                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,091.87                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,511.12                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,257.92                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,994.80                  |                         |
| 40 05 19 00-0931 | EA  |     | 24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,143.62                 | 1,224.90                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,131.65                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,565.43                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,338.70                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,101.69                  |                         |
| 40 05 19 00-0932 | EA  |     | 24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,511.20                 | 1,228.84                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,171.43                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,619.74                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,419.49                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,208.58                  |                         |
| 40 05 19 00-0933 | EA  |     | 24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,878.78                 | 1,232.77                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,211.20                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,674.05                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,500.27                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,315.47                  |                         |
| 40 05 19 00-0934 | EA  |     | 24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,246.34                 | 1,236.72                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,250.98                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,728.37                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,581.05                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,422.35                  |                         |
| 40 05 19 00-0935 | EA  |     | 24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,613.92                 | 1,240.66                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,290.76                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,782.68                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,661.83                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,529.24                  |                         |
| 40 05 19 00-0936 | EA  |     | 24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,981.49                 | 1,244.59                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,330.53                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,836.99                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,742.61                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,636.13                  |                         |
| 40 05 19 00-0937 | EA  |     | 24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,349.05                 | 1,248.53                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,370.31                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,891.30                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,823.39                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,743.02                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

40

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0938 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 14,716.63                 | 1,252.47                |
| For Class 52 Rating, Deduct  | -1,410.08                 |                         |
| For Class 54 Rating, Add   | 1,945.61                  |                         |
| For Class 55 Rating, Add   | 2,904.17                  |                         |
| For Class 56 Rating, Add   | 3,849.91                  |                         |
| 40 05 19 00-0939 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 15,084.20                 | 1,256.40                |
| For Class 52 Rating, Deduct  | -1,449.86                 |                         |
| For Class 54 Rating, Add   | 1,999.93                  |                         |
| For Class 55 Rating, Add   | 2,984.95                  |                         |
| For Class 56 Rating, Add   | 3,956.79                  |                         |
| 40 05 19 00-0940 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 15,451.77                 | 1,260.35                |
| For Class 52 Rating, Deduct  | -1,489.64                 |                         |
| For Class 54 Rating, Add   | 2,054.24                  |                         |
| For Class 55 Rating, Add   | 3,065.73                  |                         |
| For Class 56 Rating, Add   | 4,063.68                  |                         |
| 40 05 19 00-0941 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 15,920.79                 | 1,331.24                |
| For Class 52 Rating, Deduct  | -1,529.41                 |                         |
| For Class 54 Rating, Add   | 2,109.77                  |                         |
| For Class 55 Rating, Add   | 3,148.95                  |                         |
| For Class 56 Rating, Add   | 4,174.22                  |                         |
| 40 05 19 00-0942 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 16,288.36                 | 1,335.18                |
| For Class 52 Rating, Deduct  | -1,569.19                 |                         |
| For Class 54 Rating, Add   | 2,164.08                  |                         |
| For Class 55 Rating, Add   | 3,229.73                  |                         |
| For Class 56 Rating, Add   | 4,281.11                  |                         |
| 40 05 19 00-0943 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 16,655.93                 | 1,339.11                |
| For Class 52 Rating, Deduct  | -1,608.97                 |                         |
| For Class 54 Rating, Add   | 2,218.39                  |                         |
| For Class 55 Rating, Add   | 3,310.51                  |                         |
| For Class 56 Rating, Add   | 4,388.00                  |                         |
| 40 05 19 00-0944 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 17,023.50                 | 1,343.05                |
| For Class 52 Rating, Deduct  | -1,648.74                 |                         |
| For Class 54 Rating, Add   | 2,272.70                  |                         |
| For Class 55 Rating, Add   | 3,391.29                  |                         |
| For Class 56 Rating, Add   | 4,494.89                  |                         |
| 40 05 19 00-0945 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 17,391.07                 | 1,347.00                |
| For Class 52 Rating, Deduct  | -1,688.52                 |                         |
| For Class 54 Rating, Add   | 2,327.02                  |                         |
| For Class 55 Rating, Add   | 3,472.07                  |                         |
| For Class 56 Rating, Add   | 4,601.77                  |                         |
| 40 05 19 00-0946 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 17,758.65                 | 1,350.93                |
| For Class 52 Rating, Deduct  | -1,728.30                 |                         |
| For Class 54 Rating, Add   | 2,381.33                  |                         |
| For Class 55 Rating, Add   | 3,552.85                  |                         |
| For Class 56 Rating, Add   | 4,708.66                  |                         |
| 40 05 19 00-0947 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 18,126.21                 | 1,354.87                |
| For Class 52 Rating, Deduct  | -1,768.07                 |                         |
| For Class 54 Rating, Add   | 2,435.64                  |                         |
| For Class 55 Rating, Add   | 3,633.63                  |                         |
| For Class 56 Rating, Add   | 4,815.55                  |                         |
| 40 05 19 00-0948 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 18,493.78                 | 1,358.81                |
| For Class 52 Rating, Deduct  | -1,807.85                 |                         |
| For Class 54 Rating, Add   | 2,489.95                  |                         |
| For Class 55 Rating, Add   | 3,714.41                  |                         |
| For Class 56 Rating, Add   | 4,922.44                  |                         |
| 40 05 19 00-0949 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                               |                           |                         |
| Pipe .....   | 18,861.36                 | 1,362.74                |
| For Class 52 Rating, Deduct  | -1,847.62                 |                         |
| For Class 54 Rating, Add   | 2,544.27                  |                         |
| For Class 55 Rating, Add   | 3,795.19                  |                         |
| For Class 56 Rating, Add   | 5,029.33                  |                         |
| <br>40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined,<br>Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small> |                           |                         |
| 40 05 19 00-0951 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron                                |                           |                         |
| Pipe .....   | 7,914.40                  | 1,622.69                |
| For Class 52 Rating, Deduct  | -600.13                   |                         |
| For Class 54 Rating, Add   | 847.87                    |                         |
| For Class 55 Rating, Add   | 1,275.64                  |                         |
| For Class 56 Rating, Add   | 1,697.96                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0952 | EA  |     | 30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 8,442.69               | 1,626.64             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -657.59                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 926.29                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,392.26               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,852.26               |                      |
| 40 05 19 00-0953 | EA  |     | 30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 8,970.97               | 1,630.57             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -715.04                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,004.71               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,508.88               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,006.56               |                      |
| 40 05 19 00-0954 | EA  |     | 30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 9,499.25               | 1,634.51             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -772.50                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,083.13               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,625.50               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,160.86               |                      |
| 40 05 19 00-0955 | EA  |     | 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 10,027.54              | 1,638.45             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -829.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,161.55               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,742.12               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,315.16               |                      |
| 40 05 19 00-0956 | EA  |     | 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 10,555.82              | 1,642.38             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -887.41                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,239.96               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,858.74               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,469.45               |                      |
| 40 05 19 00-0957 | EA  |     | 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,084.10              | 1,646.33             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -944.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,318.38               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,975.36               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,623.75               |                      |
| 40 05 19 00-0958 | EA  |     | 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 11,612.38              | 1,650.27             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,002.32              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,396.80               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,091.98               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,778.05               |                      |
| 40 05 19 00-0959 | EA  |     | 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,140.67              | 1,654.20             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,059.77              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,475.22               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,208.60               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,932.35               |                      |
| 40 05 19 00-0960 | EA  |     | 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 12,668.95              | 1,658.14             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,117.23              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,553.64               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,325.22               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,086.65               |                      |
| 40 05 19 00-0961 | EA  |     | 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,197.23              | 1,662.08             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,174.68              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,632.06               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,441.84               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,240.94               |                      |
| 40 05 19 00-0962 | EA  |     | 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 13,725.52              | 1,666.01             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,232.14              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,710.48               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,558.46               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,395.24               |                      |
| 40 05 19 00-0963 | EA  |     | 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,253.80              | 1,669.96             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,289.59              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,788.90               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,675.08               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,549.54               |                      |
| 40 05 19 00-0964 | EA  |     | 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 14,782.08              | 1,673.90             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,347.05              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,867.32               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,791.70               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,703.84               |                      |
| 40 05 19 00-0965 | EA  |     | 30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 15,310.37              | 1,677.83             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,404.50              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,945.74               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,908.32               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,858.14               |                      |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

40

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 15,838.66                 | 1,681.77                |
| For Class 52 Rating, Deduct  | -1,461.96                 |                         |
| For Class 54 Rating, Add   | 2,024.15                  |                         |
| For Class 55 Rating, Add   | 3,024.94                  |                         |
| For Class 56 Rating, Add   | 4,012.43                  |                         |
| 40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 16,366.94                 | 1,685.71                |
| For Class 52 Rating, Deduct  | -1,519.41                 |                         |
| For Class 54 Rating, Add   | 2,102.57                  |                         |
| For Class 55 Rating, Add   | 3,141.56                  |                         |
| For Class 56 Rating, Add   | 4,166.73                  |                         |
| 40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  |                           |                         |
| Pipe   | 16,895.22                 | 1,689.65                |
| For Class 52 Rating, Deduct  | -1,576.87                 |                         |
| For Class 54 Rating, Add   | 2,180.99                  |                         |
| For Class 55 Rating, Add   | 3,258.18                  |                         |
| For Class 56 Rating, Add   | 4,321.03                  |                         |
| 40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 17,423.51                 | 1,693.59                |
| For Class 52 Rating, Deduct  | -1,634.32                 |                         |
| For Class 54 Rating, Add   | 2,259.41                  |                         |
| For Class 55 Rating, Add   | 3,374.80                  |                         |
| For Class 56 Rating, Add   | 4,475.33                  |                         |
| 40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 17,951.79                 | 1,697.53                |
| For Class 52 Rating, Deduct  | -1,691.78                 |                         |
| For Class 54 Rating, Add   | 2,337.83                  |                         |
| For Class 55 Rating, Add   | 3,491.42                  |                         |
| For Class 56 Rating, Add   | 4,629.63                  |                         |
| 40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 18,480.07                 | 1,701.47                |
| For Class 52 Rating, Deduct  | -1,749.23                 |                         |
| For Class 54 Rating, Add   | 2,416.25                  |                         |
| For Class 55 Rating, Add   | 3,608.04                  |                         |
| For Class 56 Rating, Add   | 4,783.92                  |                         |
| 40 05 19 00-0972 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 19,008.36                 | 1,705.40                |
| For Class 52 Rating, Deduct  | -1,806.69                 |                         |
| For Class 54 Rating, Add   | 2,494.67                  |                         |
| For Class 55 Rating, Add   | 3,724.66                  |                         |
| For Class 56 Rating, Add   | 4,938.22                  |                         |
| 40 05 19 00-0973 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 19,536.64                 | 1,709.34                |
| For Class 52 Rating, Deduct  | -1,864.14                 |                         |
| For Class 54 Rating, Add   | 2,573.09                  |                         |
| For Class 55 Rating, Add   | 3,841.28                  |                         |
| For Class 56 Rating, Add   | 5,092.52                  |                         |
| 40 05 19 00-0974 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 20,064.92                 | 1,713.29                |
| For Class 52 Rating, Deduct  | -1,921.59                 |                         |
| For Class 54 Rating, Add   | 2,651.51                  |                         |
| For Class 55 Rating, Add   | 3,957.90                  |                         |
| For Class 56 Rating, Add   | 5,246.82                  |                         |
| 40 05 19 00-0975 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 20,593.21                 | 1,717.22                |
| For Class 52 Rating, Deduct  | -1,979.05                 |                         |
| For Class 54 Rating, Add   | 2,729.93                  |                         |
| For Class 55 Rating, Add   | 4,074.52                  |                         |
| For Class 56 Rating, Add   | 5,401.12                  |                         |
| 40 05 19 00-0976 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 21,121.49                 | 1,721.16                |
| For Class 52 Rating, Deduct  | -2,036.50                 |                         |
| For Class 54 Rating, Add   | 2,808.34                  |                         |
| For Class 55 Rating, Add   | 4,191.14                  |                         |
| For Class 56 Rating, Add   | 5,555.41                  |                         |
| 40 05 19 00-0977 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 21,649.77                 | 1,725.10                |
| For Class 52 Rating, Deduct  | -2,093.96                 |                         |
| For Class 54 Rating, Add   | 2,886.76                  |                         |
| For Class 55 Rating, Add   | 4,307.76                  |                         |
| For Class 56 Rating, Add   | 5,709.71                  |                         |
| 40 05 19 00-0978 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 22,178.06                 | 1,729.03                |
| For Class 52 Rating, Deduct  | -2,151.41                 |                         |
| For Class 54 Rating, Add   | 2,965.18                  |                         |
| For Class 55 Rating, Add   | 4,424.38                  |                         |
| For Class 56 Rating, Add   | 5,864.01                  |                         |
| 40 05 19 00-0979 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe   | 22,706.34                 | 1,732.98                |
| For Class 52 Rating, Deduct  | -2,208.87                 |                         |
| For Class 54 Rating, Add   | 3,043.60                  |                         |
| For Class 55 Rating, Add   | 4,541.00                  |                         |
| For Class 56 Rating, Add   | 6,018.31                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-0980 | EA  |     | 30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 23,234.62              | 1,736.92             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,266.32              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,122.02               |                      |
|                  |     |     | For Class 55 Rating, Add   | 4,657.62               |                      |
|                  |     |     | For Class 56 Rating, Add   | 6,172.61               |                      |
| 40 05 19 00-0981 | EA  |     | 30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 23,762.90              | 1,740.85             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,323.78              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,200.44               |                      |
|                  |     |     | For Class 55 Rating, Add   | 4,774.23               |                      |
|                  |     |     | For Class 56 Rating, Add   | 6,326.90               |                      |
| 40 05 19 00-0982 | EA  |     | 30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 24,291.19              | 1,744.79             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,381.23              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,278.86               |                      |
|                  |     |     | For Class 55 Rating, Add   | 4,890.85               |                      |
|                  |     |     | For Class 56 Rating, Add   | 6,481.20               |                      |
| 40 05 19 00-0983 | EA  |     | 30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 24,819.48              | 1,748.73             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,438.69              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,357.28               |                      |
|                  |     |     | For Class 55 Rating, Add   | 5,007.48               |                      |
|                  |     |     | For Class 56 Rating, Add   | 6,635.50               |                      |
| 40 05 19 00-0984 | EA  |     | 30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 25,347.75              | 1,752.66             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,496.14              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,435.70               |                      |
|                  |     |     | For Class 55 Rating, Add   | 5,124.09               |                      |
|                  |     |     | For Class 56 Rating, Add   | 6,789.80               |                      |
| 40 05 19 00-0985 | EA  |     | 30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 25,876.05              | 1,756.61             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,553.60              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,514.12               |                      |
|                  |     |     | For Class 55 Rating, Add   | 5,240.71               |                      |
|                  |     |     | For Class 56 Rating, Add   | 6,944.10               |                      |
| 40 05 19 00-0986 | EA  |     | 30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 26,404.33              | 1,760.55             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,611.05              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,592.53               |                      |
|                  |     |     | For Class 55 Rating, Add   | 5,357.33               |                      |
|                  |     |     | For Class 56 Rating, Add   | 7,098.39               |                      |
| 40 05 19 00-0987 | EA  |     | 30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 26,932.61              | 1,764.48             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,668.51              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,670.95               |                      |
|                  |     |     | For Class 55 Rating, Add   | 5,473.95               |                      |
|                  |     |     | For Class 56 Rating, Add   | 7,252.69               |                      |
| 40 05 19 00-0988 | EA  |     | 30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe              | 27,460.90              | 1,768.42             |
|                  |     |     | For Class 52 Rating, Deduct  | -2,725.96              |                      |
|                  |     |     | For Class 54 Rating, Add   | 3,749.37               |                      |
|                  |     |     | For Class 55 Rating, Add   | 5,590.57               |                      |
|                  |     |     | For Class 56 Rating, Add   | 7,406.99               |                      |
| 40 05 19 00-0989 |     |     | <b>36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> (40 05 19 00-0554) |                        |                      |
| 40 05 19 00-0990 | EA  |     | 36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe               | 10,806.01              | 2,055.94             |
|                  |     |     | For Class 52 Rating, Deduct  | -846.00                |                      |
|                  |     |     | For Class 54 Rating, Add   | 1,191.02               |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,789.84               |                      |
|                  |     |     | For Class 56 Rating, Add   | 2,380.97               |                      |
| 40 05 19 00-0991 | EA  |     | 36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe               | 11,522.49              | 2,059.88             |
|                  |     |     | For Class 52 Rating, Deduct  | -924.16                |                      |
|                  |     |     | For Class 54 Rating, Add   | 1,297.67               |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,948.43               |                      |
|                  |     |     | For Class 56 Rating, Add   | 2,590.79               |                      |
| 40 05 19 00-0992 | EA  |     | 36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe               | 12,238.98              | 2,063.82             |
|                  |     |     | For Class 52 Rating, Deduct  | -1,002.32              |                      |
|                  |     |     | For Class 54 Rating, Add   | 1,404.32               |                      |
|                  |     |     | For Class 55 Rating, Add   | 2,107.02               |                      |
|                  |     |     | For Class 56 Rating, Add   | 2,800.61               |                      |
| 40 05 19 00-0993 | EA  |     | 36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe               | 12,955.46              | 2,067.75             |
|                  |     |     | For Class 52 Rating, Deduct  | -1,080.48              |                      |
|                  |     |     | For Class 54 Rating, Add   | 1,510.97               |                      |
|                  |     |     | For Class 55 Rating, Add   | 2,265.61               |                      |
|                  |     |     | For Class 56 Rating, Add   | 3,010.42               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 13,671.95                 | 2,071.69                |
| <i>For Class 52 Rating, Deduct</i>  | -1,158.63                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,617.62                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,424.20                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,220.24                  |                         |
| 40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 14,388.44                 | 2,075.64                |
| <i>For Class 52 Rating, Deduct</i>  | -1,236.79                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,724.27                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,582.79                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,430.06                  |                         |
| 40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 15,104.93                 | 2,079.57                |
| <i>For Class 52 Rating, Deduct</i>  | -1,314.95                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,830.92                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,741.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,639.88                  |                         |
| 40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 15,821.41                 | 2,083.51                |
| <i>For Class 52 Rating, Deduct</i>  | -1,393.10                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,937.57                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,899.97                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,849.70                  |                         |
| 40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 16,537.90                 | 2,087.45                |
| <i>For Class 52 Rating, Deduct</i>  | -1,471.26                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,044.22                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,058.55                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,059.52                  |                         |
| 40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 17,254.39                 | 2,091.38                |
| <i>For Class 52 Rating, Deduct</i>  | -1,549.42                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,150.87                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,217.14                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,269.33                  |                         |
| 40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 17,970.87                 | 2,095.32                |
| <i>For Class 52 Rating, Deduct</i>  | -1,627.58                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,257.52                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,375.73                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,479.15                  |                         |
| 40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 18,687.36                 | 2,099.27                |
| <i>For Class 52 Rating, Deduct</i>  | -1,705.73                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,364.17                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,534.32                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,688.97                  |                         |
| 40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 19,403.84                 | 2,103.20                |
| <i>For Class 52 Rating, Deduct</i>  | -1,783.89                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,470.82                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,692.91                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,898.79                  |                         |
| 40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 20,120.32                 | 2,107.14                |
| <i>For Class 52 Rating, Deduct</i>  | -1,862.05                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,577.47                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,851.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,108.60                  |                         |
| 40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 20,836.81                 | 2,111.08                |
| <i>For Class 52 Rating, Deduct</i>  | -1,940.20                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,684.11                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,010.09                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,318.42                  |                         |
| 40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 21,553.30                 | 2,115.01                |
| <i>For Class 52 Rating, Deduct</i>  | -2,018.36                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,790.76                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,168.68                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,528.24                  |                         |
| 40 05 19 00-1006 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 22,269.79                 | 2,118.96                |
| <i>For Class 52 Rating, Deduct</i>  | -2,096.52                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,897.41                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,327.27                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,738.06                  |                         |
| 40 05 19 00-1007 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe | 22,986.27                 | 2,122.90                |
| <i>For Class 52 Rating, Deduct</i>  | -2,174.67                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,004.06                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,485.85                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,947.88                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-1008 | EA  |     | 36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 23,702.76              | 2,126.83             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,252.83              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,110.71               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 4,644.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,157.69               |                      |
| 40 05 19 00-1009 | EA  |     | 36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 24,419.26              | 2,130.77             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,330.99              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,217.36               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 4,803.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,367.51               |                      |
| 40 05 19 00-1010 | EA  |     | 36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 25,135.74              | 2,134.71             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,409.15              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,324.01               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 4,961.62               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,577.33               |                      |
| 40 05 19 00-1011 | EA  |     | 36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 25,852.23              | 2,138.64             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,487.30              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,430.66               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,120.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,787.15               |                      |
| 40 05 19 00-1012 | EA  |     | 36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 26,568.71              | 2,142.59             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,565.46              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,537.31               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,278.80               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,996.96               |                      |
| 40 05 19 00-1013 | EA  |     | 36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 27,285.19              | 2,146.53             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,643.62              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,643.96               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,437.39               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,206.78               |                      |
| 40 05 19 00-1014 | EA  |     | 36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 28,001.68              | 2,150.46             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,721.77              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,750.61               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,595.98               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,416.60               |                      |
| 40 05 19 00-1015 | EA  |     | 36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 28,718.17              | 2,154.40             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,799.93              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,857.26               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,754.57               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,626.42               |                      |
| 40 05 19 00-1016 | EA  |     | 36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 29,434.66              | 2,158.34             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,878.09              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,963.91               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,913.16               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,836.24               |                      |
| 40 05 19 00-1017 | EA  |     | 36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 30,151.14              | 2,162.28             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,956.25              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,070.56               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,071.74               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,046.06               |                      |
| 40 05 19 00-1018 | EA  |     | 36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 30,867.63              | 2,166.22             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,034.40              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,177.21               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,230.33               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,255.87               |                      |
| 40 05 19 00-1019 | EA  |     | 36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 31,584.12              | 2,170.16             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,112.56              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,283.86               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,388.92               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,465.69               |                      |
| 40 05 19 00-1020 | EA  |     | 36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 32,300.60              | 2,174.09             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,190.72              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,390.51               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,547.51               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,675.51               |                      |
| 40 05 19 00-1021 | EA  |     | 36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 33,017.09              | 2,178.03             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,268.87              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,497.16               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,706.10               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,885.33               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1022 EA 36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                 | 33,733.58                 | 2,181.97                |
| For Class 52 Rating, Deduct  | -3,347.03                 |                         |
| For Class 54 Rating, Add   | 4,603.81                  |                         |
| For Class 55 Rating, Add   | 6,864.69                  |                         |
| For Class 56 Rating, Add   | 9,095.15                  |                         |
| 40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                 | 34,450.05                 | 2,185.92                |
| For Class 52 Rating, Deduct  | -3,425.19                 |                         |
| For Class 54 Rating, Add   | 4,710.45                  |                         |
| For Class 55 Rating, Add   | 7,023.28                  |                         |
| For Class 56 Rating, Add   | 9,304.96                  |                         |
| 40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                 | 35,166.54                 | 2,189.85                |
| For Class 52 Rating, Deduct  | -3,503.34                 |                         |
| For Class 54 Rating, Add   | 4,817.10                  |                         |
| For Class 55 Rating, Add   | 7,181.87                  |                         |
| For Class 56 Rating, Add   | 9,514.78                  |                         |
| 40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                 | 35,883.03                 | 2,193.79                |
| For Class 52 Rating, Deduct  | -3,581.50                 |                         |
| For Class 54 Rating, Add   | 4,923.75                  |                         |
| For Class 55 Rating, Add   | 7,340.46                  |                         |
| For Class 56 Rating, Add   | 9,724.60                  |                         |
| 40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                 | 36,599.52                 | 2,197.73                |
| For Class 52 Rating, Deduct  | -3,659.66                 |                         |
| For Class 54 Rating, Add   | 5,030.40                  |                         |
| For Class 55 Rating, Add   | 7,499.04                  |                         |
| For Class 56 Rating, Add   | 9,934.42                  |                         |
| 40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                 | 37,316.00                 | 2,201.66                |
| For Class 52 Rating, Deduct  | -3,737.82                 |                         |
| For Class 54 Rating, Add   | 5,137.05                  |                         |
| For Class 55 Rating, Add   | 7,657.63                  |                         |
| For Class 56 Rating, Add   | 10,144.23                 |                         |
| 40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat,<br>Ductile Iron Pipe <small>(40 05 19 00-0001)</small>              |                           |                         |
| 40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous<br>Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 598.46                    | 192.62                  |
| For Class 52 Rating, Deduct  | -33.73                    |                         |
| For Class 54 Rating, Add   | 49.50                     |                         |
| For Class 55 Rating, Add   | 75.38                     |                         |
| For Class 56 Rating, Add   | 100.96                    |                         |
| 40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 658.55                    | 195.99                  |
| For Class 52 Rating, Deduct  | -39.78                    |                         |
| For Class 54 Rating, Add   | 57.80                     |                         |
| For Class 55 Rating, Add   | 87.76                     |                         |
| For Class 56 Rating, Add   | 117.36                    |                         |
| 40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 718.63                    | 199.36                  |
| For Class 52 Rating, Deduct  | -45.82                    |                         |
| For Class 54 Rating, Add   | 66.11                     |                         |
| For Class 55 Rating, Add   | 100.15                    |                         |
| For Class 56 Rating, Add   | 133.76                    |                         |
| 40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 778.71                    | 202.72                  |
| For Class 52 Rating, Deduct  | -51.87                    |                         |
| For Class 54 Rating, Add   | 74.42                     |                         |
| For Class 55 Rating, Add   | 112.53                    |                         |
| For Class 56 Rating, Add   | 150.17                    |                         |
| 40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 838.80                    | 206.09                  |
| For Class 52 Rating, Deduct  | -57.92                    |                         |
| For Class 54 Rating, Add   | 82.73                     |                         |
| For Class 55 Rating, Add   | 124.91                    |                         |
| For Class 56 Rating, Add   | 166.57                    |                         |
| 40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 898.89                    | 209.46                  |
| For Class 52 Rating, Deduct  | -63.97                    |                         |
| For Class 54 Rating, Add   | 91.04                     |                         |
| For Class 55 Rating, Add   | 137.30                    |                         |
| For Class 56 Rating, Add   | 182.98                    |                         |
| 40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe                | 958.97                    | 212.83                  |
| For Class 52 Rating, Deduct  | -70.02                    |                         |
| For Class 54 Rating, Add   | 99.35                     |                         |
| For Class 55 Rating, Add   | 149.68                    |                         |
| For Class 56 Rating, Add   | 199.38                    |                         |



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-1037 | EA  |     | 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,019.05               | 216.19               |
|                  |     |     | For Class 52 Rating, Deduct   | -76.06                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 107.65                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 162.06                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 215.78                 |                      |
| 40 05 19 00-1038 | EA  |     | 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,079.13               | 219.56               |
|                  |     |     | For Class 52 Rating, Deduct   | -82.11                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 115.96                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 174.45                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 232.18                 |                      |
| 40 05 19 00-1039 | EA  |     | 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,139.21               | 222.93               |
|                  |     |     | For Class 52 Rating, Deduct   | -88.16                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 124.27                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 186.83                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 248.59                 |                      |
| 40 05 19 00-1040 | EA  |     | 4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,199.30               | 226.29               |
|                  |     |     | For Class 52 Rating, Deduct   | -94.21                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 132.58                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 199.21                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 264.99                 |                      |
| 40 05 19 00-1041 | EA  |     | 4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,259.38               | 229.66               |
|                  |     |     | For Class 52 Rating, Deduct   | -100.26                |                      |
|                  |     |     | For Class 54 Rating, Add  | 140.89                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 211.60                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 281.39                 |                      |
| 40 05 19 00-1042 | EA  |     | 4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,319.46               | 233.03               |
|                  |     |     | For Class 52 Rating, Deduct   | -106.30                |                      |
|                  |     |     | For Class 54 Rating, Add  | 149.20                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 223.98                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 297.80                 |                      |
| 40 05 19 00-1043 | EA  |     | 4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,379.54               | 236.40               |
|                  |     |     | For Class 52 Rating, Deduct   | -112.35                |                      |
|                  |     |     | For Class 54 Rating, Add  | 157.50                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 236.36                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 314.20                 |                      |
| 40 05 19 00-1044 | EA  |     | 4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,439.62               | 239.76               |
|                  |     |     | For Class 52 Rating, Deduct   | -118.40                |                      |
|                  |     |     | For Class 54 Rating, Add  | 165.81                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 248.74                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 330.60                 |                      |
| 40 05 19 00-1045 | EA  |     | 4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,499.71               | 243.13               |
|                  |     |     | For Class 52 Rating, Deduct   | -124.45                |                      |
|                  |     |     | For Class 54 Rating, Add  | 174.12                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 261.13                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 347.00                 |                      |
| 40 05 19 00-1046 | EA  |     | 4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,559.79               | 246.51               |
|                  |     |     | For Class 52 Rating, Deduct   | -130.49                |                      |
|                  |     |     | For Class 54 Rating, Add  | 182.43                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 273.51                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 363.41                 |                      |
| 40 05 19 00-1047 | EA  |     | 4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 1,619.87               | 249.86               |
|                  |     |     | For Class 52 Rating, Deduct   | -136.54                |                      |
|                  |     |     | For Class 54 Rating, Add  | 190.74                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 285.89                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 379.81                 |                      |
| 40 05 19 00-1048 | EA  |     | 4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,679.95               | 253.24               |
|                  |     |     | For Class 52 Rating, Deduct   | -142.59                |                      |
|                  |     |     | For Class 54 Rating, Add  | 199.04                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 298.28                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 396.21                 |                      |
| 40 05 19 00-1049 | EA  |     | 4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,740.05               | 256.60               |
|                  |     |     | For Class 52 Rating, Deduct   | -148.64                |                      |
|                  |     |     | For Class 54 Rating, Add  | 207.35                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 310.66                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 412.62                 |                      |
| 40 05 19 00-1050 | EA  |     | 4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,800.13               | 259.98               |
|                  |     |     | For Class 52 Rating, Deduct   | -154.69                |                      |
|                  |     |     | For Class 54 Rating, Add  | 215.66                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 323.04                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 429.02                 |                      |



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| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1051 EA 4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,860.21                  | 263.33                  |
| <i>For Class 52 Rating, Deduct</i>  | -160.73                   |                         |
| <i>For Class 54 Rating, Add</i>   | 223.97                    |                         |
| <i>For Class 55 Rating, Add</i>   | 335.43                    |                         |
| <i>For Class 56 Rating, Add</i>   | 445.42                    |                         |
| 40 05 19 00-1052 EA 4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,920.29                  | 266.71                  |
| <i>For Class 52 Rating, Deduct</i>  | -166.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 232.28                    |                         |
| <i>For Class 55 Rating, Add</i>   | 347.81                    |                         |
| <i>For Class 56 Rating, Add</i>   | 461.83                    |                         |
| 40 05 19 00-1053 EA 4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 1,980.37                  | 270.07                  |
| <i>For Class 52 Rating, Deduct</i>  | -172.83                   |                         |
| <i>For Class 54 Rating, Add</i>   | 240.59                    |                         |
| <i>For Class 55 Rating, Add</i>   | 360.19                    |                         |
| <i>For Class 56 Rating, Add</i>   | 478.23                    |                         |
| 40 05 19 00-1054 EA 4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,040.46                  | 273.44                  |
| <i>For Class 52 Rating, Deduct</i>  | -178.88                   |                         |
| <i>For Class 54 Rating, Add</i>   | 248.90                    |                         |
| <i>For Class 55 Rating, Add</i>   | 372.58                    |                         |
| <i>For Class 56 Rating, Add</i>   | 494.63                    |                         |
| 40 05 19 00-1055 EA 4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,100.54                  | 276.80                  |
| <i>For Class 52 Rating, Deduct</i>  | -184.93                   |                         |
| <i>For Class 54 Rating, Add</i>   | 257.20                    |                         |
| <i>For Class 55 Rating, Add</i>   | 384.96                    |                         |
| <i>For Class 56 Rating, Add</i>   | 511.03                    |                         |
| 40 05 19 00-1056 EA 4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,160.62                  | 280.18                  |
| <i>For Class 52 Rating, Deduct</i>  | -190.97                   |                         |
| <i>For Class 54 Rating, Add</i>   | 265.51                    |                         |
| <i>For Class 55 Rating, Add</i>   | 397.34                    |                         |
| <i>For Class 56 Rating, Add</i>   | 527.44                    |                         |
| 40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,220.70                  | 283.54                  |
| <i>For Class 52 Rating, Deduct</i>  | -197.02                   |                         |
| <i>For Class 54 Rating, Add</i>   | 273.82                    |                         |
| <i>For Class 55 Rating, Add</i>   | 409.73                    |                         |
| <i>For Class 56 Rating, Add</i>   | 543.84                    |                         |
| 40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,280.78                  | 286.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -203.07                   |                         |
| <i>For Class 54 Rating, Add</i>   | 282.13                    |                         |
| <i>For Class 55 Rating, Add</i>   | 422.11                    |                         |
| <i>For Class 56 Rating, Add</i>   | 560.24                    |                         |
| 40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,340.87                  | 290.27                  |
| <i>For Class 52 Rating, Deduct</i>  | -209.12                   |                         |
| <i>For Class 54 Rating, Add</i>   | 290.44                    |                         |
| <i>For Class 55 Rating, Add</i>   | 434.49                    |                         |
| <i>For Class 56 Rating, Add</i>   | 576.65                    |                         |
| 40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,400.95                  | 293.65                  |
| <i>For Class 52 Rating, Deduct</i>  | -215.16                   |                         |
| <i>For Class 54 Rating, Add</i>   | 298.74                    |                         |
| <i>For Class 55 Rating, Add</i>   | 446.87                    |                         |
| <i>For Class 56 Rating, Add</i>   | 593.05                    |                         |
| 40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,461.03                  | 297.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -221.21                   |                         |
| <i>For Class 54 Rating, Add</i>   | 307.05                    |                         |
| <i>For Class 55 Rating, Add</i>   | 459.26                    |                         |
| <i>For Class 56 Rating, Add</i>   | 609.45                    |                         |
| 40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,521.11                  | 300.38                  |
| <i>For Class 52 Rating, Deduct</i>  | -227.26                   |                         |
| <i>For Class 54 Rating, Add</i>   | 315.36                    |                         |
| <i>For Class 55 Rating, Add</i>   | 471.64                    |                         |
| <i>For Class 56 Rating, Add</i>   | 625.85                    |                         |
| 40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,581.20                  | 303.75                  |
| <i>For Class 52 Rating, Deduct</i>  | -233.31                   |                         |
| <i>For Class 54 Rating, Add</i>   | 323.67                    |                         |
| <i>For Class 55 Rating, Add</i>   | 484.02                    |                         |
| <i>For Class 56 Rating, Add</i>   | 642.26                    |                         |
| 40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,641.28                  | 307.12                  |
| <i>For Class 52 Rating, Deduct</i>  | -239.36                   |                         |
| <i>For Class 54 Rating, Add</i>   | 331.98                    |                         |
| <i>For Class 55 Rating, Add</i>   | 496.41                    |                         |
| <i>For Class 56 Rating, Add</i>   | 658.66                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-1065 | EA  |     | 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                         | 2,701.37               | 310.47               |
|                  |     |     | For Class 52 Rating, Deduct   | -245.40                |                      |
|                  |     |     | For Class 54 Rating, Add  | 340.29                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 508.79                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 675.07                 |                      |
| 40 05 19 00-1066 | EA  |     | 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                         | 2,761.45               | 313.85               |
|                  |     |     | For Class 52 Rating, Deduct   | -251.45                |                      |
|                  |     |     | For Class 54 Rating, Add  | 348.60                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 521.17                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 691.47                 |                      |
| 40 05 19 00-1067 | EA  |     | 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                         | 2,821.53               | 317.22               |
|                  |     |     | For Class 52 Rating, Deduct   | -257.50                |                      |
|                  |     |     | For Class 54 Rating, Add  | 356.90                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 533.56                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 707.87                 |                      |
| 40 05 19 00-1068 | EA  |     | 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                         | 2,881.62               | 320.59               |
|                  |     |     | For Class 52 Rating, Deduct   | -263.55                |                      |
|                  |     |     | For Class 54 Rating, Add  | 365.21                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 545.94                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 724.27                 |                      |
| 40 05 19 00-1069 |     |     | <b>6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                        |                      |
| 40 05 19 00-1070 | EA  |     | 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 750.11                 | 242.46               |
|                  |     |     | For Class 52 Rating, Deduct   | -42.10                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 61.82                  |                      |
|                  |     |     | For Class 55 Rating, Add  | 94.17                  |                      |
|                  |     |     | For Class 56 Rating, Add  | 126.14                 |                      |
| 40 05 19 00-1071 | EA  |     | 6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 822.89                 | 245.84               |
|                  |     |     | For Class 52 Rating, Deduct   | -49.55                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 72.03                  |                      |
|                  |     |     | For Class 55 Rating, Add  | 109.38                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 146.28                 |                      |
| 40 05 19 00-1072 | EA  |     | 6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 895.66                 | 249.19               |
|                  |     |     | For Class 52 Rating, Deduct   | -56.99                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 82.24                  |                      |
|                  |     |     | For Class 55 Rating, Add  | 124.60                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 166.43                 |                      |
| 40 05 19 00-1073 | EA  |     | 6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 968.43                 | 252.56               |
|                  |     |     | For Class 52 Rating, Deduct   | -64.43                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 92.46                  |                      |
|                  |     |     | For Class 55 Rating, Add  | 139.81                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 186.58                 |                      |
| 40 05 19 00-1074 | EA  |     | 6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,041.19               | 255.93               |
|                  |     |     | For Class 52 Rating, Deduct   | -71.88                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 102.67                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 155.02                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 206.72                 |                      |
| 40 05 19 00-1075 | EA  |     | 6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,113.97               | 259.29               |
|                  |     |     | For Class 52 Rating, Deduct   | -79.32                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 112.88                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 170.23                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 226.87                 |                      |
| 40 05 19 00-1076 | EA  |     | 6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,186.74               | 262.66               |
|                  |     |     | For Class 52 Rating, Deduct   | -86.76                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 123.09                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 185.45                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 247.01                 |                      |
| 40 05 19 00-1077 | EA  |     | 6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,259.51               | 266.04               |
|                  |     |     | For Class 52 Rating, Deduct   | -94.21                 |                      |
|                  |     |     | For Class 54 Rating, Add  | 133.30                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 200.66                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 267.16                 |                      |
| 40 05 19 00-1078 | EA  |     | 6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,332.28               | 269.40               |
|                  |     |     | For Class 52 Rating, Deduct   | -101.65                |                      |
|                  |     |     | For Class 54 Rating, Add  | 143.51                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 215.87                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 287.30                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1079 EA 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,405.05                  | 272.77                  |
| Pipe   | -109.09                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 153.72                    |                         |
| <i>For Class 54 Rating, Add</i>  | 231.08                    |                         |
| <i>For Class 55 Rating, Add</i>  | 307.45                    |                         |
| 40 05 19 00-1080 EA 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,477.82                  | 276.13                  |
| Pipe   | -116.54                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 163.94                    |                         |
| <i>For Class 54 Rating, Add</i>  | 246.29                    |                         |
| <i>For Class 55 Rating, Add</i>  | 327.59                    |                         |
| 40 05 19 00-1081 EA 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,550.59                  | 279.51                  |
| Pipe   | -123.98                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 174.15                    |                         |
| <i>For Class 54 Rating, Add</i>  | 261.51                    |                         |
| <i>For Class 55 Rating, Add</i>  | 347.74                    |                         |
| 40 05 19 00-1082 EA 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,623.36                  | 282.86                  |
| Pipe   | -131.42                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 184.36                    |                         |
| <i>For Class 54 Rating, Add</i>  | 276.72                    |                         |
| <i>For Class 55 Rating, Add</i>  | 367.89                    |                         |
| 40 05 19 00-1083 EA 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,696.13                  | 286.24                  |
| Pipe   | -138.87                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 194.57                    |                         |
| <i>For Class 54 Rating, Add</i>  | 291.93                    |                         |
| <i>For Class 55 Rating, Add</i>  | 388.03                    |                         |
| 40 05 19 00-1084 EA 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,768.90                  | 289.60                  |
| Pipe   | -146.31                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 204.78                    |                         |
| <i>For Class 54 Rating, Add</i>  | 307.15                    |                         |
| <i>For Class 55 Rating, Add</i>  | 408.18                    |                         |
| 40 05 19 00-1085 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,841.68                  | 292.98                  |
| Pipe   | -153.76                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 214.99                    |                         |
| <i>For Class 54 Rating, Add</i>  | 322.36                    |                         |
| <i>For Class 55 Rating, Add</i>  | 428.33                    |                         |
| 40 05 19 00-1086 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,914.45                  | 296.33                  |
| Pipe   | -161.20                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 225.21                    |                         |
| <i>For Class 54 Rating, Add</i>  | 337.57                    |                         |
| <i>For Class 55 Rating, Add</i>  | 448.47                    |                         |
| 40 05 19 00-1087 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron  | 1,987.21                  | 299.71                  |
| Pipe   | -168.64                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 235.42                    |                         |
| <i>For Class 54 Rating, Add</i>  | 352.78                    |                         |
| <i>For Class 55 Rating, Add</i>  | 468.62                    |                         |
| 40 05 19 00-1088 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,059.98                  | 303.07                  |
| Pipe   | -176.09                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 245.63                    |                         |
| <i>For Class 54 Rating, Add</i>  | 367.99                    |                         |
| <i>For Class 55 Rating, Add</i>  | 488.76                    |                         |
| 40 05 19 00-1089 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,132.76                  | 306.45                  |
| Pipe   | -183.53                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 255.84                    |                         |
| <i>For Class 54 Rating, Add</i>  | 383.21                    |                         |
| <i>For Class 55 Rating, Add</i>  | 508.91                    |                         |
| 40 05 19 00-1090 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,205.53                  | 309.80                  |
| Pipe   | -190.97                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 266.05                    |                         |
| <i>For Class 54 Rating, Add</i>  | 398.42                    |                         |
| <i>For Class 55 Rating, Add</i>  | 529.05                    |                         |
| 40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,278.30                  | 313.18                  |
| Pipe   | -198.42                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 276.26                    |                         |
| <i>For Class 54 Rating, Add</i>  | 413.63                    |                         |
| <i>For Class 55 Rating, Add</i>  | 549.20                    |                         |
| 40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,351.07                  | 316.55                  |
| Pipe   | -205.86                   |                         |
| <i>For Class 52 Rating, Deduct</i>   | 286.47                    |                         |
| <i>For Class 54 Rating, Add</i>  | 428.85                    |                         |
| <i>For Class 55 Rating, Add</i>  | 569.35                    |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-1093 | EA  |     | 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,423.83               | 319.91               |
|                  |     |     | For Class 52 Rating, Deduct   | -213.30                |                      |
|                  |     |     | For Class 54 Rating, Add  | 296.68                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 444.06                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 589.49                 |                      |
| 40 05 19 00-1094 | EA  |     | 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,496.61               | 323.28               |
|                  |     |     | For Class 52 Rating, Deduct   | -220.75                |                      |
|                  |     |     | For Class 54 Rating, Add  | 306.90                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 459.27                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 609.64                 |                      |
| 40 05 19 00-1095 | EA  |     | 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,569.38               | 326.65               |
|                  |     |     | For Class 52 Rating, Deduct   | -228.19                |                      |
|                  |     |     | For Class 54 Rating, Add  | 317.11                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 474.48                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 629.78                 |                      |
| 40 05 19 00-1096 | EA  |     | 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,642.15               | 330.02               |
|                  |     |     | For Class 52 Rating, Deduct   | -235.63                |                      |
|                  |     |     | For Class 54 Rating, Add  | 327.32                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 489.70                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 649.93                 |                      |
| 40 05 19 00-1097 | EA  |     | 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,714.92               | 333.38               |
|                  |     |     | For Class 52 Rating, Deduct   | -243.08                |                      |
|                  |     |     | For Class 54 Rating, Add  | 337.53                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 504.91                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 670.08                 |                      |
| 40 05 19 00-1098 | EA  |     | 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,787.70               | 336.75               |
|                  |     |     | For Class 52 Rating, Deduct   | -250.52                |                      |
|                  |     |     | For Class 54 Rating, Add  | 347.74                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 520.12                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 690.22                 |                      |
| 40 05 19 00-1099 | EA  |     | 6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,860.47               | 340.12               |
|                  |     |     | For Class 52 Rating, Deduct   | -257.97                |                      |
|                  |     |     | For Class 54 Rating, Add  | 357.95                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 535.33                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 710.37                 |                      |
| 40 05 19 00-1100 | EA  |     | 6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,933.23               | 343.48               |
|                  |     |     | For Class 52 Rating, Deduct   | -265.41                |                      |
|                  |     |     | For Class 54 Rating, Add  | 368.17                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 550.54                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 730.51                 |                      |
| 40 05 19 00-1101 | EA  |     | 6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,006.00               | 346.85               |
|                  |     |     | For Class 52 Rating, Deduct   | -272.85                |                      |
|                  |     |     | For Class 54 Rating, Add  | 378.38                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 565.76                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 750.66                 |                      |
| 40 05 19 00-1102 | EA  |     | 6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,078.77               | 350.22               |
|                  |     |     | For Class 52 Rating, Deduct   | -280.30                |                      |
|                  |     |     | For Class 54 Rating, Add  | 388.59                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 580.97                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 770.80                 |                      |
| 40 05 19 00-1103 | EA  |     | 6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,151.55               | 353.59               |
|                  |     |     | For Class 52 Rating, Deduct   | -287.74                |                      |
|                  |     |     | For Class 54 Rating, Add  | 398.80                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 596.18                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 790.95                 |                      |
| 40 05 19 00-1104 | EA  |     | 6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,224.32               | 356.95               |
|                  |     |     | For Class 52 Rating, Deduct   | -295.18                |                      |
|                  |     |     | For Class 54 Rating, Add  | 409.01                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 611.40                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 811.10                 |                      |
| 40 05 19 00-1105 | EA  |     | 6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,297.09               | 360.32               |
|                  |     |     | For Class 52 Rating, Deduct   | -302.63                |                      |
|                  |     |     | For Class 54 Rating, Add  | 419.22                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 626.61                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 831.24                 |                      |
| 40 05 19 00-1106 | EA  |     | 6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,369.86               | 363.69               |
|                  |     |     | For Class 52 Rating, Deduct   | -310.07                |                      |
|                  |     |     | For Class 54 Rating, Add  | 429.44                 |                      |
|                  |     |     | For Class 55 Rating, Add  | 641.82                 |                      |
|                  |     |     | For Class 56 Rating, Add  | 851.39                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....             | 3,442.62                  | 367.05                  |
| <i>For Class 52 Rating, Deduct</i>   | -317.51                   |                         |
| <i>For Class 54 Rating, Add</i>  | 439.65                    |                         |
| <i>For Class 55 Rating, Add</i>  | 657.03                    |                         |
| <i>For Class 56 Rating, Add</i>  | 871.53                    |                         |
| 40 05 19 00-1108 EA 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....             | 3,515.40                  | 370.42                  |
| <i>For Class 52 Rating, Deduct</i>   | -324.96                   |                         |
| <i>For Class 54 Rating, Add</i>  | 449.86                    |                         |
| <i>For Class 55 Rating, Add</i>  | 672.25                    |                         |
| <i>For Class 56 Rating, Add</i>  | 891.68                    |                         |
| <b>40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1110 EA 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,025.56                  | 309.80                  |
| <i>For Class 52 Rating, Deduct</i>   | -61.18                    |                         |
| <i>For Class 54 Rating, Add</i>  | 89.06                     |                         |
| <i>For Class 55 Rating, Add</i>  | 135.29                    |                         |
| <i>For Class 56 Rating, Add</i>  | 180.96                    |                         |
| 40 05 19 00-1111 EA 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,123.70                  | 313.18                  |
| <i>For Class 52 Rating, Deduct</i>   | -71.41                    |                         |
| <i>For Class 54 Rating, Add</i>  | 103.07                    |                         |
| <i>For Class 55 Rating, Add</i>  | 156.16                    |                         |
| <i>For Class 56 Rating, Add</i>  | 208.59                    |                         |
| 40 05 19 00-1112 EA 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,221.85                  | 316.55                  |
| <i>For Class 52 Rating, Deduct</i>   | -81.65                    |                         |
| <i>For Class 54 Rating, Add</i>  | 117.09                    |                         |
| <i>For Class 55 Rating, Add</i>  | 177.03                    |                         |
| <i>For Class 56 Rating, Add</i>  | 236.23                    |                         |
| 40 05 19 00-1113 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,319.99                  | 319.91                  |
| <i>For Class 52 Rating, Deduct</i>   | -91.88                    |                         |
| <i>For Class 54 Rating, Add</i>  | 131.11                    |                         |
| <i>For Class 55 Rating, Add</i>  | 197.90                    |                         |
| <i>For Class 56 Rating, Add</i>  | 263.86                    |                         |
| 40 05 19 00-1114 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,418.15                  | 323.28                  |
| <i>For Class 52 Rating, Deduct</i>   | -102.12                   |                         |
| <i>For Class 54 Rating, Add</i>  | 145.13                    |                         |
| <i>For Class 55 Rating, Add</i>  | 218.77                    |                         |
| <i>For Class 56 Rating, Add</i>  | 291.49                    |                         |
| 40 05 19 00-1115 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,516.29                  | 326.65                  |
| <i>For Class 52 Rating, Deduct</i>   | -112.35                   |                         |
| <i>For Class 54 Rating, Add</i>  | 159.14                    |                         |
| <i>For Class 55 Rating, Add</i>  | 239.64                    |                         |
| <i>For Class 56 Rating, Add</i>  | 319.12                    |                         |
| 40 05 19 00-1116 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,614.44                  | 330.02                  |
| <i>For Class 52 Rating, Deduct</i>   | -122.59                   |                         |
| <i>For Class 54 Rating, Add</i>  | 173.16                    |                         |
| <i>For Class 55 Rating, Add</i>  | 260.52                    |                         |
| <i>For Class 56 Rating, Add</i>  | 346.75                    |                         |
| 40 05 19 00-1117 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,712.58                  | 333.38                  |
| <i>For Class 52 Rating, Deduct</i>   | -132.82                   |                         |
| <i>For Class 54 Rating, Add</i>  | 187.18                    |                         |
| <i>For Class 55 Rating, Add</i>  | 281.39                    |                         |
| <i>For Class 56 Rating, Add</i>  | 374.39                    |                         |
| 40 05 19 00-1118 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,810.73                  | 336.75                  |
| <i>For Class 52 Rating, Deduct</i>   | -143.06                   |                         |
| <i>For Class 54 Rating, Add</i>  | 201.20                    |                         |
| <i>For Class 55 Rating, Add</i>  | 302.26                    |                         |
| <i>For Class 56 Rating, Add</i>  | 402.02                    |                         |
| 40 05 19 00-1119 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 1,908.88                  | 340.12                  |
| <i>For Class 52 Rating, Deduct</i>   | -153.29                   |                         |
| <i>For Class 54 Rating, Add</i>  | 215.22                    |                         |
| <i>For Class 55 Rating, Add</i>  | 323.13                    |                         |
| <i>For Class 56 Rating, Add</i>  | 429.65                    |                         |
| 40 05 19 00-1120 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....              | 2,007.02                  | 343.48                  |
| <i>For Class 52 Rating, Deduct</i>   | -163.52                   |                         |
| <i>For Class 54 Rating, Add</i>  | 229.23                    |                         |
| <i>For Class 55 Rating, Add</i>  | 344.00                    |                         |
| <i>For Class 56 Rating, Add</i>  | 457.28                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-1121 | EA  |     | 8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,105.17                  | 346.85                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -173.76                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 243.25                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 364.87                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 484.91                    |                         |
| 40 05 19 00-1122 | EA  |     | 8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,203.31                  | 350.22                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -183.99                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 257.27                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 385.74                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 512.54                    |                         |
| 40 05 19 00-1123 | EA  |     | 8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,301.46                  | 353.59                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -194.23                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 271.29                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 406.61                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 540.17                    |                         |
| 40 05 19 00-1124 | EA  |     | 8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,399.61                  | 356.95                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -204.46                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 285.31                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 427.49                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 567.81                    |                         |
| 40 05 19 00-1125 | EA  |     | 8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,497.75                  | 360.32                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -214.70                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 299.32                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 448.36                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 595.44                    |                         |
| 40 05 19 00-1126 | EA  |     | 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,595.90                  | 363.69                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -224.93                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 313.34                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 469.23                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 623.07                    |                         |
| 40 05 19 00-1127 | EA  |     | 8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 2,694.04                  | 367.05                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -235.17                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 327.36                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 490.10                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 650.70                    |                         |
| 40 05 19 00-1128 | EA  |     | 8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,792.20                  | 370.42                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -245.40                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 341.38                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 510.97                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 678.34                    |                         |
| 40 05 19 00-1129 | EA  |     | 8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,890.34                  | 373.79                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -255.64                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 355.39                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 531.84                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 705.97                    |                         |
| 40 05 19 00-1130 | EA  |     | 8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,988.48                  | 377.16                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -265.87                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 369.41                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 552.71                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 733.60                    |                         |
| 40 05 19 00-1131 | EA  |     | 8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,086.63                  | 380.52                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -276.11                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 383.43                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 573.59                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 761.23                    |                         |
| 40 05 19 00-1132 | EA  |     | 8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,184.78                  | 383.89                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -286.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 397.45                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 594.46                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 788.86                    |                         |
| 40 05 19 00-1133 | EA  |     | 8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,282.93                  | 387.27                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -296.58                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 411.47                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 615.33                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 816.49                    |                         |
| 40 05 19 00-1134 | EA  |     | 8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,381.07                  | 390.63                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -306.81                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 425.48                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 636.20                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 844.12                    |                         |



|   |                 |
|---|-----------------|
| <b>Process Interconnections</b>                         | <b>40</b>       |
| <b>Common Work Results For Process Interconnections</b> |                 |
| <b>Ductile Iron Process Pipe</b>                        | <b>40 05 19</b> |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,479.21                  | 394.00                  |
| <i>For Class 52 Rating, Deduct</i>  | -317.05                   |                         |
| <i>For Class 54 Rating, Add</i>   | 439.50                    |                         |
| <i>For Class 55 Rating, Add</i>   | 657.07                    |                         |
| <i>For Class 56 Rating, Add</i>   | 871.75                    |                         |
| 40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,577.36                  | 397.36                  |
| <i>For Class 52 Rating, Deduct</i>  | -327.28                   |                         |
| <i>For Class 54 Rating, Add</i>   | 453.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 677.94                    |                         |
| <i>For Class 56 Rating, Add</i>   | 899.39                    |                         |
| 40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,675.51                  | 400.74                  |
| <i>For Class 52 Rating, Deduct</i>  | -337.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 467.54                    |                         |
| <i>For Class 55 Rating, Add</i>   | 698.81                    |                         |
| <i>For Class 56 Rating, Add</i>   | 927.02                    |                         |
| 40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,773.66                  | 404.09                  |
| <i>For Class 52 Rating, Deduct</i>  | -347.75                   |                         |
| <i>For Class 54 Rating, Add</i>   | 481.56                    |                         |
| <i>For Class 55 Rating, Add</i>   | 719.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 954.65                    |                         |
| 40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,871.80                  | 407.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -357.99                   |                         |
| <i>For Class 54 Rating, Add</i>   | 495.57                    |                         |
| <i>For Class 55 Rating, Add</i>   | 740.55                    |                         |
| <i>For Class 56 Rating, Add</i>   | 982.28                    |                         |
| 40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,969.95                  | 410.83                  |
| <i>For Class 52 Rating, Deduct</i>  | -368.22                   |                         |
| <i>For Class 54 Rating, Add</i>   | 509.59                    |                         |
| <i>For Class 55 Rating, Add</i>   | 761.43                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,009.92                  |                         |
| 40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,068.09                  | 414.21                  |
| <i>For Class 52 Rating, Deduct</i>  | -378.46                   |                         |
| <i>For Class 54 Rating, Add</i>   | 523.61                    |                         |
| <i>For Class 55 Rating, Add</i>   | 782.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,037.55                  |                         |
| 40 05 19 00-1142 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,166.24                  | 417.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -388.69                   |                         |
| <i>For Class 54 Rating, Add</i>   | 537.63                    |                         |
| <i>For Class 55 Rating, Add</i>   | 803.17                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,065.18                  |                         |
| 40 05 19 00-1143 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,264.39                  | 420.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -398.93                   |                         |
| <i>For Class 54 Rating, Add</i>   | 551.64                    |                         |
| <i>For Class 55 Rating, Add</i>   | 824.04                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,092.81                  |                         |
| 40 05 19 00-1144 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,362.53                  | 424.30                  |
| <i>For Class 52 Rating, Deduct</i>  | -409.16                   |                         |
| <i>For Class 54 Rating, Add</i>   | 565.66                    |                         |
| <i>For Class 55 Rating, Add</i>   | 844.91                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,120.44                  |                         |
| 40 05 19 00-1145 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,460.68                  | 427.67                  |
| <i>For Class 52 Rating, Deduct</i>  | -419.40                   |                         |
| <i>For Class 54 Rating, Add</i>   | 579.68                    |                         |
| <i>For Class 55 Rating, Add</i>   | 865.78                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,148.07                  |                         |
| 40 05 19 00-1146 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,558.83                  | 431.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -429.63                   |                         |
| <i>For Class 54 Rating, Add</i>   | 593.70                    |                         |
| <i>For Class 55 Rating, Add</i>   | 886.65                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,175.70                  |                         |
| 40 05 19 00-1147 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,656.97                  | 434.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -439.87                   |                         |
| <i>For Class 54 Rating, Add</i>   | 607.72                    |                         |
| <i>For Class 55 Rating, Add</i>   | 907.52                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,203.33                  |                         |
| 40 05 19 00-1148 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,755.12                  | 437.78                  |
| <i>For Class 52 Rating, Deduct</i>  | -450.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 621.73                    |                         |
| <i>For Class 55 Rating, Add</i>   | 928.40                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,230.97                  |                         |



**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1149 |     |     | <b>10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                        |                      |
| 40 05 19 00-1150 | EA  |     | 10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,288.31               | 377.16               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -78.85                 |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 114.39                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 173.57                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 232.05                 |                      |
| 40 05 19 00-1151 | EA  |     | 10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,416.06               | 380.52               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -92.35                 |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 132.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 201.05                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 268.41                 |                      |
| 40 05 19 00-1152 | EA  |     | 10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,543.82               | 383.89               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -105.84                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 151.30                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 228.52                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 304.78                 |                      |
| 40 05 19 00-1153 | EA  |     | 10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,671.57               | 387.27               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -119.33                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 169.76                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 255.99                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 341.14                 |                      |
| 40 05 19 00-1154 | EA  |     | 10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,799.32               | 390.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -132.82                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 188.22                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 283.47                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 377.51                 |                      |
| 40 05 19 00-1155 | EA  |     | 10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 1,927.07               | 394.00               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -146.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 206.68                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 310.94                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 413.87                 |                      |
| 40 05 19 00-1156 | EA  |     | 10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,054.82               | 397.36               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -159.80                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 225.14                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 338.41                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 450.24                 |                      |
| 40 05 19 00-1157 | EA  |     | 10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,182.58               | 400.74               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -173.30                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 243.60                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 365.89                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 486.60                 |                      |
| 40 05 19 00-1158 | EA  |     | 10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,310.33               | 404.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -186.79                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 262.06                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 393.36                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 522.97                 |                      |
| 40 05 19 00-1159 | EA  |     | 10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,438.07               | 407.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -200.28                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 280.51                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 420.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 559.33                 |                      |
| 40 05 19 00-1160 | EA  |     | 10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,565.82               | 410.83               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -213.77                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 298.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 448.31                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 595.70                 |                      |
| 40 05 19 00-1161 | EA  |     | 10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,693.57               | 414.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -227.26                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 317.43                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 475.78                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 632.06                 |                      |
| 40 05 19 00-1162 | EA  |     | 10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,821.33               | 417.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -240.75                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 335.89                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 503.25                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 668.43                 |                      |
| 40 05 19 00-1163 | EA  |     | 10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 2,949.08               | 420.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -254.24                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 354.35                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 530.73                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 704.79                 |                      |



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|--|
| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 3,076.83                  | 424.30                  |
| For Class 52 Rating, Deduct  | -267.73                   |                         |
| For Class 54 Rating, Add   | 372.81                    |                         |
| For Class 55 Rating, Add   | 558.20                    |                         |
| For Class 56 Rating, Add   | 741.16                    |                         |
| 40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 3,204.58                  | 427.67                  |
| For Class 52 Rating, Deduct  | -281.23                   |                         |
| For Class 54 Rating, Add   | 391.27                    |                         |
| For Class 55 Rating, Add   | 585.67                    |                         |
| For Class 56 Rating, Add   | 777.52                    |                         |
| 40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 3,332.34                  | 431.03                  |
| For Class 52 Rating, Deduct  | -294.72                   |                         |
| For Class 54 Rating, Add   | 409.72                    |                         |
| For Class 55 Rating, Add   | 613.15                    |                         |
| For Class 56 Rating, Add   | 813.89                    |                         |
| 40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 3,460.09                  | 434.41                  |
| For Class 52 Rating, Deduct  | -308.21                   |                         |
| For Class 54 Rating, Add   | 428.18                    |                         |
| For Class 55 Rating, Add   | 640.62                    |                         |
| For Class 56 Rating, Add   | 850.26                    |                         |
| 40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,587.84                  | 437.78                  |
| For Class 52 Rating, Deduct  | -321.70                   |                         |
| For Class 54 Rating, Add   | 446.64                    |                         |
| For Class 55 Rating, Add   | 668.09                    |                         |
| For Class 56 Rating, Add   | 886.62                    |                         |
| 40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,715.59                  | 441.14                  |
| For Class 52 Rating, Deduct  | -335.19                   |                         |
| For Class 54 Rating, Add   | 465.10                    |                         |
| For Class 55 Rating, Add   | 695.57                    |                         |
| For Class 56 Rating, Add   | 922.99                    |                         |
| 40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,843.34                  | 444.50                  |
| For Class 52 Rating, Deduct  | -348.68                   |                         |
| For Class 54 Rating, Add   | 483.56                    |                         |
| For Class 55 Rating, Add   | 723.04                    |                         |
| For Class 56 Rating, Add   | 959.35                    |                         |
| 40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,971.09                  | 447.88                  |
| For Class 52 Rating, Deduct  | -362.17                   |                         |
| For Class 54 Rating, Add   | 502.02                    |                         |
| For Class 55 Rating, Add   | 750.51                    |                         |
| For Class 56 Rating, Add   | 995.71                    |                         |
| 40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,098.84                  | 451.23                  |
| For Class 52 Rating, Deduct  | -375.67                   |                         |
| For Class 54 Rating, Add   | 520.48                    |                         |
| For Class 55 Rating, Add   | 777.99                    |                         |
| For Class 56 Rating, Add   | 1,032.08                  |                         |
| 40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,226.59                  | 454.61                  |
| For Class 52 Rating, Deduct  | -389.16                   |                         |
| For Class 54 Rating, Add   | 538.93                    |                         |
| For Class 55 Rating, Add   | 805.46                    |                         |
| For Class 56 Rating, Add   | 1,068.44                  |                         |
| 40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,354.34                  | 457.98                  |
| For Class 52 Rating, Deduct  | -402.65                   |                         |
| For Class 54 Rating, Add   | 557.39                    |                         |
| For Class 55 Rating, Add   | 832.93                    |                         |
| For Class 56 Rating, Add   | 1,104.81                  |                         |
| 40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,482.09                  | 461.35                  |
| For Class 52 Rating, Deduct  | -416.14                   |                         |
| For Class 54 Rating, Add   | 575.85                    |                         |
| For Class 55 Rating, Add   | 860.41                    |                         |
| For Class 56 Rating, Add   | 1,141.18                  |                         |
| 40 05 19 00-1176 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,609.85                  | 464.71                  |
| For Class 52 Rating, Deduct  | -429.63                   |                         |
| For Class 54 Rating, Add   | 594.31                    |                         |
| For Class 55 Rating, Add   | 887.88                    |                         |
| For Class 56 Rating, Add   | 1,177.54                  |                         |
| 40 05 19 00-1177 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,737.60                  | 468.08                  |
| For Class 52 Rating, Deduct  | -443.12                   |                         |
| For Class 54 Rating, Add   | 612.77                    |                         |
| For Class 55 Rating, Add   | 915.35                    |                         |
| For Class 56 Rating, Add   | 1,213.91                  |                         |

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1178 | EA  |     | 10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 4,865.35               | 471.45               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -456.61                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 631.23                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 942.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,250.27               |                      |
| 40 05 19 00-1179 | EA  |     | 10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 4,993.10               | 474.82               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -470.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 649.69                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 970.30                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,286.64               |                      |
| 40 05 19 00-1180 | EA  |     | 10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,120.86               | 478.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -483.60                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 668.15                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 997.77                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,323.00               |                      |
| 40 05 19 00-1181 | EA  |     | 10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,248.61               | 481.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -497.09                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 686.60                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,025.25               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,359.37               |                      |
| 40 05 19 00-1182 | EA  |     | 10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,376.35               | 484.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -510.58                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 705.06                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,052.72               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,395.73               |                      |
| 40 05 19 00-1183 | EA  |     | 10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,504.10               | 488.28               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -524.07                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 723.52                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,080.19               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,432.10               |                      |
| 40 05 19 00-1184 | EA  |     | 10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,631.85               | 491.65               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -537.56                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 741.98                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,107.66               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,468.46               |                      |
| 40 05 19 00-1185 | EA  |     | 10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,759.61               | 495.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -551.05                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 760.44                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,135.14               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,504.83               |                      |
| 40 05 19 00-1186 | EA  |     | 10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 5,887.36               | 498.39               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -564.55                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 778.90                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,162.61               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,541.19               |                      |
| 40 05 19 00-1187 | EA  |     | 10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 6,015.11               | 501.75               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -578.04                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 797.35                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,190.08               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,577.56               |                      |
| 40 05 19 00-1188 | EA  |     | 10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 6,142.86               | 505.12               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -591.53                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 815.81                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,217.56               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,613.92               |                      |
| 40 05 19 00-1189 |     |     | <b>12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                        |                      |
| 40 05 19 00-1190 | EA  |     | 12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 1,670.13               | 471.45               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -105.14                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 151.94                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 230.29                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 307.68                 |                      |
| 40 05 19 00-1191 | EA  |     | 12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 1,829.60               | 474.82               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -122.12                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 175.16                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 264.84                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 353.40                 |                      |



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| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 40 05 19 00-1192 EA 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 1,989.07     | 478.18     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -139.10      |            |
| For Class 54 Rating, Add   | 198.38       |            |
| For Class 55 Rating, Add   | 299.38       |            |
| For Class 56 Rating, Add   | 399.12       |            |
| 40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,148.54     | 481.55     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -156.08      |            |
| For Class 54 Rating, Add   | 221.59       |            |
| For Class 55 Rating, Add   | 333.93       |            |
| For Class 56 Rating, Add   | 444.85       |            |
| 40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,308.01     | 484.92     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -173.06      |            |
| For Class 54 Rating, Add   | 244.81       |            |
| For Class 55 Rating, Add   | 368.48       |            |
| For Class 56 Rating, Add   | 490.57       |            |
| 40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,467.48     | 488.28     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -190.04      |            |
| For Class 54 Rating, Add   | 268.03       |            |
| For Class 55 Rating, Add   | 403.02       |            |
| For Class 56 Rating, Add   | 536.29       |            |
| 40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,626.95     | 491.65     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -207.02      |            |
| For Class 54 Rating, Add   | 291.24       |            |
| For Class 55 Rating, Add   | 437.57       |            |
| For Class 56 Rating, Add   | 582.02       |            |
| 40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,786.43     | 495.02     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -224.00      |            |
| For Class 54 Rating, Add   | 314.46       |            |
| For Class 55 Rating, Add   | 472.12       |            |
| For Class 56 Rating, Add   | 627.74       |            |
| 40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 2,945.90     | 498.39     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -240.98      |            |
| For Class 54 Rating, Add   | 337.68       |            |
| For Class 55 Rating, Add   | 506.66       |            |
| For Class 56 Rating, Add   | 673.46       |            |
| 40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 3,105.37     | 501.75     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -257.97      |            |
| For Class 54 Rating, Add   | 360.89       |            |
| For Class 55 Rating, Add   | 541.21       |            |
| For Class 56 Rating, Add   | 719.18       |            |
| 40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 3,264.83     | 505.12     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -274.95      |            |
| For Class 54 Rating, Add   | 384.11       |            |
| For Class 55 Rating, Add   | 575.76       |            |
| For Class 56 Rating, Add   | 764.90       |            |
| 40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 3,424.31     | 508.50     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -291.93      |            |
| For Class 54 Rating, Add   | 407.33       |            |
| For Class 55 Rating, Add   | 610.30       |            |
| For Class 56 Rating, Add   | 810.63       |            |
| 40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 3,583.79     | 511.85     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -308.91      |            |
| For Class 54 Rating, Add   | 430.54       |            |
| For Class 55 Rating, Add   | 644.85       |            |
| For Class 56 Rating, Add   | 856.35       |            |
| 40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 3,743.26     | 515.23     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -325.89      |            |
| For Class 54 Rating, Add   | 453.76       |            |
| For Class 55 Rating, Add   | 679.40       |            |
| For Class 56 Rating, Add   | 902.07       |            |
| 40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 3,902.73     | 518.59     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -342.87      |            |
| For Class 54 Rating, Add   | 476.98       |            |
| For Class 55 Rating, Add   | 713.94       |            |
| For Class 56 Rating, Add   | 947.80       |            |
| 40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron | 4,062.20     | 521.97     |
| Pipe   |              |            |
| For Class 52 Rating, Deduct  | -359.85      |            |
| For Class 54 Rating, Add   | 500.19       |            |
| For Class 55 Rating, Add   | 748.49       |            |
| For Class 56 Rating, Add   | 993.52       |            |

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1206 | EA  |     | 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,221.68               | 525.32               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -376.83                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 523.41                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 783.04                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,039.24               |                      |
| 40 05 19 00-1207 | EA  |     | 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,381.15               | 528.70               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -393.81                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 546.63                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 817.59                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,084.96               |                      |
| 40 05 19 00-1208 | EA  |     | 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,540.61               | 532.06               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -410.79                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 569.84                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 852.13                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,130.68               |                      |
| 40 05 19 00-1209 | EA  |     | 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,700.08               | 535.43               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -427.77                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 593.06                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 886.68                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,176.41               |                      |
| 40 05 19 00-1210 | EA  |     | 12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 4,859.55               | 538.79               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -444.75                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 616.27                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 921.22                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,222.13               |                      |
| 40 05 19 00-1211 | EA  |     | 12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,019.03               | 542.17               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -461.73                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 639.49                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 955.77                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,267.85               |                      |
| 40 05 19 00-1212 | EA  |     | 12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,178.50               | 545.53               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -478.71                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 662.71                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 990.32                 |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,313.58               |                      |
| 40 05 19 00-1213 | EA  |     | 12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,337.97               | 548.90               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -495.69                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 685.93                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,024.86               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,359.30               |                      |
| 40 05 19 00-1214 | EA  |     | 12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,497.44               | 552.26               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -512.67                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 709.14                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,059.41               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,405.02               |                      |
| 40 05 19 00-1215 | EA  |     | 12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,656.91               | 555.64               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -529.65                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 732.36                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,093.96               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,450.74               |                      |
| 40 05 19 00-1216 | EA  |     | 12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,816.38               | 559.01               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -546.63                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 755.57                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,128.50               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,496.46               |                      |
| 40 05 19 00-1217 | EA  |     | 12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,975.85               | 562.37               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -563.61                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 778.79                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,163.05               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,542.19               |                      |
| 40 05 19 00-1218 | EA  |     | 12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,135.32               | 565.73               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -580.60                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 802.01                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,197.60               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,587.91               |                      |
| 40 05 19 00-1219 | EA  |     | 12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,294.79               | 569.11               |
|                  |     |     | For Class 52 Rating, Deduct .....  | -597.58                |                      |
|                  |     |     | For Class 54 Rating, Add .....   | 825.22                 |                      |
|                  |     |     | For Class 55 Rating, Add .....   | 1,232.14               |                      |
|                  |     |     | For Class 56 Rating, Add .....   | 1,633.63               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1220 EA 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 6,454.27                  | 572.46                  |
| For Class 52 Rating, Deduct   | -614.56                   |                         |
| For Class 54 Rating, Add  | 848.44                    |                         |
| For Class 55 Rating, Add  | 1,266.69                  |                         |
| For Class 56 Rating, Add  | 1,679.36                  |                         |
| 40 05 19 00-1221 EA 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 6,613.74                  | 575.84                  |
| For Class 52 Rating, Deduct   | -631.54                   |                         |
| For Class 54 Rating, Add  | 871.66                    |                         |
| For Class 55 Rating, Add  | 1,301.24                  |                         |
| For Class 56 Rating, Add  | 1,725.08                  |                         |
| 40 05 19 00-1222 EA 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 6,773.21                  | 579.21                  |
| For Class 52 Rating, Deduct   | -648.52                   |                         |
| For Class 54 Rating, Add  | 894.87                    |                         |
| For Class 55 Rating, Add  | 1,335.79                  |                         |
| For Class 56 Rating, Add  | 1,770.80                  |                         |
| 40 05 19 00-1223 EA 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 6,932.67                  | 582.58                  |
| For Class 52 Rating, Deduct   | -665.50                   |                         |
| For Class 54 Rating, Add  | 918.09                    |                         |
| For Class 55 Rating, Add  | 1,370.33                  |                         |
| For Class 56 Rating, Add  | 1,816.52                  |                         |
| 40 05 19 00-1224 EA 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 7,092.14                  | 585.94                  |
| For Class 52 Rating, Deduct   | -682.48                   |                         |
| For Class 54 Rating, Add  | 941.31                    |                         |
| For Class 55 Rating, Add  | 1,404.88                  |                         |
| For Class 56 Rating, Add  | 1,862.24                  |                         |
| 40 05 19 00-1225 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 7,251.62                  | 589.31                  |
| For Class 52 Rating, Deduct   | -699.46                   |                         |
| For Class 54 Rating, Add  | 964.52                    |                         |
| For Class 55 Rating, Add  | 1,439.42                  |                         |
| For Class 56 Rating, Add  | 1,907.97                  |                         |
| 40 05 19 00-1226 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 7,411.09                  | 592.68                  |
| For Class 52 Rating, Deduct   | -716.44                   |                         |
| For Class 54 Rating, Add  | 987.74                    |                         |
| For Class 55 Rating, Add  | 1,473.97                  |                         |
| For Class 56 Rating, Add  | 1,953.69                  |                         |
| 40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 7,570.56                  | 596.04                  |
| For Class 52 Rating, Deduct   | -733.42                   |                         |
| For Class 54 Rating, Add  | 1,010.96                  |                         |
| For Class 55 Rating, Add  | 1,508.52                  |                         |
| For Class 56 Rating, Add  | 1,999.41                  |                         |
| 40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 7,730.03                  | 599.41                  |
| For Class 52 Rating, Deduct   | -750.40                   |                         |
| For Class 54 Rating, Add  | 1,034.17                  |                         |
| For Class 55 Rating, Add  | 1,543.06                  |                         |
| For Class 56 Rating, Add  | 2,045.14                  |                         |
| <b>40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 2,221.12                  | 565.73                  |
| For Class 52 Rating, Deduct   | -150.03                   |                         |
| For Class 54 Rating, Add  | 214.88                    |                         |
| For Class 55 Rating, Add  | 324.73                    |                         |
| For Class 56 Rating, Add  | 433.22                    |                         |
| 40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 2,414.43                  | 569.11                  |
| For Class 52 Rating, Deduct   | -170.74                   |                         |
| For Class 54 Rating, Add  | 243.17                    |                         |
| For Class 55 Rating, Add  | 366.82                    |                         |
| For Class 56 Rating, Add  | 488.93                    |                         |
| 40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 2,607.74                  | 572.46                  |
| For Class 52 Rating, Deduct   | -191.44                   |                         |
| For Class 54 Rating, Add  | 271.46                    |                         |
| For Class 55 Rating, Add  | 408.92                    |                         |
| For Class 56 Rating, Add  | 544.63                    |                         |
| 40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 2,801.04                  | 575.84                  |
| For Class 52 Rating, Deduct   | -212.14                   |                         |
| For Class 54 Rating, Add  | 299.75                    |                         |
| For Class 55 Rating, Add  | 451.01                    |                         |
| For Class 56 Rating, Add  | 600.33                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-1234 | EA  |     | 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 2,994.34               | 579.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -232.84                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 328.04                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 493.10                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 656.03                 |                      |
| 40 05 19 00-1235 | EA  |     | 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,187.65               | 582.58               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -253.55                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 356.34                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 535.19                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 711.74                 |                      |
| 40 05 19 00-1236 | EA  |     | 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,380.95               | 585.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -274.25                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 384.63                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 577.28                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 767.44                 |                      |
| 40 05 19 00-1237 | EA  |     | 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,574.26               | 589.31               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -294.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 412.92                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 619.37                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 823.15                 |                      |
| 40 05 19 00-1238 | EA  |     | 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,767.57               | 592.68               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -315.65                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 441.21                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 661.47                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 878.85                 |                      |
| 40 05 19 00-1239 | EA  |     | 14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 3,960.87               | 596.04               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -336.35                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 469.50                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 703.56                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 934.55                 |                      |
| 40 05 19 00-1240 | EA  |     | 14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,154.17               | 599.41               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -357.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 497.79                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 745.65                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 990.26                 |                      |
| 40 05 19 00-1241 | EA  |     | 14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,347.48               | 602.78               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -377.76                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 526.09                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 787.74                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,045.96               |                      |
| 40 05 19 00-1242 | EA  |     | 14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,540.79               | 606.15               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -398.46                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 554.38                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 829.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,101.66               |                      |
| 40 05 19 00-1243 | EA  |     | 14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,734.09               | 609.51               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -419.16                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 582.67                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 871.92                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,157.37               |                      |
| 40 05 19 00-1244 | EA  |     | 14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 4,927.39               | 612.88               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -439.87                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 610.96                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 914.01                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,213.07               |                      |
| 40 05 19 00-1245 | EA  |     | 14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,120.70               | 616.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -460.57                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 639.25                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 956.11                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,268.78               |                      |
| 40 05 19 00-1246 | EA  |     | 14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,314.01               | 619.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -481.27                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 667.54                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 998.20                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,324.48               |                      |
| 40 05 19 00-1247 | EA  |     | 14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,507.31               | 622.98               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -501.97                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 695.84                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,040.29               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,380.18               |                      |



| MINOR  | TOTAL DIRECT | DEMOLITION |
|--|--------------|------------|
| CSI UOM DESCRIPTION  | UNIT COST    | UNIT COST  |
| 40 05 19 00-1248 EA 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,700.62     | 626.35     |
| <i>For Class 52 Rating, Deduct</i>   | -522.68      |            |
| <i>For Class 54 Rating, Add</i>  | 724.13       |            |
| <i>For Class 55 Rating, Add</i>  | 1,082.38     |            |
| <i>For Class 56 Rating, Add</i>  | 1,435.89     |            |
| 40 05 19 00-1249 EA 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 5,893.92     | 629.73     |
| <i>For Class 52 Rating, Deduct</i>   | -543.38      |            |
| <i>For Class 54 Rating, Add</i>  | 752.42       |            |
| <i>For Class 55 Rating, Add</i>  | 1,124.47     |            |
| <i>For Class 56 Rating, Add</i>  | 1,491.59     |            |
| 40 05 19 00-1250 EA 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 6,087.22     | 633.08     |
| <i>For Class 52 Rating, Deduct</i>   | -564.08      |            |
| <i>For Class 54 Rating, Add</i>  | 780.71       |            |
| <i>For Class 55 Rating, Add</i>  | 1,166.57     |            |
| <i>For Class 56 Rating, Add</i>  | 1,547.29     |            |
| 40 05 19 00-1251 EA 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 6,280.53     | 636.45     |
| <i>For Class 52 Rating, Deduct</i>   | -584.78      |            |
| <i>For Class 54 Rating, Add</i>  | 809.00       |            |
| <i>For Class 55 Rating, Add</i>  | 1,208.66     |            |
| <i>For Class 56 Rating, Add</i>  | 1,602.99     |            |
| 40 05 19 00-1252 EA 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 6,473.84     | 639.82     |
| <i>For Class 52 Rating, Deduct</i>   | -605.49      |            |
| <i>For Class 54 Rating, Add</i>  | 837.29       |            |
| <i>For Class 55 Rating, Add</i>  | 1,250.75     |            |
| <i>For Class 56 Rating, Add</i>  | 1,658.70     |            |
| 40 05 19 00-1253 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 6,667.14     | 643.20     |
| <i>For Class 52 Rating, Deduct</i>   | -626.19      |            |
| <i>For Class 54 Rating, Add</i>  | 865.59       |            |
| <i>For Class 55 Rating, Add</i>  | 1,292.84     |            |
| <i>For Class 56 Rating, Add</i>  | 1,714.40     |            |
| 40 05 19 00-1254 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 6,860.44     | 646.55     |
| <i>For Class 52 Rating, Deduct</i>   | -646.89      |            |
| <i>For Class 54 Rating, Add</i>  | 893.88       |            |
| <i>For Class 55 Rating, Add</i>  | 1,334.93     |            |
| <i>For Class 56 Rating, Add</i>  | 1,770.11     |            |
| 40 05 19 00-1255 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 7,053.76     | 649.93     |
| <i>For Class 52 Rating, Deduct</i>   | -667.59      |            |
| <i>For Class 54 Rating, Add</i>  | 922.17       |            |
| <i>For Class 55 Rating, Add</i>  | 1,377.03     |            |
| <i>For Class 56 Rating, Add</i>  | 1,825.81     |            |
| 40 05 19 00-1256 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 7,247.06     | 653.29     |
| <i>For Class 52 Rating, Deduct</i>   | -688.29      |            |
| <i>For Class 54 Rating, Add</i>  | 950.46       |            |
| <i>For Class 55 Rating, Add</i>  | 1,419.12     |            |
| <i>For Class 56 Rating, Add</i>  | 1,881.51     |            |
| 40 05 19 00-1257 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 7,440.36     | 656.66     |
| <i>For Class 52 Rating, Deduct</i>   | -709.00      |            |
| <i>For Class 54 Rating, Add</i>  | 978.75       |            |
| <i>For Class 55 Rating, Add</i>  | 1,461.21     |            |
| <i>For Class 56 Rating, Add</i>  | 1,937.22     |            |
| 40 05 19 00-1258 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 7,633.67     | 660.02     |
| <i>For Class 52 Rating, Deduct</i>   | -729.70      |            |
| <i>For Class 54 Rating, Add</i>  | 1,007.04     |            |
| <i>For Class 55 Rating, Add</i>  | 1,503.30     |            |
| <i>For Class 56 Rating, Add</i>  | 1,992.92     |            |
| 40 05 19 00-1259 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 7,826.97     | 663.40     |
| <i>For Class 52 Rating, Deduct</i>   | -750.40      |            |
| <i>For Class 54 Rating, Add</i>  | 1,035.34     |            |
| <i>For Class 55 Rating, Add</i>  | 1,545.39     |            |
| <i>For Class 56 Rating, Add</i>  | 2,048.62     |            |
| 40 05 19 00-1260 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 8,020.28     | 666.76     |
| <i>For Class 52 Rating, Deduct</i>   | -771.10      |            |
| <i>For Class 54 Rating, Add</i>  | 1,063.63     |            |
| <i>For Class 55 Rating, Add</i>  | 1,587.48     |            |
| <i>For Class 56 Rating, Add</i>  | 2,104.33     |            |
| 40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 8,213.58     | 670.13     |
| <i>For Class 52 Rating, Deduct</i>   | -791.81      |            |
| <i>For Class 54 Rating, Add</i>  | 1,091.92     |            |
| <i>For Class 55 Rating, Add</i>  | 1,629.57     |            |
| <i>For Class 56 Rating, Add</i>  | 2,160.03     |            |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1262 | EA  |     | 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,406.89               | 673.49               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -812.51                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,120.21               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,671.67               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,215.74               |                      |
| 40 05 19 00-1263 | EA  |     | 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,600.19               | 676.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -833.21                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,148.50               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,713.76               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,271.44               |                      |
| 40 05 19 00-1264 | EA  |     | 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,793.49               | 680.22               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -853.91                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,176.79               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,755.85               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,327.14               |                      |
| 40 05 19 00-1265 | EA  |     | 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,986.81               | 683.60               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -874.62                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,205.09               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,797.94               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,382.85               |                      |
| 40 05 19 00-1266 | EA  |     | 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,180.11               | 686.96               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -895.32                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,233.38               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,840.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,438.55               |                      |
| 40 05 19 00-1267 | EA  |     | 14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,373.41               | 690.34               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -916.02                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,261.67               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,882.12               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,494.25               |                      |
| 40 05 19 00-1268 |     |     | <b>16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                        |                      |
| 40 05 19 00-1269 | EA  |     | 16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,593.10               | 646.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -177.48                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 253.78                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 383.31                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 511.24                 |                      |
| 40 05 19 00-1270 | EA  |     | 16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 2,818.13               | 649.93               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -201.67                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 286.83                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 432.48                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 576.30                 |                      |
| 40 05 19 00-1271 | EA  |     | 16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,043.16               | 653.29               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -225.87                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 319.88                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 481.65                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 641.36                 |                      |
| 40 05 19 00-1272 | EA  |     | 16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,268.18               | 656.66               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -250.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 352.93                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 530.81                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 706.42                 |                      |
| 40 05 19 00-1273 | EA  |     | 16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,493.20               | 660.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -274.25                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 385.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 579.98                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 771.48                 |                      |
| 40 05 19 00-1274 | EA  |     | 16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,718.22               | 663.40               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -298.44                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 419.02                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 629.14                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 836.54                 |                      |
| 40 05 19 00-1275 | EA  |     | 16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,943.26               | 666.76               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -322.63                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 452.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 678.31                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 901.61                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 4,168.28                  | 670.13                  |
| <i>For Class 52 Rating, Deduct</i>  | -346.82                   |                         |
| <i>For Class 54 Rating, Add</i>   | 485.12                    |                         |
| <i>For Class 55 Rating, Add</i>   | 727.47                    |                         |
| <i>For Class 56 Rating, Add</i>   | 966.67                    |                         |
| 40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 4,393.30                  | 673.49                  |
| <i>For Class 52 Rating, Deduct</i>  | -371.01                   |                         |
| <i>For Class 54 Rating, Add</i>   | 518.17                    |                         |
| <i>For Class 55 Rating, Add</i>   | 776.64                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,031.73                  |                         |
| 40 05 19 00-1278 EA 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 4,618.32                  | 676.87                  |
| <i>For Class 52 Rating, Deduct</i>  | -395.20                   |                         |
| <i>For Class 54 Rating, Add</i>   | 551.22                    |                         |
| <i>For Class 55 Rating, Add</i>   | 825.80                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,096.79                  |                         |
| 40 05 19 00-1279 EA 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 4,843.35                  | 680.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -419.40                   |                         |
| <i>For Class 54 Rating, Add</i>   | 584.27                    |                         |
| <i>For Class 55 Rating, Add</i>   | 874.97                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,161.85                  |                         |
| 40 05 19 00-1280 EA 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 5,068.38                  | 683.60                  |
| <i>For Class 52 Rating, Deduct</i>  | -443.59                   |                         |
| <i>For Class 54 Rating, Add</i>   | 617.32                    |                         |
| <i>For Class 55 Rating, Add</i>   | 924.13                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,226.91                  |                         |
| 40 05 19 00-1281 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 5,293.40                  | 686.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -467.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 650.37                    |                         |
| <i>For Class 55 Rating, Add</i>   | 973.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,291.97                  |                         |
| 40 05 19 00-1282 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 5,518.42                  | 690.34                  |
| <i>For Class 52 Rating, Deduct</i>  | -491.97                   |                         |
| <i>For Class 54 Rating, Add</i>   | 683.42                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,022.46                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,357.03                  |                         |
| 40 05 19 00-1283 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 5,743.45                  | 693.69                  |
| <i>For Class 52 Rating, Deduct</i>  | -516.16                   |                         |
| <i>For Class 54 Rating, Add</i>   | 716.47                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,071.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,422.09                  |                         |
| 40 05 19 00-1284 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 5,968.48                  | 697.07                  |
| <i>For Class 52 Rating, Deduct</i>  | -540.35                   |                         |
| <i>For Class 54 Rating, Add</i>   | 749.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,120.79                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,487.15                  |                         |
| 40 05 19 00-1285 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 6,193.50                  | 700.44                  |
| <i>For Class 52 Rating, Deduct</i>  | -564.55                   |                         |
| <i>For Class 54 Rating, Add</i>   | 782.57                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,169.96                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,552.21                  |                         |
| 40 05 19 00-1286 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 6,418.52                  | 703.80                  |
| <i>For Class 52 Rating, Deduct</i>  | -588.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 815.62                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,219.12                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,617.27                  |                         |
| 40 05 19 00-1287 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 6,643.55                  | 707.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -612.93                   |                         |
| <i>For Class 54 Rating, Add</i>   | 848.67                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,268.29                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,682.34                  |                         |
| 40 05 19 00-1288 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 6,868.57                  | 710.54                  |
| <i>For Class 52 Rating, Deduct</i>  | -637.12                   |                         |
| <i>For Class 54 Rating, Add</i>   | 881.72                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,317.45                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,747.40                  |                         |
| 40 05 19 00-1289 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 7,093.60                  | 713.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -661.31                   |                         |
| <i>For Class 54 Rating, Add</i>   | 914.77                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,366.62                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,812.46                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1290 | EA  | 16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,318.62                  | 717.27                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -685.50                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 947.82                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,415.78                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 1,877.52                  |                         |
| 40 05 19 00-1291 | EA  | 16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,543.65                  | 720.64                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -709.69                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 980.87                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,464.95                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 1,942.58                  |                         |
| 40 05 19 00-1292 | EA  | 16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,768.67                  | 724.01                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -733.89                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,013.92                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,514.11                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,007.64                  |                         |
| 40 05 19 00-1293 | EA  | 16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,993.69                  | 727.38                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -758.08                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,046.97                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,563.28                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,072.70                  |                         |
| 40 05 19 00-1294 | EA  | 16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,218.72                  | 730.74                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -782.27                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,080.02                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,612.44                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,137.76                  |                         |
| 40 05 19 00-1295 | EA  | 16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,443.75                  | 734.11                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -806.46                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,113.07                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,661.61                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,202.82                  |                         |
| 40 05 19 00-1296 | EA  | 16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,668.77                  | 737.48                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -830.65                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,146.12                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,710.78                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,267.88                  |                         |
| 40 05 19 00-1297 | EA  | 16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,893.79                  | 740.84                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -854.84                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,179.16                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,759.94                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,332.94                  |                         |
| 40 05 19 00-1298 | EA  | 16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,118.82                  | 744.21                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -879.03                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,212.21                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,809.10                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,398.00                  |                         |
| 40 05 19 00-1299 | EA  | 16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,343.85                  | 747.58                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -903.23                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,245.26                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,858.27                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,463.07                  |                         |
| 40 05 19 00-1300 | EA  | 16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,568.87                  | 750.96                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -927.42                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,278.31                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,907.44                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,528.13                  |                         |
| 40 05 19 00-1301 | EA  | 16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,793.89                  | 754.31                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -951.61                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,311.36                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 1,956.60                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,593.19                  |                         |
| 40 05 19 00-1302 | EA  | 16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,018.91                 | 757.68                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -975.80                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,344.41                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 2,005.76                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,658.25                  |                         |
| 40 05 19 00-1303 | EA  | 16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,243.95                 | 761.05                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -999.99                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 1,377.46                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 2,054.93                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 2,723.31                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 10,468.97                 | 764.41                  |
| For Class 52 Rating, Deduct   | -1,024.18                 |                         |
| For Class 54 Rating, Add  | 1,410.51                  |                         |
| For Class 55 Rating, Add  | 2,104.10                  |                         |
| For Class 56 Rating, Add  | 2,788.37                  |                         |
| 40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 10,693.99                 | 767.78                  |
| For Class 52 Rating, Deduct   | -1,048.37                 |                         |
| For Class 54 Rating, Add  | 1,443.56                  |                         |
| For Class 55 Rating, Add  | 2,153.26                  |                         |
| For Class 56 Rating, Add  | 2,853.43                  |                         |
| 40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 10,919.01                 | 771.16                  |
| For Class 52 Rating, Deduct   | -1,072.57                 |                         |
| For Class 54 Rating, Add  | 1,476.61                  |                         |
| For Class 55 Rating, Add  | 2,202.43                  |                         |
| For Class 56 Rating, Add  | 2,918.49                  |                         |
| <b>40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 2,996.73                  | 728.73                  |
| For Class 52 Rating, Deduct   | -208.19                   |                         |
| For Class 54 Rating, Add  | 297.14                    |                         |
| For Class 55 Rating, Add  | 448.55                    |                         |
| For Class 56 Rating, Add  | 598.07                    |                         |
| 40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 3,255.59                  | 732.10                  |
| For Class 52 Rating, Deduct   | -236.10                   |                         |
| For Class 54 Rating, Add  | 335.26                    |                         |
| For Class 55 Rating, Add  | 505.26                    |                         |
| For Class 56 Rating, Add  | 673.11                    |                         |
| 40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 3,514.45                  | 735.46                  |
| For Class 52 Rating, Deduct   | -264.01                   |                         |
| For Class 54 Rating, Add  | 373.39                    |                         |
| For Class 55 Rating, Add  | 561.97                    |                         |
| For Class 56 Rating, Add  | 748.15                    |                         |
| 40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 3,773.31                  | 738.83                  |
| For Class 52 Rating, Deduct   | -291.93                   |                         |
| For Class 54 Rating, Add  | 411.51                    |                         |
| For Class 55 Rating, Add  | 618.68                    |                         |
| For Class 56 Rating, Add  | 823.19                    |                         |
| 40 05 19 00-1312 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 4,032.17                  | 742.20                  |
| For Class 52 Rating, Deduct   | -319.84                   |                         |
| For Class 54 Rating, Add  | 449.64                    |                         |
| For Class 55 Rating, Add  | 675.39                    |                         |
| For Class 56 Rating, Add  | 898.23                    |                         |
| 40 05 19 00-1313 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 4,291.03                  | 745.55                  |
| For Class 52 Rating, Deduct   | -347.75                   |                         |
| For Class 54 Rating, Add  | 487.76                    |                         |
| For Class 55 Rating, Add  | 732.10                    |                         |
| For Class 56 Rating, Add  | 973.28                    |                         |
| 40 05 19 00-1314 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 4,549.88                  | 748.93                  |
| For Class 52 Rating, Deduct   | -375.67                   |                         |
| For Class 54 Rating, Add  | 525.89                    |                         |
| For Class 55 Rating, Add  | 788.81                    |                         |
| For Class 56 Rating, Add  | 1,048.32                  |                         |
| 40 05 19 00-1315 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 4,808.74                  | 752.30                  |
| For Class 52 Rating, Deduct   | -403.58                   |                         |
| For Class 54 Rating, Add  | 564.01                    |                         |
| For Class 55 Rating, Add  | 845.52                    |                         |
| For Class 56 Rating, Add  | 1,123.36                  |                         |
| 40 05 19 00-1316 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 5,067.61                  | 755.67                  |
| For Class 52 Rating, Deduct   | -431.49                   |                         |
| For Class 54 Rating, Add  | 602.14                    |                         |
| For Class 55 Rating, Add  | 902.23                    |                         |
| For Class 56 Rating, Add  | 1,198.40                  |                         |
| 40 05 19 00-1317 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 5,326.46                  | 759.03                  |
| For Class 52 Rating, Deduct   | -459.41                   |                         |
| For Class 54 Rating, Add  | 640.26                    |                         |
| For Class 55 Rating, Add  | 958.94                    |                         |
| For Class 56 Rating, Add  | 1,273.44                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1318 | EA  |     | 18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,585.32                  | 762.40                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -487.32                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 678.39                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,015.65                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,348.49                  |                         |
| 40 05 19 00-1319 | EA  |     | 18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,844.18                  | 765.77                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -515.23                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 716.51                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,072.36                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,423.53                  |                         |
| 40 05 19 00-1320 | EA  |     | 18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,103.04                  | 769.13                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -543.14                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 754.64                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,129.07                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,498.57                  |                         |
| 40 05 19 00-1321 | EA  |     | 18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,361.90                  | 772.50                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -571.06                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 792.76                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,185.78                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,573.61                  |                         |
| 40 05 19 00-1322 | EA  |     | 18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,620.76                  | 775.87                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -598.97                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 830.89                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,242.49                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,648.65                  |                         |
| 40 05 19 00-1323 | EA  |     | 18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,879.61                  | 779.24                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -626.88                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 869.01                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,299.20                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,723.69                  |                         |
| 40 05 19 00-1324 | EA  |     | 18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,138.47                  | 782.60                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -654.80                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 907.14                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,355.91                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,798.74                  |                         |
| 40 05 19 00-1325 | EA  |     | 18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,397.34                  | 785.97                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -682.71                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 945.26                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,412.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,873.78                  |                         |
| 40 05 19 00-1326 | EA  |     | 18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,656.20                  | 789.35                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -710.63                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 983.39                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,469.33                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,948.82                  |                         |
| 40 05 19 00-1327 | EA  |     | 18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,915.05                  | 792.70                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -738.54                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,021.51                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,526.04                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,023.86                  |                         |
| 40 05 19 00-1328 | EA  |     | 18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,173.91                  | 796.07                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -766.45                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,059.64                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,582.75                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,098.91                  |                         |
| 40 05 19 00-1329 | EA  |     | 18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,432.77                  | 799.44                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -794.37                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,097.76                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,639.46                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,173.95                  |                         |
| 40 05 19 00-1330 | EA  |     | 18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,691.63                  | 802.82                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -822.28                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,135.88                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,696.17                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,248.99                  |                         |
| 40 05 19 00-1331 | EA  |     | 18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,950.49                  | 806.17                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -850.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,174.01                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,752.88                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,324.03                  |                         |



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|--|
| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,209.35                  | 809.55                  |
| <i>For Class 52 Rating, Deduct</i>   | -878.10                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,212.13                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,809.60                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,399.07                  |                         |
| 40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,468.20                  | 812.91                  |
| <i>For Class 52 Rating, Deduct</i>   | -906.02                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,250.26                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,866.30                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,474.11                  |                         |
| 40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,727.07                  | 816.29                  |
| <i>For Class 52 Rating, Deduct</i>   | -933.93                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,288.38                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,923.02                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,549.16                  |                         |
| 40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,985.93                  | 819.64                  |
| <i>For Class 52 Rating, Deduct</i>   | -961.84                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,326.51                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,979.73                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,624.20                  |                         |
| 40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,244.78                 | 823.02                  |
| <i>For Class 52 Rating, Deduct</i>   | -989.76                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,364.63                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,036.43                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,699.24                  |                         |
| 40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,503.64                 | 826.38                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,017.67                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,402.76                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,093.15                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,774.28                  |                         |
| 40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,762.50                 | 829.75                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,045.58                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,440.88                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,149.86                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,849.33                  |                         |
| 40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,021.36                 | 833.11                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,073.50                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,479.01                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,206.57                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,924.37                  |                         |
| 40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,280.22                 | 836.49                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,101.41                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,517.13                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,263.28                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,999.41                  |                         |
| 40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,539.08                 | 839.85                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,129.32                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,555.26                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,319.99                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,074.45                  |                         |
| 40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,797.93                 | 843.22                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,157.24                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,593.38                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,376.70                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,149.49                  |                         |
| 40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,056.79                 | 846.58                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,185.15                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,631.51                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,433.41                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,224.53                  |                         |
| 40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,315.66                 | 849.96                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,213.06                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,669.63                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,490.12                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,299.58                  |                         |
| 40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,574.51                 | 853.31                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,240.98                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,707.75                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,546.83                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,374.62                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1346 |     |     | <b>20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                        |                      |
| 40 05 19 00-1347 | EA  |     | 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,489.08               | 831.77               |
|                  |     |     | For Class 52 Rating, Deduct  | -245.17                |                      |
|                  |     |     | For Class 54 Rating, Add   | 349.45                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 527.28                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 702.87                 |                      |
| 40 05 19 00-1348 | EA  |     | 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 3,786.00               | 835.15               |
|                  |     |     | For Class 52 Rating, Deduct  | -277.27                |                      |
|                  |     |     | For Class 54 Rating, Add   | 393.28                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 592.47                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 789.14                 |                      |
| 40 05 19 00-1349 | EA  |     | 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 4,082.93               | 838.50               |
|                  |     |     | For Class 52 Rating, Deduct  | -309.37                |                      |
|                  |     |     | For Class 54 Rating, Add   | 437.12                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 657.67                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 875.42                 |                      |
| 40 05 19 00-1350 | EA  |     | 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 4,379.85               | 841.87               |
|                  |     |     | For Class 52 Rating, Deduct  | -341.47                |                      |
|                  |     |     | For Class 54 Rating, Add   | 480.95                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 722.87                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 961.69                 |                      |
| 40 05 19 00-1351 | EA  |     | 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 4,676.77               | 845.24               |
|                  |     |     | For Class 52 Rating, Deduct  | -373.57                |                      |
|                  |     |     | For Class 54 Rating, Add   | 524.78                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 788.07                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,047.96               |                      |
| 40 05 19 00-1352 | EA  |     | 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 4,973.70               | 848.60               |
|                  |     |     | For Class 52 Rating, Deduct  | -405.67                |                      |
|                  |     |     | For Class 54 Rating, Add   | 568.62                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 853.27                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,134.23               |                      |
| 40 05 19 00-1353 | EA  |     | 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 5,270.62               | 851.97               |
|                  |     |     | For Class 52 Rating, Deduct  | -437.77                |                      |
|                  |     |     | For Class 54 Rating, Add   | 612.45                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 918.47                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,220.50               |                      |
| 40 05 19 00-1354 | EA  |     | 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 5,567.55               | 855.35               |
|                  |     |     | For Class 52 Rating, Deduct  | -469.87                |                      |
|                  |     |     | For Class 54 Rating, Add   | 656.29                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 983.66                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,306.77               |                      |
| 40 05 19 00-1355 | EA  |     | 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 5,864.47               | 858.71               |
|                  |     |     | For Class 52 Rating, Deduct  | -501.97                |                      |
|                  |     |     | For Class 54 Rating, Add   | 700.12                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,048.86               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,393.04               |                      |
| 40 05 19 00-1356 | EA  |     | 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 6,161.39               | 862.07               |
|                  |     |     | For Class 52 Rating, Deduct  | -534.07                |                      |
|                  |     |     | For Class 54 Rating, Add   | 743.96                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,114.06               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,479.31               |                      |
| 40 05 19 00-1357 | EA  |     | 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 6,458.31               | 865.44               |
|                  |     |     | For Class 52 Rating, Deduct  | -566.17                |                      |
|                  |     |     | For Class 54 Rating, Add   | 787.79                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,179.26               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,565.58               |                      |
| 40 05 19 00-1358 | EA  |     | 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 6,755.23               | 868.82               |
|                  |     |     | For Class 52 Rating, Deduct  | -598.27                |                      |
|                  |     |     | For Class 54 Rating, Add   | 831.62                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,244.46               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,651.85               |                      |
| 40 05 19 00-1359 | EA  |     | 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 7,052.16               | 872.17               |
|                  |     |     | For Class 52 Rating, Deduct  | -630.37                |                      |
|                  |     |     | For Class 54 Rating, Add   | 875.46                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,309.66               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,738.12               |                      |
| 40 05 19 00-1360 | EA  |     | 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                          | 7,349.08               | 875.54               |
|                  |     |     | For Class 52 Rating, Deduct  | -662.47                |                      |
|                  |     |     | For Class 54 Rating, Add   | 919.29                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,374.85               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,824.39               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1361 EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 7,646.01                  | 878.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -694.58                   |                         |
| <i>For Class 54 Rating, Add</i>   | 963.13                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,440.05                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,910.67                  |                         |
| 40 05 19 00-1362 EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 7,942.93                  | 882.29                  |
| <i>For Class 52 Rating, Deduct</i>  | -726.68                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,006.96                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,505.25                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,996.94                  |                         |
| 40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 8,239.86                  | 885.64                  |
| <i>For Class 52 Rating, Deduct</i>  | -758.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,050.80                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,570.45                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,083.21                  |                         |
| 40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 8,536.78                  | 889.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -790.88                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,094.63                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,635.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,169.48                  |                         |
| 40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 8,833.70                  | 892.39                  |
| <i>For Class 52 Rating, Deduct</i>  | -822.98                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,138.47                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,700.85                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,255.75                  |                         |
| 40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 9,130.62                  | 895.76                  |
| <i>For Class 52 Rating, Deduct</i>  | -855.08                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,182.30                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,766.05                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,342.02                  |                         |
| 40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 9,427.54                  | 899.12                  |
| <i>For Class 52 Rating, Deduct</i>  | -887.18                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,226.13                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,831.24                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,428.29                  |                         |
| 40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 9,724.47                  | 902.49                  |
| <i>For Class 52 Rating, Deduct</i>  | -919.28                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,269.97                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,896.44                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,514.56                  |                         |
| 40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 10,021.39                 | 905.86                  |
| <i>For Class 52 Rating, Deduct</i>  | -951.38                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,313.80                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,961.64                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,600.83                  |                         |
| 40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 10,318.31                 | 909.21                  |
| <i>For Class 52 Rating, Deduct</i>  | -983.48                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,357.64                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,026.84                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,687.10                  |                         |
| 40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 10,615.23                 | 912.59                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,015.58                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,401.47                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,092.04                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,773.37                  |                         |
| 40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 10,912.15                 | 915.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,047.68                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,445.30                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,157.24                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,859.64                  |                         |
| 40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 11,209.08                 | 919.33                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,079.78                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,489.14                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,222.43                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,945.91                  |                         |
| 40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 11,506.00                 | 922.69                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,111.88                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,532.97                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,287.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,032.18                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1375 | EA  |     | 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 11,802.92                 | 926.06                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,143.98                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,576.81                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,352.83                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,118.45                  |                         |
| 40 05 19 00-1376 | EA  |     | 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 12,099.84                 | 929.43                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,176.08                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,620.64                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,418.03                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,204.72                  |                         |
| 40 05 19 00-1377 | EA  |     | 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 12,396.77                 | 932.79                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,208.18                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,664.48                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,483.23                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,290.99                  |                         |
| 40 05 19 00-1378 | EA  |     | 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 12,693.69                 | 936.16                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,240.28                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,708.31                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,548.43                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,377.27                  |                         |
| 40 05 19 00-1379 | EA  |     | 20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 12,990.61                 | 939.53                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,272.38                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,752.14                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,613.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,463.54                  |                         |
| 40 05 19 00-1380 | EA  |     | 20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 13,287.53                 | 942.91                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,304.48                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,795.98                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,678.82                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,549.81                  |                         |
| 40 05 19 00-1381 | EA  |     | 20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 13,584.45                 | 946.26                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,336.58                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,839.81                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,744.02                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,636.08                  |                         |
| 40 05 19 00-1382 | EA  |     | 20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 13,881.38                 | 949.63                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,368.68                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,883.65                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,809.22                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,722.35                  |                         |
| 40 05 19 00-1383 | EA  |     | 20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 14,178.30                 | 953.00                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,400.78                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,927.48                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,874.42                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,808.62                  |                         |
| 40 05 19 00-1384 | EA  |     | 20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 14,475.22                 | 956.35                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,432.88                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,971.32                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,939.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,894.89                  |                         |
| 40 05 19 00-1385 |     |     | <b>24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1386 | EA  |     | 24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 4,272.73                  | 983.31                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -306.12                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 435.31                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 656.34                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 874.58                    |                         |
| 40 05 19 00-1387 | EA  |     | 24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 4,639.43                  | 986.67                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -345.89                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 489.61                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 737.10                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 981.44                    |                         |
| 40 05 19 00-1388 | EA  |     | 24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,006.13                  | 990.05                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -385.67                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 543.91                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 817.86                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,088.29                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1389 EA 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 5,372.84                  | 993.40                  |
| For Class 52 Rating, Deduct  | -425.44                   |                         |
| For Class 54 Rating, Add   | 598.21                    |                         |
| For Class 55 Rating, Add   | 898.62                    |                         |
| For Class 56 Rating, Add   | 1,195.15                  |                         |
| 40 05 19 00-1390 EA 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 5,739.55                  | 996.78                  |
| For Class 52 Rating, Deduct  | -465.22                   |                         |
| For Class 54 Rating, Add   | 652.52                    |                         |
| For Class 55 Rating, Add   | 979.38                    |                         |
| For Class 56 Rating, Add   | 1,302.01                  |                         |
| 40 05 19 00-1391 EA 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 6,106.25                  | 1,000.14                |
| For Class 52 Rating, Deduct  | -505.00                   |                         |
| For Class 54 Rating, Add   | 706.82                    |                         |
| For Class 55 Rating, Add   | 1,060.14                  |                         |
| For Class 56 Rating, Add   | 1,408.86                  |                         |
| 40 05 19 00-1392 EA 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 6,472.96                  | 1,003.52                |
| For Class 52 Rating, Deduct  | -544.77                   |                         |
| For Class 54 Rating, Add   | 761.12                    |                         |
| For Class 55 Rating, Add   | 1,140.90                  |                         |
| For Class 56 Rating, Add   | 1,515.72                  |                         |
| 40 05 19 00-1393 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 6,839.66                  | 1,006.87                |
| For Class 52 Rating, Deduct  | -584.55                   |                         |
| For Class 54 Rating, Add   | 815.42                    |                         |
| For Class 55 Rating, Add   | 1,221.66                  |                         |
| For Class 56 Rating, Add   | 1,622.58                  |                         |
| 40 05 19 00-1394 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 7,206.37                  | 1,010.25                |
| For Class 52 Rating, Deduct  | -624.33                   |                         |
| For Class 54 Rating, Add   | 869.72                    |                         |
| For Class 55 Rating, Add   | 1,302.42                  |                         |
| For Class 56 Rating, Add   | 1,729.43                  |                         |
| 40 05 19 00-1395 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 7,573.08                  | 1,013.62                |
| For Class 52 Rating, Deduct  | -664.10                   |                         |
| For Class 54 Rating, Add   | 924.02                    |                         |
| For Class 55 Rating, Add   | 1,383.18                  |                         |
| For Class 56 Rating, Add   | 1,836.29                  |                         |
| 40 05 19 00-1396 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 7,939.78                  | 1,016.98                |
| For Class 52 Rating, Deduct  | -703.88                   |                         |
| For Class 54 Rating, Add   | 978.33                    |                         |
| For Class 55 Rating, Add   | 1,463.94                  |                         |
| For Class 56 Rating, Add   | 1,943.15                  |                         |
| 40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 8,306.48                  | 1,020.34                |
| For Class 52 Rating, Deduct  | -743.66                   |                         |
| For Class 54 Rating, Add   | 1,032.63                  |                         |
| For Class 55 Rating, Add   | 1,544.70                  |                         |
| For Class 56 Rating, Add   | 2,050.00                  |                         |
| 40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 8,673.19                  | 1,023.72                |
| For Class 52 Rating, Deduct  | -783.43                   |                         |
| For Class 54 Rating, Add   | 1,086.93                  |                         |
| For Class 55 Rating, Add   | 1,625.46                  |                         |
| For Class 56 Rating, Add   | 2,156.86                  |                         |
| 40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 9,039.90                  | 1,027.09                |
| For Class 52 Rating, Deduct  | -823.21                   |                         |
| For Class 54 Rating, Add   | 1,141.23                  |                         |
| For Class 55 Rating, Add   | 1,706.22                  |                         |
| For Class 56 Rating, Add   | 2,263.72                  |                         |
| 40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 9,406.60                  | 1,030.45                |
| For Class 52 Rating, Deduct  | -862.98                   |                         |
| For Class 54 Rating, Add   | 1,195.53                  |                         |
| For Class 55 Rating, Add   | 1,786.98                  |                         |
| For Class 56 Rating, Add   | 2,370.57                  |                         |
| 40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 9,773.31                  | 1,033.82                |
| For Class 52 Rating, Deduct  | -902.76                   |                         |
| For Class 54 Rating, Add   | 1,249.83                  |                         |
| For Class 55 Rating, Add   | 1,867.74                  |                         |
| For Class 56 Rating, Add   | 2,477.43                  |                         |
| 40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron |                           |                         |
| Pipe .....   | 10,140.01                 | 1,037.19                |
| For Class 52 Rating, Deduct  | -942.54                   |                         |
| For Class 54 Rating, Add   | 1,304.14                  |                         |
| For Class 55 Rating, Add   | 1,948.50                  |                         |
| For Class 56 Rating, Add   | 2,584.29                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1403 | EA  |     | 24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,506.71              | 1,040.55             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -982.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,358.44               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,029.25               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,691.14               |                      |
| 40 05 19 00-1404 | EA  |     | 24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,873.43              | 1,043.92             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,022.09              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,412.74               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,110.02               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,798.00               |                      |
| 40 05 19 00-1405 | EA  |     | 24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,240.13              | 1,047.29             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,061.87              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,467.04               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,190.78               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,904.86               |                      |
| 40 05 19 00-1406 | EA  |     | 24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,606.84              | 1,050.66             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,101.64              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,521.34               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,271.54               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,011.72               |                      |
| 40 05 19 00-1407 | EA  |     | 24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,973.54              | 1,054.02             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,141.42              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,575.65               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,352.30               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,118.57               |                      |
| 40 05 19 00-1408 | EA  |     | 24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,340.25              | 1,057.39             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,181.20              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,629.95               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,433.06               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,225.43               |                      |
| 40 05 19 00-1409 | EA  |     | 24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,706.96              | 1,060.76             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,220.97              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,684.25               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,513.82               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,332.29               |                      |
| 40 05 19 00-1410 | EA  |     | 24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,073.66              | 1,064.14             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,260.75              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,738.55               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,594.58               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,439.14               |                      |
| 40 05 19 00-1411 | EA  |     | 24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,440.36              | 1,067.49             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,300.52              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,792.85               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,675.34               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,546.00               |                      |
| 40 05 19 00-1412 | EA  |     | 24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,807.07              | 1,070.86             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,340.30              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,847.15               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,756.10               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,652.86               |                      |
| 40 05 19 00-1413 | EA  |     | 24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,173.78              | 1,074.23             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,380.08              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,901.46               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,836.86               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,759.71               |                      |
| 40 05 19 00-1414 | EA  |     | 24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,540.48              | 1,077.59             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,419.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,955.76               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,917.62               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,866.57               |                      |
| 40 05 19 00-1415 | EA  |     | 24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,993.93              | 1,138.21             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,459.63              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,011.10               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,000.46               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,976.55               |                      |
| 40 05 19 00-1416 | EA  |     | 24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,360.63              | 1,141.57             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,499.41              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,065.40               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,081.22               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,083.40               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1417 EA 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 15,727.33                 | 1,144.95                |
| <i>For Class 52 Rating, Deduct</i>  | -1,539.18                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,119.70                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,161.98                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,190.26                  |                         |
| 40 05 19 00-1418 EA 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 16,094.04                 | 1,148.32                |
| <i>For Class 52 Rating, Deduct</i>  | -1,578.96                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,174.01                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,242.74                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,297.12                  |                         |
| 40 05 19 00-1419 EA 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 16,460.75                 | 1,151.68                |
| <i>For Class 52 Rating, Deduct</i>  | -1,618.74                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,228.31                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,323.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,403.97                  |                         |
| 40 05 19 00-1420 EA 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 16,827.45                 | 1,155.05                |
| <i>For Class 52 Rating, Deduct</i>  | -1,658.51                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,282.61                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,404.26                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,510.83                  |                         |
| 40 05 19 00-1421 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 17,194.16                 | 1,158.42                |
| <i>For Class 52 Rating, Deduct</i>  | -1,698.29                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,336.91                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,485.02                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,617.69                  |                         |
| 40 05 19 00-1422 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 17,560.86                 | 1,161.78                |
| <i>For Class 52 Rating, Deduct</i>  | -1,738.06                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,391.21                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,565.78                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,724.54                  |                         |
| 40 05 19 00-1423 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 17,927.56                 | 1,165.15                |
| <i>For Class 52 Rating, Deduct</i>  | -1,777.84                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,445.51                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,646.54                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,831.40                  |                         |
| <b>40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1425 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 6,500.58                  | 1,387.41                |
| <i>For Class 52 Rating, Deduct</i>  | -483.83                   |                         |
| <i>For Class 54 Rating, Add</i>   | 684.99                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,031.31                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,373.22                  |                         |
| 40 05 19 00-1426 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 7,028.00                  | 1,390.76                |
| <i>For Class 52 Rating, Deduct</i>  | -541.28                   |                         |
| <i>For Class 54 Rating, Add</i>   | 763.40                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,147.91                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,527.49                  |                         |
| 40 05 19 00-1427 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 7,555.41                  | 1,394.14                |
| <i>For Class 52 Rating, Deduct</i>  | -598.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 841.81                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,264.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,681.75                  |                         |
| 40 05 19 00-1428 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 8,082.83                  | 1,397.51                |
| <i>For Class 52 Rating, Deduct</i>  | -656.19                   |                         |
| <i>For Class 54 Rating, Add</i>   | 920.22                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,381.10                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,836.02                  |                         |
| 40 05 19 00-1429 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 8,610.25                  | 1,400.88                |
| <i>For Class 52 Rating, Deduct</i>  | -713.65                   |                         |
| <i>For Class 54 Rating, Add</i>   | 998.63                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,497.70                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,990.29                  |                         |
| 40 05 19 00-1430 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 9,137.67                  | 1,404.23                |
| <i>For Class 52 Rating, Deduct</i>  | -771.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,077.04                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,614.30                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,144.55                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1431 | EA  |     | 30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 9,665.09                  | 1,407.61                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -828.56                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,155.45                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,730.90                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,298.82                  |                         |
| 40 05 19 00-1432 | EA  |     | 30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 10,192.50                 | 1,410.98                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -886.01                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,233.85                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,847.50                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,453.09                  |                         |
| 40 05 19 00-1433 | EA  |     | 30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 10,719.92                 | 1,414.34                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -943.47                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,312.26                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,964.10                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,607.35                  |                         |
| 40 05 19 00-1434 | EA  |     | 30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 11,247.35                 | 1,417.71                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,000.92                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,390.67                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,080.70                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,761.62                  |                         |
| 40 05 19 00-1435 | EA  |     | 30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 11,774.76                 | 1,421.08                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,058.38                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,469.08                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,197.29                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,915.89                  |                         |
| 40 05 19 00-1436 | EA  |     | 30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 12,302.18                 | 1,424.45                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,115.83                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,547.49                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,313.89                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,070.16                  |                         |
| 40 05 19 00-1437 | EA  |     | 30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 12,829.59                 | 1,427.81                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,173.29                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,625.90                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,430.49                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,224.42                  |                         |
| 40 05 19 00-1438 | EA  |     | 30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 13,357.01                 | 1,431.18                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,230.74                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,704.31                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,547.09                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,378.69                  |                         |
| 40 05 19 00-1439 | EA  |     | 30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 13,884.44                 | 1,434.55                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,288.20                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,782.71                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,663.69                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,532.96                  |                         |
| 40 05 19 00-1440 | EA  |     | 30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 14,411.85                 | 1,437.91                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,345.65                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,861.12                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,780.29                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,687.22                  |                         |
| 40 05 19 00-1441 | EA  |     | 30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 14,939.27                 | 1,441.28                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,403.11                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,939.53                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,896.89                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,841.49                  |                         |
| 40 05 19 00-1442 | EA  |     | 30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 15,466.68                 | 1,444.65                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,460.56                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,017.94                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,013.49                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,995.76                  |                         |
| 40 05 19 00-1443 | EA  |     | 30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 15,994.10                 | 1,448.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,518.02                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,096.35                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,130.09                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,150.02                  |                         |
| 40 05 19 00-1444 | EA  |     | 30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 16,521.53                 | 1,451.38                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,575.47                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,174.76                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,246.69                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,304.29                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| 40 05   | 40        |
| <b>Ductile Iron Process Pipe 40 05 19</b>               |           |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 17,048.94                 | 1,454.75                |
| <i>For Class 52 Rating, Deduct</i>   | -1,632.92                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,253.17                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,363.28                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,458.56                  |                         |
| 40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 17,576.36                 | 1,458.12                |
| <i>For Class 52 Rating, Deduct</i>   | -1,690.38                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,331.57                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,479.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,612.83                  |                         |
| 40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 18,103.77                 | 1,461.48                |
| <i>For Class 52 Rating, Deduct</i>   | -1,747.83                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,409.98                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,596.48                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,767.09                  |                         |
| 40 05 19 00-1448 EA 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 18,631.20                 | 1,464.85                |
| <i>For Class 52 Rating, Deduct</i>   | -1,805.29                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,488.39                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,713.08                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,921.36                  |                         |
| 40 05 19 00-1449 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 19,158.62                 | 1,468.23                |
| <i>For Class 52 Rating, Deduct</i>   | -1,862.74                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,566.80                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,829.68                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,075.63                  |                         |
| 40 05 19 00-1450 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 19,686.03                 | 1,471.59                |
| <i>For Class 52 Rating, Deduct</i>   | -1,920.20                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,645.21                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,946.28                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,229.89                  |                         |
| 40 05 19 00-1451 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 20,213.45                 | 1,474.96                |
| <i>For Class 52 Rating, Deduct</i>   | -1,977.65                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,723.62                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,062.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,384.16                  |                         |
| 40 05 19 00-1452 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 20,740.87                 | 1,478.32                |
| <i>For Class 52 Rating, Deduct</i>   | -2,035.11                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,802.03                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,179.48                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,538.43                  |                         |
| 40 05 19 00-1453 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 21,268.29                 | 1,481.70                |
| <i>For Class 52 Rating, Deduct</i>   | -2,092.56                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,880.43                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,296.08                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,692.69                  |                         |
| 40 05 19 00-1454 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 21,795.71                 | 1,485.06                |
| <i>For Class 52 Rating, Deduct</i>   | -2,150.02                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,958.84                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,412.68                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,846.96                  |                         |
| 40 05 19 00-1455 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 22,323.12                 | 1,488.43                |
| <i>For Class 52 Rating, Deduct</i>   | -2,207.47                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,037.25                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,529.27                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,001.23                  |                         |
| 40 05 19 00-1456 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 22,850.54                 | 1,491.79                |
| <i>For Class 52 Rating, Deduct</i>   | -2,264.93                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,115.66                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,645.87                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,155.49                  |                         |
| 40 05 19 00-1457 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 23,377.97                 | 1,495.17                |
| <i>For Class 52 Rating, Deduct</i>   | -2,322.38                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,194.07                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,762.47                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,309.76                  |                         |
| 40 05 19 00-1458 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 23,905.38                 | 1,498.52                |
| <i>For Class 52 Rating, Deduct</i>   | -2,379.84                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,272.48                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,879.07                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,464.03                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-1459 | EA  |     | 30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 24,432.80              | 1,501.90             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,437.29              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,350.89               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 4,995.67               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 6,618.30               |                      |
| 40 05 19 00-1460 | EA  |     | 30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 24,960.21              | 1,505.26             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,494.75              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,429.29               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,112.27               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 6,772.56               |                      |
| 40 05 19 00-1461 | EA  |     | 30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 25,487.63              | 1,508.64             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,552.20              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,507.70               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,228.87               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 6,926.83               |                      |
| 40 05 19 00-1462 | EA  |     | 30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                   | 26,015.06              | 1,511.99             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,609.66              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,586.11               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,345.47               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 7,081.10               |                      |
| 40 05 19 00-1463 |     |     | <b>36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                        |                      |
| 40 05 19 00-1464 | EA  |     | 36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 8,926.93               | 1,757.83             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -688.99                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 971.49                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,460.69               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,943.63               |                      |
| 40 05 19 00-1465 | EA  |     | 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 9,642.55               | 1,761.21             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -767.15                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,078.13               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,619.26               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,153.42               |                      |
| 40 05 19 00-1466 | EA  |     | 36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 10,358.18              | 1,764.56             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -845.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,184.77               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,777.83               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,363.21               |                      |
| 40 05 19 00-1467 | EA  |     | 36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 11,073.80              | 1,767.93             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -923.46                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,291.41               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,936.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,572.99               |                      |
| 40 05 19 00-1468 | EA  |     | 36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 11,789.42              | 1,771.30             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,001.62              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,398.05               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,094.97               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,782.78               |                      |
| 40 05 19 00-1469 | EA  |     | 36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 12,505.04              | 1,774.65             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,079.78              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,504.69               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,253.54               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,992.57               |                      |
| 40 05 19 00-1470 | EA  |     | 36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 13,220.67              | 1,778.03             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,157.93              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,611.33               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,412.11               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,202.35               |                      |
| 40 05 19 00-1471 | EA  |     | 36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 13,936.29              | 1,781.41             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,236.09              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,717.97               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,570.67               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,412.14               |                      |
| 40 05 19 00-1472 | EA  |     | 36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....                    | 14,651.91              | 1,784.77             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,314.25              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,824.61               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,729.24               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,621.93               |                      |



|   |
|---|
| <b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>                            |
| <b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span> |
| Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>                         |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 15,367.53                 | 1,788.12                |
| <i>For Class 52 Rating, Deduct</i>  | -1,392.41                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,931.25                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,887.81                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,831.72                  |                         |
| 40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 16,083.14                 | 1,791.50                |
| <i>For Class 52 Rating, Deduct</i>  | -1,470.56                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,037.89                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,046.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,041.50                  |                         |
| 40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 16,798.77                 | 1,794.88                |
| <i>For Class 52 Rating, Deduct</i>  | -1,548.72                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,144.52                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,204.95                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,251.29                  |                         |
| 40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 17,514.39                 | 1,798.23                |
| <i>For Class 52 Rating, Deduct</i>  | -1,626.88                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,251.16                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,363.51                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,461.07                  |                         |
| 40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 18,230.01                 | 1,801.61                |
| <i>For Class 52 Rating, Deduct</i>  | -1,705.03                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,357.80                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,522.08                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,670.86                  |                         |
| 40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 18,945.63                 | 1,804.97                |
| <i>For Class 52 Rating, Deduct</i>  | -1,783.19                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,464.44                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,680.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,880.65                  |                         |
| 40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 19,661.26                 | 1,808.35                |
| <i>For Class 52 Rating, Deduct</i>  | -1,861.35                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,571.08                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,839.22                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,090.44                  |                         |
| 40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 20,376.88                 | 1,811.70                |
| <i>For Class 52 Rating, Deduct</i>  | -1,939.51                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,677.72                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,997.79                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,300.22                  |                         |
| 40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron<br>Pipe .....  | 21,092.50                 | 1,815.08                |
| <i>For Class 52 Rating, Deduct</i>  | -2,017.66                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,784.36                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,156.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,510.01                  |                         |
| 40 05 19 00-1482 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 21,808.12                 | 1,818.44                |
| <i>For Class 52 Rating, Deduct</i>  | -2,095.82                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,891.00                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,314.92                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,719.80                  |                         |
| 40 05 19 00-1483 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 22,523.74                 | 1,821.82                |
| <i>For Class 52 Rating, Deduct</i>  | -2,173.98                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,997.64                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,473.49                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,929.58                  |                         |
| 40 05 19 00-1484 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 23,239.36                 | 1,825.17                |
| <i>For Class 52 Rating, Deduct</i>  | -2,252.13                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,104.28                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,632.06                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,139.37                  |                         |
| 40 05 19 00-1485 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 23,954.98                 | 1,828.55                |
| <i>For Class 52 Rating, Deduct</i>  | -2,330.29                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,210.92                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,790.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,349.15                  |                         |
| 40 05 19 00-1486 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile<br>Iron Pipe ..... | 24,670.60                 | 1,831.92                |
| <i>For Class 52 Rating, Deduct</i>  | -2,408.45                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,317.55                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,949.20                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,558.94                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1487 | EA  | 36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 25,386.22                 | 1,835.28                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,486.61                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 3,424.19                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 5,107.76                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 6,768.73                  |                         |
| 40 05 19 00-1488 | EA  | 36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 26,101.84                 | 1,838.64                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,564.76                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 3,530.83                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 5,266.33                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 6,978.52                  |                         |
| 40 05 19 00-1489 | EA  | 36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 26,817.47                 | 1,842.02                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,642.92                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 3,637.47                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 5,424.90                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 7,188.30                  |                         |
| 40 05 19 00-1490 | EA  | 36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 27,533.09                 | 1,845.39                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,721.08                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 3,744.11                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 5,583.47                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 7,398.09                  |                         |
| 40 05 19 00-1491 | EA  | 36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 28,248.71                 | 1,848.75                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,799.23                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 3,850.75                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 5,742.04                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 7,607.88                  |                         |
| 40 05 19 00-1492 | EA  | 36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 28,964.33                 | 1,852.12                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,877.39                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 3,957.39                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 5,900.61                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 7,817.66                  |                         |
| 40 05 19 00-1493 | EA  | 36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 29,679.96                 | 1,855.49                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,955.55                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,064.03                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 6,059.17                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 8,027.45                  |                         |
| 40 05 19 00-1494 | EA  | 36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 30,395.58                 | 1,858.85                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,033.70                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,170.67                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 6,217.74                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 8,237.24                  |                         |
| 40 05 19 00-1495 | EA  | 36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 31,111.20                 | 1,862.22                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,111.86                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,277.31                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 6,376.31                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 8,447.02                  |                         |
| 40 05 19 00-1496 | EA  | 36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 31,826.82                 | 1,865.59                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,190.02                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,383.95                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 6,534.88                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 8,666.81                  |                         |
| 40 05 19 00-1497 | EA  | 36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 32,542.44                 | 1,868.96                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,268.18                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,490.58                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 6,693.45                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 8,866.60                  |                         |
| 40 05 19 00-1498 | EA  | 36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 33,258.07                 | 1,872.32                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,346.33                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,597.22                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 6,852.01                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 9,076.38                  |                         |
| 40 05 19 00-1499 | EA  | 36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 33,973.69                 | 1,875.69                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,424.49                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,703.86                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 7,010.58                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 9,286.17                  |                         |
| 40 05 19 00-1500 | EA  | 36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 34,689.31                 | 1,879.06                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,502.65                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 4,810.50                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 7,169.15                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 9,495.96                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                      | 35,404.93                 | 1,882.42                |
| For Class 52 Rating, Deduct   | -3,580.80                 |                         |
| For Class 54 Rating, Add  | 4,917.14                  |                         |
| For Class 55 Rating, Add  | 7,327.72                  |                         |
| For Class 56 Rating, Add  | 9,705.74                  |                         |
| <b>40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small> |                           |                         |
| 40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 11,754.53                 | 2,215.81                |
| For Class 52 Rating, Deduct   | -923.70                   |                         |
| For Class 54 Rating, Add  | 1,299.87                  |                         |
| For Class 55 Rating, Add  | 1,953.16                  |                         |
| For Class 56 Rating, Add  | 2,598.05                  |                         |
| 40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 12,821.17                 | 2,219.17                |
| For Class 52 Rating, Deduct   | -1,040.47                 |                         |
| For Class 54 Rating, Add  | 1,459.17                  |                         |
| For Class 55 Rating, Add  | 2,190.01                  |                         |
| For Class 56 Rating, Add  | 2,911.39                  |                         |
| 40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 13,875.14                 | 2,222.53                |
| For Class 52 Rating, Deduct   | -1,155.84                 |                         |
| For Class 54 Rating, Add  | 1,616.56                  |                         |
| For Class 55 Rating, Add  | 2,424.03                  |                         |
| For Class 56 Rating, Add  | 3,220.99                  |                         |
| 40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 14,939.67                 | 2,225.91                |
| For Class 52 Rating, Deduct   | -1,272.38                 |                         |
| For Class 54 Rating, Add  | 1,775.53                  |                         |
| For Class 55 Rating, Add  | 2,660.40                  |                         |
| For Class 56 Rating, Add  | 3,533.70                  |                         |
| 40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 15,993.63                 | 2,229.28                |
| For Class 52 Rating, Deduct   | -1,387.75                 |                         |
| For Class 54 Rating, Add  | 1,932.92                  |                         |
| For Class 55 Rating, Add  | 2,894.42                  |                         |
| For Class 56 Rating, Add  | 3,843.30                  |                         |
| 40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 17,060.29                 | 2,232.64                |
| For Class 52 Rating, Deduct   | -1,504.52                 |                         |
| For Class 54 Rating, Add  | 2,092.22                  |                         |
| For Class 55 Rating, Add  | 3,131.27                  |                         |
| For Class 56 Rating, Add  | 4,156.64                  |                         |
| 40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 18,112.14                 | 2,236.01                |
| For Class 52 Rating, Deduct   | -1,619.67                 |                         |
| For Class 54 Rating, Add  | 2,249.29                  |                         |
| For Class 55 Rating, Add  | 3,364.82                  |                         |
| For Class 56 Rating, Add  | 4,465.62                  |                         |
| 40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 19,178.79                 | 2,239.38                |
| For Class 52 Rating, Deduct   | -1,736.44                 |                         |
| For Class 54 Rating, Add  | 2,408.58                  |                         |
| For Class 55 Rating, Add  | 3,601.66                  |                         |
| For Class 56 Rating, Add  | 4,778.96                  |                         |
| 40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 20,232.75                 | 2,242.75                |
| For Class 52 Rating, Deduct   | -1,851.81                 |                         |
| For Class 54 Rating, Add  | 2,565.97                  |                         |
| For Class 55 Rating, Add  | 3,835.68                  |                         |
| For Class 56 Rating, Add  | 5,088.55                  |                         |
| 40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 21,297.28                 | 2,246.11                |
| For Class 52 Rating, Deduct   | -1,968.35                 |                         |
| For Class 54 Rating, Add  | 2,724.95                  |                         |
| For Class 55 Rating, Add  | 4,072.06                  |                         |
| For Class 56 Rating, Add  | 5,401.27                  |                         |
| 40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 22,351.26                 | 2,249.48                |
| For Class 52 Rating, Deduct   | -2,083.72                 |                         |
| For Class 54 Rating, Add  | 2,882.34                  |                         |
| For Class 55 Rating, Add  | 4,306.08                  |                         |
| For Class 56 Rating, Add  | 5,710.87                  |                         |
| 40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe                       | 23,415.79                 | 2,252.85                |
| For Class 52 Rating, Deduct   | -2,200.26                 |                         |
| For Class 54 Rating, Add  | 3,041.32                  |                         |
| For Class 55 Rating, Add  | 4,542.45                  |                         |
| For Class 56 Rating, Add  | 6,023.58                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1515 | EA  |     | 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 24,469.75                 | 2,256.21                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,315.64                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,198.71                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 4,776.47                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 6,333.18                  |                         |
| 40 05 19 00-1516 | EA  |     | 42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 25,525.83                 | 2,259.58                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,431.24                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,356.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,010.96                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 6,643.40                  |                         |
| 40 05 19 00-1517 | EA  |     | 42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 26,588.26                 | 2,262.95                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,547.55                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,515.08                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,246.87                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 6,955.50                  |                         |
| 40 05 19 00-1518 | EA  |     | 42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 27,642.22                 | 2,266.33                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,662.92                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,672.47                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,480.88                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 7,265.10                  |                         |
| 40 05 19 00-1519 | EA  |     | 42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 28,708.87                 | 2,269.68                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,779.69                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,831.76                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,717.73                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 7,578.44                  |                         |
| 40 05 19 00-1520 | EA  |     | 42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....  | 29,762.83                 | 2,273.05                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -2,895.07                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 3,989.15                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 5,951.75                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 7,888.03                  |                         |
| 40 05 19 00-1521 | EA  |     | 42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 30,827.36                 | 2,276.42                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,011.61                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 4,148.13                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 6,188.13                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 8,200.75                  |                         |
| 40 05 19 00-1522 | EA  |     | 42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 31,881.34                 | 2,279.78                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,126.98                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 4,305.52                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 6,422.15                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 8,510.35                  |                         |
| 40 05 19 00-1523 | EA  |     | 42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 32,947.98                 | 2,283.15                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,243.75                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 4,464.81                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 6,658.99                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 8,823.69                  |                         |
| 40 05 19 00-1524 | EA  |     | 42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 34,001.95                 | 2,286.53                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,359.13                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 4,622.20                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 6,893.01                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 9,133.29                  |                         |
| 40 05 19 00-1525 | EA  |     | 42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 35,066.48                 | 2,289.89                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,475.66                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 4,781.18                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 7,129.39                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 9,446.00                  |                         |
| 40 05 19 00-1526 | EA  |     | 42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 36,120.44                 | 2,293.25                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,591.04                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 4,938.57                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 7,363.41                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 9,755.60                  |                         |
| 40 05 19 00-1527 | EA  |     | 42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 37,187.10                 | 2,296.62                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,707.81                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 5,097.86                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 7,600.26                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 10,068.94                 |                         |
| 40 05 19 00-1528 | EA  |     | 42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 38,241.06                 | 2,300.00                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -3,823.18                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 5,255.25                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 7,834.27                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 10,378.54                 |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1529 EA 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 39,303.48                 | 2,303.35                |
| For Class 52 Rating, Deduct  | -3,939.49                 |                         |
| For Class 54 Rating, Add   | 5,413.91                  |                         |
| For Class 55 Rating, Add   | 8,070.18                  |                         |
| For Class 56 Rating, Add   | 10,690.63                 |                         |
| 40 05 19 00-1530 EA 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 40,359.56                 | 2,306.73                |
| For Class 52 Rating, Deduct  | -4,055.10                 |                         |
| For Class 54 Rating, Add   | 5,571.62                  |                         |
| For Class 55 Rating, Add   | 8,304.67                  |                         |
| For Class 56 Rating, Add   | 11,000.85                 |                         |
| 40 05 19 00-1531 EA 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 41,202.07                 | 2,310.09                |
| For Class 52 Rating, Deduct  | -4,147.21                 |                         |
| For Class 54 Rating, Add   | 5,697.29                  |                         |
| For Class 55 Rating, Add   | 8,491.53                  |                         |
| For Class 56 Rating, Add   | 11,248.07                 |                         |
| 40 05 19 00-1532 EA 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 42,478.07                 | 2,313.47                |
| For Class 52 Rating, Deduct  | -4,287.01                 |                         |
| For Class 54 Rating, Add   | 5,887.99                  |                         |
| For Class 55 Rating, Add   | 8,775.06                  |                         |
| For Class 56 Rating, Add   | 11,623.17                 |                         |
| 40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 43,532.03                 | 2,316.82                |
| For Class 52 Rating, Deduct  | -4,402.38                 |                         |
| For Class 54 Rating, Add   | 6,045.38                  |                         |
| For Class 55 Rating, Add   | 9,009.08                  |                         |
| For Class 56 Rating, Add   | 11,932.77                 |                         |
| 40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 44,596.56                 | 2,320.20                |
| For Class 52 Rating, Deduct  | -4,518.92                 |                         |
| For Class 54 Rating, Add   | 6,204.35                  |                         |
| For Class 55 Rating, Add   | 9,245.46                  |                         |
| For Class 56 Rating, Add   | 12,245.48                 |                         |
| 40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 45,650.52                 | 2,323.56                |
| For Class 52 Rating, Deduct  | -4,634.30                 |                         |
| For Class 54 Rating, Add   | 6,361.74                  |                         |
| For Class 55 Rating, Add   | 9,479.48                  |                         |
| For Class 56 Rating, Add   | 12,555.08                 |                         |
| 40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 46,717.18                 | 2,326.94                |
| For Class 52 Rating, Deduct  | -4,751.07                 |                         |
| For Class 54 Rating, Add   | 6,521.04                  |                         |
| For Class 55 Rating, Add   | 9,716.32                  |                         |
| For Class 56 Rating, Add   | 12,868.42                 |                         |
| 40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 47,769.03                 | 2,330.29                |
| For Class 52 Rating, Deduct  | -4,866.21                 |                         |
| For Class 54 Rating, Add   | 6,678.11                  |                         |
| For Class 55 Rating, Add   | 9,949.87                  |                         |
| For Class 56 Rating, Add   | 13,177.40                 |                         |
| 40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 48,835.68                 | 2,333.67                |
| For Class 52 Rating, Deduct  | -4,982.98                 |                         |
| For Class 54 Rating, Add   | 6,837.40                  |                         |
| For Class 55 Rating, Add   | 10,186.72                 |                         |
| For Class 56 Rating, Add   | 13,490.74                 |                         |
| 40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 49,889.64                 | 2,337.04                |
| For Class 52 Rating, Deduct  | -5,098.35                 |                         |
| For Class 54 Rating, Add   | 6,994.79                  |                         |
| For Class 55 Rating, Add   | 10,420.74                 |                         |
| For Class 56 Rating, Add   | 13,800.34                 |                         |
| 40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 50,954.17                 | 2,340.40                |
| For Class 52 Rating, Deduct  | -5,214.89                 |                         |
| For Class 54 Rating, Add   | 7,153.77                  |                         |
| For Class 55 Rating, Add   | 10,657.11                 |                         |
| For Class 56 Rating, Add   | 14,113.05                 |                         |
| <b>40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>              |                           |                         |
| <small>(40 05 19 00-1028)</small>  |                           |                         |
| 40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 15,139.56                 | 2,784.90                |
| For Class 52 Rating, Deduct  | -1,201.20                 |                         |
| For Class 54 Rating, Add   | 1,688.63                  |                         |
| For Class 55 Rating, Add   | 2,536.43                  |                         |
| For Class 56 Rating, Add   | 3,373.30                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-1543 | EA  |     | 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 16,690.46              | 2,788.28             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,371.24              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,920.57               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,881.27               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,829.50               |                      |
| 40 05 19 00-1544 | EA  |     | 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 18,239.25              | 2,791.65             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,541.04              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,152.18               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 3,225.63               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 4,285.07               |                      |
| 40 05 19 00-1545 | EA  |     | 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 19,800.73              | 2,795.02             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,712.24              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,385.70               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 3,572.82               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 4,744.38               |                      |
| 40 05 19 00-1546 | EA  |     | 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 21,351.64              | 2,798.37             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,882.28              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,617.63               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 3,917.66               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 5,200.58               |                      |
| 40 05 19 00-1547 | EA  |     | 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 22,902.54              | 2,801.75             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,052.32              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,849.56               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 4,262.50               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 5,656.78               |                      |
| 40 05 19 00-1548 | EA  |     | 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 24,461.90              | 2,805.12             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,223.29              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,082.76               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 4,609.22               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,115.47               |                      |
| 40 05 19 00-1549 | EA  |     | 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 26,014.92              | 2,808.48             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,393.56              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,315.01               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 4,954.53               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 6,572.29               |                      |
| 40 05 19 00-1550 | EA  |     | 48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 27,563.71              | 2,811.85             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,563.37              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,546.62               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,298.89               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,027.86               |                      |
| 40 05 19 00-1551 | EA  |     | 48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 29,125.19              | 2,815.22             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,734.57              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 3,780.14               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,646.09               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,487.17               |                      |
| 40 05 19 00-1552 | EA  |     | 48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 30,676.09              | 2,818.59             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -2,904.61              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,012.07               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 5,990.92               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 7,943.37               |                      |
| 40 05 19 00-1553 | EA  |     | 48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 32,237.56              | 2,821.95             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,075.81              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,245.59               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,338.12               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,402.68               |                      |
| 40 05 19 00-1554 | EA  |     | 48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 33,786.35              | 2,825.32             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,245.61              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,477.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,682.48               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,858.25               |                      |
| 40 05 19 00-1555 | EA  |     | 48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 35,337.26              | 2,828.69             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,415.65              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,709.14               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,027.32               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,314.45               |                      |
| 40 05 19 00-1556 | EA  |     | 48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 36,898.74              | 2,832.06             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,586.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,942.65               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,374.51               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,773.76               |                      |



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|--|
| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1557 EA 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 38,449.64                 | 2,835.42                |
| <i>For Class 52 Rating, Deduct</i>   | -3,756.89                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,174.59                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,719.35                  |                         |
| <i>For Class 56 Rating, Add</i>  | 10,229.96                 |                         |
| 40 05 19 00-1558 EA 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 39,998.43                 | 2,838.79                |
| <i>For Class 52 Rating, Deduct</i>   | -3,926.70                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,406.20                  |                         |
| <i>For Class 55 Rating, Add</i>  | 8,063.71                  |                         |
| <i>For Class 56 Rating, Add</i>  | 10,685.53                 |                         |
| 40 05 19 00-1559 EA 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe  | 41,559.91                 | 2,842.17                |
| <i>For Class 52 Rating, Deduct</i>   | -4,097.90                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,639.72                  |                         |
| <i>For Class 55 Rating, Add</i>  | 8,410.91                  |                         |
| <i>For Class 56 Rating, Add</i>  | 11,144.84                 |                         |
| 40 05 19 00-1560 EA 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 43,110.81                 | 2,845.52                |
| <i>For Class 52 Rating, Deduct</i>   | -4,267.94                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,871.65                  |                         |
| <i>For Class 55 Rating, Add</i>  | 8,755.74                  |                         |
| <i>For Class 56 Rating, Add</i>  | 11,601.04                 |                         |
| 40 05 19 00-1561 EA 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 44,659.60                 | 2,848.89                |
| <i>For Class 52 Rating, Deduct</i>   | -4,437.74                 |                         |
| <i>For Class 54 Rating, Add</i>  | 6,103.26                  |                         |
| <i>For Class 55 Rating, Add</i>  | 9,100.11                  |                         |
| <i>For Class 56 Rating, Add</i>  | 12,056.61                 |                         |
| 40 05 19 00-1562 EA 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 46,221.08                 | 2,852.26                |
| <i>For Class 52 Rating, Deduct</i>   | -4,608.94                 |                         |
| <i>For Class 54 Rating, Add</i>  | 6,336.78                  |                         |
| <i>For Class 55 Rating, Add</i>  | 9,447.30                  |                         |
| <i>For Class 56 Rating, Add</i>  | 12,515.92                 |                         |
| 40 05 19 00-1563 EA 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 47,774.09                 | 2,855.64                |
| <i>For Class 52 Rating, Deduct</i>   | -4,779.21                 |                         |
| <i>For Class 54 Rating, Add</i>  | 6,569.03                  |                         |
| <i>For Class 55 Rating, Add</i>  | 9,792.61                  |                         |
| <i>For Class 56 Rating, Add</i>  | 12,972.74                 |                         |
| 40 05 19 00-1564 EA 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 49,322.89                 | 2,858.99                |
| <i>For Class 52 Rating, Deduct</i>   | -4,949.02                 |                         |
| <i>For Class 54 Rating, Add</i>  | 6,800.64                  |                         |
| <i>For Class 55 Rating, Add</i>  | 10,136.97                 |                         |
| <i>For Class 56 Rating, Add</i>  | 13,428.31                 |                         |
| 40 05 19 00-1565 EA 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 50,884.37                 | 2,862.37                |
| <i>For Class 52 Rating, Deduct</i>   | -5,120.22                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,034.16                  |                         |
| <i>For Class 55 Rating, Add</i>  | 10,484.17                 |                         |
| <i>For Class 56 Rating, Add</i>  | 13,887.63                 |                         |
| 40 05 19 00-1566 EA 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 52,435.27                 | 2,865.73                |
| <i>For Class 52 Rating, Deduct</i>   | -5,290.26                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,266.09                  |                         |
| <i>For Class 55 Rating, Add</i>  | 10,829.01                 |                         |
| <i>For Class 56 Rating, Add</i>  | 14,343.82                 |                         |
| 40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 53,984.05                 | 2,869.09                |
| <i>For Class 52 Rating, Deduct</i>   | -5,460.06                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,497.71                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,173.37                 |                         |
| <i>For Class 56 Rating, Add</i>  | 14,799.39                 |                         |
| 40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 55,545.53                 | 2,872.46                |
| <i>For Class 52 Rating, Deduct</i>   | -5,631.27                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,731.22                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,520.56                 |                         |
| <i>For Class 56 Rating, Add</i>  | 15,258.71                 |                         |
| 40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 57,096.45                 | 2,875.84                |
| <i>For Class 52 Rating, Deduct</i>   | -5,801.30                 |                         |
| <i>For Class 54 Rating, Add</i>  | 7,963.16                  |                         |
| <i>For Class 55 Rating, Add</i>  | 11,865.40                 |                         |
| <i>For Class 56 Rating, Add</i>  | 15,714.90                 |                         |
| 40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe | 58,457.04                 | 2,879.20                |
| <i>For Class 52 Rating, Deduct</i>   | -5,950.41                 |                         |
| <i>For Class 54 Rating, Add</i>  | 8,166.54                  |                         |
| <i>For Class 55 Rating, Add</i>  | 12,167.80                 |                         |
| <i>For Class 56 Rating, Add</i>  | 16,114.96                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 40 05 19 00-1571 | EA  | 48" Flanged x Plain End (FxpE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 60,208.83                 | 2,882.57                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -6,142.54                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 8,428.61                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 12,557.43                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 16,630.41                 |                         |
| 40 05 19 00-1572 | EA  | 48" Flanged x Plain End (FxpE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 61,757.62                 | 2,885.93                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -6,312.35                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 8,660.22                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 12,901.80                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 17,085.99                 |                         |
| 40 05 19 00-1573 | EA  | 48" Flanged x Plain End (FxpE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 63,321.22                 | 2,889.31                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -6,483.78                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 8,894.05                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 13,249.46                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 17,545.93                 |                         |
| 40 05 19 00-1574 | EA  | 48" Flanged x Plain End (FxpE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 64,870.00                 | 2,892.66                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -6,653.59                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 9,125.67                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 13,593.82                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 18,001.49                 |                         |
| 40 05 19 00-1575 | EA  | 48" Flanged x Plain End (FxpE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 66,418.79                 | 2,896.04                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -6,823.39                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 9,357.28                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 13,938.19                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 18,457.07                 |                         |
| 40 05 19 00-1576 | EA  | 48" Flanged x Plain End (FxpE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 67,982.38                 | 2,899.40                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -6,994.83                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 9,591.12                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 14,285.86                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 18,917.00                 |                         |
| 40 05 19 00-1577 | EA  | 48" Flanged x Plain End (FxpE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 69,531.17                 | 2,902.78                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -7,164.63                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 9,822.73                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 14,630.22                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 19,372.58                 |                         |
| 40 05 19 00-1578 | EA  | 48" Flanged x Plain End (FxpE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 71,082.08                 | 2,906.13                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -7,334.67                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 10,054.66                 |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 14,975.06                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 19,828.77                 |                         |
| 40 05 19 00-1579 | EA  | 48" Flanged x Plain End (FxpE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ..... | 72,643.55                 | 2,909.51                |
|                  |     | <i>For Class 52 Rating, Deduct</i> .....   | -7,505.87                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i> .....  | 10,288.18                 |                         |
|                  |     | <i>For Class 55 Rating, Add</i> .....  | 15,322.25                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i> .....  | 20,288.08                 |                         |

**40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree****Elbows (40 05 19 00-0001)**

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-1581 | EA | 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....  | 463.08    | 162.47   |
| 40 05 19 00-1582 | EA | 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....  | 650.46    | 207.76   |
| 40 05 19 00-1583 | EA | 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....  | 909.15    | 235.33   |
| 40 05 19 00-1584 | EA | 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 1,329.22  | 298.34   |
| 40 05 19 00-1585 | EA | 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 1,644.46  | 330.84   |
| 40 05 19 00-1586 | EA | 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 2,048.73  | 359.39   |
| 40 05 19 00-1587 | EA | 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 2,523.88  | 443.09   |
| 40 05 19 00-1588 | EA | 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 3,310.50  | 531.71   |
| 40 05 19 00-1589 | EA | 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 4,078.28  | 669.56   |
| 40 05 19 00-1590 | EA | 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 6,199.67  | 758.17   |
| 40 05 19 00-1591 | EA | 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 10,421.79 | 1,004.34 |
| 40 05 19 00-1592 | EA | 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 14,768.43 | 1,137.26 |
| 40 05 19 00-1593 | EA | 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 24,723.76 | 1,299.73 |
| 40 05 19 00-1594 | EA | 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow ..... | 32,917.11 | 1,595.12 |

**40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree****Elbows (40 05 19 00-0001)**

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 40 05 19 00-1596 | EA | 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 439.33   | 162.47 |
| 40 05 19 00-1597 | EA | 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 612.46   | 207.76 |
| 40 05 19 00-1598 | EA | 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 812.57   | 235.33 |
| 40 05 19 00-1599 | EA | 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow ..... | 1,189.89 | 298.34 |
| 40 05 19 00-1600 | EA | 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow ..... | 1,467.12 | 330.84 |
| 40 05 19 00-1601 | EA | 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow ..... | 1,687.73 | 359.39 |
| 40 05 19 00-1602 | EA | 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow ..... | 2,124.87 | 443.09 |
| 40 05 19 00-1603 | EA | 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow ..... | 2,773.74 | 531.71 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 3,589.02                  | 669.56                  |
| 40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 4,723.98                  | 758.17                  |
| 40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 9,341.94                  | 1,004.34                |
| 40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 13,979.92                 | 1,137.26                |
| 40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 21,333.78                 | 1,299.73                |
| 40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....  | 29,082.22                 | 1,595.12                |
| <b>40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows</b><br><small>(40 05 19 00-0001)</small>      |                           |                         |
| 40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                       | 437.75                    | 162.47                  |
| 40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                       | 599.79                    | 207.76                  |
| 40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                       | 801.48                    | 235.33                  |
| 40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 1,158.22                  | 298.34                  |
| 40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 1,536.79                  | 330.84                  |
| 40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 1,907.81                  | 359.39                  |
| 40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 2,173.96                  | 443.09                  |
| 40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 2,833.90                  | 531.71                  |
| 40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 3,850.28                  | 669.56                  |
| 40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 5,319.32                  | 758.17                  |
| 40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 9,448.02                  | 1,004.34                |
| 40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 14,223.76                 | 1,137.26                |
| 40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 21,819.87                 | 1,299.73                |
| 40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....                                      | 29,715.56                 | 1,595.12                |
| <b>40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows</b><br><small>(40 05 19 00-0001)</small>      |                           |                         |
| 40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                       | 477.33                    | 162.47                  |
| 40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                       | 674.21                    | 207.76                  |
| 40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                       | 833.15                    | 235.33                  |
| 40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 1,270.64                  | 298.34                  |
| 40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 1,744.21                  | 330.84                  |
| 40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 1,961.65                  | 359.39                  |
| 40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 2,398.80                  | 443.09                  |
| 40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 2,833.90                  | 531.71                  |
| 40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 3,850.28                  | 669.56                  |
| 40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 5,533.07                  | 758.17                  |
| 40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 9,554.11                  | 1,004.34                |
| 40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 14,328.26                 | 1,137.26                |
| 40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 21,930.71                 | 1,299.73                |
| 40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....                                      | 29,938.81                 | 1,595.12                |
| <b>40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows</b><br><small>(40 05 19 00-0001)</small> |                           |                         |
| 40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                             | 614.56                    | 185.12                  |
| 40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                             | 757.37                    | 198.90                  |
| 40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                             | 853.43                    | 221.55                  |
| 40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,137.61                  | 230.41                  |
| 40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,202.02                  | 253.05                  |
| 40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,313.15                  | 266.84                  |
| 40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,223.15                  | 247.15                  |
| 40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,377.80                  | 269.80                  |
| 40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,582.36                  | 283.58                  |
| 40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 1,687.09                  | 315.09                  |
| 40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,582.36                  | 283.58                  |
| 40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,752.07                  | 297.36                  |
| 40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 1,951.81                  | 328.87                  |
| 40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 2,159.26                  | 345.61                  |
| 40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,824.68                  | 325.43                  |
| 40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 1,967.47                  | 339.21                  |
| 40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 2,257.48                  | 370.72                  |
| 40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 2,462.59                  | 386.96                  |
| 40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 2,636.23                  | 401.24                  |
| 40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 2,134.06                  | 369.73                  |
| 40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 2,549.21                  | 383.52                  |
| 40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 2,627.03                  | 415.03                  |
| 40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 2,773.57                  | 431.27                  |
| 40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 3,007.37                  | 445.55                  |
| 40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 3,279.77                  | 487.40                  |
| 40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 2,751.50                  | 438.66                  |
| 40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 2,935.47                  | 452.44                  |
| 40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 3,633.98                  | 483.96                  |
| 40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 3,771.01                  | 500.20                  |
| 40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 4,156.82                  | 514.48                  |
| 40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 4,069.81                  | 556.32                  |
| 40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                           | 4,333.27                  | 600.63                  |
| 40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 3,860.49                  | 482.97                  |
| 40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....                            | 4,046.04                  | 496.75                  |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 40 05 19 00-1675 | EA | 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 4,353.46  | 528.26   |
| 40 05 19 00-1676 | EA | 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 4,574.42  | 544.51   |
| 40 05 19 00-1677 | EA | 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 4,987.14  | 558.78   |
| 40 05 19 00-1678 | EA | 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 5,375.13  | 600.63   |
| 40 05 19 00-1679 | EA | 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 5,507.17  | 644.94   |
| 40 05 19 00-1680 | EA | 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 5,789.28  | 637.81   |
| 40 05 19 00-1681 | EA | 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 6,876.27  | 667.59   |
| 40 05 19 00-1682 | EA | 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 7,317.49  | 681.86   |
| 40 05 19 00-1683 | EA | 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 8,245.40  | 723.71   |
| 40 05 19 00-1684 | EA | 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 9,579.23  | 768.03   |
| 40 05 19 00-1685 | EA | 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 11,072.27 | 836.95   |
| 40 05 19 00-1686 | EA | 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 11,693.58 | 881.25   |
| 40 05 19 00-1687 | EA | 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 9,458.09  | 734.05   |
| 40 05 19 00-1688 | EA | 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 12,234.77 | 748.33   |
| 40 05 19 00-1689 | EA | 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 9,962.72  | 790.17   |
| 40 05 19 00-1690 | EA | 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 12,993.90 | 834.49   |
| 40 05 19 00-1691 | EA | 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 12,438.07 | 903.41   |
| 40 05 19 00-1692 | EA | 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 13,558.14 | 947.72   |
| 40 05 19 00-1693 | EA | 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 14,469.81 | 1,070.80 |
| 40 05 19 00-1694 | EA | 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 16,696.26 | 829.56   |
| 40 05 19 00-1695 | EA | 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 14,094.87 | 871.41   |
| 40 05 19 00-1696 | EA | 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 18,964.33 | 915.72   |
| 40 05 19 00-1697 | EA | 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 18,668.17 | 984.65   |
| 40 05 19 00-1698 | EA | 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 16,308.02 | 1,028.95 |
| 40 05 19 00-1699 | EA | 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 19,211.54 | 1,152.04 |
| 40 05 19 00-1700 | EA | 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 27,096.05 | 1,218.50 |
| 40 05 19 00-1701 | EA | 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 25,935.02 | 1,188.96 |
| 40 05 19 00-1702 | EA | 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 28,206.80 | 1,312.04 |
| 40 05 19 00-1703 | EA | 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 29,035.84 | 1,378.50 |
| 40 05 19 00-1704 | EA | 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow | 37,105.81 | 1,459.74 |

**40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows** (40 05 19 00-0001)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-1706 | EA | 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow  | 550.17    | 162.47   |
| 40 05 19 00-1707 | EA | 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow  | 845.22    | 207.76   |
| 40 05 19 00-1708 | EA | 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow  | 1,235.32  | 235.33   |
| 40 05 19 00-1709 | EA | 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 1,753.56  | 298.34   |
| 40 05 19 00-1710 | EA | 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 2,469.39  | 330.84   |
| 40 05 19 00-1711 | EA | 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 2,876.83  | 359.39   |
| 40 05 19 00-1712 | EA | 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 3,730.40  | 443.09   |
| 40 05 19 00-1713 | EA | 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 4,619.93  | 531.71   |
| 40 05 19 00-1714 | EA | 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 6,294.99  | 669.56   |
| 40 05 19 00-1715 | EA | 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 9,230.22  | 758.17   |
| 40 05 19 00-1716 | EA | 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 16,221.63 | 1,004.34 |
| 40 05 19 00-1717 | EA | 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 24,662.85 | 1,137.26 |
| 40 05 19 00-1718 | EA | 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow | 38,206.07 | 1,299.73 |

**40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base** (40 05 19 00-0001)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-1720 | EA | 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base  | 580.25    | 162.47   |
| 40 05 19 00-1721 | EA | 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base  | 786.63    | 207.76   |
| 40 05 19 00-1722 | EA | 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base  | 1,276.49  | 235.33   |
| 40 05 19 00-1723 | EA | 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 1,723.48  | 298.34   |
| 40 05 19 00-1724 | EA | 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 2,309.47  | 330.84   |
| 40 05 19 00-1725 | EA | 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 2,724.83  | 359.39   |
| 40 05 19 00-1726 | EA | 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 3,366.23  | 443.09   |
| 40 05 19 00-1727 | EA | 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 4,227.26  | 531.71   |
| 40 05 19 00-1728 | EA | 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 5,576.14  | 669.56   |
| 40 05 19 00-1729 | EA | 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 7,862.20  | 758.17   |
| 40 05 19 00-1730 | EA | 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 12,869.66 | 1,004.34 |
| 40 05 19 00-1731 | EA | 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 18,378.49 | 1,137.26 |
| 40 05 19 00-1732 | EA | 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 34,070.33 | 1,299.73 |
| 40 05 19 00-1733 | EA | 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base | 36,753.59 | 1,595.12 |

**40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees** (40 05 19 00-0001)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-1735 | EA | 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee  | 791.19    | 260.93   |
| 40 05 19 00-1736 | EA | 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee  | 980.36    | 321.00   |
| 40 05 19 00-1737 | EA | 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee  | 1,367.98  | 358.41   |
| 40 05 19 00-1738 | EA | 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 1,959.68  | 465.74   |
| 40 05 19 00-1739 | EA | 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 2,593.85  | 508.08   |
| 40 05 19 00-1740 | EA | 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 3,461.13  | 546.48   |
| 40 05 19 00-1741 | EA | 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 3,927.62  | 689.25   |
| 40 05 19 00-1742 | EA | 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 4,784.57  | 787.72   |
| 40 05 19 00-1743 | EA | 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 6,035.21  | 994.49   |
| 40 05 19 00-1744 | EA | 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 8,855.07  | 1,097.88 |
| 40 05 19 00-1745 | EA | 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 15,038.80 | 1,516.36 |
| 40 05 19 00-1746 | EA | 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee | 21,636.67 | 1,737.90 |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1747 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....   | 44,605.07                 | 2,008.67                |
| <b>40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees</b><br><small>(40 05 19 00-0001)</small> |                           |                         |
| 40 05 19 00-1749 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                              | 987.86                    | 291.46                  |
| 40 05 19 00-1750 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                              | 1,216.90                  | 297.36                  |
| 40 05 19 00-1751 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                              | 1,219.75                  | 334.78                  |
| 40 05 19 00-1752 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 1,598.73                  | 328.87                  |
| 40 05 19 00-1753 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 1,582.58                  | 366.29                  |
| 40 05 19 00-1754 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 1,669.05                  | 389.92                  |
| 40 05 19 00-1755 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 2,019.93                  | 345.61                  |
| 40 05 19 00-1756 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 2,018.04                  | 383.02                  |
| 40 05 19 00-1757 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 2,131.43                  | 406.65                  |
| 40 05 19 00-1758 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 2,539.22                  | 482.47                  |
| 40 05 19 00-1759 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 2,930.66                  | 359.39                  |
| 40 05 19 00-1760 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 2,871.77                  | 396.81                  |
| 40 05 19 00-1761 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 2,999.40                  | 420.44                  |
| 40 05 19 00-1762 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 3,172.87                  | 496.26                  |
| 40 05 19 00-1763 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 3,364.41                  | 522.35                  |
| 40 05 19 00-1764 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 3,551.42                  | 401.24                  |
| 40 05 19 00-1765 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 3,278.76                  | 438.66                  |
| 40 05 19 00-1766 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 3,229.07                  | 462.29                  |
| 40 05 19 00-1767 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 3,788.87                  | 538.11                  |
| 40 05 19 00-1768 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 3,681.15                  | 564.20                  |
| 40 05 19 00-1769 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 4,100.87                  | 588.33                  |
| 40 05 19 00-1770 EA 18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 4,338.98                  | 445.55                  |
| 40 05 19 00-1771 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 3,284.15                  | 482.97                  |
| 40 05 19 00-1772 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 3,948.55                  | 506.60                  |
| 40 05 19 00-1773 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 3,970.00                  | 582.41                  |
| 40 05 19 00-1774 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 4,318.29                  | 608.51                  |
| 40 05 19 00-1775 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 4,711.09                  | 632.63                  |
| 40 05 19 00-1776 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 5,046.10                  | 733.56                  |
| 40 05 19 00-1777 EA 20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 9,544.99                  | 514.48                  |
| 40 05 19 00-1778 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 4,813.60                  | 551.89                  |
| 40 05 19 00-1779 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 4,914.32                  | 575.53                  |
| 40 05 19 00-1780 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 5,127.37                  | 651.35                  |
| 40 05 19 00-1781 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 5,328.41                  | 677.44                  |
| 40 05 19 00-1782 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 5,398.21                  | 701.56                  |
| 40 05 19 00-1783 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 6,496.39                  | 802.49                  |
| 40 05 19 00-1784 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 6,643.36                  | 856.64                  |
| 40 05 19 00-1785 EA 24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 6,355.16                  | 558.78                  |
| 40 05 19 00-1786 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 5,499.82                  | 596.20                  |
| 40 05 19 00-1787 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 5,749.40                  | 619.83                  |
| 40 05 19 00-1788 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 5,983.02                  | 695.65                  |
| 40 05 19 00-1789 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 6,700.23                  | 721.74                  |
| 40 05 19 00-1790 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 6,866.61                  | 745.87                  |
| 40 05 19 00-1791 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 7,105.03                  | 846.79                  |
| 40 05 19 00-1792 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 9,316.71                  | 900.95                  |
| 40 05 19 00-1793 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 9,639.92                  | 962.74                  |
| 40 05 19 00-1794 EA 30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 11,251.82                 | 719.28                  |
| 40 05 19 00-1795 EA 30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 11,320.89                 | 742.91                  |
| 40 05 19 00-1796 EA 30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 11,646.34                 | 818.73                  |
| 40 05 19 00-1797 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 11,685.88                 | 844.82                  |
| 40 05 19 00-1798 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 11,722.43                 | 868.95                  |
| 40 05 19 00-1799 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 11,979.84                 | 969.88                  |
| 40 05 19 00-1800 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 12,131.57                 | 1,024.03                |
| 40 05 19 00-1801 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 12,513.03                 | 1,161.88                |
| 40 05 19 00-1802 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 15,990.93                 | 1,220.96                |
| 40 05 19 00-1803 EA 36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 15,525.01                 | 1,029.44                |
| 40 05 19 00-1804 EA 36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 16,603.11                 | 1,048.15                |
| 40 05 19 00-1805 EA 36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 16,719.26                 | 1,101.82                |
| 40 05 19 00-1806 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 16,855.84                 | 1,122.99                |
| 40 05 19 00-1807 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 16,919.76                 | 1,142.19                |
| 40 05 19 00-1808 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 17,097.59                 | 1,213.57                |
| 40 05 19 00-1809 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 17,207.02                 | 1,262.80                |
| 40 05 19 00-1810 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 17,503.01                 | 1,366.20                |
| 40 05 19 00-1811 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 17,896.42                 | 1,417.89                |
| 40 05 19 00-1812 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 23,413.20                 | 1,627.12                |
| 40 05 19 00-1813 EA 42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                             | 27,672.77                 | 890.61                  |
| 40 05 19 00-1814 EA 42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 25,038.93                 | 966.43                  |
| 40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 25,078.47                 | 992.52                  |
| 40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 25,151.43                 | 1,016.65                |
| 40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 25,378.77                 | 1,117.57                |
| 40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 25,647.67                 | 1,171.72                |
| 40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 25,856.53                 | 1,309.58                |
| 40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 26,243.71                 | 1,368.66                |
| 40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 33,244.80                 | 1,664.05                |
| 40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 42,679.10                 | 1,819.13                |
| 40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 33,886.87                 | 1,152.52                |
| 40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 33,923.42                 | 1,176.65                |
| 40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....                            | 34,187.18                 | 1,277.58                |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....           | 34,269.24                 | 1,331.74                |
| 40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....           | 34,625.35                 | 1,469.58                |
| 40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....           | 34,976.12                 | 1,528.66                |
| 40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....           | 35,946.20                 | 1,824.06                |
| <b>40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base</b> (40 05 19 00-0001) |                           |                         |
| 40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base .....                | 851.36                    | 260.93                  |
| 40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base .....                | 1,152.94                  | 321.00                  |
| 40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base .....                | 1,665.65                  | 358.41                  |
| 40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 2,521.77                  | 465.74                  |
| 40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 3,372.86                  | 508.08                  |
| 40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 3,765.13                  | 546.48                  |
| 40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 4,674.96                  | 689.25                  |
| 40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 5,672.84                  | 787.72                  |
| 40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 7,567.90                  | 994.49                  |
| 40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 10,853.27                 | 1,097.88                |
| 40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 18,150.10                 | 1,516.36                |
| 40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....                | 25,815.15                 | 1,737.90                |
| <b>40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes</b> (40 05 19 00-0001)           |                           |                         |
| 40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....                           | 699.36                    | 260.93                  |
| 40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....                           | 972.44                    | 321.00                  |
| 40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....                           | 1,391.73                  | 358.41                  |
| 40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....                          | 1,828.26                  | 465.74                  |
| 40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....                          | 2,585.93                  | 508.08                  |
| 40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....                          | 3,340.79                  | 546.48                  |
| <b>40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses</b> (40 05 19 00-0001)        |                           |                         |
| 40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                    | 960.96                    | 359.39                  |
| 40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                    | 1,256.63                  | 389.42                  |
| 40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                    | 1,334.01                  | 434.23                  |
| 40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                    | 1,538.67                  | 395.82                  |
| 40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                    | 1,679.48                  | 448.01                  |
| 40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                    | 1,741.30                  | 481.49                  |
| 40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 1,979.09                  | 427.34                  |
| 40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 2,180.07                  | 479.52                  |
| 40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 2,382.80                  | 513.00                  |
| 40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 2,957.48                  | 633.13                  |
| 40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 2,548.38                  | 443.58                  |
| 40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 2,687.62                  | 495.77                  |
| 40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 2,891.93                  | 529.25                  |
| 40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 3,496.69                  | 649.37                  |
| 40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 3,302.55                  | 685.31                  |
| 40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 3,193.76                  | 510.05                  |
| 40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 3,396.48                  | 543.52                  |
| 40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 3,790.66                  | 663.65                  |
| 40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 4,119.03                  | 699.59                  |
| 40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 4,320.92                  | 733.56                  |
| 40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 3,803.42                  | 551.89                  |
| 40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 4,034.65                  | 585.37                  |
| 40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 4,428.82                  | 705.50                  |
| 40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 4,787.29                  | 741.44                  |
| 40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 6,642.20                  | 775.40                  |
| 40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 5,443.78                  | 935.41                  |
| 40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 3,962.38                  | 596.20                  |
| 40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 4,192.03                  | 629.69                  |
| 40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 4,526.04                  | 749.81                  |
| 40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 4,882.93                  | 785.75                  |
| 40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 5,599.41                  | 819.72                  |
| 40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 6,115.76                  | 979.72                  |
| 40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 6,394.81                  | 1,043.73                |
| 40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 5,148.26                  | 665.13                  |
| 40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 5,393.74                  | 698.61                  |
| 40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 5,705.58                  | 818.73                  |
| 40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 6,086.20                  | 854.67                  |
| 40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 6,202.60                  | 888.64                  |
| 40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 7,553.38                  | 1,048.64                |
| 40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 7,845.10                  | 1,112.65                |
| 40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 8,615.99                  | 1,319.42                |
| 40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 6,779.75                  | 709.44                  |
| 40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                   | 6,958.73                  | 742.91                  |
| 40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 7,368.74                  | 863.04                  |
| 40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 7,619.54                  | 898.98                  |
| 40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 7,769.17                  | 932.95                  |
| 40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 8,239.61                  | 1,092.96                |
| 40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....                  | 10,651.45                 | 1,156.95                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1899 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 11,270.68                 | 1,287.68                |
| 40 05 19 00-1900 EA 24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 12,411.41                 | 1,437.58                |
| 40 05 19 00-1901 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 12,478.51                 | 1,022.07                |
| 40 05 19 00-1902 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 12,564.82                 | 1,056.03                |
| 40 05 19 00-1903 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 13,051.09                 | 1,216.04                |
| 40 05 19 00-1904 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 13,217.72                 | 1,280.04                |
| 40 05 19 00-1905 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 13,915.78                 | 1,486.81                |
| 40 05 19 00-1906 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 18,043.07                 | 1,560.66                |
| 40 05 19 00-1907 EA 30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 20,529.82                 | 2,028.37                |
| 40 05 19 00-1908 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 17,610.46                 | 1,300.22                |
| 40 05 19 00-1909 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 17,654.48                 | 1,329.27                |
| 40 05 19 00-1910 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 18,064.32                 | 1,459.74                |
| 40 05 19 00-1911 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 18,221.91                 | 1,518.81                |
| 40 05 19 00-1912 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 18,798.09                 | 1,691.13                |
| 40 05 19 00-1913 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 19,457.72                 | 1,757.59                |
| 40 05 19 00-1914 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 26,283.76                 | 2,139.14                |
| 40 05 19 00-1915 EA 36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 28,819.99                 | 2,338.53                |
| 40 05 19 00-1916 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 25,905.93                 | 1,169.75                |
| 40 05 19 00-1917 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 25,957.40                 | 1,203.73                |
| 40 05 19 00-1918 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 26,423.09                 | 1,363.73                |
| 40 05 19 00-1919 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 26,556.47                 | 1,427.73                |
| 40 05 19 00-1920 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 27,205.45                 | 1,634.51                |
| 40 05 19 00-1921 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 27,876.26                 | 1,708.36                |
| 40 05 19 00-1922 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 35,882.62                 | 2,176.06                |
| 40 05 19 00-1923 EA 42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 49,510.92                 | 2,419.77                |
| 40 05 19 00-1924 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 36,815.57                 | 2,717.62                |
| 40 05 19 00-1925 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 34,726.23                 | 1,363.73                |
| 40 05 19 00-1926 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 35,193.50                 | 1,523.74                |
| 40 05 19 00-1927 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 35,326.89                 | 1,587.74                |
| 40 05 19 00-1928 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 35,937.85                 | 1,794.51                |
| 40 05 19 00-1929 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 36,608.67                 | 1,868.36                |
| 40 05 19 00-1930 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....  | 38,322.75                 | 2,336.07                |
| <br>   |                           |                         |
| <b>40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)</b> |                           |                         |
| 40 05 19 00-1932 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                             | 511.64                    | 185.12                  |
| 40 05 19 00-1933 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                             | 648.12                    | 198.90                  |
| 40 05 19 00-1934 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                             | 714.09                    | 221.55                  |
| 40 05 19 00-1935 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 866.86                    | 230.41                  |
| 40 05 19 00-1936 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 877.43                    | 253.05                  |
| 40 05 19 00-1937 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,021.81                  | 266.84                  |
| 40 05 19 00-1938 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,101.23                  | 247.15                  |
| 40 05 19 00-1939 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,140.29                  | 269.80                  |
| 40 05 19 00-1940 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,248.27                  | 283.58                  |
| 40 05 19 00-1941 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 1,403.67                  | 315.09                  |
| 40 05 19 00-1942 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,707.14                  | 269.80                  |
| 40 05 19 00-1943 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,368.60                  | 283.58                  |
| 40 05 19 00-1944 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,511.40                  | 297.36                  |
| 40 05 19 00-1945 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 1,662.06                  | 328.87                  |
| 40 05 19 00-1946 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 1,619.34                  | 345.61                  |
| 40 05 19 00-1947 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 2,018.36                  | 302.77                  |
| 40 05 19 00-1948 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,645.76                  | 325.43                  |
| 40 05 19 00-1949 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 1,558.97                  | 339.21                  |
| 40 05 19 00-1950 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 1,736.55                  | 370.72                  |
| 40 05 19 00-1951 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,142.75                  | 386.96                  |
| 40 05 19 00-1952 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,303.73                  | 401.23                  |
| 40 05 19 00-1953 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 2,552.07                  | 369.74                  |
| 40 05 19 00-1954 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 2,034.61                  | 383.52                  |
| 40 05 19 00-1955 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,234.36                  | 415.03                  |
| 40 05 19 00-1956 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,222.56                  | 431.27                  |
| 40 05 19 00-1957 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,551.36                  | 445.55                  |
| 40 05 19 00-1958 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,553.01                  | 487.40                  |
| 40 05 19 00-1959 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 2,620.08                  | 438.66                  |
| 40 05 19 00-1960 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 2,544.38                  | 452.44                  |
| 40 05 19 00-1961 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,755.21                  | 483.96                  |
| 40 05 19 00-1962 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,689.58                  | 500.20                  |
| 40 05 19 00-1963 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 3,095.97                  | 514.48                  |
| 40 05 19 00-1964 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 2,915.54                  | 556.32                  |
| 40 05 19 00-1965 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 3,584.35                  | 600.63                  |
| 40 05 19 00-1966 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                            | 3,425.36                  | 496.75                  |
| 40 05 19 00-1967 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 3,864.20                  | 528.26                  |
| 40 05 19 00-1968 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 4,153.24                  | 544.51                  |
| 40 05 19 00-1969 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 4,263.54                  | 558.78                  |
| 40 05 19 00-1970 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 3,787.02                  | 600.63                  |
| 40 05 19 00-1971 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 4,561.91                  | 644.94                  |
| 40 05 19 00-1972 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 4,812.35                  | 637.81                  |
| 40 05 19 00-1973 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 6,543.29                  | 723.71                  |
| 40 05 19 00-1974 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 6,821.02                  | 768.03                  |
| 40 05 19 00-1975 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 7,345.04                  | 836.95                  |
| 40 05 19 00-1976 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....                           | 8,110.44                  | 881.25                  |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 8,914.54                  | 790.17                  |
| 40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 9,364.84                  | 834.49                  |
| 40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 9,958.53                  | 903.41                  |
| 40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 10,830.01                 | 947.72                  |
| 40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 12,482.70                 | 1,070.80                |
| 40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 15,115.75                 | 1,028.95                |
| 40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 17,088.26                 | 1,152.04                |
| 40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 19,312.25                 | 1,218.50                |
| 40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 19,193.08                 | 1,188.96                |
| 40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 21,539.27                 | 1,312.04                |
| 40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 24,060.93                 | 1,378.50                |
| 40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 26,940.64                 | 1,459.74                |

**40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)**

|  |           |          |
|--|-----------|----------|
| 40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....   | 554.39    | 185.12   |
| 40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....   | 697.20    | 198.90   |
| 40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....   | 791.68    | 221.55   |
| 40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 866.86    | 230.41   |
| 40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 929.68    | 253.05   |
| 40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,070.89  | 266.84   |
| 40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,101.23  | 247.15   |
| 40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,197.29  | 269.80   |
| 40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,308.43  | 283.58   |
| 40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 1,508.17  | 315.09   |
| 40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,368.60  | 283.58   |
| 40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,481.32  | 297.36   |
| 40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 1,650.98  | 328.87   |
| 40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 1,886.92  | 345.61   |
| 40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,645.76  | 325.43   |
| 40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 1,785.39  | 339.21   |
| 40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 1,985.14  | 370.72   |
| 40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,191.84  | 386.96   |
| 40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,303.73  | 401.24   |
| 40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 2,034.61  | 383.52   |
| 40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,234.36  | 415.03   |
| 40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,441.06  | 431.27   |
| 40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,551.36  | 445.55   |
| 40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,796.85  | 487.40   |
| 40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 2,958.92  | 438.66   |
| 40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 2,707.47  | 452.44   |
| 40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 2,755.21  | 483.96   |
| 40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 3,007.83  | 500.20   |
| 40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 3,095.97  | 514.48   |
| 40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 3,384.21  | 556.32   |
| 40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 3,582.76  | 600.63   |
| 40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....  | 3,751.53  | 496.75   |
| 40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 3,864.20  | 528.26   |
| 40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 3,953.74  | 544.51   |
| 40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 4,040.29  | 558.78   |
| 40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 4,333.27  | 600.63   |
| 40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 4,561.91  | 644.94   |
| 40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 4,812.35  | 637.81   |
| 40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 7,808.33  | 681.86   |
| 40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 7,626.31  | 723.71   |
| 40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 6,855.85  | 768.03   |
| 40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 7,345.04  | 836.95   |
| 40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 8,110.44  | 881.25   |
| 40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 8,984.20  | 790.17   |
| 40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 9,364.84  | 834.49   |
| 40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 9,923.69  | 903.41   |
| 40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 10,792.01 | 947.72   |
| 40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 12,447.86 | 1,070.80 |
| 40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 15,115.75 | 1,028.95 |
| 40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 12,813.19 | 1,152.04 |
| 40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 19,312.25 | 1,218.50 |
| 40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 21,539.27 | 1,312.04 |
| 40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 24,060.93 | 1,378.50 |
| 40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer..... | 26,940.64 | 1,459.74 |

**40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)**

|  |          |        |
|--|----------|--------|
| 40 05 19 00-2045 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....  | 196.72   | 64.00  |
| 40 05 19 00-2046 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....  | 295.22   | 94.52  |
| 40 05 19 00-2047 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....  | 424.99   | 112.25 |
| 40 05 19 00-2048 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange ..... | 581.59   | 130.96 |
| 40 05 19 00-2049 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange ..... | 748.91   | 153.60 |
| 40 05 19 00-2050 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange ..... | 986.26   | 172.32 |
| 40 05 19 00-2051 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange ..... | 1,177.14 | 196.93 |



|                         | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|-------------------------|-------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2052        | EA    |     |     | 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 1,595.75               | 275.70               |
| 40 05 19 00-2053        | EA    |     |     | 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 2,116.60               | 344.63               |
| 40 05 19 00-2054        | EA    |     |     | 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 3,005.92               | 418.47               |
| 40 05 19 00-2055        | EA    |     |     | 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 4,225.04               | 487.40               |
| 40 05 19 00-2056        | EA    |     |     | 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 7,504.36               | 536.63               |
| 40 05 19 00-2057        | EA    |     |     | 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 10,559.96              | 590.78               |
| 40 05 19 00-2058        | EA    |     |     | 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....   | 13,941.49              | 664.63               |
| <b>40 05 19 00-2059</b> |       |     |     | <b>Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping</b> <small>(40 05 19)</small>  |                        |                      |
|                         |       |     |     | Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4062 for bolts, 40 05 19 00-4077 for gaskets. |                        |                      |
| <b>40 05 19 00-2060</b> |       |     |     | <b>Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2059)</small>  |                        |                      |
| <b>40 05 19 00-2061</b> |       |     |     | <b>4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>   |                        |                      |
| 40 05 19 00-2062        | EA    |     |     | 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,109.11               | 281.61               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -75.07                 |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 107.48                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 162.42                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 216.68                 |                      |
| 40 05 19 00-2063        | EA    |     |     | 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,213.70               | 286.53               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -85.75                 |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 122.14                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 184.26                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 245.60                 |                      |
| 40 05 19 00-2064        | EA    |     |     | 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,318.28               | 291.46               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -96.43                 |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 136.80                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 206.10                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 274.52                 |                      |
| 40 05 19 00-2065        | EA    |     |     | 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,422.86               | 296.38               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -107.12                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 151.46                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 227.94                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 303.44                 |                      |
| 40 05 19 00-2066        | EA    |     |     | 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,527.45               | 301.30               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -117.80                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 166.12                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 249.77                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 332.36                 |                      |
| 40 05 19 00-2067        | EA    |     |     | 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,632.04               | 306.23               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -128.49                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 180.78                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 271.61                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 361.28                 |                      |
| 40 05 19 00-2068        | EA    |     |     | 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,736.61               | 311.14               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -139.17                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 195.43                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 293.45                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 390.20                 |                      |
| 40 05 19 00-2069        | EA    |     |     | 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,841.21               | 316.07               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -149.85                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 210.09                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 315.29                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 419.12                 |                      |
| 40 05 19 00-2070        | EA    |     |     | 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 1,945.78               | 321.00               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -160.54                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 224.75                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 337.13                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 448.04                 |                      |
| 40 05 19 00-2071        | EA    |     |     | 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 2,050.38               | 325.92               |
|                         |       |     |     | <i>For Class 52 Rating, Deduct</i>   | -171.22                |                      |
|                         |       |     |     | <i>For Class 54 Rating, Add</i>  | 239.41                 |                      |
|                         |       |     |     | <i>For Class 55 Rating, Add</i>  | 358.96                 |                      |
|                         |       |     |     | <i>For Class 56 Rating, Add</i>  | 476.96                 |                      |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2072 | EA  |     | 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,154.95               | 330.84               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -181.90                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 254.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 380.80                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 505.88                 |                      |
| 40 05 19 00-2073 | EA  |     | 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,259.54               | 335.76               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -192.59                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 268.73                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 402.64                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 534.80                 |                      |
| 40 05 19 00-2074 | EA  |     | 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,364.13               | 340.69               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -203.27                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 283.38                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 424.48                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 563.72                 |                      |
| 40 05 19 00-2075 | EA  |     | 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,468.71               | 345.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -213.96                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 298.04                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 446.32                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 592.64                 |                      |
| 40 05 19 00-2076 | EA  |     | 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,573.29               | 350.53               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -224.64                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 312.70                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 468.15                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 621.56                 |                      |
| 40 05 19 00-2077 | EA  |     | 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,677.87               | 355.46               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -235.32                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 327.36                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 489.99                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 650.48                 |                      |
| 40 05 19 00-2078 | EA  |     | 4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,782.46               | 360.38               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -246.01                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 342.02                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 511.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 679.40                 |                      |
| 40 05 19 00-2079 | EA  |     | 4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,887.05               | 365.30               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -256.69                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 356.68                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 533.67                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 708.33                 |                      |
| 40 05 19 00-2080 | EA  |     | 4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,991.63               | 370.22               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -267.37                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 371.33                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 555.50                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 737.24                 |                      |
| 40 05 19 00-2081 | EA  |     | 4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,096.21               | 375.15               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -278.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 385.99                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 577.34                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 766.16                 |                      |
| 40 05 19 00-2082 | EA  |     | 4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,200.80               | 380.08               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -288.74                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 400.65                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 599.18                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 795.09                 |                      |
| 40 05 19 00-2083 | EA  |     | 4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,305.38               | 384.99               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -299.43                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 415.31                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 621.02                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 824.00                 |                      |
| 40 05 19 00-2084 | EA  |     | 4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,409.96               | 389.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -310.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 429.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 642.86                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 852.93                 |                      |
| 40 05 19 00-2085 | EA  |     | 4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,514.55               | 394.84               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -320.79                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 444.62                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 664.69                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 881.85                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2086 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,619.13                  | 399.77                  |
| For Class 52 Rating, Deduct  | -331.48                   |                         |
| For Class 54 Rating, Add   | 459.28                    |                         |
| For Class 55 Rating, Add   | 686.53                    |                         |
| For Class 56 Rating, Add   | 910.77                    |                         |
| 40 05 19 00-2087 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,723.72                  | 404.69                  |
| For Class 52 Rating, Deduct  | -342.16                   |                         |
| For Class 54 Rating, Add   | 473.94                    |                         |
| For Class 55 Rating, Add   | 708.37                    |                         |
| For Class 56 Rating, Add   | 939.69                    |                         |
| 40 05 19 00-2088 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,828.30                  | 409.61                  |
| For Class 52 Rating, Deduct  | -352.84                   |                         |
| For Class 54 Rating, Add   | 488.60                    |                         |
| For Class 55 Rating, Add   | 730.21                    |                         |
| For Class 56 Rating, Add   | 968.61                    |                         |
| 40 05 19 00-2089 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,932.88                  | 414.54                  |
| For Class 52 Rating, Deduct  | -363.53                   |                         |
| For Class 54 Rating, Add   | 503.26                    |                         |
| For Class 55 Rating, Add   | 752.04                    |                         |
| For Class 56 Rating, Add   | 997.53                    |                         |
| 40 05 19 00-2090 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,037.48                  | 419.45                  |
| For Class 52 Rating, Deduct  | -374.21                   |                         |
| For Class 54 Rating, Add   | 517.92                    |                         |
| For Class 55 Rating, Add   | 773.88                    |                         |
| For Class 56 Rating, Add   | 1,026.45                  |                         |
| 40 05 19 00-2091 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,142.05                  | 424.38                  |
| For Class 52 Rating, Deduct  | -384.90                   |                         |
| For Class 54 Rating, Add   | 532.57                    |                         |
| For Class 55 Rating, Add   | 795.72                    |                         |
| For Class 56 Rating, Add   | 1,055.37                  |                         |
| 40 05 19 00-2092 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,246.64                  | 429.31                  |
| For Class 52 Rating, Deduct  | -395.58                   |                         |
| For Class 54 Rating, Add   | 547.23                    |                         |
| For Class 55 Rating, Add   | 817.56                    |                         |
| For Class 56 Rating, Add   | 1,084.29                  |                         |
| 40 05 19 00-2093 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,351.22                  | 434.23                  |
| For Class 52 Rating, Deduct  | -406.26                   |                         |
| For Class 54 Rating, Add   | 561.89                    |                         |
| For Class 55 Rating, Add   | 839.40                    |                         |
| For Class 56 Rating, Add   | 1,113.21                  |                         |
| 40 05 19 00-2094 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,455.81                  | 439.15                  |
| For Class 52 Rating, Deduct  | -416.95                   |                         |
| For Class 54 Rating, Add   | 576.55                    |                         |
| For Class 55 Rating, Add   | 861.24                    |                         |
| For Class 56 Rating, Add   | 1,142.13                  |                         |
| 40 05 19 00-2095 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,560.39                  | 444.07                  |
| For Class 52 Rating, Deduct  | -427.63                   |                         |
| For Class 54 Rating, Add   | 591.21                    |                         |
| For Class 55 Rating, Add   | 883.07                    |                         |
| For Class 56 Rating, Add   | 1,171.05                  |                         |
| 40 05 19 00-2096 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,664.98                  | 449.00                  |
| For Class 52 Rating, Deduct  | -438.31                   |                         |
| For Class 54 Rating, Add   | 605.87                    |                         |
| For Class 55 Rating, Add   | 904.91                    |                         |
| For Class 56 Rating, Add   | 1,199.97                  |                         |
| 40 05 19 00-2097 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,769.56                  | 453.93                  |
| For Class 52 Rating, Deduct  | -449.00                   |                         |
| For Class 54 Rating, Add   | 620.52                    |                         |
| For Class 55 Rating, Add   | 926.75                    |                         |
| For Class 56 Rating, Add   | 1,228.89                  |                         |
| 40 05 19 00-2098 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,874.15                  | 458.84                  |
| For Class 52 Rating, Deduct  | -459.68                   |                         |
| For Class 54 Rating, Add   | 635.18                    |                         |
| For Class 55 Rating, Add   | 948.59                    |                         |
| For Class 56 Rating, Add   | 1,257.81                  |                         |
| 40 05 19 00-2099 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,978.73                  | 463.77                  |
| For Class 52 Rating, Deduct  | -470.37                   |                         |
| For Class 54 Rating, Add   | 649.84                    |                         |
| For Class 55 Rating, Add   | 970.42                    |                         |
| For Class 56 Rating, Add   | 1,286.73                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2100 | EA  |     | 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                         | 5,083.32               | 468.69               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -481.05                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 664.50                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 992.26                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,315.65               |                      |
| 40 05 19 00-2101 |     |     | <b>6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                        |                      |
| 40 05 19 00-2102 | EA  |     | 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 1,388.20               | 354.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -93.62                 |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 134.11                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 202.69                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 270.42                 |                      |
| 40 05 19 00-2103 | EA  |     | 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 1,508.12               | 359.39               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -105.99                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 151.07                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 227.95                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 303.86                 |                      |
| 40 05 19 00-2104 | EA  |     | 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 1,628.04               | 364.32               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -118.36                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 168.03                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 253.20                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 337.30                 |                      |
| 40 05 19 00-2105 | EA  |     | 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 1,747.95               | 369.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -130.74                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 184.99                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 278.46                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 370.75                 |                      |
| 40 05 19 00-2106 | EA  |     | 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 1,867.88               | 374.16               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -143.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 201.95                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 303.72                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 404.19                 |                      |
| 40 05 19 00-2107 | EA  |     | 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 1,987.80               | 379.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -155.48                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 218.91                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 328.98                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 437.64                 |                      |
| 40 05 19 00-2108 | EA  |     | 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 2,107.71               | 384.01               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -167.85                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 235.86                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 354.24                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 471.08                 |                      |
| 40 05 19 00-2109 | EA  |     | 6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 2,227.64               | 388.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -180.22                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 252.82                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 379.49                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 504.53                 |                      |
| 40 05 19 00-2110 | EA  |     | 6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 2,347.56               | 393.85               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -192.59                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 269.78                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 404.75                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 537.97                 |                      |
| 40 05 19 00-2111 | EA  |     | 6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 2,467.49               | 398.78               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -204.96                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 286.74                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 430.01                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 571.42                 |                      |
| 40 05 19 00-2112 | EA  |     | 6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 2,587.40               | 403.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -217.33                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 303.70                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 455.27                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 604.86                 |                      |
| 40 05 19 00-2113 | EA  |     | 6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 2,707.32               | 408.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -229.70                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 320.66                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 480.53                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 638.30                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2114 EA 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,827.25                  | 413.55                  |
| <i>For Class 52 Rating, Deduct</i>   | -242.07                   |                         |
| <i>For Class 54 Rating, Add</i>  | 337.62                    |                         |
| <i>For Class 55 Rating, Add</i>  | 505.78                    |                         |
| <i>For Class 56 Rating, Add</i>  | 671.75                    |                         |
| 40 05 19 00-2115 EA 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 2,947.16                  | 418.47                  |
| <i>For Class 52 Rating, Deduct</i>   | -254.44                   |                         |
| <i>For Class 54 Rating, Add</i>  | 354.58                    |                         |
| <i>For Class 55 Rating, Add</i>  | 531.04                    |                         |
| <i>For Class 56 Rating, Add</i>  | 705.19                    |                         |
| 40 05 19 00-2116 EA 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 3,067.08                  | 423.40                  |
| <i>For Class 52 Rating, Deduct</i>   | -266.81                   |                         |
| <i>For Class 54 Rating, Add</i>  | 371.53                    |                         |
| <i>For Class 55 Rating, Add</i>  | 556.30                    |                         |
| <i>For Class 56 Rating, Add</i>  | 738.64                    |                         |
| 40 05 19 00-2117 EA 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 3,187.00                  | 428.32                  |
| <i>For Class 52 Rating, Deduct</i>   | -279.18                   |                         |
| <i>For Class 54 Rating, Add</i>  | 388.49                    |                         |
| <i>For Class 55 Rating, Add</i>  | 581.56                    |                         |
| <i>For Class 56 Rating, Add</i>  | 772.08                    |                         |
| 40 05 19 00-2118 EA 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 3,306.92                  | 433.24                  |
| <i>For Class 52 Rating, Deduct</i>   | -291.55                   |                         |
| <i>For Class 54 Rating, Add</i>  | 405.45                    |                         |
| <i>For Class 55 Rating, Add</i>  | 606.81                    |                         |
| <i>For Class 56 Rating, Add</i>  | 805.53                    |                         |
| 40 05 19 00-2119 EA 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 3,426.84                  | 438.17                  |
| <i>For Class 52 Rating, Deduct</i>   | -303.92                   |                         |
| <i>For Class 54 Rating, Add</i>  | 422.41                    |                         |
| <i>For Class 55 Rating, Add</i>  | 632.07                    |                         |
| <i>For Class 56 Rating, Add</i>  | 838.97                    |                         |
| 40 05 19 00-2120 EA 6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,546.76                  | 443.09                  |
| <i>For Class 52 Rating, Deduct</i>   | -316.30                   |                         |
| <i>For Class 54 Rating, Add</i>  | 439.37                    |                         |
| <i>For Class 55 Rating, Add</i>  | 657.33                    |                         |
| <i>For Class 56 Rating, Add</i>  | 872.41                    |                         |
| 40 05 19 00-2121 EA 6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,666.67                  | 448.01                  |
| <i>For Class 52 Rating, Deduct</i>   | -328.67                   |                         |
| <i>For Class 54 Rating, Add</i>  | 456.33                    |                         |
| <i>For Class 55 Rating, Add</i>  | 682.59                    |                         |
| <i>For Class 56 Rating, Add</i>  | 905.86                    |                         |
| 40 05 19 00-2122 EA 6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,786.60                  | 452.94                  |
| <i>For Class 52 Rating, Deduct</i>   | -341.04                   |                         |
| <i>For Class 54 Rating, Add</i>  | 473.28                    |                         |
| <i>For Class 55 Rating, Add</i>  | 707.84                    |                         |
| <i>For Class 56 Rating, Add</i>  | 939.30                    |                         |
| 40 05 19 00-2123 EA 6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,906.52                  | 457.86                  |
| <i>For Class 52 Rating, Deduct</i>   | -353.41                   |                         |
| <i>For Class 54 Rating, Add</i>  | 490.24                    |                         |
| <i>For Class 55 Rating, Add</i>  | 733.10                    |                         |
| <i>For Class 56 Rating, Add</i>  | 972.75                    |                         |
| 40 05 19 00-2124 EA 6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,026.43                  | 462.79                  |
| <i>For Class 52 Rating, Deduct</i>   | -365.78                   |                         |
| <i>For Class 54 Rating, Add</i>  | 507.20                    |                         |
| <i>For Class 55 Rating, Add</i>  | 758.36                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,006.19                  |                         |
| 40 05 19 00-2125 EA 6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,146.36                  | 467.70                  |
| <i>For Class 52 Rating, Deduct</i>   | -378.15                   |                         |
| <i>For Class 54 Rating, Add</i>  | 524.16                    |                         |
| <i>For Class 55 Rating, Add</i>  | 783.62                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,039.64                  |                         |
| 40 05 19 00-2126 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,266.27                  | 472.63                  |
| <i>For Class 52 Rating, Deduct</i>   | -390.52                   |                         |
| <i>For Class 54 Rating, Add</i>  | 541.12                    |                         |
| <i>For Class 55 Rating, Add</i>  | 808.87                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,073.08                  |                         |
| 40 05 19 00-2127 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,386.20                  | 477.56                  |
| <i>For Class 52 Rating, Deduct</i>   | -402.89                   |                         |
| <i>For Class 54 Rating, Add</i>  | 558.08                    |                         |
| <i>For Class 55 Rating, Add</i>  | 834.13                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,106.52                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2128 | EA  |     | 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,506.11               | 482.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -415.26                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 575.04                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 859.39                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,139.97               |                      |
| 40 05 19 00-2129 | EA  |     | 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,626.03               | 487.40               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -427.63                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 591.99                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 884.65                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,173.41               |                      |
| 40 05 19 00-2130 | EA  |     | 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,745.96               | 492.32               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -440.00                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 608.95                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 909.91                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,206.86               |                      |
| 40 05 19 00-2131 | EA  |     | 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,865.88               | 497.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -452.37                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 625.91                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 935.16                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,240.30               |                      |
| 40 05 19 00-2132 | EA  |     | 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,985.80               | 502.17               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -464.74                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 642.87                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 960.42                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,273.75               |                      |
| 40 05 19 00-2133 | EA  |     | 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,105.72               | 507.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -477.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 659.83                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 985.68                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,307.19               |                      |
| 40 05 19 00-2134 | EA  |     | 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,225.64               | 512.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -489.48                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 676.79                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,010.94               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,340.64               |                      |
| 40 05 19 00-2135 | EA  |     | 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,345.56               | 516.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -501.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 693.75                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,036.20               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,374.08               |                      |
| 40 05 19 00-2136 | EA  |     | 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,465.48               | 521.86               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -514.23                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 710.71                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,061.45               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,407.53               |                      |
| 40 05 19 00-2137 | EA  |     | 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,585.40               | 526.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -526.60                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 727.66                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,086.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,440.97               |                      |
| 40 05 19 00-2138 | EA  |     | 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,705.32               | 531.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -538.97                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 744.62                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,111.97               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,474.41               |                      |
| 40 05 19 00-2139 | EA  |     | 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,825.24               | 536.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -551.34                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 761.58                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,137.23               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,507.86               |                      |
| 40 05 19 00-2140 | EA  |     | 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,945.15               | 541.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -563.71                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 778.54                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,162.48               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,541.30               |                      |

40 05 19 00-2141 8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2060)



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2142 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,915.67                  | 452.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -135.23                   |                         |
| <i>For Class 54 Rating, Add</i>   | 192.65                    |                         |
| <i>For Class 55 Rating, Add</i>   | 290.63                    |                         |
| <i>For Class 56 Rating, Add</i>   | 387.38                    |                         |
| 40 05 19 00-2143 EA 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,068.81                  | 457.86                  |
| <i>For Class 52 Rating, Deduct</i>  | -151.26                   |                         |
| <i>For Class 54 Rating, Add</i>   | 214.59                    |                         |
| <i>For Class 55 Rating, Add</i>   | 323.29                    |                         |
| <i>For Class 56 Rating, Add</i>   | 430.62                    |                         |
| 40 05 19 00-2144 EA 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,221.95                  | 462.79                  |
| <i>For Class 52 Rating, Deduct</i>  | -167.28                   |                         |
| <i>For Class 54 Rating, Add</i>   | 236.53                    |                         |
| <i>For Class 55 Rating, Add</i>   | 355.96                    |                         |
| <i>For Class 56 Rating, Add</i>   | 473.87                    |                         |
| 40 05 19 00-2145 EA 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,375.11                  | 467.70                  |
| <i>For Class 52 Rating, Deduct</i>  | -183.31                   |                         |
| <i>For Class 54 Rating, Add</i>   | 258.47                    |                         |
| <i>For Class 55 Rating, Add</i>   | 388.63                    |                         |
| <i>For Class 56 Rating, Add</i>   | 517.12                    |                         |
| 40 05 19 00-2146 EA 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,528.25                  | 472.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -199.34                   |                         |
| <i>For Class 54 Rating, Add</i>   | 280.42                    |                         |
| <i>For Class 55 Rating, Add</i>   | 421.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 560.36                    |                         |
| 40 05 19 00-2147 EA 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,681.40                  | 477.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -215.36                   |                         |
| <i>For Class 54 Rating, Add</i>   | 302.36                    |                         |
| <i>For Class 55 Rating, Add</i>   | 453.96                    |                         |
| <i>For Class 56 Rating, Add</i>   | 603.61                    |                         |
| 40 05 19 00-2148 EA 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,834.54                  | 482.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -231.39                   |                         |
| <i>For Class 54 Rating, Add</i>   | 324.30                    |                         |
| <i>For Class 55 Rating, Add</i>   | 486.63                    |                         |
| <i>For Class 56 Rating, Add</i>   | 646.86                    |                         |
| 40 05 19 00-2149 EA 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,987.69                  | 487.40                  |
| <i>For Class 52 Rating, Deduct</i>  | -247.41                   |                         |
| <i>For Class 54 Rating, Add</i>   | 346.24                    |                         |
| <i>For Class 55 Rating, Add</i>   | 519.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 690.10                    |                         |
| 40 05 19 00-2150 EA 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,140.85                  | 492.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -263.44                   |                         |
| <i>For Class 54 Rating, Add</i>   | 368.19                    |                         |
| <i>For Class 55 Rating, Add</i>   | 551.97                    |                         |
| <i>For Class 56 Rating, Add</i>   | 733.35                    |                         |
| 40 05 19 00-2151 EA 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,293.98                  | 497.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -279.46                   |                         |
| <i>For Class 54 Rating, Add</i>   | 390.13                    |                         |
| <i>For Class 55 Rating, Add</i>   | 584.63                    |                         |
| <i>For Class 56 Rating, Add</i>   | 776.59                    |                         |
| 40 05 19 00-2152 EA 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,447.13                  | 502.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -295.49                   |                         |
| <i>For Class 54 Rating, Add</i>   | 412.07                    |                         |
| <i>For Class 55 Rating, Add</i>   | 617.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 819.84                    |                         |
| 40 05 19 00-2153 EA 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,600.28                  | 507.09                  |
| <i>For Class 52 Rating, Deduct</i>  | -311.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 434.01                    |                         |
| <i>For Class 55 Rating, Add</i>   | 649.97                    |                         |
| <i>For Class 56 Rating, Add</i>   | 863.09                    |                         |
| 40 05 19 00-2154 EA 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,753.43                  | 512.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -327.54                   |                         |
| <i>For Class 54 Rating, Add</i>   | 455.96                    |                         |
| <i>For Class 55 Rating, Add</i>   | 682.63                    |                         |
| <i>For Class 56 Rating, Add</i>   | 906.33                    |                         |
| 40 05 19 00-2155 EA 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,906.57                  | 516.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -343.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 477.90                    |                         |
| <i>For Class 55 Rating, Add</i>   | 715.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 949.58                    |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2156 | EA  |     | 8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 4,059.72               | 521.86               |
|                  |     |     | For Class 52 Rating, Deduct  | -359.59                |                      |
|                  |     |     | For Class 54 Rating, Add   | 499.84                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 747.97                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 992.83                 |                      |
| 40 05 19 00-2157 | EA  |     | 8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 4,212.87               | 526.79               |
|                  |     |     | For Class 52 Rating, Deduct  | -375.62                |                      |
|                  |     |     | For Class 54 Rating, Add   | 521.78                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 780.64                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,036.07               |                      |
| 40 05 19 00-2158 | EA  |     | 8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 4,366.02               | 531.71               |
|                  |     |     | For Class 52 Rating, Deduct  | -391.64                |                      |
|                  |     |     | For Class 54 Rating, Add   | 543.73                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 813.30                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,079.32               |                      |
| 40 05 19 00-2159 | EA  |     | 8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 4,519.16               | 536.63               |
|                  |     |     | For Class 52 Rating, Deduct  | -407.67                |                      |
|                  |     |     | For Class 54 Rating, Add   | 565.67                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 845.97                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,122.56               |                      |
| 40 05 19 00-2160 | EA  |     | 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,672.30               | 541.55               |
|                  |     |     | For Class 52 Rating, Deduct  | -423.69                |                      |
|                  |     |     | For Class 54 Rating, Add   | 587.61                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 878.64                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,165.81               |                      |
| 40 05 19 00-2161 | EA  |     | 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,825.46               | 546.48               |
|                  |     |     | For Class 52 Rating, Deduct  | -439.72                |                      |
|                  |     |     | For Class 54 Rating, Add   | 609.56                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 911.31                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,209.06               |                      |
| 40 05 19 00-2162 | EA  |     | 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,978.60               | 551.40               |
|                  |     |     | For Class 52 Rating, Deduct  | -455.75                |                      |
|                  |     |     | For Class 54 Rating, Add   | 631.50                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 943.97                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,252.31               |                      |
| 40 05 19 00-2163 | EA  |     | 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,131.75               | 556.32               |
|                  |     |     | For Class 52 Rating, Deduct  | -471.77                |                      |
|                  |     |     | For Class 54 Rating, Add   | 653.44                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 976.64                 |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,295.55               |                      |
| 40 05 19 00-2164 | EA  |     | 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,284.90               | 561.25               |
|                  |     |     | For Class 52 Rating, Deduct  | -487.80                |                      |
|                  |     |     | For Class 54 Rating, Add   | 675.38                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,009.31               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,338.80               |                      |
| 40 05 19 00-2165 | EA  |     | 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,438.04               | 566.17               |
|                  |     |     | For Class 52 Rating, Deduct  | -503.82                |                      |
|                  |     |     | For Class 54 Rating, Add   | 697.33                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,041.97               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,382.04               |                      |
| 40 05 19 00-2166 | EA  |     | 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,591.20               | 571.10               |
|                  |     |     | For Class 52 Rating, Deduct  | -519.85                |                      |
|                  |     |     | For Class 54 Rating, Add   | 719.27                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,074.64               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,425.29               |                      |
| 40 05 19 00-2167 | EA  |     | 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,744.33               | 576.01               |
|                  |     |     | For Class 52 Rating, Deduct  | -535.87                |                      |
|                  |     |     | For Class 54 Rating, Add   | 741.21                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,107.31               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,468.54               |                      |
| 40 05 19 00-2168 | EA  |     | 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,897.48               | 580.94               |
|                  |     |     | For Class 52 Rating, Deduct  | -551.90                |                      |
|                  |     |     | For Class 54 Rating, Add   | 763.15                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,139.98               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,511.78               |                      |
| 40 05 19 00-2169 | EA  |     | 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,050.63               | 585.87               |
|                  |     |     | For Class 52 Rating, Deduct  | -567.93                |                      |
|                  |     |     | For Class 54 Rating, Add   | 785.10                 |                      |
|                  |     |     | For Class 55 Rating, Add   | 1,172.64               |                      |
|                  |     |     | For Class 56 Rating, Add   | 1,555.03               |                      |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

40

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2170 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 6,203.78                  | 590.78                  |
| For Class 52 Rating, Deduct  | -583.95                   |                         |
| For Class 54 Rating, Add   | 807.04                    |                         |
| For Class 55 Rating, Add   | 1,205.31                  |                         |
| For Class 56 Rating, Add   | 1,598.28                  |                         |
| 40 05 19 00-2171 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 6,356.92                  | 595.71                  |
| For Class 52 Rating, Deduct  | -599.98                   |                         |
| For Class 54 Rating, Add   | 828.98                    |                         |
| For Class 55 Rating, Add   | 1,237.98                  |                         |
| For Class 56 Rating, Add   | 1,641.52                  |                         |
| 40 05 19 00-2172 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 6,510.07                  | 600.63                  |
| For Class 52 Rating, Deduct  | -616.00                   |                         |
| For Class 54 Rating, Add   | 850.92                    |                         |
| For Class 55 Rating, Add   | 1,270.65                  |                         |
| For Class 56 Rating, Add   | 1,684.77                  |                         |
| 40 05 19 00-2173 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 6,663.22                  | 605.56                  |
| For Class 52 Rating, Deduct  | -632.03                   |                         |
| For Class 54 Rating, Add   | 872.87                    |                         |
| For Class 55 Rating, Add   | 1,303.31                  |                         |
| For Class 56 Rating, Add   | 1,728.01                  |                         |
| 40 05 19 00-2174 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 6,816.37                  | 610.48                  |
| For Class 52 Rating, Deduct  | -648.05                   |                         |
| For Class 54 Rating, Add   | 894.81                    |                         |
| For Class 55 Rating, Add   | 1,335.98                  |                         |
| For Class 56 Rating, Add   | 1,771.26                  |                         |
| 40 05 19 00-2175 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 6,969.51                  | 615.40                  |
| For Class 52 Rating, Deduct  | -664.08                   |                         |
| For Class 54 Rating, Add   | 916.75                    |                         |
| For Class 55 Rating, Add   | 1,368.65                  |                         |
| For Class 56 Rating, Add   | 1,814.51                  |                         |
| 40 05 19 00-2176 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 7,122.66                  | 620.33                  |
| For Class 52 Rating, Deduct  | -680.10                   |                         |
| For Class 54 Rating, Add   | 938.69                    |                         |
| For Class 55 Rating, Add   | 1,401.32                  |                         |
| For Class 56 Rating, Add   | 1,857.75                  |                         |
| 40 05 19 00-2177 EA 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 7,275.81                  | 625.25                  |
| For Class 52 Rating, Deduct  | -696.13                   |                         |
| For Class 54 Rating, Add   | 960.64                    |                         |
| For Class 55 Rating, Add   | 1,433.98                  |                         |
| For Class 56 Rating, Add   | 1,901.00                  |                         |
| 40 05 19 00-2178 EA 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 7,428.95                  | 630.17                  |
| For Class 52 Rating, Deduct  | -712.16                   |                         |
| For Class 54 Rating, Add   | 982.58                    |                         |
| For Class 55 Rating, Add   | 1,466.65                  |                         |
| For Class 56 Rating, Add   | 1,944.25                  |                         |
| 40 05 19 00-2179 EA 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 7,582.10                  | 635.10                  |
| For Class 52 Rating, Deduct  | -728.18                   |                         |
| For Class 54 Rating, Add   | 1,004.52                  |                         |
| For Class 55 Rating, Add   | 1,499.32                  |                         |
| For Class 56 Rating, Add   | 1,987.49                  |                         |
| 40 05 19 00-2180 EA 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 7,735.25                  | 640.02                  |
| For Class 52 Rating, Deduct  | -744.21                   |                         |
| For Class 54 Rating, Add   | 1,026.46                  |                         |
| For Class 55 Rating, Add   | 1,531.98                  |                         |
| For Class 56 Rating, Add   | 2,030.74                  |                         |
| <b>40 05 19 00-2181 10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                           |                         |
| 40 05 19 00-2182 EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 2,409.90                  | 551.40                  |
| For Class 52 Rating, Deduct  | -173.19                   |                         |
| For Class 54 Rating, Add   | 246.19                    |                         |
| For Class 55 Rating, Add   | 371.15                    |                         |
| For Class 56 Rating, Add   | 494.54                    |                         |
| 40 05 19 00-2183 EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 2,606.50                  | 556.32                  |
| For Class 52 Rating, Deduct  | -193.99                   |                         |
| For Class 54 Rating, Add   | 274.65                    |                         |
| For Class 55 Rating, Add   | 413.51                    |                         |
| For Class 56 Rating, Add   | 550.60                    |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-2184 | EA  |     | 10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,803.10                  | 561.25                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -214.80                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 303.11                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 455.87                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 606.67                    |                         |
| 40 05 19 00-2185 | EA  |     | 10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 2,999.69                  | 566.17                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -235.60                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 331.57                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 498.22                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 662.73                    |                         |
| 40 05 19 00-2186 | EA  |     | 10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,196.30                  | 571.10                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -256.41                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 360.03                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 540.58                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 718.80                    |                         |
| 40 05 19 00-2187 | EA  |     | 10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,392.89                  | 576.01                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -277.22                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 388.49                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 582.94                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 774.86                    |                         |
| 40 05 19 00-2188 | EA  |     | 10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,589.49                  | 580.94                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -298.02                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 416.95                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 625.29                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 830.93                    |                         |
| 40 05 19 00-2189 | EA  |     | 10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,786.08                  | 585.87                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -318.83                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 445.41                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 667.65                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 886.99                    |                         |
| 40 05 19 00-2190 | EA  |     | 10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 3,982.68                  | 590.78                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -339.63                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 473.87                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 710.01                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 943.05                    |                         |
| 40 05 19 00-2191 | EA  |     | 10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,179.28                  | 595.71                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -360.44                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 502.33                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 752.36                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 999.12                    |                         |
| 40 05 19 00-2192 | EA  |     | 10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,375.88                  | 600.63                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -381.24                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 530.80                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 794.72                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,055.18                  |                         |
| 40 05 19 00-2193 | EA  |     | 10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,572.48                  | 605.56                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -402.05                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 559.26                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 837.08                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,111.25                  |                         |
| 40 05 19 00-2194 | EA  |     | 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,769.07                  | 610.48                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -422.85                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 587.71                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 879.43                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,167.31                  |                         |
| 40 05 19 00-2195 | EA  |     | 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,965.67                  | 615.40                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -443.66                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 616.18                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 921.79                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,223.37                  |                         |
| 40 05 19 00-2196 | EA  |     | 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,162.27                  | 620.33                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -464.46                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 644.64                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 964.15                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,279.44                  |                         |
| 40 05 19 00-2197 | EA  |     | 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,358.87                  | 625.25                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -485.27                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 673.10                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,006.51                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,335.50                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2198 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 5,555.46                  | 630.17                  |
| <i>For Class 52 Rating, Deduct</i>  | -506.07                   |                         |
| <i>For Class 54 Rating, Add</i>   | 701.56                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,048.86                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,391.57                  |                         |
| 40 05 19 00-2199 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 5,752.06                  | 635.10                  |
| <i>For Class 52 Rating, Deduct</i>  | -526.88                   |                         |
| <i>For Class 54 Rating, Add</i>   | 730.02                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,091.22                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,447.63                  |                         |
| 40 05 19 00-2200 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,948.66                  | 640.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -547.68                   |                         |
| <i>For Class 54 Rating, Add</i>   | 758.48                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,133.57                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,503.69                  |                         |
| 40 05 19 00-2201 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,145.25                  | 644.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -568.49                   |                         |
| <i>For Class 54 Rating, Add</i>   | 786.94                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,175.93                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,559.76                  |                         |
| 40 05 19 00-2202 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,341.86                  | 649.86                  |
| <i>For Class 52 Rating, Deduct</i>  | -589.29                   |                         |
| <i>For Class 54 Rating, Add</i>   | 815.40                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,218.29                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,615.82                  |                         |
| 40 05 19 00-2203 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,538.45                  | 654.79                  |
| <i>For Class 52 Rating, Deduct</i>  | -610.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 843.86                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,260.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,671.89                  |                         |
| 40 05 19 00-2204 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,735.05                  | 659.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -630.90                   |                         |
| <i>For Class 54 Rating, Add</i>   | 872.32                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,303.00                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,727.95                  |                         |
| 40 05 19 00-2205 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,931.64                  | 664.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -651.71                   |                         |
| <i>For Class 54 Rating, Add</i>   | 900.78                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,345.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,784.02                  |                         |
| 40 05 19 00-2206 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,128.24                  | 669.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -672.51                   |                         |
| <i>For Class 54 Rating, Add</i>   | 929.24                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,387.72                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,840.08                  |                         |
| 40 05 19 00-2207 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,324.85                  | 674.48                  |
| <i>For Class 52 Rating, Deduct</i>  | -693.32                   |                         |
| <i>For Class 54 Rating, Add</i>   | 957.70                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,430.07                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,896.15                  |                         |
| 40 05 19 00-2208 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,521.44                  | 679.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -714.12                   |                         |
| <i>For Class 54 Rating, Add</i>   | 986.16                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,472.43                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,952.21                  |                         |
| 40 05 19 00-2209 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,718.03                  | 684.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -734.93                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,014.62                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,514.79                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,008.27                  |                         |
| 40 05 19 00-2210 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,914.63                  | 689.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -755.73                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,043.08                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,557.14                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,064.34                  |                         |
| 40 05 19 00-2211 EA 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 8,111.23                  | 694.18                  |
| <i>For Class 52 Rating, Deduct</i>  | -776.54                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,071.54                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,599.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,120.40                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2212 | EA  |     | 10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,307.83               | 699.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -797.34                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,100.00               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,641.86               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,176.47               |                      |
| 40 05 19 00-2213 | EA  |     | 10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,504.43               | 704.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -818.15                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,128.46               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,684.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,232.53               |                      |
| 40 05 19 00-2214 | EA  |     | 10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,701.02               | 708.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -838.96                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,156.92               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,726.57               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,288.60               |                      |
| 40 05 19 00-2215 | EA  |     | 10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 8,897.62               | 713.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -859.76                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,185.38               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,768.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,344.66               |                      |
| 40 05 19 00-2216 | EA  |     | 10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,094.22               | 718.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -880.57                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,213.84               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,811.28               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,400.72               |                      |
| 40 05 19 00-2217 | EA  |     | 10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,290.81               | 723.71               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -901.37                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,242.30               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,853.64               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,456.79               |                      |
| 40 05 19 00-2218 | EA  |     | 10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,487.42               | 728.64               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -922.18                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,270.76               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,896.00               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,512.85               |                      |
| 40 05 19 00-2219 | EA  |     | 10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,684.01               | 733.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -942.98                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,299.22               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,938.36               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,568.92               |                      |
| 40 05 19 00-2220 | EA  |     | 10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 9,880.61               | 738.48               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -963.79                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,327.68               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,980.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,624.98               |                      |
| 40 05 19 00-2221 |     |     | <b>12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                        |                      |
| 40 05 19 00-2222 | EA  |     | 12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,140.17               | 689.25               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -230.54                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 326.91                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 492.44                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 655.87                 |                      |
| 40 05 19 00-2223 | EA  |     | 12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,382.78               | 694.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -256.41                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 362.27                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 545.06                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 725.51                 |                      |
| 40 05 19 00-2224 | EA  |     | 12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,625.38               | 699.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -282.28                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 397.63                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 597.67                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 795.14                 |                      |
| 40 05 19 00-2225 | EA  |     | 12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 3,867.99               | 704.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -308.14                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 432.99                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 650.29                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 864.78                 |                      |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2226 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,110.58                  | 708.94                  |
| <i>For Class 52 Rating, Deduct</i>   | -334.01                   |                         |
| <i>For Class 54 Rating, Add</i>  | 468.35                    |                         |
| <i>For Class 55 Rating, Add</i>  | 702.90                    |                         |
| <i>For Class 56 Rating, Add</i>  | 934.42                    |                         |
| 40 05 19 00-2227 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,353.20                  | 713.87                  |
| <i>For Class 52 Rating, Deduct</i>   | -359.87                   |                         |
| <i>For Class 54 Rating, Add</i>  | 503.72                    |                         |
| <i>For Class 55 Rating, Add</i>  | 755.52                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,004.05                  |                         |
| 40 05 19 00-2228 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,595.80                  | 718.79                  |
| <i>For Class 52 Rating, Deduct</i>   | -385.74                   |                         |
| <i>For Class 54 Rating, Add</i>  | 539.08                    |                         |
| <i>For Class 55 Rating, Add</i>  | 808.14                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,073.69                  |                         |
| 40 05 19 00-2229 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,838.40                  | 723.71                  |
| <i>For Class 52 Rating, Deduct</i>   | -411.61                   |                         |
| <i>For Class 54 Rating, Add</i>  | 574.44                    |                         |
| <i>For Class 55 Rating, Add</i>  | 860.75                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,143.33                  |                         |
| 40 05 19 00-2230 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,081.01                  | 728.64                  |
| <i>For Class 52 Rating, Deduct</i>   | -437.47                   |                         |
| <i>For Class 54 Rating, Add</i>  | 609.80                    |                         |
| <i>For Class 55 Rating, Add</i>  | 913.37                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,212.96                  |                         |
| 40 05 19 00-2231 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,323.61                  | 733.56                  |
| <i>For Class 52 Rating, Deduct</i>   | -463.34                   |                         |
| <i>For Class 54 Rating, Add</i>  | 645.16                    |                         |
| <i>For Class 55 Rating, Add</i>  | 965.99                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,282.60                  |                         |
| 40 05 19 00-2232 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,566.22                  | 738.48                  |
| <i>For Class 52 Rating, Deduct</i>   | -489.20                   |                         |
| <i>For Class 54 Rating, Add</i>  | 680.52                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,018.60                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,352.23                  |                         |
| 40 05 19 00-2233 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 5,808.82                  | 743.41                  |
| <i>For Class 52 Rating, Deduct</i>   | -515.07                   |                         |
| <i>For Class 54 Rating, Add</i>  | 715.88                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,071.22                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,421.87                  |                         |
| 40 05 19 00-2234 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,051.42                  | 748.33                  |
| <i>For Class 52 Rating, Deduct</i>   | -540.93                   |                         |
| <i>For Class 54 Rating, Add</i>  | 751.24                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,123.83                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,491.51                  |                         |
| 40 05 19 00-2235 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,294.03                  | 753.26                  |
| <i>For Class 52 Rating, Deduct</i>   | -566.80                   |                         |
| <i>For Class 54 Rating, Add</i>  | 786.61                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,176.45                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,561.14                  |                         |
| 40 05 19 00-2236 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,536.63                  | 758.17                  |
| <i>For Class 52 Rating, Deduct</i>   | -592.67                   |                         |
| <i>For Class 54 Rating, Add</i>  | 821.97                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,229.07                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,630.78                  |                         |
| 40 05 19 00-2237 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 6,779.23                  | 763.10                  |
| <i>For Class 52 Rating, Deduct</i>   | -618.53                   |                         |
| <i>For Class 54 Rating, Add</i>  | 857.33                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,281.68                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,700.41                  |                         |
| 40 05 19 00-2238 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,021.84                  | 768.03                  |
| <i>For Class 52 Rating, Deduct</i>   | -644.40                   |                         |
| <i>For Class 54 Rating, Add</i>  | 892.69                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,334.30                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,770.05                  |                         |
| 40 05 19 00-2239 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,264.44                  | 772.94                  |
| <i>For Class 52 Rating, Deduct</i>   | -670.26                   |                         |
| <i>For Class 54 Rating, Add</i>  | 928.05                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,386.92                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,839.69                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2240 | EA  |     | 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,507.05               | 777.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -696.13                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 963.41                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,439.53               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,909.32               |                      |
| 40 05 19 00-2241 | EA  |     | 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,749.65               | 782.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -722.00                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 998.77                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,492.15               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,978.96               |                      |
| 40 05 19 00-2242 | EA  |     | 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 7,992.26               | 787.72               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -747.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,034.13               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,544.77               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,048.60               |                      |
| 40 05 19 00-2243 | EA  |     | 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,234.86               | 792.64               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -773.73                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,069.50               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,597.38               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,118.23               |                      |
| 40 05 19 00-2244 | EA  |     | 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,477.47               | 797.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -799.59                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,104.86               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,650.00               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,187.87               |                      |
| 40 05 19 00-2245 | EA  |     | 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,720.06               | 802.49               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -825.46                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,140.22               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,702.61               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,257.50               |                      |
| 40 05 19 00-2246 | EA  |     | 12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,960.12               | 807.41               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -851.04                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,175.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,754.66               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,326.39               |                      |
| 40 05 19 00-2247 | EA  |     | 12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,205.27               | 812.33               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -877.19                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,210.94               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,807.85               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,396.78               |                      |
| 40 05 19 00-2248 | EA  |     | 12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,447.89               | 817.26               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -903.06                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,246.30               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,860.46               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,466.42               |                      |
| 40 05 19 00-2249 | EA  |     | 12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,690.49               | 822.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -928.92                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,281.66               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,913.08               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,536.05               |                      |
| 40 05 19 00-2250 | EA  |     | 12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,933.08               | 827.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -954.79                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,317.02               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,965.69               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,605.68               |                      |
| 40 05 19 00-2251 | EA  |     | 12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,175.70              | 832.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -980.66                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,352.39               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,018.31               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,675.32               |                      |
| 40 05 19 00-2252 | EA  |     | 12" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,418.29              | 836.95               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,006.52              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,387.75               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,070.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,744.96               |                      |
| 40 05 19 00-2253 | EA  |     | 12" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,660.90              | 841.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,032.39              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,423.11               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,123.54               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,814.60               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2254 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 10,903.50                 | 846.79                  |
| For Class 52 Rating, Deduct  | -1,058.25                 |                         |
| For Class 54 Rating, Add   | 1,458.47                  |                         |
| For Class 55 Rating, Add   | 2,176.16                  |                         |
| For Class 56 Rating, Add   | 2,884.23                  |                         |
| 40 05 19 00-2255 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 11,146.11                 | 851.72                  |
| For Class 52 Rating, Deduct  | -1,084.12                 |                         |
| For Class 54 Rating, Add   | 1,493.83                  |                         |
| For Class 55 Rating, Add   | 2,228.78                  |                         |
| For Class 56 Rating, Add   | 2,953.87                  |                         |
| 40 05 19 00-2256 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 11,388.71                 | 856.64                  |
| For Class 52 Rating, Deduct  | -1,109.98                 |                         |
| For Class 54 Rating, Add   | 1,529.19                  |                         |
| For Class 55 Rating, Add   | 2,281.39                  |                         |
| For Class 56 Rating, Add   | 3,023.50                  |                         |
| 40 05 19 00-2257 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 11,631.32                 | 861.57                  |
| For Class 52 Rating, Deduct  | -1,135.85                 |                         |
| For Class 54 Rating, Add   | 1,564.55                  |                         |
| For Class 55 Rating, Add   | 2,334.01                  |                         |
| For Class 56 Rating, Add   | 3,093.14                  |                         |
| 40 05 19 00-2258 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 11,873.92                 | 866.48                  |
| For Class 52 Rating, Deduct  | -1,161.72                 |                         |
| For Class 54 Rating, Add   | 1,599.91                  |                         |
| For Class 55 Rating, Add   | 2,386.63                  |                         |
| For Class 56 Rating, Add   | 3,162.78                  |                         |
| 40 05 19 00-2259 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 12,116.53                 | 871.41                  |
| For Class 52 Rating, Deduct  | -1,187.58                 |                         |
| For Class 54 Rating, Add   | 1,635.28                  |                         |
| For Class 55 Rating, Add   | 2,439.24                  |                         |
| For Class 56 Rating, Add   | 3,232.41                  |                         |
| 40 05 19 00-2260 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 12,359.13                 | 876.34                  |
| For Class 52 Rating, Deduct  | -1,213.45                 |                         |
| For Class 54 Rating, Add   | 1,670.64                  |                         |
| For Class 55 Rating, Add   | 2,491.86                  |                         |
| For Class 56 Rating, Add   | 3,302.05                  |                         |
| <b>40 05 19 00-2261 14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                           |                         |
| 40 05 19 00-2262 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 4,169.48                  | 827.10                  |
| For Class 52 Rating, Deduct  | -320.79                   |                         |
| For Class 54 Rating, Add   | 452.48                    |                         |
| For Class 55 Rating, Add   | 680.41                    |                         |
| For Class 56 Rating, Add   | 905.42                    |                         |
| 40 05 19 00-2263 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 4,463.22                  | 832.02                  |
| For Class 52 Rating, Deduct  | -352.28                   |                         |
| For Class 54 Rating, Add   | 495.51                    |                         |
| For Class 55 Rating, Add   | 744.43                    |                         |
| For Class 56 Rating, Add   | 990.14                    |                         |
| 40 05 19 00-2264 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 4,756.93                  | 836.95                  |
| For Class 52 Rating, Deduct  | -383.77                   |                         |
| For Class 54 Rating, Add   | 538.54                    |                         |
| For Class 55 Rating, Add   | 808.44                    |                         |
| For Class 56 Rating, Add   | 1,074.86                  |                         |
| 40 05 19 00-2265 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 5,050.65                  | 841.87                  |
| For Class 52 Rating, Deduct  | -415.26                   |                         |
| For Class 54 Rating, Add   | 581.57                    |                         |
| For Class 55 Rating, Add   | 872.46                    |                         |
| For Class 56 Rating, Add   | 1,159.57                  |                         |
| 40 05 19 00-2266 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 5,344.38                  | 846.79                  |
| For Class 52 Rating, Deduct  | -446.75                   |                         |
| For Class 54 Rating, Add   | 624.60                    |                         |
| For Class 55 Rating, Add   | 936.48                    |                         |
| For Class 56 Rating, Add   | 1,244.29                  |                         |
| 40 05 19 00-2267 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 5,638.10                  | 851.72                  |
| For Class 52 Rating, Deduct  | -478.24                   |                         |
| For Class 54 Rating, Add   | 667.63                    |                         |
| For Class 55 Rating, Add   | 1,000.49                  |                         |
| For Class 56 Rating, Add   | 1,329.01                  |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2268 | EA  |     | 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,931.82                  | 856.64                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -509.73                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 710.66                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,064.51                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,413.72                  |                         |
| 40 05 19 00-2269 | EA  |     | 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,225.55                  | 861.57                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -541.22                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 753.69                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,128.52                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,498.44                  |                         |
| 40 05 19 00-2270 | EA  |     | 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,519.27                  | 866.48                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -572.71                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 796.72                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,192.54                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,583.15                  |                         |
| 40 05 19 00-2271 | EA  |     | 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,812.99                  | 871.41                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -604.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 839.74                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,256.55                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,667.87                  |                         |
| 40 05 19 00-2272 | EA  |     | 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,106.72                  | 876.34                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -635.68                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 882.77                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,320.57                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,752.59                  |                         |
| 40 05 19 00-2273 | EA  |     | 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,400.44                  | 881.25                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -667.17                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 925.80                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,384.59                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,837.30                  |                         |
| 40 05 19 00-2274 | EA  |     | 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,694.16                  | 886.18                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -698.66                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 968.83                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,448.60                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,922.02                  |                         |
| 40 05 19 00-2275 | EA  |     | 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,987.87                  | 891.10                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -730.15                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,011.86                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,512.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,006.73                  |                         |
| 40 05 19 00-2276 | EA  |     | 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,281.61                  | 896.03                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -761.64                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,054.89                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,576.63                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,091.45                  |                         |
| 40 05 19 00-2277 | EA  |     | 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,575.33                  | 900.95                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -793.13                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,097.92                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,640.65                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,176.17                  |                         |
| 40 05 19 00-2278 | EA  |     | 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,869.04                  | 905.87                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -824.62                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,140.95                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,704.66                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,260.88                  |                         |
| 40 05 19 00-2279 | EA  |     | 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,162.78                  | 910.80                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -856.11                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,183.98                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,768.68                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,345.60                  |                         |
| 40 05 19 00-2280 | EA  |     | 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,456.49                  | 915.72                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -887.59                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,227.01                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,832.69                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,430.32                  |                         |
| 40 05 19 00-2281 | EA  |     | 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,750.22                  | 920.64                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -919.08                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,270.03                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,896.71                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,515.03                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2282 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,043.94                 | 925.57                  |
| <i>For Class 52 Rating, Deduct</i>  | -950.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,313.06                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,960.73                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,599.75                  |                         |
| 40 05 19 00-2283 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,337.66                 | 930.49                  |
| <i>For Class 52 Rating, Deduct</i>  | -982.06                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,356.09                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,024.74                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,684.46                  |                         |
| 40 05 19 00-2284 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,631.39                 | 935.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,013.55                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,399.12                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,088.76                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,769.18                  |                         |
| 40 05 19 00-2285 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 10,925.10                 | 940.33                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,045.04                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,442.15                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,152.77                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,853.89                  |                         |
| 40 05 19 00-2286 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,218.83                 | 945.26                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,076.53                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,485.18                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,216.79                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,938.61                  |                         |
| 40 05 19 00-2287 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,512.55                 | 950.19                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,108.02                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,528.21                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,280.80                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,023.33                  |                         |
| 40 05 19 00-2288 EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,806.27                 | 955.10                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,139.51                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,571.24                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,344.82                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,108.04                  |                         |
| 40 05 19 00-2289 EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,100.00                 | 960.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,171.00                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,614.27                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,408.84                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,192.76                  |                         |
| 40 05 19 00-2290 EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,393.72                 | 964.95                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,202.48                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,657.30                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,472.85                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,277.48                  |                         |
| 40 05 19 00-2291 EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,687.43                 | 969.88                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,233.97                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,700.32                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,536.87                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,362.19                  |                         |
| 40 05 19 00-2292 EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,981.17                 | 974.80                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,265.46                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,743.35                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,600.88                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,446.91                  |                         |
| 40 05 19 00-2293 EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,274.89                 | 979.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,296.95                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,786.38                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,664.90                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,531.63                  |                         |
| 40 05 19 00-2294 EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,568.60                 | 984.65                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,328.44                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,829.41                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,728.91                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,616.34                  |                         |
| 40 05 19 00-2295 EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,862.33                 | 989.57                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,359.93                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,872.44                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,792.93                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,701.06                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2296 | EA  |     | 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 14,156.05              | 994.49               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,391.42              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,915.47               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,856.95               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,785.77               |                      |
| 40 05 19 00-2297 | EA  |     | 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 14,449.78              | 999.41               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,422.91              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,958.50               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,920.96               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,870.49               |                      |
| 40 05 19 00-2298 | EA  |     | 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 14,743.49              | 1,004.34             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,454.39              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,001.53               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,984.98               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,955.20               |                      |
| 40 05 19 00-2299 | EA  |     | 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 15,037.22              | 1,009.26             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,485.88              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,044.56               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,048.99               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,039.92               |                      |
| 40 05 19 00-2300 |     |     | <b>16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                        |                      |
| 40 05 19 00-2301 | EA  |     | 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 4,882.70               | 945.26               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -379.55                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 534.76                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 803.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,069.45               |                      |
| 40 05 19 00-2302 | EA  |     | 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,222.43               | 950.19               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -416.10                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 584.69                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 878.11                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,167.74               |                      |
| 40 05 19 00-2303 | EA  |     | 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,562.16               | 955.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -452.65                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 634.62                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 952.38                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,266.03               |                      |
| 40 05 19 00-2304 | EA  |     | 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 5,901.89               | 960.03               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -489.20                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 684.55                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,026.66               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,364.32               |                      |
| 40 05 19 00-2305 | EA  |     | 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 6,241.62               | 964.95               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -525.75                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 734.48                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,100.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,462.61               |                      |
| 40 05 19 00-2306 | EA  |     | 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 6,581.34               | 969.88               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -562.30                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 784.41                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,175.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,560.89               |                      |
| 40 05 19 00-2307 | EA  |     | 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 6,921.08               | 974.80               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -598.85                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 834.34                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,249.48               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,659.18               |                      |
| 40 05 19 00-2308 | EA  |     | 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 7,260.81               | 979.72               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -635.40                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 884.27                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,323.76               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,757.47               |                      |
| 40 05 19 00-2309 | EA  |     | 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 7,600.53               | 984.65               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -671.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 934.20                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,398.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,855.76               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2310 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 7,940.27                  | 989.57                  |
| For Class 52 Rating, Deduct   | -708.50                   |                         |
| For Class 54 Rating, Add  | 984.13                    |                         |
| For Class 55 Rating, Add  | 1,472.31                  |                         |
| For Class 56 Rating, Add  | 1,954.05                  |                         |
| 40 05 19 00-2311 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 8,279.99                  | 994.49                  |
| For Class 52 Rating, Deduct   | -745.05                   |                         |
| For Class 54 Rating, Add  | 1,034.06                  |                         |
| For Class 55 Rating, Add  | 1,546.58                  |                         |
| For Class 56 Rating, Add  | 2,052.34                  |                         |
| 40 05 19 00-2312 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 8,619.73                  | 999.41                  |
| For Class 52 Rating, Deduct   | -781.60                   |                         |
| For Class 54 Rating, Add  | 1,083.99                  |                         |
| For Class 55 Rating, Add  | 1,620.86                  |                         |
| For Class 56 Rating, Add  | 2,150.62                  |                         |
| 40 05 19 00-2313 EA 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 8,959.45                  | 1,004.34                |
| For Class 52 Rating, Deduct   | -818.15                   |                         |
| For Class 54 Rating, Add  | 1,133.92                  |                         |
| For Class 55 Rating, Add  | 1,695.14                  |                         |
| For Class 56 Rating, Add  | 2,248.91                  |                         |
| 40 05 19 00-2314 EA 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 9,299.18                  | 1,009.26                |
| For Class 52 Rating, Deduct   | -854.70                   |                         |
| For Class 54 Rating, Add  | 1,183.85                  |                         |
| For Class 55 Rating, Add  | 1,769.41                  |                         |
| For Class 56 Rating, Add  | 2,347.20                  |                         |
| 40 05 19 00-2315 EA 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 9,638.92                  | 1,014.18                |
| For Class 52 Rating, Deduct   | -891.25                   |                         |
| For Class 54 Rating, Add  | 1,233.78                  |                         |
| For Class 55 Rating, Add  | 1,843.69                  |                         |
| For Class 56 Rating, Add  | 2,445.49                  |                         |
| 40 05 19 00-2316 EA 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 9,978.64                  | 1,019.11                |
| For Class 52 Rating, Deduct   | -927.80                   |                         |
| For Class 54 Rating, Add  | 1,283.71                  |                         |
| For Class 55 Rating, Add  | 1,917.96                  |                         |
| For Class 56 Rating, Add  | 2,543.78                  |                         |
| 40 05 19 00-2317 EA 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 10,318.37                 | 1,024.03                |
| For Class 52 Rating, Deduct   | -964.35                   |                         |
| For Class 54 Rating, Add  | 1,333.64                  |                         |
| For Class 55 Rating, Add  | 1,992.24                  |                         |
| For Class 56 Rating, Add  | 2,642.07                  |                         |
| 40 05 19 00-2318 EA 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 10,658.10                 | 1,028.95                |
| For Class 52 Rating, Deduct   | -1,000.90                 |                         |
| For Class 54 Rating, Add  | 1,383.57                  |                         |
| For Class 55 Rating, Add  | 2,066.51                  |                         |
| For Class 56 Rating, Add  | 2,740.35                  |                         |
| 40 05 19 00-2319 EA 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 10,997.82                 | 1,033.88                |
| For Class 52 Rating, Deduct   | -1,037.45                 |                         |
| For Class 54 Rating, Add  | 1,433.50                  |                         |
| For Class 55 Rating, Add  | 2,140.78                  |                         |
| For Class 56 Rating, Add  | 2,838.64                  |                         |
| 40 05 19 00-2320 EA 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 11,337.55                 | 1,038.80                |
| For Class 52 Rating, Deduct   | -1,074.00                 |                         |
| For Class 54 Rating, Add  | 1,483.43                  |                         |
| For Class 55 Rating, Add  | 2,215.06                  |                         |
| For Class 56 Rating, Add  | 2,936.93                  |                         |
| 40 05 19 00-2321 EA 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 11,677.28                 | 1,043.73                |
| For Class 52 Rating, Deduct   | -1,110.55                 |                         |
| For Class 54 Rating, Add  | 1,533.36                  |                         |
| For Class 55 Rating, Add  | 2,289.33                  |                         |
| For Class 56 Rating, Add  | 3,035.22                  |                         |
| 40 05 19 00-2322 EA 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 12,017.01                 | 1,048.64                |
| For Class 52 Rating, Deduct   | -1,147.10                 |                         |
| For Class 54 Rating, Add  | 1,583.29                  |                         |
| For Class 55 Rating, Add  | 2,363.61                  |                         |
| For Class 56 Rating, Add  | 3,133.50                  |                         |
| 40 05 19 00-2323 EA 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 12,356.74                 | 1,053.57                |
| For Class 52 Rating, Deduct   | -1,183.65                 |                         |
| For Class 54 Rating, Add  | 1,633.22                  |                         |
| For Class 55 Rating, Add  | 2,437.89                  |                         |
| For Class 56 Rating, Add  | 3,231.79                  |                         |



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2324 | EA  |     | 16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,696.47              | 1,058.50             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,220.20              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,683.15               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,512.16               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,330.08               |                      |
| 40 05 19 00-2325 | EA  |     | 16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,036.19              | 1,063.41             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,256.75              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,733.08               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,586.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,428.37               |                      |
| 40 05 19 00-2326 | EA  |     | 16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,375.93              | 1,068.34             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,293.30              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,783.01               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,660.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,526.66               |                      |
| 40 05 19 00-2327 | EA  |     | 16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,715.65              | 1,073.26             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,329.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,832.94               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,734.99               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,624.94               |                      |
| 40 05 19 00-2328 | EA  |     | 16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,055.39              | 1,078.19             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,366.39              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,882.87               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,809.26               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,723.23               |                      |
| 40 05 19 00-2329 | EA  |     | 16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,395.11              | 1,083.11             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,402.94              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,932.80               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,883.54               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,821.52               |                      |
| 40 05 19 00-2330 | EA  |     | 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,734.84              | 1,088.03             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,439.49              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,982.73               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,957.81               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,919.81               |                      |
| 40 05 19 00-2331 | EA  |     | 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,074.58              | 1,092.96             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,476.04              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,032.66               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,032.09               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,018.10               |                      |
| 40 05 19 00-2332 | EA  |     | 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,414.30              | 1,097.88             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,512.59              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,082.59               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,106.36               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,116.38               |                      |
| 40 05 19 00-2333 | EA  |     | 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,754.03              | 1,102.80             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,549.14              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,132.52               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,180.64               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,214.67               |                      |
| 40 05 19 00-2334 | EA  |     | 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,093.76              | 1,107.73             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,585.69              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,182.45               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,254.91               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,312.96               |                      |
| 40 05 19 00-2335 | EA  |     | 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,433.49              | 1,112.65             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,622.24              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,232.38               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,329.19               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,411.25               |                      |
| 40 05 19 00-2336 | EA  |     | 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 16,773.22              | 1,117.57             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,658.79              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,282.31               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,403.46               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,509.54               |                      |
| 40 05 19 00-2337 | EA  |     | 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 17,112.95              | 1,122.49             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,695.34              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,332.24               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,477.74               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,607.83               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2338 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 17,452.68                 | 1,127.42                |
| For Class 52 Rating, Deduct   | -1,731.89                 |                         |
| For Class 54 Rating, Add  | 2,382.17                  |                         |
| For Class 55 Rating, Add  | 3,552.01                  |                         |
| For Class 56 Rating, Add  | 4,706.11                  |                         |
| <b>40 05 19 00-2339 18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b>              |                           |                         |
| (40 05 19 00-2060)  |                           |                         |
| 40 05 19 00-2340 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 5,678.13                  | 1,065.39                |
| For Class 52 Rating, Deduct   | -447.03                   |                         |
| For Class 54 Rating, Add  | 628.96                    |                         |
| For Class 55 Rating, Add  | 944.99                    |                         |
| For Class 56 Rating, Add  | 1,256.97                  |                         |
| 40 05 19 00-2341 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 6,068.98                  | 1,070.31                |
| For Class 52 Rating, Deduct   | -489.20                   |                         |
| For Class 54 Rating, Add  | 686.56                    |                         |
| For Class 55 Rating, Add  | 1,030.67                  |                         |
| For Class 56 Rating, Add  | 1,370.33                  |                         |
| 40 05 19 00-2342 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 6,459.83                  | 1,075.23                |
| For Class 52 Rating, Deduct   | -531.38                   |                         |
| For Class 54 Rating, Add  | 744.15                    |                         |
| For Class 55 Rating, Add  | 1,116.34                  |                         |
| For Class 56 Rating, Add  | 1,483.70                  |                         |
| 40 05 19 00-2343 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 6,850.68                  | 1,080.16                |
| For Class 52 Rating, Deduct   | -573.55                   |                         |
| For Class 54 Rating, Add  | 801.75                    |                         |
| For Class 55 Rating, Add  | 1,202.02                  |                         |
| For Class 56 Rating, Add  | 1,597.07                  |                         |
| 40 05 19 00-2344 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 7,241.52                  | 1,085.07                |
| For Class 52 Rating, Deduct   | -615.72                   |                         |
| For Class 54 Rating, Add  | 859.35                    |                         |
| For Class 55 Rating, Add  | 1,287.69                  |                         |
| For Class 56 Rating, Add  | 1,710.44                  |                         |
| 40 05 19 00-2345 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 7,632.37                  | 1,090.00                |
| For Class 52 Rating, Deduct   | -657.89                   |                         |
| For Class 54 Rating, Add  | 916.95                    |                         |
| For Class 55 Rating, Add  | 1,373.37                  |                         |
| For Class 56 Rating, Add  | 1,823.81                  |                         |
| 40 05 19 00-2346 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 8,023.22                  | 1,094.93                |
| For Class 52 Rating, Deduct   | -700.07                   |                         |
| For Class 54 Rating, Add  | 974.54                    |                         |
| For Class 55 Rating, Add  | 1,459.04                  |                         |
| For Class 56 Rating, Add  | 1,937.17                  |                         |
| 40 05 19 00-2347 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 8,414.06                  | 1,099.85                |
| For Class 52 Rating, Deduct   | -742.24                   |                         |
| For Class 54 Rating, Add  | 1,032.14                  |                         |
| For Class 55 Rating, Add  | 1,544.72                  |                         |
| For Class 56 Rating, Add  | 2,050.54                  |                         |
| 40 05 19 00-2348 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 8,804.92                  | 1,104.77                |
| For Class 52 Rating, Deduct   | -784.41                   |                         |
| For Class 54 Rating, Add  | 1,089.74                  |                         |
| For Class 55 Rating, Add  | 1,630.39                  |                         |
| For Class 56 Rating, Add  | 2,163.91                  |                         |
| 40 05 19 00-2349 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 9,195.75                  | 1,109.69                |
| For Class 52 Rating, Deduct   | -826.58                   |                         |
| For Class 54 Rating, Add  | 1,147.34                  |                         |
| For Class 55 Rating, Add  | 1,716.06                  |                         |
| For Class 56 Rating, Add  | 2,277.28                  |                         |
| 40 05 19 00-2350 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 9,586.61                  | 1,114.62                |
| For Class 52 Rating, Deduct   | -868.76                   |                         |
| For Class 54 Rating, Add  | 1,204.93                  |                         |
| For Class 55 Rating, Add  | 1,801.74                  |                         |
| For Class 56 Rating, Add  | 2,390.65                  |                         |
| 40 05 19 00-2351 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 9,977.45                  | 1,119.55                |
| For Class 52 Rating, Deduct   | -910.93                   |                         |
| For Class 54 Rating, Add  | 1,262.53                  |                         |
| For Class 55 Rating, Add  | 1,887.41                  |                         |
| For Class 56 Rating, Add  | 2,504.01                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2352 | EA  |     | 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,368.30              | 1,124.46             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -953.10                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,320.13               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,973.09               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,617.38               |                      |
| 40 05 19 00-2353 | EA  |     | 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,759.16              | 1,129.39             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -995.28                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,377.73               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,058.76               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,730.75               |                      |
| 40 05 19 00-2354 | EA  |     | 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 11,149.99              | 1,134.31             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,037.45              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,435.32               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,144.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,844.12               |                      |
| 40 05 19 00-2355 | EA  |     | 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 11,540.84              | 1,139.23             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,079.62              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,492.92               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,230.11               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,957.49               |                      |
| 40 05 19 00-2356 | EA  |     | 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 11,931.69              | 1,144.16             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,121.79              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,550.52               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,315.79               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,070.85               |                      |
| 40 05 19 00-2357 | EA  |     | 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 12,322.54              | 1,149.08             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,163.97              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,608.12               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,401.46               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,184.22               |                      |
| 40 05 19 00-2358 | EA  |     | 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 12,713.39              | 1,154.01             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,206.14              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,665.72               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,487.14               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,297.59               |                      |
| 40 05 19 00-2359 | EA  |     | 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,104.23              | 1,158.92             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,248.31              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,723.31               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,572.81               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,410.96               |                      |
| 40 05 19 00-2360 | EA  |     | 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,495.08              | 1,163.85             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,290.48              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,780.91               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,658.48               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,524.33               |                      |
| 40 05 19 00-2361 | EA  |     | 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 13,885.93              | 1,168.77             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,332.66              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,838.51               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,744.16               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,637.69               |                      |
| 40 05 19 00-2362 | EA  |     | 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,276.78              | 1,173.70             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,374.83              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,896.11               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,829.83               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,751.06               |                      |
| 40 05 19 00-2363 | EA  |     | 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 14,667.62              | 1,178.62             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,417.00              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,953.71               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,915.51               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,864.43               |                      |
| 40 05 19 00-2364 | EA  |     | 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,058.47              | 1,183.54             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,459.17              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,011.30               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,001.18               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,977.80               |                      |
| 40 05 19 00-2365 | EA  |     | 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 15,449.31              | 1,188.47             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,501.35              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,068.90               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,086.86               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,091.17               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2366 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 15,840.17                 | 1,193.38                |
| For Class 52 Rating, Deduct   | -1,543.52                 |                         |
| For Class 54 Rating, Add  | 2,126.50                  |                         |
| For Class 55 Rating, Add  | 3,172.53                  |                         |
| For Class 56 Rating, Add  | 4,204.53                  |                         |
| 40 05 19 00-2367 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 16,231.02                 | 1,198.31                |
| For Class 52 Rating, Deduct   | -1,585.69                 |                         |
| For Class 54 Rating, Add  | 2,184.10                  |                         |
| For Class 55 Rating, Add  | 3,258.21                  |                         |
| For Class 56 Rating, Add  | 4,317.90                  |                         |
| 40 05 19 00-2368 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 16,621.86                 | 1,203.24                |
| For Class 52 Rating, Deduct   | -1,627.87                 |                         |
| For Class 54 Rating, Add  | 2,241.69                  |                         |
| For Class 55 Rating, Add  | 3,343.88                  |                         |
| For Class 56 Rating, Add  | 4,431.27                  |                         |
| 40 05 19 00-2369 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 17,012.71                 | 1,208.16                |
| For Class 52 Rating, Deduct   | -1,670.04                 |                         |
| For Class 54 Rating, Add  | 2,299.29                  |                         |
| For Class 55 Rating, Add  | 3,429.55                  |                         |
| For Class 56 Rating, Add  | 4,544.64                  |                         |
| 40 05 19 00-2370 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 17,403.55                 | 1,213.08                |
| For Class 52 Rating, Deduct   | -1,712.21                 |                         |
| For Class 54 Rating, Add  | 2,356.89                  |                         |
| For Class 55 Rating, Add  | 3,515.23                  |                         |
| For Class 56 Rating, Add  | 4,658.01                  |                         |
| 40 05 19 00-2371 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 17,794.41                 | 1,218.00                |
| For Class 52 Rating, Deduct   | -1,754.38                 |                         |
| For Class 54 Rating, Add  | 2,414.49                  |                         |
| For Class 55 Rating, Add  | 3,600.90                  |                         |
| For Class 56 Rating, Add  | 4,771.37                  |                         |
| 40 05 19 00-2372 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 18,185.25                 | 1,222.93                |
| For Class 52 Rating, Deduct   | -1,796.56                 |                         |
| For Class 54 Rating, Add  | 2,472.08                  |                         |
| For Class 55 Rating, Add  | 3,686.58                  |                         |
| For Class 56 Rating, Add  | 4,884.74                  |                         |
| 40 05 19 00-2373 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 18,576.10                 | 1,227.86                |
| For Class 52 Rating, Deduct   | -1,838.73                 |                         |
| For Class 54 Rating, Add  | 2,529.68                  |                         |
| For Class 55 Rating, Add  | 3,772.25                  |                         |
| For Class 56 Rating, Add  | 4,998.11                  |                         |
| 40 05 19 00-2374 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 18,966.95                 | 1,232.77                |
| For Class 52 Rating, Deduct   | -1,880.90                 |                         |
| For Class 54 Rating, Add  | 2,587.28                  |                         |
| For Class 55 Rating, Add  | 3,857.93                  |                         |
| For Class 56 Rating, Add  | 5,111.48                  |                         |
| 40 05 19 00-2375 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 19,357.79                 | 1,237.70                |
| For Class 52 Rating, Deduct   | -1,923.07                 |                         |
| For Class 54 Rating, Add  | 2,644.88                  |                         |
| For Class 55 Rating, Add  | 3,943.60                  |                         |
| For Class 56 Rating, Add  | 5,224.85                  |                         |
| 40 05 19 00-2376 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 19,748.64                 | 1,242.62                |
| For Class 52 Rating, Deduct   | -1,965.25                 |                         |
| For Class 54 Rating, Add  | 2,702.48                  |                         |
| For Class 55 Rating, Add  | 4,029.28                  |                         |
| For Class 56 Rating, Add  | 5,338.21                  |                         |
| 40 05 19 00-2377 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 20,139.49                 | 1,247.55                |
| For Class 52 Rating, Deduct   | -2,007.42                 |                         |
| For Class 54 Rating, Add  | 2,760.07                  |                         |
| For Class 55 Rating, Add  | 4,114.95                  |                         |
| For Class 56 Rating, Add  | 5,451.58                  |                         |
| <b>40 05 19 00-2378 20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b>              |                           |                         |
| <small>(40 05 19 00-2060)</small>   |                           |                         |
| 40 05 19 00-2379 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 6,634.83                  | 1,216.04                |
| For Class 52 Rating, Deduct   | -527.16                   |                         |
| For Class 54 Rating, Add  | 740.96                    |                         |
| For Class 55 Rating, Add  | 1,112.91                  |                         |
| For Class 56 Rating, Add  | 1,480.07                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2380 | EA  |     | 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,079.35               | 1,220.96             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -575.24                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 806.61                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,210.56               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,609.27               |                      |
| 40 05 19 00-2381 | EA  |     | 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,523.87               | 1,225.88             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -623.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 872.26                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,308.20               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,738.48               |                      |
| 40 05 19 00-2382 | EA  |     | 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 7,968.39               | 1,230.80             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -671.39                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 937.91                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,405.85               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,867.68               |                      |
| 40 05 19 00-2383 | EA  |     | 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 8,412.92               | 1,235.73             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -719.47                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,003.56               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,503.49               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,996.88               |                      |
| 40 05 19 00-2384 | EA  |     | 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 8,857.44               | 1,240.66             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -767.54                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,069.21               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,601.13               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,126.08               |                      |
| 40 05 19 00-2385 | EA  |     | 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 9,301.95               | 1,245.57             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -815.62                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,134.85               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,698.78               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,255.28               |                      |
| 40 05 19 00-2386 | EA  |     | 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 9,746.49               | 1,250.50             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -863.70                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,200.50               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,796.42               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,384.49               |                      |
| 40 05 19 00-2387 | EA  |     | 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 10,191.00              | 1,255.42             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -911.77                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,266.15               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,894.07               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,513.69               |                      |
| 40 05 19 00-2388 | EA  |     | 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 10,635.53              | 1,260.35             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -959.85                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,331.80               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,991.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,642.89               |                      |
| 40 05 19 00-2389 | EA  |     | 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 11,080.04              | 1,265.27             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,007.93              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,397.45               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,089.35               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,772.09               |                      |
| 40 05 19 00-2390 | EA  |     | 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 11,524.57              | 1,270.19             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,056.00              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,463.10               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,187.00               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,901.29               |                      |
| 40 05 19 00-2391 | EA  |     | 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 11,969.10              | 1,275.12             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,104.08              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,528.75               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,284.64               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,030.50               |                      |
| 40 05 19 00-2392 | EA  |     | 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 12,413.61              | 1,280.04             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,152.16              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,594.40               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,382.28               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,159.70               |                      |
| 40 05 19 00-2393 | EA  |     | 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 12,858.13              | 1,284.96             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,200.23              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,660.05               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,479.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,288.90               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2394 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 13,302.65                 | 1,289.89                |
| <i>For Class 52 Rating, Deduct</i>  | -1,248.31                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,725.69                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,577.57                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,418.10                  |                         |
| 40 05 19 00-2395 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 13,747.18                 | 1,294.81                |
| <i>For Class 52 Rating, Deduct</i>  | -1,296.39                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,791.34                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,675.22                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,547.30                  |                         |
| 40 05 19 00-2396 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 14,191.70                 | 1,299.73                |
| <i>For Class 52 Rating, Deduct</i>  | -1,344.47                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,856.99                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,772.86                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,676.51                  |                         |
| 40 05 19 00-2397 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 14,636.22                 | 1,304.65                |
| <i>For Class 52 Rating, Deduct</i>  | -1,392.54                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,922.64                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,870.50                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,805.71                  |                         |
| 40 05 19 00-2398 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 15,080.74                 | 1,309.58                |
| <i>For Class 52 Rating, Deduct</i>  | -1,440.62                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,988.29                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,968.15                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,934.91                  |                         |
| 40 05 19 00-2399 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 15,525.27                 | 1,314.50                |
| <i>For Class 52 Rating, Deduct</i>  | -1,488.70                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,053.94                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,065.79                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,064.11                  |                         |
| 40 05 19 00-2400 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 15,969.79                 | 1,319.42                |
| <i>For Class 52 Rating, Deduct</i>  | -1,536.77                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,119.59                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,163.44                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,193.31                  |                         |
| 40 05 19 00-2401 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 16,414.30                 | 1,324.35                |
| <i>For Class 52 Rating, Deduct</i>  | -1,584.85                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,185.24                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,261.08                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,322.51                  |                         |
| 40 05 19 00-2402 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 16,858.83                 | 1,329.27                |
| <i>For Class 52 Rating, Deduct</i>  | -1,632.93                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,250.89                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,358.72                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,451.72                  |                         |
| 40 05 19 00-2403 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 17,303.35                 | 1,334.20                |
| <i>For Class 52 Rating, Deduct</i>  | -1,681.00                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,316.54                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,456.37                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,580.92                  |                         |
| 40 05 19 00-2404 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 17,747.88                 | 1,339.11                |
| <i>For Class 52 Rating, Deduct</i>  | -1,729.08                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,382.18                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,554.01                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,710.12                  |                         |
| 40 05 19 00-2405 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 18,192.40                 | 1,344.04                |
| <i>For Class 52 Rating, Deduct</i>  | -1,777.16                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,447.83                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,651.66                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,839.32                  |                         |
| 40 05 19 00-2406 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 18,636.91                 | 1,348.97                |
| <i>For Class 52 Rating, Deduct</i>  | -1,825.23                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,513.48                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,749.30                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,968.52                  |                         |
| 40 05 19 00-2407 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 19,081.45                 | 1,353.88                |
| <i>For Class 52 Rating, Deduct</i>  | -1,873.31                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,579.13                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,846.94                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,097.73                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2408 | EA  |     | 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 19,525.96              | 1,358.81             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,921.39              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,644.78               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,944.59               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,226.93               |                      |
| 40 05 19 00-2409 | EA  |     | 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 19,970.48              | 1,363.73             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,969.46              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,710.43               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,042.23               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,356.13               |                      |
| 40 05 19 00-2410 | EA  |     | 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 20,415.00              | 1,368.66             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,017.54              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,776.08               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,139.87               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,485.33               |                      |
| 40 05 19 00-2411 | EA  |     | 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 20,859.52              | 1,373.58             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,065.62              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,841.73               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,237.52               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,614.53               |                      |
| 40 05 19 00-2412 | EA  |     | 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 21,304.05              | 1,378.50             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,113.70              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,907.38               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,335.16               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,743.74               |                      |
| 40 05 19 00-2413 | EA  |     | 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 21,748.57              | 1,383.43             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,161.77              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,973.02               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,432.81               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,872.94               |                      |
| 40 05 19 00-2414 | EA  |     | 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 22,193.09              | 1,388.35             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,209.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,038.67               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,530.45               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,002.14               |                      |
| 40 05 19 00-2415 | EA  |     | 20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 22,637.61              | 1,393.27             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,257.92              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,104.32               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,628.09               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,131.34               |                      |
| 40 05 19 00-2416 | EA  |     | 20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 23,082.14              | 1,398.20             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,306.00              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,169.97               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,725.74               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,260.54               |                      |

**40 05 19 00-2417 24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe** (40 05 19 00-2060)

|                  |    |  |  |          |          |
|------------------|----|--|--|----------|----------|
| 40 05 19 00-2418 | EA |  | 24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,159.00 | 1,437.58 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i> .....   | -657.89  |          |
|                  |    |  | <i>For Class 54 Rating, Add</i> .....  | 923.27   |          |
|                  |    |  | <i>For Class 55 Rating, Add</i> .....  | 1,386.01 |          |
|                  |    |  | <i>For Class 56 Rating, Add</i> .....  | 1,842.76 |          |
| 40 05 19 00-2419 | EA |  | 24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 8,708.32 | 1,442.51 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i> .....   | -717.50  |          |
|                  |    |  | <i>For Class 54 Rating, Add</i> .....  | 1,004.63 |          |
|                  |    |  | <i>For Class 55 Rating, Add</i> .....  | 1,507.02 |          |
|                  |    |  | <i>For Class 56 Rating, Add</i> .....  | 2,002.88 |          |
| 40 05 19 00-2420 | EA |  | 24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,257.63 | 1,447.42 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i> .....   | -777.10  |          |
|                  |    |  | <i>For Class 54 Rating, Add</i> .....  | 1,086.00 |          |
|                  |    |  | <i>For Class 55 Rating, Add</i> .....  | 1,628.03 |          |
|                  |    |  | <i>For Class 56 Rating, Add</i> .....  | 2,163.00 |          |
| 40 05 19 00-2421 | EA |  | 24" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 9,806.95 | 1,452.35 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i> .....   | -836.71  |          |
|                  |    |  | <i>For Class 54 Rating, Add</i> .....  | 1,167.37 |          |
|                  |    |  | <i>For Class 55 Rating, Add</i> .....  | 1,749.04 |          |
|                  |    |  | <i>For Class 56 Rating, Add</i> .....  | 2,323.11 |          |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| Ductile Iron Process Pipe                               | 40 05 19  |

| MINOR   | TOTAL DIRECT | DEMOLITION |
|---|--------------|------------|
| CSI UOM DESCRIPTION   | UNIT COST    | UNIT COST  |
| 40 05 19 00-2422 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 10,356.27    | 1,457.28   |
| For Class 52 Rating, Deduct   | -896.31      |            |
| For Class 54 Rating, Add  | 1,248.74     |            |
| For Class 55 Rating, Add  | 1,870.06     |            |
| For Class 56 Rating, Add  | 2,483.23     |            |
| 40 05 19 00-2423 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 10,905.58    | 1,462.19   |
| For Class 52 Rating, Deduct   | -955.91      |            |
| For Class 54 Rating, Add  | 1,330.10     |            |
| For Class 55 Rating, Add  | 1,991.07     |            |
| For Class 56 Rating, Add  | 2,643.34     |            |
| 40 05 19 00-2424 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 11,454.89    | 1,467.12   |
| For Class 52 Rating, Deduct   | -1,015.52    |            |
| For Class 54 Rating, Add  | 1,411.47     |            |
| For Class 55 Rating, Add  | 2,112.08     |            |
| For Class 56 Rating, Add  | 2,803.46     |            |
| 40 05 19 00-2425 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 12,004.21    | 1,472.04   |
| For Class 52 Rating, Deduct   | -1,075.12    |            |
| For Class 54 Rating, Add  | 1,492.84     |            |
| For Class 55 Rating, Add  | 2,233.10     |            |
| For Class 56 Rating, Add  | 2,963.58     |            |
| 40 05 19 00-2426 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 12,553.52    | 1,476.97   |
| For Class 52 Rating, Deduct   | -1,134.73    |            |
| For Class 54 Rating, Add  | 1,574.21     |            |
| For Class 55 Rating, Add  | 2,354.11     |            |
| For Class 56 Rating, Add  | 3,123.69     |            |
| 40 05 19 00-2427 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 13,102.84    | 1,481.89   |
| For Class 52 Rating, Deduct   | -1,194.33    |            |
| For Class 54 Rating, Add  | 1,655.58     |            |
| For Class 55 Rating, Add  | 2,475.12     |            |
| For Class 56 Rating, Add  | 3,283.81     |            |
| 40 05 19 00-2428 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 13,652.15    | 1,486.81   |
| For Class 52 Rating, Deduct   | -1,253.93    |            |
| For Class 54 Rating, Add  | 1,736.94     |            |
| For Class 55 Rating, Add  | 2,596.13     |            |
| For Class 56 Rating, Add  | 3,443.92     |            |
| 40 05 19 00-2429 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 14,201.46    | 1,491.74   |
| For Class 52 Rating, Deduct   | -1,313.54    |            |
| For Class 54 Rating, Add  | 1,818.31     |            |
| For Class 55 Rating, Add  | 2,717.15     |            |
| For Class 56 Rating, Add  | 3,604.04     |            |
| 40 05 19 00-2430 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 14,750.78    | 1,496.66   |
| For Class 52 Rating, Deduct   | -1,373.14    |            |
| For Class 54 Rating, Add  | 1,899.68     |            |
| For Class 55 Rating, Add  | 2,838.16     |            |
| For Class 56 Rating, Add  | 3,764.15     |            |
| 40 05 19 00-2431 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 15,300.10    | 1,501.58   |
| For Class 52 Rating, Deduct   | -1,432.75    |            |
| For Class 54 Rating, Add  | 1,981.05     |            |
| For Class 55 Rating, Add  | 2,959.17     |            |
| For Class 56 Rating, Add  | 3,924.27     |            |
| 40 05 19 00-2432 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 15,849.40    | 1,506.51   |
| For Class 52 Rating, Deduct   | -1,492.35    |            |
| For Class 54 Rating, Add  | 2,062.41     |            |
| For Class 55 Rating, Add  | 3,080.18     |            |
| For Class 56 Rating, Add  | 4,084.38     |            |
| 40 05 19 00-2433 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 16,398.73    | 1,511.43   |
| For Class 52 Rating, Deduct   | -1,551.95    |            |
| For Class 54 Rating, Add  | 2,143.78     |            |
| For Class 55 Rating, Add  | 3,201.20     |            |
| For Class 56 Rating, Add  | 4,244.50     |            |
| 40 05 19 00-2434 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 16,948.03    | 1,516.36   |
| For Class 52 Rating, Deduct   | -1,611.56    |            |
| For Class 54 Rating, Add  | 2,225.15     |            |
| For Class 55 Rating, Add  | 3,322.21     |            |
| For Class 56 Rating, Add  | 4,404.62     |            |
| 40 05 19 00-2435 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron |              |            |
| Pipe  | 17,497.36    | 1,521.27   |
| For Class 52 Rating, Deduct   | -1,671.16    |            |
| For Class 54 Rating, Add  | 2,306.52     |            |
| For Class 55 Rating, Add  | 3,443.22     |            |
| For Class 56 Rating, Add  | 4,564.73     |            |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2436 | EA  |     | 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 18,046.66                 | 1,526.20                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,730.77                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,387.89                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,564.23                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,724.85                  |                         |
| 40 05 19 00-2437 | EA  |     | 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 18,595.98                 | 1,531.13                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,790.37                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,469.25                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,685.25                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,884.97                  |                         |
| 40 05 19 00-2438 | EA  |     | 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 19,145.30                 | 1,536.04                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,849.97                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,550.62                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,806.26                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,045.08                  |                         |
| 40 05 19 00-2439 | EA  |     | 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 19,694.61                 | 1,540.97                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,909.58                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,631.99                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,927.27                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,205.20                  |                         |
| 40 05 19 00-2440 | EA  |     | 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 20,243.92                 | 1,545.89                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,969.18                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,713.36                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,048.28                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,365.31                  |                         |
| 40 05 19 00-2441 | EA  |     | 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 20,793.24                 | 1,550.82                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,028.79                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,794.72                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,169.30                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,525.43                  |                         |
| 40 05 19 00-2442 | EA  |     | 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 21,342.55                 | 1,555.74                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,088.39                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,876.09                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,290.31                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,685.54                  |                         |
| 40 05 19 00-2443 | EA  |     | 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 21,891.87                 | 1,560.66                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,148.00                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,957.46                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,411.32                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,845.66                  |                         |
| 40 05 19 00-2444 | EA  |     | 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 22,441.18                 | 1,565.59                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,207.60                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,038.83                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,532.34                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,005.77                  |                         |
| 40 05 19 00-2445 | EA  |     | 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 22,990.50                 | 1,570.51                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,267.20                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,120.20                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,653.35                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,165.89                  |                         |
| 40 05 19 00-2446 | EA  |     | 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 23,539.81                 | 1,575.43                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,326.81                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,201.56                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,774.36                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,326.01                  |                         |
| 40 05 19 00-2447 | EA  |     | 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 24,215.93                 | 1,664.05                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,386.41                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,284.45                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,898.42                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,490.69                  |                         |
| 40 05 19 00-2448 | EA  |     | 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 24,765.25                 | 1,668.97                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,446.02                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,365.82                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,019.43                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,650.80                  |                         |
| 40 05 19 00-2449 | EA  |     | 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 25,314.56                 | 1,673.90                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,505.62                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,447.19                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,140.44                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,810.92                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2450 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 25,863.88                 | 1,678.82                |
| For Class 52 Rating, Deduct  | -2,565.22                 |                         |
| For Class 54 Rating, Add   | 3,528.56                  |                         |
| For Class 55 Rating, Add   | 5,261.45                  |                         |
| For Class 56 Rating, Add   | 6,971.03                  |                         |
| 40 05 19 00-2451 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 26,413.20                 | 1,683.74                |
| For Class 52 Rating, Deduct  | -2,624.83                 |                         |
| For Class 54 Rating, Add   | 3,609.92                  |                         |
| For Class 55 Rating, Add   | 5,382.47                  |                         |
| For Class 56 Rating, Add   | 7,131.15                  |                         |
| 40 05 19 00-2452 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 26,962.50                 | 1,688.67                |
| For Class 52 Rating, Deduct  | -2,684.43                 |                         |
| For Class 54 Rating, Add   | 3,691.29                  |                         |
| For Class 55 Rating, Add   | 5,503.48                  |                         |
| For Class 56 Rating, Add   | 7,291.27                  |                         |
| 40 05 19 00-2453 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 27,511.83                 | 1,693.59                |
| For Class 52 Rating, Deduct  | -2,744.04                 |                         |
| For Class 54 Rating, Add   | 3,772.66                  |                         |
| For Class 55 Rating, Add   | 5,624.49                  |                         |
| For Class 56 Rating, Add   | 7,451.38                  |                         |
| 40 05 19 00-2454 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 28,061.13                 | 1,698.51                |
| For Class 52 Rating, Deduct  | -2,803.64                 |                         |
| For Class 54 Rating, Add   | 3,854.03                  |                         |
| For Class 55 Rating, Add   | 5,745.51                  |                         |
| For Class 56 Rating, Add   | 7,611.50                  |                         |
| 40 05 19 00-2455 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 28,610.45                 | 1,703.43                |
| For Class 52 Rating, Deduct  | -2,863.24                 |                         |
| For Class 54 Rating, Add   | 3,935.40                  |                         |
| For Class 55 Rating, Add   | 5,866.52                  |                         |
| For Class 56 Rating, Add   | 7,771.61                  |                         |
| <b>40 05 19 00-2456 30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                           |                         |
| 40 05 19 00-2457 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 12,540.41                 | 2,028.37                |
| For Class 52 Rating, Deduct  | -1,041.38                 |                         |
| For Class 54 Rating, Add   | 1,456.95                  |                         |
| For Class 55 Rating, Add   | 2,184.93                  |                         |
| For Class 56 Rating, Add   | 2,903.44                  |                         |
| 40 05 19 00-2458 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 13,324.88                 | 2,033.29                |
| For Class 52 Rating, Deduct  | -1,126.85                 |                         |
| For Class 54 Rating, Add   | 1,573.59                  |                         |
| For Class 55 Rating, Add   | 2,358.38                  |                         |
| For Class 56 Rating, Add   | 3,132.93                  |                         |
| 40 05 19 00-2459 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 14,109.33                 | 2,038.22                |
| For Class 52 Rating, Deduct  | -1,212.32                 |                         |
| For Class 54 Rating, Add   | 1,690.23                  |                         |
| For Class 55 Rating, Add   | 2,531.83                  |                         |
| For Class 56 Rating, Add   | 3,362.41                  |                         |
| 40 05 19 00-2460 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 14,893.80                 | 2,043.14                |
| For Class 52 Rating, Deduct  | -1,297.79                 |                         |
| For Class 54 Rating, Add   | 1,806.87                  |                         |
| For Class 55 Rating, Add   | 2,705.28                  |                         |
| For Class 56 Rating, Add   | 3,591.89                  |                         |
| 40 05 19 00-2461 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 15,678.25                 | 2,048.06                |
| For Class 52 Rating, Deduct  | -1,383.26                 |                         |
| For Class 54 Rating, Add   | 1,923.51                  |                         |
| For Class 55 Rating, Add   | 2,878.73                  |                         |
| For Class 56 Rating, Add   | 3,821.38                  |                         |
| 40 05 19 00-2462 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 16,462.71                 | 2,052.98                |
| For Class 52 Rating, Deduct  | -1,468.73                 |                         |
| For Class 54 Rating, Add   | 2,040.15                  |                         |
| For Class 55 Rating, Add   | 3,052.18                  |                         |
| For Class 56 Rating, Add   | 4,050.86                  |                         |
| 40 05 19 00-2463 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 17,247.18                 | 2,057.91                |
| For Class 52 Rating, Deduct  | -1,554.20                 |                         |
| For Class 54 Rating, Add   | 2,156.79                  |                         |
| For Class 55 Rating, Add   | 3,225.63                  |                         |
| For Class 56 Rating, Add   | 4,280.34                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2464 | EA  |     | 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 18,031.63                 | 2,062.83                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,639.67                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,273.43                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,399.08                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,509.83                  |                         |
| 40 05 19 00-2465 | EA  |     | 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 18,816.09                 | 2,067.75                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,725.14                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,390.07                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,572.53                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,739.31                  |                         |
| 40 05 19 00-2466 | EA  |     | 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 19,600.54                 | 2,072.68                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,810.61                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,506.70                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,745.98                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,968.79                  |                         |
| 40 05 19 00-2467 | EA  |     | 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 20,385.00                 | 2,077.60                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,896.08                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,623.34                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,919.43                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,198.27                  |                         |
| 40 05 19 00-2468 | EA  |     | 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 21,169.46                 | 2,082.52                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,981.55                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,739.98                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,092.88                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,427.76                  |                         |
| 40 05 19 00-2469 | EA  |     | 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 21,953.92                 | 2,087.45                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,067.02                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,856.62                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,266.33                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,657.24                  |                         |
| 40 05 19 00-2470 | EA  |     | 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 22,738.38                 | 2,092.37                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,152.49                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,973.26                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,439.78                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,886.72                  |                         |
| 40 05 19 00-2471 | EA  |     | 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 23,522.84                 | 2,097.30                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,237.96                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,089.90                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,613.23                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,116.21                  |                         |
| 40 05 19 00-2472 | EA  |     | 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 24,307.30                 | 2,102.21                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,323.43                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,206.54                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,786.68                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,345.69                  |                         |
| 40 05 19 00-2473 | EA  |     | 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 25,091.75                 | 2,107.14                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,408.90                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,323.18                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,960.13                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,575.18                  |                         |
| 40 05 19 00-2474 | EA  |     | 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 25,876.22                 | 2,112.07                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,494.37                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,439.82                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,133.58                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,804.66                  |                         |
| 40 05 19 00-2475 | EA  |     | 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 26,660.67                 | 2,116.98                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,579.84                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,556.46                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,307.03                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 7,034.14                  |                         |
| 40 05 19 00-2476 | EA  |     | 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 27,445.14                 | 2,121.91                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,665.31                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,673.10                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,480.48                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 7,263.63                  |                         |
| 40 05 19 00-2477 | EA  |     | 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 28,229.59                 | 2,126.83                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,750.78                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,789.74                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,653.93                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 7,493.11                  |                         |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| 40 05   | 40        |
| <b>Ductile Iron Process Pipe 40 05 19</b>               |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2478 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 29,014.05                 | 2,131.76                |
| <i>For Class 52 Rating, Deduct</i>  | -2,836.25                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,906.38                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,827.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 7,722.59                  |                         |
| 40 05 19 00-2479 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 29,798.52                 | 2,136.68                |
| <i>For Class 52 Rating, Deduct</i>  | -2,921.72                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,023.02                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,000.83                  |                         |
| <i>For Class 56 Rating, Add</i>   | 7,952.08                  |                         |
| 40 05 19 00-2480 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 30,582.97                 | 2,141.60                |
| <i>For Class 52 Rating, Deduct</i>  | -3,007.19                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,139.66                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,174.28                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,181.56                  |                         |
| 40 05 19 00-2481 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 31,367.43                 | 2,146.53                |
| <i>For Class 52 Rating, Deduct</i>  | -3,092.66                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,256.30                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,347.73                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,411.04                  |                         |
| 40 05 19 00-2482 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 32,151.89                 | 2,151.45                |
| <i>For Class 52 Rating, Deduct</i>  | -3,178.13                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,372.94                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,521.18                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,640.53                  |                         |
| 40 05 19 00-2483 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 32,936.35                 | 2,156.37                |
| <i>For Class 52 Rating, Deduct</i>  | -3,263.60                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,489.57                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,694.63                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,870.01                  |                         |
| 40 05 19 00-2484 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 33,720.81                 | 2,161.30                |
| <i>For Class 52 Rating, Deduct</i>  | -3,349.07                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,606.21                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,868.08                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,099.49                  |                         |
| 40 05 19 00-2485 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 34,505.27                 | 2,166.22                |
| <i>For Class 52 Rating, Deduct</i>  | -3,434.54                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,722.85                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,041.53                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,328.98                  |                         |
| 40 05 19 00-2486 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 35,289.73                 | 2,171.14                |
| <i>For Class 52 Rating, Deduct</i>  | -3,520.01                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,839.49                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,214.98                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,558.46                  |                         |
| 40 05 19 00-2487 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 36,074.19                 | 2,176.06                |
| <i>For Class 52 Rating, Deduct</i>  | -3,605.48                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,956.13                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,388.43                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,787.94                  |                         |
| 40 05 19 00-2488 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 36,858.65                 | 2,180.99                |
| <i>For Class 52 Rating, Deduct</i>  | -3,690.95                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,072.77                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,561.88                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,017.43                 |                         |
| 40 05 19 00-2489 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 37,643.10                 | 2,185.92                |
| <i>For Class 52 Rating, Deduct</i>  | -3,776.42                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,189.41                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,735.33                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,246.91                 |                         |
| 40 05 19 00-2490 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 38,427.57                 | 2,190.83                |
| <i>For Class 52 Rating, Deduct</i>  | -3,861.89                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,306.05                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,908.78                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,476.40                 |                         |
| 40 05 19 00-2491 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 39,212.02                 | 2,195.76                |
| <i>For Class 52 Rating, Deduct</i>  | -3,947.36                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,422.69                  |                         |
| <i>For Class 55 Rating, Add</i>   | 8,082.23                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,705.88                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2492 |     | <b>36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                           |                         |
| 40 05 19 00-2493 | EA  | 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 17,391.63                 | 2,569.92                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,484.76                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,071.40                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,103.46                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,122.03                  |                         |
| 40 05 19 00-2494 | EA  | 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 18,441.91                 | 2,574.84                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,599.47                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,227.91                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,336.19                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,429.93                  |                         |
| 40 05 19 00-2495 | EA  | 36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 19,492.19                 | 2,579.77                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,714.18                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,384.42                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,568.92                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,737.83                  |                         |
| 40 05 19 00-2496 | EA  | 36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 20,542.46                 | 2,584.70                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,828.89                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,540.93                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,801.64                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 5,045.73                  |                         |
| 40 05 19 00-2497 | EA  | 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 21,592.74                 | 2,589.61                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,943.60                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,697.45                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,034.37                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 5,353.63                  |                         |
| 40 05 19 00-2498 | EA  | 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 22,643.01                 | 2,594.54                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,058.31                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,853.96                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,267.10                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 5,661.53                  |                         |
| 40 05 19 00-2499 | EA  | 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 23,693.29                 | 2,599.46                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,173.02                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,010.47                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,499.83                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 5,969.43                  |                         |
| 40 05 19 00-2500 | EA  | 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 24,743.56                 | 2,604.39                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,287.73                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,166.98                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,732.55                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,277.33                  |                         |
| 40 05 19 00-2501 | EA  | 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 25,793.84                 | 2,609.31                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,402.44                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,323.49                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,965.28                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,585.23                  |                         |
| 40 05 19 00-2502 | EA  | 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 26,844.11                 | 2,614.23                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,517.15                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,480.00                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,198.01                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 6,893.12                  |                         |
| 40 05 19 00-2503 | EA  | 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 27,894.39                 | 2,619.16                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,631.86                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,636.52                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,430.73                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,201.02                  |                         |
| 40 05 19 00-2504 | EA  | 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 28,944.66                 | 2,624.08                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,746.57                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,793.03                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,663.46                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,508.92                  |                         |
| 40 05 19 00-2505 | EA  | 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 29,994.93                 | 2,629.00                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,861.28                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 3,949.54                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 5,896.19                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 7,816.82                  |                         |
| 40 05 19 00-2506 | EA  | 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                          | 31,045.21                 | 2,633.93                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -2,975.99                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 4,106.05                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 6,128.91                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 8,124.72                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2507 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 32,095.48                 | 2,638.85                |
| For Class 52 Rating, Deduct   | -3,090.70                 |                         |
| For Class 54 Rating, Add  | 4,262.56                  |                         |
| For Class 55 Rating, Add  | 6,361.64                  |                         |
| For Class 56 Rating, Add  | 8,432.62                  |                         |
| 40 05 19 00-2508 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 33,145.76                 | 2,643.77                |
| For Class 52 Rating, Deduct   | -3,205.40                 |                         |
| For Class 54 Rating, Add  | 4,419.07                  |                         |
| For Class 55 Rating, Add  | 6,594.37                  |                         |
| For Class 56 Rating, Add  | 8,740.52                  |                         |
| 40 05 19 00-2509 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 34,196.03                 | 2,648.69                |
| For Class 52 Rating, Deduct   | -3,320.11                 |                         |
| For Class 54 Rating, Add  | 4,575.59                  |                         |
| For Class 55 Rating, Add  | 6,827.09                  |                         |
| For Class 56 Rating, Add  | 9,048.42                  |                         |
| 40 05 19 00-2510 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 35,246.30                 | 2,653.62                |
| For Class 52 Rating, Deduct   | -3,434.82                 |                         |
| For Class 54 Rating, Add  | 4,732.10                  |                         |
| For Class 55 Rating, Add  | 7,059.82                  |                         |
| For Class 56 Rating, Add  | 9,356.32                  |                         |
| 40 05 19 00-2511 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 36,296.59                 | 2,658.54                |
| For Class 52 Rating, Deduct   | -3,549.53                 |                         |
| For Class 54 Rating, Add  | 4,888.61                  |                         |
| For Class 55 Rating, Add  | 7,292.55                  |                         |
| For Class 56 Rating, Add  | 9,664.22                  |                         |
| 40 05 19 00-2512 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 37,346.86                 | 2,663.46                |
| For Class 52 Rating, Deduct   | -3,664.24                 |                         |
| For Class 54 Rating, Add  | 5,045.12                  |                         |
| For Class 55 Rating, Add  | 7,525.28                  |                         |
| For Class 56 Rating, Add  | 9,972.12                  |                         |
| 40 05 19 00-2513 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 38,397.13                 | 2,668.39                |
| For Class 52 Rating, Deduct   | -3,778.95                 |                         |
| For Class 54 Rating, Add  | 5,201.63                  |                         |
| For Class 55 Rating, Add  | 7,758.00                  |                         |
| For Class 56 Rating, Add  | 10,280.01                 |                         |
| 40 05 19 00-2514 EA 36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 39,447.41                 | 2,673.31                |
| For Class 52 Rating, Deduct   | -3,893.66                 |                         |
| For Class 54 Rating, Add  | 5,358.15                  |                         |
| For Class 55 Rating, Add  | 7,990.73                  |                         |
| For Class 56 Rating, Add  | 10,587.91                 |                         |
| 40 05 19 00-2515 EA 36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 40,497.68                 | 2,678.24                |
| For Class 52 Rating, Deduct   | -4,008.37                 |                         |
| For Class 54 Rating, Add  | 5,514.66                  |                         |
| For Class 55 Rating, Add  | 8,223.45                  |                         |
| For Class 56 Rating, Add  | 10,895.81                 |                         |
| 40 05 19 00-2516 EA 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 41,547.96                 | 2,683.15                |
| For Class 52 Rating, Deduct   | -4,123.08                 |                         |
| For Class 54 Rating, Add  | 5,671.17                  |                         |
| For Class 55 Rating, Add  | 8,456.18                  |                         |
| For Class 56 Rating, Add  | 11,203.71                 |                         |
| 40 05 19 00-2517 EA 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 42,598.23                 | 2,688.08                |
| For Class 52 Rating, Deduct   | -4,237.79                 |                         |
| For Class 54 Rating, Add  | 5,827.68                  |                         |
| For Class 55 Rating, Add  | 8,688.91                  |                         |
| For Class 56 Rating, Add  | 11,511.61                 |                         |
| 40 05 19 00-2518 EA 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 43,648.51                 | 2,693.01                |
| For Class 52 Rating, Deduct   | -4,352.50                 |                         |
| For Class 54 Rating, Add  | 5,984.19                  |                         |
| For Class 55 Rating, Add  | 8,921.64                  |                         |
| For Class 56 Rating, Add  | 11,819.51                 |                         |
| 40 05 19 00-2519 EA 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 44,698.78                 | 2,697.92                |
| For Class 52 Rating, Deduct   | -4,467.21                 |                         |
| For Class 54 Rating, Add  | 6,140.70                  |                         |
| For Class 55 Rating, Add  | 9,154.36                  |                         |
| For Class 56 Rating, Add  | 12,127.41                 |                         |
| 40 05 19 00-2520 EA 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 45,749.06                 | 2,702.85                |
| For Class 52 Rating, Deduct   | -4,581.92                 |                         |
| For Class 54 Rating, Add  | 6,297.22                  |                         |
| For Class 55 Rating, Add  | 9,387.09                  |                         |
| For Class 56 Rating, Add  | 12,435.31                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2521 | EA  |     | 36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 46,799.32              | 2,707.77             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -4,696.63              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 6,453.73               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 9,619.82               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 12,743.21              |                      |
| 40 05 19 00-2522 | EA  |     | 36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 47,849.61              | 2,712.70             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -4,811.34              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 6,610.24               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 9,852.54               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 13,051.11              |                      |
| 40 05 19 00-2523 | EA  |     | 36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 48,899.87              | 2,717.62             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -4,926.05              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 6,766.75               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,085.27              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 13,359.00              |                      |
| 40 05 19 00-2524 | EA  |     | 36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 49,950.16              | 2,722.54             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,040.76              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 6,923.26               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,318.00              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 13,666.90              |                      |
| 40 05 19 00-2525 | EA  |     | 36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 51,000.43              | 2,727.47             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,155.47              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,079.78               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,550.72              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 13,974.80              |                      |
| 40 05 19 00-2526 | EA  |     | 36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 52,050.70              | 2,732.39             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,270.18              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,236.29               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,783.45              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 14,282.70              |                      |
| 40 05 19 00-2527 | EA  |     | 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                   | 53,100.99              | 2,737.31             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,384.89              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,392.80               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,016.18              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 14,590.60              |                      |
| 40 05 19 00-2528 |     |     | <b>42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                        |                      |
| 40 05 19 00-2529 | EA  |     | 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 22,914.76              | 3,239.49             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,980.71              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,759.87               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,133.24               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,488.60               |                      |
| 40 05 19 00-2530 | EA  |     | 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 24,455.78              | 3,244.40             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,149.40              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,989.99               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,475.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,941.27               |                      |
| 40 05 19 00-2531 | EA  |     | 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 25,984.01              | 3,249.33             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,316.69              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,218.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,814.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,390.17               |                      |
| 40 05 19 00-2532 | EA  |     | 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 27,527.57              | 3,254.25             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,485.66              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,448.70               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,157.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,843.59               |                      |
| 40 05 19 00-2533 | EA  |     | 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 29,060.92              | 3,259.18             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,653.50              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,677.67               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,497.89               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 7,293.99               |                      |
| 40 05 19 00-2534 | EA  |     | 42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                    | 30,609.59              | 3,264.09             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,823.04              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,908.95               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,841.76               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 7,748.92               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2535 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 32,142.94                 | 3,269.02                |
| <i>For Class 52 Rating, Deduct</i>  | -2,990.89                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,137.92                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,182.22                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,199.32                  |                         |
| 40 05 19 00-2536 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 33,694.17                 | 3,273.95                |
| <i>For Class 52 Rating, Deduct</i>  | -3,160.70                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,369.57                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,526.66                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,655.01                  |                         |
| 40 05 19 00-2537 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 35,232.63                 | 3,278.86                |
| <i>For Class 52 Rating, Deduct</i>  | -3,329.11                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,599.31                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,868.25                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,106.92                  |                         |
| 40 05 19 00-2538 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 36,783.86                 | 3,283.79                |
| <i>For Class 52 Rating, Deduct</i>  | -3,498.93                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,830.97                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,212.69                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,562.60                  |                         |
| 40 05 19 00-2539 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 38,322.32                 | 3,288.71                |
| <i>For Class 52 Rating, Deduct</i>  | -3,667.34                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,060.71                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,554.28                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,014.51                 |                         |
| 40 05 19 00-2540 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 39,876.11                 | 3,293.64                |
| <i>For Class 52 Rating, Deduct</i>  | -3,837.43                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,292.75                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,899.29                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,470.95                 |                         |
| 40 05 19 00-2541 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 41,414.57                 | 3,298.56                |
| <i>For Class 52 Rating, Deduct</i>  | -4,005.84                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,522.49                  |                         |
| <i>For Class 55 Rating, Add</i>   | 8,240.88                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,922.86                 |                         |
| 40 05 19 00-2542 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 42,958.14                 | 3,303.48                |
| <i>For Class 52 Rating, Deduct</i>  | -4,174.81                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,752.99                  |                         |
| <i>For Class 55 Rating, Add</i>   | 8,583.61                  |                         |
| <i>For Class 56 Rating, Add</i>   | 11,376.28                 |                         |
| 40 05 19 00-2543 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 44,509.36                 | 3,308.41                |
| <i>For Class 52 Rating, Deduct</i>  | -4,344.63                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,984.65                  |                         |
| <i>For Class 55 Rating, Add</i>   | 8,928.05                  |                         |
| <i>For Class 56 Rating, Add</i>   | 11,831.96                 |                         |
| 40 05 19 00-2544 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 46,050.38                 | 3,313.33                |
| <i>For Class 52 Rating, Deduct</i>  | -4,513.32                 |                         |
| <i>For Class 54 Rating, Add</i>   | 6,214.77                  |                         |
| <i>For Class 55 Rating, Add</i>   | 9,270.21                  |                         |
| <i>For Class 56 Rating, Add</i>   | 12,284.63                 |                         |
| 40 05 19 00-2545 EA 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 47,609.28                 | 3,318.25                |
| <i>For Class 52 Rating, Deduct</i>  | -4,683.98                 |                         |
| <i>For Class 54 Rating, Add</i>   | 6,447.58                  |                         |
| <i>For Class 55 Rating, Add</i>   | 9,616.37                  |                         |
| <i>For Class 56 Rating, Add</i>   | 12,742.58                 |                         |
| 40 05 19 00-2546 EA 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe  | 49,152.86                 | 3,323.18                |
| <i>For Class 52 Rating, Deduct</i>  | -4,852.95                 |                         |
| <i>For Class 54 Rating, Add</i>   | 6,678.08                  |                         |
| <i>For Class 55 Rating, Add</i>   | 9,959.10                  |                         |
| <i>For Class 56 Rating, Add</i>   | 13,196.00                 |                         |
| 40 05 19 00-2547 EA 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 50,709.20                 | 3,328.10                |
| <i>For Class 52 Rating, Deduct</i>  | -5,023.33                 |                         |
| <i>For Class 54 Rating, Add</i>   | 6,910.50                  |                         |
| <i>For Class 55 Rating, Add</i>   | 10,304.68                 |                         |
| <i>For Class 56 Rating, Add</i>   | 13,653.19                 |                         |
| 40 05 19 00-2548 EA 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 52,250.20                 | 3,333.02                |
| <i>For Class 52 Rating, Deduct</i>  | -5,192.02                 |                         |
| <i>For Class 54 Rating, Add</i>   | 7,140.63                  |                         |
| <i>For Class 55 Rating, Add</i>   | 10,646.84                 |                         |
| <i>For Class 56 Rating, Add</i>   | 14,105.85                 |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2549 | EA  |     | 42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 53,811.67                 | 3,337.94                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,362.96                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,373.82                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,993.56                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 14,564.55                 |                         |
| 40 05 19 00-2550 | EA  |     | 42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 55,355.23                 | 3,342.87                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,531.93                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,604.32                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,336.29                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 15,017.97                 |                         |
| 40 05 19 00-2551 | EA  |     | 42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 56,911.58                 | 3,347.80                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,702.31                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,836.74                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,681.87                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 15,475.16                 |                         |
| 40 05 19 00-2552 | EA  |     | 42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 58,455.15                 | 3,352.71                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,871.28                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,067.25                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,024.60                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 15,928.58                 |                         |
| 40 05 19 00-2553 | EA  |     | 42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 60,016.61                 | 3,357.64                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,042.22                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,300.44                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,371.33                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 16,387.28                 |                         |
| 40 05 19 00-2554 | EA  |     | 42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 61,560.18                 | 3,362.56                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,211.19                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,530.94                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,714.05                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 16,840.70                 |                         |
| 40 05 19 00-2555 | EA  |     | 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 63,116.52                 | 3,367.49                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,381.57                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,763.37                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,059.64                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 17,297.89                 |                         |
| 40 05 19 00-2556 | EA  |     | 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 64,662.65                 | 3,372.41                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,550.82                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,994.26                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,402.94                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 17,752.07                 |                         |
| 40 05 19 00-2557 | EA  |     | 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 65,914.84                 | 3,377.33                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,687.74                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,181.06                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,680.69                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 18,119.53                 |                         |
| 40 05 19 00-2558 | EA  |     | 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 67,767.67                 | 3,382.26                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,890.73                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,457.95                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,092.39                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 18,664.18                 |                         |
| 40 05 19 00-2559 | EA  |     | 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 69,311.23                 | 3,387.17                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,059.71                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,688.46                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,435.12                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 19,117.60                 |                         |
| 40 05 19 00-2560 | EA  |     | 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 70,870.14                 | 3,392.10                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,230.36                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,921.26                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,781.27                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 19,575.55                 |                         |
| 40 05 19 00-2561 | EA  |     | 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 72,416.26                 | 3,397.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,399.62                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,152.15                 |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 15,124.57                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 20,029.72                 |                         |
| 40 05 19 00-2562 | EA  |     | 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 73,977.73                 | 3,401.95                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,570.56                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,385.34                 |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 15,471.29                 |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 20,488.42                 |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2563 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                      | 75,518.74                 | 3,406.87                |
| For Class 52 Rating, Deduct  | -7,739.25                 |                         |
| For Class 54 Rating, Add   | 10,615.46                 |                         |
| For Class 55 Rating, Add   | 15,813.45                 |                         |
| For Class 56 Rating, Add   | 20,941.09                 |                         |
| <b>40 05 19 00-2564 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small> |                           |                         |
| 40 05 19 00-2565 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 28,745.39                 | 4,071.51                |
| For Class 52 Rating, Deduct  | -2,483.41                 |                         |
| For Class 54 Rating, Add   | 3,460.49                  |                         |
| For Class 55 Rating, Add   | 5,182.60                  |                         |
| For Class 56 Rating, Add   | 6,882.13                  |                         |
| 40 05 19 00-2566 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 30,945.83                 | 4,076.43                |
| For Class 52 Rating, Deduct  | -2,724.64                 |                         |
| For Class 54 Rating, Add   | 3,789.53                  |                         |
| For Class 55 Rating, Add   | 5,671.81                  |                         |
| For Class 56 Rating, Add   | 7,529.33                  |                         |
| 40 05 19 00-2567 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 33,151.38                 | 4,081.35                |
| For Class 52 Rating, Deduct  | -2,966.43                 |                         |
| For Class 54 Rating, Add   | 4,119.33                  |                         |
| For Class 55 Rating, Add   | 6,162.17                  |                         |
| For Class 56 Rating, Add   | 8,178.03                  |                         |
| 40 05 19 00-2568 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 35,382.49                 | 4,086.28                |
| For Class 52 Rating, Deduct  | -3,211.03                 |                         |
| For Class 54 Rating, Add   | 4,452.97                  |                         |
| For Class 55 Rating, Add   | 6,658.22                  |                         |
| For Class 56 Rating, Add   | 8,834.28                  |                         |
| 40 05 19 00-2569 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 37,605.92                 | 4,091.20                |
| For Class 52 Rating, Deduct  | -3,454.79                 |                         |
| For Class 54 Rating, Add   | 4,785.46                  |                         |
| For Class 55 Rating, Add   | 7,152.56                  |                         |
| For Class 56 Rating, Add   | 9,488.26                  |                         |
| 40 05 19 00-2570 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 39,834.49                 | 4,096.12                |
| For Class 52 Rating, Deduct  | -3,699.11                 |                         |
| For Class 54 Rating, Add   | 5,118.71                  |                         |
| For Class 55 Rating, Add   | 7,648.05                  |                         |
| For Class 56 Rating, Add   | 10,143.76                 |                         |
| 40 05 19 00-2571 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 42,078.37                 | 4,101.04                |
| For Class 52 Rating, Deduct  | -3,945.11                 |                         |
| For Class 54 Rating, Add   | 5,454.26                  |                         |
| For Class 55 Rating, Add   | 8,146.95                  |                         |
| For Class 56 Rating, Add   | 10,803.77                 |                         |
| 40 05 19 00-2572 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 44,317.16                 | 4,105.97                |
| For Class 52 Rating, Deduct  | -4,190.56                 |                         |
| For Class 54 Rating, Add   | 5,789.05                  |                         |
| For Class 55 Rating, Add   | 8,644.71                  |                         |
| For Class 56 Rating, Add   | 11,462.28                 |                         |
| 40 05 19 00-2573 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 46,553.38                 | 4,110.90                |
| For Class 52 Rating, Deduct  | -4,435.72                 |                         |
| For Class 54 Rating, Add   | 6,123.46                  |                         |
| For Class 55 Rating, Add   | 9,141.91                  |                         |
| For Class 56 Rating, Add   | 12,120.03                 |                         |
| 40 05 19 00-2574 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 48,812.60                 | 4,115.81                |
| For Class 52 Rating, Deduct  | -4,683.42                 |                         |
| For Class 54 Rating, Add   | 6,461.31                  |                         |
| For Class 55 Rating, Add   | 9,644.23                  |                         |
| For Class 56 Rating, Add   | 12,784.57                 |                         |
| 40 05 19 00-2575 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 51,056.50                 | 4,120.74                |
| For Class 52 Rating, Deduct  | -4,929.42                 |                         |
| For Class 54 Rating, Add   | 6,796.87                  |                         |
| For Class 55 Rating, Add   | 10,143.13                 |                         |
| For Class 56 Rating, Add   | 13,444.59                 |                         |
| 40 05 19 00-2576 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                       | 53,318.27                 | 4,125.66                |
| For Class 52 Rating, Deduct  | -5,177.40                 |                         |
| For Class 54 Rating, Add   | 7,135.10                  |                         |
| For Class 55 Rating, Add   | 10,646.03                 |                         |
| For Class 56 Rating, Add   | 14,109.88                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2577 | EA  |     | 48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 55,567.27              | 4,130.59             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,423.97              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,471.42               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,146.07              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 14,771.40              |                      |
| 40 05 19 00-2578 | EA  |     | 48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 57,818.83              | 4,135.51             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,670.82              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,808.13               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,646.68              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 15,433.68              |                      |
| 40 05 19 00-2579 | EA  |     | 48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 60,085.72              | 4,140.43             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,919.36              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,147.13               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,150.71              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 16,100.48              |                      |
| 40 05 19 00-2580 | EA  |     | 48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 62,342.39              | 4,145.36             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,166.77              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,484.60               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,652.47              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 16,764.27              |                      |
| 40 05 19 00-2581 | EA  |     | 48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 64,596.50              | 4,150.27             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,413.90              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,821.69               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,153.65              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 17,427.30              |                      |
| 40 05 19 00-2582 | EA  |     | 48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 66,868.51              | 4,155.20             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,663.00              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,161.46               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,658.82              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 18,095.61              |                      |
| 40 05 19 00-2583 | EA  |     | 48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 69,127.73              | 4,160.13             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,910.70              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,499.32               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,161.14              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 18,760.15              |                      |
| 40 05 19 00-2584 | EA  |     | 48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 71,384.40              | 4,165.05             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,158.11              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,836.79               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,662.90              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 19,423.93              |                      |
| 40 05 19 00-2585 | EA  |     | 48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 73,658.95              | 4,169.97             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,407.49              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,176.94              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 15,168.64              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 20,092.99              |                      |
| 40 05 19 00-2586 | EA  |     | 48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 75,923.30              | 4,174.89             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,655.75              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,515.56              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 15,672.10              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 20,759.04              |                      |
| 40 05 19 00-2587 | EA  |     | 48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 78,182.52              | 4,179.82             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,903.44              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,853.42              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 16,174.43              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 21,423.58              |                      |
| 40 05 19 00-2588 | EA  |     | 48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 80,459.64              | 4,184.74             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -8,153.10              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 11,193.95              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 16,680.74              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 22,093.40              |                      |
| 40 05 19 00-2589 | EA  |     | 48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 82,723.98              | 4,189.66             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -8,401.36              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 11,532.58              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 17,184.20              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 22,759.45              |                      |
| 40 05 19 00-2590 | EA  |     | 48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 84,985.75              | 4,194.59             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -8,649.34              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 11,870.81              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 17,687.09              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 23,424.74              |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2591 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 87,265.44                 | 4,199.51                |
| For Class 52 Rating, Deduct  | -8,899.28                 |                         |
| For Class 54 Rating, Add   | 12,211.74                 |                         |
| For Class 55 Rating, Add   | 18,193.98                 |                         |
| For Class 56 Rating, Add   | 24,095.31                 |                         |
| 40 05 19 00-2592 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 89,532.32                 | 4,204.43                |
| For Class 52 Rating, Deduct  | -9,147.82                 |                         |
| For Class 54 Rating, Add   | 12,550.74                 |                         |
| For Class 55 Rating, Add   | 18,698.01                 |                         |
| For Class 56 Rating, Add   | 24,762.11                 |                         |
| 40 05 19 00-2593 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 91,533.40                 | 4,209.35                |
| For Class 52 Rating, Deduct  | -9,367.11                 |                         |
| For Class 54 Rating, Add   | 12,849.87                 |                         |
| For Class 55 Rating, Add   | 19,142.76                 |                         |
| For Class 56 Rating, Add   | 25,350.50                 |                         |
| 40 05 19 00-2594 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 94,078.89                 | 4,214.28                |
| For Class 52 Rating, Deduct  | -9,646.30                 |                         |
| For Class 54 Rating, Add   | 13,230.67                 |                         |
| For Class 55 Rating, Add   | 19,708.92                 |                         |
| For Class 56 Rating, Add   | 26,099.49                 |                         |
| 40 05 19 00-2595 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 96,343.22                 | 4,219.21                |
| For Class 52 Rating, Deduct  | -9,894.55                 |                         |
| For Class 54 Rating, Add   | 13,569.29                 |                         |
| For Class 55 Rating, Add   | 20,212.38                 |                         |
| For Class 56 Rating, Add   | 26,765.53                 |                         |
| 40 05 19 00-2596 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 98,628.02                 | 4,224.12                |
| For Class 52 Rating, Deduct  | -10,145.06                |                         |
| For Class 54 Rating, Add   | 13,910.98                 |                         |
| For Class 55 Rating, Add   | 20,720.41                 |                         |
| For Class 56 Rating, Add   | 27,437.61                 |                         |
| 40 05 19 00-2597 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 100,892.34                | 4,229.05                |
| For Class 52 Rating, Deduct  | -10,393.32                |                         |
| For Class 54 Rating, Add   | 14,249.60                 |                         |
| For Class 55 Rating, Add   | 21,223.87                 |                         |
| For Class 56 Rating, Add   | 28,103.66                 |                         |
| 40 05 19 00-2598 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 103,156.68                | 4,233.97                |
| For Class 52 Rating, Deduct  | -10,641.57                |                         |
| For Class 54 Rating, Add   | 14,588.22                 |                         |
| For Class 55 Rating, Add   | 21,727.33                 |                         |
| For Class 56 Rating, Add   | 28,769.71                 |                         |
| 40 05 19 00-2599 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                            | 105,444.02                | 4,238.90                |
| For Class 52 Rating, Deduct  | -10,892.36                |                         |
| For Class 54 Rating, Add   | 14,930.29                 |                         |
| For Class 55 Rating, Add   | 22,235.93                 |                         |
| For Class 56 Rating, Add   | 29,442.54                 |                         |
| 40 05 19 00-2600 Flanged End x Grooved End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>              |                           |                         |
| 40 05 19 00-2601 4" Flanged End x Grooved End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small> |                           |                         |
| 40 05 19 00-2602 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                    | 798.86                    | 225.29                  |
| For Class 52 Rating, Deduct  | -50.33                    |                         |
| For Class 54 Rating, Add   | 72.72                     |                         |
| For Class 55 Rating, Add   | 110.22                    |                         |
| For Class 56 Rating, Add   | 147.25                    |                         |
| 40 05 19 00-2603 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                    | 901.94                    | 229.23                  |
| For Class 52 Rating, Deduct  | -61.01                    |                         |
| For Class 54 Rating, Add   | 87.36                     |                         |
| For Class 55 Rating, Add   | 132.02                    |                         |
| For Class 56 Rating, Add   | 176.12                    |                         |
| 40 05 19 00-2604 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                    | 1,005.04                  | 233.17                  |
| For Class 52 Rating, Deduct  | -71.69                    |                         |
| For Class 54 Rating, Add   | 102.00                    |                         |
| For Class 55 Rating, Add   | 153.82                    |                         |
| For Class 56 Rating, Add   | 204.99                    |                         |
| 40 05 19 00-2605 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe                    | 1,108.13                  | 237.11                  |
| For Class 52 Rating, Deduct  | -82.38                    |                         |
| For Class 54 Rating, Add   | 116.64                    |                         |
| For Class 55 Rating, Add   | 175.62                    |                         |
| For Class 56 Rating, Add   | 233.85                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2606 | EA  |     | 4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,211.22               | 241.04               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -93.06                 |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 131.28                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 197.43                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 262.72                 |                      |
| 40 05 19 00-2607 | EA  |     | 4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,314.31               | 244.98               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -103.74                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 145.92                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 219.23                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 291.59                 |                      |
| 40 05 19 00-2608 | EA  |     | 4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,417.41               | 248.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -114.43                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 160.56                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 241.03                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 320.45                 |                      |
| 40 05 19 00-2609 | EA  |     | 4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,520.49               | 252.86               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -125.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 175.20                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 262.83                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 349.32                 |                      |
| 40 05 19 00-2610 | EA  |     | 4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,623.59               | 256.80               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -135.80                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 189.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 284.63                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 378.19                 |                      |
| 40 05 19 00-2611 | EA  |     | 4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,726.68               | 260.74               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -146.48                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 204.49                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 306.43                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 407.05                 |                      |
| 40 05 19 00-2612 | EA  |     | 4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,829.78               | 264.67               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -157.16                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 219.13                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 328.24                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 435.92                 |                      |
| 40 05 19 00-2613 | EA  |     | 4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 1,932.86               | 268.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -167.85                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 233.77                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 350.04                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 464.79                 |                      |
| 40 05 19 00-2614 | EA  |     | 4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,035.96               | 272.56               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -178.53                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 248.41                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 371.84                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 493.65                 |                      |
| 40 05 19 00-2615 | EA  |     | 4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,139.05               | 276.49               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -189.21                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 263.05                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 393.64                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 522.52                 |                      |
| 40 05 19 00-2616 | EA  |     | 4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,242.15               | 280.43               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -199.90                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 277.69                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 415.45                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 551.39                 |                      |
| 40 05 19 00-2617 | EA  |     | 4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,345.24               | 284.37               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -210.58                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 292.33                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 437.25                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 580.25                 |                      |
| 40 05 19 00-2618 | EA  |     | 4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,448.34               | 288.30               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -221.27                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 306.97                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 459.05                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 609.12                 |                      |
| 40 05 19 00-2619 | EA  |     | 4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 2,551.42               | 292.24               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -231.95                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 321.61                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 480.85                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 637.99                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2620 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 2,654.52                  | 296.19                  |
| <i>For Class 52 Rating, Deduct</i>  | -242.63                   |                         |
| <i>For Class 54 Rating, Add</i>   | 336.25                    |                         |
| <i>For Class 55 Rating, Add</i>   | 502.65                    |                         |
| <i>For Class 56 Rating, Add</i>   | 666.85                    |                         |
| 40 05 19 00-2621 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 2,757.61                  | 300.12                  |
| <i>For Class 52 Rating, Deduct</i>  | -253.32                   |                         |
| <i>For Class 54 Rating, Add</i>   | 350.89                    |                         |
| <i>For Class 55 Rating, Add</i>   | 524.46                    |                         |
| <i>For Class 56 Rating, Add</i>   | 695.72                    |                         |
| 40 05 19 00-2622 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 2,860.71                  | 304.06                  |
| <i>For Class 52 Rating, Deduct</i>  | -264.00                   |                         |
| <i>For Class 54 Rating, Add</i>   | 365.53                    |                         |
| <i>For Class 55 Rating, Add</i>   | 546.26                    |                         |
| <i>For Class 56 Rating, Add</i>   | 724.59                    |                         |
| 40 05 19 00-2623 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 2,963.79                  | 308.00                  |
| <i>For Class 52 Rating, Deduct</i>  | -274.68                   |                         |
| <i>For Class 54 Rating, Add</i>   | 380.17                    |                         |
| <i>For Class 55 Rating, Add</i>   | 568.06                    |                         |
| <i>For Class 56 Rating, Add</i>   | 753.45                    |                         |
| 40 05 19 00-2624 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,066.89                  | 311.93                  |
| <i>For Class 52 Rating, Deduct</i>  | -285.37                   |                         |
| <i>For Class 54 Rating, Add</i>   | 394.81                    |                         |
| <i>For Class 55 Rating, Add</i>   | 589.86                    |                         |
| <i>For Class 56 Rating, Add</i>   | 782.32                    |                         |
| 40 05 19 00-2625 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,169.98                  | 315.88                  |
| <i>For Class 52 Rating, Deduct</i>  | -296.05                   |                         |
| <i>For Class 54 Rating, Add</i>   | 409.45                    |                         |
| <i>For Class 55 Rating, Add</i>   | 611.66                    |                         |
| <i>For Class 56 Rating, Add</i>   | 811.19                    |                         |
| 40 05 19 00-2626 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,273.07                  | 319.82                  |
| <i>For Class 52 Rating, Deduct</i>  | -306.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 424.09                    |                         |
| <i>For Class 55 Rating, Add</i>   | 633.47                    |                         |
| <i>For Class 56 Rating, Add</i>   | 840.05                    |                         |
| 40 05 19 00-2627 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,376.16                  | 323.75                  |
| <i>For Class 52 Rating, Deduct</i>  | -317.42                   |                         |
| <i>For Class 54 Rating, Add</i>   | 438.73                    |                         |
| <i>For Class 55 Rating, Add</i>   | 655.27                    |                         |
| <i>For Class 56 Rating, Add</i>   | 868.92                    |                         |
| 40 05 19 00-2628 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,479.26                  | 327.69                  |
| <i>For Class 52 Rating, Deduct</i>  | -328.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 453.37                    |                         |
| <i>For Class 55 Rating, Add</i>   | 677.07                    |                         |
| <i>For Class 56 Rating, Add</i>   | 897.79                    |                         |
| 40 05 19 00-2629 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,582.34                  | 331.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -338.79                   |                         |
| <i>For Class 54 Rating, Add</i>   | 468.01                    |                         |
| <i>For Class 55 Rating, Add</i>   | 698.87                    |                         |
| <i>For Class 56 Rating, Add</i>   | 926.65                    |                         |
| 40 05 19 00-2630 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,685.44                  | 335.57                  |
| <i>For Class 52 Rating, Deduct</i>  | -349.47                   |                         |
| <i>For Class 54 Rating, Add</i>   | 482.65                    |                         |
| <i>For Class 55 Rating, Add</i>   | 720.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 955.52                    |                         |
| 40 05 19 00-2631 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,788.53                  | 339.51                  |
| <i>For Class 52 Rating, Deduct</i>  | -360.15                   |                         |
| <i>For Class 54 Rating, Add</i>   | 497.29                    |                         |
| <i>For Class 55 Rating, Add</i>   | 742.48                    |                         |
| <i>For Class 56 Rating, Add</i>   | 984.39                    |                         |
| 40 05 19 00-2632 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,891.63                  | 343.45                  |
| <i>For Class 52 Rating, Deduct</i>  | -370.84                   |                         |
| <i>For Class 54 Rating, Add</i>   | 511.93                    |                         |
| <i>For Class 55 Rating, Add</i>   | 764.28                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,013.26                  |                         |
| 40 05 19 00-2633 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,994.71                  | 347.39                  |
| <i>For Class 52 Rating, Deduct</i>  | -381.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 526.57                    |                         |
| <i>For Class 55 Rating, Add</i>   | 786.08                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,042.12                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2634 | EA  |     | 4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,097.82               | 351.32               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -392.21                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 541.21                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 807.88                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,070.99               |                      |
| 40 05 19 00-2635 | EA  |     | 4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,200.91               | 355.26               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -402.89                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 555.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 829.69                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,099.85               |                      |
| 40 05 19 00-2636 | EA  |     | 4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,304.00               | 359.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -413.57                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 570.49                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 851.49                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,128.72               |                      |
| 40 05 19 00-2637 | EA  |     | 4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,407.09               | 363.14               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -424.26                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 585.13                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 873.29                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,157.59               |                      |
| 40 05 19 00-2638 | EA  |     | 4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,510.19               | 367.08               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -434.94                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 599.78                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 895.09                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,186.46               |                      |
| 40 05 19 00-2639 | EA  |     | 4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,587.71               | 371.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -442.81                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 610.58                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 911.19                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,207.78               |                      |
| 40 05 19 00-2640 | EA  |     | 4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 4,716.37               | 374.95               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -456.31                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 629.06                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 938.70                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,244.19               |                      |

**40 05 19 00-2641 6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe** (40 05 19 00-2600)

|                  |    |  |   |          |        |
|------------------|----|--|---|----------|--------|
| 40 05 19 00-2642 | EA |  | 6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,030.31 | 283.58 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i>  | -66.07   |        |
|                  |    |  | <i>For Class 54 Rating, Add</i>   | 95.25    |        |
|                  |    |  | <i>For Class 55 Rating, Add</i>   | 144.25   |        |
|                  |    |  | <i>For Class 56 Rating, Add</i>   | 192.66   |        |
| 40 05 19 00-2643 | EA |  | 6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,148.73 | 287.51 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i>  | -78.44   |        |
|                  |    |  | <i>For Class 54 Rating, Add</i>   | 112.19   |        |
|                  |    |  | <i>For Class 55 Rating, Add</i>   | 169.48   |        |
|                  |    |  | <i>For Class 56 Rating, Add</i>   | 226.05   |        |
| 40 05 19 00-2644 | EA |  | 6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,267.16 | 291.46 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i>  | -90.81   |        |
|                  |    |  | <i>For Class 54 Rating, Add</i>   | 129.13   |        |
|                  |    |  | <i>For Class 55 Rating, Add</i>   | 194.70   |        |
|                  |    |  | <i>For Class 56 Rating, Add</i>   | 259.44   |        |
| 40 05 19 00-2645 | EA |  | 6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,385.59 | 295.40 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i>  | -103.18  |        |
|                  |    |  | <i>For Class 54 Rating, Add</i>   | 146.07   |        |
|                  |    |  | <i>For Class 55 Rating, Add</i>   | 219.92   |        |
|                  |    |  | <i>For Class 56 Rating, Add</i>   | 292.83   |        |
| 40 05 19 00-2646 | EA |  | 6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,504.01 | 299.33 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i>  | -115.55  |        |
|                  |    |  | <i>For Class 54 Rating, Add</i>   | 163.01   |        |
|                  |    |  | <i>For Class 55 Rating, Add</i>   | 245.14   |        |
|                  |    |  | <i>For Class 56 Rating, Add</i>   | 326.22   |        |
| 40 05 19 00-2647 | EA |  | 6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe | 1,622.44 | 303.27 |
|                  |    |  | <i>For Class 52 Rating, Deduct</i>  | -127.92  |        |
|                  |    |  | <i>For Class 54 Rating, Add</i>   | 179.96   |        |
|                  |    |  | <i>For Class 55 Rating, Add</i>   | 270.36   |        |
|                  |    |  | <i>For Class 56 Rating, Add</i>   | 359.61   |        |



|   |
|---|
| <b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>                            |
| <b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span> |
| Ductile Iron Process Pipe <b>40 05 19</b>   |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2648 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 1,740.87                  | 307.21                  |
| <i>For Class 52 Rating, Deduct</i>  | -140.29                   |                         |
| <i>For Class 54 Rating, Add</i>   | 196.90                    |                         |
| <i>For Class 55 Rating, Add</i>   | 295.59                    |                         |
| <i>For Class 56 Rating, Add</i>   | 393.00                    |                         |
| 40 05 19 00-2649 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 1,859.29                  | 311.14                  |
| <i>For Class 52 Rating, Deduct</i>  | -152.66                   |                         |
| <i>For Class 54 Rating, Add</i>   | 213.84                    |                         |
| <i>For Class 55 Rating, Add</i>   | 320.81                    |                         |
| <i>For Class 56 Rating, Add</i>   | 426.39                    |                         |
| 40 05 19 00-2650 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 1,977.72                  | 315.09                  |
| <i>For Class 52 Rating, Deduct</i>  | -165.04                   |                         |
| <i>For Class 54 Rating, Add</i>   | 230.78                    |                         |
| <i>For Class 55 Rating, Add</i>   | 346.03                    |                         |
| <i>For Class 56 Rating, Add</i>   | 459.78                    |                         |
| 40 05 19 00-2651 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,096.16                  | 319.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -177.41                   |                         |
| <i>For Class 54 Rating, Add</i>   | 247.72                    |                         |
| <i>For Class 55 Rating, Add</i>   | 371.25                    |                         |
| <i>For Class 56 Rating, Add</i>   | 493.17                    |                         |
| 40 05 19 00-2652 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,214.59                  | 322.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -189.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 264.66                    |                         |
| <i>For Class 55 Rating, Add</i>   | 396.47                    |                         |
| <i>For Class 56 Rating, Add</i>   | 526.56                    |                         |
| 40 05 19 00-2653 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,333.01                  | 326.90                  |
| <i>For Class 52 Rating, Deduct</i>  | -202.15                   |                         |
| <i>For Class 54 Rating, Add</i>   | 281.60                    |                         |
| <i>For Class 55 Rating, Add</i>   | 421.70                    |                         |
| <i>For Class 56 Rating, Add</i>   | 559.96                    |                         |
| 40 05 19 00-2654 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,451.44                  | 330.84                  |
| <i>For Class 52 Rating, Deduct</i>  | -214.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 298.54                    |                         |
| <i>For Class 55 Rating, Add</i>   | 446.92                    |                         |
| <i>For Class 56 Rating, Add</i>   | 593.35                    |                         |
| 40 05 19 00-2655 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,569.87                  | 334.78                  |
| <i>For Class 52 Rating, Deduct</i>  | -226.89                   |                         |
| <i>For Class 54 Rating, Add</i>   | 315.48                    |                         |
| <i>For Class 55 Rating, Add</i>   | 472.14                    |                         |
| <i>For Class 56 Rating, Add</i>   | 626.74                    |                         |
| 40 05 19 00-2656 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,688.30                  | 338.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -239.26                   |                         |
| <i>For Class 54 Rating, Add</i>   | 332.42                    |                         |
| <i>For Class 55 Rating, Add</i>   | 497.36                    |                         |
| <i>For Class 56 Rating, Add</i>   | 660.13                    |                         |
| 40 05 19 00-2657 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,806.73                  | 342.66                  |
| <i>For Class 52 Rating, Deduct</i>  | -251.63                   |                         |
| <i>For Class 54 Rating, Add</i>   | 349.36                    |                         |
| <i>For Class 55 Rating, Add</i>   | 522.58                    |                         |
| <i>For Class 56 Rating, Add</i>   | 693.52                    |                         |
| 40 05 19 00-2658 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,925.16                  | 346.59                  |
| <i>For Class 52 Rating, Deduct</i>  | -264.00                   |                         |
| <i>For Class 54 Rating, Add</i>   | 366.30                    |                         |
| <i>For Class 55 Rating, Add</i>   | 547.81                    |                         |
| <i>For Class 56 Rating, Add</i>   | 726.91                    |                         |
| 40 05 19 00-2659 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,043.58                  | 350.53                  |
| <i>For Class 52 Rating, Deduct</i>  | -276.37                   |                         |
| <i>For Class 54 Rating, Add</i>   | 383.24                    |                         |
| <i>For Class 55 Rating, Add</i>   | 573.03                    |                         |
| <i>For Class 56 Rating, Add</i>   | 760.30                    |                         |
| 40 05 19 00-2660 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,162.01                  | 354.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -288.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 400.18                    |                         |
| <i>For Class 55 Rating, Add</i>   | 598.25                    |                         |
| <i>For Class 56 Rating, Add</i>   | 793.69                    |                         |
| 40 05 19 00-2661 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,280.44                  | 358.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -301.11                   |                         |
| <i>For Class 54 Rating, Add</i>   | 417.13                    |                         |
| <i>For Class 55 Rating, Add</i>   | 623.47                    |                         |
| <i>For Class 56 Rating, Add</i>   | 827.08                    |                         |



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2662 | EA  |     | 6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,398.87                  | 362.35                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -313.48                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 434.07                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 648.69                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 860.47                    |                         |
| 40 05 19 00-2663 | EA  |     | 6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,517.29                  | 366.29                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -325.85                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 451.01                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 673.91                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 893.86                    |                         |
| 40 05 19 00-2664 | EA  |     | 6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,635.72                  | 370.22                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -338.22                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 467.95                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 699.14                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 927.25                    |                         |
| 40 05 19 00-2665 | EA  |     | 6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,754.15                  | 374.16                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -350.60                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 484.89                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 724.36                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 960.64                    |                         |
| 40 05 19 00-2666 | EA  |     | 6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,872.57                  | 378.11                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -362.97                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 501.83                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 749.58                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 994.03                    |                         |
| 40 05 19 00-2667 | EA  |     | 6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,991.00                  | 382.04                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -375.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 518.77                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 774.80                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,027.42                  |                         |
| 40 05 19 00-2668 | EA  |     | 6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,109.43                  | 385.98                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -387.71                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 535.71                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 800.02                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,060.81                  |                         |
| 40 05 19 00-2669 | EA  |     | 6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,227.85                  | 389.92                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -400.08                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 552.65                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 825.25                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,094.20                  |                         |
| 40 05 19 00-2670 | EA  |     | 6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,346.28                  | 393.85                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -412.45                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 569.59                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 850.47                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,127.59                  |                         |
| 40 05 19 00-2671 | EA  |     | 6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,464.72                  | 397.79                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -424.82                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 586.53                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 875.69                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,160.99                  |                         |
| 40 05 19 00-2672 | EA  |     | 6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,583.15                  | 401.74                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -437.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 603.47                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 900.91                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,194.38                  |                         |
| 40 05 19 00-2673 | EA  |     | 6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,701.57                  | 405.67                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -449.56                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 620.41                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 926.13                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,227.77                  |                         |
| 40 05 19 00-2674 | EA  |     | 6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,820.00                  | 409.61                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -461.93                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 637.35                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 951.36                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,261.16                  |                         |
| 40 05 19 00-2675 | EA  |     | 6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,938.44                  | 413.55                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -474.30                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 654.30                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 976.58                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,294.55                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2676 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                         | 5,056.86                  | 417.49                  |
| <i>For Class 52 Rating, Deduct</i>  | -486.67                   |                         |
| <i>For Class 54 Rating, Add</i>   | 671.24                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,001.80                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,327.94                  |                         |
| 40 05 19 00-2677 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                         | 5,175.29                  | 421.43                  |
| <i>For Class 52 Rating, Deduct</i>  | -499.04                   |                         |
| <i>For Class 54 Rating, Add</i>   | 688.18                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,027.02                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,361.33                  |                         |
| 40 05 19 00-2678 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                         | 5,293.72                  | 425.37                  |
| <i>For Class 52 Rating, Deduct</i>  | -511.41                   |                         |
| <i>For Class 54 Rating, Add</i>   | 705.12                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,052.24                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,394.72                  |                         |
| 40 05 19 00-2679 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                         | 5,412.14                  | 429.31                  |
| <i>For Class 52 Rating, Deduct</i>  | -523.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 722.06                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,077.47                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,428.11                  |                         |
| 40 05 19 00-2680 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                         | 5,530.57                  | 433.24                  |
| <i>For Class 52 Rating, Deduct</i>  | -536.16                   |                         |
| <i>For Class 54 Rating, Add</i>   | 739.00                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,102.69                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,461.50                  |                         |
| <br><b>40 05 19 00-2681 8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined<br/>(P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small></b> |                           |                         |
| 40 05 19 00-2682 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 1,402.70                  | 362.35                  |
| <i>For Class 52 Rating, Deduct</i>  | -93.90                    |                         |
| <i>For Class 54 Rating, Add</i>   | 134.64                    |                         |
| <i>For Class 55 Rating, Add</i>   | 203.55                    |                         |
| <i>For Class 56 Rating, Add</i>   | 271.60                    |                         |
| 40 05 19 00-2683 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 1,554.34                  | 366.29                  |
| <i>For Class 52 Rating, Deduct</i>  | -109.93                   |                         |
| <i>For Class 54 Rating, Add</i>   | 156.56                    |                         |
| <i>For Class 55 Rating, Add</i>   | 236.18                    |                         |
| <i>For Class 56 Rating, Add</i>   | 314.79                    |                         |
| 40 05 19 00-2684 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 1,706.00                  | 370.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -125.96                   |                         |
| <i>For Class 54 Rating, Add</i>   | 178.49                    |                         |
| <i>For Class 55 Rating, Add</i>   | 268.81                    |                         |
| <i>For Class 56 Rating, Add</i>   | 357.98                    |                         |
| 40 05 19 00-2685 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 1,857.66                  | 374.16                  |
| <i>For Class 52 Rating, Deduct</i>  | -141.98                   |                         |
| <i>For Class 54 Rating, Add</i>   | 200.41                    |                         |
| <i>For Class 55 Rating, Add</i>   | 301.44                    |                         |
| <i>For Class 56 Rating, Add</i>   | 401.18                    |                         |
| 40 05 19 00-2686 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 2,009.31                  | 378.11                  |
| <i>For Class 52 Rating, Deduct</i>  | -158.01                   |                         |
| <i>For Class 54 Rating, Add</i>   | 222.34                    |                         |
| <i>For Class 55 Rating, Add</i>   | 334.07                    |                         |
| <i>For Class 56 Rating, Add</i>   | 444.37                    |                         |
| 40 05 19 00-2687 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 2,160.96                  | 382.04                  |
| <i>For Class 52 Rating, Deduct</i>  | -174.03                   |                         |
| <i>For Class 54 Rating, Add</i>   | 244.26                    |                         |
| <i>For Class 55 Rating, Add</i>   | 366.70                    |                         |
| <i>For Class 56 Rating, Add</i>   | 487.56                    |                         |
| 40 05 19 00-2688 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 2,312.62                  | 385.98                  |
| <i>For Class 52 Rating, Deduct</i>  | -190.06                   |                         |
| <i>For Class 54 Rating, Add</i>   | 266.19                    |                         |
| <i>For Class 55 Rating, Add</i>   | 399.34                    |                         |
| <i>For Class 56 Rating, Add</i>   | 530.75                    |                         |
| 40 05 19 00-2689 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....                          | 2,464.27                  | 389.92                  |
| <i>For Class 52 Rating, Deduct</i>  | -206.08                   |                         |
| <i>For Class 54 Rating, Add</i>   | 288.11                    |                         |
| <i>For Class 55 Rating, Add</i>   | 431.97                    |                         |
| <i>For Class 56 Rating, Add</i>   | 573.95                    |                         |

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2690 | EA  |     | 8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,615.93                  | 393.85                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -222.11                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 310.04                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 464.60                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 617.14                    |                         |
| 40 05 19 00-2691 | EA  |     | 8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,767.58                  | 397.79                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -238.13                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 331.96                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 497.23                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 660.33                    |                         |
| 40 05 19 00-2692 | EA  |     | 8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 2,919.24                  | 401.74                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -254.16                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 353.89                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 529.86                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 703.53                    |                         |
| 40 05 19 00-2693 | EA  |     | 8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,070.89                  | 405.67                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -270.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 375.81                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 562.49                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 746.72                    |                         |
| 40 05 19 00-2694 | EA  |     | 8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,222.55                  | 409.61                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -286.21                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 397.74                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 595.13                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 789.91                    |                         |
| 40 05 19 00-2695 | EA  |     | 8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,374.21                  | 413.55                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -302.24                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 419.66                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 627.76                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 833.10                    |                         |
| 40 05 19 00-2696 | EA  |     | 8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,525.86                  | 417.49                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -318.26                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 441.59                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 660.39                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 876.30                    |                         |
| 40 05 19 00-2697 | EA  |     | 8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,677.52                  | 421.43                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -334.29                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 463.51                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 693.02                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 919.49                    |                         |
| 40 05 19 00-2698 | EA  |     | 8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,829.18                  | 425.37                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -350.31                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 485.44                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 725.65                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 962.68                    |                         |
| 40 05 19 00-2699 | EA  |     | 8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 3,980.82                  | 429.31                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -366.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 507.36                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 758.28                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,005.87                  |                         |
| 40 05 19 00-2700 | EA  |     | 8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,132.48                  | 433.24                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -382.37                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 529.28                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 790.91                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,049.07                  |                         |
| 40 05 19 00-2701 | EA  |     | 8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,284.14                  | 437.18                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -398.39                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 551.21                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 823.55                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,092.26                  |                         |
| 40 05 19 00-2702 | EA  |     | 8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,435.80                  | 441.13                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -414.42                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 573.13                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 856.18                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,135.45                  |                         |
| 40 05 19 00-2703 | EA  |     | 8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,587.44                  | 445.06                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -430.44                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 595.06                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 888.81                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,178.64                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2704 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,739.10                  | 449.00                  |
| <i>For Class 52 Rating, Deduct</i>  | -446.47                   |                         |
| <i>For Class 54 Rating, Add</i>   | 616.98                    |                         |
| <i>For Class 55 Rating, Add</i>   | 921.44                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,221.84                  |                         |
| 40 05 19 00-2705 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,890.76                  | 452.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -462.49                   |                         |
| <i>For Class 54 Rating, Add</i>   | 638.91                    |                         |
| <i>For Class 55 Rating, Add</i>   | 954.07                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,265.03                  |                         |
| 40 05 19 00-2706 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,042.41                  | 456.87                  |
| <i>For Class 52 Rating, Deduct</i>  | -478.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 660.83                    |                         |
| <i>For Class 55 Rating, Add</i>   | 986.70                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,308.22                  |                         |
| 40 05 19 00-2707 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,194.06                  | 460.81                  |
| <i>For Class 52 Rating, Deduct</i>  | -494.54                   |                         |
| <i>For Class 54 Rating, Add</i>   | 682.76                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,019.33                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,351.41                  |                         |
| 40 05 19 00-2708 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,345.72                  | 464.76                  |
| <i>For Class 52 Rating, Deduct</i>  | -510.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 704.68                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,051.97                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,394.61                  |                         |
| 40 05 19 00-2709 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,497.38                  | 468.69                  |
| <i>For Class 52 Rating, Deduct</i>  | -526.60                   |                         |
| <i>For Class 54 Rating, Add</i>   | 726.61                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,084.60                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,437.80                  |                         |
| 40 05 19 00-2710 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,649.03                  | 472.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -542.62                   |                         |
| <i>For Class 54 Rating, Add</i>   | 748.53                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,117.23                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,480.99                  |                         |
| 40 05 19 00-2711 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,800.68                  | 476.57                  |
| <i>For Class 52 Rating, Deduct</i>  | -558.65                   |                         |
| <i>For Class 54 Rating, Add</i>   | 770.46                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,149.86                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,524.18                  |                         |
| 40 05 19 00-2712 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,952.34                  | 480.50                  |
| <i>For Class 52 Rating, Deduct</i>  | -574.67                   |                         |
| <i>For Class 54 Rating, Add</i>   | 792.38                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,182.49                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,567.38                  |                         |
| 40 05 19 00-2713 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,103.99                  | 484.45                  |
| <i>For Class 52 Rating, Deduct</i>  | -590.70                   |                         |
| <i>For Class 54 Rating, Add</i>   | 814.31                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,215.12                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,610.57                  |                         |
| 40 05 19 00-2714 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,255.66                  | 488.39                  |
| <i>For Class 52 Rating, Deduct</i>  | -606.72                   |                         |
| <i>For Class 54 Rating, Add</i>   | 836.23                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,247.76                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,653.76                  |                         |
| 40 05 19 00-2715 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,407.31                  | 492.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -622.75                   |                         |
| <i>For Class 54 Rating, Add</i>   | 858.16                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,280.39                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,696.96                  |                         |
| 40 05 19 00-2716 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,558.96                  | 496.26                  |
| <i>For Class 52 Rating, Deduct</i>  | -638.78                   |                         |
| <i>For Class 54 Rating, Add</i>   | 880.08                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,313.02                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,740.15                  |                         |
| 40 05 19 00-2717 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,710.62                  | 500.20                  |
| <i>For Class 52 Rating, Deduct</i>  | -654.80                   |                         |
| <i>For Class 54 Rating, Add</i>   | 902.01                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,345.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,783.34                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2718 | EA  |     | 8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 6,862.28               | 504.13               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -670.83                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 923.93                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,378.28               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,826.54               |                      |
| 40 05 19 00-2719 | EA  |     | 8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 7,013.93               | 508.08               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -686.85                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 945.85                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,410.91               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,869.73               |                      |
| 40 05 19 00-2720 | EA  |     | 8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 7,165.58               | 512.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -702.88                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 967.78                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,443.54               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,912.92               |                      |
| 40 05 19 00-2721 |     |     | <b>10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small> |                        |                      |
| 40 05 19 00-2722 | EA  |     | 10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 1,757.19               | 441.13               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -119.77                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 171.34                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 258.85                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 345.26                 |                      |
| 40 05 19 00-2723 | EA  |     | 10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 1,952.29               | 445.06               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -140.58                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 199.79                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 301.17                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 401.27                 |                      |
| 40 05 19 00-2724 | EA  |     | 10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,147.40               | 449.00               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -161.38                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 228.23                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 343.49                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 457.29                 |                      |
| 40 05 19 00-2725 | EA  |     | 10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,342.51               | 452.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -182.19                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 256.67                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 385.81                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 513.30                 |                      |
| 40 05 19 00-2726 | EA  |     | 10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,537.60               | 456.87               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -202.99                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 285.11                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 428.13                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 569.30                 |                      |
| 40 05 19 00-2727 | EA  |     | 10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,732.71               | 460.81               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -223.80                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 313.55                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 470.45                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 625.32                 |                      |
| 40 05 19 00-2728 | EA  |     | 10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 2,927.82               | 464.76               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -244.60                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 342.00                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 512.77                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 681.33                 |                      |
| 40 05 19 00-2729 | EA  |     | 10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,122.93               | 468.69               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -265.41                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 370.44                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 555.10                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 737.34                 |                      |
| 40 05 19 00-2730 | EA  |     | 10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,318.03               | 472.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -286.21                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 398.88                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 597.42                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 793.35                 |                      |
| 40 05 19 00-2731 | EA  |     | 10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....                        | 3,513.13               | 476.57               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -307.02                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 427.32                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 639.74                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 849.36                 |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2732 | EA    |     |     | 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,708.24               | 480.50               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -327.82                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 455.77                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 682.06                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 905.37                 |                      |
| 40 05 19 00-2733 | EA    |     |     | 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 3,903.34               | 484.45               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -348.63                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 484.21                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 724.38                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 961.38                 |                      |
| 40 05 19 00-2734 | EA    |     |     | 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,098.46               | 488.39               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -369.43                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 512.65                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 766.70                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,017.39               |                      |
| 40 05 19 00-2735 | EA    |     |     | 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,293.57               | 492.32               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -390.24                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 541.09                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 809.02                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,073.40               |                      |
| 40 05 19 00-2736 | EA    |     |     | 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,488.67               | 496.26               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -411.04                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 569.54                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 851.34                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,129.41               |                      |
| 40 05 19 00-2737 | EA    |     |     | 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,683.77               | 500.20               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -431.85                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 597.98                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 893.66                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,185.42               |                      |
| 40 05 19 00-2738 | EA    |     |     | 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 4,878.88               | 504.13               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -452.65                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 626.42                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 935.98                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,241.43               |                      |
| 40 05 19 00-2739 | EA    |     |     | 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 5,073.99               | 508.08               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -473.46                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 654.86                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 978.31                 |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,297.44               |                      |
| 40 05 19 00-2740 | EA    |     |     | 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,269.09               | 512.02               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -494.26                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 683.31                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 1,020.63               |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,353.45               |                      |
| 40 05 19 00-2741 | EA    |     |     | 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,464.20               | 515.95               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -515.07                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 711.75                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 1,062.95               |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,409.47               |                      |
| 40 05 19 00-2742 | EA    |     |     | 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,659.30               | 519.89               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -535.87                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 740.19                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 1,105.27               |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,465.47               |                      |
| 40 05 19 00-2743 | EA    |     |     | 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 5,854.40               | 523.83               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -556.68                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 768.63                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 1,147.59               |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,521.48               |                      |
| 40 05 19 00-2744 | EA    |     |     | 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,049.51               | 527.77               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -577.48                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 797.07                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 1,189.91               |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,577.50               |                      |
| 40 05 19 00-2745 | EA    |     |     | 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 6,244.62               | 531.71               |
|                  |       |     |     | <i>For Class 52 Rating, Deduct</i>  | -598.29                |                      |
|                  |       |     |     | <i>For Class 54 Rating, Add</i>   | 825.52                 |                      |
|                  |       |     |     | <i>For Class 55 Rating, Add</i>   | 1,232.23               |                      |
|                  |       |     |     | <i>For Class 56 Rating, Add</i>   | 1,633.51               |                      |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-2746 | EA  |     | 10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 6,439.72                  | 535.65                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -619.10                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 853.96                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,274.55                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,689.52                  |                         |
| 40 05 19 00-2747 | EA  |     | 10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 6,634.82                  | 539.58                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -639.90                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 882.40                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,316.87                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,745.53                  |                         |
| 40 05 19 00-2748 | EA  |     | 10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 6,829.93                  | 543.52                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -660.71                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 910.84                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,359.19                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,801.54                  |                         |
| 40 05 19 00-2749 | EA  |     | 10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,025.04                  | 547.46                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -681.51                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 939.29                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,401.52                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,857.55                  |                         |
| 40 05 19 00-2750 | EA  |     | 10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,220.14                  | 551.40                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -702.32                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 967.73                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,443.84                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,913.56                  |                         |
| 40 05 19 00-2751 | EA  |     | 10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,415.25                  | 555.34                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -723.12                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 996.17                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,486.16                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,969.57                  |                         |
| 40 05 19 00-2752 | EA  |     | 10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,610.35                  | 559.28                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -743.93                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,024.61                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,528.48                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,025.58                  |                         |
| 40 05 19 00-2753 | EA  |     | 10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,805.46                  | 563.22                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -764.73                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,053.06                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,570.80                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,081.59                  |                         |
| 40 05 19 00-2754 | EA  |     | 10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,000.57                  | 567.15                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -785.54                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,081.50                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,613.12                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,137.60                  |                         |
| 40 05 19 00-2755 | EA  |     | 10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,195.68                  | 571.10                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -806.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,109.94                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,655.44                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,193.61                  |                         |
| 40 05 19 00-2756 | EA  |     | 10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,390.78                  | 575.04                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -827.15                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,138.38                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,697.76                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,249.62                  |                         |
| 40 05 19 00-2757 | EA  |     | 10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,585.88                  | 578.97                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -847.95                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,166.82                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,740.08                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,305.63                  |                         |
| 40 05 19 00-2758 | EA  |     | 10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,780.99                  | 582.91                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -868.76                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,195.27                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,782.40                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,361.64                  |                         |
| 40 05 19 00-2759 | EA  |     | 10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,976.10                  | 586.85                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -889.56                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,223.71                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,824.73                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,417.65                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2760 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 9,171.20                  | 590.78                  |
| <i>For Class 52 Rating, Deduct</i>  | -910.37                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,252.15                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,867.05                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,473.67                  |                         |
| <b>40 05 19 00-2761 12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(#40 05 19 00-2600)</small></b> |                           |                         |
| 40 05 19 00-2762 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 2,266.77                  | 551.40                  |
| <i>For Class 52 Rating, Deduct</i>  | -157.45                   |                         |
| <i>For Class 54 Rating, Add</i>   | 224.72                    |                         |
| <i>For Class 55 Rating, Add</i>   | 339.24                    |                         |
| <i>For Class 56 Rating, Add</i>   | 452.32                    |                         |
| 40 05 19 00-2763 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 2,507.88                  | 555.34                  |
| <i>For Class 52 Rating, Deduct</i>  | -183.31                   |                         |
| <i>For Class 54 Rating, Add</i>   | 260.07                    |                         |
| <i>For Class 55 Rating, Add</i>   | 391.81                    |                         |
| <i>For Class 56 Rating, Add</i>   | 521.90                    |                         |
| 40 05 19 00-2764 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 2,748.99                  | 559.28                  |
| <i>For Class 52 Rating, Deduct</i>  | -209.18                   |                         |
| <i>For Class 54 Rating, Add</i>   | 295.41                    |                         |
| <i>For Class 55 Rating, Add</i>   | 444.39                    |                         |
| <i>For Class 56 Rating, Add</i>   | 591.48                    |                         |
| 40 05 19 00-2765 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 2,990.11                  | 563.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -235.04                   |                         |
| <i>For Class 54 Rating, Add</i>   | 330.75                    |                         |
| <i>For Class 55 Rating, Add</i>   | 496.98                    |                         |
| <i>For Class 56 Rating, Add</i>   | 661.06                    |                         |
| 40 05 19 00-2766 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 3,231.22                  | 567.15                  |
| <i>For Class 52 Rating, Deduct</i>  | -260.91                   |                         |
| <i>For Class 54 Rating, Add</i>   | 366.10                    |                         |
| <i>For Class 55 Rating, Add</i>   | 549.56                    |                         |
| <i>For Class 56 Rating, Add</i>   | 730.64                    |                         |
| 40 05 19 00-2767 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 3,472.34                  | 571.10                  |
| <i>For Class 52 Rating, Deduct</i>  | -286.77                   |                         |
| <i>For Class 54 Rating, Add</i>   | 401.44                    |                         |
| <i>For Class 55 Rating, Add</i>   | 602.14                    |                         |
| <i>For Class 56 Rating, Add</i>   | 800.23                    |                         |
| 40 05 19 00-2768 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 3,713.44                  | 575.04                  |
| <i>For Class 52 Rating, Deduct</i>  | -312.64                   |                         |
| <i>For Class 54 Rating, Add</i>   | 436.78                    |                         |
| <i>For Class 55 Rating, Add</i>   | 654.72                    |                         |
| <i>For Class 56 Rating, Add</i>   | 869.81                    |                         |
| 40 05 19 00-2769 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 3,954.56                  | 578.97                  |
| <i>For Class 52 Rating, Deduct</i>  | -338.51                   |                         |
| <i>For Class 54 Rating, Add</i>   | 472.13                    |                         |
| <i>For Class 55 Rating, Add</i>   | 707.30                    |                         |
| <i>For Class 56 Rating, Add</i>   | 939.39                    |                         |
| 40 05 19 00-2770 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 4,195.67                  | 582.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -364.37                   |                         |
| <i>For Class 54 Rating, Add</i>   | 507.47                    |                         |
| <i>For Class 55 Rating, Add</i>   | 759.88                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,008.97                  |                         |
| 40 05 19 00-2771 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 4,436.79                  | 586.85                  |
| <i>For Class 52 Rating, Deduct</i>  | -390.24                   |                         |
| <i>For Class 54 Rating, Add</i>   | 542.81                    |                         |
| <i>For Class 55 Rating, Add</i>   | 812.46                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,078.56                  |                         |
| 40 05 19 00-2772 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 4,677.89                  | 590.78                  |
| <i>For Class 52 Rating, Deduct</i>  | -416.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 578.16                    |                         |
| <i>For Class 55 Rating, Add</i>   | 865.04                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,148.14                  |                         |
| 40 05 19 00-2773 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 4,919.01                  | 594.73                  |
| <i>For Class 52 Rating, Deduct</i>  | -441.97                   |                         |
| <i>For Class 54 Rating, Add</i>   | 613.50                    |                         |
| <i>For Class 55 Rating, Add</i>   | 917.62                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,217.72                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-2774 | EA  |     | 12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 5,160.12                  | 598.67                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -467.84                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 648.84                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 970.20                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,287.30                  |                         |
| 40 05 19 00-2775 | EA  |     | 12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 5,401.23                  | 602.60                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -493.70                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 684.19                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,022.78                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,356.89                  |                         |
| 40 05 19 00-2776 | EA  |     | 12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 5,642.34                  | 606.54                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -519.57                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 719.53                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,075.36                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,426.47                  |                         |
| 40 05 19 00-2777 | EA  |     | 12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 5,883.45                  | 610.48                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -545.43                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 754.87                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,127.94                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,496.05                  |                         |
| 40 05 19 00-2778 | EA  |     | 12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 6,124.56                  | 614.42                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -571.30                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 790.22                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,180.52                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,565.63                  |                         |
| 40 05 19 00-2779 | EA  |     | 12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 6,365.67                  | 618.36                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -597.16                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 825.56                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,233.10                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,635.22                  |                         |
| 40 05 19 00-2780 | EA  |     | 12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 6,606.79                  | 622.30                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -623.03                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 860.90                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,285.68                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,704.80                  |                         |
| 40 05 19 00-2781 | EA  |     | 12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 6,847.90                  | 626.23                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -648.90                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 896.25                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,338.26                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,774.38                  |                         |
| 40 05 19 00-2782 | EA  |     | 12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 7,089.01                  | 630.17                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -674.76                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 931.59                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,390.84                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,843.96                  |                         |
| 40 05 19 00-2783 | EA  |     | 12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 7,330.12                  | 634.11                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -700.63                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 966.93                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,443.42                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,913.55                  |                         |
| 40 05 19 00-2784 | EA  |     | 12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 7,571.25                  | 638.05                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -726.50                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,002.28                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,496.01                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 1,983.13                  |                         |
| 40 05 19 00-2785 | EA  |     | 12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 7,812.35                  | 641.99                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -752.36                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,037.62                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,548.58                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,052.71                  |                         |
| 40 05 19 00-2786 | EA  |     | 12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 8,053.47                  | 645.93                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -778.23                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,072.96                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,601.17                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,122.30                  |                         |
| 40 05 19 00-2787 | EA  |     | 12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 8,294.58                  | 649.86                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -804.09                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,108.31                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 1,653.75                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 2,191.88                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2788 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,535.69                  | 653.80                  |
| <i>For Class 52 Rating, Deduct</i>  | -829.96                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,143.65                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,706.33                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,261.46                  |                         |
| 40 05 19 00-2789 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,776.80                  | 657.75                  |
| <i>For Class 52 Rating, Deduct</i>  | -855.82                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,178.99                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,758.91                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,331.04                  |                         |
| 40 05 19 00-2790 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,017.92                  | 661.68                  |
| <i>For Class 52 Rating, Deduct</i>  | -881.69                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,214.34                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,811.49                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,400.63                  |                         |
| 40 05 19 00-2791 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,259.03                  | 665.62                  |
| <i>For Class 52 Rating, Deduct</i>  | -907.56                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,249.68                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,864.07                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,470.21                  |                         |
| 40 05 19 00-2792 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,500.13                  | 669.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -933.42                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,285.02                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,916.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,539.79                  |                         |
| 40 05 19 00-2793 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,741.25                  | 673.49                  |
| <i>For Class 52 Rating, Deduct</i>  | -959.29                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,320.37                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,969.23                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,609.37                  |                         |
| 40 05 19 00-2794 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,982.36                  | 677.44                  |
| <i>For Class 52 Rating, Deduct</i>  | -985.15                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,355.71                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,021.81                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,678.95                  |                         |
| 40 05 19 00-2795 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 10,223.47                 | 681.38                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,011.02                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,391.05                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,074.39                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,748.54                  |                         |
| 40 05 19 00-2796 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 10,464.58                 | 685.31                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,036.89                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,426.39                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,126.97                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,818.12                  |                         |
| 40 05 19 00-2797 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 10,705.70                 | 689.25                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,062.75                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,461.74                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,179.55                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,887.70                  |                         |
| 40 05 19 00-2798 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 10,946.81                 | 693.19                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,088.62                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,497.08                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,232.13                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,957.28                  |                         |
| 40 05 19 00-2799 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 11,187.92                 | 697.12                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,114.48                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,532.43                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,284.71                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,026.87                  |                         |
| 40 05 19 00-2800 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 11,429.03                 | 701.07                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,140.35                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,567.77                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,337.29                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,096.45                  |                         |

40 05 19 00-2801 14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2800)

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2802 | EA  |     | 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,113.74                  | 661.68                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -232.23                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 328.71                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 494.86                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 658.89                    |                         |
| 40 05 19 00-2803 | EA  |     | 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,405.97                  | 665.62                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -263.72                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 371.72                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 558.84                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 743.55                    |                         |
| 40 05 19 00-2804 | EA  |     | 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,698.20                  | 669.56                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -295.21                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 414.73                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 622.82                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 828.22                    |                         |
| 40 05 19 00-2805 | EA  |     | 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 3,990.43                  | 673.49                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -326.70                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 457.74                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 686.80                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 912.88                    |                         |
| 40 05 19 00-2806 | EA  |     | 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,282.66                  | 677.44                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -358.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 500.75                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 750.78                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 997.54                    |                         |
| 40 05 19 00-2807 | EA  |     | 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,574.89                  | 681.38                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -389.68                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 543.77                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 814.76                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,082.21                  |                         |
| 40 05 19 00-2808 | EA  |     | 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,867.12                  | 685.31                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -421.16                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 586.78                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 878.74                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,166.87                  |                         |
| 40 05 19 00-2809 | EA  |     | 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,159.35                  | 689.25                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -452.65                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 629.79                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 942.72                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,251.53                  |                         |
| 40 05 19 00-2810 | EA  |     | 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,451.58                  | 693.19                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -484.14                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 672.80                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,006.69                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,336.19                  |                         |
| 40 05 19 00-2811 | EA  |     | 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,743.81                  | 697.12                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -515.63                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 715.81                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,070.68                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,420.86                  |                         |
| 40 05 19 00-2812 | EA  |     | 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,036.04                  | 701.07                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -547.12                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 758.82                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,134.66                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,505.52                  |                         |
| 40 05 19 00-2813 | EA  |     | 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,328.27                  | 705.01                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -578.61                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 801.83                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,198.63                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,590.18                  |                         |
| 40 05 19 00-2814 | EA  |     | 14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,620.50                  | 708.94                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -610.10                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 844.84                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,262.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,674.84                  |                         |
| 40 05 19 00-2815 | EA  |     | 14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,912.74                  | 712.88                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -641.59                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 887.85                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,326.60                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,759.50                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2816 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 7,204.97                  | 716.82                  |
| <i>For Class 52 Rating, Deduct</i>   | -673.08                   |                         |
| <i>For Class 54 Rating, Add</i>  | 930.86                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,390.57                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,844.17                  |                         |
| 40 05 19 00-2817 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 7,497.20                  | 720.76                  |
| <i>For Class 52 Rating, Deduct</i>   | -704.57                   |                         |
| <i>For Class 54 Rating, Add</i>  | 973.88                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,454.56                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,928.83                  |                         |
| 40 05 19 00-2818 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 7,789.43                  | 724.70                  |
| <i>For Class 52 Rating, Deduct</i>   | -736.05                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,016.89                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,518.53                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,013.49                  |                         |
| 40 05 19 00-2819 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 8,081.66                  | 728.64                  |
| <i>For Class 52 Rating, Deduct</i>   | -767.54                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,059.90                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,582.51                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,098.15                  |                         |
| 40 05 19 00-2820 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 8,373.89                  | 732.58                  |
| <i>For Class 52 Rating, Deduct</i>   | -799.03                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,102.91                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,646.49                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,182.82                  |                         |
| 40 05 19 00-2821 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 8,666.12                  | 736.51                  |
| <i>For Class 52 Rating, Deduct</i>   | -830.52                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,145.92                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,710.47                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,267.48                  |                         |
| 40 05 19 00-2822 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 8,958.35                  | 740.45                  |
| <i>For Class 52 Rating, Deduct</i>   | -862.01                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,188.93                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,774.45                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,352.14                  |                         |
| 40 05 19 00-2823 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 9,250.58                  | 744.40                  |
| <i>For Class 52 Rating, Deduct</i>   | -893.50                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,231.94                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,838.43                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,436.80                  |                         |
| 40 05 19 00-2824 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 9,542.81                  | 748.33                  |
| <i>For Class 52 Rating, Deduct</i>   | -924.99                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,274.95                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,902.41                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,521.47                  |                         |
| 40 05 19 00-2825 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 9,835.04                  | 752.27                  |
| <i>For Class 52 Rating, Deduct</i>   | -956.48                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,317.96                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,966.39                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,606.13                  |                         |
| 40 05 19 00-2826 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 10,127.27                 | 756.21                  |
| <i>For Class 52 Rating, Deduct</i>   | -987.97                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,360.97                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,030.37                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,690.79                  |                         |
| 40 05 19 00-2827 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 10,419.50                 | 760.14                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,019.45                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,403.99                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,094.35                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,775.45                  |                         |
| 40 05 19 00-2828 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 10,711.73                 | 764.09                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,050.94                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,447.00                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,158.33                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,860.12                  |                         |
| 40 05 19 00-2829 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 11,003.96                 | 768.03                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,082.43                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,490.01                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,222.31                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,944.78                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2830 | EA  |     | 14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 11,296.20              | 771.96               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,113.92              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,533.02               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,286.29               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,029.44               |                      |
| 40 05 19 00-2831 | EA  |     | 14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 11,588.42              | 775.90               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,145.41              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,576.03               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,350.27               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,114.10               |                      |
| 40 05 19 00-2832 | EA  |     | 14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 11,880.65              | 779.84               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,176.90              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,619.04               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,414.25               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,198.77               |                      |
| 40 05 19 00-2833 | EA  |     | 14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 12,172.88              | 783.77               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,208.39              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,662.05               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,478.23               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,283.43               |                      |
| 40 05 19 00-2834 | EA  |     | 14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 12,465.12              | 787.72               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,239.88              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,705.06               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,542.21               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,368.09               |                      |
| 40 05 19 00-2835 | EA  |     | 14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 12,757.35              | 791.66               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,271.37              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,748.07               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,606.19               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,452.75               |                      |
| 40 05 19 00-2836 | EA  |     | 14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 13,049.58              | 795.59               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,302.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,791.08               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,670.17               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,537.41               |                      |
| 40 05 19 00-2837 | EA  |     | 14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 13,341.81              | 799.53               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,334.34              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,834.10               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,734.15               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,622.08               |                      |
| 40 05 19 00-2838 | EA  |     | 14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 13,634.04              | 803.47               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,365.83              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,877.11               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,798.13               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,706.74               |                      |
| 40 05 19 00-2839 | EA  |     | 14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 13,926.27              | 807.41               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,397.32              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,920.12               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,862.11               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,791.40               |                      |
| 40 05 19 00-2840 |     |     | <b>16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2800)</small> |                        |                      |
| 40 05 19 00-2841 | EA  |     | 16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 3,637.79               | 756.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -274.12                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 387.55                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 583.22                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 776.39                 |                      |
| 40 05 19 00-2842 | EA  |     | 16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 3,976.02               | 760.14               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -310.67                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 437.46                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 657.46                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 874.63                 |                      |
| 40 05 19 00-2843 | EA  |     | 16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 4,314.26               | 764.09               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -347.22                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 487.38                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 731.70                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 972.86                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2844 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,652.50                  | 768.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -383.77                   |                         |
| <i>For Class 54 Rating, Add</i>   | 537.29                    |                         |
| <i>For Class 55 Rating, Add</i>   | 805.94                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,071.10                  |                         |
| 40 05 19 00-2845 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 4,990.74                  | 771.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -420.32                   |                         |
| <i>For Class 54 Rating, Add</i>   | 587.20                    |                         |
| <i>For Class 55 Rating, Add</i>   | 880.18                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,169.33                  |                         |
| 40 05 19 00-2846 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,328.97                  | 775.90                  |
| <i>For Class 52 Rating, Deduct</i>  | -456.87                   |                         |
| <i>For Class 54 Rating, Add</i>   | 637.11                    |                         |
| <i>For Class 55 Rating, Add</i>   | 954.42                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,267.57                  |                         |
| 40 05 19 00-2847 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 5,667.21                  | 779.84                  |
| <i>For Class 52 Rating, Deduct</i>  | -493.42                   |                         |
| <i>For Class 54 Rating, Add</i>   | 687.02                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,028.66                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,365.80                  |                         |
| 40 05 19 00-2848 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,005.45                  | 783.77                  |
| <i>For Class 52 Rating, Deduct</i>  | -529.97                   |                         |
| <i>For Class 54 Rating, Add</i>   | 736.94                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,102.89                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,464.03                  |                         |
| 40 05 19 00-2849 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,343.69                  | 787.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -566.52                   |                         |
| <i>For Class 54 Rating, Add</i>   | 786.85                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,177.13                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,562.27                  |                         |
| 40 05 19 00-2850 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 6,681.93                  | 791.66                  |
| <i>For Class 52 Rating, Deduct</i>  | -603.07                   |                         |
| <i>For Class 54 Rating, Add</i>   | 836.76                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,251.37                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,660.50                  |                         |
| 40 05 19 00-2851 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 7,020.17                  | 795.59                  |
| <i>For Class 52 Rating, Deduct</i>  | -639.62                   |                         |
| <i>For Class 54 Rating, Add</i>   | 886.67                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,325.61                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,758.74                  |                         |
| 40 05 19 00-2852 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 7,358.40                  | 799.53                  |
| <i>For Class 52 Rating, Deduct</i>  | -676.17                   |                         |
| <i>For Class 54 Rating, Add</i>   | 936.59                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,399.85                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,856.97                  |                         |
| 40 05 19 00-2853 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 7,696.64                  | 803.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -712.72                   |                         |
| <i>For Class 54 Rating, Add</i>   | 986.50                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,474.09                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,955.21                  |                         |
| 40 05 19 00-2854 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 8,034.88                  | 807.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -749.27                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,036.41                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,548.33                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,053.44                  |                         |
| 40 05 19 00-2855 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 8,373.12                  | 811.35                  |
| <i>For Class 52 Rating, Deduct</i>  | -785.82                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,086.32                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,622.57                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,151.68                  |                         |
| 40 05 19 00-2856 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 8,711.35                  | 815.29                  |
| <i>For Class 52 Rating, Deduct</i>  | -822.37                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,136.23                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,696.81                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,249.91                  |                         |
| 40 05 19 00-2857 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 9,049.59                  | 819.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -858.92                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,186.15                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,771.05                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,348.15                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-2858 | EA  |     | 16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 9,387.83               | 823.16               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -895.47                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,236.06               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,845.29               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,446.38               |                      |
| 40 05 19 00-2859 | EA  |     | 16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 9,726.05               | 827.10               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -932.02                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,285.97               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,919.53               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,544.61               |                      |
| 40 05 19 00-2860 | EA  |     | 16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 10,064.29              | 831.04               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -968.57                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,335.88               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,993.77               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,642.85               |                      |
| 40 05 19 00-2861 | EA  |     | 16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 10,402.53              | 834.98               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,005.12              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,385.79               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,068.01               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,741.08               |                      |
| 40 05 19 00-2862 | EA  |     | 16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 10,740.76              | 838.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,041.66              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,435.70               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,142.24               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,839.31               |                      |
| 40 05 19 00-2863 | EA  |     | 16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 11,079.00              | 842.85               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,078.21              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,485.62               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,216.48               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,937.55               |                      |
| 40 05 19 00-2864 | EA  |     | 16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 11,417.24              | 846.79               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,114.76              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,535.53               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,290.72               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,035.78               |                      |
| 40 05 19 00-2865 | EA  |     | 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 11,755.48              | 850.74               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,151.31              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,585.44               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,364.96               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,134.02               |                      |
| 40 05 19 00-2866 | EA  |     | 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 12,093.71              | 854.67               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,187.86              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,635.35               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,439.20               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,232.25               |                      |
| 40 05 19 00-2867 | EA  |     | 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 12,431.96              | 858.61               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,224.41              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,685.27               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,513.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,330.49               |                      |
| 40 05 19 00-2868 | EA  |     | 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 12,770.20              | 862.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,260.96              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,735.18               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,587.68               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,428.72               |                      |
| 40 05 19 00-2869 | EA  |     | 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 13,108.43              | 866.48               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,297.51              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,785.09               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,661.92               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,526.96               |                      |
| 40 05 19 00-2870 | EA  |     | 16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 13,446.67              | 870.42               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,334.06              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,835.00               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,736.16               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,625.19               |                      |
| 40 05 19 00-2871 | EA  |     | 16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 13,784.91              | 874.37               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,370.61              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,884.91               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,810.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,723.43               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2872 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 14,123.14                 | 878.30                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,407.16                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,934.83                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,884.64                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,821.66                  |                         |
| 40 05 19 00-2873 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 14,461.38                 | 882.24                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,443.71                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,984.74                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,958.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,919.89                  |                         |
| 40 05 19 00-2874 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 14,799.62                 | 886.18                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,480.26                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,034.65                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,033.12                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,018.13                  |                         |
| 40 05 19 00-2875 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 15,137.86                 | 890.12                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,516.81                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,084.56                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,107.36                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,116.36                  |                         |
| 40 05 19 00-2876 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 15,476.09                 | 894.06                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,553.36                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,134.47                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,181.60                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,214.60                  |                         |
| 40 05 19 00-2877 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 15,814.33                 | 898.00                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,589.91                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,184.39                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,255.84                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,312.83                  |                         |
| 40 05 19 00-2878 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 16,152.57                 | 901.94                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,626.46                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,234.30                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,330.08                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,411.07                  |                         |
| <b>40 05 19 00-2879 18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2800)</small> |                           |                         |
| 40 05 19 00-2880 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 4,243.47                  | 852.31                  |
| <i>For Class 52 Rating, Deduct</i>   | -324.73                   |                         |
| <i>For Class 54 Rating, Add</i>  | 458.31                    |                         |
| <i>For Class 55 Rating, Add</i>  | 689.31                    |                         |
| <i>For Class 56 Rating, Add</i>  | 917.36                    |                         |
| 40 05 19 00-2881 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 4,632.82                  | 856.26                  |
| <i>For Class 52 Rating, Deduct</i>   | -366.90                   |                         |
| <i>For Class 54 Rating, Add</i>  | 515.89                    |                         |
| <i>For Class 55 Rating, Add</i>  | 774.95                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,030.67                  |                         |
| 40 05 19 00-2882 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 5,022.17                  | 860.19                  |
| <i>For Class 52 Rating, Deduct</i>   | -409.07                   |                         |
| <i>For Class 54 Rating, Add</i>  | 573.47                    |                         |
| <i>For Class 55 Rating, Add</i>  | 860.59                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,143.98                  |                         |
| 40 05 19 00-2883 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 5,411.53                  | 864.13                  |
| <i>For Class 52 Rating, Deduct</i>   | -451.25                   |                         |
| <i>For Class 54 Rating, Add</i>  | 631.05                    |                         |
| <i>For Class 55 Rating, Add</i>  | 946.22                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,257.30                  |                         |
| 40 05 19 00-2884 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 5,800.88                  | 868.07                  |
| <i>For Class 52 Rating, Deduct</i>   | -493.42                   |                         |
| <i>For Class 54 Rating, Add</i>  | 688.63                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,031.86                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,370.61                  |                         |
| 40 05 19 00-2885 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 6,190.24                  | 872.00                  |
| <i>For Class 52 Rating, Deduct</i>   | -535.59                   |                         |
| <i>For Class 54 Rating, Add</i>  | 746.21                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,117.50                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,483.93                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-2886 | EA  |     | 18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,579.60               | 875.94               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -577.77                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 803.79                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,203.14               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,597.24               |                      |
| 40 05 19 00-2887 | EA  |     | 18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 6,968.95               | 879.89               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -619.94                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 861.37                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,288.78               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,710.55               |                      |
| 40 05 19 00-2888 | EA  |     | 18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,358.30               | 883.82               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -662.11                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 918.95                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,374.42               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,823.87               |                      |
| 40 05 19 00-2889 | EA  |     | 18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 7,747.66               | 887.76               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -704.28                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 976.53                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,460.06               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,937.18               |                      |
| 40 05 19 00-2890 | EA  |     | 18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,137.03               | 891.70               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -746.46                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,034.11               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,545.70               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,050.50               |                      |
| 40 05 19 00-2891 | EA  |     | 18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,526.38               | 895.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -788.63                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,091.69               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,631.34               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,163.81               |                      |
| 40 05 19 00-2892 | EA  |     | 18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 8,915.73               | 899.58               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -830.80                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,149.27               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,716.97               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,277.13               |                      |
| 40 05 19 00-2893 | EA  |     | 18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,305.09               | 903.52               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -872.97                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,206.85               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,802.61               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,390.44               |                      |
| 40 05 19 00-2894 | EA  |     | 18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 9,694.44               | 907.46               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -915.15                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,264.43               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,888.25               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,503.76               |                      |
| 40 05 19 00-2895 | EA  |     | 18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,083.80              | 911.39               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -957.32                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,322.01               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,973.89               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,617.07               |                      |
| 40 05 19 00-2896 | EA  |     | 18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,473.16              | 915.33               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -999.49                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,379.59               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,059.53               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,730.39               |                      |
| 40 05 19 00-2897 | EA  |     | 18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....  | 10,862.51              | 919.27               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,041.66              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,437.17               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,145.17               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,843.70               |                      |
| 40 05 19 00-2898 | EA  |     | 18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,251.86              | 923.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,083.84              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,494.75               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,230.81               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,957.01               |                      |
| 40 05 19 00-2899 | EA  |     | 18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe ..... | 11,641.22              | 927.15               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,126.01              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,552.33               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,316.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,070.33               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-2900 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 12,030.58                 | 931.09                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,168.18                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,609.91                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,402.08                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,183.64                  |                         |
| 40 05 19 00-2901 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 12,419.93                 | 935.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,210.36                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,667.49                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,487.72                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,296.96                  |                         |
| 40 05 19 00-2902 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 12,809.28                 | 938.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,252.53                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,725.06                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,573.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,410.27                  |                         |
| 40 05 19 00-2903 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 13,198.64                 | 942.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,294.70                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,782.65                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,659.00                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,523.58                  |                         |
| 40 05 19 00-2904 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 13,587.99                 | 946.84                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,336.87                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,840.23                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,744.64                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,636.90                  |                         |
| 40 05 19 00-2905 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 13,977.35                 | 950.78                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,379.05                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,897.81                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,830.28                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,750.21                  |                         |
| 40 05 19 00-2906 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 14,366.71                 | 954.72                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,421.22                 |                         |
| <i>For Class 54 Rating, Add</i>   | 1,955.39                  |                         |
| <i>For Class 55 Rating, Add</i>   | 2,915.92                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,863.53                  |                         |
| 40 05 19 00-2907 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 14,756.06                 | 958.65                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,463.39                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,012.96                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,001.55                  |                         |
| <i>For Class 56 Rating, Add</i>   | 3,976.84                  |                         |
| 40 05 19 00-2908 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 15,145.41                 | 962.59                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,505.56                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,070.54                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,087.19                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,090.15                  |                         |
| 40 05 19 00-2909 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 15,534.78                 | 966.54                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,547.74                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,128.12                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,172.83                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,203.47                  |                         |
| 40 05 19 00-2910 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 15,924.14                 | 970.47                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,589.91                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,185.70                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,258.47                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,316.79                  |                         |
| 40 05 19 00-2911 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 16,313.49                 | 974.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,632.08                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,243.28                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,344.11                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,430.10                  |                         |
| 40 05 19 00-2912 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 16,702.84                 | 978.35                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,674.26                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,300.86                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,429.75                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,543.41                  |                         |
| 40 05 19 00-2913 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 17,092.20                 | 982.28                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,716.43                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,358.44                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,515.39                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,656.73                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR                   | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2914        | EA  |     | 18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 17,481.56                 | 986.23                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,758.60                 |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,416.02                  |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,601.03                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,770.04                  |                         |
| 40 05 19 00-2915        | EA  |     | 18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 17,870.91                 | 990.17                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,800.77                 |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,473.60                  |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,686.67                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,883.36                  |                         |
| 40 05 19 00-2916        | EA  |     | 18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 18,260.27                 | 994.10                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,842.95                 |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,531.18                  |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,772.30                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,996.67                  |                         |
| 40 05 19 00-2917        | EA  |     | 18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 18,649.62                 | 998.04                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,885.12                 |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,588.76                  |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,857.94                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,109.98                  |                         |
| <b>40 05 19 00-2918</b> |     |     | <b>20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small> |                           |                         |
| 40 05 19 00-2919        | EA  |     | 20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 4,911.69                  | 972.83                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -378.15                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 533.34                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 801.98                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,067.19                  |                         |
| 40 05 19 00-2920        | EA  |     | 20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 5,354.72                  | 976.76                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -426.22                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 598.97                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 899.59                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,196.34                  |                         |
| 40 05 19 00-2921        | EA  |     | 20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 5,797.76                  | 980.71                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -474.30                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 664.61                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 997.20                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,325.49                  |                         |
| 40 05 19 00-2922        | EA  |     | 20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 6,240.78                  | 984.65                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -522.38                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 730.24                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,094.81                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,454.63                  |                         |
| 40 05 19 00-2923        | EA  |     | 20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 6,683.81                  | 988.58                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -570.46                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 795.87                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,192.42                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,583.78                  |                         |
| 40 05 19 00-2924        | EA  |     | 20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 7,126.84                  | 992.52                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -618.53                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 861.50                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,290.03                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,712.93                  |                         |
| 40 05 19 00-2925        | EA  |     | 20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 7,569.88                  | 996.46                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -666.61                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 927.13                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,387.64                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,842.08                  |                         |
| 40 05 19 00-2926        | EA  |     | 20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 8,012.90                  | 1,000.40                |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -714.69                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 992.76                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,485.24                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 1,971.23                  |                         |
| 40 05 19 00-2927        | EA  |     | 20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 8,455.93                  | 1,004.34                |
|                         |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -762.76                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,058.39                  |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i> .....   | 1,582.85                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i> .....   | 2,100.37                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2928 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 8,898.97                  | 1,008.28                |
| <i>For Class 52 Rating, Deduct</i>   | -810.84                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,124.02                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,680.46                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,229.52                  |                         |
| 40 05 19 00-2929 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 9,342.00                  | 1,012.21                |
| <i>For Class 52 Rating, Deduct</i>   | -858.92                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,189.65                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,778.07                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,358.67                  |                         |
| 40 05 19 00-2930 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 9,785.03                  | 1,016.15                |
| <i>For Class 52 Rating, Deduct</i>   | -906.99                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,255.29                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,875.68                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,487.82                  |                         |
| 40 05 19 00-2931 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 10,228.06                 | 1,020.09                |
| <i>For Class 52 Rating, Deduct</i>   | -955.07                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,320.92                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,973.28                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,616.97                  |                         |
| 40 05 19 00-2932 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 10,671.08                 | 1,024.03                |
| <i>For Class 52 Rating, Deduct</i>   | -1,003.15                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,386.55                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,070.89                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,746.11                  |                         |
| 40 05 19 00-2933 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 11,114.11                 | 1,027.97                |
| <i>For Class 52 Rating, Deduct</i>   | -1,051.22                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,452.18                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,168.50                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,875.26                  |                         |
| 40 05 19 00-2934 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 11,557.15                 | 1,031.91                |
| <i>For Class 52 Rating, Deduct</i>   | -1,099.30                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,517.81                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,266.11                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,004.41                  |                         |
| 40 05 19 00-2935 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 12,000.18                 | 1,035.84                |
| <i>For Class 52 Rating, Deduct</i>   | -1,147.38                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,583.44                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,363.72                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,133.56                  |                         |
| 40 05 19 00-2936 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 12,443.20                 | 1,039.78                |
| <i>For Class 52 Rating, Deduct</i>   | -1,195.45                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,649.07                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,461.32                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,262.71                  |                         |
| 40 05 19 00-2937 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 12,886.23                 | 1,043.73                |
| <i>For Class 52 Rating, Deduct</i>   | -1,243.53                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,714.70                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,558.93                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,391.86                  |                         |
| 40 05 19 00-2938 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 13,329.27                 | 1,047.67                |
| <i>For Class 52 Rating, Deduct</i>   | -1,291.61                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,780.33                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,656.54                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,521.01                  |                         |
| 40 05 19 00-2939 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 13,772.29                 | 1,051.60                |
| <i>For Class 52 Rating, Deduct</i>   | -1,339.69                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,845.96                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,754.15                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,650.15                  |                         |
| 40 05 19 00-2940 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 14,215.32                 | 1,055.54                |
| <i>For Class 52 Rating, Deduct</i>   | -1,387.76                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,911.59                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,851.76                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,779.30                  |                         |
| 40 05 19 00-2941 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 14,658.35                 | 1,059.48                |
| <i>For Class 52 Rating, Deduct</i>   | -1,435.84                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,977.23                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,949.36                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,908.45                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-2942 | EA  |     | 20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 15,101.38                 | 1,063.41                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,483.92                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,042.86                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,046.97                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,037.60                  |                         |
| 40 05 19 00-2943 | EA  |     | 20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 15,544.41                 | 1,067.36                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,531.99                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,108.49                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,144.58                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,166.75                  |                         |
| 40 05 19 00-2944 | EA  |     | 20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 15,987.44                 | 1,071.30                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,580.07                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,174.12                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,242.19                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,295.89                  |                         |
| 40 05 19 00-2945 | EA  |     | 20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 16,430.47                 | 1,075.23                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,628.15                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,239.75                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,339.80                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,425.04                  |                         |
| 40 05 19 00-2946 | EA  |     | 20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 16,873.50                 | 1,079.17                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,676.22                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,305.38                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,437.41                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,554.19                  |                         |
| 40 05 19 00-2947 | EA  |     | 20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 17,316.53                 | 1,083.11                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,724.30                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,371.01                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,535.01                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,683.34                  |                         |
| 40 05 19 00-2948 | EA  |     | 20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 17,759.57                 | 1,087.05                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,772.38                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,436.64                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,632.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,812.49                  |                         |
| 40 05 19 00-2949 | EA  |     | 20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 18,202.59                 | 1,090.99                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,820.45                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,502.27                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,730.23                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,941.63                  |                         |
| 40 05 19 00-2950 | EA  |     | 20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 18,645.62                 | 1,094.93                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,868.53                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,567.90                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,827.84                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,070.78                  |                         |
| 40 05 19 00-2951 | EA  |     | 20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 19,088.66                 | 1,098.86                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,916.61                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,633.54                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,925.45                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,199.93                  |                         |
| 40 05 19 00-2952 | EA  |     | 20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 19,531.68                 | 1,102.80                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,964.68                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,699.17                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,023.05                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,329.08                  |                         |
| 40 05 19 00-2953 | EA  |     | 20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 19,974.71                 | 1,106.74                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,012.76                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,764.80                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,120.66                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,458.23                  |                         |
| 40 05 19 00-2954 | EA  |     | 20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 20,417.74                 | 1,110.68                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,060.84                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,830.43                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,218.27                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,587.38                  |                         |
| 40 05 19 00-2955 | EA  |     | 20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 20,860.78                 | 1,114.62                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,108.92                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,896.06                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,315.88                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,716.53                  |                         |



| MINOR   | TOTAL DIRECT | DEMOLITION |
|---|--------------|------------|
| CSI UOM DESCRIPTION   | UNIT COST    | UNIT COST  |
| 40 05 19 00-2956 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 21,303.80    | 1,118.56   |
| <i>For Class 52 Rating, Deduct</i>  | -2,156.99    |            |
| <i>For Class 54 Rating, Add</i>   | 2,961.69     |            |
| <i>For Class 55 Rating, Add</i>   | 4,413.49     |            |
| <i>For Class 56 Rating, Add</i>   | 5,845.67     |            |
| <b>40 05 19 00-2957 24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(#40 05 19 00-2600)</small> |              |            |
| 40 05 19 00-2958 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 6,082.47     | 1,150.06   |
| <i>For Class 52 Rating, Deduct</i>  | -477.39      |            |
| <i>For Class 54 Rating, Add</i>   | 671.90       |            |
| <i>For Class 55 Rating, Add</i>   | 1,009.63     |            |
| <i>For Class 56 Rating, Add</i>   | 1,343.02     |            |
| 40 05 19 00-2959 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 6,630.30     | 1,154.01   |
| <i>For Class 52 Rating, Deduct</i>  | -537.00      |            |
| <i>For Class 54 Rating, Add</i>   | 753.25       |            |
| <i>For Class 55 Rating, Add</i>   | 1,130.61     |            |
| <i>For Class 56 Rating, Add</i>   | 1,503.08     |            |
| 40 05 19 00-2960 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 7,178.12     | 1,157.94   |
| <i>For Class 52 Rating, Deduct</i>  | -596.60      |            |
| <i>For Class 54 Rating, Add</i>   | 834.60       |            |
| <i>For Class 55 Rating, Add</i>   | 1,251.58     |            |
| <i>For Class 56 Rating, Add</i>   | 1,663.14     |            |
| 40 05 19 00-2961 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 7,725.95     | 1,161.88   |
| <i>For Class 52 Rating, Deduct</i>  | -656.21      |            |
| <i>For Class 54 Rating, Add</i>   | 915.95       |            |
| <i>For Class 55 Rating, Add</i>   | 1,372.56     |            |
| <i>For Class 56 Rating, Add</i>   | 1,823.20     |            |
| 40 05 19 00-2962 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 8,273.77     | 1,165.82   |
| <i>For Class 52 Rating, Deduct</i>  | -715.81      |            |
| <i>For Class 54 Rating, Add</i>   | 997.30       |            |
| <i>For Class 55 Rating, Add</i>   | 1,493.54     |            |
| <i>For Class 56 Rating, Add</i>   | 1,983.26     |            |
| 40 05 19 00-2963 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 8,821.59     | 1,169.75   |
| <i>For Class 52 Rating, Deduct</i>  | -775.42      |            |
| <i>For Class 54 Rating, Add</i>   | 1,078.65     |            |
| <i>For Class 55 Rating, Add</i>   | 1,614.51     |            |
| <i>For Class 56 Rating, Add</i>   | 2,143.33     |            |
| 40 05 19 00-2964 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 9,369.41     | 1,173.70   |
| <i>For Class 52 Rating, Deduct</i>  | -835.02      |            |
| <i>For Class 54 Rating, Add</i>   | 1,160.00     |            |
| <i>For Class 55 Rating, Add</i>   | 1,735.49     |            |
| <i>For Class 56 Rating, Add</i>   | 2,303.39     |            |
| 40 05 19 00-2965 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 9,917.24     | 1,177.64   |
| <i>For Class 52 Rating, Deduct</i>  | -894.62      |            |
| <i>For Class 54 Rating, Add</i>   | 1,241.35     |            |
| <i>For Class 55 Rating, Add</i>   | 1,856.47     |            |
| <i>For Class 56 Rating, Add</i>   | 2,463.45     |            |
| 40 05 19 00-2966 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 10,465.06    | 1,181.57   |
| <i>For Class 52 Rating, Deduct</i>  | -954.23      |            |
| <i>For Class 54 Rating, Add</i>   | 1,322.70     |            |
| <i>For Class 55 Rating, Add</i>   | 1,977.44     |            |
| <i>For Class 56 Rating, Add</i>   | 2,623.51     |            |
| 40 05 19 00-2967 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 11,012.88    | 1,185.51   |
| <i>For Class 52 Rating, Deduct</i>  | -1,013.83    |            |
| <i>For Class 54 Rating, Add</i>   | 1,404.05     |            |
| <i>For Class 55 Rating, Add</i>   | 2,098.42     |            |
| <i>For Class 56 Rating, Add</i>   | 2,783.58     |            |
| 40 05 19 00-2968 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 11,560.70    | 1,189.45   |
| <i>For Class 52 Rating, Deduct</i>  | -1,073.44    |            |
| <i>For Class 54 Rating, Add</i>   | 1,485.40     |            |
| <i>For Class 55 Rating, Add</i>   | 2,219.40     |            |
| <i>For Class 56 Rating, Add</i>   | 2,943.64     |            |
| 40 05 19 00-2969 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                       | 12,108.53    | 1,193.38   |
| <i>For Class 52 Rating, Deduct</i>  | -1,133.04    |            |
| <i>For Class 54 Rating, Add</i>   | 1,566.75     |            |
| <i>For Class 55 Rating, Add</i>   | 2,340.38     |            |
| <i>For Class 56 Rating, Add</i>   | 3,103.70     |            |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-2970 | EA  |     | 24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 12,656.34                 | 1,197.33                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,192.64                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,648.10                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,461.35                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,263.76                  |                         |
| 40 05 19 00-2971 | EA  |     | 24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 13,204.17                 | 1,201.27                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,252.25                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,729.45                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,582.33                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,423.82                  |                         |
| 40 05 19 00-2972 | EA  |     | 24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 13,751.99                 | 1,205.20                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,311.85                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,810.80                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,703.31                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,583.88                  |                         |
| 40 05 19 00-2973 | EA  |     | 24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 14,299.81                 | 1,209.14                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,371.46                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,892.15                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,824.28                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,743.95                  |                         |
| 40 05 19 00-2974 | EA  |     | 24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 14,847.63                 | 1,213.08                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,431.06                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 1,973.50                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 2,945.26                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 3,904.01                  |                         |
| 40 05 19 00-2975 | EA  |     | 24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 15,395.46                 | 1,217.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,490.66                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,054.85                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,066.24                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,064.07                  |                         |
| 40 05 19 00-2976 | EA  |     | 24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 15,943.28                 | 1,220.96                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,550.27                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,136.20                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,187.21                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,224.13                  |                         |
| 40 05 19 00-2977 | EA  |     | 24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 16,491.10                 | 1,224.90                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,609.87                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,217.55                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,308.19                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,384.20                  |                         |
| 40 05 19 00-2978 | EA  |     | 24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 17,038.92                 | 1,228.84                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,669.48                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,298.90                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,429.17                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,544.26                  |                         |
| 40 05 19 00-2979 | EA  |     | 24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 17,586.76                 | 1,232.77                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,729.08                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,380.25                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,550.15                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,704.32                  |                         |
| 40 05 19 00-2980 | EA  |     | 24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 18,134.57                 | 1,236.72                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,788.68                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,461.60                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,671.12                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 4,864.38                  |                         |
| 40 05 19 00-2981 | EA  |     | 24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 18,682.40                 | 1,240.66                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,848.29                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,542.95                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,792.10                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 5,024.44                  |                         |
| 40 05 19 00-2982 | EA  |     | 24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 19,230.22                 | 1,244.59                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,907.89                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,624.30                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 3,913.07                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 5,184.51                  |                         |
| 40 05 19 00-2983 | EA  |     | 24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 19,778.04                 | 1,248.53                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....   | -1,967.50                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....  | 2,705.65                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....  | 4,034.05                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....  | 5,344.57                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-2984 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 20,325.86                 | 1,252.47                |
| <i>For Class 52 Rating, Deduct</i>   | -2,027.10                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,787.00                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,155.03                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,504.63                  |                         |
| 40 05 19 00-2985 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 20,873.69                 | 1,256.40                |
| <i>For Class 52 Rating, Deduct</i>   | -2,086.70                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,868.35                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,276.01                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,664.69                  |                         |
| 40 05 19 00-2986 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 21,421.51                 | 1,260.35                |
| <i>For Class 52 Rating, Deduct</i>   | -2,146.31                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,949.70                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,396.98                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,824.75                  |                         |
| 40 05 19 00-2987 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 22,070.78                 | 1,331.24                |
| <i>For Class 52 Rating, Deduct</i>   | -2,205.91                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,032.27                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,520.39                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,988.47                  |                         |
| 40 05 19 00-2988 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 22,618.60                 | 1,335.18                |
| <i>For Class 52 Rating, Deduct</i>   | -2,265.52                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,113.62                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,641.37                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,148.53                  |                         |
| 40 05 19 00-2989 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 23,166.43                 | 1,339.11                |
| <i>For Class 52 Rating, Deduct</i>   | -2,325.12                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,194.97                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,762.35                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,308.59                  |                         |
| 40 05 19 00-2990 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 23,714.24                 | 1,343.05                |
| <i>For Class 52 Rating, Deduct</i>   | -2,384.72                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,276.32                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,883.32                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,468.65                  |                         |
| 40 05 19 00-2991 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 24,262.07                 | 1,347.00                |
| <i>For Class 52 Rating, Deduct</i>   | -2,444.33                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,357.67                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,004.30                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,628.72                  |                         |
| 40 05 19 00-2992 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 24,807.34                 | 1,350.93                |
| <i>For Class 52 Rating, Deduct</i>   | -2,503.65                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,438.63                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,124.71                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,788.03                  |                         |
| 40 05 19 00-2993 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 25,357.71                 | 1,354.87                |
| <i>For Class 52 Rating, Deduct</i>   | -2,563.54                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,520.37                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,246.26                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,948.84                  |                         |
| 40 05 19 00-2994 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 25,905.53                 | 1,358.81                |
| <i>For Class 52 Rating, Deduct</i>   | -2,623.14                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,601.72                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,367.23                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,108.90                  |                         |
| 40 05 19 00-2995 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 26,453.36                 | 1,362.74                |
| <i>For Class 52 Rating, Deduct</i>   | -2,682.74                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,683.07                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,488.21                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,268.97                  |                         |
| <b>40 05 19 00-2996 30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small> |                           |                         |
| 40 05 19 00-2997 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                      | 9,293.16                  | 1,622.69                |
| <i>For Class 52 Rating, Deduct</i>   | -751.80                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,054.68                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,583.11                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,104.70                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-2998 | EA  | 30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 10,076.13                 | 1,626.64                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -837.27                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,171.30                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,756.52                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,334.13                  |                         |
| 40 05 19 00-2999 | EA  | 30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 10,859.10                 | 1,630.57                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -922.74                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,287.93                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,929.94                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,563.56                  |                         |
| 40 05 19 00-3000 | EA  | 30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 11,642.06                 | 1,634.51                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,008.21                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,404.55                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,103.35                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 2,792.99                  |                         |
| 40 05 19 00-3001 | EA  | 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 12,425.03                 | 1,638.45                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,093.68                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,521.17                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,276.76                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,022.42                  |                         |
| 40 05 19 00-3002 | EA  | 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 13,208.00                 | 1,642.38                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,179.15                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,637.79                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,450.18                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,251.85                  |                         |
| 40 05 19 00-3003 | EA  | 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 13,990.96                 | 1,646.33                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,264.62                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,754.41                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,623.59                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,481.28                  |                         |
| 40 05 19 00-3004 | EA  | 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 14,773.93                 | 1,650.27                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,350.09                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,871.03                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,797.01                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,710.71                  |                         |
| 40 05 19 00-3005 | EA  | 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 15,556.90                 | 1,654.20                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,435.56                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 1,987.66                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 2,970.42                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 3,940.14                  |                         |
| 40 05 19 00-3006 | EA  | 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 16,339.86                 | 1,658.14                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,521.03                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,104.28                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,143.84                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,169.57                  |                         |
| 40 05 19 00-3007 | EA  | 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 17,122.83                 | 1,662.08                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,606.50                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,220.90                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,317.25                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,399.00                  |                         |
| 40 05 19 00-3008 | EA  | 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 17,905.80                 | 1,666.01                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,691.97                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,337.52                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,490.66                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,628.43                  |                         |
| 40 05 19 00-3009 | EA  | 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 18,688.77                 | 1,669.96                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,777.44                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,454.14                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,664.08                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 4,857.85                  |                         |
| 40 05 19 00-3010 | EA  | 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 19,471.73                 | 1,673.90                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,862.91                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,570.76                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 3,837.49                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 5,087.28                  |                         |
| 40 05 19 00-3011 | EA  | 30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe ..... | 20,254.70                 | 1,677.83                |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -1,948.38                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 2,687.39                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 4,010.91                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 5,316.71                  |                         |



|  |          |
|--|----------|
| Process Interconnections                         | 40       |
| Common Work Results For Process Interconnections | 40 05    |
| Ductile Iron Process Pipe                        | 40 05 19 |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3012 EA 30" Flanged x Grooved (FxD), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 21,037.68                 | 1,681.77                |
| <i>For Class 52 Rating, Deduct</i>   | -2,033.85                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,804.01                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,184.32                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,546.14                  |                         |
| 40 05 19 00-3013 EA 30" Flanged x Grooved (FxD), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 21,820.63                 | 1,685.71                |
| <i>For Class 52 Rating, Deduct</i>   | -2,119.32                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,920.63                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,357.73                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,775.57                  |                         |
| 40 05 19 00-3014 EA 30" Flanged x Grooved (FxD), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 22,603.60                 | 1,689.65                |
| <i>For Class 52 Rating, Deduct</i>   | -2,204.79                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,037.25                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,531.15                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,005.00                  |                         |
| 40 05 19 00-3015 EA 30" Flanged x Grooved (FxD), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 23,386.57                 | 1,693.59                |
| <i>For Class 52 Rating, Deduct</i>   | -2,290.26                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,153.87                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,704.56                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,234.43                  |                         |
| 40 05 19 00-3016 EA 30" Flanged x Grooved (FxD), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 24,169.53                 | 1,697.53                |
| <i>For Class 52 Rating, Deduct</i>   | -2,375.73                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,270.49                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,877.98                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,463.86                  |                         |
| 40 05 19 00-3017 EA 30" Flanged x Grooved (FxD), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 24,952.50                 | 1,701.47                |
| <i>For Class 52 Rating, Deduct</i>   | -2,461.20                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,387.11                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,051.39                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,693.29                  |                         |
| 40 05 19 00-3018 EA 30" Flanged x Grooved (FxD), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 25,735.47                 | 1,705.40                |
| <i>For Class 52 Rating, Deduct</i>   | -2,546.67                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,503.74                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,224.80                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,922.72                  |                         |
| 40 05 19 00-3019 EA 30" Flanged x Grooved (FxD), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 26,518.44                 | 1,709.34                |
| <i>For Class 52 Rating, Deduct</i>   | -2,632.14                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,620.36                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,398.22                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,152.15                  |                         |
| 40 05 19 00-3020 EA 30" Flanged x Grooved (FxD), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 27,301.40                 | 1,713.29                |
| <i>For Class 52 Rating, Deduct</i>   | -2,717.61                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,736.98                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,571.63                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,381.58                  |                         |
| 40 05 19 00-3021 EA 30" Flanged x Grooved (FxD), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 28,084.37                 | 1,717.22                |
| <i>For Class 52 Rating, Deduct</i>   | -2,803.08                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,853.60                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,745.05                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,611.01                  |                         |
| 40 05 19 00-3022 EA 30" Flanged x Grooved (FxD), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 28,867.34                 | 1,721.16                |
| <i>For Class 52 Rating, Deduct</i>   | -2,888.55                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,970.22                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,918.46                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,840.44                  |                         |
| 40 05 19 00-3023 EA 30" Flanged x Grooved (FxD), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 29,650.30                 | 1,725.10                |
| <i>For Class 52 Rating, Deduct</i>   | -2,974.02                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,086.84                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,091.87                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,069.87                  |                         |
| 40 05 19 00-3024 EA 30" Flanged x Grooved (FxD), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 30,433.27                 | 1,729.03                |
| <i>For Class 52 Rating, Deduct</i>   | -3,059.49                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,203.47                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,265.29                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,299.30                  |                         |
| 40 05 19 00-3025 EA 30" Flanged x Grooved (FxD), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 31,216.24                 | 1,732.98                |
| <i>For Class 52 Rating, Deduct</i>   | -3,144.96                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,320.09                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,438.70                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,528.73                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-3026 | EA  |     | 30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 31,999.20              | 1,736.92             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,230.43              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,436.71               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,612.12               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,758.16               |                      |
| 40 05 19 00-3027 | EA  |     | 30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 32,782.17              | 1,740.85             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,315.90              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,553.33               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,785.53               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 8,987.59               |                      |
| 40 05 19 00-3028 | EA  |     | 30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 33,565.14              | 1,744.79             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,401.37              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,669.95               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 6,958.95               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,217.02               |                      |
| 40 05 19 00-3029 | EA  |     | 30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 34,348.11              | 1,748.73             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,486.84              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,786.57               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,132.36               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,446.45               |                      |
| 40 05 19 00-3030 | EA  |     | 30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 35,131.07              | 1,752.66             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,572.31              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 4,903.19               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,305.77               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,675.88               |                      |
| 40 05 19 00-3031 | EA  |     | 30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                        | 35,914.05              | 1,756.61             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -3,657.78              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 5,019.82               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 7,479.19               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 9,905.31               |                      |
| 40 05 19 00-3032 |     |     | <b>36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small> |                        |                      |
| 40 05 19 00-3033 | EA  |     | 36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 12,778.99              | 2,055.94             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,063.03              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,486.97               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,229.82               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,963.00               |                      |
| 40 05 19 00-3034 | EA  |     | 36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 13,827.78              | 2,059.88             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,177.74              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,643.46               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,462.51               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,270.85               |                      |
| 40 05 19 00-3035 | EA  |     | 36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 14,876.56              | 2,063.82             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,292.45              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,799.96               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,695.20               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,578.69               |                      |
| 40 05 19 00-3036 | EA  |     | 36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 15,925.34              | 2,067.75             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,407.16              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,956.45               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,927.89               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,886.54               |                      |
| 40 05 19 00-3037 | EA  |     | 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 16,974.13              | 2,071.69             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,521.87              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,112.95               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 3,160.58               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 4,194.39               |                      |
| 40 05 19 00-3038 | EA  |     | 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 18,022.91              | 2,075.64             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,636.58              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,269.44               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 3,393.27               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 4,502.23               |                      |
| 40 05 19 00-3039 | EA  |     | 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                         | 19,071.70              | 2,079.57             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,751.29              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 2,425.93               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 3,625.97               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 4,810.08               |                      |



|  |          |
|--|----------|
| Process Interconnections                         | 40       |
| Common Work Results For Process Interconnections | 40 05    |
| Ductile Iron Process Pipe                        | 40 05 19 |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3040 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 20,120.47                 | 2,083.51                |
| <i>For Class 52 Rating, Deduct</i>   | -1,866.00                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,582.43                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,858.66                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,117.92                  |                         |
| 40 05 19 00-3041 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 21,169.26                 | 2,087.45                |
| <i>For Class 52 Rating, Deduct</i>   | -1,980.71                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,738.92                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,091.35                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,425.77                  |                         |
| 40 05 19 00-3042 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 22,218.04                 | 2,091.38                |
| <i>For Class 52 Rating, Deduct</i>   | -2,095.42                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,895.42                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,324.04                  |                         |
| <i>For Class 56 Rating, Add</i>  | 5,733.61                  |                         |
| 40 05 19 00-3043 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 23,266.82                 | 2,095.32                |
| <i>For Class 52 Rating, Deduct</i>   | -2,210.13                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,051.91                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,556.73                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,041.46                  |                         |
| 40 05 19 00-3044 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 24,315.60                 | 2,099.27                |
| <i>For Class 52 Rating, Deduct</i>   | -2,324.84                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,208.40                  |                         |
| <i>For Class 55 Rating, Add</i>  | 4,789.42                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,349.30                  |                         |
| 40 05 19 00-3045 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 25,364.39                 | 2,103.20                |
| <i>For Class 52 Rating, Deduct</i>   | -2,439.55                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,364.90                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,022.11                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,657.15                  |                         |
| 40 05 19 00-3046 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 26,413.16                 | 2,107.14                |
| <i>For Class 52 Rating, Deduct</i>   | -2,554.26                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,521.39                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,254.80                  |                         |
| <i>For Class 56 Rating, Add</i>  | 6,964.99                  |                         |
| 40 05 19 00-3047 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 27,461.95                 | 2,111.08                |
| <i>For Class 52 Rating, Deduct</i>   | -2,668.97                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,677.89                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,487.49                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,272.84                  |                         |
| 40 05 19 00-3048 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 28,510.73                 | 2,115.01                |
| <i>For Class 52 Rating, Deduct</i>   | -2,783.68                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,834.38                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,720.18                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,580.68                  |                         |
| 40 05 19 00-3049 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 29,559.52                 | 2,118.96                |
| <i>For Class 52 Rating, Deduct</i>   | -2,898.39                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,990.87                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,952.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,888.53                  |                         |
| 40 05 19 00-3050 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,<br>Ductile Iron Pipe .....  | 30,608.29                 | 2,122.90                |
| <i>For Class 52 Rating, Deduct</i>   | -3,013.10                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,147.37                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,185.57                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,196.37                  |                         |
| 40 05 19 00-3051 EA 36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 31,657.08                 | 2,126.83                |
| <i>For Class 52 Rating, Deduct</i>   | -3,127.81                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,303.86                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,418.26                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,504.22                  |                         |
| 40 05 19 00-3052 EA 36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 32,705.88                 | 2,130.77                |
| <i>For Class 52 Rating, Deduct</i>   | -3,242.52                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,460.36                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,650.95                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,812.07                  |                         |
| 40 05 19 00-3053 EA 36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe ..... | 33,754.65                 | 2,134.71                |
| <i>For Class 52 Rating, Deduct</i>   | -3,357.23                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,616.85                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,883.64                  |                         |
| <i>For Class 56 Rating, Add</i>  | 9,119.91                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|--|---------------------------|-------------------------|
| 40 05 19 00-3054 | EA  | 36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 34,803.44                 | 2,138.64                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -3,471.94                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 4,773.34                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 7,116.33                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 9,427.76                  |                         |
| 40 05 19 00-3055 | EA  | 36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 35,852.22                 | 2,142.59                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -3,586.65                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 4,929.84                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 7,349.02                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 9,735.60                  |                         |
| 40 05 19 00-3056 | EA  | 36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 36,901.00                 | 2,146.53                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -3,701.36                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 5,086.33                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 7,581.71                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 10,043.45                 |                         |
| 40 05 19 00-3057 | EA  | 36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 37,949.78                 | 2,150.46                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -3,816.07                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 5,242.82                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 7,814.40                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 10,351.29                 |                         |
| 40 05 19 00-3058 | EA  | 36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 38,998.57                 | 2,154.40                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -3,930.78                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 5,399.32                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 8,047.10                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 10,659.14                 |                         |
| 40 05 19 00-3059 | EA  | 36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 40,047.35                 | 2,158.34                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,045.48                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 5,555.81                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 8,279.79                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 10,966.98                 |                         |
| 40 05 19 00-3060 | EA  | 36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 41,096.13                 | 2,162.28                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,160.19                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 5,712.31                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 8,512.48                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 11,274.83                 |                         |
| 40 05 19 00-3061 | EA  | 36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 42,144.91                 | 2,166.22                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,274.90                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 5,868.80                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 8,745.17                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 11,582.67                 |                         |
| 40 05 19 00-3062 | EA  | 36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 43,193.70                 | 2,170.16                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,389.61                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 6,025.29                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 8,977.86                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 11,890.52                 |                         |
| 40 05 19 00-3063 | EA  | 36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 44,242.47                 | 2,174.09                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,504.32                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 6,181.79                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 9,210.55                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 12,198.36                 |                         |
| 40 05 19 00-3064 | EA  | 36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 45,291.26                 | 2,178.03                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,619.03                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 6,338.28                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 9,443.24                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 12,506.21                 |                         |
| 40 05 19 00-3065 | EA  | 36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 46,340.04                 | 2,181.97                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,733.74                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 6,494.78                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 9,675.93                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 12,814.05                 |                         |
| 40 05 19 00-3066 | EA  | 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 47,388.82                 | 2,185.92                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,848.45                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 6,651.27                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 9,908.62                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 13,121.90                 |                         |
| 40 05 19 00-3067 | EA  | 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 48,437.61                 | 2,189.85                |
|                  |     | <i>For Class 52 Rating, Deduct</i>   | -4,963.16                 |                         |
|                  |     | <i>For Class 54 Rating, Add</i>  | 6,807.76                  |                         |
|                  |     | <i>For Class 55 Rating, Add</i>  | 10,141.31                 |                         |
|                  |     | <i>For Class 56 Rating, Add</i>  | 13,429.75                 |                         |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-3068 |       |     |     | Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>              |                        |                      |
| 40 05 19 00-3069 |       |     |     | 4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small> |                        |                      |
| 40 05 19 00-3070 | EA    |     |     | 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 723.79                 | 192.62               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -47.51                 |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 68.29                  |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 103.33                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 137.93                 |                      |
| 40 05 19 00-3071 | EA    |     |     | 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 826.03                 | 195.99               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -58.20                 |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 82.93                  |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 125.11                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 166.77                 |                      |
| 40 05 19 00-3072 | EA    |     |     | 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 928.25                 | 199.36               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -68.88                 |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 97.55                  |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 146.89                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 195.60                 |                      |
| 40 05 19 00-3073 | EA    |     |     | 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,030.48               | 202.72               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -79.57                 |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 112.19                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 168.67                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 224.44                 |                      |
| 40 05 19 00-3074 | EA    |     |     | 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,132.70               | 206.09               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -90.25                 |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 126.81                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 190.45                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 253.27                 |                      |
| 40 05 19 00-3075 | EA    |     |     | 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,234.94               | 209.46               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -100.93                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 141.45                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 212.24                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 282.11                 |                      |
| 40 05 19 00-3076 | EA    |     |     | 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,337.16               | 212.83               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -111.62                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 156.07                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 234.02                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 310.95                 |                      |
| 40 05 19 00-3077 | EA    |     |     | 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,439.39               | 216.19               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -122.30                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 170.71                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 255.80                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 339.78                 |                      |
| 40 05 19 00-3078 | EA    |     |     | 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,541.61               | 219.56               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -132.98                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 185.33                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 277.58                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 368.62                 |                      |
| 40 05 19 00-3079 | EA    |     |     | 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,643.84               | 222.93               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -143.67                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 199.97                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 299.36                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 397.45                 |                      |
| 40 05 19 00-3080 | EA    |     |     | 4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,746.07               | 226.29               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -154.35                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 214.59                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 321.14                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 426.29                 |                      |
| 40 05 19 00-3081 | EA    |     |     | 4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,848.29               | 229.66               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -165.04                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 229.22                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 342.92                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 455.12                 |                      |
| 40 05 19 00-3082 | EA    |     |     | 4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....              | 1,950.52               | 233.03               |
|                  |       |     |     | For Class 52 Rating, Deduct.....   | -175.72                |                      |
|                  |       |     |     | For Class 54 Rating, Add.....  | 243.85                 |                      |
|                  |       |     |     | For Class 55 Rating, Add.....  | 364.71                 |                      |
|                  |       |     |     | For Class 56 Rating, Add.....  | 483.96                 |                      |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-3083 | EA  |     | 4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,052.75                  | 236.40                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -186.40                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 258.49                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 386.49                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 512.80                    |                         |
| 40 05 19 00-3084 | EA  |     | 4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,154.97                  | 239.76                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -197.09                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 273.11                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 408.27                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 541.63                    |                         |
| 40 05 19 00-3085 | EA  |     | 4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,257.20                  | 243.13                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -207.77                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 287.74                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 430.05                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 570.46                    |                         |
| 40 05 19 00-3086 | EA  |     | 4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,359.43                  | 246.51                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -218.45                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 302.37                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 451.83                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 599.30                    |                         |
| 40 05 19 00-3087 | EA  |     | 4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,461.65                  | 249.86                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -229.14                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 317.00                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 473.61                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 628.13                    |                         |
| 40 05 19 00-3088 | EA  |     | 4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,563.88                  | 253.24                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -239.82                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 331.63                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 495.39                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 656.97                    |                         |
| 40 05 19 00-3089 | EA  |     | 4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,666.11                  | 256.60                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -250.51                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 346.26                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 517.17                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 685.81                    |                         |
| 40 05 19 00-3090 | EA  |     | 4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,768.34                  | 259.98                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -261.19                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 360.89                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 538.96                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 714.64                    |                         |
| 40 05 19 00-3091 | EA  |     | 4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,870.56                  | 263.33                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -271.87                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 375.52                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 560.74                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 743.48                    |                         |
| 40 05 19 00-3092 | EA  |     | 4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,972.79                  | 266.71                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -282.56                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 390.15                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 582.52                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 772.31                    |                         |
| 40 05 19 00-3093 | EA  |     | 4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,075.01                  | 270.07                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -293.24                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 404.78                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 604.30                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 801.15                    |                         |
| 40 05 19 00-3094 | EA  |     | 4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,427.73                  | 273.44                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -331.48                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 456.99                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 681.94                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 903.88                    |                         |
| 40 05 19 00-3095 | EA  |     | 4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,529.95                  | 276.80                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -342.16                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 471.62                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 703.72                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 932.71                    |                         |
| 40 05 19 00-3096 | EA  |     | 4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,632.18                  | 280.18                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -352.84                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 486.25                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 725.50                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 961.55                    |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3097 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 3,734.40                  | 283.54                  |
| <i>For Class 52 Rating, Deduct</i>   | -363.53                   |                         |
| <i>For Class 54 Rating, Add</i>  | 500.88                    |                         |
| <i>For Class 55 Rating, Add</i>  | 747.28                    |                         |
| <i>For Class 56 Rating, Add</i>  | 990.38                    |                         |
| 40 05 19 00-3098 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 3,836.63                  | 286.91                  |
| <i>For Class 52 Rating, Deduct</i>   | -374.21                   |                         |
| <i>For Class 54 Rating, Add</i>  | 515.51                    |                         |
| <i>For Class 55 Rating, Add</i>  | 769.06                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,019.22                  |                         |
| 40 05 19 00-3099 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 3,938.86                  | 290.27                  |
| <i>For Class 52 Rating, Deduct</i>   | -384.90                   |                         |
| <i>For Class 54 Rating, Add</i>  | 530.14                    |                         |
| <i>For Class 55 Rating, Add</i>  | 790.84                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,048.05                  |                         |
| 40 05 19 00-3100 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,041.09                  | 293.65                  |
| <i>For Class 52 Rating, Deduct</i>   | -395.58                   |                         |
| <i>For Class 54 Rating, Add</i>  | 544.77                    |                         |
| <i>For Class 55 Rating, Add</i>  | 812.63                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,076.89                  |                         |
| 40 05 19 00-3101 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,143.31                  | 297.02                  |
| <i>For Class 52 Rating, Deduct</i>   | -406.26                   |                         |
| <i>For Class 54 Rating, Add</i>  | 559.40                    |                         |
| <i>For Class 55 Rating, Add</i>  | 834.41                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,105.72                  |                         |
| 40 05 19 00-3102 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,245.54                  | 300.38                  |
| <i>For Class 52 Rating, Deduct</i>   | -416.95                   |                         |
| <i>For Class 54 Rating, Add</i>  | 574.03                    |                         |
| <i>For Class 55 Rating, Add</i>  | 856.19                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,134.56                  |                         |
| 40 05 19 00-3103 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,347.77                  | 303.75                  |
| <i>For Class 52 Rating, Deduct</i>   | -427.63                   |                         |
| <i>For Class 54 Rating, Add</i>  | 588.66                    |                         |
| <i>For Class 55 Rating, Add</i>  | 877.97                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,163.40                  |                         |
| 40 05 19 00-3104 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,450.00                  | 307.12                  |
| <i>For Class 52 Rating, Deduct</i>   | -438.31                   |                         |
| <i>For Class 54 Rating, Add</i>  | 603.29                    |                         |
| <i>For Class 55 Rating, Add</i>  | 899.75                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,192.23                  |                         |
| 40 05 19 00-3105 EA 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,552.22                  | 310.47                  |
| <i>For Class 52 Rating, Deduct</i>   | -449.00                   |                         |
| <i>For Class 54 Rating, Add</i>  | 617.92                    |                         |
| <i>For Class 55 Rating, Add</i>  | 921.53                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,221.07                  |                         |
| 40 05 19 00-3106 EA 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,654.45                  | 313.85                  |
| <i>For Class 52 Rating, Deduct</i>   | -459.68                   |                         |
| <i>For Class 54 Rating, Add</i>  | 632.55                    |                         |
| <i>For Class 55 Rating, Add</i>  | 943.31                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,249.90                  |                         |
| 40 05 19 00-3107 EA 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,756.67                  | 317.22                  |
| <i>For Class 52 Rating, Deduct</i>   | -470.37                   |                         |
| <i>For Class 54 Rating, Add</i>  | 647.17                    |                         |
| <i>For Class 55 Rating, Add</i>  | 965.09                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,278.74                  |                         |
| 40 05 19 00-3108 EA 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                 | 4,858.91                  | 320.59                  |
| <i>For Class 52 Rating, Deduct</i>   | -481.05                   |                         |
| <i>For Class 54 Rating, Add</i>  | 661.81                    |                         |
| <i>For Class 55 Rating, Add</i>  | 986.88                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,307.57                  |                         |
| <b>40 05 19 00-3109 6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3110 EA 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 891.32                    | 242.46                  |
| <i>For Class 52 Rating, Deduct</i>   | -57.64                    |                         |
| <i>For Class 54 Rating, Add</i>  | 83.00                     |                         |
| <i>For Class 55 Rating, Add</i>  | 125.66                    |                         |
| <i>For Class 56 Rating, Add</i>  | 167.79                    |                         |



## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-3111 | EA  |     | 6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,008.89                  | 245.84                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -70.01                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 99.93                     |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 150.86                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 201.15                    |                         |
| 40 05 19 00-3112 | EA  |     | 6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,126.45                  | 249.19                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -82.38                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 116.86                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 176.06                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 234.51                    |                         |
| 40 05 19 00-3113 | EA  |     | 6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,244.01                  | 252.56                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -94.75                    |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 133.79                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 201.26                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 267.87                    |                         |
| 40 05 19 00-3114 | EA  |     | 6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,361.58                  | 255.93                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -107.12                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 150.72                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 226.47                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 301.23                    |                         |
| 40 05 19 00-3115 | EA  |     | 6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,479.15                  | 259.29                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -119.49                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 167.66                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 251.67                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 334.59                    |                         |
| 40 05 19 00-3116 | EA  |     | 6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,596.71                  | 262.66                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -131.86                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 184.59                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 276.87                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 367.95                    |                         |
| 40 05 19 00-3117 | EA  |     | 6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,714.27                  | 266.04                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -144.23                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 201.52                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 302.07                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 401.31                    |                         |
| 40 05 19 00-3118 | EA  |     | 6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,831.83                  | 269.40                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -156.60                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 218.45                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 327.27                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 434.67                    |                         |
| 40 05 19 00-3119 | EA  |     | 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,949.39                  | 272.77                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -168.97                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 235.38                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 352.47                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 468.03                    |                         |
| 40 05 19 00-3120 | EA  |     | 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,066.96                  | 276.13                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -181.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 252.31                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 377.67                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 501.39                    |                         |
| 40 05 19 00-3121 | EA  |     | 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,184.52                  | 279.51                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -193.71                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 269.24                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 402.87                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 534.75                    |                         |
| 40 05 19 00-3122 | EA  |     | 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,302.08                  | 282.86                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -206.08                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 286.17                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 428.07                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 568.11                    |                         |
| 40 05 19 00-3123 | EA  |     | 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,419.64                  | 286.24                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -218.45                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 303.10                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 453.28                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 601.47                    |                         |
| 40 05 19 00-3124 | EA  |     | 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,537.20                  | 289.60                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -230.83                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 320.03                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 478.48                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 634.83                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3125 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,654.77                  | 292.98                  |
| <i>For Class 52 Rating, Deduct</i>  | -243.20                   |                         |
| <i>For Class 54 Rating, Add</i>   | 336.96                    |                         |
| <i>For Class 55 Rating, Add</i>   | 503.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 668.19                    |                         |
| 40 05 19 00-3126 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,772.33                  | 296.33                  |
| <i>For Class 52 Rating, Deduct</i>  | -255.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 353.89                    |                         |
| <i>For Class 55 Rating, Add</i>   | 528.88                    |                         |
| <i>For Class 56 Rating, Add</i>   | 701.55                    |                         |
| 40 05 19 00-3127 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 2,889.89                  | 299.71                  |
| <i>For Class 52 Rating, Deduct</i>  | -267.94                   |                         |
| <i>For Class 54 Rating, Add</i>   | 370.82                    |                         |
| <i>For Class 55 Rating, Add</i>   | 554.08                    |                         |
| <i>For Class 56 Rating, Add</i>   | 734.91                    |                         |
| 40 05 19 00-3128 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,007.45                  | 303.07                  |
| <i>For Class 52 Rating, Deduct</i>  | -280.31                   |                         |
| <i>For Class 54 Rating, Add</i>   | 387.75                    |                         |
| <i>For Class 55 Rating, Add</i>   | 579.28                    |                         |
| <i>For Class 56 Rating, Add</i>   | 768.26                    |                         |
| 40 05 19 00-3129 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,125.02                  | 306.45                  |
| <i>For Class 52 Rating, Deduct</i>  | -292.68                   |                         |
| <i>For Class 54 Rating, Add</i>   | 404.68                    |                         |
| <i>For Class 55 Rating, Add</i>   | 604.48                    |                         |
| <i>For Class 56 Rating, Add</i>   | 801.62                    |                         |
| 40 05 19 00-3130 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,242.58                  | 309.80                  |
| <i>For Class 52 Rating, Deduct</i>  | -305.05                   |                         |
| <i>For Class 54 Rating, Add</i>   | 421.61                    |                         |
| <i>For Class 55 Rating, Add</i>   | 629.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 834.98                    |                         |
| 40 05 19 00-3131 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,360.14                  | 313.18                  |
| <i>For Class 52 Rating, Deduct</i>  | -317.42                   |                         |
| <i>For Class 54 Rating, Add</i>   | 438.54                    |                         |
| <i>For Class 55 Rating, Add</i>   | 654.88                    |                         |
| <i>For Class 56 Rating, Add</i>   | 868.34                    |                         |
| 40 05 19 00-3132 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,477.70                  | 316.55                  |
| <i>For Class 52 Rating, Deduct</i>  | -329.79                   |                         |
| <i>For Class 54 Rating, Add</i>   | 455.47                    |                         |
| <i>For Class 55 Rating, Add</i>   | 680.08                    |                         |
| <i>For Class 56 Rating, Add</i>   | 901.70                    |                         |
| 40 05 19 00-3133 EA 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,595.26                  | 319.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -342.16                   |                         |
| <i>For Class 54 Rating, Add</i>   | 472.40                    |                         |
| <i>For Class 55 Rating, Add</i>   | 705.29                    |                         |
| <i>For Class 56 Rating, Add</i>   | 935.06                    |                         |
| 40 05 19 00-3134 EA 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,712.84                  | 323.28                  |
| <i>For Class 52 Rating, Deduct</i>  | -354.53                   |                         |
| <i>For Class 54 Rating, Add</i>   | 489.33                    |                         |
| <i>For Class 55 Rating, Add</i>   | 730.49                    |                         |
| <i>For Class 56 Rating, Add</i>   | 968.42                    |                         |
| 40 05 19 00-3135 EA 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,830.40                  | 326.65                  |
| <i>For Class 52 Rating, Deduct</i>  | -366.90                   |                         |
| <i>For Class 54 Rating, Add</i>   | 506.26                    |                         |
| <i>For Class 55 Rating, Add</i>   | 755.69                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,001.78                  |                         |
| 40 05 19 00-3136 EA 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,947.96                  | 330.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -379.27                   |                         |
| <i>For Class 54 Rating, Add</i>   | 523.19                    |                         |
| <i>For Class 55 Rating, Add</i>   | 780.89                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,035.14                  |                         |
| 40 05 19 00-3137 EA 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,065.52                  | 333.38                  |
| <i>For Class 52 Rating, Deduct</i>  | -391.64                   |                         |
| <i>For Class 54 Rating, Add</i>   | 540.12                    |                         |
| <i>For Class 55 Rating, Add</i>   | 806.09                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,068.50                  |                         |
| 40 05 19 00-3138 EA 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,183.09                  | 336.75                  |
| <i>For Class 52 Rating, Deduct</i>  | -404.01                   |                         |
| <i>For Class 54 Rating, Add</i>   | 557.05                    |                         |
| <i>For Class 55 Rating, Add</i>   | 831.29                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,101.86                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI     | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|---|---------------------------|-------------------------|
| 40 05 19 00-3139 | EA  | 6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 4,300.65                  | 340.12                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -416.39                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 573.98                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 856.49                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,135.22                  |                         |
| 40 05 19 00-3140 | EA  | 6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 4,418.21                  | 343.48                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -428.76                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 590.91                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 881.70                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,168.58                  |                         |
| 40 05 19 00-3141 | EA  | 6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 4,535.77                  | 346.85                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -441.13                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 607.84                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 906.90                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,201.94                  |                         |
| 40 05 19 00-3142 | EA  | 6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 4,653.33                  | 350.22                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -453.50                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 624.77                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 932.10                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,235.30                  |                         |
| 40 05 19 00-3143 | EA  | 6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 4,770.90                  | 353.59                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -465.87                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 641.70                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 957.30                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,268.66                  |                         |
| 40 05 19 00-3144 | EA  | 6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 4,888.46                  | 356.95                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -478.24                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 658.63                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 982.50                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,302.02                  |                         |
| 40 05 19 00-3145 | EA  | 6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 5,006.02                  | 360.32                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -490.61                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 675.56                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,007.70                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,335.38                  |                         |
| 40 05 19 00-3146 | EA  | 6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 5,123.58                  | 363.69                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -502.98                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 692.49                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,032.90                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,368.74                  |                         |
| 40 05 19 00-3147 | EA  | 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 5,241.14                  | 367.05                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -515.35                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 709.42                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,058.10                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,402.10                  |                         |
| 40 05 19 00-3148 | EA  | 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 5,358.71                  | 370.42                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -527.72                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 726.35                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 1,083.30                  |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,435.46                  |                         |
| 40 05 19 00-3149 |     | <b>8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3150 | EA  | 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 1,208.07                  | 309.80                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -81.25                    |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 116.43                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 175.99                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 234.80                    |                         |
| 40 05 19 00-3151 | EA  | 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 1,358.86                  | 313.18                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -97.28                    |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 138.35                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 208.60                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 277.97                    |                         |
| 40 05 19 00-3152 | EA  | 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 1,509.65                  | 316.55                  |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -113.30                   |                         |
|                  |     | <i>For Class 54 Rating, Add</i>   | 160.26                    |                         |
|                  |     | <i>For Class 55 Rating, Add</i>   | 241.21                    |                         |
|                  |     | <i>For Class 56 Rating, Add</i>   | 321.13                    |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3153 EA 8" Flanged x Plain End (FxpPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,660.43                  | 319.91                  |
| <i>For Class 52 Rating, Deduct</i>  | -129.33                   |                         |
| <i>For Class 54 Rating, Add</i>   | 182.17                    |                         |
| <i>For Class 55 Rating, Add</i>   | 273.82                    |                         |
| <i>For Class 56 Rating, Add</i>   | 364.29                    |                         |
| 40 05 19 00-3154 EA 8" Flanged x Plain End (FxpPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,811.23                  | 323.28                  |
| <i>For Class 52 Rating, Deduct</i>  | -145.36                   |                         |
| <i>For Class 54 Rating, Add</i>   | 204.09                    |                         |
| <i>For Class 55 Rating, Add</i>   | 306.43                    |                         |
| <i>For Class 56 Rating, Add</i>   | 407.45                    |                         |
| 40 05 19 00-3155 EA 8" Flanged x Plain End (FxpPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 1,962.02                  | 326.65                  |
| <i>For Class 52 Rating, Deduct</i>  | -161.38                   |                         |
| <i>For Class 54 Rating, Add</i>   | 226.00                    |                         |
| <i>For Class 55 Rating, Add</i>   | 339.04                    |                         |
| <i>For Class 56 Rating, Add</i>   | 450.61                    |                         |
| 40 05 19 00-3156 EA 8" Flanged x Plain End (FxpPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,112.81                  | 330.02                  |
| <i>For Class 52 Rating, Deduct</i>  | -177.41                   |                         |
| <i>For Class 54 Rating, Add</i>   | 247.92                    |                         |
| <i>For Class 55 Rating, Add</i>   | 371.65                    |                         |
| <i>For Class 56 Rating, Add</i>   | 493.77                    |                         |
| 40 05 19 00-3157 EA 8" Flanged x Plain End (FxpPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,263.59                  | 333.38                  |
| <i>For Class 52 Rating, Deduct</i>  | -193.43                   |                         |
| <i>For Class 54 Rating, Add</i>   | 269.83                    |                         |
| <i>For Class 55 Rating, Add</i>   | 404.26                    |                         |
| <i>For Class 56 Rating, Add</i>   | 536.93                    |                         |
| 40 05 19 00-3158 EA 8" Flanged x Plain End (FxpPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,414.39                  | 336.75                  |
| <i>For Class 52 Rating, Deduct</i>  | -209.46                   |                         |
| <i>For Class 54 Rating, Add</i>   | 291.75                    |                         |
| <i>For Class 55 Rating, Add</i>   | 436.87                    |                         |
| <i>For Class 56 Rating, Add</i>   | 580.10                    |                         |
| 40 05 19 00-3159 EA 8" Flanged x Plain End (FxpPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,565.18                  | 340.12                  |
| <i>For Class 52 Rating, Deduct</i>  | -225.48                   |                         |
| <i>For Class 54 Rating, Add</i>   | 313.66                    |                         |
| <i>For Class 55 Rating, Add</i>   | 469.48                    |                         |
| <i>For Class 56 Rating, Add</i>   | 623.26                    |                         |
| 40 05 19 00-3160 EA 8" Flanged x Plain End (FxpPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,715.97                  | 343.48                  |
| <i>For Class 52 Rating, Deduct</i>  | -241.51                   |                         |
| <i>For Class 54 Rating, Add</i>   | 335.58                    |                         |
| <i>For Class 55 Rating, Add</i>   | 502.10                    |                         |
| <i>For Class 56 Rating, Add</i>   | 666.42                    |                         |
| 40 05 19 00-3161 EA 8" Flanged x Plain End (FxpPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 2,866.75                  | 346.85                  |
| <i>For Class 52 Rating, Deduct</i>  | -257.53                   |                         |
| <i>For Class 54 Rating, Add</i>   | 357.49                    |                         |
| <i>For Class 55 Rating, Add</i>   | 534.70                    |                         |
| <i>For Class 56 Rating, Add</i>   | 709.58                    |                         |
| 40 05 19 00-3162 EA 8" Flanged x Plain End (FxpPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,017.54                  | 350.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -273.56                   |                         |
| <i>For Class 54 Rating, Add</i>   | 379.40                    |                         |
| <i>For Class 55 Rating, Add</i>   | 567.32                    |                         |
| <i>For Class 56 Rating, Add</i>   | 752.74                    |                         |
| 40 05 19 00-3163 EA 8" Flanged x Plain End (FxpPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,168.34                  | 353.59                  |
| <i>For Class 52 Rating, Deduct</i>  | -289.59                   |                         |
| <i>For Class 54 Rating, Add</i>   | 401.32                    |                         |
| <i>For Class 55 Rating, Add</i>   | 599.93                    |                         |
| <i>For Class 56 Rating, Add</i>   | 795.90                    |                         |
| 40 05 19 00-3164 EA 8" Flanged x Plain End (FxpPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,319.12                  | 356.95                  |
| <i>For Class 52 Rating, Deduct</i>  | -305.61                   |                         |
| <i>For Class 54 Rating, Add</i>   | 423.23                    |                         |
| <i>For Class 55 Rating, Add</i>   | 632.54                    |                         |
| <i>For Class 56 Rating, Add</i>   | 839.06                    |                         |
| 40 05 19 00-3165 EA 8" Flanged x Plain End (FxpPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,469.91                  | 360.32                  |
| <i>For Class 52 Rating, Deduct</i>  | -321.64                   |                         |
| <i>For Class 54 Rating, Add</i>   | 445.15                    |                         |
| <i>For Class 55 Rating, Add</i>   | 665.15                    |                         |
| <i>For Class 56 Rating, Add</i>   | 882.22                    |                         |
| 40 05 19 00-3166 EA 8" Flanged x Plain End (FxpPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,620.70                  | 363.69                  |
| <i>For Class 52 Rating, Deduct</i>  | -337.66                   |                         |
| <i>For Class 54 Rating, Add</i>   | 467.06                    |                         |
| <i>For Class 55 Rating, Add</i>   | 697.76                    |                         |
| <i>For Class 56 Rating, Add</i>   | 925.39                    |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-3167 | EA  |     | 8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 3,771.49                  | 367.05                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -353.69                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 488.98                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 730.37                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 968.55                    |                         |
| 40 05 19 00-3168 | EA  |     | 8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,922.28                  | 370.42                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -369.77                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 510.89                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 762.98                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,011.71                  |                         |
| 40 05 19 00-3169 | EA  |     | 8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,073.07                  | 373.79                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -385.74                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 532.80                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 795.59                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,054.87                  |                         |
| 40 05 19 00-3170 | EA  |     | 8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,223.86                  | 377.16                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -401.77                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 554.72                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 828.20                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,098.03                  |                         |
| 40 05 19 00-3171 | EA  |     | 8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,374.65                  | 380.52                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -417.79                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 576.63                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 860.81                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,141.20                  |                         |
| 40 05 19 00-3172 | EA  |     | 8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,525.44                  | 383.89                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -433.82                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 598.55                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 893.42                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,184.35                  |                         |
| 40 05 19 00-3173 | EA  |     | 8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,676.23                  | 387.27                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -449.84                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 620.46                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 926.03                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,227.52                  |                         |
| 40 05 19 00-3174 | EA  |     | 8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,827.02                  | 390.63                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -465.87                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 642.38                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 958.65                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,270.68                  |                         |
| 40 05 19 00-3175 | EA  |     | 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,977.81                  | 394.00                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -481.89                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 664.29                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 991.26                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,313.84                  |                         |
| 40 05 19 00-3176 | EA  |     | 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,128.59                  | 397.36                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -497.92                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 686.20                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,023.87                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,357.00                  |                         |
| 40 05 19 00-3177 | EA  |     | 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,279.39                  | 400.74                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -513.94                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 708.12                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,056.48                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,400.16                  |                         |
| 40 05 19 00-3178 | EA  |     | 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,430.18                  | 404.09                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -529.97                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 730.03                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,089.09                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,443.33                  |                         |
| 40 05 19 00-3179 | EA  |     | 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,580.97                  | 407.47                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -546.00                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 751.95                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,121.70                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,486.49                  |                         |
| 40 05 19 00-3180 | EA  |     | 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,731.75                  | 410.83                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -562.02                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 773.86                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,154.31                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,529.65                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3181 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 5,882.54                  | 414.21                  |
| <i>For Class 52 Rating, Deduct</i>  | -578.05                   |                         |
| <i>For Class 54 Rating, Add</i>   | 795.78                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,186.92                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,572.81                  |                         |
| 40 05 19 00-3182 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,033.34                  | 417.56                  |
| <i>For Class 52 Rating, Deduct</i>  | -594.07                   |                         |
| <i>For Class 54 Rating, Add</i>   | 817.69                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,219.53                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,615.97                  |                         |
| 40 05 19 00-3183 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,184.13                  | 420.94                  |
| <i>For Class 52 Rating, Deduct</i>  | -610.10                   |                         |
| <i>For Class 54 Rating, Add</i>   | 839.61                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,252.14                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,659.13                  |                         |
| 40 05 19 00-3184 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,334.91                  | 424.30                  |
| <i>For Class 52 Rating, Deduct</i>  | -626.12                   |                         |
| <i>For Class 54 Rating, Add</i>   | 861.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,284.75                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,702.29                  |                         |
| 40 05 19 00-3185 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,485.70                  | 427.67                  |
| <i>For Class 52 Rating, Deduct</i>  | -642.15                   |                         |
| <i>For Class 54 Rating, Add</i>   | 883.43                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,317.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,745.45                  |                         |
| 40 05 19 00-3186 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,636.50                  | 431.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -658.18                   |                         |
| <i>For Class 54 Rating, Add</i>   | 905.35                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,349.97                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,788.62                  |                         |
| 40 05 19 00-3187 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,787.29                  | 434.41                  |
| <i>For Class 52 Rating, Deduct</i>  | -674.20                   |                         |
| <i>For Class 54 Rating, Add</i>   | 927.26                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,382.59                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,831.78                  |                         |
| 40 05 19 00-3188 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 6,938.07                  | 437.78                  |
| <i>For Class 52 Rating, Deduct</i>  | -690.23                   |                         |
| <i>For Class 54 Rating, Add</i>   | 949.18                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,415.19                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,874.94                  |                         |
| <b>40 05 19 00-3189 10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3190 EA 10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 1,519.70                  | 377.16                  |
| <i>For Class 52 Rating, Deduct</i>  | -104.31                   |                         |
| <i>For Class 54 Rating, Add</i>   | 149.09                    |                         |
| <i>For Class 55 Rating, Add</i>   | 225.17                    |                         |
| <i>For Class 56 Rating, Add</i>   | 300.31                    |                         |
| 40 05 19 00-3191 EA 10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 1,713.93                  | 380.52                  |
| <i>For Class 52 Rating, Deduct</i>  | -125.11                   |                         |
| <i>For Class 54 Rating, Add</i>   | 177.53                    |                         |
| <i>For Class 55 Rating, Add</i>   | 267.47                    |                         |
| <i>For Class 56 Rating, Add</i>   | 356.28                    |                         |
| 40 05 19 00-3192 EA 10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 1,908.18                  | 383.89                  |
| <i>For Class 52 Rating, Deduct</i>  | -145.92                   |                         |
| <i>For Class 54 Rating, Add</i>   | 205.96                    |                         |
| <i>For Class 55 Rating, Add</i>   | 309.77                    |                         |
| <i>For Class 56 Rating, Add</i>   | 412.26                    |                         |
| 40 05 19 00-3193 EA 10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 2,102.42                  | 387.27                  |
| <i>For Class 52 Rating, Deduct</i>  | -166.72                   |                         |
| <i>For Class 54 Rating, Add</i>   | 234.39                    |                         |
| <i>For Class 55 Rating, Add</i>   | 352.07                    |                         |
| <i>For Class 56 Rating, Add</i>   | 468.24                    |                         |
| 40 05 19 00-3194 EA 10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                  | 2,296.66                  | 390.63                  |
| <i>For Class 52 Rating, Deduct</i>  | -187.53                   |                         |
| <i>For Class 54 Rating, Add</i>   | 262.82                    |                         |
| <i>For Class 55 Rating, Add</i>   | 394.38                    |                         |
| <i>For Class 56 Rating, Add</i>   | 524.22                    |                         |

**40 Process Interconnections**

**40 05 Common Work Results For Process Interconnections**

**40 05 19 Ductile Iron Process Pipe**



| MINOR            |     |   |           | TOTAL DIRECT | DEMOLITION |
|------------------|-----|---|-----------|--------------|------------|
| CSI              | UOM | DESCRIPTION   | UNIT COST | UNIT COST    |            |
| 40 05 19 00-3195 | EA  | 10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 2,490.90  | 394.00       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -208.33   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 291.25    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 436.68    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 580.20    |              |            |
| 40 05 19 00-3196 | EA  | 10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 2,685.13  | 397.36       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -229.14   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 319.69    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 478.97    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 636.18    |              |            |
| 40 05 19 00-3197 | EA  | 10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 2,879.38  | 400.74       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -249.94   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 348.12    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 521.27    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 692.16    |              |            |
| 40 05 19 00-3198 | EA  | 10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 3,073.62  | 404.09       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -270.75   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 376.55    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 563.58    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 748.14    |              |            |
| 40 05 19 00-3199 | EA  | 10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 3,267.86  | 407.47       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -291.55   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 404.98    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 605.88    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 804.12    |              |            |
| 40 05 19 00-3200 | EA  | 10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 3,462.10  | 410.83       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -312.36   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 433.41    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 648.18    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 860.10    |              |            |
| 40 05 19 00-3201 | EA  | 10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 3,656.34  | 414.21       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -333.16   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 461.85    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 690.48    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 916.08    |              |            |
| 40 05 19 00-3202 | EA  | 10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 3,850.58  | 417.56       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -353.97   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 490.28    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 732.78    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 972.06    |              |            |
| 40 05 19 00-3203 | EA  | 10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 4,044.82  | 420.94       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -374.77   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 518.71    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 775.08    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,028.04  |              |            |
| 40 05 19 00-3204 | EA  | 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 4,239.06  | 424.30       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -395.58   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 547.14    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 817.38    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,084.02  |              |            |
| 40 05 19 00-3205 | EA  | 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 4,433.30  | 427.67       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -416.39   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 575.57    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 859.68    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,140.00  |              |            |
| 40 05 19 00-3206 | EA  | 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 4,627.55  | 431.03       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -437.19   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 604.01    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 901.98    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,195.98  |              |            |
| 40 05 19 00-3207 | EA  | 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 4,821.78  | 434.41       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -457.99   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 632.44    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 944.28    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,251.95  |              |            |
| 40 05 19 00-3208 | EA  | 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 5,016.02  | 437.78       |            |
|                  |     | <i>For Class 52 Rating, Deduct</i>  | -478.80   |              |            |
|                  |     | <i>For Class 54 Rating, Add</i>   | 660.87    |              |            |
|                  |     | <i>For Class 55 Rating, Add</i>   | 986.58    |              |            |
|                  |     | <i>For Class 56 Rating, Add</i>   | 1,307.93  |              |            |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3209 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,210.26                  | 441.14                  |
| <i>For Class 52 Rating, Deduct</i>   | -499.61                   |                         |
| <i>For Class 54 Rating, Add</i>  | 689.30                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,028.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,363.91                  |                         |
| 40 05 19 00-3210 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,404.50                  | 444.50                  |
| <i>For Class 52 Rating, Deduct</i>   | -520.41                   |                         |
| <i>For Class 54 Rating, Add</i>  | 717.73                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,071.18                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,419.89                  |                         |
| 40 05 19 00-3211 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,598.75                  | 447.88                  |
| <i>For Class 52 Rating, Deduct</i>   | -541.22                   |                         |
| <i>For Class 54 Rating, Add</i>  | 746.17                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,113.48                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,475.87                  |                         |
| 40 05 19 00-3212 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,792.98                  | 451.23                  |
| <i>For Class 52 Rating, Deduct</i>   | -562.02                   |                         |
| <i>For Class 54 Rating, Add</i>  | 774.60                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,155.78                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,531.85                  |                         |
| 40 05 19 00-3213 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,987.22                  | 454.61                  |
| <i>For Class 52 Rating, Deduct</i>   | -582.83                   |                         |
| <i>For Class 54 Rating, Add</i>  | 803.03                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,198.08                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,587.83                  |                         |
| 40 05 19 00-3214 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,181.46                  | 457.98                  |
| <i>For Class 52 Rating, Deduct</i>   | -603.63                   |                         |
| <i>For Class 54 Rating, Add</i>  | 831.46                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,240.38                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,643.81                  |                         |
| 40 05 19 00-3215 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,375.70                  | 461.35                  |
| <i>For Class 52 Rating, Deduct</i>   | -624.44                   |                         |
| <i>For Class 54 Rating, Add</i>  | 859.89                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,282.68                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,699.79                  |                         |
| 40 05 19 00-3216 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,569.95                  | 464.71                  |
| <i>For Class 52 Rating, Deduct</i>   | -645.24                   |                         |
| <i>For Class 54 Rating, Add</i>  | 888.33                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,324.98                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,755.77                  |                         |
| 40 05 19 00-3217 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,764.18                  | 468.08                  |
| <i>For Class 52 Rating, Deduct</i>   | -666.05                   |                         |
| <i>For Class 54 Rating, Add</i>  | 916.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,367.28                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,811.75                  |                         |
| 40 05 19 00-3218 EA 10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,958.42                  | 471.45                  |
| <i>For Class 52 Rating, Deduct</i>   | -686.85                   |                         |
| <i>For Class 54 Rating, Add</i>  | 945.19                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,409.58                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,867.73                  |                         |
| 40 05 19 00-3219 EA 10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,152.66                  | 474.82                  |
| <i>For Class 52 Rating, Deduct</i>   | -707.66                   |                         |
| <i>For Class 54 Rating, Add</i>  | 973.62                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,451.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,923.71                  |                         |
| 40 05 19 00-3220 EA 10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,346.91                  | 478.18                  |
| <i>For Class 52 Rating, Deduct</i>   | -728.46                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,002.05                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,494.18                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,979.69                  |                         |
| 40 05 19 00-3221 EA 10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,541.15                  | 481.55                  |
| <i>For Class 52 Rating, Deduct</i>   | -749.27                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,030.48                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,536.48                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,035.67                  |                         |
| 40 05 19 00-3222 EA 10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,735.38                  | 484.92                  |
| <i>For Class 52 Rating, Deduct</i>   | -770.07                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,058.92                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,578.78                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,091.64                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-3223 | EA  |     | 10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 7,929.62               | 488.28               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -790.88                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,087.35               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,621.08               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,147.62               |                      |
| 40 05 19 00-3224 | EA  |     | 10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 8,123.86               | 491.65               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -811.68                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,115.78               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,663.38               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,203.60               |                      |
| 40 05 19 00-3225 | EA  |     | 10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 8,318.11               | 495.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -832.49                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,144.21               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,705.68               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,259.58               |                      |
| 40 05 19 00-3226 | EA  |     | 10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 8,512.35               | 498.39               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -853.29                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,172.64               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,747.98               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,315.56               |                      |
| 40 05 19 00-3227 | EA  |     | 10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 8,706.59               | 501.75               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -874.10                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,201.08               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,790.28               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,371.54               |                      |
| 40 05 19 00-3228 | EA  |     | 10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 8,900.82               | 505.12               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -894.90                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,229.51               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,832.58               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,427.52               |                      |
| 40 05 19 00-3229 |     |     | <b>12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                        |                      |
| 40 05 19 00-3230 | EA  |     | 12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 1,966.71               | 471.45               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -137.76                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 196.43                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 296.43                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 395.17                 |                      |
| 40 05 19 00-3231 | EA  |     | 12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 2,206.96               | 474.82               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -163.63                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 231.77                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 348.99                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 464.73                 |                      |
| 40 05 19 00-3232 | EA  |     | 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 2,447.21               | 478.18               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -189.50                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 267.10                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 401.55                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 534.28                 |                      |
| 40 05 19 00-3233 | EA  |     | 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 2,687.45               | 481.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -215.36                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 302.43                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 454.11                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 603.83                 |                      |
| 40 05 19 00-3234 | EA  |     | 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 2,927.70               | 484.92               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -241.23                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 337.76                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 506.67                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 673.38                 |                      |
| 40 05 19 00-3235 | EA  |     | 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 3,167.94               | 488.28               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -267.09                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 373.10                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 559.23                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 742.93                 |                      |
| 40 05 19 00-3236 | EA  |     | 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 3,408.19               | 491.65               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -292.96                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 408.43                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 611.79                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 812.48                 |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3237 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 3,648.44                  | 495.02                  |
| <i>For Class 52 Rating, Deduct</i>   | -318.83                   |                         |
| <i>For Class 54 Rating, Add</i>  | 443.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 664.35                    |                         |
| <i>For Class 56 Rating, Add</i>  | 882.03                    |                         |
| 40 05 19 00-3238 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 3,888.69                  | 498.39                  |
| <i>For Class 52 Rating, Deduct</i>   | -344.69                   |                         |
| <i>For Class 54 Rating, Add</i>  | 479.10                    |                         |
| <i>For Class 55 Rating, Add</i>  | 716.91                    |                         |
| <i>For Class 56 Rating, Add</i>  | 951.58                    |                         |
| 40 05 19 00-3239 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 4,128.93                  | 501.75                  |
| <i>For Class 52 Rating, Deduct</i>   | -370.56                   |                         |
| <i>For Class 54 Rating, Add</i>  | 514.43                    |                         |
| <i>For Class 55 Rating, Add</i>  | 769.47                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,021.13                  |                         |
| 40 05 19 00-3240 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 4,369.18                  | 505.12                  |
| <i>For Class 52 Rating, Deduct</i>   | -396.42                   |                         |
| <i>For Class 54 Rating, Add</i>  | 549.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 822.03                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,090.69                  |                         |
| 40 05 19 00-3241 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 4,609.43                  | 508.50                  |
| <i>For Class 52 Rating, Deduct</i>   | -422.29                   |                         |
| <i>For Class 54 Rating, Add</i>  | 585.09                    |                         |
| <i>For Class 55 Rating, Add</i>  | 874.59                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,160.24                  |                         |
| 40 05 19 00-3242 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 4,849.69                  | 511.85                  |
| <i>For Class 52 Rating, Deduct</i>   | -448.16                   |                         |
| <i>For Class 54 Rating, Add</i>  | 620.43                    |                         |
| <i>For Class 55 Rating, Add</i>  | 927.15                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,229.79                  |                         |
| 40 05 19 00-3243 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,089.93                  | 515.23                  |
| <i>For Class 52 Rating, Deduct</i>   | -474.02                   |                         |
| <i>For Class 54 Rating, Add</i>  | 655.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 979.71                    |                         |
| <i>For Class 56 Rating, Add</i>  | 1,299.34                  |                         |
| 40 05 19 00-3244 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,330.18                  | 518.59                  |
| <i>For Class 52 Rating, Deduct</i>   | -499.89                   |                         |
| <i>For Class 54 Rating, Add</i>  | 691.09                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,032.27                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,368.89                  |                         |
| 40 05 19 00-3245 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,570.42                  | 521.97                  |
| <i>For Class 52 Rating, Deduct</i>   | -525.75                   |                         |
| <i>For Class 54 Rating, Add</i>  | 726.43                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,084.82                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,438.44                  |                         |
| 40 05 19 00-3246 EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,810.68                  | 525.32                  |
| <i>For Class 52 Rating, Deduct</i>   | -551.62                   |                         |
| <i>For Class 54 Rating, Add</i>  | 761.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,137.39                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,508.00                  |                         |
| 40 05 19 00-3247 EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 6,050.92                  | 528.70                  |
| <i>For Class 52 Rating, Deduct</i>   | -577.48                   |                         |
| <i>For Class 54 Rating, Add</i>  | 797.09                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,189.94                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,577.55                  |                         |
| 40 05 19 00-3248 EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,291.16                  | 532.06                  |
| <i>For Class 52 Rating, Deduct</i>   | -603.35                   |                         |
| <i>For Class 54 Rating, Add</i>  | 832.42                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,242.50                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,647.10                  |                         |
| 40 05 19 00-3249 EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,531.41                  | 535.43                  |
| <i>For Class 52 Rating, Deduct</i>   | -629.22                   |                         |
| <i>For Class 54 Rating, Add</i>  | 867.76                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,295.06                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,716.65                  |                         |
| 40 05 19 00-3250 EA 12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,771.65                  | 538.79                  |
| <i>For Class 52 Rating, Deduct</i>   | -655.08                   |                         |
| <i>For Class 54 Rating, Add</i>  | 903.09                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,347.62                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,786.20                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-3251 | EA  |     | 12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,011.91                  | 542.17                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -680.95                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 938.42                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,400.18                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,855.75                  |                         |
| 40 05 19 00-3252 | EA  |     | 12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,252.15                  | 545.53                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -706.81                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 973.76                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,452.74                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,925.30                  |                         |
| 40 05 19 00-3253 | EA  |     | 12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,492.40                  | 548.90                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -732.68                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,009.09                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,505.30                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,994.86                  |                         |
| 40 05 19 00-3254 | EA  |     | 12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,732.64                  | 552.26                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -758.55                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,044.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,557.86                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,064.41                  |                         |
| 40 05 19 00-3255 | EA  |     | 12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 7,972.89                  | 555.64                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -784.41                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,079.76                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,610.42                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,133.96                  |                         |
| 40 05 19 00-3256 | EA  |     | 12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,213.14                  | 559.01                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -810.28                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,115.09                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,662.98                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,203.51                  |                         |
| 40 05 19 00-3257 | EA  |     | 12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,453.39                  | 562.37                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -836.14                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,150.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,715.54                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,273.06                  |                         |
| 40 05 19 00-3258 | EA  |     | 12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,693.63                  | 565.73                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -862.01                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,185.75                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,768.10                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,342.61                  |                         |
| 40 05 19 00-3259 | EA  |     | 12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 8,933.88                  | 569.11                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -887.88                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,221.09                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,820.66                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,412.16                  |                         |
| 40 05 19 00-3260 | EA  |     | 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 9,174.13                  | 572.46                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -913.74                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,256.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,873.22                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,481.71                  |                         |
| 40 05 19 00-3261 | EA  |     | 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 9,414.37                  | 575.84                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -939.61                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,291.75                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,925.78                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,551.26                  |                         |
| 40 05 19 00-3262 | EA  |     | 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 9,654.62                  | 579.21                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -965.47                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,327.09                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,978.34                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,620.82                  |                         |
| 40 05 19 00-3263 | EA  |     | 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 9,894.86                  | 582.58                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -991.34                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,362.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,030.90                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,690.37                  |                         |
| 40 05 19 00-3264 | EA  |     | 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 10,135.11                 | 585.94                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,017.21                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,397.75                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,083.46                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,759.92                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3265 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                  | 10,375.36                 | 589.31                  |
| For Class 52 Rating, Deduct   | -1,043.07                 |                         |
| For Class 54 Rating, Add  | 1,433.08                  |                         |
| For Class 55 Rating, Add  | 2,136.02                  |                         |
| For Class 56 Rating, Add  | 2,829.47                  |                         |
| 40 05 19 00-3266 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                  | 10,615.61                 | 592.68                  |
| For Class 52 Rating, Deduct   | -1,068.94                 |                         |
| For Class 54 Rating, Add  | 1,468.42                  |                         |
| For Class 55 Rating, Add  | 2,188.58                  |                         |
| For Class 56 Rating, Add  | 2,899.02                  |                         |
| 40 05 19 00-3267 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                  | 10,855.85                 | 596.04                  |
| For Class 52 Rating, Deduct   | -1,094.80                 |                         |
| For Class 54 Rating, Add  | 1,503.75                  |                         |
| For Class 55 Rating, Add  | 2,241.14                  |                         |
| For Class 56 Rating, Add  | 2,968.57                  |                         |
| 40 05 19 00-3268 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                  | 11,096.10                 | 599.41                  |
| For Class 52 Rating, Deduct   | -1,120.67                 |                         |
| For Class 54 Rating, Add  | 1,539.08                  |                         |
| For Class 55 Rating, Add  | 2,293.70                  |                         |
| For Class 56 Rating, Add  | 3,038.13                  |                         |
| <br><b>40 05 19 00-3269 14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3270 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 2,623.32                  | 565.73                  |
| For Class 52 Rating, Deduct   | -194.28                   |                         |
| For Class 54 Rating, Add  | 275.21                    |                         |
| For Class 55 Rating, Add  | 414.42                    |                         |
| For Class 56 Rating, Add  | 551.87                    |                         |
| 40 05 19 00-3271 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 2,914.68                  | 569.11                  |
| For Class 52 Rating, Deduct   | -225.76                   |                         |
| For Class 54 Rating, Add  | 318.21                    |                         |
| For Class 55 Rating, Add  | 478.38                    |                         |
| For Class 56 Rating, Add  | 636.50                    |                         |
| 40 05 19 00-3272 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 3,206.06                  | 572.46                  |
| For Class 52 Rating, Deduct   | -257.25                   |                         |
| For Class 54 Rating, Add  | 361.21                    |                         |
| For Class 55 Rating, Add  | 542.34                    |                         |
| For Class 56 Rating, Add  | 721.13                    |                         |
| 40 05 19 00-3273 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 3,497.42                  | 575.84                  |
| For Class 52 Rating, Deduct   | -288.74                   |                         |
| For Class 54 Rating, Add  | 404.21                    |                         |
| For Class 55 Rating, Add  | 606.30                    |                         |
| For Class 56 Rating, Add  | 805.76                    |                         |
| 40 05 19 00-3274 EA 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 3,788.78                  | 579.21                  |
| For Class 52 Rating, Deduct   | -320.23                   |                         |
| For Class 54 Rating, Add  | 447.21                    |                         |
| For Class 55 Rating, Add  | 670.26                    |                         |
| For Class 56 Rating, Add  | 890.39                    |                         |
| 40 05 19 00-3275 EA 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 4,080.15                  | 582.58                  |
| For Class 52 Rating, Deduct   | -351.72                   |                         |
| For Class 54 Rating, Add  | 490.21                    |                         |
| For Class 55 Rating, Add  | 734.22                    |                         |
| For Class 56 Rating, Add  | 975.03                    |                         |
| 40 05 19 00-3276 EA 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 4,371.51                  | 585.94                  |
| For Class 52 Rating, Deduct   | -383.21                   |                         |
| For Class 54 Rating, Add  | 533.21                    |                         |
| For Class 55 Rating, Add  | 798.18                    |                         |
| For Class 56 Rating, Add  | 1,059.66                  |                         |
| 40 05 19 00-3277 EA 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 4,662.88                  | 589.31                  |
| For Class 52 Rating, Deduct   | -414.70                   |                         |
| For Class 54 Rating, Add  | 576.21                    |                         |
| For Class 55 Rating, Add  | 862.14                    |                         |
| For Class 56 Rating, Add  | 1,144.29                  |                         |
| 40 05 19 00-3278 EA 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....                   | 4,954.24                  | 592.68                  |
| For Class 52 Rating, Deduct   | -446.19                   |                         |
| For Class 54 Rating, Add  | 619.21                    |                         |
| For Class 55 Rating, Add  | 926.09                    |                         |
| For Class 56 Rating, Add  | 1,228.92                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-3279 | EA  |     | 14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,245.61                  | 596.04                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -477.68                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 662.21                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 990.05                    |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,313.55                  |                         |
| 40 05 19 00-3280 | EA  |     | 14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,536.97                  | 599.41                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -509.16                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 705.21                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,054.01                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,398.18                  |                         |
| 40 05 19 00-3281 | EA  |     | 14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 5,828.33                  | 602.78                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -540.65                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 748.21                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,117.97                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,482.81                  |                         |
| 40 05 19 00-3282 | EA  |     | 14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 6,119.71                  | 606.15                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -572.14                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 791.22                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,181.93                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,567.45                  |                         |
| 40 05 19 00-3283 | EA  |     | 14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 6,411.07                  | 609.51                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -603.63                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 834.22                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,245.89                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,652.08                  |                         |
| 40 05 19 00-3284 | EA  |     | 14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 6,702.43                  | 612.88                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -635.12                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 877.22                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,309.85                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,736.71                  |                         |
| 40 05 19 00-3285 | EA  |     | 14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 6,993.80                  | 616.25                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -666.61                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 920.22                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,373.81                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,821.34                  |                         |
| 40 05 19 00-3286 | EA  |     | 14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 7,285.17                  | 619.61                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -698.10                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 963.22                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,437.77                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,905.97                  |                         |
| 40 05 19 00-3287 | EA  |     | 14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 7,576.53                  | 622.98                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -729.59                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,006.22                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,501.73                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,990.60                  |                         |
| 40 05 19 00-3288 | EA  |     | 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,867.90                  | 626.35                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -761.08                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,049.22                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,565.69                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,075.23                  |                         |
| 40 05 19 00-3289 | EA  |     | 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,159.26                  | 629.73                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -792.57                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,092.22                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,629.65                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,159.86                  |                         |
| 40 05 19 00-3290 | EA  |     | 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,450.62                  | 633.08                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -824.05                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,135.22                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,693.60                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,244.49                  |                         |
| 40 05 19 00-3291 | EA  |     | 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,741.99                  | 636.45                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -855.54                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,178.22                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,757.56                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,329.13                  |                         |
| 40 05 19 00-3292 | EA  |     | 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,033.36                  | 639.82                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -887.03                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,221.22                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,821.52                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,413.76                  |                         |



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|--|
| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3293 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,324.72                  | 643.20                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-918.52</i>            |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,264.22</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>1,885.48</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>2,498.39</i>           |                         |
| 40 05 19 00-3294 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,616.08                  | 646.55                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-950.01</i>            |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,307.22</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>1,949.44</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>2,583.02</i>           |                         |
| 40 05 19 00-3295 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,907.46                  | 649.93                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-981.50</i>            |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,350.22</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,013.40</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>2,667.65</i>           |                         |
| 40 05 19 00-3296 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,198.82                 | 653.29                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,012.99</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,393.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,077.36</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>2,752.28</i>           |                         |
| 40 05 19 00-3297 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,490.18                 | 656.66                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,044.48</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,436.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,141.32</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>2,836.91</i>           |                         |
| 40 05 19 00-3298 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,781.55                 | 660.02                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,075.97</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,479.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,205.28</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>2,921.55</i>           |                         |
| 40 05 19 00-3299 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,072.91                 | 663.40                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,107.45</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,522.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,269.24</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,006.18</i>           |                         |
| 40 05 19 00-3300 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,364.28                 | 666.76                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,138.94</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,565.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,333.19</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,090.81</i>           |                         |
| 40 05 19 00-3301 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,655.65                 | 670.13                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,170.43</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,608.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,397.16</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,175.44</i>           |                         |
| 40 05 19 00-3302 EA 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,947.01                 | 673.49                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,201.92</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,651.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,461.11</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,260.07</i>           |                         |
| 40 05 19 00-3303 EA 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,238.37                 | 676.87                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,233.41</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,694.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,525.07</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,344.70</i>           |                         |
| 40 05 19 00-3304 EA 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,529.73                 | 680.22                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,264.90</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,737.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,589.03</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,429.33</i>           |                         |
| 40 05 19 00-3305 EA 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,821.11                 | 683.60                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,296.39</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,780.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,652.99</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,513.97</i>           |                         |
| 40 05 19 00-3306 EA 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 13,112.47                 | 686.96                  |
| <i>For Class 52 Rating, Deduct</i>   | <i>-1,327.88</i>          |                         |
| <i>For Class 54 Rating, Add</i>  | <i>1,823.23</i>           |                         |
| <i>For Class 55 Rating, Add</i>  | <i>2,716.95</i>           |                         |
| <i>For Class 56 Rating, Add</i>  | <i>3,598.60</i>           |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR                   | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|-------------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-3307        | EA  |     | 14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 13,403.83                 | 690.34                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,359.37                 |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 1,866.23                  |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 2,780.91                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 3,683.23                  |                         |
| <b>40 05 19 00-3308</b> |     |     | <b>16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3309        | EA  |     | 16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 3,062.70                  | 646.55                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -229.14                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 324.22                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 488.04                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 649.77                    |                         |
| 40 05 19 00-3310        | EA  |     | 16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 3,400.08                  | 649.93                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -265.69                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 374.12                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 562.25                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 747.98                    |                         |
| 40 05 19 00-3311        | EA  |     | 16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 3,737.45                  | 653.29                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -302.24                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 424.02                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 636.47                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 846.18                    |                         |
| 40 05 19 00-3312        | EA  |     | 16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 4,074.82                  | 656.66                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -338.79                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 473.92                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 710.69                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 944.38                    |                         |
| 40 05 19 00-3313        | EA  |     | 16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 4,412.19                  | 660.02                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -375.34                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 523.82                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 784.91                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,042.59                  |                         |
| 40 05 19 00-3314        | EA  |     | 16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 4,749.56                  | 663.40                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -411.89                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 573.72                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 859.13                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,140.79                  |                         |
| 40 05 19 00-3315        | EA  |     | 16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 5,086.94                  | 666.76                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -448.44                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 623.63                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 933.35                    |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,238.99                  |                         |
| 40 05 19 00-3316        | EA  |     | 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 5,424.31                  | 670.13                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -484.99                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 673.53                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 1,007.57                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,337.20                  |                         |
| 40 05 19 00-3317        | EA  |     | 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 5,761.68                  | 673.49                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -521.54                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 723.43                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 1,081.79                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,435.40                  |                         |
| 40 05 19 00-3318        | EA  |     | 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 6,099.05                  | 676.87                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -558.09                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 773.33                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 1,156.00                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,533.60                  |                         |
| 40 05 19 00-3319        | EA  |     | 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 6,436.42                  | 680.22                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -594.63                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 823.23                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 1,230.22                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,631.81                  |                         |
| 40 05 19 00-3320        | EA  |     | 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 6,773.80                  | 683.60                  |
|                         |     |     | <i>For Class 52 Rating, Deduct</i>   | -631.18                   |                         |
|                         |     |     | <i>For Class 54 Rating, Add</i>  | 873.14                    |                         |
|                         |     |     | <i>For Class 55 Rating, Add</i>  | 1,304.44                  |                         |
|                         |     |     | <i>For Class 56 Rating, Add</i>  | 1,730.01                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3321 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 7,111.17                  | 686.96                  |
| <i>For Class 52 Rating, Deduct</i>   | -667.73                   |                         |
| <i>For Class 54 Rating, Add</i>  | 923.04                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,378.66                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,828.21                  |                         |
| 40 05 19 00-3322 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 7,448.54                  | 690.34                  |
| <i>For Class 52 Rating, Deduct</i>   | -704.28                   |                         |
| <i>For Class 54 Rating, Add</i>  | 972.94                    |                         |
| <i>For Class 55 Rating, Add</i>  | 1,452.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 1,926.42                  |                         |
| 40 05 19 00-3323 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 7,785.91                  | 693.69                  |
| <i>For Class 52 Rating, Deduct</i>   | -740.83                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,022.84                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,527.10                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,024.62                  |                         |
| 40 05 19 00-3324 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 8,123.29                  | 697.07                  |
| <i>For Class 52 Rating, Deduct</i>   | -777.38                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,072.74                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,601.32                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,122.82                  |                         |
| 40 05 19 00-3325 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 8,460.66                  | 700.44                  |
| <i>For Class 52 Rating, Deduct</i>   | -813.93                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,122.64                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,675.53                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,221.03                  |                         |
| 40 05 19 00-3326 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 8,798.03                  | 703.80                  |
| <i>For Class 52 Rating, Deduct</i>   | -850.48                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,172.55                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,749.75                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,319.23                  |                         |
| 40 05 19 00-3327 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,135.40                  | 707.17                  |
| <i>For Class 52 Rating, Deduct</i>   | -887.03                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,222.45                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,823.97                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,417.43                  |                         |
| 40 05 19 00-3328 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,472.77                  | 710.54                  |
| <i>For Class 52 Rating, Deduct</i>   | -923.58                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,272.35                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,898.19                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,515.64                  |                         |
| 40 05 19 00-3329 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,810.15                  | 713.91                  |
| <i>For Class 52 Rating, Deduct</i>   | -960.13                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,322.25                  |                         |
| <i>For Class 55 Rating, Add</i>  | 1,972.41                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,613.84                  |                         |
| 40 05 19 00-3330 EA 16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,147.52                 | 717.27                  |
| <i>For Class 52 Rating, Deduct</i>   | -996.68                   |                         |
| <i>For Class 54 Rating, Add</i>  | 1,372.15                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,046.63                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,712.04                  |                         |
| 40 05 19 00-3331 EA 16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,484.89                 | 720.64                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,033.23                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,422.05                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,120.85                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,810.25                  |                         |
| 40 05 19 00-3332 EA 16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,822.26                 | 724.01                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,069.78                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,471.96                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,195.06                  |                         |
| <i>For Class 56 Rating, Add</i>  | 2,908.45                  |                         |
| 40 05 19 00-3333 EA 16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,159.63                 | 727.38                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,106.33                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,521.86                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,269.28                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,006.65                  |                         |
| 40 05 19 00-3334 EA 16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,497.00                 | 730.74                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,142.88                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,571.76                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,343.50                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,104.85                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-3335 | EA  |     | 16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 11,834.37              | 734.11               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,179.43              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,621.66               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,417.72               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,203.06               |                      |
| 40 05 19 00-3336 | EA  |     | 16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 12,171.74              | 737.48               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,215.98              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,671.56               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,491.94               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,301.26               |                      |
| 40 05 19 00-3337 | EA  |     | 16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 12,509.11              | 740.84               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,252.53              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,721.46               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,566.16               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,399.46               |                      |
| 40 05 19 00-3338 | EA  |     | 16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 12,846.49              | 744.21               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,289.08              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,771.36               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,640.37               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,497.67               |                      |
| 40 05 19 00-3339 | EA  |     | 16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 13,183.86              | 747.58               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,325.63              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,821.27               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,714.59               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,595.87               |                      |
| 40 05 19 00-3340 | EA  |     | 16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 13,521.23              | 750.96               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,362.18              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,871.17               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,788.81               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,694.07               |                      |
| 40 05 19 00-3341 | EA  |     | 16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 13,858.60              | 754.31               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,398.73              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,921.07               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,863.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,792.28               |                      |
| 40 05 19 00-3342 | EA  |     | 16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 14,195.97              | 757.68               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,435.28              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,970.97               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,937.25               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,890.48               |                      |
| 40 05 19 00-3343 | EA  |     | 16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 14,533.35              | 761.05               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,471.83              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,020.87               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,011.47               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,988.68               |                      |
| 40 05 19 00-3344 | EA  |     | 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 14,870.72              | 764.41               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,508.38              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,070.78               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,085.69               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,086.89               |                      |
| 40 05 19 00-3345 | EA  |     | 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 15,208.09              | 767.78               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,544.93              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,120.68               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,159.91               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,185.09               |                      |
| 40 05 19 00-3346 | EA  |     | 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 15,545.46              | 771.16               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,581.48              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,170.58               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,234.12               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,283.29               |                      |
| 40 05 19 00-3347 |     |     | <b>18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                        |                      |
| 40 05 19 00-3348 | EA  |     | 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 3,545.03               | 728.73               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -268.50                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 379.38                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 570.82                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 759.81                 |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3349 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 3,933.52                  | 732.10                  |
| <i>For Class 52 Rating, Deduct</i>  | -310.67                   |                         |
| <i>For Class 54 Rating, Add</i>   | 436.95                    |                         |
| <i>For Class 55 Rating, Add</i>   | 656.44                    |                         |
| <i>For Class 56 Rating, Add</i>   | 873.10                    |                         |
| 40 05 19 00-3350 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,322.01                  | 735.46                  |
| <i>For Class 52 Rating, Deduct</i>  | -352.84                   |                         |
| <i>For Class 54 Rating, Add</i>   | 494.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 742.06                    |                         |
| <i>For Class 56 Rating, Add</i>   | 986.38                    |                         |
| 40 05 19 00-3351 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 4,710.51                  | 738.83                  |
| <i>For Class 52 Rating, Deduct</i>  | -395.02                   |                         |
| <i>For Class 54 Rating, Add</i>   | 552.09                    |                         |
| <i>For Class 55 Rating, Add</i>   | 827.68                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,099.67                  |                         |
| 40 05 19 00-3352 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,099.00                  | 742.20                  |
| <i>For Class 52 Rating, Deduct</i>  | -437.19                   |                         |
| <i>For Class 54 Rating, Add</i>   | 609.66                    |                         |
| <i>For Class 55 Rating, Add</i>   | 913.29                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,212.95                  |                         |
| 40 05 19 00-3353 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,487.48                  | 745.55                  |
| <i>For Class 52 Rating, Deduct</i>  | -479.36                   |                         |
| <i>For Class 54 Rating, Add</i>   | 667.23                    |                         |
| <i>For Class 55 Rating, Add</i>   | 998.91                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,326.23                  |                         |
| 40 05 19 00-3354 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,875.97                  | 748.93                  |
| <i>For Class 52 Rating, Deduct</i>  | -521.54                   |                         |
| <i>For Class 54 Rating, Add</i>   | 724.80                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,084.53                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,439.51                  |                         |
| 40 05 19 00-3355 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,264.46                  | 752.30                  |
| <i>For Class 52 Rating, Deduct</i>  | -563.71                   |                         |
| <i>For Class 54 Rating, Add</i>   | 782.37                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,170.15                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,552.80                  |                         |
| 40 05 19 00-3356 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,652.96                  | 755.67                  |
| <i>For Class 52 Rating, Deduct</i>  | -605.88                   |                         |
| <i>For Class 54 Rating, Add</i>   | 839.94                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,255.77                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,666.08                  |                         |
| 40 05 19 00-3357 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,041.45                  | 759.03                  |
| <i>For Class 52 Rating, Deduct</i>  | -648.05                   |                         |
| <i>For Class 54 Rating, Add</i>   | 897.51                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,341.38                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,779.36                  |                         |
| 40 05 19 00-3358 EA 18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,429.93                  | 762.40                  |
| <i>For Class 52 Rating, Deduct</i>  | -690.23                   |                         |
| <i>For Class 54 Rating, Add</i>   | 955.08                    |                         |
| <i>For Class 55 Rating, Add</i>   | 1,427.00                  |                         |
| <i>For Class 56 Rating, Add</i>   | 1,892.65                  |                         |
| 40 05 19 00-3359 EA 18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,818.42                  | 765.77                  |
| <i>For Class 52 Rating, Deduct</i>  | -732.40                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,012.65                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,512.62                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,005.93                  |                         |
| 40 05 19 00-3360 EA 18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,206.92                  | 769.13                  |
| <i>For Class 52 Rating, Deduct</i>  | -774.57                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,070.22                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,598.24                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,119.21                  |                         |
| 40 05 19 00-3361 EA 18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,595.41                  | 772.50                  |
| <i>For Class 52 Rating, Deduct</i>  | -816.74                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,127.79                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,683.85                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,232.50                  |                         |
| 40 05 19 00-3362 EA 18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,983.90                  | 775.87                  |
| <i>For Class 52 Rating, Deduct</i>  | -858.92                   |                         |
| <i>For Class 54 Rating, Add</i>   | 1,185.36                  |                         |
| <i>For Class 55 Rating, Add</i>   | 1,769.47                  |                         |
| <i>For Class 56 Rating, Add</i>   | 2,345.78                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-3363 | EA  |     | 18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 9,372.38               | 779.24               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -901.09                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,242.93               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,855.09               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,459.06               |                      |
| 40 05 19 00-3364 | EA  |     | 18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 9,760.87               | 782.60               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -943.26                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,300.50               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,940.71               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,572.34               |                      |
| 40 05 19 00-3365 | EA  |     | 18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 10,149.37              | 785.97               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -985.44                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,358.07               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,026.33               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,685.63               |                      |
| 40 05 19 00-3366 | EA  |     | 18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 10,537.86              | 789.35               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,027.61              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,415.64               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,111.94               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,798.91               |                      |
| 40 05 19 00-3367 | EA  |     | 18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 10,926.35              | 792.70               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,069.78              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,473.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,197.56               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,912.20               |                      |
| 40 05 19 00-3368 | EA  |     | 18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 11,314.83              | 796.07               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,111.95              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,530.77               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,283.18               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,025.48               |                      |
| 40 05 19 00-3369 | EA  |     | 18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 11,703.32              | 799.44               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,154.13              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,588.34               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,368.80               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,138.76               |                      |
| 40 05 19 00-3370 | EA  |     | 18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 12,091.82              | 802.82               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,196.30              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,645.91               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,454.42               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,252.04               |                      |
| 40 05 19 00-3371 | EA  |     | 18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 12,480.31              | 806.17               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,238.47              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,703.48               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,540.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,365.33               |                      |
| 40 05 19 00-3372 | EA  |     | 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 12,868.80              | 809.55               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,280.64              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,761.05               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,625.65               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,478.61               |                      |
| 40 05 19 00-3373 | EA  |     | 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 13,257.28              | 812.91               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,322.82              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,818.62               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,711.27               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,591.89               |                      |
| 40 05 19 00-3374 | EA  |     | 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 13,645.78              | 816.29               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,364.99              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,876.19               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,796.89               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,705.18               |                      |
| 40 05 19 00-3375 | EA  |     | 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 14,034.27              | 819.64               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,407.16              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,933.76               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,882.51               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,818.46               |                      |
| 40 05 19 00-3376 | EA  |     | 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 14,422.76              | 823.02               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,449.33              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,991.33               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,968.12               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,931.74               |                      |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3377 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 14,811.25                 | 826.38                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,491.51                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,048.90                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,053.74                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,045.03                  |                         |
| 40 05 19 00-3378 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 15,199.73                 | 829.75                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,533.68                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,106.47                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,139.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,158.31                  |                         |
| 40 05 19 00-3379 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 15,588.23                 | 833.11                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,575.85                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,164.04                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,224.98                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,271.59                  |                         |
| 40 05 19 00-3380 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 15,976.72                 | 836.49                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,618.03                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,221.61                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,310.60                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,384.88                  |                         |
| 40 05 19 00-3381 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 16,365.21                 | 839.85                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,660.20                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,279.18                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,396.21                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,498.16                  |                         |
| 40 05 19 00-3382 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 16,753.70                 | 843.22                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,702.37                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,336.75                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,481.83                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,611.44                  |                         |
| 40 05 19 00-3383 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 17,142.18                 | 846.58                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,744.54                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,394.31                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,567.45                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,724.72                  |                         |
| 40 05 19 00-3384 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 17,530.68                 | 849.96                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,786.72                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,451.88                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,653.07                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,838.01                  |                         |
| 40 05 19 00-3385 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 17,919.17                 | 853.31                  |
| <i>For Class 52 Rating, Deduct</i>  | -1,828.89                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,509.45                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,738.69                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,951.29                  |                         |
| <b>40 05 19 00-3386 20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3387 EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....               | 4,122.88                  | 831.77                  |
| <i>For Class 52 Rating, Deduct</i>  | -314.89                   |                         |
| <i>For Class 54 Rating, Add</i>   | 444.52                    |                         |
| <i>For Class 55 Rating, Add</i>   | 668.61                    |                         |
| <i>For Class 56 Rating, Add</i>   | 889.84                    |                         |
| 40 05 19 00-3388 EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....               | 4,565.04                  | 835.15                  |
| <i>For Class 52 Rating, Deduct</i>  | -362.97                   |                         |
| <i>For Class 54 Rating, Add</i>   | 510.14                    |                         |
| <i>For Class 55 Rating, Add</i>   | 766.20                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,018.96                  |                         |
| 40 05 19 00-3389 EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....               | 5,007.22                  | 838.50                  |
| <i>For Class 52 Rating, Deduct</i>  | -411.04                   |                         |
| <i>For Class 54 Rating, Add</i>   | 575.76                    |                         |
| <i>For Class 55 Rating, Add</i>   | 863.79                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,148.08                  |                         |
| 40 05 19 00-3390 EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....               | 5,449.38                  | 841.87                  |
| <i>For Class 52 Rating, Deduct</i>  | -459.12                   |                         |
| <i>For Class 54 Rating, Add</i>   | 641.38                    |                         |
| <i>For Class 55 Rating, Add</i>   | 961.38                    |                         |
| <i>For Class 56 Rating, Add</i>   | 1,277.20                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-3391 | EA  |     | 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 5,891.54                  | 845.24                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -507.20                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 707.00                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,058.96                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,406.31                  |                         |
| 40 05 19 00-3392 | EA  |     | 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,333.71                  | 848.60                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -555.27                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 772.62                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,156.55                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,535.43                  |                         |
| 40 05 19 00-3393 | EA  |     | 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 6,775.87                  | 851.97                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -603.35                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 838.24                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,254.14                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,664.55                  |                         |
| 40 05 19 00-3394 | EA  |     | 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,218.05                  | 855.35                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -651.43                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 903.86                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,351.73                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,793.67                  |                         |
| 40 05 19 00-3395 | EA  |     | 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 7,660.21                  | 858.71                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -699.50                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 969.48                    |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,449.31                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 1,922.78                  |                         |
| 40 05 19 00-3396 | EA  |     | 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,102.37                  | 862.07                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -747.58                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,035.10                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,546.90                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,051.90                  |                         |
| 40 05 19 00-3397 | EA  |     | 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,544.53                  | 865.44                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -795.66                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,100.72                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,644.49                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,181.01                  |                         |
| 40 05 19 00-3398 | EA  |     | 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 8,986.70                  | 868.82                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -843.74                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,166.34                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,742.07                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,310.13                  |                         |
| 40 05 19 00-3399 | EA  |     | 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,428.87                  | 872.17                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -891.81                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,231.96                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,839.66                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,439.25                  |                         |
| 40 05 19 00-3400 | EA  |     | 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 9,871.03                  | 875.54                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -939.89                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,297.59                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 1,937.25                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,568.37                  |                         |
| 40 05 19 00-3401 | EA  |     | 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 10,313.19                 | 878.91                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -987.97                   |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,363.21                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,034.84                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,697.48                  |                         |
| 40 05 19 00-3402 | EA  |     | 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 10,755.36                 | 882.29                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,036.04                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,428.83                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,132.42                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,826.60                  |                         |
| 40 05 19 00-3403 | EA  |     | 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 11,197.53                 | 885.64                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,084.12                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,494.45                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,230.01                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 2,955.72                  |                         |
| 40 05 19 00-3404 | EA  |     | 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 11,639.69                 | 889.02                  |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -1,132.20                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 1,560.07                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 2,327.60                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 3,084.84                  |                         |



|   |                 |
|---|-----------------|
| <b>Process Interconnections</b>                         | <b>40</b>       |
| <b>Common Work Results For Process Interconnections</b> |                 |
| <b>Ductile Iron Process Pipe</b>                        | <b>40 05 19</b> |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3405 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,081.85                 | 892.39                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,180.27                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,625.69                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,425.18                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,213.95                  |                         |
| 40 05 19 00-3406 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,524.01                 | 895.76                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,228.35                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,691.31                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,522.77                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,343.07                  |                         |
| 40 05 19 00-3407 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,966.18                 | 899.12                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,276.43                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,756.93                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,620.36                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,472.19                  |                         |
| 40 05 19 00-3408 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 13,408.35                 | 902.49                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,324.50                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,822.55                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,717.95                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,601.30                  |                         |
| 40 05 19 00-3409 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 13,850.51                 | 905.86                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,372.58                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,888.17                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,815.53                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,730.42                  |                         |
| 40 05 19 00-3410 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 14,292.67                 | 909.21                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,420.66                 |                         |
| <i>For Class 54 Rating, Add</i>  | 1,953.79                  |                         |
| <i>For Class 55 Rating, Add</i>  | 2,913.12                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,859.54                  |                         |
| 40 05 19 00-3411 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 14,734.84                 | 912.59                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,468.73                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,019.41                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,010.71                  |                         |
| <i>For Class 56 Rating, Add</i>  | 3,988.66                  |                         |
| 40 05 19 00-3412 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 15,177.00                 | 915.96                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,516.81                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,085.03                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,108.30                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,117.77                  |                         |
| 40 05 19 00-3413 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 15,619.17                 | 919.33                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,564.89                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,150.65                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,205.88                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,246.89                  |                         |
| 40 05 19 00-3414 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 16,061.33                 | 922.69                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,612.96                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,216.27                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,303.47                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,376.01                  |                         |
| 40 05 19 00-3415 EA 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 16,503.50                 | 926.06                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,661.04                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,281.89                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,401.06                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,505.12                  |                         |
| 40 05 19 00-3416 EA 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 16,945.66                 | 929.43                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,709.12                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,347.51                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,498.65                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,634.24                  |                         |
| 40 05 19 00-3417 EA 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 17,387.83                 | 932.79                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,757.20                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,413.13                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,596.23                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,763.36                  |                         |
| 40 05 19 00-3418 EA 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 17,829.99                 | 936.16                  |
| <i>For Class 52 Rating, Deduct</i>   | -1,805.27                 |                         |
| <i>For Class 54 Rating, Add</i>  | 2,478.76                  |                         |
| <i>For Class 55 Rating, Add</i>  | 3,693.82                  |                         |
| <i>For Class 56 Rating, Add</i>  | 4,892.47                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-3419 | EA  |     | 20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 18,272.15              | 939.53               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,853.35              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,544.38               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,791.41               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,021.59               |                      |
| 40 05 19 00-3420 | EA  |     | 20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 18,714.32              | 942.91               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,901.43              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,610.00               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,889.00               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,150.71               |                      |
| 40 05 19 00-3421 | EA  |     | 20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 19,156.48              | 946.26               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,949.50              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,675.62               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,986.58               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,279.83               |                      |
| 40 05 19 00-3422 | EA  |     | 20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 19,598.65              | 949.63               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,997.58              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,741.24               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,084.17               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,408.94               |                      |
| 40 05 19 00-3423 | EA  |     | 20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 20,040.81              | 953.00               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,045.66              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,806.86               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,181.76               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,538.06               |                      |
| 40 05 19 00-3424 | EA  |     | 20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 20,482.98              | 956.35               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,093.73              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,872.48               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,279.35               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,667.18               |                      |
| 40 05 19 00-3425 |     |     | <b>24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                        |                      |
| 40 05 19 00-3426 | EA  |     | 24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 5,063.04               | 983.31               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -393.05                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 553.86                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 832.58                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,107.72               |                      |
| 40 05 19 00-3427 | EA  |     | 24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 5,609.99               | 986.67               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -452.65                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 635.19                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 953.53                 |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,267.75               |                      |
| 40 05 19 00-3428 | EA  |     | 24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 6,156.95               | 990.05               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -512.26                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 716.53                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,074.49               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,427.78               |                      |
| 40 05 19 00-3429 | EA  |     | 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 6,703.90               | 993.40               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -571.86                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 797.87                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,195.44               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,587.81               |                      |
| 40 05 19 00-3430 | EA  |     | 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 7,250.87               | 996.78               |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -631.47                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 879.21                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,316.40               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,747.85               |                      |
| 40 05 19 00-3431 | EA  |     | 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 7,797.82               | 1,000.14             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -691.07                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 960.55                 |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,437.36               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 1,907.88               |                      |
| 40 05 19 00-3432 | EA  |     | 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 8,344.78               | 1,003.52             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -750.67                |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,041.89               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 1,558.31               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 2,067.91               |                      |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3433 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 8,891.73                  | 1,006.87                |
| For Class 52 Rating, Deduct  | -810.28                   |                         |
| For Class 54 Rating, Add   | 1,123.23                  |                         |
| For Class 55 Rating, Add   | 1,679.27                  |                         |
| For Class 56 Rating, Add   | 2,227.94                  |                         |
| 40 05 19 00-3434 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,438.70                  | 1,010.25                |
| For Class 52 Rating, Deduct  | -869.88                   |                         |
| For Class 54 Rating, Add   | 1,204.57                  |                         |
| For Class 55 Rating, Add   | 1,800.22                  |                         |
| For Class 56 Rating, Add   | 2,387.97                  |                         |
| 40 05 19 00-3435 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 9,985.65                  | 1,013.62                |
| For Class 52 Rating, Deduct  | -929.49                   |                         |
| For Class 54 Rating, Add   | 1,285.91                  |                         |
| For Class 55 Rating, Add   | 1,921.18                  |                         |
| For Class 56 Rating, Add   | 2,548.00                  |                         |
| 40 05 19 00-3436 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 10,532.61                 | 1,016.98                |
| For Class 52 Rating, Deduct  | -989.09                   |                         |
| For Class 54 Rating, Add   | 1,367.25                  |                         |
| For Class 55 Rating, Add   | 2,042.14                  |                         |
| For Class 56 Rating, Add   | 2,708.03                  |                         |
| 40 05 19 00-3437 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,079.56                 | 1,020.34                |
| For Class 52 Rating, Deduct  | -1,048.69                 |                         |
| For Class 54 Rating, Add   | 1,448.59                  |                         |
| For Class 55 Rating, Add   | 2,163.09                  |                         |
| For Class 56 Rating, Add   | 2,868.06                  |                         |
| 40 05 19 00-3438 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 11,626.52                 | 1,023.72                |
| For Class 52 Rating, Deduct  | -1,108.30                 |                         |
| For Class 54 Rating, Add   | 1,529.93                  |                         |
| For Class 55 Rating, Add   | 2,284.05                  |                         |
| For Class 56 Rating, Add   | 3,028.09                  |                         |
| 40 05 19 00-3439 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,173.48                 | 1,027.09                |
| For Class 52 Rating, Deduct  | -1,167.90                 |                         |
| For Class 54 Rating, Add   | 1,611.27                  |                         |
| For Class 55 Rating, Add   | 2,405.00                  |                         |
| For Class 56 Rating, Add   | 3,188.12                  |                         |
| 40 05 19 00-3440 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 12,720.44                 | 1,030.45                |
| For Class 52 Rating, Deduct  | -1,227.51                 |                         |
| For Class 54 Rating, Add   | 1,692.61                  |                         |
| For Class 55 Rating, Add   | 2,525.96                  |                         |
| For Class 56 Rating, Add   | 3,348.16                  |                         |
| 40 05 19 00-3441 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 13,267.39                 | 1,033.82                |
| For Class 52 Rating, Deduct  | -1,287.11                 |                         |
| For Class 54 Rating, Add   | 1,773.95                  |                         |
| For Class 55 Rating, Add   | 2,646.92                  |                         |
| For Class 56 Rating, Add   | 3,508.19                  |                         |
| 40 05 19 00-3442 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 13,814.35                 | 1,037.19                |
| For Class 52 Rating, Deduct  | -1,346.71                 |                         |
| For Class 54 Rating, Add   | 1,855.29                  |                         |
| For Class 55 Rating, Add   | 2,767.87                  |                         |
| For Class 56 Rating, Add   | 3,668.22                  |                         |
| 40 05 19 00-3443 EA 24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 14,361.30                 | 1,040.55                |
| For Class 52 Rating, Deduct  | -1,406.32                 |                         |
| For Class 54 Rating, Add   | 1,936.63                  |                         |
| For Class 55 Rating, Add   | 2,888.83                  |                         |
| For Class 56 Rating, Add   | 3,828.25                  |                         |
| 40 05 19 00-3444 EA 24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 14,908.27                 | 1,043.92                |
| For Class 52 Rating, Deduct  | -1,465.92                 |                         |
| For Class 54 Rating, Add   | 2,017.97                  |                         |
| For Class 55 Rating, Add   | 3,009.79                  |                         |
| For Class 56 Rating, Add   | 3,988.28                  |                         |
| 40 05 19 00-3445 EA 24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 15,455.22                 | 1,047.29                |
| For Class 52 Rating, Deduct  | -1,525.53                 |                         |
| For Class 54 Rating, Add   | 2,099.30                  |                         |
| For Class 55 Rating, Add   | 3,130.74                  |                         |
| For Class 56 Rating, Add   | 4,148.31                  |                         |
| 40 05 19 00-3446 EA 24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 16,002.18                 | 1,050.66                |
| For Class 52 Rating, Deduct  | -1,585.13                 |                         |
| For Class 54 Rating, Add   | 2,180.64                  |                         |
| For Class 55 Rating, Add   | 3,251.70                  |                         |
| For Class 56 Rating, Add   | 4,308.34                  |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-3447 | EA  |     | 24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 16,549.13                 | 1,054.02                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,644.73                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,261.98                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,372.65                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,468.37                  |                         |
| 40 05 19 00-3448 | EA  |     | 24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 17,096.10                 | 1,057.39                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,704.34                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,343.32                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,493.61                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,628.40                  |                         |
| 40 05 19 00-3449 | EA  |     | 24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 17,643.05                 | 1,060.76                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,763.94                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,424.66                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,614.57                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,788.43                  |                         |
| 40 05 19 00-3450 | EA  |     | 24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 18,190.01                 | 1,064.14                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,823.55                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,506.00                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,735.52                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,948.46                  |                         |
| 40 05 19 00-3451 | EA  |     | 24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 18,736.96                 | 1,067.49                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,883.15                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,587.34                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,856.48                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,108.49                  |                         |
| 40 05 19 00-3452 | EA  |     | 24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 19,283.92                 | 1,070.86                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,942.76                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,668.68                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,977.43                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,268.53                  |                         |
| 40 05 19 00-3453 | EA  |     | 24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 19,830.88                 | 1,074.23                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,002.36                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,750.02                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,098.39                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,428.56                  |                         |
| 40 05 19 00-3454 | EA  |     | 24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 20,377.84                 | 1,077.59                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,061.96                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,831.36                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,219.35                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,588.59                  |                         |
| 40 05 19 00-3455 | EA  |     | 24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 21,011.53                 | 1,138.21                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,121.57                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,913.74                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,342.38                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,751.74                  |                         |
| 40 05 19 00-3456 | EA  |     | 24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 21,558.49                 | 1,141.57                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,181.17                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,995.08                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,463.34                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,911.77                  |                         |
| 40 05 19 00-3457 | EA  |     | 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 22,105.44                 | 1,144.95                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,240.77                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,076.42                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,584.30                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,071.80                  |                         |
| 40 05 19 00-3458 | EA  |     | 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 22,652.40                 | 1,148.32                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,300.38                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,157.76                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,705.25                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,231.83                  |                         |
| 40 05 19 00-3459 | EA  |     | 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 23,199.36                 | 1,151.68                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,359.98                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,239.10                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,826.21                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,391.86                  |                         |
| 40 05 19 00-3460 | EA  |     | 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 26,302.24                 | 1,155.05                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,700.74                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,703.83                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 5,517.14                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 7,305.89                  |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3461 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....       | 24,293.27                 | 1,158.42                |
| For Class 52 Rating, Deduct  | -2,479.19                 |                         |
| For Class 54 Rating, Add   | 3,401.78                  |                         |
| For Class 55 Rating, Add   | 5,068.12                  |                         |
| For Class 56 Rating, Add   | 6,711.93                  |                         |
| 40 05 19 00-3462 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....       | 24,840.23                 | 1,161.78                |
| For Class 52 Rating, Deduct  | -2,538.80                 |                         |
| For Class 54 Rating, Add   | 3,483.12                  |                         |
| For Class 55 Rating, Add   | 5,189.08                  |                         |
| For Class 56 Rating, Add   | 6,871.96                  |                         |
| 40 05 19 00-3463 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....       | 25,387.18                 | 1,165.15                |
| For Class 52 Rating, Deduct  | -2,598.40                 |                         |
| For Class 54 Rating, Add   | 3,564.46                  |                         |
| For Class 55 Rating, Add   | 5,310.03                  |                         |
| For Class 56 Rating, Add   | 7,031.99                  |                         |
| <br><b>40 05 19 00-3464 30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined<br/>(P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3068)</b> |                           |                         |
| 40 05 19 00-3465 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 8,476.59                  | 1,387.41                |
| For Class 52 Rating, Deduct  | -701.19                   |                         |
| For Class 54 Rating, Add   | 981.39                    |                         |
| For Class 55 Rating, Add   | 1,471.96                  |                         |
| For Class 56 Rating, Add   | 1,956.14                  |                         |
| 40 05 19 00-3466 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 9,258.69                  | 1,390.76                |
| For Class 52 Rating, Deduct  | -786.66                   |                         |
| For Class 54 Rating, Add   | 1,098.01                  |                         |
| For Class 55 Rating, Add   | 1,645.35                  |                         |
| For Class 56 Rating, Add   | 2,185.54                  |                         |
| 40 05 19 00-3467 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 10,040.79                 | 1,394.14                |
| For Class 52 Rating, Deduct  | -872.13                   |                         |
| For Class 54 Rating, Add   | 1,214.62                  |                         |
| For Class 55 Rating, Add   | 1,818.74                  |                         |
| For Class 56 Rating, Add   | 2,414.94                  |                         |
| 40 05 19 00-3468 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 10,822.89                 | 1,397.51                |
| For Class 52 Rating, Deduct  | -957.60                   |                         |
| For Class 54 Rating, Add   | 1,331.23                  |                         |
| For Class 55 Rating, Add   | 1,992.14                  |                         |
| For Class 56 Rating, Add   | 2,644.34                  |                         |
| 40 05 19 00-3469 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 11,604.99                 | 1,400.88                |
| For Class 52 Rating, Deduct  | -1,043.07                 |                         |
| For Class 54 Rating, Add   | 1,447.84                  |                         |
| For Class 55 Rating, Add   | 2,165.53                  |                         |
| For Class 56 Rating, Add   | 2,873.74                  |                         |
| 40 05 19 00-3470 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 12,387.10                 | 1,404.23                |
| For Class 52 Rating, Deduct  | -1,128.54                 |                         |
| For Class 54 Rating, Add   | 1,564.45                  |                         |
| For Class 55 Rating, Add   | 2,338.92                  |                         |
| For Class 56 Rating, Add   | 3,103.14                  |                         |
| 40 05 19 00-3471 EA 30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 13,169.20                 | 1,407.61                |
| For Class 52 Rating, Deduct  | -1,214.01                 |                         |
| For Class 54 Rating, Add   | 1,681.06                  |                         |
| For Class 55 Rating, Add   | 2,512.32                  |                         |
| For Class 56 Rating, Add   | 3,332.53                  |                         |
| 40 05 19 00-3472 EA 30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 13,951.30                 | 1,410.98                |
| For Class 52 Rating, Deduct  | -1,299.48                 |                         |
| For Class 54 Rating, Add   | 1,797.67                  |                         |
| For Class 55 Rating, Add   | 2,685.71                  |                         |
| For Class 56 Rating, Add   | 3,561.93                  |                         |
| 40 05 19 00-3473 EA 30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 14,733.40                 | 1,414.34                |
| For Class 52 Rating, Deduct  | -1,384.95                 |                         |
| For Class 54 Rating, Add   | 1,914.28                  |                         |
| For Class 55 Rating, Add   | 2,859.10                  |                         |
| For Class 56 Rating, Add   | 3,791.33                  |                         |
| 40 05 19 00-3474 EA 30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....        | 15,515.51                 | 1,417.71                |
| For Class 52 Rating, Deduct  | -1,470.42                 |                         |
| For Class 54 Rating, Add   | 2,030.90                  |                         |
| For Class 55 Rating, Add   | 3,032.50                  |                         |
| For Class 56 Rating, Add   | 4,020.73                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|--|---------------------------|-------------------------|
| 40 05 19 00-3475 | EA  |     | 30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 16,297.61                 | 1,421.08                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,555.89                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,147.51                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,205.89                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,250.13                  |                         |
| 40 05 19 00-3476 | EA  |     | 30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 17,079.71                 | 1,424.45                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,641.36                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,264.12                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,379.28                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,479.53                  |                         |
| 40 05 19 00-3477 | EA  |     | 30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 17,861.81                 | 1,427.81                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,726.83                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,380.73                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,552.68                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,708.93                  |                         |
| 40 05 19 00-3478 | EA  |     | 30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 18,643.91                 | 1,431.18                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,812.30                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,497.34                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,726.07                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,938.32                  |                         |
| 40 05 19 00-3479 | EA  |     | 30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 19,426.02                 | 1,434.55                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,897.77                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,613.95                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,899.46                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,167.72                  |                         |
| 40 05 19 00-3480 | EA  |     | 30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 20,208.12                 | 1,437.91                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,983.24                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,730.56                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,072.86                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,397.12                  |                         |
| 40 05 19 00-3481 | EA  |     | 30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 20,990.22                 | 1,441.28                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,068.71                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,847.17                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,246.25                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,626.52                  |                         |
| 40 05 19 00-3482 | EA  |     | 30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....  | 21,772.32                 | 1,444.65                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,154.18                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,963.79                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,419.64                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,855.92                  |                         |
| 40 05 19 00-3483 | EA  |     | 30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 22,554.42                 | 1,448.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,239.65                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,080.40                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,593.04                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,085.32                  |                         |
| 40 05 19 00-3484 | EA  |     | 30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 23,336.53                 | 1,451.38                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,325.12                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,197.01                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,766.43                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,314.72                  |                         |
| 40 05 19 00-3485 | EA  |     | 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 24,118.63                 | 1,454.75                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,410.59                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,313.62                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,939.82                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,544.12                  |                         |
| 40 05 19 00-3486 | EA  |     | 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 24,900.73                 | 1,458.12                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,496.06                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,430.23                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 5,113.22                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,773.51                  |                         |
| 40 05 19 00-3487 | EA  |     | 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 25,682.83                 | 1,461.48                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,581.53                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,546.84                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 5,286.61                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 7,002.91                  |                         |
| 40 05 19 00-3488 | EA  |     | 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 26,464.94                 | 1,464.85                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,667.00                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,663.45                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 5,460.01                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 7,232.31                  |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3489 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 27,247.04                 | 1,468.23                |
| For Class 52 Rating, Deduct   | -2,752.47                 |                         |
| For Class 54 Rating, Add  | 3,780.06                  |                         |
| For Class 55 Rating, Add  | 5,633.40                  |                         |
| For Class 56 Rating, Add  | 7,461.71                  |                         |
| 40 05 19 00-3490 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 28,029.14                 | 1,471.59                |
| For Class 52 Rating, Deduct   | -2,837.94                 |                         |
| For Class 54 Rating, Add  | 3,896.68                  |                         |
| For Class 55 Rating, Add  | 5,806.79                  |                         |
| For Class 56 Rating, Add  | 7,691.11                  |                         |
| 40 05 19 00-3491 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 28,811.24                 | 1,474.96                |
| For Class 52 Rating, Deduct   | -2,923.41                 |                         |
| For Class 54 Rating, Add  | 4,013.29                  |                         |
| For Class 55 Rating, Add  | 5,980.19                  |                         |
| For Class 56 Rating, Add  | 7,920.51                  |                         |
| 40 05 19 00-3492 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 29,593.34                 | 1,478.32                |
| For Class 52 Rating, Deduct   | -3,008.88                 |                         |
| For Class 54 Rating, Add  | 4,129.90                  |                         |
| For Class 55 Rating, Add  | 6,153.58                  |                         |
| For Class 56 Rating, Add  | 8,149.91                  |                         |
| 40 05 19 00-3493 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 30,375.45                 | 1,481.70                |
| For Class 52 Rating, Deduct   | -3,094.35                 |                         |
| For Class 54 Rating, Add  | 4,246.51                  |                         |
| For Class 55 Rating, Add  | 6,326.97                  |                         |
| For Class 56 Rating, Add  | 8,379.31                  |                         |
| 40 05 19 00-3494 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 31,157.55                 | 1,485.06                |
| For Class 52 Rating, Deduct   | -3,179.82                 |                         |
| For Class 54 Rating, Add  | 4,363.12                  |                         |
| For Class 55 Rating, Add  | 6,500.37                  |                         |
| For Class 56 Rating, Add  | 8,608.70                  |                         |
| 40 05 19 00-3495 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 31,939.64                 | 1,488.43                |
| For Class 52 Rating, Deduct   | -3,265.29                 |                         |
| For Class 54 Rating, Add  | 4,479.73                  |                         |
| For Class 55 Rating, Add  | 6,673.76                  |                         |
| For Class 56 Rating, Add  | 8,838.10                  |                         |
| 40 05 19 00-3496 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 32,721.74                 | 1,491.79                |
| For Class 52 Rating, Deduct   | -3,350.76                 |                         |
| For Class 54 Rating, Add  | 4,596.34                  |                         |
| For Class 55 Rating, Add  | 6,847.15                  |                         |
| For Class 56 Rating, Add  | 9,067.50                  |                         |
| 40 05 19 00-3497 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 33,503.85                 | 1,495.17                |
| For Class 52 Rating, Deduct   | -3,436.23                 |                         |
| For Class 54 Rating, Add  | 4,712.95                  |                         |
| For Class 55 Rating, Add  | 7,020.54                  |                         |
| For Class 56 Rating, Add  | 9,296.90                  |                         |
| 40 05 19 00-3498 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 34,285.95                 | 1,498.52                |
| For Class 52 Rating, Deduct   | -3,521.70                 |                         |
| For Class 54 Rating, Add  | 4,829.56                  |                         |
| For Class 55 Rating, Add  | 7,193.94                  |                         |
| For Class 56 Rating, Add  | 9,526.30                  |                         |
| 40 05 19 00-3499 EA 30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....              | 35,068.05                 | 1,501.90                |
| For Class 52 Rating, Deduct   | -3,607.17                 |                         |
| For Class 54 Rating, Add  | 4,946.17                  |                         |
| For Class 55 Rating, Add  | 7,367.33                  |                         |
| For Class 56 Rating, Add  | 9,755.69                  |                         |
| <br>40 05 19 00-3500 36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined<br>(P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small> |                           |                         |
| 40 05 19 00-3501 EA 36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....               | 10,602.06                 | 1,757.83                |
| For Class 52 Rating, Deduct   | -873.26                   |                         |
| For Class 54 Rating, Add  | 1,222.76                  |                         |
| For Class 55 Rating, Add  | 1,834.25                  |                         |
| For Class 56 Rating, Add  | 2,437.79                  |                         |
| 40 05 19 00-3502 EA 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe.....               | 11,649.97                 | 1,761.21                |
| For Class 52 Rating, Deduct   | -987.97                   |                         |
| For Class 54 Rating, Add  | 1,379.25                  |                         |
| For Class 55 Rating, Add  | 2,066.92                  |                         |
| For Class 56 Rating, Add  | 2,745.61                  |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|-----|-----|---|---------------------------|-------------------------|
| 40 05 19 00-3503 | EA  |     | 36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 12,697.90                 | 1,764.56                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,102.68                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,535.73                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,299.59                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,053.42                  |                         |
| 40 05 19 00-3504 | EA  |     | 36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 13,745.81                 | 1,767.93                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,217.38                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,692.21                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,532.26                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,361.24                  |                         |
| 40 05 19 00-3505 | EA  |     | 36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 14,793.73                 | 1,771.30                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,332.09                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 1,848.70                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,764.93                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,669.05                  |                         |
| 40 05 19 00-3506 | EA  |     | 36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 15,841.64                 | 1,774.65                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,446.80                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,005.18                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 2,997.60                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 3,976.86                  |                         |
| 40 05 19 00-3507 | EA  |     | 36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 16,889.57                 | 1,778.03                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,561.51                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,161.66                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,230.27                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,284.68                  |                         |
| 40 05 19 00-3508 | EA  |     | 36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 17,937.49                 | 1,781.41                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,676.22                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,318.15                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,462.94                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,592.50                  |                         |
| 40 05 19 00-3509 | EA  |     | 36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 18,985.40                 | 1,784.77                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,790.93                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,474.63                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,695.61                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 4,900.31                  |                         |
| 40 05 19 00-3510 | EA  |     | 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 20,033.32                 | 1,788.12                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -1,905.64                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,631.12                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 3,928.28                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,208.12                  |                         |
| 40 05 19 00-3511 | EA  |     | 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 21,081.23                 | 1,791.50                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,020.35                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,787.60                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,160.95                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,515.94                  |                         |
| 40 05 19 00-3512 | EA  |     | 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 22,129.16                 | 1,794.88                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,135.06                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 2,944.08                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,393.62                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 5,823.75                  |                         |
| 40 05 19 00-3513 | EA  |     | 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 23,177.07                 | 1,798.23                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,249.77                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,100.57                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,626.29                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,131.56                  |                         |
| 40 05 19 00-3514 | EA  |     | 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 24,224.99                 | 1,801.61                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,364.48                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,257.05                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 4,858.96                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,439.38                  |                         |
| 40 05 19 00-3515 | EA  |     | 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 25,272.90                 | 1,804.97                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,479.19                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,413.53                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,091.63                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 6,747.19                  |                         |
| 40 05 19 00-3516 | EA  |     | 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal<br>Coat, Ductile Iron Pipe..... | 26,320.83                 | 1,808.35                |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -2,593.90                 |                         |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 3,570.02                  |                         |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 5,324.30                  |                         |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 7,055.01                  |                         |



|  |
|--|
| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3517 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 27,368.74                 | 1,811.70                |
| <i>For Class 52 Rating, Deduct</i>   | -2,708.61                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,726.50                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,556.97                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,362.82                  |                         |
| 40 05 19 00-3518 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                           |                         |
| Coat, Ductile Iron Pipe.....   | 28,416.66                 | 1,815.08                |
| <i>For Class 52 Rating, Deduct</i>   | -2,823.32                 |                         |
| <i>For Class 54 Rating, Add</i>  | 3,882.98                  |                         |
| <i>For Class 55 Rating, Add</i>  | 5,789.64                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,670.64                  |                         |
| 40 05 19 00-3519 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 29,464.57                 | 1,818.44                |
| <i>For Class 52 Rating, Deduct</i>   | -2,938.03                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,039.47                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,022.31                  |                         |
| <i>For Class 56 Rating, Add</i>  | 7,978.45                  |                         |
| 40 05 19 00-3520 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 30,512.49                 | 1,821.82                |
| <i>For Class 52 Rating, Deduct</i>   | -3,052.74                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,195.95                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,254.98                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,286.26                  |                         |
| 40 05 19 00-3521 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 31,560.41                 | 1,825.17                |
| <i>For Class 52 Rating, Deduct</i>   | -3,167.45                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,352.43                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,487.65                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,594.08                  |                         |
| 40 05 19 00-3522 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 32,608.33                 | 1,828.55                |
| <i>For Class 52 Rating, Deduct</i>   | -3,282.16                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,508.92                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,720.32                  |                         |
| <i>For Class 56 Rating, Add</i>  | 8,901.89                  |                         |
| 40 05 19 00-3523 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 33,656.25                 | 1,831.92                |
| <i>For Class 52 Rating, Deduct</i>   | -3,396.87                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,665.40                  |                         |
| <i>For Class 55 Rating, Add</i>  | 6,953.00                  |                         |
| <i>For Class 56 Rating, Add</i>  | 9,209.71                  |                         |
| 40 05 19 00-3524 EA 36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 34,704.16                 | 1,835.28                |
| <i>For Class 52 Rating, Deduct</i>   | -3,511.58                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,821.88                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,185.66                  |                         |
| <i>For Class 56 Rating, Add</i>  | 9,517.52                  |                         |
| 40 05 19 00-3525 EA 36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 35,752.08                 | 1,838.64                |
| <i>For Class 52 Rating, Deduct</i>   | -3,626.29                 |                         |
| <i>For Class 54 Rating, Add</i>  | 4,978.37                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,418.34                  |                         |
| <i>For Class 56 Rating, Add</i>  | 9,825.34                  |                         |
| 40 05 19 00-3526 EA 36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 36,800.00                 | 1,842.02                |
| <i>For Class 52 Rating, Deduct</i>   | -3,741.00                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,134.85                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,651.00                  |                         |
| <i>For Class 56 Rating, Add</i>  | 10,133.15                 |                         |
| 40 05 19 00-3527 EA 36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 37,847.92                 | 1,845.39                |
| <i>For Class 52 Rating, Deduct</i>   | -3,855.71                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,291.34                  |                         |
| <i>For Class 55 Rating, Add</i>  | 7,883.68                  |                         |
| <i>For Class 56 Rating, Add</i>  | 10,440.96                 |                         |
| 40 05 19 00-3528 EA 36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 38,895.83                 | 1,848.75                |
| <i>For Class 52 Rating, Deduct</i>   | -3,970.42                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,447.82                  |                         |
| <i>For Class 55 Rating, Add</i>  | 8,116.35                  |                         |
| <i>For Class 56 Rating, Add</i>  | 10,748.78                 |                         |
| 40 05 19 00-3529 EA 36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 39,943.75                 | 1,852.12                |
| <i>For Class 52 Rating, Deduct</i>   | -4,085.13                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,604.30                  |                         |
| <i>For Class 55 Rating, Add</i>  | 8,349.02                  |                         |
| <i>For Class 56 Rating, Add</i>  | 11,056.59                 |                         |
| 40 05 19 00-3530 EA 36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....   | 40,991.67                 | 1,855.49                |
| <i>For Class 52 Rating, Deduct</i>   | -4,199.84                 |                         |
| <i>For Class 54 Rating, Add</i>  | 5,760.79                  |                         |
| <i>For Class 55 Rating, Add</i>  | 8,581.69                  |                         |
| <i>For Class 56 Rating, Add</i>  | 11,364.41                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-3531 | EA  |     | 36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 42,039.60              | 1,858.85             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -4,314.55              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 5,917.27               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 8,814.36               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 11,672.22              |                      |
| 40 05 19 00-3532 | EA  |     | 36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 43,087.51              | 1,862.22             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -4,429.26              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 6,073.75               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 9,047.03               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 11,980.03              |                      |
| 40 05 19 00-3533 | EA  |     | 36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 44,135.43              | 1,865.59             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -4,543.97              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 6,230.24               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 9,279.70               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 12,287.85              |                      |
| 40 05 19 00-3534 | EA  |     | 36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 45,183.34              | 1,868.96             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -4,658.67              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 6,386.72               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 9,512.37               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 12,595.66              |                      |
| 40 05 19 00-3535 | EA  |     | 36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                    | 46,231.27              | 1,872.32             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -4,773.39              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 6,543.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 9,745.04               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 12,903.48              |                      |
| <br>             |     |     |  |                        |                      |
| 40 05 19 00-3536 |     |     | <b>42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small> |                        |                      |
| 40 05 19 00-3537 | EA  |     | 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 14,000.14              | 2,215.81             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,170.71              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,636.71               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,453.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,260.50               |                      |
| 40 05 19 00-3538 | EA  |     | 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 15,543.90              | 2,219.17             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,339.97              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 1,867.58               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 2,797.17               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 3,714.59               |                      |
| 40 05 19 00-3539 | EA  |     | 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 17,074.89              | 2,222.53             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,507.81              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,096.52               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,137.57               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,164.91               |                      |
| 40 05 19 00-3540 | EA  |     | 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 18,621.21              | 2,225.91             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,677.35              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,327.76               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,481.38               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 4,619.76               |                      |
| 40 05 19 00-3541 | EA  |     | 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 20,157.30              | 2,229.28             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -1,845.76              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,557.47               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 3,822.92               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,071.58               |                      |
| 40 05 19 00-3542 | EA  |     | 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 21,708.75              | 2,232.64             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,015.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 2,789.49               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,167.87               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,527.94               |                      |
| 40 05 19 00-3543 | EA  |     | 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 23,244.84              | 2,236.01             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,184.26              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,019.20               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,509.41               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 5,979.76               |                      |
| 40 05 19 00-3544 | EA  |     | 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....                     | 24,798.83              | 2,239.38             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>   | -2,354.64              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>  | 3,251.59               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>  | 4,854.93               |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>  | 6,436.87               |                      |



|                  | MINOR | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-3545 | EA    |     |     | 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 26,337.48              | 2,242.75             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -2,523.33              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 3,481.68               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 5,197.04               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 6,889.45               |                      |
| 40 05 19 00-3546 | EA    |     |     | 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 27,894.03              | 2,246.11             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -2,693.99              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 3,714.46               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 5,543.13               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 7,347.31               |                      |
| 40 05 19 00-3547 | EA    |     |     | 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 29,432.69              | 2,249.48             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -2,862.68              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 3,944.56               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 5,885.24               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 7,799.89               |                      |
| 40 05 19 00-3548 | EA    |     |     | 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 30,989.23              | 2,252.85             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -3,033.34              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 4,177.33               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 6,231.33               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 8,257.75               |                      |
| 40 05 19 00-3549 | EA    |     |     | 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 32,530.44              | 2,256.21             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -3,202.31              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 4,407.81               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 6,574.00               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 8,711.09               |                      |
| 40 05 19 00-3550 | EA    |     |     | 42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 34,074.20              | 2,259.58             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -3,371.56              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 4,638.67               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 6,917.25               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 9,165.17               |                      |
| 40 05 19 00-3551 | EA    |     |     | 42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 35,628.20              | 2,262.95             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -3,541.94              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 4,871.07               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 7,262.77               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 9,622.28               |                      |
| 40 05 19 00-3552 | EA    |     |     | 42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 37,169.41              | 2,266.33             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -3,710.91              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 5,101.54               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 7,605.45               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 10,075.62              |                      |
| 40 05 19 00-3553 | EA    |     |     | 42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 38,728.51              | 2,269.68             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -3,881.85              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 5,334.71               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 7,952.11               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 10,534.23              |                      |
| 40 05 19 00-3554 | EA    |     |     | 42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal  |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 40,272.27              | 2,273.05             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -4,051.11              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 5,565.57               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 8,295.36               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 10,988.32              |                      |
| 40 05 19 00-3555 | EA    |     |     | 42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 41,828.81              | 2,276.42             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -4,221.77              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 5,798.34               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 8,641.45               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 11,446.18              |                      |
| 40 05 19 00-3556 | EA    |     |     | 42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 43,372.59              | 2,279.78             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -4,391.02              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 6,029.20               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 8,984.70               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 11,900.27              |                      |
| 40 05 19 00-3557 | EA    |     |     | 42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 44,931.69              | 2,283.15             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -4,561.96              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 6,262.37               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 9,331.36               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 12,358.88              |                      |
| 40 05 19 00-3558 | EA    |     |     | 42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                        |                      |
|                  |       |     |     | Coat, Ductile Iron Pipe.....   | 46,475.45              | 2,286.53             |
|                  |       |     |     | For Class 52 Rating, Deduct  | -4,731.21              |                      |
|                  |       |     |     | For Class 54 Rating, Add   | 6,493.23               |                      |
|                  |       |     |     | For Class 55 Rating, Add   | 9,674.60               |                      |
|                  |       |     |     | For Class 56 Rating, Add   | 12,812.97              |                      |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-3559 | EA  |     | 42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 48,034.55              | 2,289.89             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -4,902.15              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,726.39               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,021.27              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 13,271.58              |                      |
| 40 05 19 00-3560 | EA  |     | 42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 49,575.76              | 2,293.25             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,071.12              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 6,956.87               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,363.94              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 13,724.92              |                      |
| 40 05 19 00-3561 | EA  |     | 42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 51,137.42              | 2,296.62             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,242.34              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 7,190.41               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 10,711.18              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 14,184.29              |                      |
| 40 05 19 00-3562 | EA  |     | 42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 52,681.19              | 2,300.00             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,411.60              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 7,421.27               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 11,054.42              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 14,638.38              |                      |
| 40 05 19 00-3563 | EA  |     | 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 54,237.73              | 2,303.35             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,582.26              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 7,654.05               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 11,400.52              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 15,096.24              |                      |
| 40 05 19 00-3564 | EA  |     | 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 55,784.05              | 2,306.73             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,751.79              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 7,885.29               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 11,744.33              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 15,551.08              |                      |
| 40 05 19 00-3565 | EA  |     | 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 57,026.23              | 2,310.09             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -5,887.87              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 8,070.91               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 12,020.32              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 15,916.20              |                      |
| 40 05 19 00-3566 | EA  |     | 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 58,886.92              | 2,313.47             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -6,091.98              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 8,349.31               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 12,434.24              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 16,463.78              |                      |
| 40 05 19 00-3567 | EA  |     | 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 60,428.13              | 2,316.82             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -6,260.96              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 8,579.79               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 12,776.91              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 16,917.12              |                      |
| 40 05 19 00-3568 | EA  |     | 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 61,987.23              | 2,320.20             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -6,431.90              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 8,812.95               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 13,123.58              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 17,375.73              |                      |
| 40 05 19 00-3569 | EA  |     | 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 63,531.00              | 2,323.56             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -6,601.15              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 9,043.81               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 13,466.82              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 17,829.82              |                      |
| 40 05 19 00-3570 | EA  |     | 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 65,092.66              | 2,326.94             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -6,772.37              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 9,277.36               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 13,814.06              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 18,289.19              |                      |
| 40 05 19 00-3571 | EA  |     | 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 66,633.87              | 2,330.29             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i>  | -6,941.34              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i>   | 9,507.84               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i>   | 14,156.73              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i>   | 18,742.52              |                      |

40 05 19 00-3572 48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3068)



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|--|
| <b>Process Interconnections</b> <b>40</b>                            |
| <b>Common Work Results For Process Interconnections</b> <b>40 05</b> |
| <b>Ductile Iron Process Pipe</b> <b>40 05 19</b>                     |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3573 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 18,059.87                 | 2,784.90                |
| <i>For Class 52 Rating, Deduct</i>  | -1,522.43                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,126.68                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,187.66                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,234.80                  |                         |
| 40 05 19 00-3574 EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 20,278.39                 | 2,788.28                |
| <i>For Class 52 Rating, Deduct</i>  | -1,765.91                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,458.76                  |                         |
| <i>For Class 55 Rating, Add</i>   | 3,681.37                  |                         |
| <i>For Class 56 Rating, Add</i>   | 4,887.94                  |                         |
| 40 05 19 00-3575 EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 22,504.59                 | 2,791.65                |
| <i>For Class 52 Rating, Deduct</i>  | -2,010.23                 |                         |
| <i>For Class 54 Rating, Add</i>   | 2,791.98                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,176.80                  |                         |
| <i>For Class 56 Rating, Add</i>   | 5,543.35                  |                         |
| 40 05 19 00-3576 EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 24,753.80                 | 2,795.02                |
| <i>For Class 52 Rating, Deduct</i>  | -2,257.08                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,128.66                  |                         |
| <i>For Class 55 Rating, Add</i>   | 4,677.36                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,205.54                  |                         |
| 40 05 19 00-3577 EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 26,997.88                 | 2,798.37                |
| <i>For Class 52 Rating, Deduct</i>  | -2,503.37                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,464.57                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,176.77                  |                         |
| <i>For Class 56 Rating, Add</i>   | 6,866.22                  |                         |
| 40 05 19 00-3578 EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 29,244.52                 | 2,801.75                |
| <i>For Class 52 Rating, Deduct</i>  | -2,749.94                 |                         |
| <i>For Class 54 Rating, Add</i>   | 3,800.86                  |                         |
| <i>For Class 55 Rating, Add</i>   | 5,676.76                  |                         |
| <i>For Class 56 Rating, Add</i>   | 7,527.66                  |                         |
| 40 05 19 00-3579 EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 31,506.50                 | 2,805.12                |
| <i>For Class 52 Rating, Deduct</i>  | -2,998.20                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,139.45                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,180.17                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,193.62                  |                         |
| 40 05 19 00-3580 EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 33,763.37                 | 2,808.48                |
| <i>For Class 52 Rating, Deduct</i>  | -3,245.89                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,477.28                  |                         |
| <i>For Class 55 Rating, Add</i>   | 6,682.43                  |                         |
| <i>For Class 56 Rating, Add</i>   | 8,858.08                  |                         |
| 40 05 19 00-3581 EA 48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 36,015.13                 | 2,811.85                |
| <i>For Class 52 Rating, Deduct</i>  | -3,493.02                 |                         |
| <i>For Class 54 Rating, Add</i>   | 4,814.34                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,183.56                  |                         |
| <i>For Class 56 Rating, Add</i>   | 9,521.02                  |                         |
| 40 05 19 00-3582 EA 48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 38,287.33                 | 2,815.22                |
| <i>For Class 52 Rating, Deduct</i>  | -3,742.40                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,154.46                  |                         |
| <i>For Class 55 Rating, Add</i>   | 7,689.24                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,190.00                 |                         |
| 40 05 19 00-3583 EA 48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 40,549.31                 | 2,818.59                |
| <i>For Class 52 Rating, Deduct</i>  | -3,990.66                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,493.06                  |                         |
| <i>For Class 55 Rating, Add</i>   | 8,192.65                  |                         |
| <i>For Class 56 Rating, Add</i>   | 10,855.97                 |                         |
| 40 05 19 00-3584 EA 48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 42,824.07                 | 2,821.95                |
| <i>For Class 52 Rating, Deduct</i>  | -4,240.32                 |                         |
| <i>For Class 54 Rating, Add</i>   | 5,833.57                  |                         |
| <i>For Class 55 Rating, Add</i>   | 8,698.91                  |                         |
| <i>For Class 56 Rating, Add</i>   | 11,525.70                 |                         |
| 40 05 19 00-3585 EA 48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 45,083.49                 | 2,825.32                |
| <i>For Class 52 Rating, Deduct</i>  | -4,488.30                 |                         |
| <i>For Class 54 Rating, Add</i>   | 6,171.78                  |                         |
| <i>For Class 55 Rating, Add</i>   | 9,201.74                  |                         |
| <i>For Class 56 Rating, Add</i>   | 12,190.91                 |                         |
| 40 05 19 00-3586 EA 48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal |                           |                         |
| Coat, Ductile Iron Pipe.....  | 47,348.03                 | 2,828.69                |
| <i>For Class 52 Rating, Deduct</i>  | -4,736.84                 |                         |
| <i>For Class 54 Rating, Add</i>   | 6,510.75                  |                         |
| <i>For Class 55 Rating, Add</i>   | 9,705.72                  |                         |
| <i>For Class 56 Rating, Add</i>   | 12,857.62                 |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-3587 | EA  |     | 48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 49,625.34              | 2,832.06             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -4,986.78              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 6,851.64               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,212.54              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 13,528.11              |                      |
| 40 05 19 00-3588 | EA  |     | 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 51,889.88              | 2,835.42             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,235.32              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,190.62               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 10,716.52              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 14,194.83              |                      |
| 40 05 19 00-3589 | EA  |     | 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 54,154.41              | 2,838.79             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,483.85              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,529.60               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,220.50              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 14,861.54              |                      |
| 40 05 19 00-3590 | EA  |     | 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....  | 56,434.29              | 2,842.17             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,734.08              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 7,870.87               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 11,727.89              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 15,532.78              |                      |
| 40 05 19 00-3591 | EA  |     | 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 58,701.38              | 2,845.52             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -5,982.90              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,210.23               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,232.44              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 16,200.25              |                      |
| 40 05 19 00-3592 | EA  |     | 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 60,965.91              | 2,848.89             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,231.44              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,549.21               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 12,736.41              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 16,866.97              |                      |
| 40 05 19 00-3593 | EA  |     | 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 63,250.89              | 2,852.26             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,482.22              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 8,891.25               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,244.95              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 17,539.72              |                      |
| 40 05 19 00-3594 | EA  |     | 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 65,520.54              | 2,855.64             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,731.32              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,231.00               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 13,750.07              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 18,207.94              |                      |
| 40 05 19 00-3595 | EA  |     | 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 67,787.64              | 2,858.99             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -6,980.14              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,570.36               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,254.61              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 18,875.42              |                      |
| 40 05 19 00-3596 | EA  |     | 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 70,070.06              | 2,862.37             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,230.65              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 9,912.02               |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 14,762.58              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 19,547.41              |                      |
| 40 05 19 00-3597 | EA  |     | 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 72,339.71              | 2,865.73             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,479.75              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,251.76              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 15,267.70              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 20,215.63              |                      |
| 40 05 19 00-3598 | EA  |     | 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 74,606.79              | 2,869.09             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,728.56              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,591.12              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 15,772.24              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 20,883.10              |                      |
| 40 05 19 00-3599 | EA  |     | 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 76,891.78              | 2,872.46             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -7,979.35              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 10,933.16              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 16,280.78              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 21,555.85              |                      |
| 40 05 19 00-3600 | EA  |     | 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 79,161.44              | 2,875.84             |
|                  |     |     | <i>For Class 52 Rating, Deduct</i> .....  | -8,228.45              |                      |
|                  |     |     | <i>For Class 54 Rating, Add</i> .....   | 11,272.90              |                      |
|                  |     |     | <i>For Class 55 Rating, Add</i> .....   | 16,785.89              |                      |
|                  |     |     | <i>For Class 56 Rating, Add</i> .....   | 22,224.08              |                      |



| MINOR            | CSI | UOM | DESCRIPTION   | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|---|------------------------|----------------------|
| 40 05 19 00-3601 | EA  |     | 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 81,162.71              | 2,879.20             |
|                  |     |     | For Class 52 Rating, Deduct   | -8,448.03              |                      |
|                  |     |     | For Class 54 Rating, Add  | 11,572.39              |                      |
|                  |     |     | For Class 55 Rating, Add  | 17,231.16              |                      |
|                  |     |     | For Class 56 Rating, Add  | 22,813.13              |                      |
| 40 05 19 00-3602 | EA  |     | 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 83,718.62              | 2,882.57             |
|                  |     |     | For Class 52 Rating, Deduct   | -8,728.62              |                      |
|                  |     |     | For Class 54 Rating, Add  | 11,955.07              |                      |
|                  |     |     | For Class 55 Rating, Add  | 17,800.11              |                      |
|                  |     |     | For Class 56 Rating, Add  | 23,565.80              |                      |
| 40 05 19 00-3603 | EA  |     | 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 85,985.71              | 2,885.93             |
|                  |     |     | For Class 52 Rating, Deduct   | -8,977.44              |                      |
|                  |     |     | For Class 54 Rating, Add  | 12,294.43              |                      |
|                  |     |     | For Class 55 Rating, Add  | 18,304.66              |                      |
|                  |     |     | For Class 56 Rating, Add  | 24,233.27              |                      |
| 40 05 19 00-3604 | EA  |     | 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 88,275.81              | 2,889.31             |
|                  |     |     | For Class 52 Rating, Deduct   | -9,228.79              |                      |
|                  |     |     | For Class 54 Rating, Add  | 12,637.24              |                      |
|                  |     |     | For Class 55 Rating, Add  | 18,814.34              |                      |
|                  |     |     | For Class 56 Rating, Add  | 24,907.53              |                      |
| 40 05 19 00-3605 | EA  |     | 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 90,542.90              | 2,892.66             |
|                  |     |     | For Class 52 Rating, Deduct   | -9,477.61              |                      |
|                  |     |     | For Class 54 Rating, Add  | 12,976.60              |                      |
|                  |     |     | For Class 55 Rating, Add  | 19,318.88              |                      |
|                  |     |     | For Class 56 Rating, Add  | 25,575.00              |                      |
| 40 05 19 00-3606 | EA  |     | 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 92,809.99              | 2,896.04             |
|                  |     |     | For Class 52 Rating, Deduct   | -9,726.43              |                      |
|                  |     |     | For Class 54 Rating, Add  | 13,315.96              |                      |
|                  |     |     | For Class 55 Rating, Add  | 19,823.43              |                      |
|                  |     |     | For Class 56 Rating, Add  | 26,242.47              |                      |
| 40 05 19 00-3607 | EA  |     | 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe..... | 95,100.08              | 2,899.40             |
|                  |     |     | For Class 52 Rating, Deduct   | -9,977.77              |                      |
|                  |     |     | For Class 54 Rating, Add  | 13,658.77              |                      |
|                  |     |     | For Class 55 Rating, Add  | 20,333.10              |                      |
|                  |     |     | For Class 56 Rating, Add  | 26,916.73              |                      |

**40 05 19 00-3608 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows** (40 05 19 00-2059)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-3609 | EA | 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow  | 845.78    | 162.47   |
| 40 05 19 00-3610 | EA | 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow  | 1,233.53  | 207.76   |
| 40 05 19 00-3611 | EA | 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow  | 1,750.63  | 235.33   |
| 40 05 19 00-3612 | EA | 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 2,494.43  | 298.34   |
| 40 05 19 00-3613 | EA | 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 3,101.29  | 330.84   |
| 40 05 19 00-3614 | EA | 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 3,796.25  | 359.39   |
| 40 05 19 00-3615 | EA | 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 4,662.08  | 443.09   |
| 40 05 19 00-3616 | EA | 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 5,844.42  | 531.71   |
| 40 05 19 00-3617 | EA | 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 7,146.70  | 669.56   |
| 40 05 19 00-3618 | EA | 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 10,594.82 | 758.17   |
| 40 05 19 00-3619 | EA | 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 16,414.73 | 1,004.34 |
| 40 05 19 00-3620 | EA | 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 24,285.20 | 1,137.26 |
| 40 05 19 00-3621 | EA | 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 41,344.15 | 1,299.73 |
| 40 05 19 00-3622 | EA | 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow | 54,674.24 | 1,595.12 |

**40 05 19 00-3623 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows** (40 05 19 00-2059)

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-3624 | EA | 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow  | 807.15    | 162.47   |
| 40 05 19 00-3625 | EA | 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow  | 1,169.71  | 207.76   |
| 40 05 19 00-3626 | EA | 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow  | 1,592.75  | 235.33   |
| 40 05 19 00-3627 | EA | 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 2,269.37  | 298.34   |
| 40 05 19 00-3628 | EA | 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 2,810.72  | 330.84   |
| 40 05 19 00-3629 | EA | 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 3,270.53  | 359.39   |
| 40 05 19 00-3630 | EA | 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 4,020.47  | 443.09   |
| 40 05 19 00-3631 | EA | 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 5,112.11  | 531.71   |
| 40 05 19 00-3632 | EA | 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 6,429.51  | 669.56   |
| 40 05 19 00-3633 | EA | 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 8,423.10  | 758.17   |
| 40 05 19 00-3634 | EA | 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 16,030.10 | 1,004.34 |
| 40 05 19 00-3635 | EA | 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 23,771.24 | 1,137.26 |
| 40 05 19 00-3636 | EA | 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 35,872.02 | 1,299.73 |
| 40 05 19 00-3637 | EA | 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow | 48,481.56 | 1,595.12 |

**40 05 19 00-3638 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows** (40 05 19 00-2059)

|                  |    |  |        |        |
|------------------|----|--|--------|--------|
| 40 05 19 00-3639 | EA | 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow | 805.47 | 162.47 |
|------------------|----|--|--------|--------|

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3640 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....             | 1,147.87                  | 207.76                  |
| 40 05 19 00-3641 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....             | 1,579.31                  | 235.33                  |
| 40 05 19 00-3642 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 2,217.30                  | 298.34                  |
| 40 05 19 00-3643 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 2,926.61                  | 330.84                  |
| 40 05 19 00-3644 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 3,624.93                  | 359.39                  |
| 40 05 19 00-3645 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 4,101.09                  | 443.09                  |
| 40 05 19 00-3646 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 5,209.53                  | 531.71                  |
| 40 05 19 00-3647 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 6,847.73                  | 669.56                  |
| 40 05 19 00-3648 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 9,388.87                  | 758.17                  |
| 40 05 19 00-3649 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 16,201.42                 | 1,004.34                |
| 40 05 19 00-3650 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 24,162.59                 | 1,137.26                |
| 40 05 19 00-3651 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 36,653.03                 | 1,299.73                |
| 40 05 19 00-3652 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....            | 49,502.76                 | 1,595.12                |
| <br>   |                           |                         |
| <b>40 05 19 00-3653 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>                                      |                           |                         |
| <b>11-1/4 Degree Elbows <small>(40 05 19 00-2059)</small></b>  |                           |                         |
| 40 05 19 00-3654 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....             | 870.97                    | 162.47                  |
| 40 05 19 00-3655 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....             | 1,270.48                  | 207.76                  |
| 40 05 19 00-3656 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....             | 1,629.70                  | 235.33                  |
| 40 05 19 00-3657 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 2,397.02                  | 298.34                  |
| 40 05 19 00-3658 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 3,260.85                  | 330.84                  |
| 40 05 19 00-3659 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 3,710.59                  | 359.39                  |
| 40 05 19 00-3660 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 4,462.21                  | 443.09                  |
| 40 05 19 00-3661 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 5,209.53                  | 531.71                  |
| 40 05 19 00-3662 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 6,847.73                  | 669.56                  |
| 40 05 19 00-3663 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 9,731.51                  | 758.17                  |
| 40 05 19 00-3664 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 16,369.38                 | 1,004.34                |
| 40 05 19 00-3665 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 24,333.91                 | 1,137.26                |
| 40 05 19 00-3666 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 36,832.75                 | 1,299.73                |
| 40 05 19 00-3667 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....            | 49,865.55                 | 1,595.12                |
| <br>   |                           |                         |
| <b>40 05 19 00-3668 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>                                      |                           |                         |
| <b>Reducing 90 Degree Elbows <small>(40 05 19 00-2059)</small></b>   |                           |                         |
| 40 05 19 00-3669 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....   | 1,197.53                  | 185.12                  |
| 40 05 19 00-3670 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....   | 1,537.55                  | 198.90                  |
| 40 05 19 00-3671 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....   | 1,670.95                  | 221.55                  |
| 40 05 19 00-3672 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 2,282.32                  | 230.41                  |
| 40 05 19 00-3673 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 2,328.40                  | 253.05                  |
| 40 05 19 00-3674 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 2,498.76                  | 266.84                  |
| 40 05 19 00-3675 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 2,724.95                  | 269.80                  |
| 40 05 19 00-3676 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 3,039.77                  | 283.58                  |
| 40 05 19 00-3677 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 3,186.59                  | 315.09                  |
| 40 05 19 00-3678 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 3,167.42                  | 283.58                  |
| 40 05 19 00-3679 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 3,433.52                  | 297.36                  |
| 40 05 19 00-3680 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 3,723.12                  | 328.87                  |
| 40 05 19 00-3681 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 4,044.09                  | 345.61                  |
| 40 05 19 00-3682 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 3,645.68                  | 325.43                  |
| 40 05 19 00-3683 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 3,863.07                  | 339.21                  |
| 40 05 19 00-3684 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 4,300.49                  | 370.72                  |
| 40 05 19 00-3685 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 4,622.39                  | 386.96                  |
| 40 05 19 00-3686 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 4,885.89                  | 401.24                  |
| 40 05 19 00-3687 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 4,231.81                  | 369.73                  |
| 40 05 19 00-3688 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 4,890.94                  | 383.52                  |
| 40 05 19 00-3689 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 4,984.03                  | 415.03                  |
| 40 05 19 00-3690 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 5,205.17                  | 431.27                  |
| 40 05 19 00-3691 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 5,569.43                  | 445.55                  |
| 40 05 19 00-3692 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 5,972.11                  | 487.40                  |
| 40 05 19 00-3693 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 5,286.89                  | 438.66                  |
| 40 05 19 00-3694 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 5,573.16                  | 452.44                  |
| 40 05 19 00-3695 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 6,674.01                  | 483.96                  |
| 40 05 19 00-3696 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 6,876.66                  | 500.20                  |
| 40 05 19 00-3697 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 7,487.83                  | 514.48                  |
| 40 05 19 00-3698 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 7,309.38                  | 556.32                  |
| 40 05 19 00-3699 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 7,690.60                  | 600.63                  |
| 40 05 19 00-3700 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 7,290.61                  | 482.97                  |
| 40 05 19 00-3701 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....  | 7,571.83                  | 496.75                  |
| 40 05 19 00-3702 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 8,042.84                  | 528.26                  |
| 40 05 19 00-3703 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 8,383.22                  | 544.51                  |
| 40 05 19 00-3704 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 9,036.38                  | 558.78                  |
| 40 05 19 00-3705 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 9,627.17                  | 600.63                  |
| 40 05 19 00-3706 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 9,798.44                  | 644.94                  |
| 40 05 19 00-3707 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 10,259.60                 | 637.81                  |
| 40 05 19 00-3708 EA 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 12,362.24                 | 667.59                  |
| 40 05 19 00-3709 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 13,062.43                 | 681.86                  |
| 40 05 19 00-3710 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 14,780.23                 | 723.71                  |
| 40 05 19 00-3711 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 16,632.79                 | 768.03                  |
| 40 05 19 00-3712 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 22,229.51                 | 836.95                  |
| 40 05 19 00-3713 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 23,754.54                 | 881.25                  |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 19 00-3714 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 21,497.13                 | 903.41                  |
| 40 05 19 00-3715 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 23,479.01                 | 947.72                  |
| 40 05 19 00-3716 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 24,626.23                 | 1,070.80                |
| 40 05 19 00-3717 EA 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 31,813.70                 | 984.65                  |
| 40 05 19 00-3718 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 32,587.95                 | 1,028.95                |
| 40 05 19 00-3719 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 32,579.60                 | 1,152.04                |
| 40 05 19 00-3720 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 46,421.11                 | 1,218.50                |
| 40 05 19 00-3721 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 44,406.18                 | 1,188.96                |
| 40 05 19 00-3722 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 48,274.36                 | 1,312.04                |
| 40 05 19 00-3723 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 49,659.95                 | 1,378.50                |
| 40 05 19 00-3724 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow ..... | 61,563.75                 | 1,459.74                |
| <b>40 05 19 00-3725 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>                                      |                           |                         |
| <b>Long Radius 90 Degree Elbows (40 05 19 00-2059)</b>   |                           |                         |
| 40 05 19 00-3726 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....     | 988.54                    | 162.47                  |
| 40 05 19 00-3727 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....     | 1,545.94                  | 207.76                  |
| 40 05 19 00-3728 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....     | 2,281.38                  | 235.33                  |
| 40 05 19 00-3729 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 3,179.71                  | 298.34                  |
| 40 05 19 00-3730 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 4,431.53                  | 330.84                  |
| 40 05 19 00-3731 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 5,190.31                  | 359.39                  |
| 40 05 19 00-3732 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 6,612.10                  | 443.09                  |
| 40 05 19 00-3733 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 8,091.72                  | 531.71                  |
| 40 05 19 00-3734 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 10,796.47                 | 669.56                  |
| 40 05 19 00-3735 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 15,704.16                 | 758.17                  |
| 40 05 19 00-3736 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 27,138.98                 | 1,004.34                |
| 40 05 19 00-3737 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 41,019.05                 | 1,137.26                |
| 40 05 19 00-3738 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....    | 63,111.77                 | 1,299.73                |
| <b>40 05 19 00-3739 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>                                      |                           |                         |
| <b>90 Degree Elbows With Base (40 05 19 00-2059)</b>   |                           |                         |
| 40 05 19 00-3740 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....       | 1,035.57                  | 162.47                  |
| 40 05 19 00-3741 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....       | 1,453.56                  | 207.76                  |
| 40 05 19 00-3742 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....       | 2,343.53                  | 235.33                  |
| 40 05 19 00-3743 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 3,132.68                  | 298.34                  |
| 40 05 19 00-3744 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 4,174.56                  | 330.84                  |
| 40 05 19 00-3745 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 4,943.41                  | 359.39                  |
| 40 05 19 00-3746 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 6,025.91                  | 443.09                  |
| 40 05 19 00-3747 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 7,460.20                  | 531.71                  |
| 40 05 19 00-3748 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 9,635.87                  | 669.56                  |
| 40 05 19 00-3749 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 13,493.81                 | 758.17                  |
| 40 05 19 00-3750 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 21,725.63                 | 1,004.34                |
| 40 05 19 00-3751 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 30,872.59                 | 1,137.26                |
| 40 05 19 00-3752 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 54,221.65                 | 1,299.73                |
| 40 05 19 00-3753 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....      | 60,866.93                 | 1,595.12                |
| <b>40 05 19 00-3754 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>                                      |                           |                         |
| <b>Tees (40 05 19 00-2059)</b>   |                           |                         |
| 40 05 19 00-3755 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                             | 1,283.86                  | 260.93                  |
| 40 05 19 00-3756 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                             | 1,658.71                  | 321.00                  |
| 40 05 19 00-3757 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                             | 2,377.17                  | 358.41                  |
| 40 05 19 00-3758 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 3,354.39                  | 465.74                  |
| 40 05 19 00-3759 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 4,464.94                  | 508.08                  |
| 40 05 19 00-3760 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 5,959.18                  | 546.48                  |
| 40 05 19 00-3761 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 6,459.35                  | 689.25                  |
| 40 05 19 00-3762 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 8,009.33                  | 787.72                  |
| 40 05 19 00-3763 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 10,076.12                 | 994.49                  |
| 40 05 19 00-3764 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 14,779.45                 | 1,097.88                |
| 40 05 19 00-3765 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 24,238.11                 | 1,516.36                |
| 40 05 19 00-3766 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 34,192.86                 | 1,737.90                |
| 40 05 19 00-3767 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....                            | 72,785.48                 | 2,008.67                |
| <b>40 05 19 00-3768 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>                                      |                           |                         |
| <b>Reducing Tees (40 05 19 00-2059)</b>  |                           |                         |
| 40 05 19 00-3769 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....               | 1,699.62                  | 291.46                  |
| 40 05 19 00-3770 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....               | 2,188.94                  | 297.36                  |
| 40 05 19 00-3771 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....               | 2,161.65                  | 334.78                  |
| 40 05 19 00-3772 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 2,903.48                  | 328.87                  |
| 40 05 19 00-3773 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 2,837.56                  | 366.29                  |
| 40 05 19 00-3774 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 2,959.02                  | 389.92                  |
| 40 05 19 00-3775 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 3,693.06                  | 345.61                  |
| 40 05 19 00-3776 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 3,655.70                  | 383.02                  |
| 40 05 19 00-3777 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 3,815.79                  | 406.65                  |
| 40 05 19 00-3778 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....             | 4,402.63                  | 482.47                  |
| 40 05 19 00-3779 EA 14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 5,264.22                  | 359.39                  |
| 40 05 19 00-3780 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....              | 5,146.23                  | 396.81                  |

**40 Process Interconnections**

**40 05 Common Work Results For Process Interconnections**

**40 05 19 Ductile Iron Process Pipe**



| MINOR CSI UOM DESCRIPTION | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---------------------------|------------------------|----------------------|
|---------------------------|------------------------|----------------------|

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 40 05 19 00-3781 | EA | 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 5,329.83  | 420.44   |
| 40 05 19 00-3782 | EA | 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 5,542.13  | 496.26   |
| 40 05 19 00-3783 | EA | 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 5,826.89  | 522.35   |
| 40 05 19 00-3784 | EA | 16" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 6,347.14  | 401.24   |
| 40 05 19 00-3785 | EA | 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 5,357.43  | 438.66   |
| 40 05 19 00-3786 | EA | 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 5,482.26  | 462.29   |
| 40 05 19 00-3787 | EA | 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 6,614.98  | 538.11   |
| 40 05 19 00-3788 | EA | 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 5,935.64  | 564.20   |
| 40 05 19 00-3789 | EA | 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 7,075.69  | 588.33   |
| 40 05 19 00-3790 | EA | 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 5,982.20  | 482.97   |
| 40 05 19 00-3791 | EA | 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 7,034.17  | 506.60   |
| 40 05 19 00-3792 | EA | 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 6,999.55  | 582.41   |
| 40 05 19 00-3793 | EA | 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 6,624.22  | 608.51   |
| 40 05 19 00-3794 | EA | 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 8,147.22  | 632.63   |
| 40 05 19 00-3795 | EA | 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 8,594.07  | 733.56   |
| 40 05 19 00-3796 | EA | 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 8,511.97  | 551.89   |
| 40 05 19 00-3797 | EA | 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 8,651.91  | 575.53   |
| 40 05 19 00-3798 | EA | 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 8,926.35  | 651.35   |
| 40 05 19 00-3799 | EA | 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 9,229.59  | 677.44   |
| 40 05 19 00-3800 | EA | 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 9,318.20  | 701.56   |
| 40 05 19 00-3801 | EA | 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 10,997.87 | 802.49   |
| 40 05 19 00-3802 | EA | 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 11,184.07 | 856.64   |
| 40 05 19 00-3803 | EA | 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 9,828.72  | 596.20   |
| 40 05 19 00-3804 | EA | 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 10,210.54 | 619.83   |
| 40 05 19 00-3805 | EA | 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 10,518.57 | 695.65   |
| 40 05 19 00-3806 | EA | 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 11,649.84 | 721.74   |
| 40 05 19 00-3807 | EA | 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 11,896.34 | 745.87   |
| 40 05 19 00-3808 | EA | 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 12,188.66 | 846.79   |
| 40 05 19 00-3809 | EA | 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 15,708.86 | 900.95   |
| 40 05 19 00-3810 | EA | 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 16,175.36 | 962.74   |
| 40 05 19 00-3811 | EA | 30" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 19,378.98 | 719.28   |
| 40 05 19 00-3812 | EA | 30" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 19,470.22 | 742.91   |
| 40 05 19 00-3813 | EA | 30" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 19,924.37 | 818.73   |
| 40 05 19 00-3814 | EA | 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 19,963.91 | 844.82   |
| 40 05 19 00-3815 | EA | 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 20,000.46 | 868.95   |
| 40 05 19 00-3816 | EA | 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 20,153.37 | 969.88   |
| 40 05 19 00-3817 | EA | 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 20,794.74 | 1,024.03 |
| 40 05 19 00-3818 | EA | 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 21,821.57 | 1,161.88 |
| 40 05 19 00-3819 | EA | 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 26,563.57 | 1,220.96 |
| 40 05 19 00-3820 | EA | 36" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 27,835.43 | 1,029.44 |
| 40 05 19 00-3821 | EA | 36" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee  | 28,088.84 | 1,048.15 |
| 40 05 19 00-3822 | EA | 36" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 28,225.58 | 1,101.82 |
| 40 05 19 00-3823 | EA | 36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 28,427.30 | 1,122.99 |
| 40 05 19 00-3824 | EA | 36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 28,513.49 | 1,142.19 |
| 40 05 19 00-3825 | EA | 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 28,732.51 | 1,213.57 |
| 40 05 19 00-3826 | EA | 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 28,865.89 | 1,262.80 |
| 40 05 19 00-3827 | EA | 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 29,245.93 | 1,366.20 |
| 40 05 19 00-3828 | EA | 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 29,834.85 | 1,417.89 |
| 40 05 19 00-3829 | EA | 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 38,546.52 | 1,627.12 |
| 40 05 19 00-3830 | EA | 42" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 42,200.53 | 992.52   |
| 40 05 19 00-3831 | EA | 42" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 42,299.22 | 1,016.65 |
| 40 05 19 00-3832 | EA | 42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 42,569.72 | 1,117.57 |
| 40 05 19 00-3833 | EA | 42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 42,712.24 | 1,171.72 |
| 40 05 19 00-3834 | EA | 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 43,161.28 | 1,309.58 |
| 40 05 19 00-3835 | EA | 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 43,732.84 | 1,368.66 |
| 40 05 19 00-3836 | EA | 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 54,763.56 | 1,664.05 |
| 40 05 19 00-3837 | EA | 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 69,851.24 | 1,819.13 |
| 40 05 19 00-3838 | EA | 48" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 56,650.69 | 1,152.52 |
| 40 05 19 00-3839 | EA | 48" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 56,687.24 | 1,176.65 |
| 40 05 19 00-3840 | EA | 48" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 57,018.20 | 1,277.58 |
| 40 05 19 00-3841 | EA | 48" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 57,100.26 | 1,331.74 |
| 40 05 19 00-3842 | EA | 48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 57,549.30 | 1,469.58 |
| 40 05 19 00-3843 | EA | 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 58,062.07 | 1,528.66 |
| 40 05 19 00-3844 | EA | 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee | 59,351.12 | 1,824.06 |

**40 05 19 00-3845 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees With Base**

|                  |    |   |           |          |
|------------------|----|---|-----------|----------|
| 40 05 19 00-3846 | EA | 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base  | 1,381.28  | 260.93   |
| 40 05 19 00-3847 | EA | 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base  | 1,942.56  | 321.00   |
| 40 05 19 00-3848 | EA | 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base  | 2,857.54  | 358.41   |
| 40 05 19 00-3849 | EA | 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 4,264.73  | 465.74   |
| 40 05 19 00-3850 | EA | 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 5,728.00  | 508.08   |
| 40 05 19 00-3851 | EA | 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 6,451.30  | 546.48   |
| 40 05 19 00-3852 | EA | 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 7,910.52  | 689.25   |
| 40 05 19 00-3853 | EA | 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 9,552.88  | 787.72   |
| 40 05 19 00-3854 | EA | 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 12,550.17 | 994.49   |
| 40 05 19 00-3855 | EA | 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 18,007.64 | 1,097.88 |
| 40 05 19 00-3856 | EA | 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 29,774.08 | 1,516.36 |
| 40 05 19 00-3857 | EA | 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base | 42,322.13 | 1,737.90 |





**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 19 00-3932 EA 42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 43,939.92                 | 1,427.73                |
| 40 05 19 00-3933 EA 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 44,827.64                 | 1,634.51                |
| 40 05 19 00-3934 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 45,896.91                 | 1,708.36                |
| 40 05 19 00-3935 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 59,105.14                 | 2,176.06                |
| 40 05 19 00-3936 EA 42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 80,321.57                 | 2,419.77                |
| 40 05 19 00-3937 EA 48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 59,610.37                 | 1,794.51                |
| 40 05 19 00-3938 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 60,679.63                 | 1,868.36                |
| 40 05 19 00-3939 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross ..... | 63,111.55                 | 2,336.07                |

**40 05 19 00-3940 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-2059)**

|  |           |          |
|--|-----------|----------|
| 40 05 19 00-3941 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....   | 1,031.25  | 185.12   |
| 40 05 19 00-3942 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....   | 1,362.87  | 198.90   |
| 40 05 19 00-3943 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....   | 1,450.92  | 221.55   |
| 40 05 19 00-3944 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 1,810.35  | 230.41   |
| 40 05 19 00-3945 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 1,807.72  | 253.05   |
| 40 05 19 00-3946 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 2,026.79  | 266.84   |
| 40 05 19 00-3947 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 2,300.97  | 247.15   |
| 40 05 19 00-3948 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 2,340.32  | 269.80   |
| 40 05 19 00-3949 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 2,503.98  | 283.58   |
| 40 05 19 00-3950 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 2,723.03  | 315.09   |
| 40 05 19 00-3951 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 2,826.46  | 283.58   |
| 40 05 19 00-3952 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 3,043.85  | 297.36   |
| 40 05 19 00-3953 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 3,259.55  | 328.87   |
| 40 05 19 00-3954 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 3,170.70  | 345.61   |
| 40 05 19 00-3955 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 3,355.11  | 325.43   |
| 40 05 19 00-3956 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 3,204.67  | 339.21   |
| 40 05 19 00-3957 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 3,462.37  | 370.72   |
| 40 05 19 00-3958 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 3,869.93  | 386.96   |
| 40 05 19 00-3959 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 4,346.74  | 401.24   |
| 40 05 19 00-3960 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 4,057.86  | 383.52   |
| 40 05 19 00-3961 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 4,350.82  | 415.03   |
| 40 05 19 00-3962 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 4,313.30  | 431.27   |
| 40 05 19 00-3963 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 4,835.45  | 445.55   |
| 40 05 19 00-3964 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 4,796.39  | 487.40   |
| 40 05 19 00-3965 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....  | 4,941.63  | 452.44   |
| 40 05 19 00-3966 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 5,251.38  | 483.96   |
| 40 05 19 00-3967 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 5,131.56  | 500.20   |
| 40 05 19 00-3968 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 5,772.96  | 514.48   |
| 40 05 19 00-3969 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 5,445.02  | 556.32   |
| 40 05 19 00-3970 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 6,484.64  | 600.63   |
| 40 05 19 00-3971 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 7,132.49  | 528.26   |
| 40 05 19 00-3972 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 7,702.98  | 544.51   |
| 40 05 19 00-3973 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 7,865.70  | 558.78   |
| 40 05 19 00-3974 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 7,055.71  | 600.63   |
| 40 05 19 00-3975 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 8,271.68  | 644.94   |
| 40 05 19 00-3976 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 8,680.77  | 637.81   |
| 40 05 19 00-3977 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 11,772.07 | 723.71   |
| 40 05 19 00-3978 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 12,180.17 | 768.03   |
| 40 05 19 00-3979 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 12,961.48 | 836.95   |
| 40 05 19 00-3980 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 14,153.95 | 881.25   |
| 40 05 19 00-3981 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 16,629.40 | 790.17   |
| 40 05 19 00-3982 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 16,874.57 | 834.49   |
| 40 05 19 00-3983 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 17,922.94 | 903.41   |
| 40 05 19 00-3984 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 18,858.43 | 947.72   |
| 40 05 19 00-3985 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 21,416.52 | 1,070.80 |
| 40 05 19 00-3986 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 26,079.50 | 1,028.95 |
| 40 05 19 00-3987 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 29,153.21 | 1,152.04 |
| 40 05 19 00-3988 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 32,680.31 | 1,218.50 |
| 40 05 19 00-3989 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 34,508.30 | 1,188.96 |
| 40 05 19 00-3990 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 36,565.87 | 1,312.04 |
| 40 05 19 00-3991 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 40,574.99 | 1,378.50 |
| 40 05 19 00-3992 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer ..... | 45,149.01 | 1,459.74 |

**40 05 19 00-3993 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-2059)**

|   |          |        |
|---|----------|--------|
| 40 05 19 00-3994 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....   | 1,100.11 | 185.12 |
| 40 05 19 00-3995 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....   | 1,441.81 | 198.90 |
| 40 05 19 00-3996 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....   | 1,571.86 | 221.55 |
| 40 05 19 00-3997 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 1,810.35 | 230.41 |
| 40 05 19 00-3998 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 1,891.70 | 253.05 |
| 40 05 19 00-3999 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 2,107.41 | 266.84 |
| 40 05 19 00-4000 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 2,300.97 | 247.15 |
| 40 05 19 00-4001 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 2,434.38 | 269.80 |
| 40 05 19 00-4002 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 2,601.39 | 283.58 |
| 40 05 19 00-4003 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 2,892.66 | 315.09 |
| 40 05 19 00-4004 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 2,826.46 | 283.58 |
| 40 05 19 00-4005 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 2,993.46 | 297.36 |



| MINOR   | TOTAL DIRECT   | DEMOLITION         |
|---|--|--------------------|
| CSI UOM DESCRIPTION   | UNIT COST  | UNIT COST          |
| 40 05 19 00-4006  | EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 3,236.04 328.87    |
| 40 05 19 00-4007  | EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 3,604.04 345.61    |
| 40 05 19 00-4008  | EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 3,355.11 325.43    |
| 40 05 19 00-4009  | EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 3,569.14 339.21    |
| 40 05 19 00-4010  | EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 3,863.79 370.72    |
| 40 05 19 00-4011  | EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 4,180.65 386.96    |
| 40 05 19 00-4012  | EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 4,346.74 401.24    |
| 40 05 19 00-4013  | EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 4,057.86 383.52    |
| 40 05 19 00-4014  | EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 4,350.82 415.03    |
| 40 05 19 00-4015  | EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 4,666.01 431.27    |
| 40 05 19 00-4016  | EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 4,835.45 445.55    |
| 40 05 19 00-4017  | EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 5,191.10 487.40    |
| 40 05 19 00-4018  | EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 5,203.64 452.44    |
| 40 05 19 00-4019  | EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 5,436.14 483.96    |
| 40 05 19 00-4020  | EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 5,645.52 500.20    |
| 40 05 19 00-4021  | EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 5,772.96 514.48    |
| 40 05 19 00-4022  | EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 6,202.52 556.32    |
| 40 05 19 00-4023  | EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 6,479.60 600.63    |
| 40 05 19 00-4024  | EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....  | 7,316.53 496.75    |
| 40 05 19 00-4025  | EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 7,253.42 528.26    |
| 40 05 19 00-4026  | EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 7,383.86 544.51    |
| 40 05 19 00-4027  | EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 7,509.62 558.78    |
| 40 05 19 00-4028  | EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 7,940.86 600.63    |
| 40 05 19 00-4029  | EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 8,271.68 644.94    |
| 40 05 19 00-4030  | EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 8,680.77 637.81    |
| 40 05 19 00-4031  | EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 14,491.76 681.86   |
| 40 05 19 00-4032  | EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 13,522.21 723.71   |
| 40 05 19 00-4033  | EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 12,235.59 768.03   |
| 40 05 19 00-4034  | EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 12,961.48 836.95   |
| 40 05 19 00-4035  | EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 14,153.95 881.25   |
| 40 05 19 00-4036  | EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 15,648.52 790.17   |
| 40 05 19 00-4037  | EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 16,296.79 834.49   |
| 40 05 19 00-4038  | EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 17,246.06 903.41   |
| 40 05 19 00-4039  | EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 18,799.64 947.72   |
| 40 05 19 00-4040  | EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 21,713.81 1,070.80 |
| 40 05 19 00-4041  | EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 26,079.50 1,028.95 |
| 40 05 19 00-4042  | EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 29,153.21 1,152.04 |
| 40 05 19 00-4043  | EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 32,680.31 1,218.50 |
| 40 05 19 00-4044  | EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 36,565.87 1,312.04 |
| 40 05 19 00-4045  | EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 40,574.99 1,378.50 |
| 40 05 19 00-4046  | EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer ..... | 45,149.01 1,459.74 |
| <br><b>40 05 19 00-4047 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b> |  |                    |
| <b>Blind Flanges <small>(40 05 19 00-2059)</small></b>  |  |                    |
| 40 05 19 00-4048  | EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....              | 505.11 64.00       |
| 40 05 19 00-4049  | EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....              | 768.03 94.52       |
| 40 05 19 00-4050  | EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....              | 1,023.31 112.25    |
| 40 05 19 00-4051  | EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 1,483.31 130.96    |
| 40 05 19 00-4052  | EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 1,962.72 153.60    |
| 40 05 19 00-4053  | EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 2,698.18 172.32    |
| 40 05 19 00-4054  | EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 3,257.84 196.93    |
| 40 05 19 00-4055  | EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 4,386.62 275.70    |
| 40 05 19 00-4056  | EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 5,885.12 344.63    |
| 40 05 19 00-4057  | EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 8,613.83 418.47    |
| 40 05 19 00-4058  | EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 12,467.13 487.40   |
| 40 05 19 00-4059  | EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 23,319.72 536.63   |
| 40 05 19 00-4060  | EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 33,408.83 590.78   |
| 40 05 19 00-4061  | EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....             | 44,518.74 664.63   |
| <br><b>40 05 19 00-4062 Ductile Iron Bolt Packs <small>(40 05 19)</small></b>                       |  |                    |
| Note: Labor installation is included with pipe fittings or valves.                                  |  |                    |
| 40 05 19 00-4063  | EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....  | 44.25              |
| Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.                     |  |                    |
| For Zinc Plated, Add 12.39  |  |                    |
| For Hot Dip Galvanized, Add 17.70   |  |                    |
| 40 05 19 00-4064  | EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....  | 68.27              |
| Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.                     |  |                    |
| For Zinc Plated, Add 19.12  |  |                    |
| For Hot Dip Galvanized, Add 27.31   |  |                    |
| 40 05 19 00-4065  | EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....  | 74.13              |
| Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.                     |  |                    |
| For Zinc Plated, Add 20.76  |  |                    |
| For Hot Dip Galvanized, Add 29.65   |  |                    |
| 40 05 19 00-4066  | EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....   | 166.52             |
| Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.                   |  |                    |
| For Zinc Plated, Add 46.63  |  |                    |
| For Hot Dip Galvanized, Add 66.61   |  |                    |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

| MINOR            | CSI | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|------------------|-----|-----|--|------------------------|----------------------|
| 40 05 19 00-4067 | EA  |     | 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 167.98                 |                      |
|                  |     |     | Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.          |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 47.03                  |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 67.19                  |                      |
| 40 05 19 00-4068 | EA  |     | 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 188.20                 |                      |
|                  |     |     | Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.            |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 52.70                  |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 75.28                  |                      |
| 40 05 19 00-4069 | EA  |     | 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 316.39                 |                      |
|                  |     |     | Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.           |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 88.59                  |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 126.56                 |                      |
| 40 05 19 00-4070 | EA  |     | 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 459.63                 |                      |
|                  |     |     | Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.       |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 128.70                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 183.85                 |                      |
| 40 05 19 00-4071 | EA  |     | 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 580.34                 |                      |
|                  |     |     | Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.        |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 162.50                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 232.14                 |                      |
| 40 05 19 00-4072 | EA  |     | 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 830.36                 |                      |
|                  |     |     | Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.        |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 232.50                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 332.14                 |                      |
| 40 05 19 00-4073 | EA  |     | 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 1,312.09               |                      |
|                  |     |     | Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.  |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 367.39                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 524.84                 |                      |
| 40 05 19 00-4074 | EA  |     | 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 1,871.73               |                      |
|                  |     |     | Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.    |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 524.08                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 748.69                 |                      |
| 40 05 19 00-4075 | EA  |     | 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 2,407.93               |                      |
|                  |     |     | Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.    |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 674.22                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 963.17                 |                      |
| 40 05 19 00-4076 | EA  |     | 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....                                      | 2,943.02               |                      |
|                  |     |     | Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.    |                        |                      |
|                  |     |     | For Zinc Plated, Add   | 824.05                 |                      |
|                  |     |     | For Hot Dip Galvanized, Add  | 1,177.21               |                      |
| 40 05 19 00-4077 |     |     | <b>Full Face Flange Gaskets, ANSI/AWWA C115/A21.15</b> (40 05 19)                          |                        |                      |
|                  |     |     | Note: Labor installation is included with pipe fittings or valves.                         |                        |                      |
| 40 05 19 00-4078 |     |     | <b>Full Face Flange Styrene Butadiene (SBR) Gaskets</b> (40 05 19 00-4077)                 |                        |                      |
| 40 05 19 00-4079 | EA  |     | 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                        | 9.01                   |                      |
| 40 05 19 00-4080 | EA  |     | 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                        | 11.47                  |                      |
| 40 05 19 00-4081 | EA  |     | 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                        | 15.56                  |                      |
| 40 05 19 00-4082 | EA  |     | 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 18.02                  |                      |
| 40 05 19 00-4083 | EA  |     | 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 19.66                  |                      |
| 40 05 19 00-4084 | EA  |     | 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 32.76                  |                      |
| 40 05 19 00-4085 | EA  |     | 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 40.13                  |                      |
| 40 05 19 00-4086 | EA  |     | 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 42.59                  |                      |
| 40 05 19 00-4087 | EA  |     | 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 65.52                  |                      |
| 40 05 19 00-4088 | EA  |     | 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 70.43                  |                      |
| 40 05 19 00-4089 | EA  |     | 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 90.91                  |                      |
| 40 05 19 00-4090 | EA  |     | 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 104.01                 |                      |
| 40 05 19 00-4091 | EA  |     | 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 111.38                 |                      |
| 40 05 19 00-4092 | EA  |     | 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....                       | 122.03                 |                      |
| 40 05 19 00-4093 |     |     | <b>Full Face Flange Nitrile Buna-N (NBR) Gaskets</b> (40 05 19 00-4077)                    |                        |                      |
|                  |     |     | Note: (Acrylonitrile Butadiene)  |                        |                      |
| 40 05 19 00-4094 | EA  |     | 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                  | 27.85                  |                      |
| 40 05 19 00-4095 | EA  |     | 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                  | 39.31                  |                      |
| 40 05 19 00-4096 | EA  |     | 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                  | 60.61                  |                      |
| 40 05 19 00-4097 | EA  |     | 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 66.34                  |                      |
| 40 05 19 00-4098 | EA  |     | 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 71.25                  |                      |
| 40 05 19 00-4099 | EA  |     | 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 134.32                 |                      |
| 40 05 19 00-4100 | EA  |     | 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 165.44                 |                      |
| 40 05 19 00-4101 | EA  |     | 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 166.26                 |                      |
| 40 05 19 00-4102 | EA  |     | 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 172.81                 |                      |
| 40 05 19 00-4103 | EA  |     | 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 182.64                 |                      |
| 40 05 19 00-4104 | EA  |     | 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 202.29                 |                      |
| 40 05 19 00-4105 | EA  |     | 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 222.77                 |                      |
| 40 05 19 00-4106 | EA  |     | 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 316.95                 |                      |
| 40 05 19 00-4107 | EA  |     | 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....                                 | 346.44                 |                      |
| 40 05 19 00-4108 |     |     | <b>Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets</b> (40 05 19 00-4077) |                        |                      |
| 40 05 19 00-4109 | EA  |     | 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....        | 24.57                  |                      |
| 40 05 19 00-4110 | EA  |     | 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....        | 31.94                  |                      |



| MINOR CSI UOM DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|--|------------------------|----------------------|
| 40 05 19 00-4111 EA 8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....  | 43.41                  |                      |
| 40 05 19 00-4112 EA 10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 50.78                  |                      |
| 40 05 19 00-4113 EA 12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 56.51                  |                      |
| 40 05 19 00-4114 EA 14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 93.37                  |                      |
| 40 05 19 00-4115 EA 16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 112.20                 |                      |
| 40 05 19 00-4116 EA 18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 113.02                 |                      |
| 40 05 19 00-4117 EA 20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 115.48                 |                      |
| 40 05 19 00-4118 EA 24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 134.32                 |                      |
| 40 05 19 00-4119 EA 30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 164.62                 |                      |
| 40 05 19 00-4120 EA 36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 187.55                 |                      |
| 40 05 19 00-4121 EA 42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 268.63                 |                      |
| 40 05 19 00-4122 EA 48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick..... | 296.48                 |                      |

**40 05 19 00-4123 Full Face Flange Neoprene Gaskets** (40 05 19 00-4077)

Note: (Polychloroprene)

|   |        |  |
|---|--------|--|
| 40 05 19 00-4124 EA 4" Full Face Flange Neoprene Gasket, 1/8" Thick.....  | 28.66  |  |
| 40 05 19 00-4125 EA 6" Full Face Flange Neoprene Gasket, 1/8" Thick.....  | 40.13  |  |
| 40 05 19 00-4126 EA 8" Full Face Flange Neoprene Gasket, 1/8" Thick.....  | 61.42  |  |
| 40 05 19 00-4127 EA 10" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 66.34  |  |
| 40 05 19 00-4128 EA 12" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 71.25  |  |
| 40 05 19 00-4129 EA 14" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 95.00  |  |
| 40 05 19 00-4130 EA 16" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 167.08 |  |
| 40 05 19 00-4131 EA 18" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 167.90 |  |
| 40 05 19 00-4132 EA 20" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 177.72 |  |
| 40 05 19 00-4133 EA 24" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 180.18 |  |
| 40 05 19 00-4134 EA 30" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 195.74 |  |
| 40 05 19 00-4135 EA 36" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 220.31 |  |
| 40 05 19 00-4136 EA 42" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 319.41 |  |
| 40 05 19 00-4137 EA 48" Full Face Flange Neoprene Gasket, 1/8" Thick..... | 349.71 |  |

**40 05 19 00-4138 Full Face Flange FKM Gaskets** (40 05 19 00-4077)

Note: (Fluoroelastomer Fluorel Viton®)

|  |          |  |
|--|----------|--|
| 40 05 19 00-4139 EA 4" Full Face Flange FKM Gasket, 1/8" Thick.....  | 118.95   |  |
| 40 05 19 00-4140 EA 6" Full Face Flange FKM Gasket, 1/8" Thick.....  | 177.10   |  |
| 40 05 19 00-4141 EA 8" Full Face Flange FKM Gasket, 1/8" Thick.....  | 236.58   |  |
| 40 05 19 00-4142 EA 10" Full Face Flange FKM Gasket, 1/8" Thick..... | 285.48   |  |
| 40 05 19 00-4143 EA 12" Full Face Flange FKM Gasket, 1/8" Thick..... | 371.38   |  |
| 40 05 19 00-4144 EA 14" Full Face Flange FKM Gasket, 1/8" Thick..... | 679.33   |  |
| 40 05 19 00-4145 EA 16" Full Face Flange FKM Gasket, 1/8" Thick..... | 778.45   |  |
| 40 05 19 00-4146 EA 18" Full Face Flange FKM Gasket, 1/8" Thick..... | 815.46   |  |
| 40 05 19 00-4147 EA 20" Full Face Flange FKM Gasket, 1/8" Thick..... | 869.65   |  |
| 40 05 19 00-4148 EA 24" Full Face Flange FKM Gasket, 1/8" Thick..... | 1,202.70 |  |
| 40 05 19 00-4149 EA 30" Full Face Flange FKM Gasket, 1/8" Thick..... | 1,441.92 |  |
| 40 05 19 00-4150 EA 36" Full Face Flange FKM Gasket, 1/8" Thick..... | 1,521.22 |  |
| 40 05 19 00-4151 EA 42" Full Face Flange FKM Gasket, 1/8" Thick..... | 1,896.57 |  |
| 40 05 19 00-4152 EA 48" Full Face Flange FKM Gasket, 1/8" Thick..... | 1,987.76 |  |

**40 05 19 00-4153 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)** (40 05 19)

|  |           |          |
|--|-----------|----------|
| 40 05 19 00-4154 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....  | 405.78    | 79.36    |
| 40 05 19 00-4155 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....  | 561.78    | 96.88    |
| 40 05 19 00-4156 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....  | 829.65    | 118.16   |
| 40 05 19 00-4157 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 1,138.09  | 144.14   |
| 40 05 19 00-4158 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 1,444.31  | 175.77   |
| 40 05 19 00-4159 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 2,315.23  | 214.45   |
| 40 05 19 00-4160 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 3,635.22  | 261.72   |
| 40 05 19 00-4161 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 3,757.28  | 319.21   |
| 40 05 19 00-4162 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 4,603.10  | 389.51   |
| 40 05 19 00-4163 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 5,132.00  | 475.10   |
| 40 05 19 00-4164 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 6,611.53  | 579.74   |
| 40 05 19 00-4165 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 9,817.03  | 707.19   |
| 40 05 19 00-4166 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 25,516.87 | 862.86   |
| 40 05 19 00-4167 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)..... | 32,589.38 | 1,052.62 |

**40 05 23 Stainless Steel Process Pipe and Tubing** (40 05)

**40 05 23 23 300- and 400-Series Stainless Steel Process Pipe** (40 05 23)

**40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly** (40 05 23)

Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.

|   |       |       |
|---|-------|-------|
| 40 05 23 23-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....   | 44.11 | 12.55 |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. |       |       |
| <i>For Type 316, Add</i>  |       |       |
|   |       | 4.91  |
| <i>For Work In Restricted Working Space, Add</i>  |       |       |
|   |       | 7.57  |
| 40 05 23 23-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....   | 49.77 | 14.39 |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. |       |       |
| <i>For Type 316, Add</i>  |       |       |
|   |       | 5.15  |
| <i>For Work In Restricted Working Space, Add</i>  |       |       |
|   |       | 8.99  |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly .....     | 57.97                     | 16.23                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Type 316, Add  | 6.03                      |                         |
| For Work In Restricted Working Space, Add  | 10.43                     |                         |
| 40 05 23 23-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... | 66.72                     | 19.60                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Type 316, Add  | 7.61                      |                         |
| For Work In Restricted Working Space, Add  | 11.23                     |                         |
| 40 05 23 23-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... | 73.68                     | 20.16                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Type 316, Add  | 8.72                      |                         |
| For Work In Restricted Working Space, Add  | 12.04                     |                         |
| 40 05 23 23-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly .....     | 89.26                     | 26.65                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Type 316, Add  | 10.63                     |                         |
| For Work In Restricted Working Space, Add  | 14.51                     |                         |
| 40 05 23 23-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... | 130.24                    | 32.85                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Type 316, Add  | 18.29                     |                         |
| For Work In Restricted Working Space, Add  | 17.97                     |                         |
| 40 05 23 23-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly .....     | 164.88                    | 38.06                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Type 316, Add  | 23.82                     |                         |
| For Work In Restricted Working Space, Add  | 21.98                     |                         |
| 40 05 23 23-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly .....     | 224.90                    | 38.06                   |
| Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.  |                           |                         |
| For Work In Restricted Working Space, Add  | 27.89                     |                         |
| <b>40 05 23 23-0011 Stainless Steel Tubing And Fittings</b> <small>(40 05 23 23)</small>                         |                           |                         |
| <b>40 05 23 23-0012 Type 304 Tubing</b> <small>(40 05 23 23-0011)</small>  |                           |                         |
| <b>40 05 23 23-0013 0.035" Wall</b> <small>(40 05 23 23-0012)</small>  |                           |                         |
| 40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                    | 10.55                     | 4.13                    |
| For Work In Restricted Working Space, Add  | 2.46                      |                         |
| 40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                    | 12.29                     | 4.90                    |
| For Work In Restricted Working Space, Add  | 2.96                      |                         |
| 40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                    | 14.63                     | 5.82                    |
| For Work In Restricted Working Space, Add  | 3.45                      |                         |
| 40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                    | 22.66                     | 6.59                    |
| For Work In Restricted Working Space, Add  | 3.95                      |                         |
| 40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                    | 26.70                     | 7.35                    |
| For Work In Restricted Working Space, Add  | 4.44                      |                         |
| 40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                    | 29.56                     | 8.28                    |
| For Work In Restricted Working Space, Add  | 4.94                      |                         |
| 40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing .....                                      | 33.33                     | 9.95                    |
| For Work In Restricted Working Space, Add  | 5.93                      |                         |
| <b>40 05 23 23-0021 0.049" Wall</b> <small>(40 05 23 23-0012)</small>  |                           |                         |
| 40 05 23 23-0022 LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                    | 16.76                     | 4.90                    |
| For Work In Restricted Working Space, Add  | 2.96                      |                         |
| 40 05 23 23-0023 LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                    | 18.78                     | 5.82                    |
| For Work In Restricted Working Space, Add  | 3.45                      |                         |
| 40 05 23 23-0024 LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                    | 22.45                     | 6.59                    |
| For Work In Restricted Working Space, Add  | 3.95                      |                         |
| 40 05 23 23-0025 LF 5/8", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                    | 28.37                     | 8.28                    |
| For Work In Restricted Working Space, Add  | 4.94                      |                         |
| 40 05 23 23-0026 LF 3/4", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                    | 32.65                     | 9.95                    |
| For Work In Restricted Working Space, Add  | 5.93                      |                         |
| 40 05 23 23-0027 LF 7/8", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                    | 36.86                     | 11.49                   |
| For Work In Restricted Working Space, Add  | 6.91                      |                         |
| 40 05 23 23-0028 LF 1", 0.049" Wall, Type 304, Stainless Steel Tubing .....                                      | 42.44                     | 13.02                   |
| For Work In Restricted Working Space, Add  | 7.85                      |                         |
| <b>40 05 23 23-0029 0.065" Wall</b> <small>(40 05 23 23-0012)</small>  |                           |                         |
| 40 05 23 23-0030 LF 1/4", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                    | 19.56                     | 5.82                    |
| For Work In Restricted Working Space, Add  | 3.45                      |                         |
| 40 05 23 23-0031 LF 3/8", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                    | 22.50                     | 6.59                    |
| For Work In Restricted Working Space, Add  | 3.95                      |                         |
| 40 05 23 23-0032 LF 1/2", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                    | 27.79                     | 8.28                    |
| For Work In Restricted Working Space, Add  | 4.94                      |                         |
| 40 05 23 23-0033 LF 5/8", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                    | 32.76                     | 9.95                    |
| For Work In Restricted Working Space, Add  | 5.93                      |                         |
| 40 05 23 23-0034 LF 3/4", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                    | 38.57                     | 11.49                   |
| For Work In Restricted Working Space, Add  | 6.91                      |                         |
| 40 05 23 23-0035 LF 7/8", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                    | 44.26                     | 13.02                   |
| For Work In Restricted Working Space, Add  | 7.85                      |                         |
| 40 05 23 23-0036 LF 1", 0.065" Wall, Type 304, Stainless Steel Tubing .....                                      | 49.87                     | 14.70                   |
| For Work In Restricted Working Space, Add  | 8.84                      |                         |



|                  | MINOR<br>CSI UOM DESCRIPTION                                    |       | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------|---|-------|---------------------------|-------------------------|
| 40 05 23 23-0037 | <b>Type 304 Tube Fittings</b> <small>(40 05 23 23-0011)</small> |       |                           |                         |
| 40 05 23 23-0038 | <b>90 Degree Elbows</b> <small>(40 05 23 23-0037)</small>       |       |                           |                         |
| 40 05 23 23-0039 | EA 1/4", Type 304, Stainless Steel, 90 Degree Elbow             | ..... | 62.31                     | 16.54                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 9.88                      |                         |
| 40 05 23 23-0040 | EA 3/8", Type 304, Stainless Steel, 90 Degree Elbow             | ..... | 73.08                     | 18.08                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 10.81                     |                         |
| 40 05 23 23-0041 | EA 1/2", Type 304, Stainless Steel, 90 Degree Elbow             | ..... | 107.25                    | 20.37                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 12.25                     |                         |
| 40 05 23 23-0042 | EA 5/8", Type 304, Stainless Steel, 90 Degree Elbow             | ..... | 115.01                    | 22.83                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 13.72                     |                         |
| 40 05 23 23-0043 | EA 3/4", Type 304, Stainless Steel, 90 Degree Elbow             | ..... | 128.27                    | 24.67                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 14.82                     |                         |
| 40 05 23 23-0044 | EA 7/8", Type 304, Stainless Steel, 90 Degree Elbow             | ..... | 172.53                    | 27.42                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 16.41                     |                         |
| 40 05 23 23-0045 | EA 1", Type 304, Stainless Steel, 90 Degree Elbow               | ..... | 218.76                    | 32.63                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 19.55                     |                         |
| 40 05 23 23-0046 | <b>Union Tees</b> <small>(40 05 23 23-0037)</small>             |       |                           |                         |
| 40 05 23 23-0047 | EA 1/4", Type 304, Stainless Steel, Union Tee                   | ..... | 98.26                     | 24.67                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 14.82                     |                         |
| 40 05 23 23-0048 | EA 3/8", Type 304, Stainless Steel, Union Tee                   | ..... | 118.09                    | 27.42                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 16.41                     |                         |
| 40 05 23 23-0049 | EA 1/2", Type 304, Stainless Steel, Union Tee                   | ..... | 158.50                    | 30.64                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 18.38                     |                         |
| 40 05 23 23-0050 | EA 5/8", Type 304, Stainless Steel, Union Tee                   | ..... | 171.31                    | 34.77                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 20.89                     |                         |
| 40 05 23 23-0051 | EA 3/4", Type 304, Stainless Steel, Union Tee                   | ..... | 215.85                    | 37.37                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 22.42                     |                         |
| 40 05 23 23-0052 | EA 7/8", Type 304, Stainless Steel, Union Tee                   | ..... | 335.35                    | 41.36                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 24.84                     |                         |
| 40 05 23 23-0053 | EA 1", Type 304, Stainless Steel, Union Tee                     | ..... | 401.82                    | 49.48                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 29.65                     |                         |
| 40 05 23 23-0054 | <b>Unions</b> <small>(40 05 23 23-0037)</small>                 |       |                           |                         |
| 40 05 23 23-0055 | EA 1/4", Type 304, Stainless Steel, Union                       | ..... | 94.37                     | 24.67                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 14.82                     |                         |
| 40 05 23 23-0056 | EA 3/8", Type 304, Stainless Steel, Union                       | ..... | 120.28                    | 27.42                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 16.41                     |                         |
| 40 05 23 23-0057 | EA 1/2", Type 304, Stainless Steel, Union                       | ..... | 159.94                    | 30.64                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 18.38                     |                         |
| 40 05 23 23-0058 | EA 5/8", Type 304, Stainless Steel, Union                       | ..... | 193.88                    | 34.77                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 20.89                     |                         |
| 40 05 23 23-0059 | EA 3/4", Type 304, Stainless Steel, Union                       | ..... | 229.58                    | 37.37                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 22.42                     |                         |
| 40 05 23 23-0060 | EA 7/8", Type 304, Stainless Steel, Union                       | ..... | 346.31                    | 41.36                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 24.84                     |                         |
| 40 05 23 23-0061 | EA 1", Type 304, Stainless Steel, Union                         | ..... | 370.77                    | 49.48                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 29.65                     |                         |
| 40 05 23 23-0062 | <b>Male Connectors</b> <small>(40 05 23 23-0037)</small>        |       |                           |                         |
| 40 05 23 23-0063 | EA 1/4" x 1/4", Type 304, Stainless Steel, Male Connection      | ..... | 48.40                     | 16.54                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 9.88                      |                         |
| 40 05 23 23-0064 | EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection      | ..... | 59.39                     | 18.08                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 10.81                     |                         |
| 40 05 23 23-0065 | EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection      | ..... | 75.79                     | 20.37                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 12.25                     |                         |
| 40 05 23 23-0066 | EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304        | ..... | 85.34                     | 22.83                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 13.72                     |                         |
| 40 05 23 23-0067 | EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection      | ..... | 101.91                    | 24.67                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 14.82                     |                         |
| 40 05 23 23-0068 | EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection      | ..... | 149.41                    | 27.42                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 16.41                     |                         |
| 40 05 23 23-0069 | EA 1" x 1", Type 304, Stainless Steel, Male Connection          | ..... | 158.10                    | 32.63                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 19.55                     |                         |
| 40 05 23 23-0070 | <b>Type 304 Valves</b> <small>(40 05 23 23-0011)</small>        |       |                           |                         |
| 40 05 23 23-0071 | <b>Gate Valves</b> <small>(40 05 23 23-0070)</small>            |       |                           |                         |
| 40 05 23 23-0072 | EA 1/4" Gate Valve, Stainless Steel Type 304                    | ..... | 241.96                    | 24.67                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 13.38                     |                         |
| 40 05 23 23-0073 | EA 3/8" Gate Valve, Stainless Steel Type 304                    | ..... | 402.82                    | 28.95                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 14.09                     |                         |
| 40 05 23 23-0074 | EA 1/2" Gate Valve, Stainless Steel Type 304                    | ..... | 421.05                    | 32.63                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 19.55                     |                         |
| 40 05 23 23-0075 | EA 3/4" Gate Valve, Stainless Steel Type 304                    | ..... | 467.18                    | 37.37                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 22.42                     |                         |
| 40 05 23 23-0076 | EA 1" Gate Valve, Stainless Steel Type 304                      | ..... | 434.10                    | 49.48                   |
|                  | <i>For Work In Restricted Working Space, Add</i>                |       | 29.65                     |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>40 05 23 23-0077 Globe Valves</b> <small>(40 05 23 23-0070)</small>       |                           |                         |
| 40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 .....         | 245.19                    | 24.67                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.38                     |                         |
| 40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 .....         | 165.01                    | 28.95                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 14.09                     |                         |
| 40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 .....         | 293.14                    | 32.63                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 19.55                     |                         |
| 40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 .....         | 326.70                    | 37.37                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 22.42                     |                         |
| 40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 .....           | 474.81                    | 49.48                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 29.65                     |                         |
| <b>40 05 23 23-0083 Check Valves</b> <small>(40 05 23 23-0070)</small>       |                           |                         |
| 40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 .....         | 340.22                    | 24.67                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 13.38                     |                         |
| 40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 .....         | 342.57                    | 28.95                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 14.09                     |                         |
| 40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 .....         | 230.42                    | 32.63                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 19.55                     |                         |
| 40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 .....         | 242.36                    | 37.37                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 22.42                     |                         |
| 40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 .....           | 271.25                    | 49.48                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 29.65                     |                         |
| <b>40 05 23 23-0089 Plug Valves</b> <small>(40 05 23 23-0070)</small>        |                           |                         |
| 40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304 .....          | 525.57                    | 32.63                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 19.55                     |                         |
| 40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304 .....          | 576.03                    | 37.37                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 22.42                     |                         |
| 40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304 .....            | 654.69                    | 49.48                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 29.65                     |                         |
| 40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304 .....        | 904.88                    | 55.91                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 33.54                     |                         |
| 40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304 .....            | 1,179.65                  | 76.59                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 45.95                     |                         |
| <b>40 05 23 23-0095 Type 316 Tubing</b> <small>(40 05 23 23-0011)</small>    |                           |                         |
| <b>40 05 23 23-0096 0.035" Wall</b> <small>(40 05 23 23-0095)</small>        |                           |                         |
| 40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall ..... | 10.90                     | 4.13                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 2.46                      |                         |
| 40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall ..... | 14.03                     | 4.90                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 2.96                      |                         |
| 40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall ..... | 15.69                     | 5.82                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 3.45                      |                         |
| 40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall ..... | 25.46                     | 6.59                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 3.95                      |                         |
| 40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall ..... | 28.87                     | 7.35                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 4.44                      |                         |
| 40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall ..... | 36.26                     | 8.28                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 4.94                      |                         |
| 40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall .....   | 38.52                     | 9.95                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 5.93                      |                         |
| <b>40 05 23 23-0104 0.049" Wall</b> <small>(40 05 23 23-0095)</small>        |                           |                         |
| 40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall ..... | 18.26                     | 4.90                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 2.96                      |                         |
| 40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall ..... | 20.36                     | 5.82                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 3.45                      |                         |
| 40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall ..... | 23.93                     | 6.59                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 3.95                      |                         |
| 40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall ..... | 31.09                     | 8.28                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 4.94                      |                         |
| 40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall ..... | 36.04                     | 9.95                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 5.93                      |                         |
| 40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall ..... | 45.58                     | 11.49                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 6.91                      |                         |
| 40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall .....   | 47.02                     | 13.02                   |
| <i>For Work In Restricted Working Space, Add</i>                             | 7.85                      |                         |
| <b>40 05 23 23-0112 0.065" Wall</b> <small>(40 05 23 23-0095)</small>        |                           |                         |
| 40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall ..... | 21.35                     | 5.82                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 3.45                      |                         |
| 40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall ..... | 23.87                     | 6.59                    |
| <i>For Work In Restricted Working Space, Add</i>                             | 3.95                      |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall<br><i>For Work In Restricted Working Space, Add</i>   | 29.94<br>4.94             | 8.28                    |
| 40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall<br><i>For Work In Restricted Working Space, Add</i>   | 35.71<br>5.93             | 9.95                    |
| 40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall<br><i>For Work In Restricted Working Space, Add</i>   | 43.11<br>6.91             | 11.49                   |
| 40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall<br><i>For Work In Restricted Working Space, Add</i>   | 47.62<br>7.85             | 13.02                   |
| 40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall<br><i>For Work In Restricted Working Space, Add</i>     | 55.30<br>8.84             | 14.70                   |
| <b>40 05 23 23-0120 Type 316 Tube Fittings</b> <small>(40 05 23 23-0011)</small>   |                           |                         |
| <b>40 05 23 23-0121 90 Degree Elbows</b> <small>(40 05 23 23-0120)</small>   |                           |                         |
| 40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>       | 83.52<br>9.88             | 16.54                   |
| 40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>       | 99.82<br>10.81            | 18.08                   |
| 40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>       | 155.20<br>12.25           | 20.37                   |
| 40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>       | 165.03<br>13.72           | 22.83                   |
| 40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>       | 185.21<br>14.82           | 24.67                   |
| 40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>       | 257.59<br>16.41           | 27.42                   |
| 40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>         | 329.64<br>19.55           | 32.63                   |
| <b>40 05 23 23-0129 Union Tees</b> <small>(40 05 23 23-0120)</small>   |                           |                         |
| 40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>             | 133.53<br>14.82           | 24.67                   |
| 40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>             | 163.85<br>16.41           | 27.42                   |
| 40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>             | 228.70<br>18.38           | 30.64                   |
| 40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>             | 244.73<br>20.89           | 34.77                   |
| 40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>             | 317.73<br>22.42           | 37.37                   |
| 40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>             | 517.68<br>24.84           | 41.36                   |
| 40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>               | 620.58<br>29.65           | 49.48                   |
| <b>40 05 23 23-0137 Unions</b> <small>(40 05 23 23-0120)</small>   |                           |                         |
| 40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                 | 89.00<br>14.82            | 24.67                   |
| 40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                 | 112.44<br>16.41           | 27.42                   |
| 40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                 | 148.15<br>18.38           | 30.64                   |
| 40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                 | 179.03<br>20.89           | 34.77                   |
| 40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                 | 211.07<br>22.42           | 37.37                   |
| 40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                 | 314.81<br>24.84           | 41.36                   |
| 40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>                   | 338.26<br>29.65           | 49.48                   |
| <b>40 05 23 23-0145 Male Connectors</b> <small>(40 05 23 23-0120)</small>  |                           |                         |
| 40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i> | 59.33<br>9.88             | 16.54                   |
| 40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i> | 75.90<br>10.81            | 18.08                   |
| 40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i> | 100.49<br>12.25           | 20.37                   |
| 40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i> | 113.35<br>13.72           | 22.83                   |
| 40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i> | 139.03<br>14.82           | 24.67                   |
| 40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i> | 216.35<br>16.41           | 27.42                   |
| 40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316<br><i>For Work In Restricted Working Space, Add</i>     | 223.80<br>19.55           | 32.63                   |
| <b>40 05 23 23-0153 Type 316 Valves</b> <small>(40 05 23 23-0011)</small>  |                           |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| <b>40 05 23 23-0154 Gate Valves</b> <small>(40 05 23 23-0153)</small>   |                           |                         |
| 40 05 23 23-0155 EA 1/4" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 305.68<br>13.38           | 24.67                   |
| 40 05 23 23-0156 EA 3/8" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 517.72<br>14.09           | 28.95                   |
| 40 05 23 23-0157 EA 1/2" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 535.95<br>19.55           | 32.63                   |
| 40 05 23 23-0158 EA 3/4" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 593.90<br>22.42           | 37.37                   |
| 40 05 23 23-0159 EA 1" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 542.35<br>29.65           | 49.48                   |
| 40 05 23 23-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 740.07<br>30.79           | 51.31                   |
| 40 05 23 23-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,181.03<br>33.54         | 55.91                   |
| 40 05 23 23-0162 EA 2" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 1,407.73<br>45.95         | 76.59                   |
| 40 05 23 23-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>   | 2,129.80<br>147.10        | 245.23                  |
| <b>40 05 23 23-0164 Globe Valves</b> <small>(40 05 23 23-0153)</small>  |                           |                         |
| 40 05 23 23-0165 EA 1/4" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 309.96<br>13.38           | 24.67                   |
| 40 05 23 23-0166 EA 3/8" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 203.14<br>14.09           | 28.95                   |
| 40 05 23 23-0167 EA 1/2" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 366.75<br>19.55           | 32.63                   |
| 40 05 23 23-0168 EA 3/4" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 408.06<br>22.42           | 37.37                   |
| 40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 596.20<br>29.65           | 49.48                   |
| 40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 741.37<br>30.56           | 51.01                   |
| 40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,223.80<br>33.54         | 55.91                   |
| 40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,450.50<br>45.95         | 76.59                   |
| 40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,858.93<br>147.10        | 245.23                  |
| <b>40 05 23 23-0174 Check Valves</b> <small>(40 05 23 23-0153)</small>  |                           |                         |
| 40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 435.66<br>13.38           | 24.67                   |
| 40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 438.01<br>14.09           | 28.95                   |
| 40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 283.78<br>19.55           | 32.63                   |
| 40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 296.48<br>22.42           | 37.37                   |
| 40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 326.92<br>29.65           | 49.48                   |
| 40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 447.35<br>30.79           | 51.31                   |
| 40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 981.44<br>33.54           | 55.91                   |
| 40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 1,193.89<br>45.95         | 76.59                   |
| 40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316 .....<br><i>For Work In Restricted Working Space, Add</i>  | 2,391.16<br>147.10        | 245.23                  |
| <b>40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined</b> <small>(40 05 23 23-0153)</small>   |                           |                         |
| 40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined .....<br><i>For Work In Restricted Working Space, Add</i>   | 470.46<br>19.55           | 32.63                   |
| 40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined .....<br><i>For Work In Restricted Working Space, Add</i>   | 549.39<br>22.42           | 37.37                   |
| 40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined .....<br><i>For Work In Restricted Working Space, Add</i>     | 701.18<br>29.65           | 49.48                   |
| 40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined .....<br><i>For Work In Restricted Working Space, Add</i> | 1,111.12<br>33.54         | 55.91                   |
| 40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined .....<br><i>For Work In Restricted Working Space, Add</i>     | 1,552.22<br>45.95         | 76.59                   |
| <b>40 05 23 23-0190 Diaphragm Valves, Teflon Lined</b> <small>(40 05 23 23-0153)</small>  |                           |                         |
| 40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 620.35<br>19.55           | 32.63                   |
| 40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined .....<br><i>For Work In Restricted Working Space, Add</i>                                    | 713.17<br>22.42           | 37.37                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....<br><i>For Work In Restricted Working Space, Add</i>                     | 864.96<br>29.65           | 49.48                   |
| 40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,341.51<br>33.54         | 55.91                   |
| 40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....<br><i>For Work In Restricted Working Space, Add</i>                     | 1,827.02<br>45.95         | 76.59                   |
| <b>40 05 23 23-0196 Strainers</b> (40 05 23 23-0153)  |                           |                         |
| 40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 621.80<br>19.55           | 32.63                   |
| 40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 743.75<br>22.52           | 37.53                   |
| 40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 973.32<br>29.87           | 49.78                   |
| 40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 1,205.79<br>30.79         | 51.31                   |
| 40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 1,511.22<br>33.55         | 55.91                   |
| 40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 2,178.30<br>45.96         | 76.59                   |
| 40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 2,992.69<br>61.12         | 101.86                  |
| 40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 4,359.46<br>91.91         | 153.18                  |
| 40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 5,593.14<br>147.04        | 245.08                  |
| <b>40 05 23 23-0206 Plug Valves</b> (40 05 23 23-0153)  |                           |                         |
| 40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 662.03<br>19.55           | 32.63                   |
| 40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>                                      | 724.62<br>22.42           | 37.37                   |
| 40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 819.46<br>29.65           | 49.48                   |
| 40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>                                    | 1,139.96<br>33.54         | 55.91                   |
| 40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316.....<br><i>For Work In Restricted Working Space, Add</i>  | 1,483.91<br>45.95         | 76.59                   |
| <b>40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place</b> (40 05 23 23-0011)   |                           |                         |
| Note: For use when connecting pipe to an existing in-place system.  |                           |                         |
| 40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....  | 30.63                     |                         |
| 40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....  | 33.08                     |                         |
| 40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....  | 37.21                     |                         |
| 40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....  | 39.05                     |                         |
| 40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....  | 41.34                     |                         |
| 40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....  | 44.40                     |                         |
| 40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....  | 47.48                     |                         |
| 40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....  | 52.06                     |                         |
| 40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....  | 56.65                     |                         |
| 40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....  | 61.25                     |                         |
| 40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....  | 65.84                     |                         |
| 40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....   | 71.97                     |                         |
| 40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe.....   | 78.10                     |                         |
| 40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe.....   | 84.22                     |                         |
| 40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe.....   | 90.35                     |                         |
| 40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe.....   | 94.94                     |                         |
| 40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe.....   | 99.54                     |                         |
| 40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe.....   | 105.66                    |                         |
| <b>40 05 23 23-0231 Stainless Steel Pipe And Fittings</b> (40 05 23 23)   |                           |                         |
| <b>40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings</b><br>(40 05 23 23-0231)                                       |                           |                         |
| <b>40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe</b> (40 05 23 23-0232)  |                           |                         |
| 40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i>   | 22.45<br>3.95             | 6.59                    |
| 40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i>   | 27.64<br>4.94             | 8.28                    |
| 40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i>     | 33.97<br>5.93             | 9.95                    |
| 40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i> | 40.78<br>6.91             | 11.49                   |
| 40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i> | 47.16<br>7.85             | 13.02                   |
| 40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i>     | 60.23<br>9.88             | 16.54                   |
| 40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....<br><i>For Work In Restricted Working Space, Add</i> | 81.41<br>11.78            | 19.61                   |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 102.33<br>14.82           | 24.67                   |
| 40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 138.44<br>19.55           | 32.63                   |
| <b>40 05 23 23-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)</b>  |                           |                         |
| 40 05 23 23-0244 EA 1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>              | 52.74<br>14.82            | 24.67                   |
| 40 05 23 23-0245 EA 3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>              | 69.94<br>19.55            | 32.63                   |
| 40 05 23 23-0246 EA 1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 89.73<br>24.84            | 41.36                   |
| 40 05 23 23-0247 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>            | 125.31<br>34.04           | 56.68                   |
| 40 05 23 23-0248 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>            | 148.98<br>39.96           | 66.64                   |
| 40 05 23 23-0249 EA 2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 181.27<br>48.37           | 80.57                   |
| 40 05 23 23-0250 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>            | 300.92<br>76.59           | 127.60                  |
| 40 05 23 23-0251 EA 3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 387.53<br>98.83           | 164.66                  |
| 40 05 23 23-0252 EA 4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 521.88<br>122.54          | 204.19                  |
| <b>40 05 23 23-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)</b>  |                           |                         |
| 40 05 23 23-0254 EA 1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>              | 53.51<br>14.82            | 24.67                   |
| 40 05 23 23-0255 EA 3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>              | 71.18<br>19.55            | 32.63                   |
| 40 05 23 23-0256 EA 1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 90.12<br>24.84            | 41.36                   |
| 40 05 23 23-0257 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>            | 125.16<br>34.04           | 56.68                   |
| 40 05 23 23-0258 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>            | 147.15<br>39.96           | 66.64                   |
| 40 05 23 23-0259 EA 2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 180.85<br>48.37           | 80.57                   |
| 40 05 23 23-0260 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>            | 309.23<br>76.59           | 127.60                  |
| 40 05 23 23-0261 EA 3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 403.74<br>98.83           | 164.66                  |
| 40 05 23 23-0262 EA 4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 540.76<br>122.54          | 204.19                  |
| <b>40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)</b>  |                           |                         |
| 40 05 23 23-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                           | 79.25<br>22.42            | 37.37                   |
| 40 05 23 23-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                           | 106.00<br>29.65           | 49.48                   |
| 40 05 23 23-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                             | 131.68<br>36.76           | 61.28                   |
| 40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee .....<br><i>For Work In Restricted Working Space, Add</i>                        | 188.36<br>51.06           | 85.17                   |
| 40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee .....<br><i>For Work In Restricted Working Space, Add</i>                        | 214.07<br>57.44           | 95.73                   |
| 40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                             | 284.32<br>76.59           | 127.60                  |
| 40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee .....<br><i>For Work In Restricted Working Space, Add</i>                        | 431.33<br>110.73          | 184.58                  |
| 40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                             | 583.80<br>148.24          | 247.07                  |
| 40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                             | 774.68<br>183.81          | 306.36                  |
| <b>40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)</b>  |                           |                         |
| 40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                      | 69.37<br>19.55            | 32.63                   |
| 40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 88.51<br>24.84            | 41.36                   |
| 40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                    | 121.83<br>34.04           | 56.68                   |
| 40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                    | 145.25<br>39.96           | 66.64                   |
| 40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                        | 181.36<br>48.37           | 80.57                   |
| 40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                    | 298.46<br>76.59           | 127.60                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer<br><i>For Work In Restricted Working Space, Add</i>                           | 390.88<br>98.83           | 164.66                  |
| 40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer<br><i>For Work In Restricted Working Space, Add</i>                           | 510.29<br>122.54          | 204.19                  |
| <b>40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps <small>(40 05 23 23-0232)</small></b>  |                           |                         |
| 40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 26.93<br>7.41             | 12.41                   |
| 40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 35.72<br>9.88             | 16.54                   |
| 40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                               | 45.00<br>12.25            | 20.37                   |
| 40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                           | 65.35<br>17.34            | 28.95                   |
| 40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                           | 75.07<br>19.55            | 32.63                   |
| 40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                               | 95.39<br>24.84            | 41.36                   |
| 40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                           | 145.28<br>36.76           | 61.28                   |
| 40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                               | 192.68<br>48.37           | 80.57                   |
| 40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap<br><i>For Work In Restricted Working Space, Add</i>                               | 257.44<br>61.27           | 102.17                  |
| <b>40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions <small>(40 05 23 23-0232)</small></b>  |                           |                         |
| 40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                           | 84.07<br>22.42            | 37.37                   |
| 40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                           | 110.67<br>29.65           | 49.48                   |
| 40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                             | 140.44<br>36.76           | 61.28                   |
| 40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                         | 201.24<br>51.06           | 85.17                   |
| 40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                         | 226.56<br>57.44           | 95.73                   |
| 40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                             | 297.33<br>76.59           | 127.60                  |
| 40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                         | 496.78<br>114.89          | 191.47                  |
| 40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                             | 637.49<br>148.25          | 247.07                  |
| 40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union<br><i>For Work In Restricted Working Space, Add</i>                             | 641.21<br>122.56          | 204.26                  |
| <b>40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings <small>(40 05 23 23-0232)</small></b>   |                           |                         |
| 40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                        | 52.42<br>14.82            | 24.67                   |
| 40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                        | 69.52<br>19.55            | 32.63                   |
| 40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                          | 89.39<br>24.84            | 41.36                   |
| 40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                      | 123.95<br>34.04           | 56.68                   |
| 40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                      | 145.65<br>39.96           | 66.64                   |
| 40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                          | 178.80<br>48.37           | 80.57                   |
| 40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                      | 293.83<br>76.59           | 127.60                  |
| 40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                          | 379.22<br>98.83           | 164.66                  |
| 40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling<br><i>For Work In Restricted Working Space, Add</i>                          | 485.88<br>122.54          | 204.19                  |
| <b>40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings <small>(40 05 23 23-0231)</small></b>                     |                           |                         |
| <b>40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe <small>(40 05 23 23-0312)</small></b>   |                           |                         |
| 40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting<br><i>For Work In Restricted Working Space, Add</i>   | 27.37<br>3.95             | 6.59                    |
| 40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting<br><i>For Work In Restricted Working Space, Add</i>   | 32.49<br>4.94             | 8.28                    |
| 40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting<br><i>For Work In Restricted Working Space, Add</i>     | 40.94<br>5.93             | 9.95                    |
| 40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting<br><i>For Work In Restricted Working Space, Add</i> | 49.89<br>6.91             | 11.49                   |
| 40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting<br><i>For Work In Restricted Working Space, Add</i> | 57.95<br>7.85             | 13.02                   |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 74.68<br>9.88             | 16.54                   |
| 40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 101.60<br>11.78           | 19.61                   |
| 40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 132.45<br>14.82           | 24.67                   |
| 40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 177.64<br>19.55           | 32.63                   |
| <b>40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0312)</b>   |                           |                         |
| 40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 53.75<br>14.82            | 24.67                   |
| 40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 71.44<br>19.55            | 32.63                   |
| 40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 90.65<br>24.84            | 41.36                   |
| 40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 126.96<br>34.04           | 56.68                   |
| 40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 151.18<br>39.96           | 66.64                   |
| 40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 183.98<br>48.37           | 80.57                   |
| 40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 305.25<br>76.59           | 127.60                  |
| 40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 398.15<br>98.83           | 164.66                  |
| 40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 534.78<br>122.54          | 204.19                  |
| <b>40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0312)</b>   |                           |                         |
| 40 05 23 23-0334 EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 54.56<br>14.82            | 24.67                   |
| 40 05 23 23-0335 EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 71.95<br>19.55            | 32.63                   |
| 40 05 23 23-0336 EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 91.25<br>24.84            | 41.36                   |
| 40 05 23 23-0337 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 126.79<br>34.04           | 56.68                   |
| 40 05 23 23-0338 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 149.05<br>39.96           | 66.64                   |
| 40 05 23 23-0339 EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 183.39<br>48.37           | 80.57                   |
| 40 05 23 23-0340 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 313.30<br>76.59           | 127.60                  |
| 40 05 23 23-0341 EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 413.14<br>98.83           | 164.66                  |
| 40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                   | 566.11<br>122.54          | 204.19                  |
| <b>40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees (40 05 23 23-0312)</b>   |                           |                         |
| 40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                              | 80.32<br>22.42            | 37.37                   |
| 40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                              | 107.08<br>29.65           | 49.48                   |
| 40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                                | 132.90<br>36.76           | 61.28                   |
| 40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee .....<br><i>For Work In Restricted Working Space, Add</i>                           | 190.84<br>51.06           | 85.17                   |
| 40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee .....<br><i>For Work In Restricted Working Space, Add</i>                           | 216.52<br>57.44           | 95.73                   |
| 40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                                | 287.55<br>76.59           | 127.60                  |
| 40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee .....<br><i>For Work In Restricted Working Space, Add</i>                           | 444.51<br>110.73          | 184.58                  |
| 40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                                | 601.76<br>148.24          | 247.07                  |
| 40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee.....<br><i>For Work In Restricted Working Space, Add</i>                                | 788.07<br>183.81          | 306.36                  |
| <b>40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)</b>   |                           |                         |
| 40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                         | 70.28<br>19.55            | 32.63                   |
| 40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                           | 91.23<br>24.84            | 41.36                   |
| 40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                       | 122.34<br>34.04           | 56.68                   |
| 40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                       | 147.91<br>39.96           | 66.64                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                     | 186.03<br>48.37           | 80.57                   |
| 40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                 | 309.10<br>76.59           | 127.60                  |
| 40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                     | 402.63<br>98.83           | 164.66                  |
| 40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer .....<br><i>For Work In Restricted Working Space, Add</i>                     | 529.87<br>122.54          | 204.19                  |
| <b>40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)</b>   |                           |                         |
| 40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                       | 27.53<br>7.41             | 12.41                   |
| 40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                       | 36.16<br>9.88             | 16.54                   |
| 40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 45.79<br>12.25            | 20.37                   |
| 40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                     | 67.55<br>17.34            | 28.95                   |
| 40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                     | 77.67<br>19.55            | 32.63                   |
| 40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 98.79<br>24.84            | 41.36                   |
| 40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                     | 150.90<br>36.76           | 61.28                   |
| 40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 198.38<br>48.37           | 80.57                   |
| 40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 268.76<br>61.27           | 102.17                  |
| <b>40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)</b>   |                           |                         |
| 40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                     | 85.36<br>22.42            | 37.37                   |
| 40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                     | 115.52<br>29.65           | 49.48                   |
| 40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                       | 142.89<br>36.76           | 61.28                   |
| 40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                   | 205.41<br>51.06           | 85.17                   |
| 40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                   | 231.43<br>57.44           | 95.73                   |
| 40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                       | 302.97<br>76.59           | 127.60                  |
| 40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                   | 505.43<br>114.89          | 191.47                  |
| 40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                       | 664.45<br>148.25          | 247.07                  |
| 40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union .....<br><i>For Work In Restricted Working Space, Add</i>                       | 698.66<br>122.56          | 204.26                  |
| <b>40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)</b>  |                           |                         |
| 40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                  | 54.45<br>14.82            | 24.67                   |
| 40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                  | 70.46<br>19.55            | 32.63                   |
| 40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                    | 90.29<br>24.84            | 41.36                   |
| 40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                | 125.38<br>34.04           | 56.68                   |
| 40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                | 147.36<br>39.96           | 66.64                   |
| 40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                    | 181.17<br>48.37           | 80.57                   |
| 40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                | 302.11<br>76.59           | 127.60                  |
| 40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                    | 389.90<br>98.83           | 164.66                  |
| 40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling .....<br><i>For Work In Restricted Working Space, Add</i>                    | 501.89<br>122.54          | 204.19                  |
| <b>40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>  |                           |                         |
| <b>40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)</b>   |                           |                         |
| 40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 24.88<br>3.85             | 6.42                    |
| 40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 29.63<br>4.71             | 7.85                    |
| 40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>   | 39.16<br>5.52             | 9.27                    |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....        | 47.82                     | 11.56                   |
| <i>For Work In Restricted Working Space, Add</i>   | 6.90                      |                         |
| 40 05 23 23-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....        | 53.22                     | 12.99                   |
| <i>For Work In Restricted Working Space, Add</i>   | 7.78                      |                         |
| 40 05 23 23-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....            | 65.83                     | 16.12                   |
| <i>For Work In Restricted Working Space, Add</i>   | 9.64                      |                         |
| 40 05 23 23-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....        | 78.63                     | 18.41                   |
| <i>For Work In Restricted Working Space, Add</i>   | 11.02                     |                         |
| 40 05 23 23-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....            | 92.71                     | 20.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 12.41                     |                         |
| 40 05 23 23-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....            | 116.31                    | 24.54                   |
| <i>For Work In Restricted Working Space, Add</i>   | 14.68                     |                         |
| 40 05 23 23-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....            | 169.44                    | 32.24                   |
| <i>For Work In Restricted Working Space, Add</i>   | 19.28                     |                         |
| 40 05 23 23-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....            | 272.06                    | 51.83                   |
| <i>For Work In Restricted Working Space, Add</i>   | 33.31                     |                         |
| 40 05 23 23-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 348.89                    | 56.99                   |
| <i>For Work In Restricted Working Space, Add</i>   | 36.64                     |                         |
| 40 05 23 23-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 418.33                    | 63.37                   |
| <i>For Work In Restricted Working Space, Add</i>   | 40.71                     |                         |
| 40 05 23 23-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 515.69                    | 71.23                   |
| <i>For Work In Restricted Working Space, Add</i>   | 45.80                     |                         |
| 40 05 23 23-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 567.36                    | 81.41                   |
| <i>For Work In Restricted Working Space, Add</i>   | 52.34                     |                         |
| 40 05 23 23-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 635.11                    | 94.98                   |
| <i>For Work In Restricted Working Space, Add</i>   | 61.06                     |                         |
| 40 05 23 23-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 884.49                    | 113.98                  |
| <i>For Work In Restricted Working Space, Add</i>   | 73.27                     |                         |
| 40 05 23 23-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....           | 1,154.46                  | 142.48                  |
| <i>For Work In Restricted Working Space, Add</i>   | 91.59                     |                         |
| <b>40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)</b> |                           |                         |
| 40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                      | 168.10                    | 73.19                   |
| <i>For Work In Restricted Working Space, Add</i>   | 48.79                     |                         |
| 40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                      | 178.11                    | 77.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 51.80                     |                         |
| 40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                        | 196.17                    | 85.39                   |
| <i>For Work In Restricted Working Space, Add</i>   | 56.92                     |                         |
| 40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                    | 214.04                    | 93.06                   |
| <i>For Work In Restricted Working Space, Add</i>   | 62.04                     |                         |
| 40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                    | 236.41                    | 102.76                  |
| <i>For Work In Restricted Working Space, Add</i>   | 68.51                     |                         |
| 40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                        | 264.02                    | 114.33                  |
| <i>For Work In Restricted Working Space, Add</i>   | 76.22                     |                         |
| 40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                    | 342.20                    | 146.32                  |
| <i>For Work In Restricted Working Space, Add</i>   | 97.55                     |                         |
| 40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                        | 401.35                    | 171.50                  |
| <i>For Work In Restricted Working Space, Add</i>   | 114.33                    |                         |
| 40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                        | 489.25                    | 205.26                  |
| <i>For Work In Restricted Working Space, Add</i>   | 136.84                    |                         |
| 40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                        | 658.54                    | 256.41                  |
| <i>For Work In Restricted Working Space, Add</i>   | 170.95                    |                         |
| 40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                        | 1,035.10                  | 392.53                  |
| <i>For Work In Restricted Working Space, Add</i>   | 261.69                    |                         |
| 40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 1,512.29                  | 523.36                  |
| <i>For Work In Restricted Working Space, Add</i>   | 348.91                    |                         |
| 40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 2,282.66                  | 785.05                  |
| <i>For Work In Restricted Working Space, Add</i>   | 523.37                    |                         |
| 40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 2,695.76                  | 915.90                  |
| <i>For Work In Restricted Working Space, Add</i>   | 610.60                    |                         |
| 40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 3,158.04                  | 1,044.75                |
| <i>For Work In Restricted Working Space, Add</i>   | 696.50                    |                         |
| 40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 3,988.05                  | 1,308.43                |
| <i>For Work In Restricted Working Space, Add</i>   | 872.28                    |                         |
| 40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 5,562.13                  | 1,831.80                |
| <i>For Work In Restricted Working Space, Add</i>   | 1,221.20                  |                         |
| 40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....                       | 7,981.23                  | 2,616.85                |
| <i>For Work In Restricted Working Space, Add</i>   | 1,744.56                  |                         |
| <b>40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)</b> |                           |                         |
| 40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....                      | 169.71                    | 73.19                   |
| <i>For Work In Restricted Working Space, Add</i>   | 48.79                     |                         |
| 40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....                      | 179.72                    | 77.69                   |
| <i>For Work In Restricted Working Space, Add</i>   | 51.80                     |                         |
| 40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....                        | 198.10                    | 85.39                   |
| <i>For Work In Restricted Working Space, Add</i>   | 56.92                     |                         |
| 40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....                    | 216.61                    | 93.06                   |
| <i>For Work In Restricted Working Space, Add</i>   | 62.04                     |                         |
| 40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....                    | 236.73                    | 102.76                  |
| <i>For Work In Restricted Working Space, Add</i>   | 68.51                     |                         |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>      | 264.02<br>76.22           | 114.33                  |
| 40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i> | 340.59<br>97.55           | 146.32                  |
| 40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>      | 398.46<br>114.33          | 171.50                  |
| 40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>      | 483.78<br>136.84          | 205.26                  |
| 40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>      | 629.93<br>170.95          | 256.41                  |
| 40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>      | 979.91<br>261.69          | 392.53                  |
| 40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,414.05<br>348.91        | 523.36                  |
| 40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 2,127.12<br>523.37        | 785.05                  |
| 40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 2,504.86<br>610.60        | 915.90                  |
| 40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 2,922.42<br>696.50        | 1,044.75                |
| 40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 3,678.64<br>872.28        | 1,308.43                |
| 40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 5,144.62<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 7,388.96<br>1,744.56      | 2,616.85                |
| <b>40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee</b> <small>(40 05 23 23-0392)</small>                               |                           |                         |
| 40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>               | 224.41<br>62.02           | 93.03                   |
| 40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>               | 271.46<br>76.13           | 114.21                  |
| 40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                 | 302.82<br>85.54           | 128.31                  |
| 40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 344.80<br>97.55           | 146.32                  |
| 40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 366.72<br>104.71          | 157.07                  |
| 40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                 | 399.67<br>114.21          | 171.30                  |
| 40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 509.66<br>136.84          | 205.26                  |
| 40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                 | 606.36<br>171.49          | 257.24                  |
| 40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                 | 693.63<br>192.47          | 288.71                  |
| 40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                  | 993.96<br>256.63          | 384.93                  |
| 40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,489.73<br>348.91        | 523.36                  |
| 40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 2,282.66<br>523.37        | 785.05                  |
| 40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 2,928.14<br>654.21        | 981.31                  |
| 40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                | 3,595.15<br>786.18        | 1,179.27                |
| 40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 4,357.43<br>959.05        | 1,438.58                |
| 40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee .....<br><i>For Work In Restricted Working Space, Add</i>                | 5,544.98<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 7,405.49<br>1,606.84      | 2,410.26                |
| 40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 11,114.30<br>2,442.39     | 3,663.59                |
| <b>40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees</b> <small>(40 05 23 23-0392)</small>                     |                           |                         |
| 40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>       | 204.22<br>51.82           | 77.72                   |
| 40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>         | 243.15<br>63.50           | 95.24                   |
| 40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 295.32<br>71.34           | 107.01                  |
| 40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 310.64<br>81.33           | 121.99                  |
| 40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>         | 326.99<br>87.39           | 131.08                  |
| 40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 414.23<br>95.24           | 142.86                  |
| 40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>         | 489.19<br>114.16          | 171.23                  |
| 40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>         | 604.19<br>142.68          | 214.03                  |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 780.67<br>163.03          | 244.55                  |
| 40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 1,354.55<br>218.07        | 327.10                  |
| 40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 2,207.54<br>290.76        | 436.14                  |
| 40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 3,161.86<br>436.14        | 654.21                  |
| 40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 3,834.24<br>523.97        | 785.96                  |
| 40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 4,745.06<br>639.15        | 958.72                  |
| 40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 6,123.28<br>814.13        | 1,221.19                |
| 40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 8,676.59<br>1,071.23      | 1,606.84                |
| 40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 13,554.72<br>1,626.82     | 2,440.22                |
| <b>40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)</b>   |                           |                         |
| 40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 168.00<br>47.12           | 70.68                   |
| 40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 184.66<br>51.35           | 77.02                   |
| 40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 204.70<br>56.92           | 85.39                   |
| 40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 218.68<br>62.04           | 93.06                   |
| 40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 238.98<br>68.51           | 102.76                  |
| 40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 316.87<br>85.61           | 128.42                  |
| 40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 358.63<br>97.46           | 146.20                  |
| 40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 419.33<br>114.21          | 171.30                  |
| 40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 539.94<br>145.40          | 218.09                  |
| 40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 786.63<br>209.35          | 314.03                  |
| 40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 999.00<br>261.69          | 392.53                  |
| 40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,342.53<br>348.91        | 523.36                  |
| 40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,899.80<br>457.95        | 686.93                  |
| 40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,216.63<br>521.88        | 782.81                  |
| 40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,733.04<br>654.21        | 981.31                  |
| 40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,820.08<br>872.28        | 1,308.43                |
| 40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,526.66<br>1,308.43      | 1,962.64                |
| 40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 198.22<br>47.12           | 70.68                   |
| 40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 206.84<br>51.35           | 77.02                   |
| 40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 219.90<br>56.92           | 85.39                   |
| 40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 246.33<br>62.04           | 93.06                   |
| 40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 258.91<br>68.51           | 102.76                  |
| 40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>  | 338.73<br>85.61           | 128.42                  |
| 40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 380.17<br>97.46           | 146.20                  |
| 40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 435.99<br>114.21          | 171.30                  |
| 40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 600.05<br>145.40          | 218.09                  |
| 40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 915.49<br>209.35          | 314.03                  |
| 40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,250.35<br>261.69        | 392.53                  |
| 40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,574.77<br>348.91        | 523.36                  |
| 40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 2,435.57<br>457.95        | 686.93                  |
| 40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 2,830.54<br>521.88        | 782.81                  |



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|---|-----------------|
| <b>Process Interconnections</b>                         | <b>40</b>       |
| <b>Common Work Results For Process Interconnections</b> | <b>40 05</b>    |
| <b>Stainless Steel Process Pipe and Tubing</b>          | <b>40 05 23</b> |

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| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>               | 3,482.29<br>654.21        | 981.31                  |
| 40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>               | 5,020.72<br>872.28        | 1,308.43                |
| 40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>               | 7,117.89<br>1,308.43      | 1,962.64                |
| <b>40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)</b>   |                           |                         |
| 40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                           | 91.29<br>24.40            | 36.60                   |
| 40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                           | 99.82<br>25.90            | 38.84                   |
| 40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                             | 109.66<br>28.46           | 42.69                   |
| 40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 120.60<br>31.02           | 46.53                   |
| 40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 129.94<br>34.26           | 51.38                   |
| 40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                             | 140.85<br>38.11           | 57.16                   |
| 40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                         | 182.52<br>48.78           | 73.16                   |
| 40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                             | 207.60<br>57.17           | 85.75                   |
| 40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                             | 249.94<br>68.42           | 102.64                  |
| 40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                             | 321.05<br>85.61           | 128.42                  |
| 40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                             | 500.37<br>130.84          | 196.26                  |
| 40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 666.38<br>174.46          | 261.69                  |
| 40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 982.87<br>261.69          | 392.52                  |
| 40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 1,153.19<br>305.30        | 457.94                  |
| 40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 1,335.62<br>348.25        | 522.37                  |
| 40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 1,685.98<br>436.14        | 654.21                  |
| 40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 2,330.52<br>610.60        | 915.90                  |
| 40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 3,427.76<br>872.28        | 1,308.42                |
| <b>40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>  |                           |                         |
| <b>40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)</b>   |                           |                         |
| 40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>   | 27.83<br>3.85             | 6.42                    |
| 40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>   | 33.82<br>4.71             | 7.85                    |
| 40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 41.42<br>5.52             | 9.27                    |
| 40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 51.77<br>6.90             | 11.42                   |
| 40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 59.63<br>7.78             | 12.84                   |
| 40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 76.39<br>9.64             | 16.41                   |
| 40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 94.74<br>11.02            | 18.55                   |
| 40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 92.42<br>12.41            | 20.69                   |
| 40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 152.22<br>14.68           | 24.25                   |
| 40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 236.81<br>19.28           | 32.10                   |
| 40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 406.81<br>33.31           | 51.56                   |
| 40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 516.51<br>36.64           | 56.99                   |
| 40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 645.11<br>40.71           | 63.09                   |
| <b>40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0541)</b>   |                           |                         |
| 40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>                | 169.39<br>48.79           | 73.19                   |
| 40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>                | 179.40<br>51.80           | 77.69                   |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 197.13<br>56.92           | 85.39                   |
| 40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 214.74<br>62.04           | 93.06                   |
| 40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 237.05<br>68.51           | 102.76                  |
| 40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 266.28<br>76.22           | 114.33                  |
| 40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 350.55<br>97.55           | 146.32                  |
| 40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 413.57<br>114.33          | 171.50                  |
| 40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 509.82<br>136.84          | 205.26                  |
| 40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 790.01<br>170.95          | 256.41                  |
| 40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,214.25<br>261.69        | 392.53                  |
| 40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,875.77<br>348.91        | 523.36                  |
| 40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,754.10<br>523.37        | 785.05                  |
| 40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,267.69<br>610.60        | 915.90                  |
| 40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,892.76<br>696.50        | 1,044.75                |
| 40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,008.93<br>872.28        | 1,308.43                |
| 40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 6,822.17<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 9,778.88<br>1,744.56      | 2,616.85                |
| <b>40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0541)</b>                                |                           |                         |
| 40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>   | 171.64<br>48.79           | 73.19                   |
| 40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>   | 181.65<br>51.80           | 77.69                   |
| 40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 198.74<br>56.92           | 85.39                   |
| 40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 216.37<br>62.04           | 93.06                   |
| 40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 238.66<br>68.51           | 102.76                  |
| 40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 266.62<br>76.22           | 114.33                  |
| 40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 350.55<br>97.55           | 146.32                  |
| 40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 404.57<br>114.33          | 171.50                  |
| 40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 514.64<br>136.84          | 205.26                  |
| 40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 680.40<br>170.95          | 256.41                  |
| 40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,099.33<br>261.69        | 392.53                  |
| 40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,588.68<br>348.91        | 523.36                  |
| 40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,330.58<br>523.37        | 785.05                  |
| 40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,648.34<br>610.60        | 915.90                  |
| 40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,155.34<br>696.50        | 1,044.75                |
| 40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,980.15<br>872.28        | 1,308.43                |
| 40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,433.99<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 7,880.29<br>1,744.56      | 2,616.85                |
| <b>40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)</b>  |                           |                         |
| 40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>               | 225.70<br>62.02           | 93.03                   |
| 40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>               | 272.75<br>76.13           | 114.21                  |
| 40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 304.11<br>85.54           | 128.31                  |
| 40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 348.07<br>97.55           | 146.32                  |



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|--|----------|
| Process Interconnections                         | 40       |
| Common Work Results For Process Interconnections | 40 05    |
| Stainless Steel Process Pipe and Tubing          | 40 05 23 |

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| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 368.01<br>104.71          | 157.07                  |
| 40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                    | 401.27<br>114.21          | 171.30                  |
| 40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 514.00<br>136.84          | 205.26                  |
| 40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                    | 613.11<br>171.49          | 257.24                  |
| 40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                    | 701.03<br>192.47          | 288.71                  |
| 40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                    | 1,045.07<br>256.63        | 384.93                  |
| 40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                    | 1,641.43<br>348.91        | 523.36                  |
| 40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 2,748.22<br>523.37        | 785.05                  |
| 40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 3,419.03<br>654.21        | 981.31                  |
| 40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 4,584.31<br>786.18        | 1,179.27                |
| 40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 5,801.53<br>959.05        | 1,438.58                |
| 40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 7,505.72<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 9,705.40<br>1,606.84      | 2,410.26                |
| 40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                   | 14,849.62<br>2,442.39     | 3,663.59                |
| <b>40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees</b> <small>(40 05 23 23-0541)</small>                       |                           |                         |
| 40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>         | 208.40<br>51.82           | 77.72                   |
| 40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 247.33<br>63.50           | 95.24                   |
| 40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>       | 315.42<br>71.34           | 107.01                  |
| 40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>       | 316.75<br>81.33           | 121.99                  |
| 40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 326.99<br>87.39           | 131.08                  |
| 40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>       | 393.68<br>95.24           | 142.86                  |
| 40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 443.86<br>114.16          | 171.23                  |
| 40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 580.40<br>142.68          | 214.03                  |
| 40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 784.52<br>163.03          | 244.55                  |
| 40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>           | 1,218.12<br>218.07        | 327.10                  |
| 40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 2,250.23<br>290.76        | 436.14                  |
| 40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 3,247.26<br>436.14        | 654.21                  |
| 40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 3,714.41<br>523.97        | 785.96                  |
| 40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 4,594.99<br>639.15        | 958.72                  |
| 40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 5,927.58<br>814.13        | 1,221.19                |
| 40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 8,383.52<br>1,071.23      | 1,606.84                |
| 40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 13,087.95<br>1,626.82     | 2,440.22                |
| <b>40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers</b> <small>(40 05 23 23-0541)</small>                            |                           |                         |
| 40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 171.21<br>47.12           | 70.68                   |
| 40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 187.88<br>51.35           | 77.02                   |
| 40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 204.94<br>56.92           | 85.39                   |
| 40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 221.90<br>62.04           | 93.06                   |
| 40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 240.91<br>68.51           | 102.76                  |
| 40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 316.87<br>85.61           | 128.42                  |
| 40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 347.06<br>97.46           | 146.20                  |
| 40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 402.88<br>114.21          | 171.30                  |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 542.51<br>145.40          | 218.09                  |
| 40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 841.22<br>209.35          | 314.03                  |
| 40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,092.74<br>261.69        | 392.53                  |
| 40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,426.18<br>348.91        | 523.36                  |
| 40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 2,087.55<br>457.95        | 686.93                  |
| 40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 2,452.65<br>521.88        | 782.81                  |
| 40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 3,210.99<br>654.21        | 981.31                  |
| 40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 4,383.86<br>872.28        | 1,308.43                |
| 40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 6,110.51<br>1,308.43      | 1,962.64                |
| 40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 199.52<br>47.12           | 70.68                   |
| 40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 213.59<br>51.35           | 77.02                   |
| 40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 243.04<br>56.92           | 85.39                   |
| 40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 258.22<br>62.04           | 93.06                   |
| 40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 277.23<br>68.51           | 102.76                  |
| 40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i> | 338.73<br>85.61           | 128.42                  |
| 40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 420.03<br>97.46           | 146.20                  |
| 40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 462.99<br>114.21          | 171.30                  |
| 40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 626.73<br>145.40          | 218.09                  |
| 40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 918.28<br>209.35          | 314.03                  |
| 40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,247.92<br>261.69        | 392.53                  |
| 40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,701.14<br>348.91        | 523.36                  |
| 40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,761.50<br>457.95        | 686.93                  |
| 40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,132.84<br>521.88        | 782.81                  |
| 40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 4,090.96<br>654.21        | 981.31                  |
| 40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,321.11<br>872.28        | 1,308.43                |
| 40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>    | 8,449.31<br>1,308.43      | 1,962.64                |
| <b>40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)</b>  |                           |                         |
| 40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                 | 92.26<br>24.40            | 36.60                   |
| 40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                 | 98.86<br>25.90            | 38.84                   |
| 40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                   | 110.62<br>28.46           | 42.69                   |
| 40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>               | 124.90<br>31.02           | 46.53                   |
| 40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>               | 134.12<br>34.26           | 51.38                   |
| 40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                   | 140.53<br>38.11           | 57.16                   |
| 40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>               | 180.36<br>48.78           | 73.16                   |
| 40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                   | 208.88<br>57.17           | 85.75                   |
| 40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                   | 253.80<br>68.42           | 102.64                  |
| 40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                   | 344.84<br>85.61           | 128.42                  |
| 40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                   | 538.56<br>130.84          | 196.26                  |
| 40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                  | 720.38<br>174.46          | 261.69                  |
| 40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                  | 1,085.79<br>261.69        | 392.52                  |
| 40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>                  | 1,247.47<br>305.30        | 457.94                  |



|   |           |
|---|-----------|
| <b>Process Interconnections</b>                         | <b>40</b> |
| <b>Common Work Results For Process Interconnections</b> |           |
| <b>40 05</b>  | <b>40</b> |
| <b>Stainless Steel Process Pipe and Tubing 40 05 23</b> |           |

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 1,465.32<br>348.25        | 522.37                  |
| 40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 1,839.70<br>436.14        | 654.21                  |
| 40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 2,535.51<br>610.60        | 915.90                  |
| 40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                            | 3,770.49<br>872.28        | 1,308.42                |
| <b>40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>  |                           |                         |
| <b>40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)</b>   |                           |                         |
| 40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>   | 28.64<br>3.85             | 6.42                    |
| 40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>   | 33.98<br>4.71             | 7.85                    |
| 40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 45.64<br>5.52             | 9.27                    |
| 40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 55.57<br>6.90             | 11.56                   |
| 40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 61.74<br>7.78             | 12.99                   |
| 40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 76.35<br>9.64             | 16.12                   |
| 40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i> | 91.72<br>11.02            | 18.41                   |
| 40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 108.75<br>12.41           | 20.69                   |
| 40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 137.36<br>14.68           | 24.54                   |
| 40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 202.28<br>19.28           | 32.24                   |
| 40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>     | 322.35<br>33.31           | 51.83                   |
| 40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 419.71<br>36.64           | 56.99                   |
| 40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 506.60<br>40.71           | 63.37                   |
| 40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 629.07<br>45.80           | 71.23                   |
| 40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 690.06<br>52.34           | 81.41                   |
| 40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 769.88<br>61.06           | 94.98                   |
| 40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 1,084.44<br>73.27         | 113.98                  |
| 40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting .....<br><i>For Work In Restricted Working Space, Add</i>    | 1,419.65<br>91.59         | 142.48                  |
| <b>40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0685)</b>   |                           |                         |
| 40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 169.71<br>48.79           | 73.19                   |
| 40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>               | 179.72<br>51.80           | 77.69                   |
| 40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 198.10<br>56.92           | 85.39                   |
| 40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>             | 216.84<br>62.04           | 93.06                   |
| 40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>             | 238.33<br>68.51           | 102.76                  |
| 40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 266.28<br>76.22           | 114.33                  |
| 40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>             | 346.38<br>97.55           | 146.32                  |
| 40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 407.46<br>114.33          | 171.50                  |
| 40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 498.57<br>136.84          | 205.26                  |
| 40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 682.97<br>170.95          | 256.41                  |
| 40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,080.59<br>261.69        | 392.53                  |
| 40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 1,617.46<br>348.91        | 523.36                  |
| 40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 2,426.05<br>523.37        | 785.05                  |
| 40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 2,830.69<br>610.60        | 915.90                  |
| 40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....<br><i>For Work In Restricted Working Space, Add</i>                | 3,371.46<br>696.50        | 1,044.75                |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 4,243.97<br>872.28        | 1,308.43                |
| 40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,927.70<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 8,524.44<br>1,744.56      | 2,616.85                |
| <b>40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0685)</b>                                |                           |                         |
| 40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>   | 171.64<br>48.79           | 73.19                   |
| 40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>   | 181.65<br>51.80           | 77.69                   |
| 40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 200.03<br>56.92           | 85.39                   |
| 40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 219.41<br>62.04           | 93.06                   |
| 40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 238.33<br>68.51           | 102.76                  |
| 40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 266.28<br>76.22           | 114.33                  |
| 40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 344.45<br>97.55           | 146.32                  |
| 40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 404.57<br>114.33          | 171.50                  |
| 40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 491.82<br>136.84          | 205.26                  |
| 40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 643.11<br>170.95          | 256.41                  |
| 40 05 23 23-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,009.07<br>261.69        | 392.53                  |
| 40 05 23 23-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,588.68<br>348.91        | 523.36                  |
| 40 05 23 23-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,330.58<br>523.37        | 785.05                  |
| 40 05 23 23-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,741.23<br>610.60        | 915.90                  |
| 40 05 23 23-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,207.43<br>696.50        | 1,044.75                |
| 40 05 23 23-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 4,050.81<br>872.28        | 1,308.43                |
| 40 05 23 23-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,754.15<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i>    | 8,293.29<br>1,744.56      | 2,616.85                |
| <b>40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)</b>  |                           |                         |
| 40 05 23 23-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>               | 228.59<br>62.02           | 93.03                   |
| 40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>               | 275.64<br>76.13           | 114.21                  |
| 40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 307.00<br>85.54           | 128.31                  |
| 40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 352.51<br>97.55           | 146.32                  |
| 40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 372.83<br>104.71          | 157.07                  |
| 40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 405.13<br>114.21          | 171.30                  |
| 40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 492.14<br>136.84          | 205.26                  |
| 40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 616.96<br>171.49          | 257.24                  |
| 40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 708.10<br>192.47          | 288.71                  |
| 40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,035.43<br>256.63        | 384.93                  |
| 40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,598.72<br>348.91        | 523.36                  |
| 40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 2,492.00<br>523.37        | 785.05                  |
| 40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 3,205.51<br>654.21        | 981.31                  |
| 40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 4,109.46<br>786.18        | 1,179.27                |
| 40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 4,855.50<br>959.05        | 1,438.58                |
| 40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 6,171.66<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>                | 8,319.36<br>1,606.84      | 2,410.26                |



|   |           |    |
|---|-----------|----|
| <b>Process Interconnections</b>                         | <b>40</b> | 40 |
| <b>Common Work Results For Process Interconnections</b> |           |    |
| <b>40 05</b>  |           |    |

Stainless Steel Process Pipe and Tubing 40 05 23

| MINOR   | CSI     | UOM | DESCRIPTION  | TOTAL DIRECT UNIT COST | DEMOLITION UNIT COST |
|---|---------|-----|--|------------------------|----------------------|
| 40 05 23  | 23-0761 | EA  | 24", Type 316, Schedule 10 Stainless Steel Tee<br><i>For Work In Restricted Working Space, Add</i>                   | 11,915.82<br>2,442.39  | 3,663.59             |
| <b>40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees <small>(40 05 23 23-0685)</small></b> |         |     |  |                        |                      |
| 40 05 23  | 23-0763 | EA  | 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>         | 214.19<br>51.82        | 77.72                |
| 40 05 23  | 23-0764 | EA  | 1", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>           | 255.05<br>63.50        | 95.24                |
| 40 05 23  | 23-0765 | EA  | 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>       | 309.81<br>71.34        | 107.01               |
| 40 05 23  | 23-0766 | EA  | 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>       | 320.60<br>81.33        | 121.99               |
| 40 05 23  | 23-0767 | EA  | 2", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>           | 340.81<br>87.39        | 131.08               |
| 40 05 23  | 23-0768 | EA  | 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>       | 456.01<br>95.24        | 142.86               |
| 40 05 23  | 23-0769 | EA  | 3", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>           | 451.58<br>114.16       | 171.23               |
| 40 05 23  | 23-0770 | EA  | 4", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>           | 604.19<br>142.68       | 214.03               |
| 40 05 23  | 23-0771 | EA  | 6", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>           | 840.14<br>163.03       | 244.55               |
| 40 05 23  | 23-0772 | EA  | 8", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>           | 1,527.45<br>218.07     | 327.10               |
| 40 05 23  | 23-0773 | EA  | 10", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 2,784.18<br>290.76     | 436.14               |
| 40 05 23  | 23-0774 | EA  | 12", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 3,653.09<br>436.14     | 654.21               |
| 40 05 23  | 23-0775 | EA  | 14", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 4,159.69<br>523.97     | 785.96               |
| 40 05 23  | 23-0776 | EA  | 16", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 5,152.66<br>639.15     | 958.72               |
| 40 05 23  | 23-0777 | EA  | 18", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 6,654.82<br>814.13     | 1,221.19             |
| 40 05 23  | 23-0778 | EA  | 20", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 9,472.57<br>1,071.23   | 1,606.84             |
| 40 05 23  | 23-0779 | EA  | 24", Type 316, Schedule 10 Stainless Steel Reducing Tee<br><i>For Work In Restricted Working Space, Add</i>          | 14,822.46<br>1,626.82  | 2,440.22             |
| <b>40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers <small>(40 05 23 23-0685)</small></b>      |         |     |  |                        |                      |
| 40 05 23  | 23-0781 | EA  | 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>   | 170.89<br>47.12        | 70.68                |
| 40 05 23  | 23-0782 | EA  | 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>     | 188.20<br>51.35        | 77.02                |
| 40 05 23  | 23-0783 | EA  | 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i> | 209.84<br>56.92        | 85.39                |
| 40 05 23  | 23-0784 | EA  | 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i> | 220.93<br>62.04        | 93.06                |
| 40 05 23  | 23-0785 | EA  | 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>     | 240.91<br>68.51        | 102.76               |
| 40 05 23  | 23-0786 | EA  | 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i> | 315.53<br>85.61        | 128.42               |
| 40 05 23  | 23-0787 | EA  | 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>     | 366.35<br>97.46        | 146.20               |
| 40 05 23  | 23-0788 | EA  | 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>     | 405.17<br>114.21       | 171.30               |
| 40 05 23  | 23-0789 | EA  | 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>     | 555.69<br>145.40       | 218.09               |
| 40 05 23  | 23-0790 | EA  | 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>     | 803.10<br>209.35       | 314.03               |
| 40 05 23  | 23-0791 | EA  | 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 1,037.55<br>261.69     | 392.53               |
| 40 05 23  | 23-0792 | EA  | 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 1,388.01<br>348.91     | 523.36               |
| 40 05 23  | 23-0793 | EA  | 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 1,962.44<br>457.95     | 686.93               |
| 40 05 23  | 23-0794 | EA  | 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 2,275.95<br>521.88     | 782.81               |
| 40 05 23  | 23-0795 | EA  | 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 2,820.24<br>654.21     | 981.31               |
| 40 05 23  | 23-0796 | EA  | 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 3,954.81<br>872.28     | 1,308.43             |
| 40 05 23  | 23-0797 | EA  | 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 5,765.53<br>1,308.43   | 1,962.64             |
| 40 05 23  | 23-0798 | EA  | 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>    | 195.88<br>47.12        | 70.68                |
| 40 05 23  | 23-0799 | EA  | 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>      | 217.87<br>51.35        | 77.02                |
| 40 05 23  | 23-0800 | EA  | 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>  | 245.03<br>56.92        | 85.39                |
| 40 05 23  | 23-0801 | EA  | 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>  | 262.08<br>62.04        | 93.06                |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>               | 266.30<br>68.51           | 102.76                  |
| 40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>           | 350.62<br>85.61           | 128.42                  |
| 40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>               | 402.35<br>97.46           | 146.20                  |
| 40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>               | 453.99<br>114.21          | 171.30                  |
| 40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>               | 639.59<br>145.40          | 218.09                  |
| 40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>               | 984.92<br>209.35          | 314.03                  |
| 40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 1,350.68<br>261.69        | 392.53                  |
| 40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 1,712.93<br>348.91        | 523.36                  |
| 40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 2,578.62<br>457.95        | 686.93                  |
| 40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 3,020.69<br>521.88        | 782.81                  |
| 40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 3,745.52<br>654.21        | 981.31                  |
| 40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 5,434.63<br>872.28        | 1,308.43                |
| 40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer<br><i>For Work In Restricted Working Space, Add</i>              | 7,522.93<br>1,308.43      | 1,962.64                |
| <b>40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)</b>   |                           |                         |
| 40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                           | 95.47<br>24.40            | 36.60                   |
| 40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                           | 105.29<br>25.90           | 38.84                   |
| 40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 115.44<br>28.46           | 42.69                   |
| 40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                         | 126.18<br>31.02           | 46.53                   |
| 40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                         | 136.69<br>34.26           | 51.38                   |
| 40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 144.71<br>38.11           | 57.16                   |
| 40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                         | 181.29<br>48.78           | 73.16                   |
| 40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 214.35<br>57.17           | 85.75                   |
| 40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 256.69<br>68.42           | 102.64                  |
| 40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 332.94<br>85.61           | 128.42                  |
| 40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                             | 521.54<br>130.84          | 196.26                  |
| 40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 692.10<br>174.46          | 261.69                  |
| 40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 1,020.48<br>261.69        | 392.52                  |
| 40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 1,187.11<br>305.30        | 457.94                  |
| 40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 1,364.28<br>348.25        | 522.37                  |
| 40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 1,718.83<br>436.14        | 654.21                  |
| 40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 2,382.91<br>610.60        | 915.90                  |
| 40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap<br><i>For Work In Restricted Working Space, Add</i>                            | 3,589.04<br>872.28        | 1,308.42                |
| <b>40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>                                      |                           |                         |
| <b>40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)</b>   |                           |                         |
| 40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>   | 32.85<br>3.85             | 6.42                    |
| 40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>   | 39.88<br>4.71             | 7.85                    |
| 40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>     | 49.11<br>5.52             | 9.27                    |
| 40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i> | 61.39<br>6.90             | 11.42                   |
| 40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i> | 70.90<br>7.78             | 12.84                   |
| 40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>     | 91.19<br>9.64             | 16.41                   |
| 40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i> | 114.14<br>11.02           | 18.55                   |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>  | 109.51<br>12.41           | 20.69                   |
| 40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>  | 186.77<br>14.68           | 24.25                   |
| 40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>  | 294.53<br>19.28           | 32.10                   |
| 40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i>  | 505.76<br>33.31           | 51.56                   |
| 40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i> | 648.44<br>36.64           | 56.99                   |
| 40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting<br><i>For Work In Restricted Working Space, Add</i> | 815.51<br>40.71           | 63.09                   |
| <b>40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0834)</b>                                    |                           |                         |
| 40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>            | 171.32<br>48.79           | 73.19                   |
| 40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>            | 181.33<br>51.80           | 77.69                   |
| 40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 199.70<br>56.92           | 85.39                   |
| 40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>          | 217.54<br>62.04           | 93.06                   |
| 40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>          | 239.94<br>68.51           | 102.76                  |
| 40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 270.13<br>76.22           | 114.33                  |
| 40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>          | 358.27<br>97.55           | 146.32                  |
| 40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 424.17<br>114.33          | 171.50                  |
| 40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 535.22<br>136.84          | 205.26                  |
| 40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 811.55<br>170.95          | 256.41                  |
| 40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 1,326.71<br>261.69        | 392.53                  |
| 40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 2,155.57<br>348.91        | 523.36                  |
| 40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 3,076.98<br>523.37        | 785.05                  |
| 40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 3,445.08<br>610.60        | 915.90                  |
| 40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 4,173.56<br>696.50        | 1,044.75                |
| 40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 5,325.74<br>872.28        | 1,308.43                |
| 40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 7,200.06<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 10,445.01<br>1,744.56     | 2,616.85                |
| <b>40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0834)</b>                                    |                           |                         |
| 40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>            | 174.53<br>48.79           | 73.19                   |
| 40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>            | 184.54<br>51.80           | 77.69                   |
| 40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 201.63<br>56.92           | 85.39                   |
| 40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>          | 218.48<br>62.04           | 93.06                   |
| 40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>          | 241.87<br>68.51           | 102.76                  |
| 40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 270.13<br>76.22           | 114.33                  |
| 40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>          | 358.27<br>97.55           | 146.32                  |
| 40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 411.64<br>114.33          | 171.50                  |
| 40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 511.43<br>136.84          | 205.26                  |
| 40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 713.83<br>170.95          | 256.41                  |
| 40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>              | 1,154.54<br>261.69        | 392.53                  |
| 40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 1,758.78<br>348.91        | 523.36                  |
| 40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 2,545.81<br>523.37        | 785.05                  |
| 40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow<br><i>For Work In Restricted Working Space, Add</i>             | 2,895.33<br>610.60        | 915.90                  |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 3,271.64<br>696.50        | 1,044.75                |
| 40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 4,202.91<br>872.28        | 1,308.43                |
| 40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 5,718.94<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow.....<br><i>For Work In Restricted Working Space, Add</i> | 8,467.02<br>1,744.56      | 2,616.85                |
| <b>40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)</b>   |                           |                         |
| 40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>            | 230.52<br>62.02           | 93.03                   |
| 40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>            | 277.57<br>76.13           | 114.21                  |
| 40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 308.93<br>85.54           | 128.31                  |
| 40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 355.32<br>97.55           | 146.32                  |
| 40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 372.83<br>104.71          | 157.07                  |
| 40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 406.42<br>114.21          | 171.30                  |
| 40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>          | 503.60<br>136.84          | 205.26                  |
| 40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 623.07<br>171.49          | 257.24                  |
| 40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 718.71<br>192.47          | 288.71                  |
| 40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 1,110.97<br>256.63        | 384.93                  |
| 40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>              | 1,792.79<br>348.91        | 523.36                  |
| 40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 3,004.41<br>523.37        | 785.05                  |
| 40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 3,696.76<br>654.21        | 981.31                  |
| 40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 5,265.06<br>786.18        | 1,179.27                |
| 40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 6,520.76<br>959.05        | 1,438.58                |
| 40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 8,441.68<br>1,221.20      | 1,831.80                |
| 40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 10,971.48<br>1,606.84     | 2,410.26                |
| 40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee.....<br><i>For Work In Restricted Working Space, Add</i>             | 15,746.22<br>2,442.39     | 3,663.59                |
| <b>40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)</b>                                |                           |                         |
| 40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>   | 220.29<br>51.82           | 77.72                   |
| 40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 259.22<br>63.50           | 95.24                   |
| 40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i> | 335.53<br>71.34           | 107.01                  |
| 40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i> | 330.57<br>81.33           | 121.99                  |
| 40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 340.81<br>87.39           | 131.08                  |
| 40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i> | 457.94<br>95.24           | 142.86                  |
| 40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 465.40<br>114.16          | 171.23                  |
| 40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 618.01<br>142.68          | 214.03                  |
| 40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 848.81<br>163.03          | 244.55                  |
| 40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,356.64<br>218.07        | 327.10                  |
| 40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,826.89<br>290.76        | 436.14                  |
| 40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,738.49<br>436.14        | 654.21                  |
| 40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 4,253.40<br>523.97        | 785.96                  |
| 40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,270.02<br>639.15        | 958.72                  |
| 40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 6,807.86<br>814.13        | 1,221.19                |
| 40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 9,701.75<br>1,071.23      | 1,606.84                |
| 40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee.....<br><i>For Work In Restricted Working Space, Add</i>    | 15,187.47<br>1,626.82     | 2,440.22                |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers <small>(40 05 23 23-0834)</small></b>                             |                           |                         |
| 40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>   | 176.04<br>47.12           | 70.68                   |
| 40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>     | 193.34<br>51.35           | 77.02                   |
| 40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i> | 212.18<br>56.92           | 85.39                   |
| 40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i> | 226.72<br>62.04           | 93.06                   |
| 40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>     | 244.44<br>68.51           | 102.76                  |
| 40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i> | 326.84<br>85.61           | 128.42                  |
| 40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>     | 353.81<br>97.46           | 146.20                  |
| 40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>     | 409.63<br>114.21          | 171.30                  |
| 40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>     | 557.94<br>145.40          | 218.09                  |
| 40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>     | 870.37<br>209.35          | 314.03                  |
| 40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 1,164.26<br>261.69        | 392.53                  |
| 40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 1,478.96<br>348.91        | 523.36                  |
| 40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 2,135.69<br>457.95        | 686.93                  |
| 40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 2,460.33<br>521.88        | 782.81                  |
| 40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 3,280.79<br>654.21        | 981.31                  |
| 40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 4,447.45<br>872.28        | 1,308.43                |
| 40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer .....<br><i>For Work In Restricted Working Space, Add</i>    | 6,387.60<br>1,308.43      | 1,962.64                |
| 40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>     | 212.36<br>47.12           | 70.68                   |
| 40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>       | 226.45<br>51.35           | 77.02                   |
| 40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 261.74<br>56.92           | 85.39                   |
| 40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 272.04<br>62.04           | 93.06                   |
| 40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>       | 292.66<br>68.51           | 102.76                  |
| 40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>   | 350.62<br>85.61           | 128.42                  |
| 40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>       | 446.71<br>97.46           | 146.20                  |
| 40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>       | 489.35<br>114.21          | 171.30                  |
| 40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>       | 688.77<br>145.40          | 218.09                  |
| 40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>       | 968.27<br>209.35          | 314.03                  |
| 40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 1,379.49<br>261.69        | 392.53                  |
| 40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 1,909.44<br>348.91        | 523.36                  |
| 40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 2,858.93<br>457.95        | 686.93                  |
| 40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 3,292.94<br>521.88        | 782.81                  |
| 40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 4,418.98<br>654.21        | 981.31                  |
| 40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 5,685.79<br>872.28        | 1,308.43                |
| 40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....<br><i>For Work In Restricted Working Space, Add</i>      | 8,524.07<br>1,308.43      | 1,962.64                |
| <b>40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps <small>(40 05 23 23-0834)</small></b>                                 |                           |                         |
| 40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                  | 96.12<br>24.40            | 36.60                   |
| 40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                  | 104.96<br>25.90           | 38.84                   |
| 40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                    | 116.09<br>28.46           | 42.69                   |
| 40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 132.14<br>31.02           | 46.53                   |
| 40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap .....<br><i>For Work In Restricted Working Space, Add</i>                | 131.87<br>34.26           | 51.38                   |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST                | DEMOLITION<br>UNIT COST |
|---|--|-------------------------|
| 40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>  | 149.21<br>38.11                          | 57.16                   |
| 40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>  | 187.14<br>48.78                          | 73.16                   |
| 40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>  | 215.31<br>57.17                          | 85.75                   |
| 40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>  | 263.76<br>68.42                          | 102.64                  |
| 40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>  | 362.52<br>85.61                          | 128.42                  |
| 40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>  | 577.09<br>130.84                         | 196.26                  |
| 40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 773.85<br>174.46                         | 261.69                  |
| 40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,154.18<br>261.69                       | 392.52                  |
| 40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,316.67<br>305.30                       | 457.94                  |
| 40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,480.34<br>348.25                       | 522.37                  |
| 40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,888.76<br>436.14                       | 654.21                  |
| 40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 2,596.84<br>610.60                       | 915.90                  |
| 40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap.....<br><i>For Work In Restricted Working Space, Add</i>   | 4,005.66<br>872.28                       | 1,308.42                |
| <b>40 05 23 23-0978 Valves</b> <small>(40 05 23 23-0231)</small>  |  |                         |
| <b>40 05 23 23-0979 Gate Valves, Class 150</b> <small>(40 05 23 23-0978)</small>  |  |                         |
| 40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i>   | 724.77<br>27.57<br>-169.29<br>594.90     | 73.52                   |
| 40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i>   | 788.46<br>32.17<br>-182.23<br>640.36     | 76.59                   |
| 40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i>     | 973.37<br>43.35<br>-221.72<br>779.13     | 114.88                  |
| 40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i> | 1,225.18<br>49.95<br>-283.20<br>995.16   | 134.04                  |
| 40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i> | 1,384.47<br>63.27<br>-313.93<br>1,103.16 | 168.72                  |
| 40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i>     | 1,644.13<br>76.59<br>-371.51<br>1,305.50 | 204.19                  |
| 40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                 | 2,350.53<br>83.55<br>1,947.70            | 222.11                  |
| 40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                     | 2,649.01<br>97.77<br>2,183.71            | 260.40                  |
| 40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                     | 3,518.86<br>164.12<br>2,793.49           | 436.55                  |
| 40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                     | 5,857.47<br>207.53<br>4,855.76           | 551.44                  |
| 40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                     | 12,696.46<br>262.59<br>11,111.89         | 704.62                  |
| 40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                    | 17,872.50<br>321.68<br>15,792.24         | 857.79                  |
| 40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 300, Add</i>                                    | 26,867.64<br>389.91<br>24,033.86         | 1,041.61                |
| <b>40 05 23 23-0993 Globe Valves, Class 150</b> <small>(40 05 23 23-0978)</small>   |  |                         |
| 40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged.....<br><i>For Work In Restricted Working Space, Add</i><br><i>For Class 200, Deduct</i><br><i>For Class 300, Add</i>  | 985.92<br>27.57<br>-239.15<br>840.38     | 73.52                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged .....                                  | 1,091.94                  | 76.59                   |
| For Work In Restricted Working Space, Add   | 32.17                     |                         |
| For Class 200, Deduct   | -263.41                   |                         |
| For Class 300, Add  | 925.63                    |                         |
| 40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged .....                                    | 1,362.44                  | 114.88                  |
| For Work In Restricted Working Space, Add   | 43.35                     |                         |
| For Class 200, Deduct   | -325.80                   |                         |
| For Class 300, Add  | 1,144.85                  |                         |
| 40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged .....                                | 2,024.84                  | 168.72                  |
| For Work In Restricted Working Space, Add   | 63.27                     |                         |
| For Class 200, Deduct   | -485.23                   |                         |
| For Class 300, Add  | 1,705.10                  |                         |
| 40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged .....                                    | 2,470.91                  | 204.19                  |
| For Work In Restricted Working Space, Add   | 76.59                     |                         |
| For Class 200, Deduct   | -592.68                   |                         |
| For Class 300, Add  | 2,082.67                  |                         |
| 40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged .....                                | 4,942.96                  | 222.11                  |
| For Work In Restricted Working Space, Add   | 83.55                     |                         |
| For Class 300, Add  | 4,384.58                  |                         |
| 40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged .....                                    | 5,119.93                  | 260.40                  |
| For Work In Restricted Working Space, Add   | 97.77                     |                         |
| For Class 300, Add  | 4,506.38                  |                         |
| 40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged .....                                    | 6,118.47                  | 436.55                  |
| For Work In Restricted Working Space, Add   | 164.12                    |                         |
| For Class 300, Add  | 5,237.13                  |                         |
| 40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged .....                                    | 11,251.54                 | 551.44                  |
| For Work In Restricted Working Space, Add   | 207.53                    |                         |
| For Class 300, Add  | 9,926.18                  |                         |
| <b>40 05 23 23-1003 Check Valves, Class 150 (40 05 23 23-0978)</b>                                    |                           |                         |
| 40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged.....                                 | 2,251.10                  | 222.11                  |
| For Work In Restricted Working Space, Add   | 83.55                     |                         |
| For Class 300, Add  | 1,854.23                  |                         |
| 40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged.....                                     | 2,360.01                  | 260.40                  |
| For Work In Restricted Working Space, Add   | 97.77                     |                         |
| For Class 300, Add  | 1,912.05                  |                         |
| 40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged.....                                     | 3,712.72                  | 436.55                  |
| For Work In Restricted Working Space, Add   | 164.12                    |                         |
| For Class 300, Add  | 2,975.72                  |                         |
| 40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged.....                                     | 6,349.55                  | 551.44                  |
| For Work In Restricted Working Space, Add   | 207.53                    |                         |
| For Class 300, Add  | 5,318.31                  |                         |
| 40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged.....                                     | 11,113.17                 | 704.62                  |
| For Work In Restricted Working Space, Add   | 262.59                    |                         |
| For Class 300, Add  | 9,623.60                  |                         |
| <b>40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)</b>                      |                           |                         |
| 40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting.....                                   | 114.36                    | 44.46                   |
| For Work In Restricted Working Space, Add   | 29.65                     |                         |
| 40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting.....                                   | 151.17                    | 59.30                   |
| For Work In Restricted Working Space, Add   | 39.53                     |                         |
| 40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting.....                                     | 186.51                    | 73.52                   |
| For Work In Restricted Working Space, Add   | 49.02                     |                         |
| 40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting .....                                | 267.07                    | 104.04                  |
| For Work In Restricted Working Space, Add   | 69.36                     |                         |
| 40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting .....                                | 296.58                    | 117.33                  |
| For Work In Restricted Working Space, Add   | 78.22                     |                         |
| 40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting.....                                     | 372.04                    | 149.04                  |
| For Work In Restricted Working Space, Add   | 99.36                     |                         |
| 40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting .....                                | 647.55                    | 229.77                  |
| For Work In Restricted Working Space, Add   | 153.18                    |                         |
| 40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting.....                                     | 860.62                    | 293.32                  |
| For Work In Restricted Working Space, Add   | 195.55                    |                         |
| 40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting.....                                     | 1,125.81                  | 367.63                  |
| For Work In Restricted Working Space, Add   | 245.09                    |                         |
| <b>40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)</b>                                    |                           |                         |
| <b>40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b> |                           |                         |
| 40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....             | 96.32                     | 24.71                   |
| For Work In Restricted Working Space, Add   | 14.82                     |                         |
| 40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....             | 118.00                    | 32.95                   |
| For Work In Restricted Working Space, Add   | 19.76                     |                         |
| 40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....               | 140.08                    | 40.85                   |
| For Work In Restricted Working Space, Add   | 24.51                     |                         |
| 40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange .....          | 189.62                    | 57.81                   |
| For Work In Restricted Working Space, Add   | 34.68                     |                         |
| 40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange .....          | 204.39                    | 65.18                   |
| For Work In Restricted Working Space, Add   | 39.11                     |                         |
| 40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....               | 262.58                    | 82.79                   |
| For Work In Restricted Working Space, Add   | 49.68                     |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 390.82<br>76.59           | 127.60                  |
| 40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 467.69<br>97.77           | 260.40                  |
| 40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 602.39<br>122.54          | 204.19                  |
| <b>40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b>   |                           |                         |
| 40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 123.43<br>14.82           | 24.71                   |
| 40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 139.90<br>19.76           | 32.95                   |
| 40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 155.71<br>24.51           | 40.85                   |
| 40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 229.27<br>34.68           | 57.81                   |
| 40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 244.04<br>39.11           | 65.18                   |
| 40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 303.23<br>49.68           | 82.79                   |
| 40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 481.53<br>76.59           | 127.60                  |
| 40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 560.46<br>97.77           | 260.40                  |
| 40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 745.22<br>122.54          | 204.19                  |
| <b>40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>  |                           |                         |
| 40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>              | 128.24<br>24.40           | 36.59                   |
| 40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>              | 138.44<br>25.90           | 38.84                   |
| 40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 155.32<br>28.46           | 42.69                   |
| 40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>            | 190.05<br>31.05           | 46.56                   |
| 40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>            | 200.63<br>34.22           | 51.32                   |
| 40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 222.99<br>38.12           | 57.18                   |
| 40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>            | 307.41<br>48.74           | 73.11                   |
| 40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 348.69<br>57.07           | 85.60                   |
| 40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 448.94<br>68.38           | 102.57                  |
| 40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 666.33<br>85.43           | 128.14                  |
| 40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 1,082.46<br>130.84        | 196.26                  |
| 40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 1,535.37<br>174.46        | 261.68                  |
| 40 05 23 23-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 2,360.90<br>261.69        | 392.52                  |
| 40 05 23 23-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 2,952.12<br>305.30        | 457.94                  |
| 40 05 23 23-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 3,685.17<br>348.25        | 522.37                  |
| 40 05 23 23-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 4,520.33<br>436.14        | 654.21                  |
| 40 05 23 23-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 5,855.75<br>610.60        | 915.90                  |
| 40 05 23 23-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 8,321.50<br>872.28        | 1,308.42                |
| <b>40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>  |                           |                         |
| 40 05 23 23-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 160.57<br>24.40           | 36.59                   |
| 40 05 23 23-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 165.56<br>25.90           | 38.84                   |
| 40 05 23 23-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 174.12<br>28.46           | 42.69                   |
| 40 05 23 23-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 226.48<br>31.05           | 46.56                   |
| 40 05 23 23-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 237.06<br>34.22           | 51.32                   |
| 40 05 23 23-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 254.26<br>38.12           | 57.18                   |
| 40 05 23 23-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 361.59<br>48.74           | 73.11                   |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 409.14<br>57.07           | 85.60                   |
| 40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 590.67<br>68.38           | 102.57                  |
| 40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 826.86<br>85.43           | 128.14                  |
| 40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 1,482.76<br>130.84        | 196.26                  |
| 40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 2,063.91<br>174.46        | 261.68                  |
| 40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 3,032.28<br>261.69        | 392.52                  |
| 40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 4,013.44<br>305.30        | 457.94                  |
| 40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 4,954.37<br>348.25        | 522.37                  |
| 40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 6,327.65<br>436.14        | 654.21                  |
| 40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 8,168.13<br>610.60        | 915.90                  |
| 40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 11,892.84<br>872.28       | 1,308.42                |
| <b>40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>   |                           |                         |
| 40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>              | 204.34<br>48.79           | 73.18                   |
| 40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>              | 215.40<br>51.80           | 77.67                   |
| 40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 236.66<br>56.93           | 85.39                   |
| 40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>            | 270.56<br>62.09           | 93.13                   |
| 40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>            | 291.72<br>68.44           | 102.65                  |
| 40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 336.51<br>76.23           | 114.35                  |
| 40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>            | 440.68<br>97.49           | 146.23                  |
| 40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 504.54<br>114.14          | 171.19                  |
| 40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 624.76<br>136.76          | 205.13                  |
| 40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 827.06<br>170.87          | 256.29                  |
| 40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 1,359.14<br>261.69        | 392.52                  |
| 40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 1,918.82<br>348.91        | 523.36                  |
| 40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,861.04<br>523.37        | 785.04                  |
| <b>40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>   |                           |                         |
| 40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 225.19<br>48.79           | 73.18                   |
| 40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>   | 235.20<br>51.80           | 77.67                   |
| 40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 252.30<br>56.93           | 85.39                   |
| 40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 302.89<br>62.09           | 93.13                   |
| 40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 324.05<br>68.44           | 102.65                  |
| 40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 358.36<br>76.23           | 114.35                  |
| 40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 522.03<br>97.49           | 146.23                  |
| 40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 585.83<br>114.14          | 171.19                  |
| 40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 737.32<br>136.76          | 205.13                  |
| 40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,145.01<br>170.87        | 256.29                  |
| 40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,680.19<br>261.69        | 392.52                  |
| 40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,435.89<br>348.91        | 523.36                  |
| 40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,526.16<br>523.37        | 785.04                  |
| <b>40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)</b>   |                           |                         |



**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange                     | 77.03                     | 14.62                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.76                      |                         |
| 40 05 23 23-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange                     | 80.39                     | 15.52                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.36                     |                         |
| 40 05 23 23-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange                       | 86.97                     | 17.07                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.39                     |                         |
| 40 05 23 23-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange                   | 112.11                    | 19.00                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.67                     |                         |
| 40 05 23 23-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange                   | 126.94                    | 25.69                   |
| <i>For Work In Restricted Working Space, Add</i>  | 17.12                     |                         |
| 40 05 23 23-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange                       | 149.91                    | 28.51                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.01                     |                         |
| 40 05 23 23-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange                   | 204.46                    | 36.66                   |
| <i>For Work In Restricted Working Space, Add</i>  | 24.44                     |                         |
| 40 05 23 23-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange                       | 249.67                    | 51.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 34.25                     |                         |
| 40 05 23 23-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange                       | 379.95                    | 85.58                   |
| <i>For Work In Restricted Working Space, Add</i>  | 57.06                     |                         |
| 40 05 23 23-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange                       | 521.86                    | 110.06                  |
| <i>For Work In Restricted Working Space, Add</i>  | 73.37                     |                         |
| 40 05 23 23-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange                       | 779.08                    | 122.12                  |
| <i>For Work In Restricted Working Space, Add</i>  | 81.41                     |                         |
| 40 05 23 23-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 1,207.58                  | 146.54                  |
| <i>For Work In Restricted Working Space, Add</i>  | 97.70                     |                         |
| 40 05 23 23-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 1,600.67                  | 183.18                  |
| <i>For Work In Restricted Working Space, Add</i>  | 122.12                    |                         |
| 40 05 23 23-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 2,035.74                  | 228.97                  |
| <i>For Work In Restricted Working Space, Add</i>  | 152.65                    |                         |
| 40 05 23 23-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 2,634.61                  | 261.18                  |
| <i>For Work In Restricted Working Space, Add</i>  | 174.13                    |                         |
| 40 05 23 23-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 3,110.65                  | 327.10                  |
| <i>For Work In Restricted Working Space, Add</i>  | 218.07                    |                         |
| 40 05 23 23-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 4,126.41                  | 457.94                  |
| <i>For Work In Restricted Working Space, Add</i>  | 305.30                    |                         |
| 40 05 23 23-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange                      | 6,012.57                  | 654.21                  |
| <i>For Work In Restricted Working Space, Add</i>  | 436.14                    |                         |
| <b>40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)</b>               |                           |                         |
| 40 05 23 23-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange                     | 98.25                     | 14.62                   |
| <i>For Work In Restricted Working Space, Add</i>  | 9.76                      |                         |
| 40 05 23 23-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange                     | 100.24                    | 15.52                   |
| <i>For Work In Restricted Working Space, Add</i>  | 10.36                     |                         |
| 40 05 23 23-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange                       | 103.66                    | 17.07                   |
| <i>For Work In Restricted Working Space, Add</i>  | 11.39                     |                         |
| 40 05 23 23-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange                   | 131.90                    | 19.00                   |
| <i>For Work In Restricted Working Space, Add</i>  | 12.67                     |                         |
| 40 05 23 23-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange                   | 146.73                    | 25.69                   |
| <i>For Work In Restricted Working Space, Add</i>  | 17.12                     |                         |
| 40 05 23 23-1131 EA 2", 300#, Type 304 Stainless Steel Raised Face Blind Flange                       | 160.33                    | 28.51                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.01                     |                         |
| 40 05 23 23-1132 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange                   | 277.43                    | 36.66                   |
| <i>For Work In Restricted Working Space, Add</i>  | 24.44                     |                         |
| 40 05 23 23-1133 EA 3", 300#, Type 304 Stainless Steel Raised Face Blind Flange                       | 317.96                    | 51.36                   |
| <i>For Work In Restricted Working Space, Add</i>  | 34.25                     |                         |
| 40 05 23 23-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange                       | 465.40                    | 85.58                   |
| <i>For Work In Restricted Working Space, Add</i>  | 57.06                     |                         |
| 40 05 23 23-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange                       | 874.19                    | 110.06                  |
| <i>For Work In Restricted Working Space, Add</i>  | 73.37                     |                         |
| 40 05 23 23-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange                       | 1,200.22                  | 122.12                  |
| <i>For Work In Restricted Working Space, Add</i>  | 81.41                     |                         |
| 40 05 23 23-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 1,720.44                  | 146.54                  |
| <i>For Work In Restricted Working Space, Add</i>  | 97.70                     |                         |
| 40 05 23 23-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 2,387.73                  | 183.18                  |
| <i>For Work In Restricted Working Space, Add</i>  | 122.12                    |                         |
| 40 05 23 23-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 3,348.46                  | 228.97                  |
| <i>For Work In Restricted Working Space, Add</i>  | 152.65                    |                         |
| 40 05 23 23-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 4,291.97                  | 261.18                  |
| <i>For Work In Restricted Working Space, Add</i>  | 174.13                    |                         |
| 40 05 23 23-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 5,604.95                  | 327.10                  |
| <i>For Work In Restricted Working Space, Add</i>  | 218.07                    |                         |
| 40 05 23 23-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 7,085.76                  | 457.94                  |
| <i>For Work In Restricted Working Space, Add</i>  | 305.30                    |                         |
| 40 05 23 23-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange                      | 10,879.97                 | 654.21                  |
| <i>For Work In Restricted Working Space, Add</i>  | 436.14                    |                         |
| <b>40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b> |                           |                         |
| 40 05 23 23-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange                  | 115.12                    | 24.71                   |
| <i>For Work In Restricted Working Space, Add</i>  | 14.82                     |                         |
| 40 05 23 23-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange                  | 142.01                    | 32.95                   |
| <i>For Work In Restricted Working Space, Add</i>  | 19.76                     |                         |
| 40 05 23 23-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange                    | 162.98                    | 40.85                   |
| <i>For Work In Restricted Working Space, Add</i>  | 24.51                     |                         |



| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| 40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange .....<br><i>For Work In Restricted Working Space, Add</i> | 224.00<br>34.68           | 57.81                   |
| 40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange .....<br><i>For Work In Restricted Working Space, Add</i> | 238.77<br>39.11           | 65.18                   |
| 40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 300.12<br>49.68           | 82.79                   |
| 40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange .....<br><i>For Work In Restricted Working Space, Add</i> | 445.05<br>76.59           | 127.60                  |
| 40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 537.56<br>97.77           | 260.40                  |
| 40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 700.37<br>122.54          | 204.19                  |
| <br><b>40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b>  |                           |                         |
| 40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 150.55<br>14.82           | 24.71                   |
| 40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 167.02<br>19.76           | 32.95                   |
| 40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 182.83<br>24.51           | 40.85                   |
| 40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange .....<br><i>For Work In Restricted Working Space, Add</i> | 281.39<br>34.68           | 57.81                   |
| 40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange .....<br><i>For Work In Restricted Working Space, Add</i> | 296.16<br>39.11           | 65.18                   |
| 40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 349.08<br>49.68           | 82.79                   |
| 40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange .....<br><i>For Work In Restricted Working Space, Add</i> | 584.73<br>76.59           | 127.60                  |
| 40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 665.76<br>97.77           | 260.40                  |
| 40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 913.02<br>122.54          | 204.19                  |
| <br><b>40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>                                       |                           |                         |
| 40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 152.20<br>24.40           | 36.59                   |
| 40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>               | 162.45<br>25.90           | 38.84                   |
| 40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                 | 182.44<br>28.46           | 42.69                   |
| 40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>             | 225.48<br>31.05           | 46.56                   |
| 40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>             | 236.06<br>34.22           | 51.32                   |
| 40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                 | 259.47<br>38.12           | 57.18                   |
| 40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>             | 368.86<br>48.74           | 73.11                   |
| 40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                 | 403.92<br>57.07           | 85.60                   |
| 40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                 | 542.76<br>68.38           | 102.57                  |
| 40 05 23 23-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                 | 828.96<br>85.43           | 128.14                  |
| 40 05 23 23-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,333.71<br>130.84        | 196.26                  |
| 40 05 23 23-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 1,954.46<br>174.46        | 261.68                  |
| 40 05 23 23-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 2,914.50<br>261.69        | 392.52                  |
| 40 05 23 23-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 3,410.62<br>305.30        | 457.94                  |
| 40 05 23 23-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 4,283.47<br>348.25        | 522.37                  |
| 40 05 23 23-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 5,247.15<br>436.14        | 654.21                  |
| 40 05 23 23-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 6,761.25<br>610.60        | 915.90                  |
| 40 05 23 23-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>                | 9,604.68<br>872.28        | 1,308.42                |
| <br><b>40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>                                       |                           |                         |
| 40 05 23 23-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 191.84<br>24.40           | 36.59                   |
| 40 05 23 23-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 196.83<br>25.90           | 38.84                   |
| 40 05 23 23-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>      | 205.39<br>28.46           | 42.69                   |
| 40 05 23 23-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>  | 269.28<br>31.05           | 46.56                   |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 279.86<br>34.22           | 51.32                   |
| 40 05 23 23-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 306.38<br>38.12           | 57.18                   |
| 40 05 23 23-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i> | 451.25<br>48.74           | 73.11                   |
| 40 05 23 23-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 493.59<br>57.07           | 85.60                   |
| 40 05 23 23-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 747.04<br>68.38           | 102.57                  |
| 40 05 23 23-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,213.62<br>85.43         | 128.14                  |
| 40 05 23 23-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>     | 1,877.89<br>130.84        | 196.26                  |
| 40 05 23 23-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 2,703.97<br>174.46        | 261.68                  |
| 40 05 23 23-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 3,972.54<br>261.69        | 392.52                  |
| 40 05 23 23-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 5,381.02<br>305.30        | 457.94                  |
| 40 05 23 23-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 6,686.14<br>348.25        | 522.37                  |
| 40 05 23 23-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 8,552.58<br>436.14        | 654.21                  |
| 40 05 23 23-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 10,967.79<br>610.60       | 915.90                  |
| 40 05 23 23-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange.....<br><i>For Work In Restricted Working Space, Add</i>    | 15,994.65<br>872.28       | 1,308.42                |
| <b>40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>   |                           |                         |
| 40 05 23 23-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>               | 216.87<br>48.79           | 73.18                   |
| 40 05 23 23-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>               | 234.20<br>51.80           | 77.67                   |
| 40 05 23 23-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>                 | 258.19<br>56.93           | 85.39                   |
| 40 05 23 23-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>             | 349.11<br>62.09           | 93.13                   |
| 40 05 23 23-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>             | 316.73<br>68.44           | 102.65                  |
| 40 05 23 23-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>                 | 342.72<br>76.23           | 114.35                  |
| 40 05 23 23-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>             | 436.52<br>97.49           | 146.23                  |
| 40 05 23 23-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>                 | 539.98<br>114.14          | 171.19                  |
| 40 05 23 23-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>                 | 699.78<br>136.76          | 205.13                  |
| 40 05 23 23-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>                 | 938.57<br>170.87          | 256.29                  |
| 40 05 23 23-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>                 | 1,589.48<br>261.69        | 392.52                  |
| 40 05 23 23-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>     | 2,233.66<br>348.91        | 523.36                  |
| 40 05 23 23-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>     | 3,282.18<br>523.37        | 785.04                  |
| <b>40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>   |                           |                         |
| 40 05 23 23-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>    | 246.04<br>48.79           | 73.18                   |
| 40 05 23 23-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>    | 256.05<br>51.80           | 77.67                   |
| 40 05 23 23-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>      | 273.15<br>56.93           | 85.39                   |
| 40 05 23 23-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>  | 343.53<br>62.09           | 93.13                   |
| 40 05 23 23-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>  | 364.69<br>68.44           | 102.65                  |
| 40 05 23 23-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>      | 396.79<br>76.23           | 114.35                  |
| 40 05 23 23-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>  | 612.69<br>97.49           | 146.23                  |
| 40 05 23 23-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>      | 678.60<br>114.14          | 171.19                  |
| 40 05 23 23-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>      | 881.16<br>136.76          | 205.13                  |
| 40 05 23 23-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>      | 1,354.55<br>170.87        | 256.29                  |
| 40 05 23 23-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>      | 1,896.00<br>261.69        | 392.52                  |
| 40 05 23 23-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange .....<br><i>For Work In Restricted Working Space, Add</i>     | 3,138.49<br>348.91        | 523.36                  |



| MINOR<br>CSI UOM DESCRIPTION  | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange<br><i>For Work In Restricted Working Space, Add</i>   | 4,145.37<br>523.37        | 785.04                  |
| <b>40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges</b> <small>(40 05 23 23-1019)</small>                                  |                           |                         |
| 40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>   | 86.77<br>9.76             | 14.62                   |
| 40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>   | 98.13<br>10.36            | 15.52                   |
| 40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 110.92<br>11.39           | 17.07                   |
| 40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i> | 130.85<br>12.67           | 19.00                   |
| 40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i> | 145.68<br>17.12           | 25.69                   |
| 40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 181.18<br>19.01           | 28.51                   |
| 40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i> | 253.48<br>24.44           | 36.66                   |
| 40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 303.90<br>34.25           | 51.36                   |
| 40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 471.66<br>57.06           | 85.58                   |
| 40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 668.86<br>73.37           | 110.06                  |
| 40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 1,130.35<br>81.41         | 122.12                  |
| 40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 1,484.88<br>97.70         | 146.54                  |
| 40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 2,400.26<br>122.12        | 183.18                  |
| 40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 2,854.37<br>152.65        | 228.97                  |
| 40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 3,735.94<br>174.13        | 261.18                  |
| 40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 4,388.66<br>218.07        | 327.10                  |
| 40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 5,793.13<br>305.30        | 457.94                  |
| 40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 8,456.70<br>436.14        | 654.21                  |
| <b>40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges</b> <small>(40 05 23 23-1019)</small>                                  |                           |                         |
| 40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>   | 133.68<br>9.76            | 14.62                   |
| 40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>   | 135.67<br>10.36           | 15.52                   |
| 40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 139.09<br>11.39           | 17.07                   |
| 40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i> | 208.03<br>12.67           | 19.00                   |
| 40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i> | 222.86<br>17.12           | 25.69                   |
| 40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 246.83<br>19.01           | 28.51                   |
| 40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i> | 410.90<br>24.44           | 36.66                   |
| 40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 454.00<br>34.25           | 51.36                   |
| 40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 694.74<br>57.06           | 85.58                   |
| 40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 1,265.17<br>73.37         | 110.06                  |
| 40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>     | 1,604.72<br>81.41         | 122.12                  |
| 40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 2,896.36<br>97.70         | 146.54                  |
| 40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 3,531.32<br>122.12        | 183.18                  |
| 40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 5,104.96<br>152.65        | 228.97                  |
| 40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 6,587.80<br>174.13        | 261.18                  |
| 40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 8,622.33<br>218.07        | 327.10                  |
| 40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 10,839.27<br>305.30       | 457.94                  |
| 40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange<br><i>For Work In Restricted Working Space, Add</i>    | 16,710.66<br>436.14       | 654.21                  |
| <b>40 05 23 23-1268 Type 316 Seamless Annealed Tubing</b> <small>(40 05 23 23)</small>  |                           |                         |
| Note: For high pressure air (8000 PSIG working pressure).   |                           |                         |

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

| MINOR<br>CSI UOM DESCRIPTION   | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|--|---------------------------|-------------------------|
| <b>40 05 23 23-1269</b> Type 316 Seamless Annealed Tubing <small>(40 05 23 23-1268)</small>                                  |                           |                         |
| 40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness .....             | 28.16                     |                         |
| 40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness .....             | 34.97                     |                         |
| 40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness .....             | 42.25                     |                         |
| <b>40 05 23 23-1273</b> Type 316 Seamless Annealed Tubing Fittings <small>(40 05 23 23-1268)</small>                         |                           |                         |
| Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.  |                           |                         |
| 40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules .....  | 92.99                     |                         |
| 40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....      | 102.08                    |                         |
| 40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules .....        | 156.81                    |                         |
| 40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....                     | 76.42                     |                         |
| 40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....                       | 126.27                    |                         |
| 40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules .....  | 97.39                     |                         |
| 40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....      | 117.63                    |                         |
| 40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules ..... | 180.89                    |                         |
| 40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....                     | 114.49                    |                         |
| 40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....                       | 177.90                    |                         |
| 40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules .....  | 114.42                    |                         |
| 40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....      | 146.61                    |                         |
| 40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules ..... | 241.05                    |                         |
| 40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....                     | 198.01                    |                         |
| 40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....                       | 244.85                    |                         |
| <b>40 05 23 23-1289</b> Valves For High Pressure Air (5,000 PSIG) <small>(40 05 23 23-1268)</small>                          |                           |                         |
| <b>40 05 23 23-1290</b> Needle Valves <small>(40 05 23 23-1289)</small>  |                           |                         |
| 40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge .....                     | 431.74                    |                         |
| 40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge .....                     | 681.71                    |                         |
| <b>40 05 23 23-1293</b> Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG <small>(40 05 23 23-1289)</small>              |                           |                         |
| 40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction .....                        | 413.03                    |                         |
| <b>40 05 23 23-1295</b> Other Valves Working Pressure 6,000 PSI <small>(40 05 23 23-1289)</small>                            |                           |                         |
| 40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG .....                   | 1,690.33                  |                         |
| 40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back .....                                  | 429.34                    |                         |
| 40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element .....                  | 86.23                     |                         |

**END OF SECTION 40**



| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 41 Material Processing and Handling Equipment

### 41 01 Operation and Maintenance of Material Processing and Handling Equipment<sup>(41)</sup>

#### 41 01 20 Operation and Maintenance of Piece Material Handling Equipment<sup>(41 01)</sup>

##### 41 01 20 13 Operation And Maintenance Of Hoists Or Cranes<sup>(41 01 20)</sup>

##### 41 01 20 13-0001 Maintenance<sup>(41 01 20 13)</sup>

|                  |    |   |        |  |
|------------------|----|---|--------|--|
| 41 01 20 13-0002 | EA | Regular Inspection.....                   | 440.69 |  |
| 41 01 20 13-0003 | HR | Hoist Or Crane Servicing, Labor Only..... | 131.90 |  |
| 41 01 20 13-0004 | MO | Hoist Or Crane Maintenance Contract.....  | 919.97 |  |

### 41 20 Piece Material Handling Equipment<sup>(41)</sup>

#### 41 22 Cranes and Hoists<sup>(41 20)</sup>

##### 41 22 23 Hoists<sup>(41 22)</sup>

##### 41 22 23 13 Fixed Hoists<sup>(41 22 23)</sup>

##### 41 22 23 13-0001 Air-Powered Chain Hoists<sup>(41 22 23 13)</sup>

Note: Excludes beam.

|                  |    |  |           |          |
|------------------|----|--|-----------|----------|
| 41 22 23 13-0002 | EA | 500 LB Capacity, Air-Powered Chain Hoist.....    | 6,966.31  | 410.39   |
| 41 22 23 13-0003 | EA | 1,000 LB Capacity, Air-Powered Chain Hoist.....  | 7,047.12  | 410.39   |
| 41 22 23 13-0004 | EA | 2,000 LB Capacity, Air-Powered Chain Hoist.....  | 8,490.19  | 410.39   |
| 41 22 23 13-0005 | EA | 4,000 LB Capacity, Air-Powered Chain Hoist.....  | 10,722.85 | 547.19   |
| 41 22 23 13-0006 | EA | 6,000 LB Capacity, Air-Powered Chain Hoist.....  | 13,534.36 | 683.98   |
| 41 22 23 13-0007 | EA | 8,000 LB Capacity, Air-Powered Chain Hoist.....  | 15,938.01 | 1,005.19 |
| 41 22 23 13-0008 | EA | 10,000 LB Capacity, Air-Powered Chain Hoist..... | 18,403.88 | 1,214.07 |
| 41 22 23 13-0009 | EA | 12,000 LB Capacity, Air-Powered Chain Hoist..... | 20,620.22 | 1,214.07 |

##### 41 22 23 13-0010 Electric Hoists<sup>(41 22 23 13)</sup>

##### 41 22 23 13-0011 Electric Industrial Chain Hoists<sup>(41 22 23 13-0010)</sup>

Note: Includes 20' of chain. Excludes beams.

|                  |    |  |           |        |
|------------------|----|--|-----------|--------|
| 41 22 23 13-0012 | EA | 500 LB Capacity, Electric Industrial Chain Hoist.....    | 3,277.32  | 396.71 |
|                  |    | For DC Electrical Operated, Add                          | 620.37    |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0013 | EA | 1,000 LB Capacity, Electric Industrial Chain Hoist.....  | 3,413.55  | 396.71 |
|                  |    | For DC Electrical Operated, Add                          | 653.89    |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0014 | EA | 2,000 LB Capacity, Electric Industrial Chain Hoist.....  | 3,758.18  | 396.71 |
|                  |    | For DC Electrical Operated, Add                          | 736.78    |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0015 | EA | 3,000 LB Capacity, Electric Industrial Chain Hoist.....  | 5,584.69  | 410.39 |
|                  |    | For DC Electrical Operated, Add                          | 1,184.74  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0016 | EA | 4,000 LB Capacity, Electric Industrial Chain Hoist.....  | 4,839.99  | 410.39 |
|                  |    | For DC Electrical Operated, Add                          | 996.13    |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0017 | EA | 5,000 LB Capacity, Electric Industrial Chain Hoist.....  | 6,851.25  | 424.07 |
|                  |    | For DC Electrical Operated, Add                          | 1,487.93  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0018 | EA | 6,000 LB Capacity, Electric Industrial Chain Hoist.....  | 6,246.95  | 465.11 |
|                  |    | For DC Electrical Operated, Add                          | 1,298.58  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0019 | EA | 7,500 LB Capacity, Electric Industrial Chain Hoist.....  | 7,678.06  | 574.54 |
|                  |    | For DC Electrical Operated, Add                          | 1,649.65  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0020 | EA | 10,000 LB Capacity, Electric Industrial Chain Hoist..... | 9,014.65  | 583.97 |
|                  |    | For DC Electrical Operated, Add                          | 2,001.10  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0021 | EA | 15,000 LB Capacity, Electric Industrial Chain Hoist..... | 14,433.18 | 609.36 |
|                  |    | For DC Electrical Operated, Add                          | 3,303.35  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0022 | EA | 20,000 LB Capacity, Electric Industrial Chain Hoist..... | 17,259.20 | 634.75 |
|                  |    | For DC Electrical Operated, Add                          | 3,996.66  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0023 | EA | 25,000 LB Capacity, Electric Industrial Chain Hoist..... | 23,804.45 | 660.14 |
|                  |    | For DC Electrical Operated, Add                          | 5,619.42  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |
| 41 22 23 13-0024 | EA | 30,000 LB Capacity, Electric Industrial Chain Hoist..... | 30,424.53 | 723.62 |
|                  |    | For DC Electrical Operated, Add                          | 7,242.55  |        |
|                  |    | For Each LF Copper Conductor Bar, Add                    | 10.50     |        |

**41 Material Processing and Handling Equipment****41 20 Piece Material Handling Equipment****41 22 Cranes and Hoists**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

| MINOR<br>CSI UOM DESCRIPTION                                    | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|---|---------------------------|-------------------------|
| 41 22 23 13-0025 Hand Chain Hoists <small>(41 22 23 13)</small> |                           |                         |
| 41 22 23 13-0026 EA 1,000 LB Capacity, Hand Chain Hoist .....   | 1,815.10                  | 165.59                  |
| 41 22 23 13-0027 EA 2,000 LB Capacity, Hand Chain Hoist .....   | 2,137.40                  | 167.86                  |
| 41 22 23 13-0028 EA 3,000 LB Capacity, Hand Chain Hoist .....   | 2,867.34                  | 175.80                  |
| 41 22 23 13-0029 EA 4,000 LB Capacity, Hand Chain Hoist .....   | 3,226.51                  | 178.07                  |
| 41 22 23 13-0030 EA 5,000 LB Capacity, Hand Chain Hoist .....   | 3,892.63                  | 187.14                  |
| 41 22 23 13-0031 EA 6,000 LB Capacity, Hand Chain Hoist .....   | 4,359.78                  | 218.89                  |
| 41 22 23 13-0032 EA 10,000 LB Capacity, Hand Chain Hoist.....   | 6,041.77                  | 225.71                  |
| 41 22 23 13-0033 EA 16,000 LB Capacity, Hand Chain Hoist.....   | 7,888.83                  | 272.21                  |
| 41 22 23 13-0034 EA 20,000 LB Capacity, Hand Chain Hoist.....   | 9,633.84                  | 284.68                  |
| 41 22 23 13-0035 EA 30,000 LB Capacity, Hand Chain Hoist.....   | 16,971.55                 | 325.51                  |

**END OF SECTION 41**



|   |              |           |
|---|--------------|-----------|
| <b>Process Gas and Liquid Handling, Purification, and Storage Equipment</b> | <b>43</b>    | <b>43</b> |
| <b>Liquid Handling Equipment</b>  | <b>43 20</b> |           |
| <b>Dry Location Liquid Pumps</b>  | <b>43 23</b> |           |

| MINOR<br>CSI UOM DESCRIPTION | TOTAL DIRECT<br>UNIT COST | DEMOLITION<br>UNIT COST |
|------------------------------|---------------------------|-------------------------|
|------------------------------|---------------------------|-------------------------|

## 43 Process Gas and Liquid Handling, Purification, and Storage Equipment

### 43 20 Liquid Handling Equipment <sup>(43)</sup>

#### 43 23 Dry Location Liquid Pumps <sup>(43 20)</sup>

##### 43 23 78 Controlled Volume Horizontal Reciprocating Pumps <sup>(43 23)</sup>

##### 43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps <sup>(43 23 78)</sup>

##### 43 23 78 31-0001 Diaphragm Pump <sup>(43 23 78 31)</sup>

43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI..... 4,877.24

#### 43 24 Suspended Liquid Pumps <sup>(43 20)</sup>

##### 43 24 41 Archimedes Screw Pumps <sup>(43 24)</sup>

##### 43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps <sup>(43 24 41)</sup>

##### 43 24 41 23-0001 Positive Displacement Pump <sup>(43 24 41 23)</sup>

43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing..... 4,025.12

### 43 40 Gas and Liquid Storage <sup>(43)</sup>

#### 43 42 Pressurized Tanks And Vessels <sup>(43 40)</sup>

##### 43 42 41 Metallic Specialty Pressure Tanks <sup>(43 42)</sup>

##### 43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls <sup>(43 42 41)</sup>

|                  |    |   |          |        |
|------------------|----|---|----------|--------|
| 43 42 41 00-0002 | EA | 250 Gallon Aboveground LP Gas Storage Tank.....   | 2,135.61 | 135.24 |
| 43 42 41 00-0003 | EA | 500 Gallon Aboveground LP Gas Storage Tank.....   | 3,951.15 | 202.86 |
| 43 42 41 00-0004 | EA | 1,000 Gallon Aboveground LP Gas Storage Tank..... | 5,658.50 | 216.38 |

END OF SECTION 43



**43 Process Gas and Liquid Handling, Purification, and Storage Equipment**

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**THIS PAGE INTENTIONALLY LEFT BLANK**

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